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Automated Report

Technical Report for

Arcadis-US, Inc

Castner Firing Range; Ft Bliss, TX

06261038.0001.0400

SGS Accutest Job Number: FA41143

Sampling Date: 02/07/17

Report to:

(b) (6)

[redacted]

Total number of pages in report: 215

(b) (6)

[redacted]

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

(b) (6)

[redacted]

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(L-A-B L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AK, AR, GA, IA, KY, MA, NV, OK, OR, UT, WA

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Test results relate only to samples analyzed.

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Sample Summary

Arcadis-US, Inc

Job No: FA41143

Castner Firing Range; Ft Bliss, TX
Project No: 06261038.0001.0400

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA41143-1	02/07/17	09:55	GC	02/10/17	SO	Soil	FTBL-SB-01-0-0.5-020717 QA

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Arcadis-US, Inc **Job No:** FA41143

Site: Castner Firing Range; Ft Bliss, TX **Report Date:** 2/24/2017 10:38:06

1 Sample(s) were collected on 02/07/2017 and were received at SGS Accutest Southeast (SASE) on 02/10/2017 properly preserved, at 3.9 Deg. C and intact. These Samples received an SASE job number of FA41143. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GC By Method SW846 8330B

Matrix: SO **Batch ID:** OP63860

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA41143-1MS, FA41143-1MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for Tetryl are outside control limits. % Recovery was above upper control limit, but sample was ND for this compound.

LCS Recovery(s) for Tetryl are outside control limits.

Matrix Spike/Matrix Spike Duplicate Recovery(s) for Tetryl are outside control limits. Probable cause is due to matrix interference. % RPD was within control limits in MS/MSD.

FA41143-1 for Tetryl: Associated LCS and BS outside control limits.

Metals By Method SW846 6010C

Matrix: SO **Batch ID:** MP31641

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA41143-1DUP, FA41143-1MS, FA41143-1MSD, FA41143-1PS, FA41143-1SDL were used as the QC samples for metals.

Matrix Spike Recovery(s) for Antimony, Copper are outside control limits. Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

Matrix Spike Duplicate Recovery(s) for Copper, Lead, Zinc, Antimony are outside control limits. Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

RPD(s) for Duplicate for Copper are outside control limits for sample MP31641-D1. High RPD due to possible sample non-homogeneity.

RPD(s) for MSD for Antimony, Arsenic, Beryllium, Nickel are outside control limits for sample MP31641-S2. High RPD due to possible sample non-homogeneity.

RPD(s) for Serial Dilution for Antimony, Arsenic, Beryllium, Nickel, Zinc are outside control limits for sample MP31641-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

MP31641-SD1 for Nickel: Serial dilution indicates possible matrix interference.

MP31641-SD1 for Zinc: Serial dilution indicates possible matrix interference.

MP31641-PS1 for Copper: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP31641-PS1 for Lead: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

FA41143-1 for Lead: Sample dilution required due to difficult matrix.

FA41143-1 for Nickel: Sample dilution required due to difficult matrix.

FA41143-1 for Antimony: Sample dilution required due to difficult matrix.

FA41143-1 for Copper: Sample dilution required due to difficult matrix.

FA41143-1 for Beryllium: Sample dilution required due to difficult matrix.

FA41143-1 for Arsenic: Sample dilution required due to difficult matrix.

FA41143-1 for Zinc: Sample dilution required due to difficult matrix.

Wet Chemistry By Method SM19 2540G

Matrix: SO **Batch ID:** GN74054

Sample(s) FA41035-1DUP were used as the QC samples for Solids, Percent.

SGS Accutest (SASE) certifies that this report meets the project requirements for analytical data produced for the samples as received at SASE and as stated on the COC. SASE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SASE Quality Manual except as noted above. This report is to be used in its entirety. SASE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

(b) (6) [redacted]

Date February 24, 2017

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual Integrations
GGG2500-CC2500	GCSEMI	GG060876.D	1,3-Dinitrobenzene, PETN
GGG2500-ECC2500	GCSEMI	GG060885.D	1,3-Dinitrobenzene, 2,6-Dinitrotoluene, 2-amino-4,6-Dinitrotoluene, 3,5-Dinitroaniline, 4-amino-2,6-Dinitrotoluene, m-Nitrotoluene, o-Nitrotoluene, p-Nitrotoluene, PETN
GGG2500-IC2500	GCSEMI	GG060857.D	1,3,5-Trinitrobenzene, 2,6-Dinitrotoluene, 2-amino-4,6-Dinitrotoluene, 3,4-Dinitrotoluene, 3,5-Dinitroaniline, 4-amino-2,6-Dinitrotoluene, DNX, HMX, m-Nitrotoluene, MNX, Nitroglycerine, o-Nitrotoluene, p-Nitrotoluene, PETN, Tetryl, TNX
GGG2500-IC2500	GCSEMI	GG060858.D	2-amino-4,6-Dinitrotoluene, 3,4-Dinitrotoluene, DNX, HMX, m-Nitrotoluene, MNX, Nitroglycerine, p-Nitrotoluene, PETN, TNX
GGG2500-IC2500	GCSEMI	GG060859.D	2-amino-4,6-Dinitrotoluene, DNX, HMX, m-Nitrotoluene, MNX, Nitroglycerine, PETN, TNX
GGG2500-IC2500	GCSEMI	GG060860.D	2-amino-4,6-Dinitrotoluene, DNX, HMX, m-Nitrotoluene, Nitroglycerine, PETN, TNX
GGG2500-IC2500	GCSEMI	GG060862.D	2-amino-4,6-Dinitrotoluene, PETN
GGG2500-IC2500	GCSEMI	GG060863.D	PETN
GGG2500-ICC2500	GCSEMI	GG060861.D	2-amino-4,6-Dinitrotoluene, m-Nitrotoluene, PETN, TNX
GGG2500-ICV2500	GCSEMI	GG060864.D	DNX, HMX, PETN
GGG2501-CC2500	GCSEMI	GG060886.D	1,3-Dinitrobenzene, PETN
GGG2501-ECC2500	GCSEMI	GG060894.D	1,3-Dinitrobenzene, PETN
GGG2502-CC2500	GCSEMI	GG060895.D	1,3-Dinitrobenzene, PETN
GGG2508-CC2500	GCSEMI	GG060986.D	PETN
GGG2508-ECC2500	GCSEMI	GG060993.D	PETN
GPP2066-CC2066	GCSEMI	PP381221.D	PETN
GPP2066-ECC2066	GCSEMI	PP381224.D	PETN
GPP2066-IC2066	GCSEMI	PP381202.D	1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 2,4,6-Trinitrotoluene, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-amino-4,6-Dinitrotoluene, 3,4-Dinitrotoluene, 3,5-Dinitroaniline, 4-amino-2,6-Dinitrotoluene, DNX, HMX, m-Nitrotoluene, MNX, Nitrobenzene, o-Nitrotoluene, PETN, RDX, Tetryl, TNX
GPP2066-IC2066	GCSEMI	PP381203.D	1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, 2,4,6-Trinitrotoluene, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-amino-4,6-Dinitrotoluene, 3,4-Dinitrotoluene, 3,5-Dinitroaniline, 4-amino-2,6-Dinitrotoluene, DNX, HMX, m-Nitrotoluene, MNX, Nitrobenzene, o-Nitrotoluene, p-Nitrotoluene, PETN, RDX, Tetryl, TNX

Manual Integration Summary

GPP2066-IC2066	GCSEMI	PP381204.D	2,4,6-Trinitrotoluene, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-amino-4,6-Dinitrotoluene, 3,4-Dinitrotoluene, 4-amino-2,6-Dinitrotoluene, HMX, m-Nitrotoluene, Nitrobenzene, o-Nitrotoluene, p-Nitrotoluene, PETN, RDX, Tetryl, TNX
GPP2066-IC2066	GCSEMI	PP381205.D	2,4,6-Trinitrotoluene, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-amino-4,6-Dinitrotoluene, 3,4-Dinitrotoluene, 4-amino-2,6-Dinitrotoluene, HMX, PETN, Tetryl, TNX
GPP2066-IC2066	GCSEMI	PP381207.D	PETN
GPP2066-IC2066	GCSEMI	PP381208.D	DNX, HMX, PETN, TNX
GPP2066-ICC2066	GCSEMI	PP381206.D	2,4,6-Trinitrotoluene, 2-amino-4,6-Dinitrotoluene, HMX, m-Nitrotoluene, Nitroglycerine, PETN, Tetryl,
GPP2066-ICV2066	GCSEMI	PP381209.D	2,4,6-Trinitrotoluene, 2-amino-4,6-Dinitrotoluene, 4-amino-2,6-Dinitrotoluene, PETN, Tetryl
GPP2067-CC2066	GCSEMI	PP381226.D	PETN
GPP2067-ECC2066	GCSEMI	PP381229.D	PETN
GPP2068-CC2066	GCSEMI	PP381231.D	PETN
GPP2068-CC2066	GCSEMI	PP381239.D	PETN
GPP2068-ECC2066	GCSEMI	PP381251.D	PETN
GPP2069-CC2066	GCSEMI	PP381253.D	PETN, RDX
GPP2069-CC2066	GCSEMI	PP381265.D	m-Nitrotoluene, p-Nitrotoluene, PETN
GPP2069-ECC2066	GCSEMI	PP381270.D	PETN
GPP2070-CC2066	GCSEMI	PP381275.D	PETN
GPP2070-CC2066	GCSEMI	PP381282.D	PETN
GPP2070-CC2066	GCSEMI	PP381293.D	PETN
GPP2070-ECC2066	GCSEMI	PP381300.D	PETN
GPP2071-CC2066	GCSEMI	PP381302.D	HMX, PETN, TNX
GPP2071-CC2066	GCSEMI	PP381311.D	PETN
GPP2071-ECC2066	GCSEMI	PP381322.D	PETN
GPP2072-CC2066	GCSEMI	PP381324.D	PETN, TNX
GPP2072-ECC2066	GCSEMI	PP381335.D	PETN
GPP2073-CC2066	GCSEMI	PP381337.D	HMX, PETN, TNX
GPP2073-CC2066	GCSEMI	PP381348.D	PETN, TNX
GPP2073-ECC2066	GCSEMI	PP381361.D	PETN
GPP2074-CC2066	GCSEMI	PP381363.D	PETN
GPP2074-CC2066	GCSEMI	PP381374.D	PETN, TNX
GPP2074-ECC2066	GCSEMI	PP381377.D	PETN
OP63860-BS	GCSEMI	PP381328.D	HMX, PETN
OP63860-MB	GCSEMI	GG060989.D	3,4-Dinitrotoluene
OP63860-MS	GCSEMI	PP381332.D	HMX, PETN
OP63860-MSD	GCSEMI	PP381333.D	HMX, PETN
OP63860-PT1	GCSEMI	PP381334.D	2,4,6-Trinitrotoluene, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-amino-4,6-Dinitrotoluene, 4-amino-2,6-Dinitrotoluene, HMX, Nitroglycerine, o-Nitrotoluene, PETN, RDX, Tetryl

53 Manual Integrations were found for FA41143

Summary of Hits

Job Number: FA41143
Account: Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX
Collected: 02/07/17

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FA41143-1	**FTBL-SB-01-0-0.5-020717 QA**					
Antimony [a]		0.65 J	4.3	1.1	mg/kg	SW846 6010C
Arsenic [a]		5.0	2.1	1.1	mg/kg	SW846 6010C
Beryllium [a]		0.80 J	1.1	0.21	mg/kg	SW846 6010C
Copper [a]		42.0	5.3	0.43	mg/kg	SW846 6010C
Lead [a]		50.4	4.3	0.86	mg/kg	SW846 6010C
Nickel [a]		7.5 J	8.6	0.21	mg/kg	SW846 6010C
Zinc [a]		47.1	4.3	1.1	mg/kg	SW846 6010C

(a) Sample dilution required due to difficult matrix.

Sample Results

Report of Analysis

SGS Accutest

Report of Analysis

Client Sample ID: FTBL-SB-01-0-0.5-020717 QA
Lab Sample ID: FA41143-1 **Date Sampled:** 02/07/17
Matrix: SO - Soil **Date Received:** 02/10/17
Method: SW846 8330B SW846 8330B **Percent Solids:** 95.8
Project: Castner Firing Range; Ft Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP381331.D	1	02/20/17	EM	02/17/17	OP63860	GPP2072
Run #2							

	Initial Weight	Final Volume
Run #1	10.0 g	50.0 ml
Run #2		

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
2691-41-0	HMX	75 U	100	75	51	ug/kg	
121-82-4	RDX	75 U	100	75	50	ug/kg	
99-65-0	1,3-Dinitrobenzene	75 U	100	75	50	ug/kg	
606-20-2	2,6-Dinitrotoluene	75 U	100	75	50	ug/kg	
121-14-2	2,4-Dinitrotoluene	75 U	100	75	50	ug/kg	
35572-78-2	2-amino-4,6-Dinitrotoluene	75 U	100	75	50	ug/kg	
19406-51-0	4-amino-2,6-Dinitrotoluene	75 U	100	75	51	ug/kg	
98-95-3	Nitrobenzene	75 U	100	75	50	ug/kg	
88-72-2	o-Nitrotoluene	75 U	100	75	50	ug/kg	
99-08-1	m-Nitrotoluene	75 U	100	75	50	ug/kg	
99-99-0	p-Nitrotoluene	75 U	100	75	50	ug/kg	
479-45-8	Tetryl [a]	75 U	100	75	50	ug/kg	
99-35-4	1,3,5-Trinitrobenzene	75 U	100	75	50	ug/kg	
118-96-7	2,4,6-Trinitrotoluene	75 U	100	75	50	ug/kg	
55-63-0	Nitroglycerine	500 U	1000	500	250	ug/kg	
78-11-5	PETN	500 U	1000	500	250	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
610-39-9	3,4-Dinitrotoluene	95%		69-134%

(a) Associated LCS and BS outside control limits.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FTBL-SB-01-0-0.5-020717 QA
Lab Sample ID: FA41143-1
Matrix: SO - Soil
Project: Castner Firing Range; Ft Bliss, TX

Date Sampled: 02/07/17
Date Received: 02/10/17
Percent Solids: 95.8

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	0.65 J	4.3	1.1	0.28	mg/kg	5	02/15/17	02/15/17	LM	SW846 6010C [1]	SW846 3050B [2]
Arsenic [a]	5.0	2.1	1.1	0.43	mg/kg	5	02/15/17	02/15/17	LM	SW846 6010C [1]	SW846 3050B [2]
Beryllium [a]	0.80 J	1.1	0.21	0.11	mg/kg	5	02/15/17	02/15/17	LM	SW846 6010C [1]	SW846 3050B [2]
Copper [a]	42.0	5.3	0.43	0.21	mg/kg	5	02/15/17	02/15/17	LM	SW846 6010C [1]	SW846 3050B [2]
Lead [a]	50.4	4.3	0.86	0.21	mg/kg	5	02/15/17	02/15/17	LM	SW846 6010C [1]	SW846 3050B [2]
Nickel [a]	7.5 J	8.6	0.21	0.11	mg/kg	5	02/15/17	02/15/17	LM	SW846 6010C [1]	SW846 3050B [2]
Zinc [a]	47.1	4.3	1.1	0.64	mg/kg	5	02/15/17	02/15/17	LM	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA13817
(2) Prep QC Batch: MP31641

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation
LOD = Limit of Detection
DL = Detection Limit
U = Indicates a result < LOD
J = Indicates a result > = DL (MDL) but < LOQ

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- QC Evaluation: DOD QSM5 Limits

SGS Accutest Southeast Chain of Custody

SGS ACCUTEST

Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.accutest.com

SGS ACCUTEST JOB # : FA41143 PAGE 1 OF 1

SGS Accutest Quote # | SKIFF #

Project Information

Company Name: Arcadis
Address: 401 East Main Street, Suite 400
City: El Paso State: Texas Zip: 79901
(b) (6)
Phone # (b) (6)
Sampler(s) Name(s) (Printed)
Sampler 1 (b) (6) Sampler 2:

Project Name: Closed Castner Firing Range
Street
City: El Paso State: Texas
Project # 06261038.0001.00400
Fax #
Client Purchase Order # 06261038.0001.00400

Analytical Information

Explosive
TCLP/ metals (Sb, As, Ba, Cd, Cr, Pb, Ni, Se, Ag, Tl, Be)

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air

SGS Accutest Sample #	Field ID / Point of Collection	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	TOTAL # OF BOTTLES	CONTAINER INFORMATION: OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH-ZNAC	DI WATER	MEOH	Zinc	Arsenic	Explosive	TCLP/ metals	LAB USE ONLY
	~~TRIP BLK~~			(b) (6)	~~SW~~	~~2~~		~~X~~								~~X~~				
1	FTQL-SB-01-0-0.5-020717 BA	2-7-17	0955		SW	2		X										X	X	

Turnaround Time (Business days)

X 10 Day (Business)
7 Day
5 Day
3 Day *RUSH*
2 Day *RUSH*
1 Day *RUSH*
Other
Approved By: / Date:
Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [x] EDD'S

Comments / Remarks

(b) (6)

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Tim
(b) (6)	2/9/17 1800	2 (b) (6)	3 (b) (6)	
5	Date Time:	6 Received By/Affiliation	7 Relinquished By/Affiliation	Date Tim

(b) (6)

Lab Use Only : Cooler Temperature (s) Celsius: 3.9

5.1 5

FA41143: Chain of Custody
Page 1 of 3

SGS ACCUTEST - ORLANDO SAMPLE RECEIPT CONFIRMATION

SGS ACCUTEST'S JOB NUMBER: FA41143 CLIENT: Arcadis PROJECT: Closed Castner

DATE/TIME RECEIVED: 02/10/17 915 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 7855 6454 0695

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [X] TRIP BLANK NOT PROVIDED
- [X] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.8
- [ ] OBSERVED TEMPS: 3.1
- [ ] CORRECTED TEMPS: 3.9 (USED FOR LIMS)

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT#_____

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

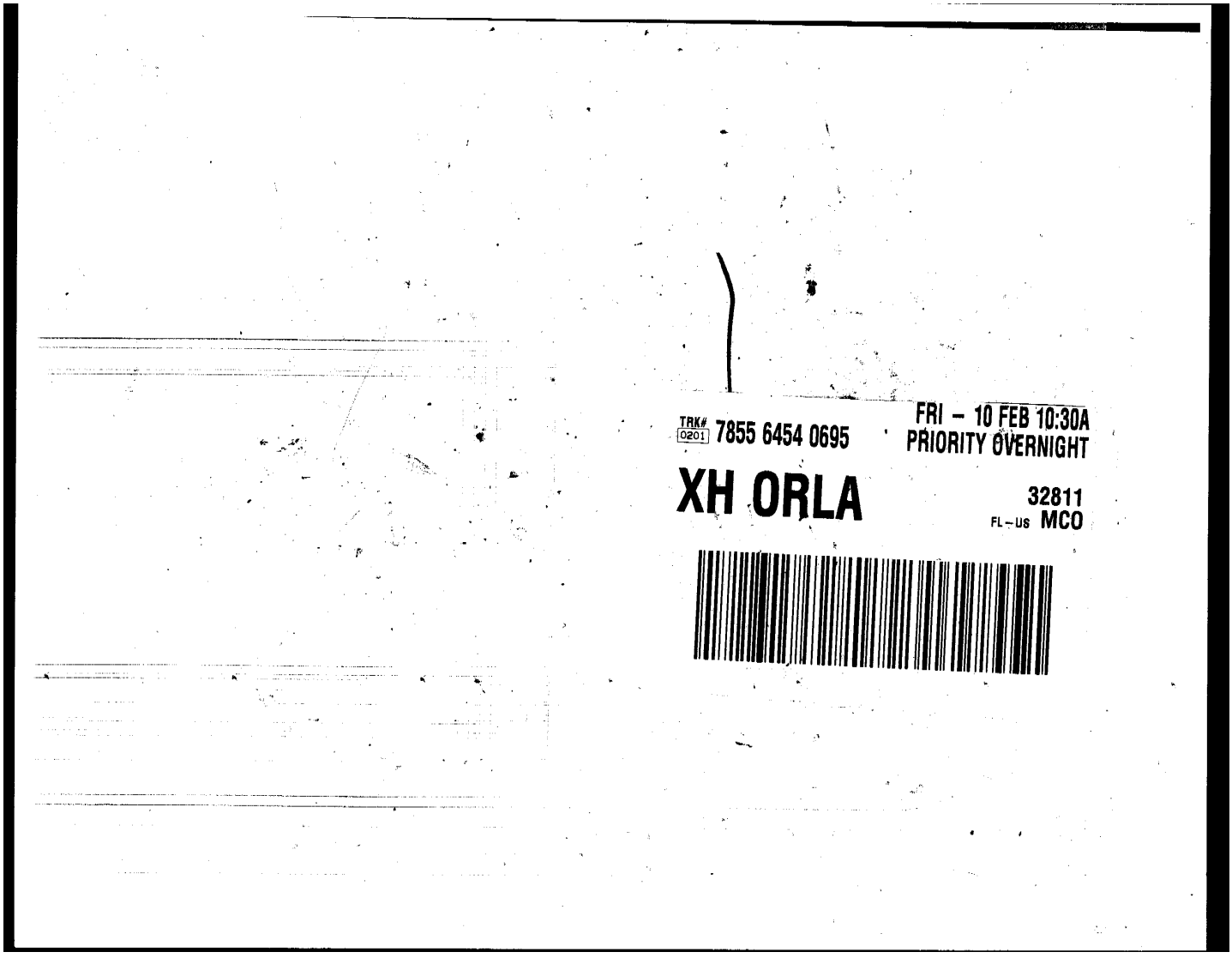
TEST STRIP LOT#s pH 0-3 230315 pH 10-12 219813A OTHER (specify) _____

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE: (b) (6) REVIEWER SIGNATURE/DATE: (b) (6)

NF 02/16 onfirmation 020116.xls

5.1 5



FA41143: Chain of Custody
Page 3 of 3

QC Evaluation: DOD QSM5 Limits

Job Number: FA41143
Account: Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX
Collected: 02/07/17

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP63860	SW846 8330B						
OP63860-BS	2691-41-0	HMX	BSP	REC	94	%	74-124
OP63860-BS	121-82-4	RDX	BSP	REC	96	%	67-129
OP63860-BS	99-65-0	1,3-Dinitrobenzene	BSP	REC	94	%	73-119
OP63860-BS	606-20-2	2,6-Dinitrotoluene	BSP	REC	97	%	79-117
OP63860-BS	121-14-2	2,4-Dinitrotoluene	BSP	REC	98	%	75-121
OP63860-BS	35572-78-2	2-amino-4,6-Dinitrotoluene	BSP	REC	100	%	71-123
OP63860-BS	19406-51-0	4-amino-2,6-Dinitrotoluene	BSP	REC	95	%	64-127
OP63860-BS	98-95-3	Nitrobenzene	BSP	REC	97	%	67-129
OP63860-BS	88-72-2	o-Nitrotoluene	BSP	REC	99	%	70-124
OP63860-BS	99-08-1	m-Nitrotoluene	BSP	REC	94	%	67-129
OP63860-BS	99-99-0	p-Nitrotoluene	BSP	REC	96	%	71-124
OP63860-BS	479-45-8	Tetryl	BSP	REC	138	%	68-135
OP63860-BS	99-35-4	1,3,5-Trinitrobenzene	BSP	REC	94	%	80-116
OP63860-BS	118-96-7	2,4,6-Trinitrotoluene	BSP	REC	112	%	71-120
OP63860-BS	55-63-0	Nitroglycerine	BSP	REC	88	%	73-124
OP63860-BS	78-11-5	PETN	BSP	REC	90	%	72-128
OP63860-MS	2691-41-0	HMX	MS	REC	96	%	74-124
OP63860-MS	121-82-4	RDX	MS	REC	84	%	67-129
OP63860-MS	99-65-0	1,3-Dinitrobenzene	MS	REC	91	%	73-119
OP63860-MS	606-20-2	2,6-Dinitrotoluene	MS	REC	94	%	79-117
OP63860-MS	121-14-2	2,4-Dinitrotoluene	MS	REC	96	%	75-121
OP63860-MS	35572-78-2	2-amino-4,6-Dinitrotoluene	MS	REC	97	%	71-123
OP63860-MS	19406-51-0	4-amino-2,6-Dinitrotoluene	MS	REC	92	%	64-127
OP63860-MS	98-95-3	Nitrobenzene	MS	REC	94	%	67-129
OP63860-MS	88-72-2	o-Nitrotoluene	MS	REC	96	%	70-124
OP63860-MS	99-08-1	m-Nitrotoluene	MS	REC	94	%	67-129
OP63860-MS	99-99-0	p-Nitrotoluene	MS	REC	94	%	71-124
OP63860-MS	479-45-8	Tetryl	MS	REC	133	%	68-135
OP63860-MS	99-35-4	1,3,5-Trinitrobenzene	MS	REC	89	%	80-116
OP63860-MS	118-96-7	2,4,6-Trinitrotoluene	MS	REC	109	%	71-120
OP63860-MS	55-63-0	Nitroglycerine	MS	REC	92	%	73-124
OP63860-MS	78-11-5	PETN	MS	REC	89	%	72-128
OP63860-MSD	2691-41-0	HMX	MSD	REC	98	%	74-124
OP63860-MSD	2691-41-0	HMX	MSD	RPD	2	%	20
OP63860-MSD	121-82-4	RDX	MSD	REC	87	%	67-129
OP63860-MSD	121-82-4	RDX	MSD	RPD	3	%	20
OP63860-MSD	99-65-0	1,3-Dinitrobenzene	MSD	REC	93	%	73-119
OP63860-MSD	99-65-0	1,3-Dinitrobenzene	MSD	RPD	2	%	20
OP63860-MSD	606-20-2	2,6-Dinitrotoluene	MSD	REC	97	%	79-117
OP63860-MSD	606-20-2	2,6-Dinitrotoluene	MSD	RPD	3	%	20
OP63860-MSD	121-14-2	2,4-Dinitrotoluene	MSD	REC	98	%	75-121
OP63860-MSD	121-14-2	2,4-Dinitrotoluene	MSD	RPD	2	%	20

* Sample used for QC is not from job FA41143

QC Evaluation: DOD QSM5 Limits

Job Number: FA41143
Account: Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX
Collected: 02/07/17

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP63860-MSD	35572-78-2	2-amino-4,6-Dinitrotoluene	MSD	REC	98	%	71-123
OP63860-MSD	35572-78-2	2-amino-4,6-Dinitrotoluene	MSD	RPD	1	%	20
OP63860-MSD	19406-51-0	4-amino-2,6-Dinitrotoluene	MSD	REC	93	%	64-127
OP63860-MSD	19406-51-0	4-amino-2,6-Dinitrotoluene	MSD	RPD	1	%	20
OP63860-MSD	98-95-3	Nitrobenzene	MSD	REC	96	%	67-129
OP63860-MSD	98-95-3	Nitrobenzene	MSD	RPD	2	%	20
OP63860-MSD	88-72-2	o-Nitrotoluene	MSD	REC	100	%	70-124
OP63860-MSD	88-72-2	o-Nitrotoluene	MSD	RPD	4	%	20
OP63860-MSD	99-08-1	m-Nitrotoluene	MSD	REC	99	%	67-129
OP63860-MSD	99-08-1	m-Nitrotoluene	MSD	RPD	5	%	20
OP63860-MSD	99-99-0	p-Nitrotoluene	MSD	REC	98	%	71-124
OP63860-MSD	99-99-0	p-Nitrotoluene	MSD	RPD	4	%	20
OP63860-MSD	479-45-8	Tetryl	MSD	REC	131	%	68-135
OP63860-MSD	479-45-8	Tetryl	MSD	RPD	2	%	20
OP63860-MSD	99-35-4	1,3,5-Trinitrobenzene	MSD	REC	91	%	80-116
OP63860-MSD	99-35-4	1,3,5-Trinitrobenzene	MSD	RPD	2	%	20
OP63860-MSD	118-96-7	2,4,6-Trinitrotoluene	MSD	REC	110	%	71-120
OP63860-MSD	118-96-7	2,4,6-Trinitrotoluene	MSD	RPD	1	%	20
OP63860-MSD	55-63-0	Nitroglycerine	MSD	REC	94	%	73-124
OP63860-MSD	55-63-0	Nitroglycerine	MSD	RPD	2	%	20
OP63860-MSD	78-11-5	PETN	MSD	REC	88	%	72-128
OP63860-MSD	78-11-5	PETN	MSD	RPD	1	%	20
MP31641	SW846 6010C						
MP31641-B1	7440-36-0	Antimony	BSP	REC	101.6	%	79-114
MP31641-B1	7440-38-2	Arsenic	BSP	REC	102	%	82-111
MP31641-B1	7440-41-7	Beryllium	BSP	REC	104	%	83-113
MP31641-B1	7440-50-8	Copper	BSP	REC	103.2	%	81-117
MP31641-B1	7439-92-1	Lead	BSP	REC	98.8	%	81-112
MP31641-B1	7440-02-0	Nickel	BSP	REC	105.2	%	83-113
MP31641-B1	7440-66-6	Zinc	BSP	REC	101.6	%	82-113
MP31641-S1	7440-36-0	Antimony	MS	REC	31.4 [a]	%	79-114
MP31641-S1	7440-38-2	Arsenic	MS	REC	92.6	%	82-111
MP31641-S1	7440-41-7	Beryllium	MS	REC	98.7	%	83-113
MP31641-S1	7440-50-8	Copper	MS	REC	-82.9 [a]	%	81-117
MP31641-S1	7439-92-1	Lead	MS	REC	89.6	%	81-112
MP31641-S1	7440-02-0	Nickel	MS	REC	100.3	%	83-113
MP31641-S1	7440-66-6	Zinc	MS	REC	101.4	%	82-113
MP31641-S2	7440-36-0	Antimony	MSD	REC	26.7 [a]	%	79-114
MP31641-S2	7440-36-0	Antimony	MSD	RPD	47.5 [b]	%	20
MP31641-S2	7440-38-2	Arsenic	MSD	REC	83.2	%	82-111
MP31641-S2	7440-38-2	Arsenic	MSD	RPD	44.4 [b]	%	20
MP31641-S2	7440-41-7	Beryllium	MSD	REC	80.5	%	83-113
MP31641-S2	7440-41-7	Beryllium	MSD	RPD	40 [b]	%	20

* Sample used for QC is not from job FA41143

QC Evaluation: DOD QSM5 Limits

Job Number: FA41143
Account: Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX
Collected: 02/07/17

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
MP31641-S2	7440-50-8	Copper	MSD	REC	-177 [c]	%	81-117
MP31641-S2	7440-50-8	Copper	MSD	RPD	16.9	%	20
MP31641-S2	7439-92-1	Lead	MSD	REC	120.1 [a]	%	81-112
MP31641-S2	7439-92-1	Lead	MSD	RPD	2.5	%	20
MP31641-S2	7440-02-0	Nickel	MSD	REC	87.9	%	83-113
MP31641-S2	7440-02-0	Nickel	MSD	RPD	36.3 [b]	%	20
MP31641-S2	7440-66-6	Zinc	MSD	REC	79.9 [a]	%	82-113
MP31641-S2	7440-66-6	Zinc	MSD	RPD	17.6	%	20
MP31641-D1	7440-36-0	Antimony	DUP	RPD	18.5	%	20
MP31641-D1	7440-38-2	Arsenic	DUP	RPD	0	%	20
MP31641-D1	7440-41-7	Beryllium	DUP	RPD	8.4	%	20
MP31641-D1	7440-50-8	Copper	DUP	RPD	72.7 [b]	%	20
MP31641-D1	7439-92-1	Lead	DUP	RPD	7	%	20
MP31641-D1	7440-02-0	Nickel	DUP	RPD	19.3	%	20
MP31641-D1	7440-66-6	Zinc	DUP	RPD	11.8	%	20

(a) Spike recovery indicates possible matrix interference and/or sample non-homogeneity.
(b) High RPD due to possible sample non-homogeneity.
(c) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

* Sample used for QC is not from job FA41143

GC Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: FA41143
Account: ARCTXEL Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP63860-MB	PP381329.D	1	02/20/17	EM	02/17/17	OP63860	GPP2072

The QC reported here applies to the following samples: **Method:** SW846 8330B

FA41143-1

CAS No.	Compound	Result	RL	MDL	Units	Q
2691-41-0	HMX	ND	100	51	ug/kg	
121-82-4	RDX	ND	100	50	ug/kg	
99-65-0	1,3-Dinitrobenzene	ND	100	50	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	100	50	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	100	50	ug/kg	
35572-78-2	2-amino-4,6-Dinitrotoluene	ND	100	50	ug/kg	
19406-51-0	4-amino-2,6-Dinitrotoluene	ND	100	51	ug/kg	
98-95-3	Nitrobenzene	ND	100	50	ug/kg	
88-72-2	o-Nitrotoluene	ND	100	50	ug/kg	
99-08-1	m-Nitrotoluene	ND	100	50	ug/kg	
99-99-0	p-Nitrotoluene	ND	100	50	ug/kg	
479-45-8	Tetryl	ND	100	50	ug/kg	
99-35-4	1,3,5-Trinitrobenzene	ND	100	50	ug/kg	
118-96-7	2,4,6-Trinitrotoluene	ND	100	50	ug/kg	
55-63-0	Nitroglycerine	ND	1000	250	ug/kg	
78-11-5	PETN	ND	1000	250	ug/kg	

CAS No.	Surrogate Recoveries		Limits
610-39-9	3,4-Dinitrotoluene	98%	69-134%

Method Blank Summary

Job Number: FA41143
Account: ARCTXEL Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP63860-MB	GG060989.D	1	02/21/17	KL	02/17/17	OP63860	GGG2508

The QC reported here applies to the following samples: **Method:** SW846 8330B

FA41143-1

CAS No.	Compound	Result	RL	MDL	Units	Q
2691-41-0	HMX	ND	100	51	ug/kg	
121-82-4	RDX	ND	100	50	ug/kg	
99-65-0	1,3-Dinitrobenzene	ND	100	50	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	100	50	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	100	50	ug/kg	
35572-78-2	2-amino-4,6-Dinitrotoluene	ND	100	50	ug/kg	
19406-51-0	4-amino-2,6-Dinitrotoluene	ND	100	51	ug/kg	
98-95-3	Nitrobenzene	ND	100	50	ug/kg	
88-72-2	o-Nitrotoluene	ND	100	50	ug/kg	
99-08-1	m-Nitrotoluene	ND	100	50	ug/kg	
99-99-0	p-Nitrotoluene	ND	100	50	ug/kg	
479-45-8	Tetryl	ND	100	50	ug/kg	
99-35-4	1,3,5-Trinitrobenzene	ND	100	50	ug/kg	
118-96-7	2,4,6-Trinitrotoluene	ND	100	50	ug/kg	
55-63-0	Nitroglycerine	ND	1000	250	ug/kg	
78-11-5	PETN	ND	1000	250	ug/kg	

CAS No.	Surrogate Recoveries		Limits
610-39-9	3,4-Dinitrotoluene	112%	69-134%

Blank Spike Summary

Job Number: FA41143
Account: ARCTXEL Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP63860-BS	PP381328.D	1	02/20/17	EM	02/17/17	OP63860	GPP2072

The QC reported here applies to the following samples: **Method:** SW846 8330B

FA41143-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
2691-41-0	HMX	2500	2340	94	75-147
121-82-4	RDX	2500	2400	96	79-126
99-65-0	1,3-Dinitrobenzene	2500	2360	94	77-131
606-20-2	2,6-Dinitrotoluene	2500	2430	97	81-134
121-14-2	2,4-Dinitrotoluene	2500	2450	98	81-128
35572-78-2	2-amino-4,6-Dinitrotoluene	2500	2510	100	81-127
19406-51-0	4-amino-2,6-Dinitrotoluene	2500	2380	95	74-125
98-95-3	Nitrobenzene	2500	2420	97	79-135
88-72-2	o-Nitrotoluene	2500	2470	99	79-130
99-08-1	m-Nitrotoluene	2500	2340	94	79-132
99-99-0	p-Nitrotoluene	2500	2410	96	79-134
479-45-8	Tetryl	2500	3440	138*	67-130
99-35-4	1,3,5-Trinitrobenzene	2500	2340	94	79-134
118-96-7	2,4,6-Trinitrotoluene	2500	2810	112	70-123
55-63-0	Nitroglycerine	12500	11000	88	73-121
78-11-5	PETN	12500	11300	90	74-140

CAS No.	Surrogate Recoveries	BSP	Limits
610-39-9	3,4-Dinitrotoluene	95%	69-134%

* = Outside of Control Limits.

Laboratory Control Sample Summary

Job Number: FA41143
Account: ARCTXEL Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP63860-PT1	PP381334.D	1	02/20/17	EM	02/17/17	OP63860	GPP2072

The QC reported here applies to the following samples: **Method:** SW846 8330B

FA41143-1

CAS No.	Compound	Spike ug/kg	LCS ug/kg	LCS %	Limits
2691-41-0	HMX	620	539	87	74-124
121-82-4	RDX	587	459	78	67-129
99-65-0	1,3-Dinitrobenzene	1010	926	92	73-119
606-20-2	2,6-Dinitrotoluene	1320	1170	89	79-117
121-14-2	2,4-Dinitrotoluene	638	546	86	75-121
35572-78-2	2-amino-4,6-Dinitrotoluene	650	538	83	71-123
19406-51-0	4-amino-2,6-Dinitrotoluene	947	608	64	64-127
98-95-3	Nitrobenzene	1400	1070	76	67-129
88-72-2	o-Nitrotoluene	1460	1090	75	70-124
99-08-1	m-Nitrotoluene	1020	877	86	67-129
99-99-0	p-Nitrotoluene	1830	1680	92	71-124
479-45-8	Tetryl	2000	634	32*	68-135
99-35-4	1,3,5-Trinitrobenzene	701	611	87	80-116
118-96-7	2,4,6-Trinitrotoluene	808	745	92	71-120
55-63-0	Nitroglycerine	1000	754	75	73-124
78-11-5	PETN	1000	816	82	72-128

CAS No.	Surrogate Recoveries	BSP	Limits
610-39-9	3,4-Dinitrotoluene	88%	69-134%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA41143
Account: ARCTXEL Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP63860-MS	PP381332.D	1	02/20/17	EM	02/17/17	OP63860	GPP2072
OP63860-MSD	PP381333.D	1	02/20/17	EM	02/17/17	OP63860	GPP2072
FA41143-1	PP381331.D	1	02/20/17	EM	02/17/17	OP63860	GPP2072

The QC reported here applies to the following samples: **Method:** SW846 8330B

FA41143-1

CAS No.	Compound	FA41143-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
2691-41-0	HMX	100	U	2500	2390	96	2500	2440	98	2	75-147/22
121-82-4	RDX	100	U	2500	2100	84	2500	2170	87	3	79-126/21
99-65-0	1,3-Dinitrobenzene	100	U	2500	2280	91	2500	2320	93	2	77-131/15
606-20-2	2,6-Dinitrotoluene	100	U	2500	2360	94	2500	2420	97	3	81-134/20
121-14-2	2,4-Dinitrotoluene	100	U	2500	2400	96	2500	2440	98	2	81-128/17
35572-78-2	2-amino-4,6-Dinitrotoluene	100	U	2500	2430	97	2500	2450	98	1	81-127/15
19406-51-0	4-amino-2,6-Dinitrotoluene	100	U	2500	2300	92	2500	2330	93	1	74-125/23
98-95-3	Nitrobenzene	100	U	2500	2360	94	2500	2400	96	2	79-135/16
88-72-2	o-Nitrotoluene	100	U	2500	2400	96	2500	2500	100	4	79-130/17
99-08-1	m-Nitrotoluene	100	U	2500	2350	94	2500	2470	99	5	79-132/20
99-99-0	p-Nitrotoluene	100	U	2500	2350	94	2500	2450	98	4	79-134/22
479-45-8	Tetryl	100	U	2500	3320	133*	2500	3270	131*	2	67-130/19
99-35-4	1,3,5-Trinitrobenzene	100	U	2500	2230	89	2500	2270	91	2	79-134/17
118-96-7	2,4,6-Trinitrotoluene	100	U	2500	2730	109	2500	2750	110	1	70-123/16
55-63-0	Nitroglycerine	1000	U	12500	11500	92	12500	11700	94	2	73-121/15
78-11-5	PETN	1000	U	12500	11100	89	12500	11000	88	1	74-140/16

CAS No.	Surrogate Recoveries	MS	MSD	FA41143-1	Limits
610-39-9	3,4-Dinitrotoluene	95%	95%	95%	69-134%

* = Outside of Control Limits.

Semivolatile Surrogate Recovery Summary

Job Number: FA41143
Account: ARCTXEL Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

Method: SW846 8330B **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
FA41143-1	PP381331.D	95
OP63860-BS	PP381328.D	95
OP63860-MB	PP381329.D	98
OP63860-MB	GG060989.D	112
OP63860-MS	PP381332.D	95
OP63860-MSD	PP381333.D	95
OP63860-PT1	PP381334.D	88

Surrogate Compounds	Recovery Limits
S1 = 3,4-Dinitrotoluene	69-134%

(a) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: FA41143
Account: ARCTXEL Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

Check Std:	GGG2508-CC2500	**Injection Date:**	02/21/17
Lab File ID:	GG060986.D	**Injection Time:**	09:54
Instrument ID:	GCGG	**Method:**	SW846 8330B

	S1 [a] RT	S1 [b] RT
Check Std	14.82	14.82

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
OP63863-MB	GG060987.D	02/21/17	10:24		14.81
ZZZZZZ	GG060988.D	02/21/17	10:53		14.83
OP63860-MB	GG060989.D	02/21/17	11:23		14.85
ZZZZZZ	GG060990.D	02/21/17	11:52		14.86
GGG2508-ECC2500	GG060993.D	02/21/17	14:29	14.91	14.91

Surrogate Compounds

S1 = 3,4-Dinitrotoluene

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: FA41143
Account: ARCTXEL Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

Check Std:	GPP2072-CC2066	**Injection Date:**	02/20/17
Lab File ID:	PP381324.D	**Injection Time:**	10:01
Instrument ID:	GCPP	**Method:**	SW846 8330B

	S1 [a] RT	S1 [b] RT
Check Std	10.03	10.03

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
OP63863-BS	PP381325.D	02/20/17	10:26		10.02
OP63863-MB	PP381326.D	02/20/17	10:51		10.01
ZZZZZZ	PP381327.D	02/20/17	11:16		10.02
OP63860-BS	PP381328.D	02/20/17	11:41		10.03
OP63860-MB	PP381329.D	02/20/17	12:06		10.03
ZZZZZZ	PP381330.D	02/20/17	12:31		10.03
FA41143-1	PP381331.D	02/20/17	12:56		10.02
OP63860-MS	PP381332.D	02/20/17	13:21		10.01
OP63860-MSD	PP381333.D	02/20/17	13:46		10.03
OP63860-PT1	PP381334.D	02/20/17	14:11		10.00
GPP2072-ECC2066	PP381335.D	02/20/17	14:35	10.00	10.00

Surrogate Compounds

S1 = 3,4-Dinitrotoluene

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

Initial Calibration Summary

Job Number: FA41143
Account: ARCTXEL Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

Sample: GGG2500-ICC2500
Lab FileID: GG060861.D

Response Factor Report G1315B

Method : C:\MSDCHEM\1\METHODS\8330RPB.M_1230.M (Chemstation Integrator)
Title : Explosives by 8330A,8330B,8332
Last Update : Tue Jan 03 10:58:03 2017
Response via : Initial Calibration

Calibration Files
20 =GG060857.D 50 =GG060858.D 100 =GG060859.D 200 =GG060860.D
500 =GG060861.D 1000=GG060862.D 2000=GG060863.D

	Compound	20	50	100	200	500	1000	2000	Avg	%RSD
1)	TNX	7.563	9.380	8.035	8.088	7.825	7.839	8.528	8.180 E3	7.42
2)	HMX	2.883	2.816	2.522	2.563	2.715	2.586	2.745	2.690 E3	5.08
3)	DNX	6.893	9.151	7.677	7.329	7.479	7.186	7.745	7.637 E3	9.54
4)	MNX	4.312	5.568	5.005	5.068	5.055	5.117	5.642	5.110 E3	8.55
5)	1,3,5-Trinitroben	0.756	1.088	0.936	0.940	0.895	0.889	0.978	0.926 E4	10.83
6)	RDX	2.474	5.440	4.740	4.595	4.275	4.223	4.605	4.336 E3	21.06
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9996									
	Response Ratio = 0.00000 + 4035.46673 *A + 0.28009 *A^2									
7)	1,3-Dinitrobenzen	1.684	1.483	1.241	1.228	1.177	1.164	1.276	1.322 E4	14.50
8)	Nitrobenzene	6.833	9.070	7.881	7.679	7.476	7.385	7.972	7.757 E3	8.90
9)	2,4,6-Trinitrotol	5.539	6.829	5.853	5.799	5.734	5.653	6.196	5.943 E3	7.42
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9998									
	Response Ratio = 0.00000 + 5342.63698 *A + 0.42141 *A^2									
10)	Nitroglycerin								0.000	-1.00
11)	Tetryl	3.802	4.635	4.245	4.265	4.115	4.096	4.491	4.236 E3	6.44
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9998									
	Response Ratio = 0.00000 + 3856.53143 *A + 0.31338 *A^2									
12)S	3,4-Dinitrotoluen	3.961	5.304	4.496	4.588	4.352	4.211	4.633	4.507 E3	9.36
13)	2,6-Dinitrotoluen	6.667	8.671	7.438	7.381	7.151	7.142	7.825	7.468 E3	8.52
14)	2,4-Dinitrotoluen	1.083	1.365	1.161	1.161	1.110	1.096	1.200	1.168 E4	8.24
15)	o-Nitrotoluene	3.698	5.793	5.119	4.937	4.816	4.818	5.228	4.916 E3	12.90
16)	3,5-Dinitroanilin	0.910	1.169	1.043	1.024	0.965	0.962	1.053	1.018 E4	8.26
17)	p-Nitrotoluene	2.045	3.247	3.012	2.966	3.119	3.267	3.583	3.034 E3	15.87
	---- Quadratic regr., Force(0,0) ---- Coefficient = 1.0000									
	Response Ratio = 0.00000 + 2952.90168 *A + 0.31518 *A^2									
18)	4-Amino-2,6-Dinit	0.411	3.209	3.858	4.511	5.165	5.558	6.425	4.162 E3	47.31
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9999									
	Response Ratio = 0.00000 + 4644.23889 *A + 0.89208 *A^2									
19)	m-Nitrotoluene	3.219	4.851	4.751	4.758	4.867	5.306	5.799	4.793 E3	16.52
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9999									
	Response Ratio = 0.00000 + 4710.70662 *A + 0.54610 *A^2									
20)	2-Amino-4,6-Dinit	0.820	1.074	0.950	0.911	0.824	0.809	0.905	0.899 E4	10.49
21)	PETN								0.000	-1.00

Signal #2

1)	TNX	7.736	9.414	8.185	8.171	8.038	7.839	8.528	8.273 E3	6.83
2)	HMX	3.084	2.939	2.703	2.566	2.715	2.586	2.745	2.763 E3	6.77
3)	DNX	6.241	9.486	7.319	7.449	7.479	7.186	7.745	7.558 E3	12.89
4)	MNX	4.208	5.591	4.995	5.068	5.055	5.117	5.642	5.097 E3	9.29
5)	1,3,5-Trinitroben	0.747	1.088	0.936	0.940	0.895	0.889	0.978	0.925 E4	11.12

Initial Calibration Summary

Job Number: FA41143
Account: ARCTXEL Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

Sample: GGG2500-ICC2500
Lab FileID: GG060861.D

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 6)  RDX              2.474 5.440 4.740 4.595 4.275 4.223 4.605 4.336 E3  21.06
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 4035.46673 *A + 0.28009 *A^2

 7)  1,3-Dinitrobenzen 1.498 1.198 0.953 0.968 0.920 0.880 0.958 1.053 E4  21.00
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 8555.75963 *A + 0.49902 *A^2

 8)  Nitrobenzene      3.324 8.715 7.942 7.474 7.607 7.275 7.643 7.140 E3  24.45
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 7207.64364 *A + 0.21114 *A^2

 9)  2,4,6-Trinitrotol 7.666 8.235 7.296 7.338 8.109 7.861 8.373 7.840 E3   5.44
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 7565.70447 *A + 0.39955 *A^2

10)  Nitroglycerin     3.750 3.451 2.907 2.946 3.051 3.003 3.260 3.195 E3   9.73
11)  Tetryl            8.795 7.289 7.461 6.830 7.381 7.508 8.380 7.663 E3   8.87
12)S 3,4-Dinitrotoluen 0.618 1.088 1.024 1.005 0.964 0.943 1.046 0.955 E4  16.40
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 8899.97620 *A + 0.76749 *A^2

13)  2,6-Dinitrotoluen 0.390 1.139 0.834 0.895 1.000 1.014 1.133 0.915 E4  28.14
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9973
              Response Ratio = 0.00000 + 11017.51180 *A

14)  2,4-Dinitrotoluen 1.239 1.100 0.799 0.799 0.786 0.793 0.858 0.911 E4  20.09
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
              Response Ratio = 0.00000 + 7483.76805 *A + 0.54259 *A^2

15)  o-Nitrotoluene    2.727 8.995 7.146 6.626 6.847 7.048 7.697 6.726 E3  28.72
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
              Response Ratio = 0.00000 + 6488.56489 *A + 0.60207 *A^2

16)  3,5-Dinitroanilin 2.175 1.918 1.761 1.727 1.647 1.654 1.811 1.813 E4  10.20
17)  p-Nitrotoluene    1.538 3.573 1.584 1.693 3.072 4.074 4.886 2.917 E3  46.10
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9983
              Response Ratio = 0.00000 + 2807.70945 *A + 1.05011 *A^2

18)  4-Amino-2,6-Dinit 0.014 0.097 0.071 0.142 0.527 0.805 1.066 0.389 E4  107.05
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9979
              Response Ratio = 0.00000 + 4248.71394 *A + 3.23613 *A^2

19)  m-Nitrotoluene    2.022 2.221 4.998 5.343 7.091 7.743 8.543 5.423 E3  47.56
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 6600.72211 *A + 0.98022 *A^2

20)  2-Amino-4,6-Dinit 0.011 0.506 1.179 1.095 1.206 1.189 1.315 0.929 E4  52.08
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 10971.96258 *A + 1.08494 *A^2

21)  PETN              3.113 3.310 3.418 3.417 3.277 3.276 3.556 3.338 E3   4.22
--------------------------------------------------------------------------------
(#) = Out of Range

          8330RPB.M_1230.M        Tue Jan 03 11:07:36 2017
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Initial Calibration Verification

Job Number: FA41143
Account: ARCTXEL Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

Sample: GGG2500-ICV2500
Lab FileID: GG060864.D

Evaluate Continuing Calibration Report

Signal #1 : G:\DATA\1230RPB3\GG060864.D\dad1B.ch Vial: 28
Signal #2 : G:\DATA\1230RPB3\GG060864.D\dad1A.ch
Acq On : 30-Dec-2016, 18:13:52 Operator: kismetl
Sample : icv2500-500 Inst : G1315B
Misc : OP63245,GGG2500,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e

Method : C:\MSDCHEM\1\METHODS\8330RPB.M_1230.M (Chemstation Integrator)
Title : Explosives by 8330A,8330B,8332
Last Update : Tue Jan 03 10:58:03 2017
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	TNX	500.000	508.848	-1.8	106	0.00	4.13- 5.13
2	HMX	500.000	550.270	-10.1	109	0.00	4.50- 5.50
3	DNX	500.000	485.321	2.9	99	0.00	4.66- 5.66
4	MNX	500.000	511.578	-2.3	103	0.00	5.55- 6.55
5	1,3,5-Trinitrobenzene	500.000	494.967	1.0	102	0.00	6.56- 7.56
	----------	Amount	Calc.	%Drift	----------		
6	RDX	500.000	556.540	-11.3	109	0.00	6.89- 7.89
	----------	Amount	Calc.	%Drift	----------		
7	1,3-Dinitrobenzene	500.000	441.071	11.8	99	0.00	9.05-10.05
8	Nitrobenzene	500.000	518.583	-3.7	108	0.00	10.12-11.12
	----------	Amount	Calc.	%Drift	----------		
9	2,4,6-Trinitrotoluene	500.000	400.036	20.0#	77	0.00	11.20-12.20
	----------	Amount	Calc.	%Drift	----------		
10	Nitroglycerin	----------NA----------					
	----------	Amount	Calc.	%Drift	----------		
11	Tetryl	500.000	439.948	12.0	85	0.00	13.00-14.00
	----------	Amount	Calc.	%Drift	----------		
12 S	3,4-Dinitrotoluene	----------NA----------					
13	2,6-Dinitrotoluene	500.000	501.024	-0.2	105	0.03	14.88-15.88
14	2,4-Dinitrotoluene	500.000	496.326	0.7	104	0.00	15.85-16.85
15	o-Nitrotoluene	500.000	540.855	-8.2	110	0.02	18.30-19.30
16	3,5-Dinitroaniline	500.000	472.389	5.5	100	0.01	17.64-18.64
	----------	Amount	Calc.	%Drift	----------		
17	p-Nitrotoluene	500.000	540.972	-8.2	108	0.01	20.16-21.16
18	4-Amino-2,6-Dinitrotol	500.000	526.769	-5.4	104	0.00	20.81-21.81
19	m-Nitrotoluene	500.000	544.548	-8.9	112	0.00	22.15-23.15
	----------	Amount	Calc.	%Drift	----------		
20	2-Amino-4,6-Dinitrotol	500.000	541.550	-8.3	118	0.00	23.21-24.21
21	PETN	----------NA----------					
*****	Signal #2 *****						
1	TNX	500.000	503.109	-0.6	104	0.00	4.13- 5.13

Initial Calibration Verification

Job Number: FA41143
Account: ARCTXEL Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

Sample: GGG2500-ICV2500
Lab FileID: GG060864.D

2		HMX	500.000	569.244	-13.8	116	0.00	4.50- 5.50
3		DNX	500.000	512.895	-2.6	104	0.00	4.66- 5.66
4		MNX	500.000	512.876	-2.6	103	0.00	5.55- 6.55
5		1,3,5-Trinitrobenzene	500.000	495.642	0.9	102	0.00	6.56- 7.56
			Amount	Calc.	%Drift			
6		RDX	500.000	556.540	-11.3	109	0.00	6.89- 7.89
7		1,3-Dinitrobenzene	500.000	506.352	-1.3	97	0.00	9.05-10.05
8		Nitrobenzene	500.000	551.404	-10.3	106	0.00	10.12-11.12
9		2,4,6-Trinitrotoluene	500.000	417.808	16.4#	80	0.00	11.20-12.20
			Amount	Calc.	%Drift			
10		Nitroglycerin	2500.000	2429.821	2.8	102	0.00	12.04-13.04
11		Tetryl	500.000	454.862	9.0	94	0.00	12.99-13.99
			Amount	Calc.	%Drift			
12	S	3,4-Dinitrotoluene			NA			
13		2,6-Dinitrotoluene	500.000	554.445	-10.9	122	0.05	14.85-15.85
14		2,4-Dinitrotoluene	500.000	527.399	-5.5	104	0.00	15.85-16.85
15		o-Nitrotoluene	500.000	567.807	-13.6	113	0.02	18.28-19.28
			Amount	Calc.	%Drift			
16		3,5-Dinitroaniline	500.000	454.373	9.1	100	0.01	17.63-18.63
			Amount	Calc.	%Drift			
17		p-Nitrotoluene	500.000	541.058	-8.2	119	0.03	20.15-21.15
18		4-Amino-2,6-Dinitrotol	500.000	524.739	-4.9	119	-0.01	20.84-21.84
19		m-Nitrotoluene	500.000	551.021	-10.2	111	0.02	22.15-23.15
20		2-Amino-4,6-Dinitrotol	500.000	561.636	-12.3	108	0.00	23.22-24.22
			Amount	Calc.	%Drift			
21		PETN	2500.000	2594.295	-3.8	106	0.00	24.36-25.36

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GG060861.D 8330RPB.M_1230.M Tue Jan 03 11:08:20 2017

6.7.2

6

Continuing Calibration Summary

Job Number: FA41143
Account: ARCTXEL Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

Sample: GGG2508-CC2500
Lab FileID: GG060986.D

Evaluate Continuing Calibration Report

Signal #1 : G:\DATA\0221RPB3\GG060986.D\dad1B.ch Vial: 2
Signal #2 : G:\DATA\0221RPB3\GG060986.D\dad1A.ch
Acq On : 21-Feb-2017, 09:54:30 Operator: kismetl
Sample : cc2500-1000 Inst : G1315B
Misc : OP63863,Ggg2508,2.00,,,20,,soil Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e

Method : C:\MSDCHEM\1\METHODS\8330RPB.M_1230.M (Chemstation Integrator)
Title : Explosives by 8330A,8330B,8332
Last Update : Tue Feb 21 10:30:23 2017
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	TNX	1000.000	973.278	2.7	102	0.00	4.12- 5.12
2	HMX	1000.000	992.724	0.7	103	0.00	4.49- 5.49
3	DNX	1000.000	940.603	5.9	100	0.00	4.64- 5.64
4	MNX	1000.000	1015.337	-1.5	101	0.00	5.53- 6.53
5	1,3,5-Trinitrobenzene	1000.000	968.016	3.2	101	0.00	6.51- 7.51
	---------- Amount	Calc.	%Drift	----------			
6	RDX	1000.000	1000.739	-0.1	102	0.00	6.86- 7.86
	---------- Amount	Calc.	%Drift	----------			
7	1,3-Dinitrobenzene	1000.000	905.728	9.4	103	0.00	8.99- 9.99
8	Nitrobenzene	1000.000	950.766	4.9	100	0.00	10.04-11.04
	---------- Amount	Calc.	%Drift	----------			
9	2,4,6-Trinitrotoluene	1000.000	959.060	4.1	97	0.00	11.09-12.09
	---------- Amount	Calc.	%Drift	----------			
10	Nitroglycerin	----------NA----------					
	---------- Amount	Calc.	%Drift	----------			
11	Tetryl	1000.000	885.376	11.5	89	0.00	12.87-13.87
	---------- Amount	Calc.	%Drift	----------			
12 S	3,4-Dinitrotoluene	1000.000	1032.996	-3.3	111	0.00	14.32-15.32
13	2,6-Dinitrotoluene	1000.000	949.393	5.1	99	0.00	14.75-15.75
14	2,4-Dinitrotoluene	1000.000	954.444	4.6	102	0.00	15.70-16.70
15	o-Nitrotoluene	1000.000	971.693	2.8	99	0.00	18.10-19.10
16	3,5-Dinitroaniline	1000.000	1011.239	-1.1	107	0.00	17.46-18.46
	---------- Amount	Calc.	%Drift	----------			
17	p-Nitrotoluene	1000.000	1033.316	-3.3	104	0.00	19.92-20.92
18	4-Amino-2,6-Dinitrotol	1000.000	982.353	1.8	98	0.00	20.61-21.61
19	m-Nitrotoluene	1000.000	966.705	3.3	95	0.00	21.95-22.95
	---------- Amount	Calc.	%Drift	----------			
20	2-Amino-4,6-Dinitrotol	1000.000	972.166	2.8	108	0.00	23.10-24.10
21	PETN	----------NA----------					
*****	Signal #2 *****						
1	TNX	1000.000	962.300	3.8	102	0.00	4.12- 5.12

Continuing Calibration Summary

Job Number: FA41143
Account: ARCTXEL Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

Sample: GGG2508-CC2500
Lab FileID: GG060986.D

			Amount	Calc.	%Drift			
2		HMX	1000.000	966.637	3.3	103	0.00	4.49- 5.49
3		DNX	1000.000	950.454	5.0	100	0.00	4.64- 5.64
4		MNX	1000.000	1017.914	-1.8	101	0.00	5.53- 6.53
5		1,3,5-Trinitrobenzene	1000.000	969.337	3.1	101	0.00	6.51- 7.51
			Amount	Calc.	%Drift			
6		RDX	1000.000	1000.739	-0.1	102	0.00	6.86- 7.86
7		1,3-Dinitrobenzene	1000.000	1021.658	-2.2	105	0.00	8.99- 9.99
8		Nitrobenzene	1000.000	962.034	3.8	98	0.00	10.04-11.04
9		2,4,6-Trinitrotoluene	1000.000	964.213	3.6	98	0.00	11.09-12.09
			Amount	Calc.	%Drift			
10		Nitroglycerin	5000.000	4860.185	2.8	103	0.00	11.91-12.91
11		Tetryl	1000.000	928.278	7.2	95	0.00	12.86-13.86
			Amount	Calc.	%Drift			
12	S	3,4-Dinitrotoluene	1000.000	1066.138	-6.6	110	0.00	14.31-15.31
13		2,6-Dinitrotoluene	1000.000	918.400	8.2	100	0.00	14.73-15.73
14		2,4-Dinitrotoluene	1000.000	958.655	4.1	97	0.00	15.70-16.70
15		o-Nitrotoluene	1000.000	975.053	2.5	98	0.00	18.09-19.09
			Amount	Calc.	%Drift			
16		3,5-Dinitroaniline	1000.000	972.301	2.8	107	0.00	17.46-18.46
			Amount	Calc.	%Drift			
17		p-Nitrotoluene	1000.000	1136.179	-13.6	112	0.00	19.92-20.92
18		4-Amino-2,6-Dinitrotol	1000.000	1081.049	-8.1	104	0.00	20.61-21.61
19		m-Nitrotoluene	1000.000	1017.757	-1.8	100	0.00	21.97-22.97
20		2-Amino-4,6-Dinitrotol	1000.000	1030.198	-3.0	105	0.00	23.11-24.11
			Amount	Calc.	%Drift			
21		PETN	5000.000	4790.570	4.2	98	0.00	24.22-25.22

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GG060862.D 8330RPB.M_1230.M Wed Feb 22 09:46:01 2017

Continuing Calibration Summary

Job Number: FA41143
Account: ARCTXEL Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

Sample: GGG2508-ECC2500
Lab FileID: GG060993.D

Evaluate Continuing Calibration Report

Signal #1 : G:\DATA\0221RPB3\GG060993.D\dad1B.ch Vial: 2
Signal #2 : G:\DATA\0221RPB3\GG060993.D\dad1A.ch
Acq On : 21-Feb-2017, 14:29:57 Operator: kismetl
Sample : ecc2500-1000 Inst : G1315B
Misc : OP63863,Ggg2508,10.1,,,50,,soil Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e

Method : C:\MSDCHEM\1\METHODS\8330RPB.M_1230.M (Chemstation Integrator)
Title : Explosives by 8330A,8330B,8332
Last Update : Tue Feb 21 10:30:23 2017
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	TNX	1000.000	962.455	3.8	100	0.01	4.12- 5.12
2	HMX	1000.000	999.947	0.0	104	0.02	4.49- 5.49
3	DNX	1000.000	938.126	6.2	100	0.02	4.64- 5.64
4	MNX	1000.000	991.749	0.8	99	0.02	5.53- 6.53
5	1,3,5-Trinitrobenzene	1000.000	970.509	2.9	101	0.02	6.51- 7.51
	----------	Amount	Calc.	%Drift			----------
6	RDX	1000.000	971.149	2.9	99	0.02	6.86- 7.86
	----------	Amount	Calc.	%Drift			----------
7	1,3-Dinitrobenzene	1000.000	885.549	11.4	101	0.03	8.99- 9.99
8	Nitrobenzene	1000.000	967.932	3.2	102	0.04	10.04-11.04
	----------	Amount	Calc.	%Drift			----------
9	2,4,6-Trinitrotoluene	1000.000	952.812	4.7	97	0.05	11.09-12.09
	----------	Amount	Calc.	%Drift			----------
10	Nitroglycerin	----------NA----------					
	----------	Amount	Calc.	%Drift			----------
11	Tetryl	1000.000	877.222	12.3	88	0.07	12.87-13.87
	----------	Amount	Calc.	%Drift			----------
12 S	3,4-Dinitrotoluene	1000.000	1020.692	-2.1	109	0.09	14.32-15.32
13	2,6-Dinitrotoluene	1000.000	926.797	7.3	97	0.09	14.75-15.75
14	2,4-Dinitrotoluene	1000.000	936.967	6.3	100	0.10	15.70-16.70
15	o-Nitrotoluene	1000.000	1014.127	-1.4	103	0.14	18.10-19.10
16	3,5-Dinitroaniline	1000.000	993.698	0.6	105	0.11	17.46-18.46
	----------	Amount	Calc.	%Drift			----------
17	p-Nitrotoluene	1000.000	1063.110	-6.3	107	0.15	19.92-20.92
18	4-Amino-2,6-Dinitrotol	1000.000	985.883	1.4	98	0.17	20.61-21.61
19	m-Nitrotoluene	1000.000	1053.688	-5.4	105	0.12	21.95-22.95
	----------	Amount	Calc.	%Drift			----------
20	2-Amino-4,6-Dinitrotol	1000.000	991.355	0.9	110	0.08	23.10-24.10
21	PETN	----------NA----------					
*****	Signal #2 *****						
1	TNX	1000.000	951.599	4.8	100	0.01	4.12- 5.12

Continuing Calibration Summary

Job Number: FA41143
Account: ARCTXEL Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

Sample: GGG2508-ECC2500
Lab FileID: GG060993.D

			Amount	Calc.	%Drift			
2		HMX	1000.000	973.670	2.6	104	0.02	4.49- 5.49
3		DNX	1000.000	947.951	5.2	100	0.02	4.64- 5.64
4		MNX	1000.000	994.265	0.6	99	0.02	5.53- 6.53
5		1,3,5-Trinitrobenzene	1000.000	971.833	2.8	101	0.02	6.51- 7.51
			Amount	Calc.	%Drift			
6		RDX	1000.000	971.149	2.9	99	0.02	6.86- 7.86
7		1,3-Dinitrobenzene	1000.000	984.868	1.5	101	0.03	8.99- 9.99
8		Nitrobenzene	1000.000	966.537	3.3	98	0.04	10.04-11.04
9		2,4,6-Trinitrotoluene	1000.000	940.299	6.0	95	0.05	11.09-12.09
			Amount	Calc.	%Drift			
10		Nitroglycerin	5000.000	4713.054	5.7	100	0.06	11.91-12.91
11		Tetryl	1000.000	899.963	10.0	92	0.07	12.86-13.86
			Amount	Calc.	%Drift			
12	S	3,4-Dinitrotoluene	1000.000	1055.039	-5.5	109	0.09	14.31-15.31
13		2,6-Dinitrotoluene	1000.000	899.140	10.1	98	0.09	14.73-15.73
14		2,4-Dinitrotoluene	1000.000	942.481	5.8	95	0.10	15.70-16.70
15		o-Nitrotoluene	1000.000	1031.165	-3.1	104	0.15	18.09-19.09
			Amount	Calc.	%Drift			
16		3,5-Dinitroaniline	1000.000	954.923	4.5	105	0.11	17.46-18.46
			Amount	Calc.	%Drift			
17		p-Nitrotoluene	1000.000	1120.547	-12.1	110	0.15	19.92-20.92
18		4-Amino-2,6-Dinitrotol	1000.000	1046.330	-4.6	99	0.17	20.61-21.61
19		m-Nitrotoluene	1000.000	1082.440	-8.2	107	0.12	21.97-22.97
20		2-Amino-4,6-Dinitrotol	1000.000	975.193	2.5	99	0.08	23.11-24.11
			Amount	Calc.	%Drift			
21		PETN	5000.000	4784.140	4.3	98	0.07	24.22-25.22

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GG060862.D 8330RPB.M_1230.M Wed Feb 22 09:46:02 2017

Initial Calibration Summary

Job Number: FA41143
Account: ARCTXEL Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

Sample: GPP2066-ICC2066
Lab FileID: PP381206.D

Response Factor Report G1315B

Method : C:\MSDCHEM\2\METHODS\8330-0118BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330A.8330B,8332
Last Update : Thu Jan 19 06:49:11 2017
Response via : Initial Calibration

Calibration Files
20 =PP381202.D 50 =PP381203.D 100 =PP381204.D 200 =PP381205.D
500 =PP381206.D 1000=PP381207.D 2000=PP381208.D

	Compound	20	50	100	200	500	1000	2000	Avg	%RSD
1)	TNX	2.598	3.165	2.959	2.790	3.030	3.098	2.982	2.946 E3	6.58
2)	HMX	1.640	1.579	1.731	1.554	1.665	1.663	1.703	1.648 E3	3.84
3)	DNX	4.067	3.171	3.119	2.780	2.799	2.679	2.775	3.056 E3	15.83
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9998									
	Response Ratio = 0.00000 + 2688.92850 *A + 0.04086 *A^2									
4)	MNX	2.502	2.449	2.328	2.283	2.282	2.228	2.293	2.338 E3	4.27
5)	RDX	2.106	1.811	1.773	1.774	1.788	1.718	1.785	1.822 E3	7.04
6)	1,3,5-Trinitroben	4.057	4.164	4.111	4.023	4.087	3.951	4.115	4.073 E3	1.72
7)	1,3-Dinitrobenzen	5.000	5.292	5.001	5.030	5.080	4.915	5.112	5.061 E3	2.36
8)	3,5-Dinitroanilin	4.551	4.887	4.638	4.341	4.407	4.248	4.440	4.502 E3	4.73
9)	Nitrobenzene	3.533	2.993	3.077	2.868	2.969	2.917	3.016	3.053 E3	7.27
10)	Nitroglycerin								0.000	-1.00
11)	Tetryl	2.853	1.908	1.730	1.954	1.942	1.975	2.041	2.058 E3	17.67
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9999									
	Response Ratio = 0.00000 + 1908.15551 *A + 0.06642 *A^2									
12)	2,4,6-Trinitrotol	4.161	2.666	2.872	2.826	2.887	2.804	2.927	3.020 E3	16.88
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9999									
	Response Ratio = 0.00000 + 2760.78295 *A + 0.08159 *A^2									
13)	2-Amino-4,6-Dinit	2.875	3.075	3.118	3.138	3.134	3.093	3.200	3.090 E3	3.33
14)	4-Amino-2,6-Dinit	2.774	2.127	2.327	2.304	2.220	2.283	2.356	2.342 E3	8.78
15)S	3,4-Dinitrotoluen	2.332	1.962	2.053	2.061	1.975	2.021	2.094	2.071 E3	6.00
16)	2,4-Dinitrotoluen	4.701	4.693	4.800	4.517	4.555	4.454	4.628	4.621 E3	2.60
17)	2,6-Dinitrotoluen	2.917	2.669	2.634	2.651	2.559	2.514	2.592	2.648 E3	4.93
18)	o-Nitrotoluene	2.587	2.050	2.190	2.189	2.215	2.117	2.168	2.217 E3	7.80
19)	p-Nitrotoluene	3.721	3.459	3.282	3.406	3.433	3.295	3.392	3.427 E3	4.26
20)	m-Nitrotoluene	3.473	3.442	3.252	3.254	3.266	3.205	3.313	3.315 E3	3.10
21)	PETN								0.000	-1.00

Signal #2

1)	TNX	3.829	4.034	4.356	4.152	4.499	4.585	4.460	4.273 E3	6.47
2)	HMX	4.668	4.946	5.354	4.534	4.917	4.559	4.571	4.793 E3	6.26
3)	DNX	1.328	0.822	0.662	0.503	0.471	0.430	0.440	0.665 E4	48.89
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9989									
	Response Ratio = 0.00000 + 4568.51109 *A + -0.09534 *A^2									
4)	MNX	3.392	3.672	3.600	3.495	3.562	3.412	3.535	3.524 E3	2.84
5)	RDX	3.547	3.100	2.973	2.866	2.841	2.726	2.841	2.985 E3	9.20
6)	1,3,5-Trinitroben	7.864	7.707	7.799	7.762	7.836	7.571	7.875	7.773 E3	1.38
7)	1,3-Dinitrobenzen	3.315	3.415	3.426	3.424	3.461	3.289	3.412	3.392 E3	1.88
8)	3,5-Dinitroanilin	7.844	7.835	7.906	7.474	7.426	7.214	7.522	7.603 E3	3.43
9)	Nitrobenzene	2.953	3.299	3.047	2.952	2.982	2.923	2.982	3.020 E3	4.28
10)	Nitroglycerin	1.398	1.425	1.389	1.310	1.306	1.259	1.319	1.344 E3	4.50
11)	Tetryl	3.906	3.203	3.155	3.031	3.000	2.878	2.961	3.162 E3	10.95

Initial Calibration Summary

Job Number: FA41143
Account: ARCTXEL Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

Sample: GPP2066-ICC2066
Lab FileID: PP381206.D

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12)  2,4,6-Trinitrotol 3.832 3.990 4.165 3.901 3.937 3.775 3.927 3.933 E3   3.17
13)  2-Amino-4,6-Dinit 5.560 5.222 5.189 5.015 4.941 4.764 4.937 5.090 E3   5.11
14)  4-Amino-2,6-Dinit 5.652 5.313 5.177 4.861 4.839 4.682 4.857 5.055 E3   6.76
15)S 3,4-Dinitrotoluen 4.478 4.006 3.928 3.722 3.685 3.561 3.706 3.869 E3   7.97
16)  2,4-Dinitrotoluen 3.712 2.757 2.729 2.836 2.932 2.874 3.025 2.981 E3  11.34
17)  2,6-Dinitrotoluen 1.645 1.961 2.423 2.727 3.079 3.085 3.321 2.606 E3  24.02
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 2867.42577 *A + 0.22675 *A^2

18)  o-Nitrotoluene    3.710 3.083 2.611 3.051 3.081 2.939 3.118 3.085 E3  10.58
19)  p-Nitrotoluene    2.960 2.810 2.768 2.880 2.838 2.794 2.954 2.858 E3   2.68
20)  m-Nitrotoluene    3.756 3.975 3.895 3.831 3.929 3.803 4.021 3.887 E3   2.46
21)  PETN              1.725 1.548 1.433 1.433 1.440 1.378 1.429 1.484 E3   7.94
-------------------------------------------------------------------------------
(#) = Out of Range

          8330-0118BPLUS.M        Thu Jan 19 12:16:05 2017
```

Initial Calibration Verification

Job Number: FA41143
Account: ARCTXEL Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

Sample: GPP2066-ICV2066
Lab FileID: PP381209.D

Evaluate Continuing Calibration Report

Signal #1 : P:\DATA\0118BPL\PP381209.D\dad1B.ch Vial: 10
Signal #2 : P:\DATA\0118BPL\PP381209.D\dad1A.ch
Acq On : 18-Jan-2017, 11:26:25 Operator: kismetl
Sample : icv2066-500 Inst : G1315B
Misc : OP63244,GPP2066,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E

Method : C:\MSDCHEM\2\METHODS\8330-0118BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330A.8330B,8332
Last Update : Thu Jan 19 06:49:11 2017
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	TNX	500.000	527.933	-5.6	103	0.00	0.86- 1.46
2	HMX	500.000	565.139	-13.0	112	0.00	0.94- 1.54
	----------	Amount	Calc.	%Drift	----------		
3	DNX	500.000	509.255	-1.9	99	0.00	1.18- 1.78
	----------	Amount	Calc.	%Drift	----------		
4	MNX	500.000	492.591	1.5	101	0.00	1.68- 2.28
5	RDX	500.000	513.081	-2.6	105	0.00	2.10- 2.90
6	1,3,5-Trinitrobenzene	500.000	506.306	-1.3	101	0.00	3.64- 4.44
7	1,3-Dinitrobenzene	500.000	500.118	-0.0	100	0.00	4.81- 5.61
8	3,5-Dinitroaniline	500.000	454.560	9.1	93	0.00	5.15- 5.95
9	Nitrobenzene	500.000	520.071	-4.0	107	0.00	6.36- 7.16
10	Nitroglycerin	----------	NA	----------			
	----------	Amount	Calc.	%Drift	----------		
11	Tetryl	500.000	453.819	9.2	91	0.00	8.02- 8.82
12	2,4,6-Trinitrotoluene	500.000	452.135	9.6	88	0.00	8.43- 9.23
	----------	Amount	Calc.	%Drift	----------		
13	2-Amino-4,6-Dinitrotol	500.000	550.614	-10.1	109	0.00	8.74- 9.54
14	4-Amino-2,6-Dinitrotol	500.000	536.077	-7.2	113	0.00	9.18- 9.98
15 S	3,4-Dinitrotoluene	----------	NA	----------			
16	2,4-Dinitrotoluene	500.000	522.111	-4.4	106	0.00	10.19-10.99
17	2,6-Dinitrotoluene	500.000	529.283	-5.9	110	0.00	10.65-11.45
18	o-Nitrotoluene	500.000	530.446	-6.1	106	0.00	13.15-14.15
19	p-Nitrotoluene	500.000	519.093	-3.8	104	0.00	13.55-14.55
20	m-Nitrotoluene	500.000	501.639	-0.3	102	0.00	14.14-15.14
21	PETN	----------	NA	----------			
*****	Signal #2 *****						
1	TNX	500.000	523.061	-4.6	99	0.00	0.86- 1.46
2	HMX	500.000	553.128	-10.6	108	0.00	0.95- 1.55
	----------	Amount	Calc.	%Drift	----------		
3	DNX	500.000	501.805	-0.4	96	0.00	1.18- 1.78
	----------	Amount	Calc.	%Drift	----------		
4	MNX	500.000	505.165	-1.0	100	0.00	1.68- 2.28
5	RDX	500.000	501.413	-0.3	105	0.00	2.10- 2.90

Initial Calibration Verification

Job Number: FA41143
Account: ARCTXEL Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

Sample: GPP2066-ICV2066
Lab FileID: PP381209.D

6		1,3,5-Trinitrobenzene	500.000	504.165	-0.8	100	0.00	3.64- 4.44
7		1,3-Dinitrobenzene	500.000	487.765	2.4	96	0.00	4.81- 5.61
8		3,5-Dinitroaniline	500.000	457.607	8.5	94	0.00	5.15- 5.95
9		Nitrobenzene	500.000	520.766	-4.2	105	0.00	6.36- 7.16
10		Nitroglycerin	2500.000	2468.478	1.3	102	0.00	7.65- 8.65
11		Tetryl	500.000	401.246	19.8#	85	0.00	8.02- 8.82
12		2,4,6-Trinitrotoluene	500.000	461.904	7.6	92	0.00	8.43- 9.23
13		2-Amino-4,6-Dinitrotol	500.000	531.925	-6.4	110	0.00	8.74- 9.54
14		4-Amino-2,6-Dinitrotol	500.000	521.982	-4.4	109	0.01	9.18- 9.98
15	S	3,4-Dinitrotoluene	----------	NA	----------			
16		2,4-Dinitrotoluene	500.000	515.456	-3.1	105	0.00	10.19-10.99
		----------	Amount	Calc.	%Drift	----------		
17		2,6-Dinitrotoluene	500.000	560.739	-12.1	109	0.00	10.65-11.45
		----------	Amount	Calc.	%Drift	----------		
18		o-Nitrotoluene	500.000	540.645	-8.1	108	0.00	13.15-14.15
19		p-Nitrotoluene	500.000	544.654	-8.9	110	0.00	13.55-14.55
20		m-Nitrotoluene	500.000	516.969	-3.4	102	0.00	14.14-15.14
21		PETN	2500.000	2498.033	0.1	103	0.00	15.64-16.64

(#) = Out of Range SPCC's out = 0 CCC's out = 0
PP381206.D 8330-0118BPLUS.M Thu Jan 19 12:16:45 2017

Continuing Calibration Summary

Job Number: FA41143
Account: ARCTXEL Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

Sample: GPP2072-CC2066
Lab FileID: PP381324.D

Evaluate Continuing Calibration Report

Signal #1 : P:\DATA\0220BPL\PP381324.D\dad1B.ch Vial: 2
Signal #2 : P:\DATA\0220BPL\PP381324.D\dad1A.ch
Acq On : 20-Feb-2017, 10:01:34 Operator: evitam
Sample : cc2066-1000 Inst : G1315B
Misc : OP63863,GPP2072,2.00,,,20,,soil Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E

Method : C:\MSDCHEM\2\METHODS\8330-0118BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330A.8330B,8332
Last Update : Thu Jan 19 13:42:44 2017
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	TNX	1000.000	1027.657	-2.8	98	0.00	0.88- 1.48
2	HMX	1000.000	958.041	4.2	95	0.00	0.96- 1.56
	Amount	Calc.	%Drift				
3	DNX	1000.000	962.723	3.7	98	0.00	1.20- 1.80
	Amount	Calc.	%Drift				
4	MNX	1000.000	948.544	5.1	100	0.00	1.70- 2.30
5	RDX	1000.000	942.222	5.8	100	0.00	2.13- 2.93
6	1,3,5-Trinitrobenzene	1000.000	965.089	3.5	99	0.00	3.69- 4.49
7	1,3-Dinitrobenzene	1000.000	980.171	2.0	101	0.00	4.85- 5.65
8	3,5-Dinitroaniline	1000.000	954.415	4.6	101	0.00	5.21- 6.01
9	Nitrobenzene	1000.000	949.687	5.0	99	-0.01	6.40- 7.20
10	Nitroglycerin	----------NA----------					
	Amount	Calc.	%Drift				
11	Tetryl	1000.000	890.715	10.9	89	0.02	8.13- 8.93
12	2,4,6-Trinitrotoluene	1000.000	975.945	2.4	99	0.00	8.52- 9.32
	Amount	Calc.	%Drift				
13	2-Amino-4,6-Dinitrotol	1000.000	1011.667	-1.2	101	0.00	8.83- 9.63
14	4-Amino-2,6-Dinitrotol	1000.000	975.094	2.5	100	0.00	9.27-10.07
15 S	3,4-Dinitrotoluene	1000.000	989.667	1.0	101	0.00	9.63-10.43
16	2,4-Dinitrotoluene	1000.000	970.406	3.0	101	0.00	10.28-11.08
17	2,6-Dinitrotoluene	1000.000	960.659	3.9	101	0.00	10.75-11.55
18	o-Nitrotoluene	1000.000	949.394	5.1	99	-0.02	13.19-14.19
19	p-Nitrotoluene	1000.000	956.586	4.3	99	-0.02	13.59-14.59
20	m-Nitrotoluene	1000.000	964.567	3.5	100	-0.02	14.18-15.18
21	PETN	----------NA----------					
*****	Signal #2 *****						
1	TNX	1000.000	1020.251	-2.0	95	0.00	0.88- 1.48
2	HMX	1000.000	928.443	7.2	98	0.00	0.96- 1.56
	Amount	Calc.	%Drift				
3	DNX	1000.000	950.295	5.0	99	0.00	1.20- 1.80
	Amount	Calc.	%Drift				
4	MNX	1000.000	970.525	2.9	100	0.00	1.70- 2.30
5	RDX	1000.000	922.560	7.7	101	0.00	2.13- 2.93

Continuing Calibration Summary

Job Number: FA41143
Account: ARCTXEL Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

Sample: GPP2072-CC2066
Lab FileID: PP381324.D

6		1,3,5-Trinitrobenzene	1000.000	977.936	2.2	100	0.00	3.69- 4.49
7		1,3-Dinitrobenzene	1000.000	946.647	5.3	98	0.00	4.85- 5.65
8		3,5-Dinitroaniline	1000.000	951.474	4.9	100	0.00	5.21- 6.01
9		Nitrobenzene	1000.000	970.454	3.0	100	-0.01	6.40- 7.20
10		Nitroglycerin	5000.000	4764.573	4.7	102	0.03	7.76- 8.76
11		Tetryl	1000.000	827.441	17.3#	91	0.02	8.13- 8.93
12		2,4,6-Trinitrotoluene	1000.000	953.647	4.6	99	0.00	8.52- 9.32
13		2-Amino-4,6-Dinitrotol	1000.000	944.820	5.5	101	0.00	8.83- 9.63
14		4-Amino-2,6-Dinitrotol	1000.000	929.337	7.1	100	0.00	9.27-10.07
15	S	3,4-Dinitrotoluene	1000.000	961.237	3.9	104	0.00	9.63-10.43
16		2,4-Dinitrotoluene	1000.000	962.074	3.8	100	0.00	10.28-11.08
			Amount	Calc.	%Drift			
17		2,6-Dinitrotoluene	1000.000	1013.241	-1.3	102	0.00	10.75-11.55
			Amount	Calc.	%Drift			
18		o-Nitrotoluene	1000.000	988.090	1.2	104	-0.02	13.19-14.19
19		p-Nitrotoluene	1000.000	997.425	0.3	102	-0.02	13.59-14.59
20		m-Nitrotoluene	1000.000	988.184	1.2	101	-0.02	14.18-15.18
21		PETN	5000.000	4734.515	5.3	102	0.04	15.74-16.74

(#) = Out of Range SPCC's out = 0 CCC's out = 0
PP381207.D 8330-0118BPLUS.M Tue Feb 21 09:20:24 2017

6.7.7

Continuing Calibration Summary

Job Number: FA41143
Account: ARCTXEL Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

Sample: GPP2072-ECC2066
Lab FileID: PP381335.D

Evaluate Continuing Calibration Report

Signal #1 : P:\DATA\0220BPL\PP381335.D\dad1B.ch Vial: 2
Signal #2 : P:\DATA\0220BPL\PP381335.D\dad1A.ch
Acq On : 20-Feb-2017, 14:35:59 Operator: evitam
Sample : ecc2066-1000 Inst : G1315B
Misc : OP63860,GPP2072,10.0,,,50,,soil Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E

Method : C:\MSDCHEM\2\METHODS\8330-0118BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330A.8330B,8332
Last Update : Thu Jan 19 13:42:44 2017
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	TNX	1000.000	991.503	0.8	94	0.00	0.88- 1.48
2	HMX	1000.000	952.128	4.8	94	0.00	0.96- 1.56
	----------	Amount	Calc.	%Drift	----------		
3	DNX	1000.000	955.635	4.4	97	0.00	1.20- 1.80
	----------	Amount	Calc.	%Drift	----------		
4	MNX	1000.000	941.825	5.8	99	0.00	1.70- 2.30
5	RDX	1000.000	943.191	5.7	100	0.00	2.13- 2.93
6	1,3,5-Trinitrobenzene	1000.000	958.775	4.1	99	0.00	3.69- 4.49
7	1,3-Dinitrobenzene	1000.000	978.995	2.1	101	-0.02	4.85- 5.65
8	3,5-Dinitroaniline	1000.000	956.310	4.4	101	-0.02	5.21- 6.01
9	Nitrobenzene	1000.000	958.637	4.1	100	-0.03	6.40- 7.20
10	Nitroglycerin	----------NA----------					
	----------	Amount	Calc.	%Drift	----------		
11	Tetryl	1000.000	890.391	11.0	89	-0.01	8.13- 8.93
12	2,4,6-Trinitrotoluene	1000.000	970.971	2.9	98	-0.02	8.52- 9.32
	----------	Amount	Calc.	%Drift	----------		
13	2-Amino-4,6-Dinitrotol	1000.000	1007.278	-0.7	101	-0.03	8.83- 9.63
14	4-Amino-2,6-Dinitrotol	1000.000	966.399	3.4	99	-0.04	9.27-10.07
15 S	3,4-Dinitrotoluene	1000.000	976.279	2.4	100	-0.04	9.63-10.43
16	2,4-Dinitrotoluene	1000.000	961.908	3.8	100	-0.04	10.28-11.08
17	2,6-Dinitrotoluene	1000.000	940.995	5.9	99	-0.04	10.75-11.55
18	o-Nitrotoluene	1000.000	939.109	6.1	98	-0.04	13.19-14.19
19	p-Nitrotoluene	1000.000	946.688	5.3	98	-0.03	13.59-14.59
20	m-Nitrotoluene	1000.000	947.664	5.2	98	-0.03	14.18-15.18
21	PETN	----------NA----------					
*****	Signal #2 *****						
1	TNX	1000.000	1008.497	-0.8	94	0.00	0.88- 1.48
2	HMX	1000.000	915.306	8.5	96	0.00	0.96- 1.56
	----------	Amount	Calc.	%Drift	----------		
3	DNX	1000.000	933.610	6.6	97	0.00	1.20- 1.80
	----------	Amount	Calc.	%Drift	----------		
4	MNX	1000.000	969.916	3.0	100	0.00	1.70- 2.30
5	RDX	1000.000	918.465	8.2	101	0.00	2.13- 2.93

Continuing Calibration Summary

Job Number: FA41143
Account: ARCTXEL Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

Sample: GPP2072-ECC2066
Lab FileID: PP381335.D

6		1,3,5-Trinitrobenzene	1000.000	974.437	2.6	100	0.00	3.69- 4.49
7		1,3-Dinitrobenzene	1000.000	973.054	2.7	100	-0.02	4.85- 5.65
8		3,5-Dinitroaniline	1000.000	949.494	5.1	100	-0.02	5.21- 6.01
9		Nitrobenzene	1000.000	924.285	7.6	95	-0.03	6.40- 7.20
10		Nitroglycerin	5000.000	4770.783	4.6	102	0.01	7.76- 8.76
11		Tetryl	1000.000	812.602	18.7#	89	-0.02	8.13- 8.93
12		2,4,6-Trinitrotoluene	1000.000	951.127	4.9	99	-0.02	8.52- 9.32
13		2-Amino-4,6-Dinitrotol	1000.000	946.035	5.4	101	-0.03	8.83- 9.63
14		4-Amino-2,6-Dinitrotol	1000.000	928.962	7.1	100	-0.04	9.27-10.07
15	S	3,4-Dinitrotoluene	1000.000	956.635	4.3	104	-0.04	9.63-10.43
16		2,4-Dinitrotoluene	1000.000	963.817	3.6	100	-0.04	10.28-11.08

			Amount	Calc.	%Drift			
17		2,6-Dinitrotoluene	1000.000	1000.493	-0.0	100	-0.04	10.75-11.55

			Amount	Calc.	%Drift			
18		o-Nitrotoluene	1000.000	967.521	3.2	102	-0.04	13.19-14.19
19		p-Nitrotoluene	1000.000	954.607	4.5	98	-0.04	13.59-14.59
20		m-Nitrotoluene	1000.000	1033.202	-3.3	106	-0.03	14.18-15.18
21		PETN	5000.000	4617.628	7.6	99	0.04	15.74-16.74

(#) = Out of Range SPCC's out = 0 CCC's out = 0
PP381207.D 8330-0118BPLUS.M Tue Feb 21 09:20:25 2017

GC Semi-volatiles

Raw Data

Quantitation Report (QT Reviewed)

Signal #1 : P:\DATA\0220BPL\PP381331.D\dad1B.ch Vial: 9
Signal #2 : P:\DATA\0220BPL\PP381331.D\dad1A.ch
Acq On : 20-Feb-2017, 12:56:08 Operator: evitam
Sample : fa41143-1 Inst : G1315B
Misc : OP63860,GPP2072,10.0,,,50,,soil Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 20 14:54:09 2017 Quant Results File: 8330-0118BPLUS.RES

Quant Method : C:\MSDCHEM\2...\8330-0118BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330A.8330B,8332
Last Update : Thu Jan 19 13:42:44 2017
Response via : Initial Calibration
DataAcq Meth : 8330BPL.M

Volume Inj. : 100ul
Signal #1 Phase : Extend C-18 Signal #2 Phase: Extend C-18
Signal #1 Info : DAD 254/270nm Signal #2 Info : DAD 214/235nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
15) S	3,4-Dinitrotolue	10.02	10.02	981215	1813821	473.791	468.751
	Spiked Amount 500.000	Range 69 - 134		Recovery =		94.76%	93.75%
	Target Compounds						
1)	TNX	0.00	0.00	0	0	N.D.	N.D.
2)	HMX	0.00	0.00	0	0	N.D. d	N.D. d
3)	DNX	0.00	0.00	0	0	N.D. d	N.D. d
4)	MNX	0.00	0.00	0	0	N.D. d	N.D. d
5)	RDX	0.00	0.00	0	0	N.D. d	N.D. d
6)	1,3,5-Trinitrobe	0.00	0.00	0	0	N.D. d	N.D. d
7)	1,3-Dinitrobenze	0.00	0.00	0	0	N.D. d	N.D. d
8)	3,5-Dinitroanili	0.00	0.00	0	0	N.D. d	N.D. d
9)	Nitrobenzene	0.00	0.00	0	0	N.D. d	N.D. d
10)	Nitroglycerin	0.00	0.00	0	0	N.D. d	N.D. d
11)	Tetryl	0.00	0.00	0	0	N.D. d	N.D. d
12)	2,4,6-Trinitroto	0.00	0.00	0	0	N.D. d	N.D. d
13)	2-Amino-4,6-Dini	0.00	0.00	0	0	N.D. d	N.D. d
14)	4-Amino-2,6-Dini	0.00	0.00	0	0	N.D. d	N.D. d
16)	2,4-Dinitrotolue	0.00	0.00	0	0	N.D.	N.D.
17)	2,6-Dinitrotolue	0.00	0.00	0	0	N.D.	N.D.
18)	o-Nitrotoluene	0.00	0.00	0	0	N.D.	N.D.
19)	p-Nitrotoluene	0.00	0.00	0	0	N.D.	N.D.
20)	m-Nitrotoluene	0.00	0.00	0	0	N.D.	N.D.
21)	PETN	16.22	0.00	5195	0	NoCal	N.D.

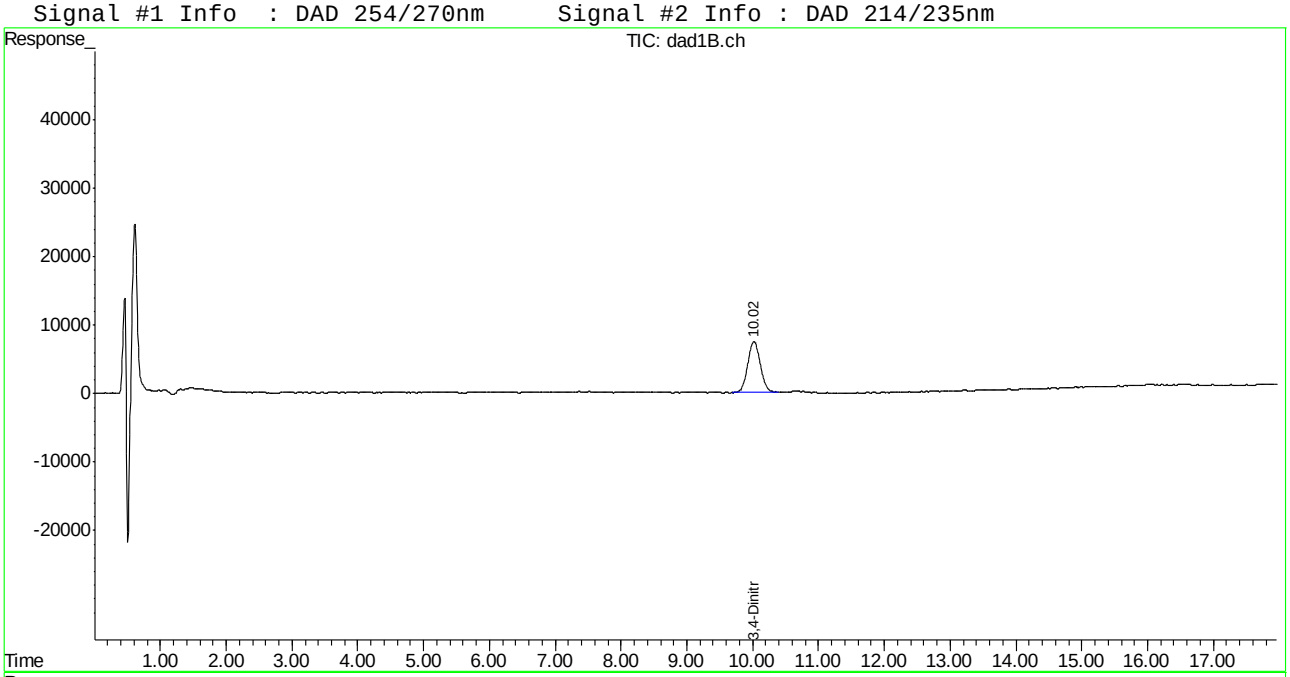
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
PP381331.D 8330-0118BPLUS.M Tue Feb 21 09:18:29 2017 Page 1

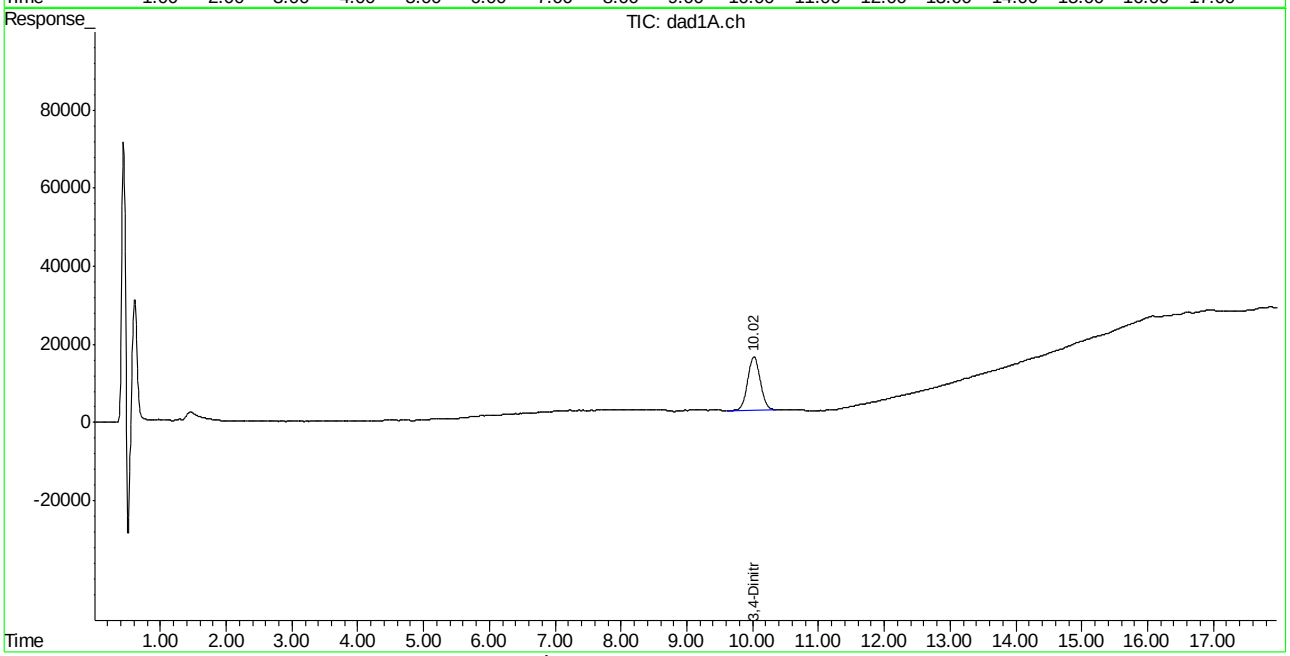
Quantitation Report (QT Reviewed)

Signal #1 : P:\DATA\0220BPL\PP381331.D\dad1B.ch Vial: 9
Signal #2 : P:\DATA\0220BPL\PP381331.D\dad1A.ch
Acq On : 20-Feb-2017, 12:56:08 Operator: evitam
Sample : fa41143-1 Inst : G1315B
Misc : OP63860,GPP2072,10.0,,,50,,soil Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 21 9:12 2017 Quant Results File: 8330-0118BPLUS.RES

Quant Method : C:\MSDCHEM\2...\8330-0118BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330A.8330B,8332
Last Update : Thu Jan 19 13:42:44 2017
Response via : Multiple Level Calibration
DataAcq Meth : 8330BPL.M

Volume Inj. : 100ul
Signal #1 Phase : Extend C-18 Signal #2 Phase: Extend C-18
Signal #1 Info : DAD 254/270nm Signal #2 Info : DAD 214/235nm





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ACCUTEST FA41143

Quantitation Report (QT Reviewed)

Signal #1 : P:\DATA\0220BPL\PP381329.D\dad1B.ch Vial: 7
Signal #2 : P:\DATA\0220BPL\PP381329.D\dad1A.ch
Acq On : 20-Feb-2017, 12:06:13 Operator: evitam
Sample : op63860-mb Inst : G1315B
Misc : OP63860,GPP2072,10.0,,,50,,soil Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 20 14:54:07 2017 Quant Results File: 8330-0118BPLUS.RES

Quant Method : C:\MSDCHEM\2...\8330-0118BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330A.8330B,8332
Last Update : Thu Jan 19 13:42:44 2017
Response via : Initial Calibration
DataAcq Meth : 8330BPL.M

Volume Inj. : 100ul
Signal #1 Phase : Extend C-18 Signal #2 Phase: Extend C-18
Signal #1 Info : DAD 254/270nm Signal #2 Info : DAD 214/235nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
15) S	3,4-Dinitrotolue	10.03	10.04	1015785	1875272	490.483	484.632
	Spiked Amount 500.000	Range 69 - 134		Recovery =		98.10%	96.93%
	Target Compounds						
1)	TNX	0.00	0.00	0	0	N.D.	N.D.
2)	HMX	0.00	0.00	0	0	N.D. d	N.D. d
3)	DNX	0.00	0.00	0	0	N.D. d	N.D. d
4)	MNX	0.00	0.00	0	0	N.D. d	N.D. d
5)	RDX	0.00	0.00	0	0	N.D. d	N.D. d
6)	1,3,5-Trinitrobe	0.00	0.00	0	0	N.D. d	N.D. d
7)	1,3-Dinitrobenze	0.00	0.00	0	0	N.D. d	N.D. d
8)	3,5-Dinitroanili	0.00	0.00	0	0	N.D. d	N.D. d
9)	Nitrobenzene	0.00	0.00	0	0	N.D. d	N.D. d
10)	Nitroglycerin	0.00	0.00	0	0	N.D. d	N.D. d
11)	Tetryl	0.00	0.00	0	0	N.D. d	N.D. d
12)	2,4,6-Trinitroto	0.00	0.00	0	0	N.D. d	N.D. d
13)	2-Amino-4,6-Dini	0.00	0.00	0	0	N.D.	N.D.
14)	4-Amino-2,6-Dini	0.00	0.00	0	0	N.D.	N.D.
16)	2,4-Dinitrotolue	0.00	0.00	0	0	N.D. d	N.D. d
17)	2,6-Dinitrotolue	0.00	0.00	0	0	N.D. d	N.D. d
18)	o-Nitrotoluene	0.00	0.00	0	0	N.D. d	N.D. d
19)	p-Nitrotoluene	0.00	0.00	0	0	N.D. d	N.D. d
20)	m-Nitrotoluene	0.00	0.00	0	0	N.D. d	N.D. d
21)	PETN	0.00	0.00	0	0	N.D. d	N.D. d

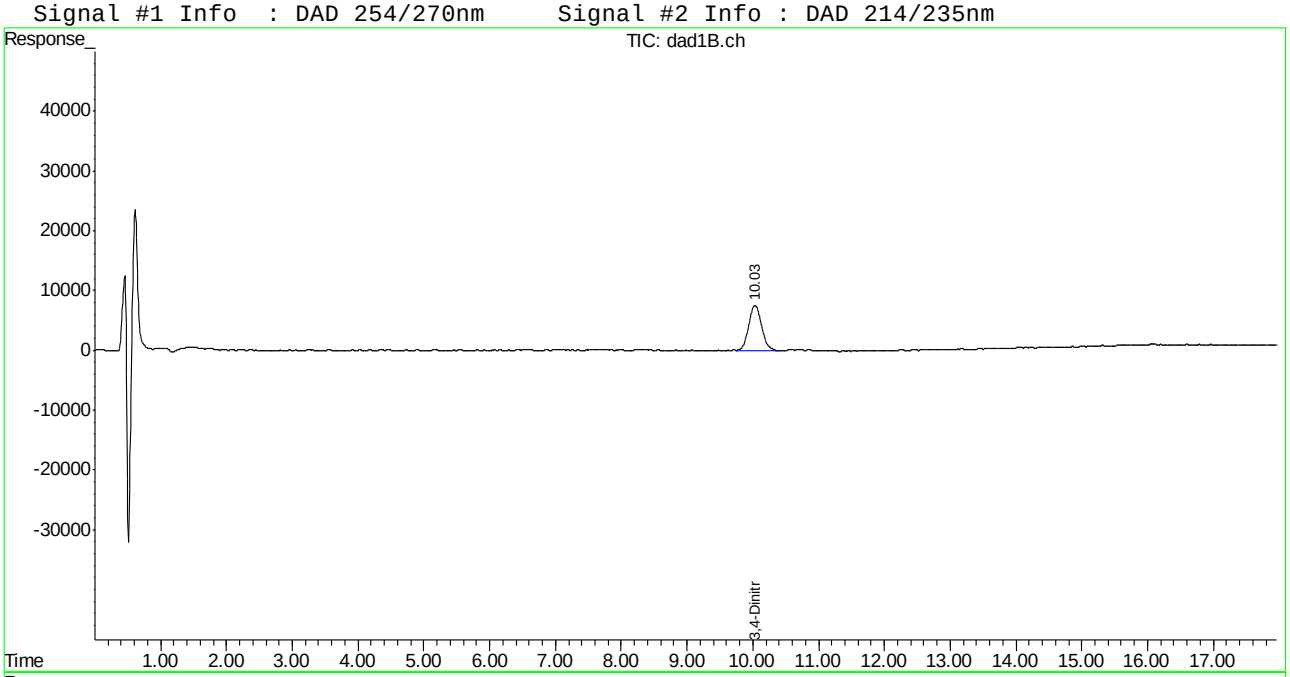
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
PP381329.D 8330-0118BPLUS.M Tue Feb 21 09:18:27 2017 Page 1

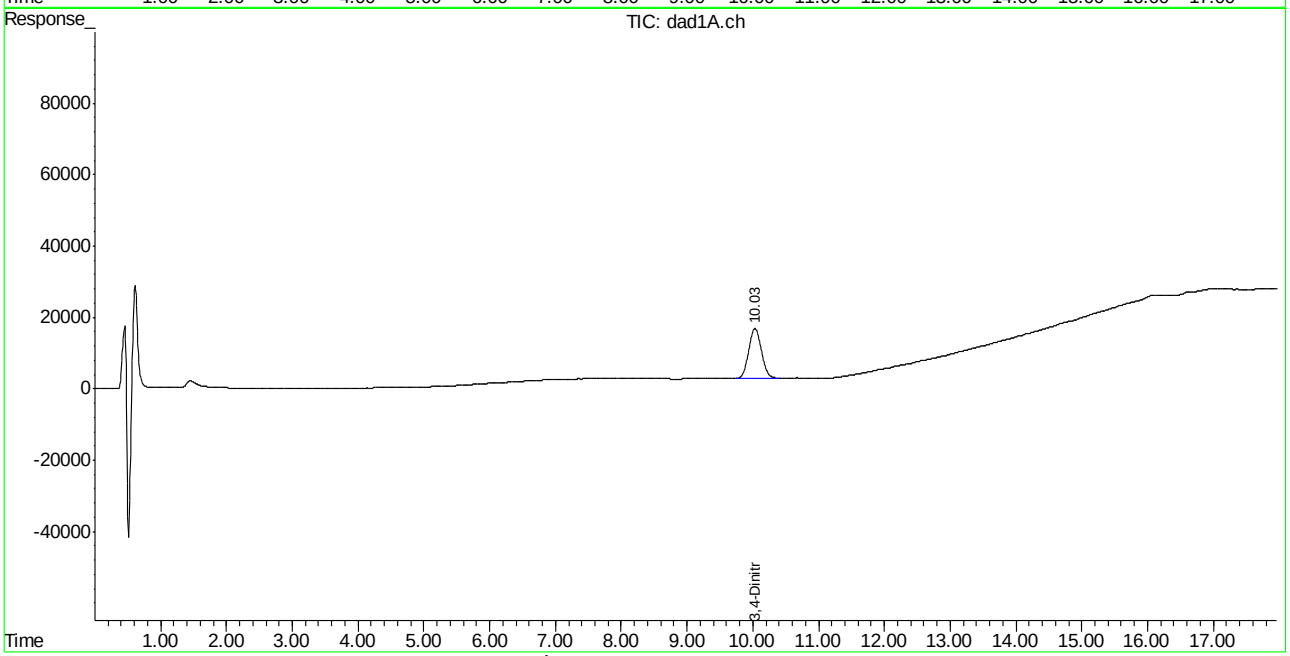
Quantitation Report (QT Reviewed)

Signal #1 : P:\DATA\0220BPL\PP381329.D\dad1B.ch Vial: 7
Signal #2 : P:\DATA\0220BPL\PP381329.D\dad1A.ch
Acq On : 20-Feb-2017, 12:06:13 Operator: evitam
Sample : op63860-mb Inst : G1315B
Misc : OP63860,GPP2072,10.0,,,50,,soil Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 21 9:08 2017 Quant Results File: 8330-0118BPLUS.RES

Quant Method : C:\MSDCHEM\2...\8330-0118BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330A.8330B,8332
Last Update : Thu Jan 19 13:42:44 2017
Response via : Multiple Level Calibration
DataAcq Meth : 8330BPL.M

Volume Inj. : 100ul
Signal #1 Phase : Extend C-18 Signal #2 Phase: Extend C-18
Signal #1 Info : DAD 254/270nm Signal #2 Info : DAD 214/235nm





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SGS ACCUTEST
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FA41143

(b) (6)

Quantitation Report (QT Reviewed)

Signal #1 : G:\DATA\0221RPB3\GG060989.D\dad1B.ch Vial: 5
Signal #2 : G:\DATA\0221RPB3\GG060989.D\dad1A.ch
Acq On : 21-Feb-2017, 11:23:13 Operator: kismetl
Sample : op63860-mb Inst : G1315B
Misc : OP63860,Ggg2508,10.0,,,50,,soil Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Feb 21 12:54:41 2017 Quant Results File: 8330RPB.M_1230.RES

Quant Method : C:\MSDCHEM\1...\8330RPB.M_1230.M (Chemstation Integrator)
Title : Explosives by 8330A,8330B,8332
Last Update : Tue Feb 21 10:30:23 2017
Response via : Initial Calibration
DataAcq Meth : 8330RPB3.M

Volume Inj. : 100ul
Signal #1 Phase : Bonus RP Signal #2 Phase: Bonus RP
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
12) S	3,4-Dinitrotolue	14.85	14.85	2516898	4859524	558.503	522.475m
	Spiked Amount 500.000	Range 69 - 134		Recovery =		111.70%	104.50%
	Target Compounds						
1)	TNX	0.00	0.00	0	0	N.D. d	N.D. d
2)	HMX	0.00	0.00	0	0	N.D. d	N.D. d
3)	DNX	0.00	0.00	0	0	N.D. d	N.D. d
4)	MNX	0.00	0.00	0	0	N.D. d	N.D. d
5)	1,3,5-Trinitrobe	0.00	0.00	0	0	N.D. d	N.D. d
6)	RDX	0.00	0.00	0	0	N.D. d	N.D. d
7)	1,3-Dinitrobenze	0.00	0.00	0	0	N.D. d	N.D. d
8)	Nitrobenzene	0.00	0.00	0	0	N.D. d	N.D. d
9)	2,4,6-Trinitroto	0.00	0.00	0	0	N.D. d	N.D. d
10)	Nitroglycerin	0.00	0.00	0	0	N.D. d	N.D. d
11)	Tetryl	0.00	0.00	0	0	N.D.	N.D.
13)	2,6-Dinitrotolue	0.00	0.00	0	0	N.D.	N.D.
14)	2,4-Dinitrotolue	0.00	0.00	0	0	N.D.	N.D.
15)	o-Nitrotoluene	0.00	0.00	0	0	N.D.	N.D.
16)	3,5-Dinitroanili	0.00	0.00	0	0	N.D.	N.D.
17)	p-Nitrotoluene	0.00	0.00	0	0	N.D.	N.D.
18)	4-Amino-2,6-Dini	0.00	0.00	0	0	N.D.	N.D.
19)	m-Nitrotoluene	0.00	0.00	0	0	N.D.	N.D.
20)	2-Amino-4,6-Dini	0.00	0.00	0	0	N.D.	N.D.
21)	PETN	0.00	0.00	0	0	N.D.	N.D.

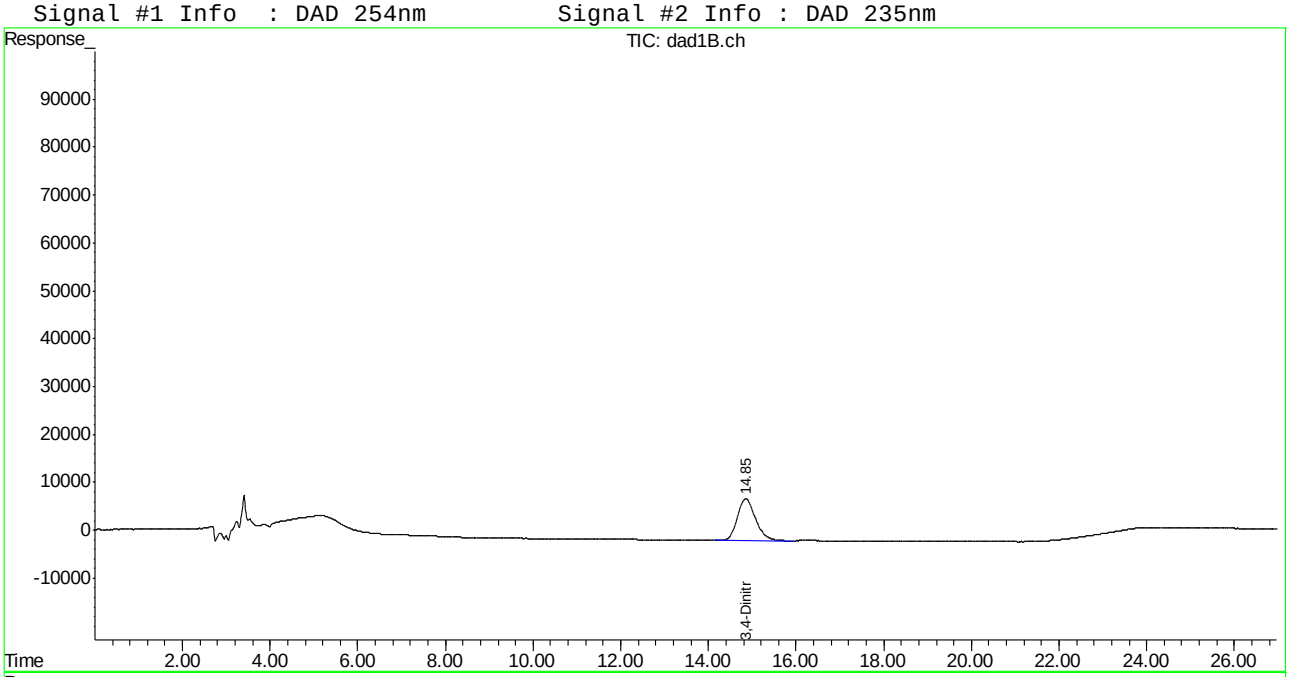
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
GG060989.D 8330RPB.M_1230.M Wed Feb 22 09:49:42 2017 Page 1

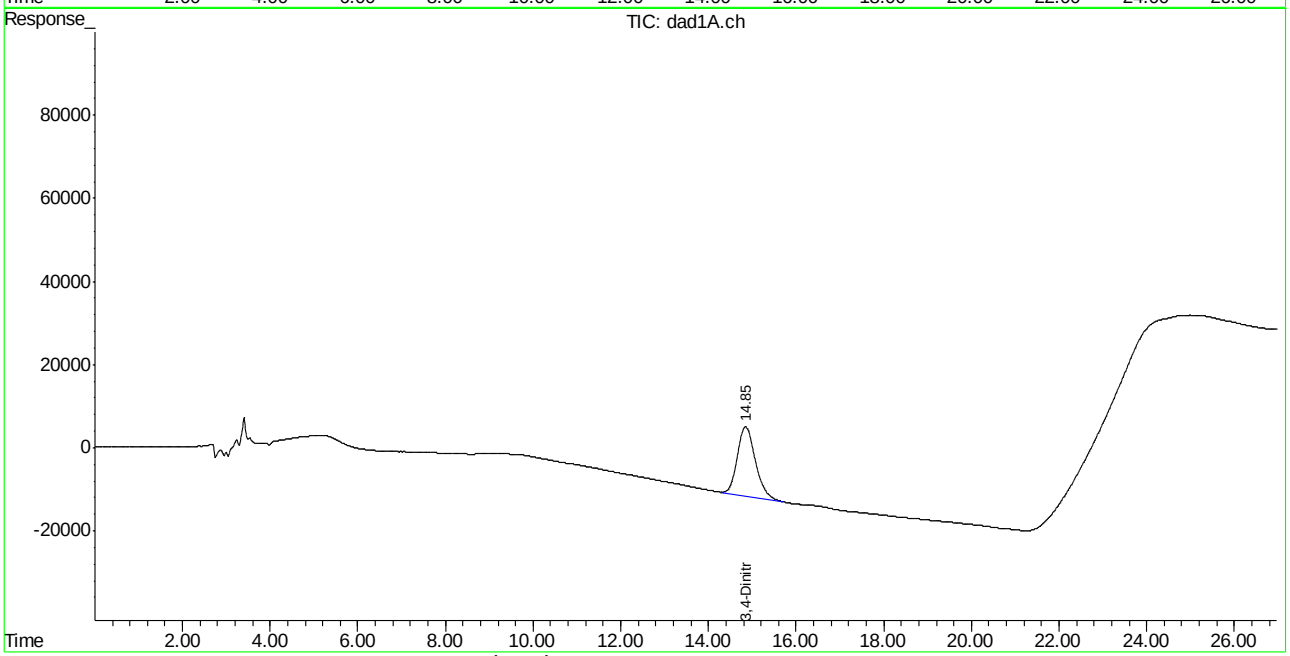
Quantitation Report (QT Reviewed)

Signal #1 : G:\DATA\0221RPB3\GG060989.D\dad1B.ch Vial: 5
Signal #2 : G:\DATA\0221RPB3\GG060989.D\dad1A.ch
Acq On : 21-Feb-2017, 11:23:13 Operator: kismetl
Sample : op63860-mb Inst : G1315B
Misc : OP63860,Ggg2508,10.0,,,50,,soil Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Feb 21 14:17 2017 Quant Results File: 8330RPB.M_1230.RES

Quant Method : C:\MSDCHEM\1...\8330RPB.M_1230.M (Chemstation Integrator)
Title : Explosives by 8330A,8330B,8332
Last Update : Tue Feb 21 10:30:23 2017
Response via : Multiple Level Calibration
DataAcq Meth : 8330RPB3.M

Volume Inj. : 100ul
Signal #1 Phase : Bonus RP Signal #2 Phase: Bonus RP
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235nm





SGS 011443 ACCUTEST FA41143

Manual Integration Approval Summary

Sample Number: OP63860-MB
Lab FileID: GG060989.D
Injection Time: 02/21/17 11:23
Method: SW846 8330B
Analyst approved: 02/22/17 09:54 (b) (6)
Supervisor approved: 02/23/17 17:37 (b) (6)

Parameter	CAS	Sig#	R.T. (min.)	Reason
3,4-Dinitrotoluene	610-39-9	2	14.85	Poorly defined baseline

(b) (6)

Quantitation Report (QT Reviewed)

Signal #1 : P:\DATA\0220BPL\PP381328.D\dad1B.ch Vial: 6
Signal #2 : P:\DATA\0220BPL\PP381328.D\dad1A.ch
Acq On : 20-Feb-2017, 11:41:17 Operator: evitam
Sample : op63860-bs Inst : G1315B
Misc : OP63860,GPP2072,10.0,,,50,,soil Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 20 14:54:06 2017 Quant Results File: 8330-0118BPLUS.RES

Quant Method : C:\MSDCHEM\2...\8330-0118BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330A.8330B,8332
Last Update : Thu Jan 19 13:42:44 2017
Response via : Initial Calibration
DataAcq Meth : 8330BPL.M

Volume Inj. : 100ul
Signal #1 Phase : Extend C-18 Signal #2 Phase: Extend C-18
Signal #1 Info : DAD 254/270nm Signal #2 Info : DAD 214/235nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
15) S	3,4-Dinitrotolue	10.03	10.03	986978	1834833	476.573	474.181
Spiked Amount	500.000	Range	69 - 134	Recovery	=	95.31%	94.84%
	Target Compounds						
1)	TNX	0.00	0.00	0	0	N.D. d	N.D. d
2)	HMX	1.28	1.28	771305	2125621	468.014m	443.517m
3)	DNX	0.00	0.00	0	0	N.D. d	N.D. d
4)	MNX	0.00	0.00	0	0	N.D.	N.D.
5)	RDX	2.54	2.54	874713	1401966	480.032	469.676
6)	1,3,5-Trinitrobe	4.09	4.09	1902345	3689863	467.095	474.678
7)	1,3-Dinitrobenze	5.25	5.25	2386523	1574955	471.511	464.357
8)	3,5-Dinitroanili	5.60	5.60	1906670	3219366	423.544	423.435
9)	Nitrobenzene	6.78	6.78	1480392	1497680	484.842	495.983
10)	Nitroglycerin	0.00	8.30	0	2945397	N.D. d	2192.099
11)	Tetryl	8.55	8.54	1345072	2286819	688.411	723.278
12)	2,4,6-Trinitroto	8.94	8.93	1574819	1975185	561.120	502.267
13)	2-Amino-4,6-Dini	9.23	9.23	1552710	2496812	502.436	490.573
14)	4-Amino-2,6-Dini	9.66	9.66	1115443	2382473	476.361	471.353
16)	2,4-Dinitrotolue	10.68	10.68	2262524	1417864	489.617	475.654
17)	2,6-Dinitrotolue	11.14	11.14	1288859	1532866	486.749	513.711
18)	o-Nitrotoluene	13.67	13.67	1093734	1615091	493.446	523.582m
19)	p-Nitrotoluene	14.07	14.07	1652197	1466896	482.112	513.325m
20)	m-Nitrotoluene	14.66	14.66	1552496	1905900	468.337	490.277m
21)	PETN	0.00	16.30	0	3347487	N.D. d	2256.101m

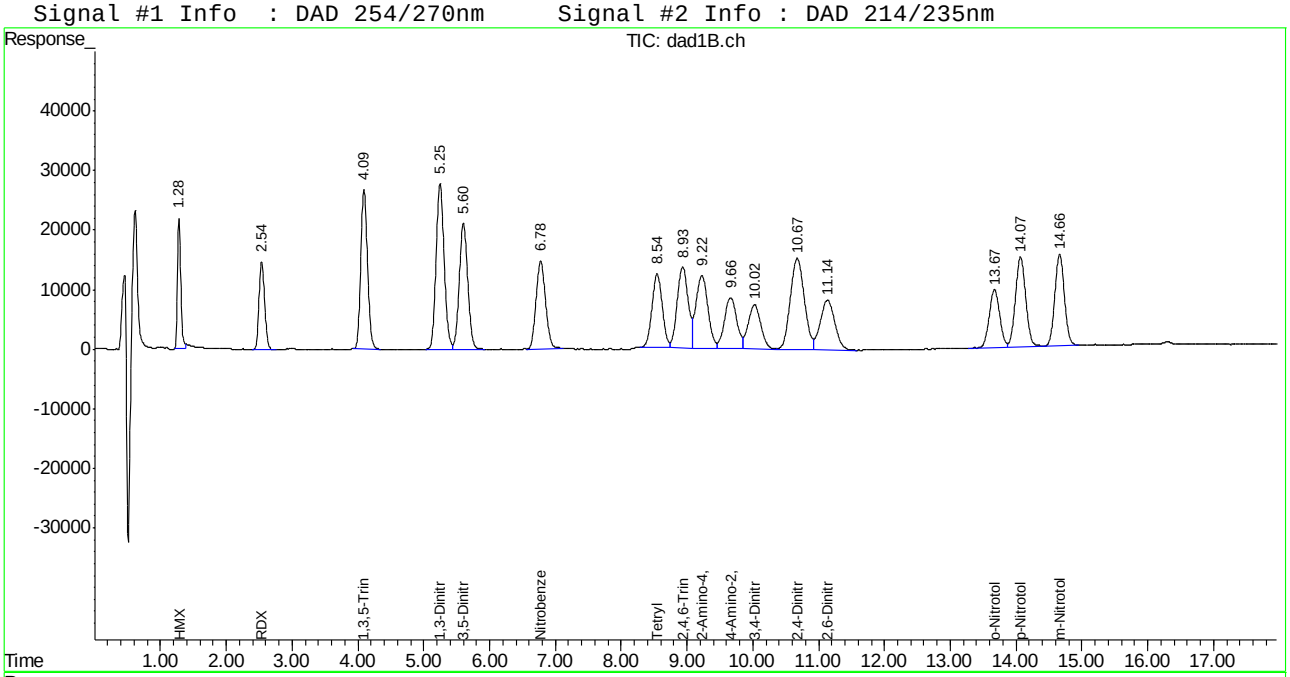
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
PP381328.D 8330-0118BPLUS.M Tue Feb 21 09:33:52 2017 Page 1

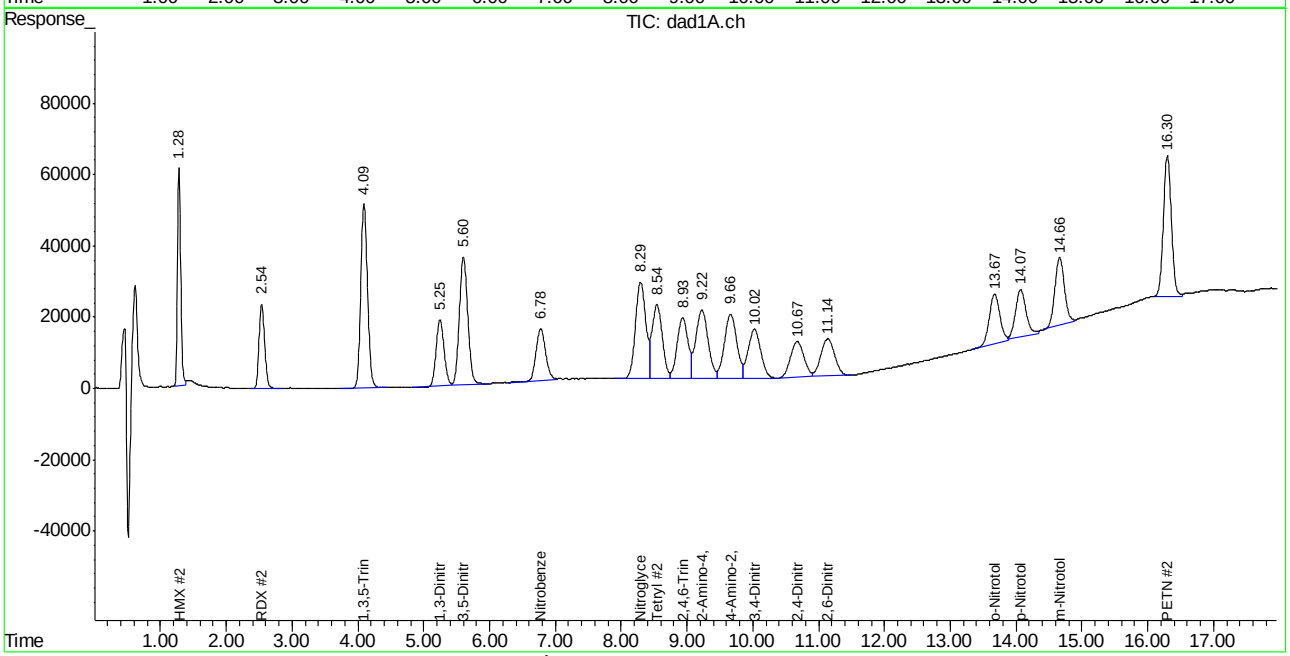
Quantitation Report (QT Reviewed)

Signal #1 : P:\DATA\0220BPL\PP381328.D\dad1B.ch Vial: 6
Signal #2 : P:\DATA\0220BPL\PP381328.D\dad1A.ch
Acq On : 20-Feb-2017, 11:41:17 Operator: evitam
Sample : op63860-bs Inst : G1315B
Misc : OP63860,GPP2072,10.0,,,50,,soil Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 21 9:32 2017 Quant Results File: 8330-0118BPLUS.RES

Quant Method : C:\MSDCHEM\2...\8330-0118BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330A.8330B,8332
Last Update : Thu Jan 19 13:42:44 2017
Response via : Multiple Level Calibration
DataAcq Meth : 8330BPL.M

Volume Inj. : 100ul
Signal #1 Phase : Extend C-18 Signal #2 Phase: Extend C-18
Signal #1 Info : DAD 254/270nm Signal #2 Info : DAD 214/235nm





SGS 011446
52 of 215
ACCUTEST FA41143

Manual Integration Approval Summary

Sample Number: OP63860-BS
Lab FileID: PP381328.D
Injection Time: 02/20/17 11:41
Method: SW846 8330B
Analyst approved: 02/21/17 09:37 (b) (6)
Supervisor approved: 02/23/17 17:37 (b) (6)

Parameter	CAS	Sig#	R.T. (min.)	Reason
HMX	2691-41-0	1	1.28	Poorly defined baseline
HMX	2691-41-0	2	1.28	Poorly defined baseline
o-Nitrotoluene	88-72-2	2	13.67	Poorly defined baseline
p-Nitrotoluene	99-99-0	2	14.07	Poorly defined baseline
m-Nitrotoluene	99-08-1	2	14.66	Poorly defined baseline
PETN	78-11-5	2	16.30	Poorly defined baseline

Manual Integrations

(b) (6)

Quantitation Report (QT Reviewed)

Signal #1 : P:\DATA\0220BPL\PP381334.D\dad1B.ch Vial: 12
Signal #2 : P:\DATA\0220BPL\PP381334.D\dad1A.ch
Acq On : 20-Feb-2017, 14:11:03 Operator: evitam
Sample : op63860-pt1 Inst : G1315B
Misc : OP63860,GPP2072,10.0,,,50,,soil Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 20 14:54:14 2017 Quant Results File: 8330-0118BPLUS.RES

Quant Method : C:\MSDCHEM\2...\8330-0118BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330A.8330B,8332
Last Update : Thu Jan 19 13:42:44 2017
Response via : Initial Calibration
DataAcq Meth : 8330BPL.M

Volume Inj. : 100ul
Signal #1 Phase : Extend C-18 Signal #2 Phase: Extend C-18
Signal #1 Info : DAD 254/270nm Signal #2 Info : DAD 214/235nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
15) S	3,4-Dinitrotolue	10.00	10.00	916352	1760994	442.471	455.099
	Spiked Amount 500.000	Range 69 - 134		Recovery =		88.49%	91.02%
	Target Compounds						
1)	TNX	0.00	0.00	0	0	N.D. d	N.D. d
2)	HMX	1.28	1.28	177609	463811	107.770m	96.775
3)	DNX	0.00	0.00	0	0	N.D. d	N.D. d
4)	MNX	0.00	0.00	0	0	N.D.	N.D.
5)	RDX	2.53	2.53	167165	258446	91.738m	86.583
6)	1,3,5-Trinitrobe	4.09	4.09	497877	985859	122.247	126.825
7)	1,3-Dinitrobenze	5.24	5.24	937445	557563	185.213	164.391
8)	3,5-Dinitroanili	5.59	5.59	1856295	3099492	412.354	407.668
9)	Nitrobenzene	6.77	6.77	652985	614853	213.858	203.619m
10)	Nitroglycerin	0.00	8.28	0	202711	N.D. d	150.867m
11)	Tetryl	8.52	8.52	243018	428064	126.798m	135.389
12)	2,4,6-Trinitroto	8.91	8.92	413082	486167	148.969m	123.627
13)	2-Amino-4,6-Dini	9.19	9.20	332609	517277	107.628m	101.634
14)	4-Amino-2,6-Dini	9.63	9.63	284936	555053	121.685m	109.813
16)	2,4-Dinitrotolue	10.64	10.65	504295	331268	109.131m	111.131m
17)	2,6-Dinitrotolue	11.18	11.18	618094	967658	233.429m	328.911m#
18)	o-Nitrotoluene	13.66	13.66	482554	669960	217.707m	217.188m
19)	p-Nitrotoluene	14.05	14.05	1153515	1100017	336.596	384.940m
20)	m-Nitrotoluene	14.65	14.65	581706	686831	175.481	176.682m
21)	PETN	0.00	16.29	0	242242	N.D. d	163.264m

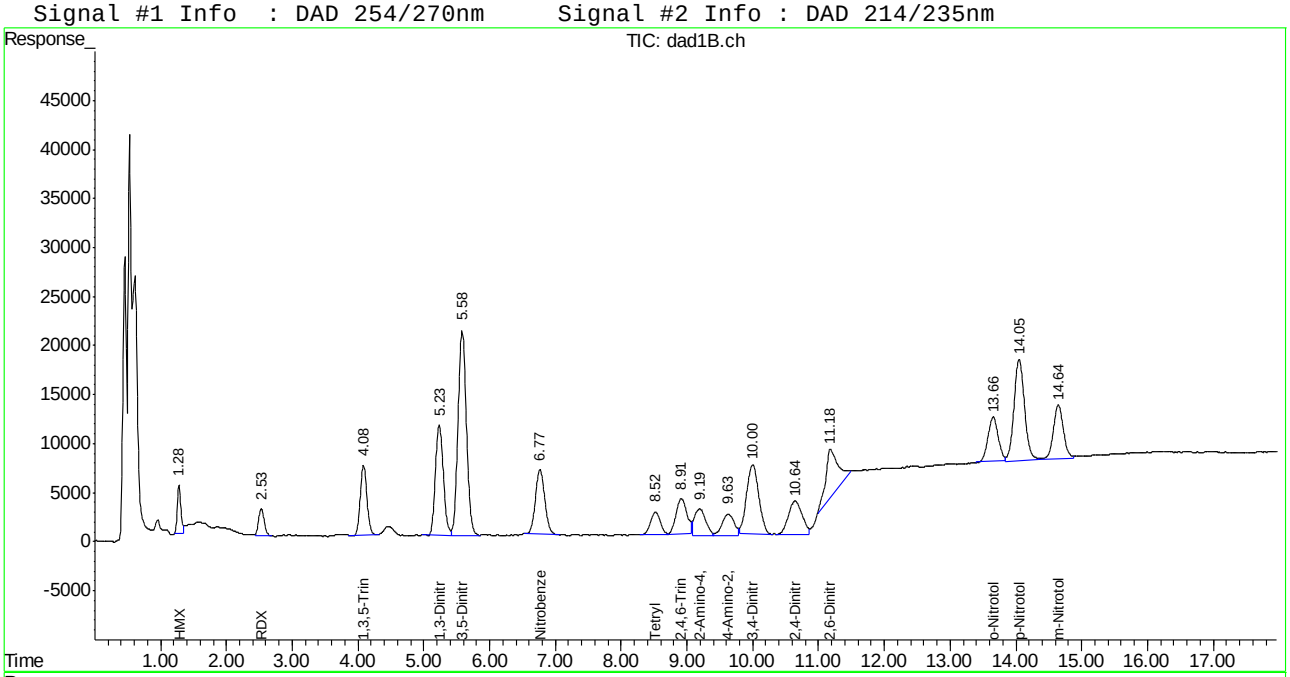
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
PP381334.D 8330-0118BPLUS.M Wed Feb 22 09:57:29 2017 Page 1

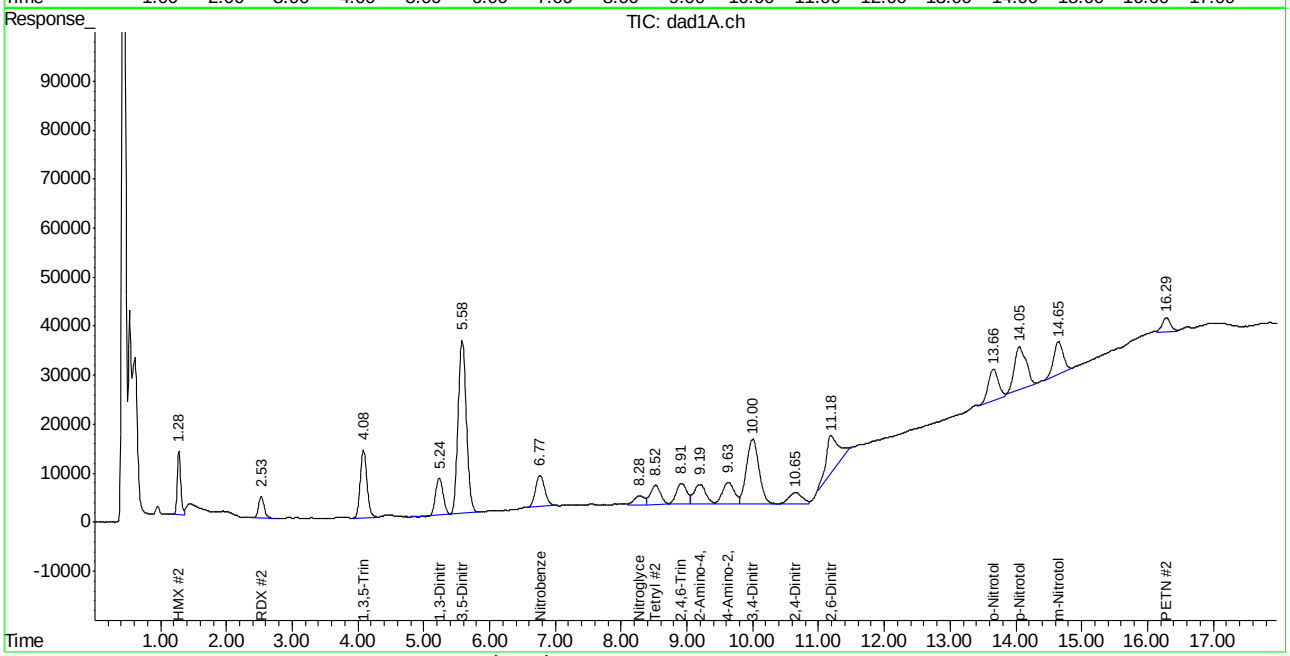
Quantitation Report (QT Reviewed)

Signal #1 : P:\DATA\0220BPL\PP381334.D\dad1B.ch Vial: 12
Signal #2 : P:\DATA\0220BPL\PP381334.D\dad1A.ch
Acq On : 20-Feb-2017, 14:11:03 Operator: evitam
Sample : op63860-pt1 Inst : G1315B
Misc : OP63860,GPP2072,10.0,,,50,,soil Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 22 9:57 2017 Quant Results File: 8330-0118BPLUS.RES

Quant Method : C:\MSDCHEM\2...\8330-0118BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330A.8330B,8332
Last Update : Thu Jan 19 13:42:44 2017
Response via : Multiple Level Calibration
DataAcq Meth : 8330BPL.M

Volume Inj. : 100ul
Signal #1 Phase : Extend C-18 Signal #2 Phase: Extend C-18
Signal #1 Info : DAD 254/270nm Signal #2 Info : DAD 214/235nm





SGS 011449 ACCUTEST FA41143

Manual Integration Approval Summary

Sample Number: OP63860-PT1 **Method:** SW846 8330B
Lab FileID: PP381334.D **Analyst approved:** 02/22/17 09:58 (b) (6)
Injection Time: 02/20/17 14:11 **Supervisor approved:** 02/23/17 17:37 (b) (6)

Parameter	CAS	Sig#	R.T. (min.)	Reason
HMX	2691-41-0	1	1.28	Poor instrument integration
RDX	121-82-4	1	2.53	Poor instrument integration
Nitrobenzene	98-95-3	2	6.77	Poor instrument integration
Nitroglycerine	55-63-0	2	8.28	Poor instrument integration
Tetryl	479-45-8	1	8.52	Poor instrument integration
2,4,6-Trinitrotoluene	118-96-7	1	8.91	Poor instrument integration
2-amino-4,6-Dinitrotoluene	35572-78-2	1	9.19	Poor instrument integration
4-amino-2,6-Dinitrotoluene	19406-51-0	1	9.63	Poor instrument integration
2,4-Dinitrotoluene	121-14-2	1	10.64	Poor instrument integration
2,4-Dinitrotoluene	121-14-2	2	10.65	Poor instrument integration
2,6-Dinitrotoluene	606-20-2	1	11.18	Poor instrument integration
2,6-Dinitrotoluene	606-20-2	2	11.18	Poor instrument integration
o-Nitrotoluene	88-72-2	1	13.66	Poor instrument integration
o-Nitrotoluene	88-72-2	2	13.66	Poor instrument integration
p-Nitrotoluene	99-99-0	2	14.05	Poor instrument integration
m-Nitrotoluene	99-08-1	2	14.65	Poor instrument integration
PETN	78-11-5	2	16.29	Poor instrument integration

Manual Integrations APPROVED (compounds with "m" flag)

(b) (6)

Quantitation Report (QT Reviewed)

Signal #1 : P:\DATA\0220BPL\PP381332.D\dad1B.ch Vial: 10
Signal #2 : P:\DATA\0220BPL\PP381332.D\dad1A.ch
Acq On : 20-Feb-2017, 13:21:06 Operator: evitam
Sample : op63860-ms Inst : G1315B
Misc : OP63860,GPP2072,10.0,,,50,,soil Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 20 14:54:10 2017 Quant Results File: 8330-0118BPLUS.RES

Quant Method : C:\MSDCHEM\2...\8330-0118BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330A.8330B,8332
Last Update : Thu Jan 19 13:42:44 2017
Response via : Initial Calibration
DataAcq Meth : 8330BPL.M

Volume Inj. : 100ul
Signal #1 Phase : Extend C-18 Signal #2 Phase: Extend C-18
Signal #1 Info : DAD 254/270nm Signal #2 Info : DAD 214/235nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
15) S	3,4-Dinitrotolue	10.01	10.01	983224	1831918	474.761	473.428
Spiked Amount	500.000	Range 69 - 134		Recovery =		94.95%	94.69%
	Target Compounds						
1)	TNX	0.00	0.00	0	0	N.D. d	N.D. d
2)	HMX	1.28	1.28	788059	2079594	478.181m	433.913
3)	DNX	0.00	0.00	0	0	N.D. d	N.D. d
4)	MNX	0.00	0.00	0	0	N.D.	N.D.
5)	RDX	2.54	2.54	766386	1244891	420.583	417.054
6)	1,3,5-Trinitrobe	4.09	4.09	1813699	3543900	445.329	455.901
7)	1,3-Dinitrobenze	5.25	5.24	2305663	1563159	455.535	460.879m
8)	3,5-Dinitroanili	5.60	5.60	1830908	3079496	406.715	405.038
9)	Nitrobenzene	6.78	6.77	1444116	1408882	472.961	466.576m
10)	Nitroglycerin	0.00	8.29	0	3077283	N.D. d	2290.255
11)	Tetryl	8.54	8.54	1297443	2194082	664.573	693.947
12)	2,4,6-Trinitroto	8.93	8.93	1530814	1914936	545.685	486.946
13)	2-Amino-4,6-Dini	9.22	9.22	1500342	2430758	485.491	477.595
14)	4-Amino-2,6-Dini	9.65	9.65	1079054	2297885	460.820	454.618
16)	2,4-Dinitrotolue	10.66	10.66	2214191	1367877	479.158	458.885
17)	2,6-Dinitrotolue	11.12	11.13	1247241	1465889	471.032	492.074
18)	o-Nitrotoluene	13.66	13.66	1061780	1509043	479.029	489.203m
19)	p-Nitrotoluene	14.06	14.06	1612639	1334590	470.569	467.026m
20)	m-Nitrotoluene	14.65	14.65	1561009	1860488	470.905	478.595m
21)	PETN	0.00	16.29	0	3298294	N.D. d	2222.947m

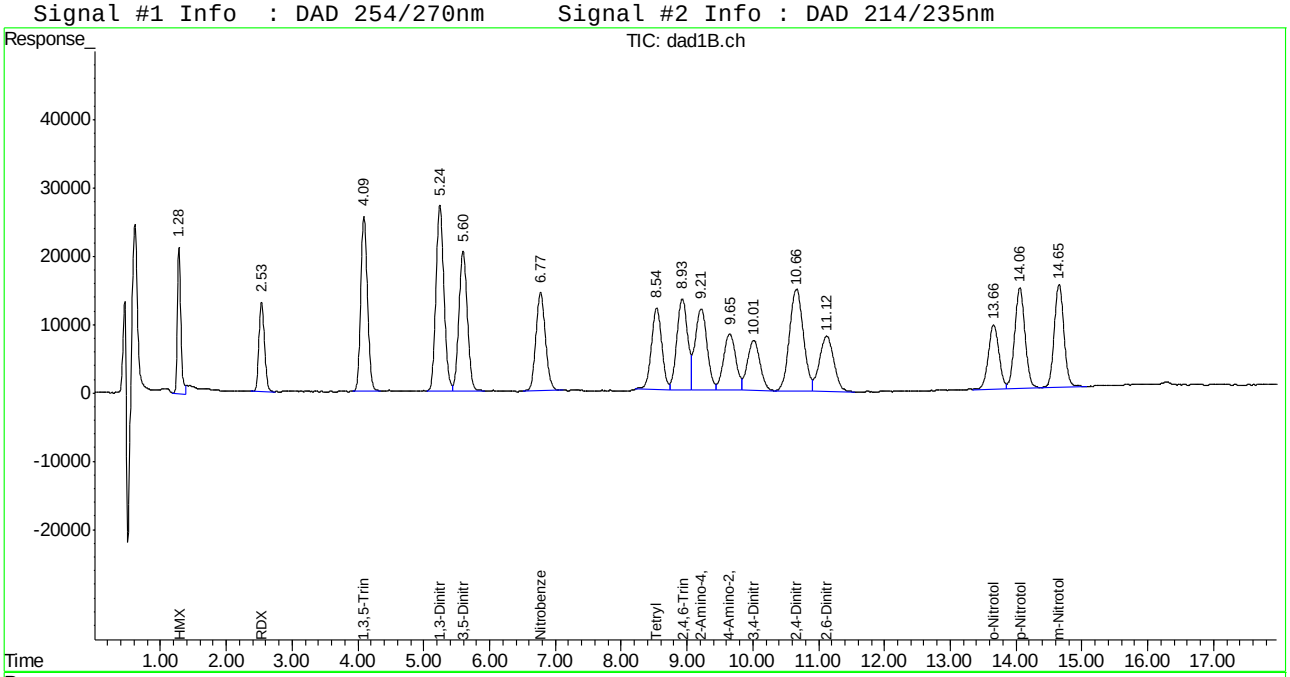
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
PP381332.D 8330-0118BPLUS.M Tue Feb 21 09:36:16 2017 Page 1

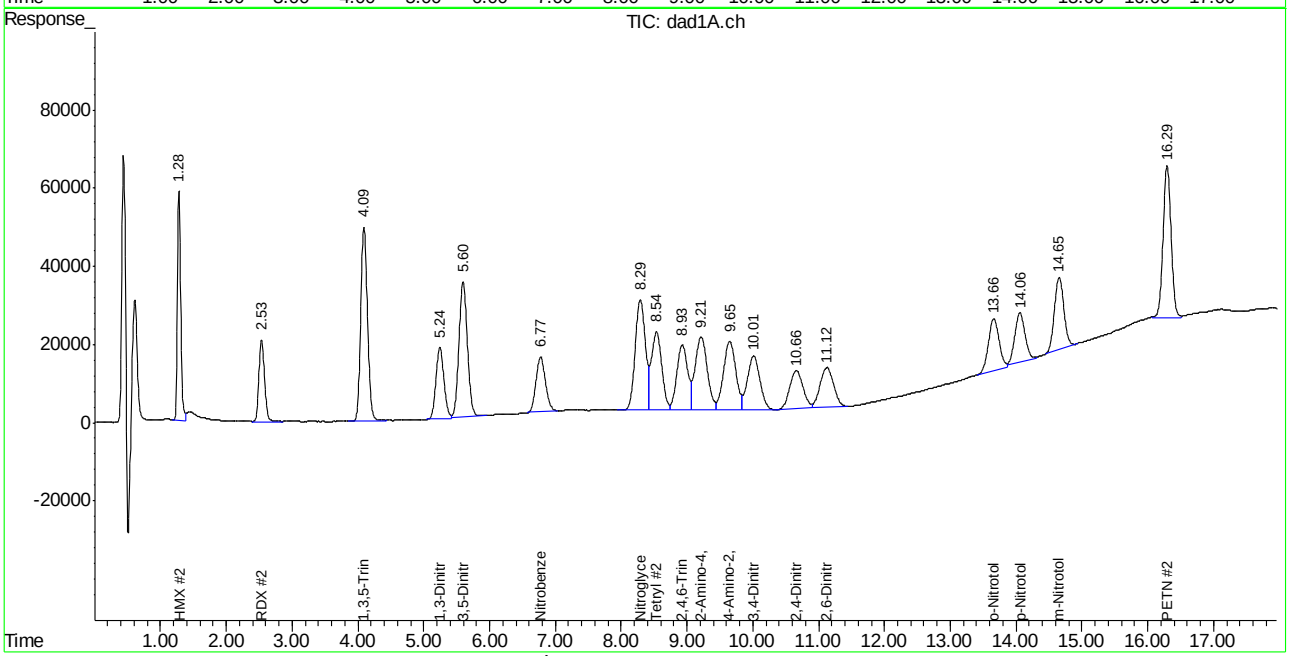
Quantitation Report (QT Reviewed)

Signal #1 : P:\DATA\0220BPL\PP381332.D\dad1B.ch Vial: 10
Signal #2 : P:\DATA\0220BPL\PP381332.D\dad1A.ch
Acq On : 20-Feb-2017, 13:21:06 Operator: evitam
Sample : op63860-ms Inst : G1315B
Misc : OP63860,GPP2072,10.0,,,50,,soil Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 21 9:33 2017 Quant Results File: 8330-0118BPLUS.RES

Quant Method : C:\MSDCHEM\2...\8330-0118BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330A.8330B,8332
Last Update : Thu Jan 19 13:42:44 2017
Response via : Multiple Level Calibration
DataAcq Meth : 8330BPL.M

Volume Inj. : 100ul
Signal #1 Phase : Extend C-18 Signal #2 Phase: Extend C-18
Signal #1 Info : DAD 254/270nm Signal #2 Info : DAD 214/235nm





SGS 011452
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ACCUTEST FA41143

Manual Integration Approval Summary

Sample Number: OP63860-MS
Lab FileID: PP381332.D
Injection Time: 02/20/17 13:21
Method: SW846 8330B
Analyst approved: 02/21/17 09:37 (b) (6)
Supervisor approved: 02/23/17 17:37 (b) (6)

Parameter	CAS	Sig#	R.T. (min.)	Reason
HMX	2691-41-0	1	1.28	Poorly defined baseline
1,3-Dinitrobenzene	99-65-0	2	5.24	Poorly defined baseline
Nitrobenzene	98-95-3	2	6.77	Poorly defined baseline
o-Nitrotoluene	88-72-2	2	13.66	Poorly defined baseline
p-Nitrotoluene	99-99-0	2	14.06	Poorly defined baseline
m-Nitrotoluene	99-08-1	2	14.65	Poorly defined baseline
PETN	78-11-5	2	16.29	Poorly defined baseline

Manual Integrations APPROVED (compounds with "m" flag)

(b) (6)

Quantitation Report (QT Reviewed)

Signal #1 : P:\DATA\0220BPL\PP381333.D\dad1B.ch Vial: 11
Signal #2 : P:\DATA\0220BPL\PP381333.D\dad1A.ch
Acq On : 20-Feb-2017, 13:46:07 Operator: evitam
Sample : op63860-msd Inst : G1315B
Misc : OP63860,GPP2072,10.0,,,50,,soil Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 20 14:54:11 2017 Quant Results File: 8330-0118BPLUS.RES

Quant Method : C:\MSDCHEM\2...\8330-0118BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330A.8330B,8332
Last Update : Thu Jan 19 13:42:44 2017
Response via : Initial Calibration
DataAcq Meth : 8330BPL.M

Volume Inj. : 100ul
Signal #1 Phase : Extend C-18 Signal #2 Phase: Extend C-18
Signal #1 Info : DAD 254/270nm Signal #2 Info : DAD 214/235nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
15) S	3,4-Dinitrotolue	10.03	10.02	987767	1832711	476.954	473.633
Spiked Amount	500.000	Range 69 - 134		Recovery =		95.39%	94.73%
	Target Compounds						
1)	TNX	0.00	0.00	0	0	N.D. d	N.D. d
2)	HMX	1.28	1.28	803635	2103750	487.632m	438.953
3)	DNX	0.00	0.00	0	0	N.D. d	N.D. d
4)	MNX	0.00	0.00	0	0	N.D.	N.D.
5)	RDX	2.54	2.54	789793	1260575	433.429	422.308
6)	1,3,5-Trinitrobe	4.09	4.09	1847806	3592642	453.703	462.171
7)	1,3-Dinitrobenze	5.24	5.24	2346101	1586399	463.524	467.731
8)	3,5-Dinitroanili	5.60	5.60	1873967	3159982	416.280	415.625
9)	Nitrobenzene	6.78	6.78	1464024	1446762	479.481	479.120
10)	Nitroglycerin	0.00	8.29	0	3134466	N.D. d	2332.813
11)	Tetryl	8.55	8.54	1277763	2209573	654.712	698.846
12)	2,4,6-Trinitroto	8.93	8.93	1543881	1943760	550.270	494.276
13)	2-Amino-4,6-Dini	9.22	9.22	1516103	2458303	490.591	483.007
14)	4-Amino-2,6-Dini	9.66	9.66	1089496	2337375	465.280	462.431
16)	2,4-Dinitrotolue	10.67	10.67	2257111	1409457	488.446	472.834
17)	2,6-Dinitrotolue	11.13	11.13	1281792	1512933	484.080	507.279
18)	o-Nitrotoluene	13.67	13.67	1110385	1543545	500.958	500.388m
19)	p-Nitrotoluene	14.07	14.07	1677826	1348720	489.590	471.971m
20)	m-Nitrotoluene	14.66	14.66	1640206	1899247	494.796	488.565m
21)	PETN	0.00	16.30	0	3258909	N.D. d	2196.402m

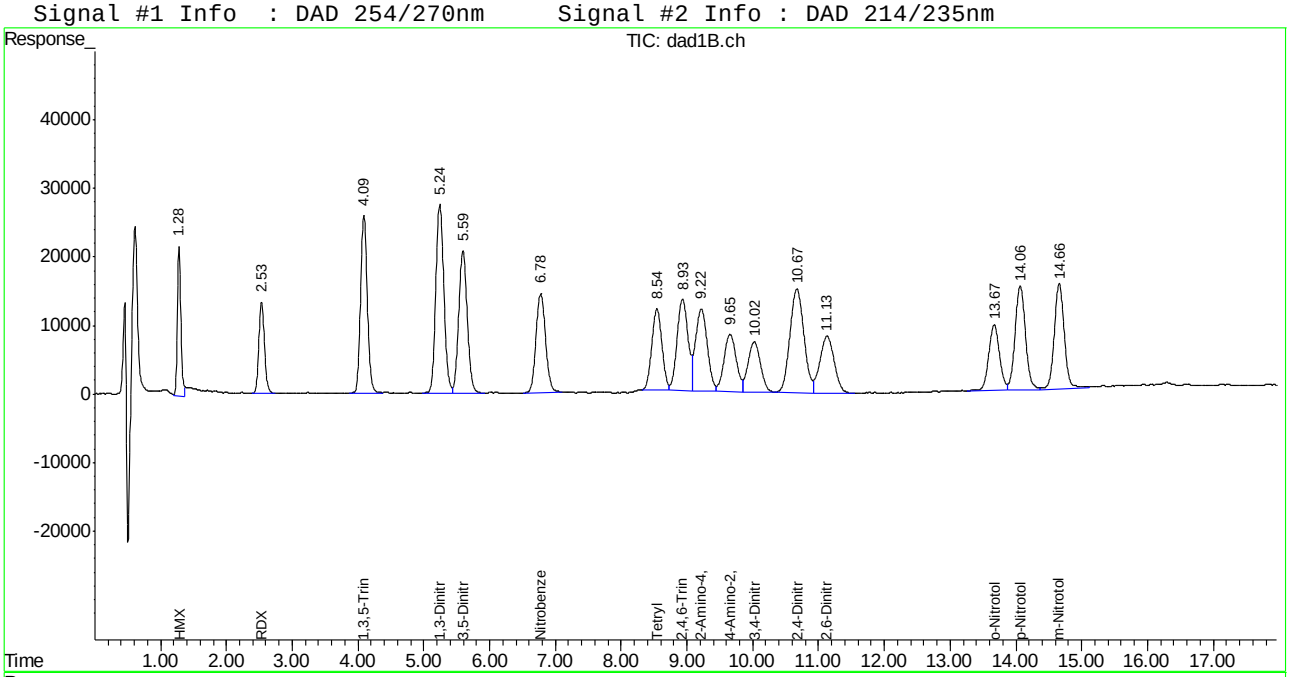
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
PP381333.D 8330-0118BPLUS.M Tue Feb 21 09:36:17 2017 Page 1

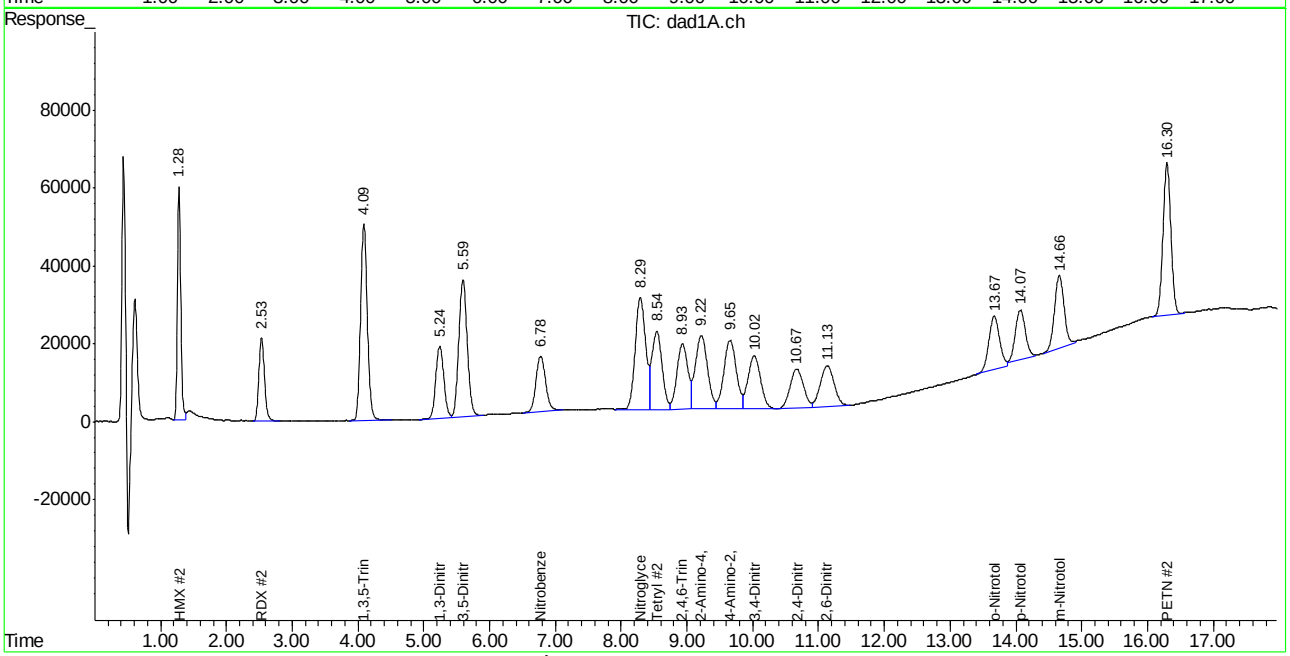
Quantitation Report (QT Reviewed)

Signal #1 : P:\DATA\0220BPL\PP381333.D\dad1B.ch Vial: 11
Signal #2 : P:\DATA\0220BPL\PP381333.D\dad1A.ch
Acq On : 20-Feb-2017, 13:46:07 Operator: evitam
Sample : op63860-msd Inst : G1315B
Misc : OP63860,GPP2072,10.0,,,50,,soil Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 21 9:33 2017 Quant Results File: 8330-0118BPLUS.RES

Quant Method : C:\MSDCHEM\2...\8330-0118BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330A.8330B,8332
Last Update : Thu Jan 19 13:42:44 2017
Response via : Multiple Level Calibration
DataAcq Meth : 8330BPL.M

Volume Inj. : 100ul
Signal #1 Phase : Extend C-18 Signal #2 Phase: Extend C-18
Signal #1 Info : DAD 254/270nm Signal #2 Info : DAD 214/235nm





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SGS 011455
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ACCUTEST
FA41143

Manual Integration Approval Summary

Sample Number: OP63860-MSD
Lab FileID: PP381333.D
Injection Time: 02/20/17 13:46
Method: SW846 8330B
Analyst approved: 02/21/17 09:37 (b) (6)
Supervisor approved: 02/23/17 17:37 (b) (6)

Parameter	CAS	Sig#	R.T. (min.)	Reason
HMX	2691-41-0	1	1.28	Poorly defined baseline
o-Nitrotoluene	88-72-2	2	13.67	Poorly defined baseline
p-Nitrotoluene	99-99-0	2	14.07	Poorly defined baseline
m-Nitrotoluene	99-08-1	2	14.66	Poorly defined baseline
PETN	78-11-5	2	16.30	Poorly defined baseline

Manual Integrations APPROVED

(b) (6)

Quantitation Report (QT Reviewed)

Signal #1 : G:\DATA\1230RPB3\GG060857.D\dad1B.ch Vial: 21
Signal #2 : G:\DATA\1230RPB3\GG060857.D\dad1A.ch
Acq On : 30-Dec-2016, 14:43:19 Operator: kismetl
Sample : ic2500-20 Inst : G1315B
Misc : OP63245,GGG2500,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jan 03 09:28:01 2017 Quant Results File: 8330RPB.M_1214.RES

Quant Method : C:\MSDCHEM\1...\8330RPB.M_1214.M (Chemstation Integrator)
Title : Explosives by 8330A,8330B,8332
Last Update : Tue Jan 03 09:27:45 2017
Response via : Initial Calibration
DataAcq Meth : 8330RPB3.M

Volume Inj. : 100ul
Signal #1 Phase : Bonus RP Signal #2 Phase: Bonus RP
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
12) S	3,4-Dinitrotolue	14.83	14.80	79217	123536	17.130m	13.041m
	Spiked Amount 500.000	Range 70 - 136		Recovery =		3.43%#	2.61%#
	Target Compounds						
1)	TNX	4.62	4.62	151268	154713	18.140m	19.254m
2)	HMX	4.99	4.99	57657	61672	20.449m	22.206m
3)	DNX	5.15	5.15	137853	124825	18.205m	16.558m
4)	MNX	6.04	6.04	86237	84161	16.903m	16.544m
5)	1,3,5-Trinitrobe	7.03	7.03	151218	149453	16.646m	16.460m
6)	RDX	7.39	7.39	49489	49489	11.701	11.891
7)	1,3-Dinitrobenze	9.50	9.50	336847	299632	27.415	32.777m
8)	Nitrobenzene	10.57	10.55	136668	66488	17.362	8.001m#
9)	2,4,6-Trinitroto	11.64	11.69	110781	153329	17.956	18.129m
10)	Nitroglycerin	0.00	12.49	0	375020	N.D.	109.431m#
11)	Tetryl	13.44	13.34	76049	175891	16.800m	20.936m
13)	2,6-Dinitrotolue	15.30	15.33	133344	77917	18.388m	7.794m#
14)	2,4-Dinitrotolue	16.28	16.30	216518	247871	19.071	33.396m#
15)	o-Nitrotoluene	18.74	18.63	73961	54535	13.514m	7.205m#
16)	3,5-Dinitroanili	18.06	18.04	182031	435053	19.478m	28.606m#
17)	p-Nitrotoluene	20.57	20.57	40910	30751	11.295m	5.950m#
18)	4-Amino-2,6-Dini	21.34	21.43	8220	2745	1.357m	0.254m#
19)	m-Nitrotoluene	22.78	22.78	64389	40443	12.867m	6.248m#
20)	2-Amino-4,6-Dini	23.68	23.68	163973	2298	20.405m	0.211m#
21)	PETN	0.00	24.83	0	311263	N.D. d	100.166m

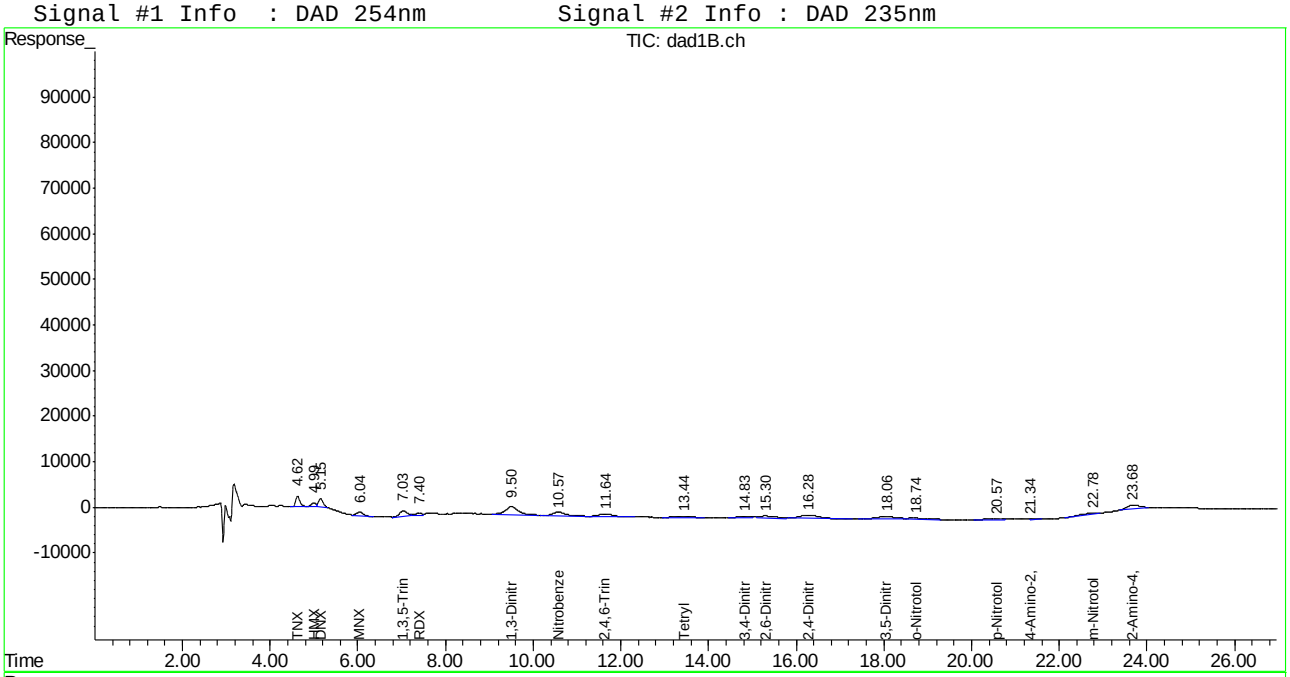
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
GG060857.D 8330RPB.M_1230.M Tue Jan 03 11:14:16 2017 Page 1

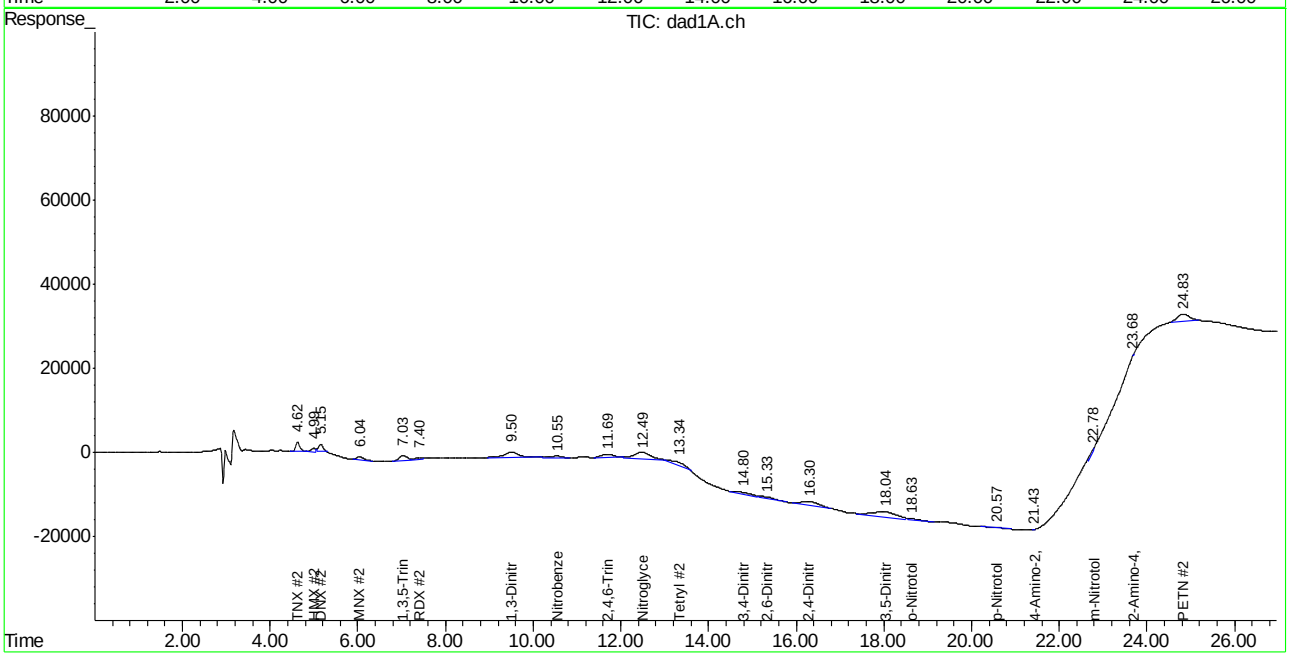
Quantitation Report (QT Reviewed)

Signal #1 : G:\DATA\1230RPB3\GG060857.D\dad1B.ch Vial: 21
Signal #2 : G:\DATA\1230RPB3\GG060857.D\dad1A.ch
Acq On : 30-Dec-2016, 14:43:19 Operator: kismetl
Sample : ic2500-20 Inst : G1315B
Misc : OP63245,GGG2500,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jan 3 9:52 2017 Quant Results File: 8330RPB.M_1214.RES

Quant Method : C:\MSDCHEM\1...\8330RPB.M_1214.M (Chemstation Integrator)
Title : Explosives by 8330A,8330B,8332
Last Update : Tue Jan 03 09:27:45 2017
Response via : Multiple Level Calibration
DataAcq Meth : 8330RPB3.M

Volume Inj. : 100ul
Signal #1 Phase : Bonus RP Signal #2 Phase: Bonus RP
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235nm





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Manual Integration Approval Summary

Sample Number: GGG2500-IC2500 **Method:** SW846 8330A
Lab FileID: GG060857.D **Analyst approved:** 01/03/17 14:10 (b) (6)
Injection Time: 12/30/16 14:43 **Supervisor approved:** 01/03/17 15:37 (b) (6)

Parameter	CAS	Sig#	R.T. (min.)	Reason
TNX		1	4.62	Poor instrument integration
TNX		2	4.62	Poor instrument integration
HMX	2691-41-0	1	4.99	Poor instrument integration
HMX	2691-41-0	2	4.99	Poor instrument integration
DNX		1	5.15	Poor instrument integration
DNX		2	5.15	Poor instrument integration
MNX		1	6.04	Poor instrument integration
MNX		2	6.04	Poor instrument integration
1,3,5-Trinitrobenzene	99-35-4	1	7.03	Poor instrument integration
1,3,5-Trinitrobenzene	99-35-4	2	7.03	Poor instrument integration
1,3-Dinitrobenzene	99-65-0	2	9.50	Poor instrument integration
Nitrobenzene	98-95-3	2	10.55	Poor instrument integration
2,4,6-Trinitrotoluene	118-96-7	2	11.69	Poor instrument integration
Nitroglycerine	55-63-0	2	12.49	Poor instrument integration
Tetryl	479-45-8	2	13.34	Poor instrument integration
Tetryl	479-45-8	1	13.44	Poor instrument integration
3,4-Dinitrotoluene	610-39-9	2	14.80	Missed peak
3,4-Dinitrotoluene	610-39-9	1	14.83	Missed peak
2,6-Dinitrotoluene	606-20-2	1	15.30	Missed peak
2,6-Dinitrotoluene	606-20-2	2	15.33	Missed peak
2,4-Dinitrotoluene	121-14-2	2	16.30	Poor instrument integration
3,5-Dinitroaniline	618-87-1	2	18.04	Poor instrument integration
3,5-Dinitroaniline	618-87-1	1	18.06	Poor instrument integration
o-Nitrotoluene	88-72-2	2	18.63	Missed peak
o-Nitrotoluene	88-72-2	1	18.74	Missed peak
p-Nitrotoluene	99-99-0	1	20.57	Missed peak
p-Nitrotoluene	99-99-0	2	20.57	Missed peak
4-amino-2,6-Dinitrotoluene	19406-51-0	1	21.34	Poor instrument integration
4-amino-2,6-Dinitrotoluene	19406-51-0	2	21.43	Poor instrument integration
m-Nitrotoluene	99-08-1	1	22.78	Missed peak
m-Nitrotoluene	99-08-1	2	22.78	Missed peak
2-amino-4,6-Dinitrotoluene	35572-78-2	1	23.68	Poor instrument integration
2-amino-4,6-Dinitrotoluene	35572-78-2	2	23.68	Poor instrument integration
PETN	78-11-5	2	24.83	Poor instrument integration

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Manual Integrations APPROVED (compounds with "m" flag)

(b) (6)

Quantitation Report (QT Reviewed)

Signal #1 : G:\DATA\1230RPB3\GG060858.D\dad1B.ch Vial: 22
Signal #2 : G:\DATA\1230RPB3\GG060858.D\dad1A.ch
Acq On : 30-Dec-2016, 15:16:18 Operator: kismetl
Sample : ic2500-50 Inst : G1315B
Misc : OP63245,GGG2500,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jan 03 09:28:02 2017 Quant Results File: 8330RPB.M_1214.RES

Quant Method : C:\MSDCHEM\1...\8330RPB.M_1214.M (Chemstation Integrator)
Title : Explosives by 8330A,8330B,8332
Last Update : Tue Jan 03 09:27:45 2017
Response via : Initial Calibration
DataAcq Meth : 8330RPB3.M

Volume Inj. : 100ul
Signal #1 Phase : Bonus RP Signal #2 Phase: Bonus RP
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
12) S	3,4-Dinitrotolue	14.91	14.91	265217	544015	57.351	57.420m
Spiked Amount	500.000	Range	70 - 136	Recovery	=	11.47%#	11.48%#
	Target Compounds						
1)	TNX	4.63	4.63	468979	470721	56.239m	58.570m
2)	HMX	5.00	5.00	140808	146956	50.068m	53.060m
3)	DNX	5.16	5.16	457534	474286	60.410m	62.895m
4)	MNX	6.06	6.06	278396	279562	54.567m	54.955m
5)	1,3,5-Trinitrobe	7.05	7.05	543807	543807	59.863	59.892
6)	RDX	7.40	7.40	272002	272002	64.310	65.260
7)	1,3-Dinitrobenze	9.54	9.54	741431	599091	60.344	65.537m
8)	Nitrobenzene	10.61	10.61	453494	435773	57.610	52.440m
9)	2,4,6-Trinitroto	11.68	11.67	341431	411749	55.340	48.709m
10)	Nitroglycerin	0.00	12.51	0	862666	N.D.	251.725m#
11)	Tetryl	13.47	13.46	231730	364427	51.191	43.389m
13)	2,6-Dinitrotolue	15.36	15.33	433527	569428	59.784	56.795m
14)	2,4-Dinitrotolue	16.31	16.32	682280	549925	60.095	73.953m
15)	o-Nitrotoluene	18.76	18.75	289669	449770	52.929	59.297m
16)	3,5-Dinitroanili	18.10	18.11	584702	959183	62.565	63.013m
17)	p-Nitrotoluene	20.59	20.47	162354	178673	44.826m	34.531
18)	4-Amino-2,6-Dini	21.22	21.21	160469	48485	26.487	4.481m#
19)	m-Nitrotoluene	22.64	22.57	242563	111046	48.393m	17.124m#
20)	2-Amino-4,6-Dini	23.68	23.67	536887	253102	66.809m	23.209m#
21)	PETN	0.00	24.84	0	827473	N.D. d	266.115m

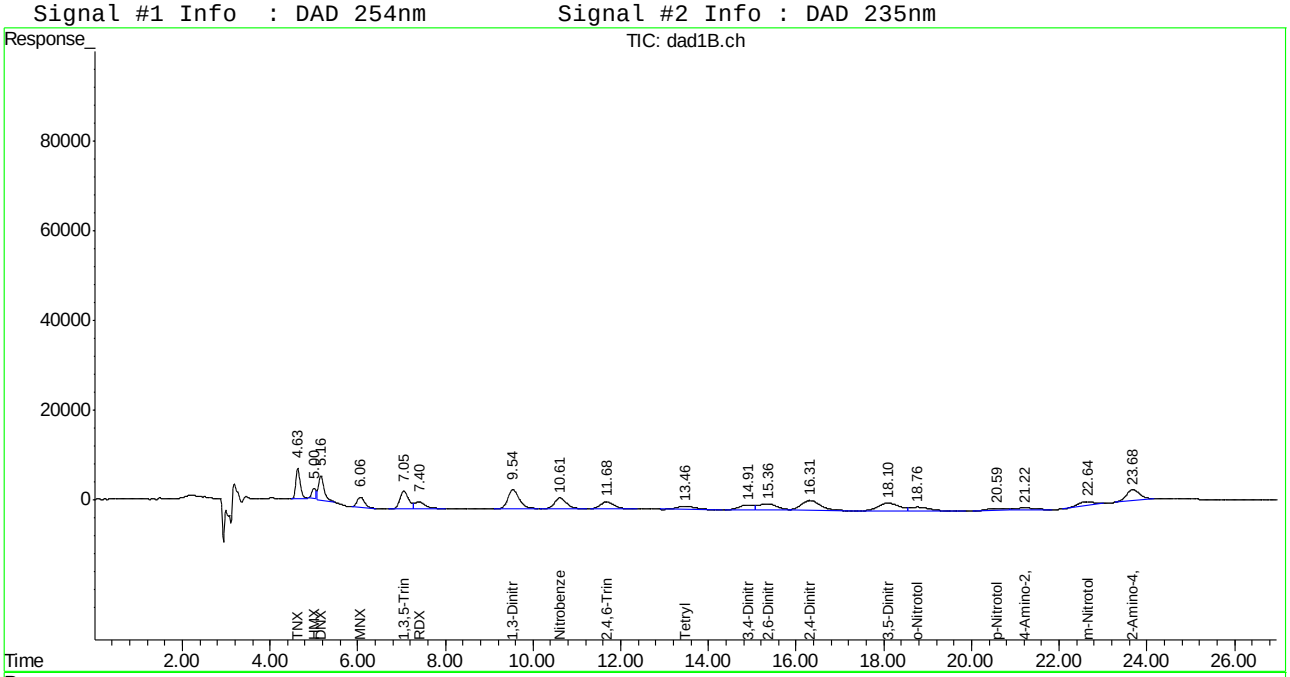
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
GG060858.D 8330RPB.M_1230.M Tue Jan 03 11:14:32 2017 Page 1

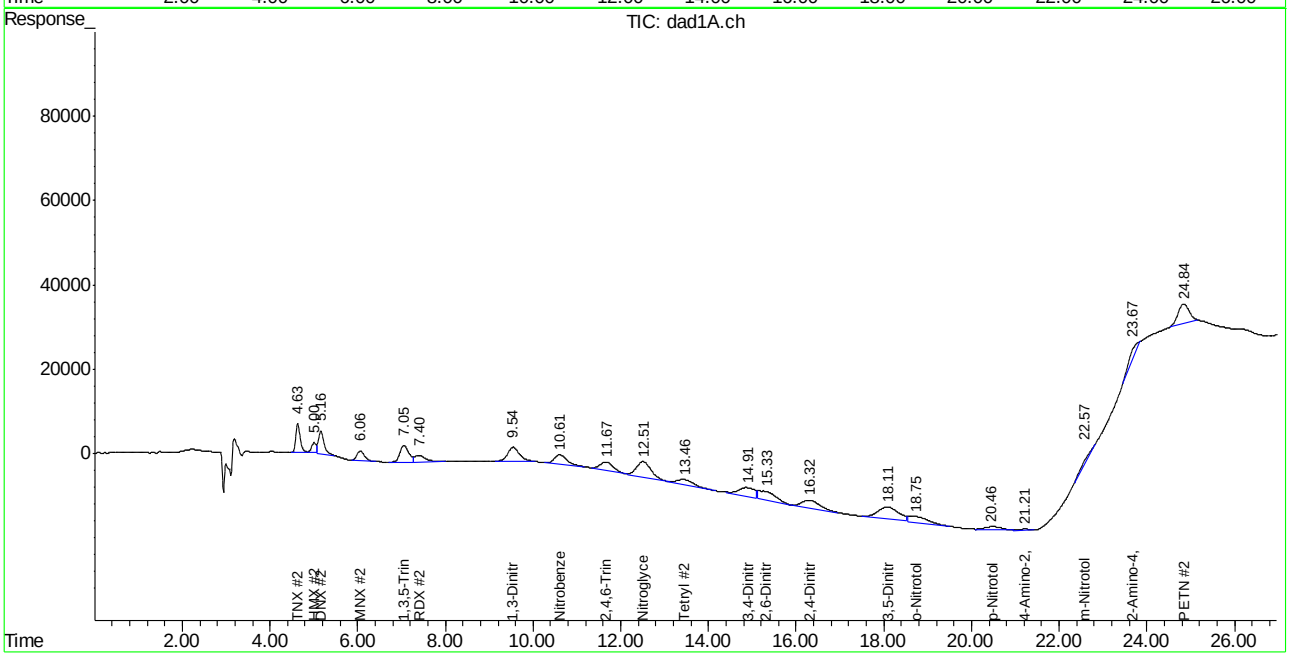
Quantitation Report (QT Reviewed)

Signal #1 : G:\DATA\1230RPB3\GG060858.D\dad1B.ch Vial: 22
Signal #2 : G:\DATA\1230RPB3\GG060858.D\dad1A.ch
Acq On : 30-Dec-2016, 15:16:18 Operator: kismetl
Sample : ic2500-50 Inst : G1315B
Misc : OP63245,GGG2500,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jan 3 9:58 2017 Quant Results File: 8330RPB.M_1214.RES

Quant Method : C:\MSDCHEM\1...\8330RPB.M_1214.M (Chemstation Integrator)
Title : Explosives by 8330A,8330B,8332
Last Update : Tue Jan 03 09:27:45 2017
Response via : Multiple Level Calibration
DataAcq Meth : 8330RPB3.M

Volume Inj. : 100ul
Signal #1 Phase : Bonus RP Signal #2 Phase: Bonus RP
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235nm





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ACCUTEST FA41143

Manual Integration Approval Summary

Sample Number: GGG2500-IC2500 **Method:** SW846 8330A
Lab FileID: GG060858.D **Analyst approved:** 01/03/17 14:10 (b) (6)
Injection Time: 12/30/16 15:16 **Supervisor approved:** 01/03/17 15:37 (b) (6)

Parameter	CAS	Sig#	R.T. (min.)	Reason
TNX		1	4.63	Poor instrument integration
TNX		2	4.63	Poor instrument integration
HMX	2691-41-0	1	5.00	Poor instrument integration
HMX	2691-41-0	2	5.00	Poor instrument integration
DNX		1	5.16	Poor instrument integration
DNX		2	5.16	Poor instrument integration
MNX		1	6.06	Poor instrument integration
MNX		2	6.06	Poor instrument integration
1,3-Dinitrobenzene	99-65-0	2	9.54	Poor instrument integration
Nitrobenzene	98-95-3	2	10.61	Poor instrument integration
2,4,6-Trinitrotoluene	118-96-7	2	11.67	Poor instrument integration
Nitroglycerine	55-63-0	2	12.51	Poor instrument integration
Tetryl	479-45-8	2	13.46	Poor instrument integration
3,4-Dinitrotoluene	610-39-9	2	14.91	Poor instrument integration
2,6-Dinitrotoluene	606-20-2	2	15.33	Missed peak
2,4-Dinitrotoluene	121-14-2	2	16.32	Poor instrument integration
3,5-Dinitroaniline	618-87-1	2	18.11	Missed peak
o-Nitrotoluene	88-72-2	2	18.75	Missed peak
p-Nitrotoluene	99-99-0	1	20.59	Poor instrument integration
4-amino-2,6-Dinitrotoluene	19406-51-0	2	21.21	Poor instrument integration
m-Nitrotoluene	99-08-1	2	22.57	Missed peak
m-Nitrotoluene	99-08-1	1	22.64	Poor instrument integration
2-amino-4,6-Dinitrotoluene	35572-78-2	2	23.67	Poor instrument integration
2-amino-4,6-Dinitrotoluene	35572-78-2	1	23.68	Poor instrument integration
PETN	78-11-5	2	24.84	Poor instrument integration

SGS ACCUTEST FA41143

Manual Integrations APPROVED (compounds with "m" flag)

(b) (6)

Quantitation Report (QT Reviewed)

Signal #1 : G:\DATA\1230RPB3\GG060859.D\dad1B.ch Vial: 23
Signal #2 : G:\DATA\1230RPB3\GG060859.D\dad1A.ch
Acq On : 30-Dec-2016, 15:45:53 Operator: kismetl
Sample : ic2500-100 Inst : G1315B
Misc : OP63245,GGG2500,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jan 03 09:28:03 2017 Quant Results File: 8330RPB.M_1214.RES

Quant Method : C:\MSDCHEM\1...\8330RPB.M_1214.M (Chemstation Integrator)
Title : Explosives by 8330A,8330B,8332
Last Update : Tue Jan 03 09:27:45 2017
Response via : Initial Calibration
DataAcq Meth : 8330RPB3.M

Volume Inj. : 100ul
Signal #1 Phase : Bonus RP Signal #2 Phase: Bonus RP
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
12) S	3,4-Dinitrotolue	14.93	14.91	449558	1024122	97.213	108.079
	Spiked Amount 500.000	Range 70 - 136		Recovery =		19.44%#	21.62%#
	Target Compounds						
1)	TNX	4.63	4.63	803524	818483	96.356m	101.821m
2)	HMX	5.00	5.00	252185	270287	89.982m	97.985m
3)	DNX	5.16	5.16	767730	731943	101.349m	97.040m
4)	MNX	6.05	6.05	500506	499502	98.101m	98.190m
5)	1,3,5-Trinitrobe	7.05	7.05	935888	935888	103.023	103.073
6)	RDX	7.40	7.40	474011	474011	112.070	113.573
7)	1,3-Dinitrobenze	9.55	9.54	1241228	952540	101.021	104.205m
8)	Nitrobenzene	10.61	10.62	788140	794173	100.123	95.570m
9)	2,4,6-Trinitroto	11.68	11.68	585277	729575	94.863	86.363m
10)	Nitroglycerin	0.00	12.52	0	1453289	N.D.	424.069m#
11)	Tetryl	13.47	13.47	424542	746116	93.785	88.884m
13)	2,6-Dinitrotolue	15.37	15.30	743786	834100	102.570	83.065
14)	2,4-Dinitrotolue	16.33	16.35	1160803	799437	102.243	107.341m
15)	o-Nitrotoluene	18.79	18.81	511949	714569	93.544	94.072m
16)	3,5-Dinitroanili	18.12	18.11	1043320	1761007	111.639	115.534
17)	p-Nitrotoluene	20.66	20.59	301186	158392	83.157	30.617 #
18)	4-Amino-2,6-Dini	21.29	21.38	385762	70692	63.673	6.533m#
19)	m-Nitrotoluene	22.64	22.61	475148	499759	94.597m	76.324m
20)	2-Amino-4,6-Dini	23.70	23.78	950263	1178641	118.249m	107.733m
21)	PETN	0.00	24.85	0	1709222	N.D. d	549.084m

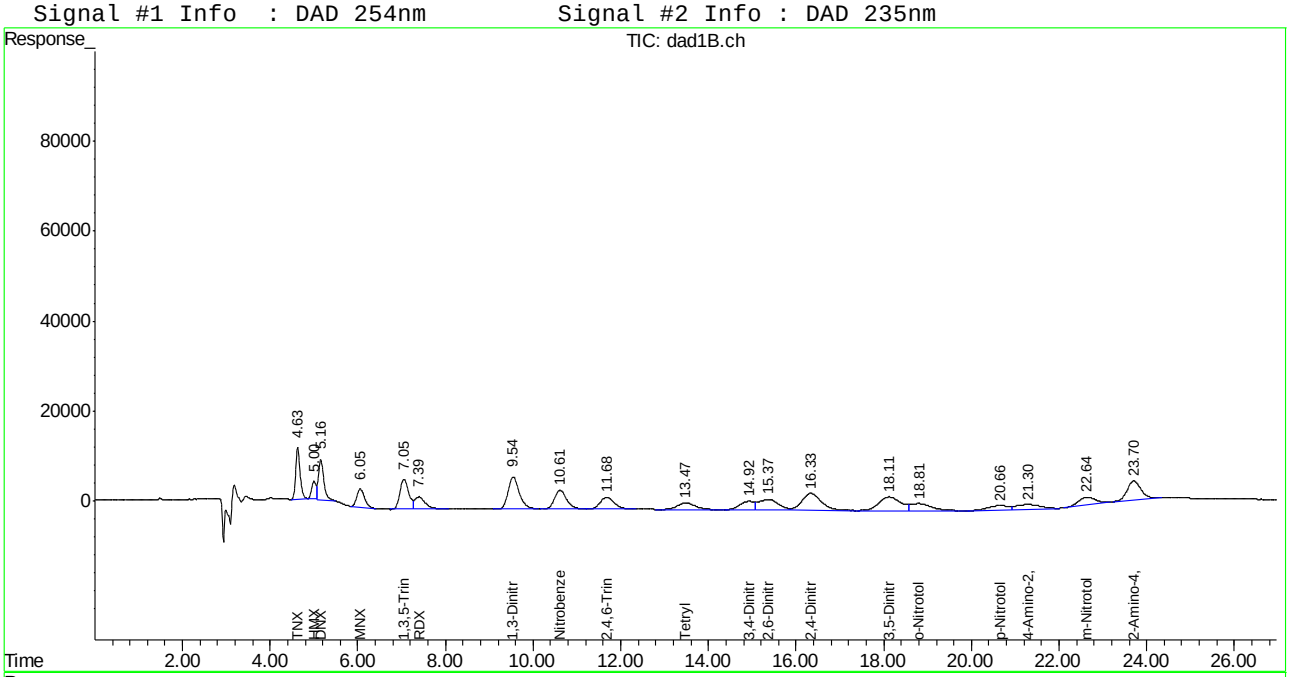
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
GG060859.D 8330RPB.M_1230.M Tue Jan 03 11:14:33 2017 Page 1

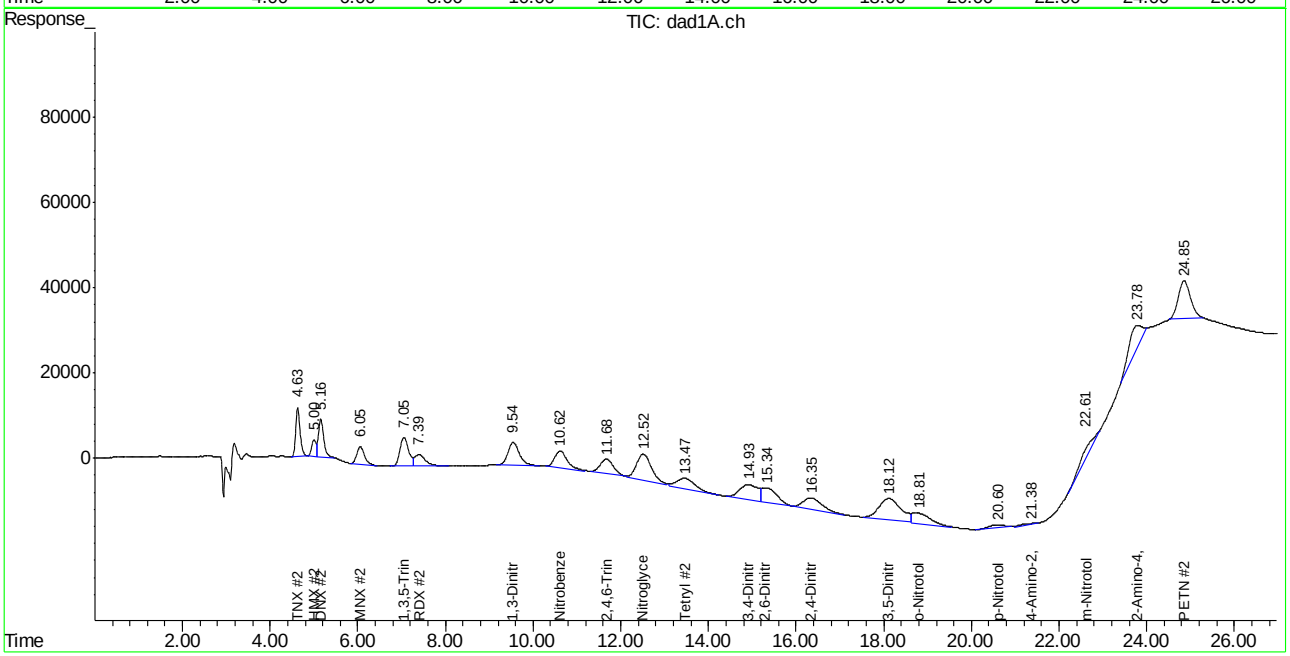
Quantitation Report (QT Reviewed)

Signal #1 : G:\DATA\1230RPB3\GG060859.D\dad1B.ch Vial: 23
Signal #2 : G:\DATA\1230RPB3\GG060859.D\dad1A.ch
Acq On : 30-Dec-2016, 15:45:53 Operator: kismetl
Sample : ic2500-100 Inst : G1315B
Misc : OP63245,GGG2500,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jan 3 10:02 2017 Quant Results File: 8330RPB.M_1214.RES

Quant Method : C:\MSDCHEM\1...\8330RPB.M_1214.M (Chemstation Integrator)
Title : Explosives by 8330A,8330B,8332
Last Update : Tue Jan 03 09:27:45 2017
Response via : Multiple Level Calibration
DataAcq Meth : 8330RPB3.M

Volume Inj. : 100ul
Signal #1 Phase : Bonus RP Signal #2 Phase: Bonus RP
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235nm





7.6.3
7
SGS 011464
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ACCUTEST FA41143

Manual Integration Approval Summary

Sample Number: GGG2500-IC2500 **Method:** SW846 8330A
Lab FileID: GG060859.D **Analyst approved:** 01/03/17 14:10 (b) (6)
Injection Time: 12/30/16 15:45 **Supervisor approved:** 01/03/17 15:37 (b) (6)

Parameter	CAS	Sig#	R.T. (min.)	Reason
TNX		1	4.63	Poor instrument integration
TNX		2	4.63	Poor instrument integration
HMX	2691-41-0	1	5.00	Poor instrument integration
HMX	2691-41-0	2	5.00	Poor instrument integration
DNX		1	5.16	Poor instrument integration
DNX		2	5.16	Poor instrument integration
MNX		1	6.05	Poor instrument integration
MNX		2	6.05	Poor instrument integration
1,3-Dinitrobenzene	99-65-0	2	9.54	Poor instrument integration
Nitrobenzene	98-95-3	2	10.62	Poor instrument integration
2,4,6-Trinitrotoluene	118-96-7	2	11.68	Poor instrument integration
Nitroglycerine	55-63-0	2	12.52	Poor instrument integration
Tetryl	479-45-8	2	13.47	Poor instrument integration
2,4-Dinitrotoluene	121-14-2	2	16.35	Poor instrument integration
o-Nitrotoluene	88-72-2	2	18.81	Poor instrument integration
4-amino-2,6-Dinitrotoluene	19406-51-0	2	21.38	Poor instrument integration
m-Nitrotoluene	99-08-1	2	22.61	Poor instrument integration
m-Nitrotoluene	99-08-1	1	22.64	Poor instrument integration
2-amino-4,6-Dinitrotoluene	35572-78-2	1	23.70	Poor instrument integration
2-amino-4,6-Dinitrotoluene	35572-78-2	2	23.78	Poor instrument integration
PETN	78-11-5	2	24.85	Poor instrument integration

Manual Integrations APPROVED (compounds with "m" flag)

(b) (6)

Quantitation Report (QT Reviewed)

Signal #1 : G:\DATA\1230RPB3\GG060860.D\dad1B.ch Vial: 24
Signal #2 : G:\DATA\1230RPB3\GG060860.D\dad1A.ch
Acq On : 30-Dec-2016, 16:15:27 Operator: kismetl
Sample : ic2500-200 Inst : G1315B
Misc : OP63245,GGG2500,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jan 03 09:28:04 2017 Quant Results File: 8330RPB.M_1214.RES

Quant Method : C:\MSDCHEM\1...\8330RPB.M_1214.M (Chemstation Integrator)
Title : Explosives by 8330A,8330B,8332
Last Update : Tue Jan 03 09:27:45 2017
Response via : Initial Calibration
DataAcq Meth : 8330RPB3.M

Volume Inj. : 100ul
Signal #1 Phase : Bonus RP Signal #2 Phase: Bonus RP
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
12) S	3,4-Dinitrotolue	14.98	14.95	917603	2009664	198.424	212.024
	Spiked Amount 500.000	Range 70 - 136		Recovery =		39.68%#	42.40%#
	Target Compounds						
1)	TNX	4.63	4.63	1617527	1634238	193.969m	203.211m
2)	HMX	5.00	5.00	512517	513203	184.377m	187.563m
3)	DNX	5.16	5.16	1465722	1489749	193.416m	197.377m
4)	MNX	6.07	6.07	1013539	1013539	198.658	199.237
5)	1,3,5-Trinitrobe	7.06	7.06	1880817	1880817	207.042	207.142
6)	RDX	7.41	7.41	919023	919023	217.285	219.548
7)	1,3-Dinitrobenze	9.57	9.57	2456253	1935291	199.910	211.735
8)	Nitrobenzene	10.64	10.64	1535777	1494778	195.100	179.880m
9)	2,4,6-Trinitroto	11.70	11.70	1159861	1467650	187.994	173.989m
10)	Nitroglycerin	0.00	12.54	0	2946250	N.D.	859.714m#
11)	Tetryl	13.51	13.52	853029	1365926	188.442	162.873m
13)	2,6-Dinitrotolue	15.39	15.35	1476178	1789902	203.568	177.270
14)	2,4-Dinitrotolue	16.37	16.37	2322902	1598934	204.600	213.642m
15)	o-Nitrotoluene	18.81	18.78	987431	1325166	180.425	173.880
16)	3,5-Dinitroanili	18.16	18.15	2048781	3453819	219.228	225.959
17)	p-Nitrotoluene	20.68	20.67	593264	338596	163.800	65.357 #
18)	4-Amino-2,6-Dini	21.34	21.41	902113	284239	148.901	26.251 #
19)	m-Nitrotoluene	22.66	22.64	951524	1068597	188.635m	160.975m
20)	2-Amino-4,6-Dini	23.72	23.76	1821522	2190603	226.668m	199.538m
21)	PETN	0.00	24.86	0	3416905	N.D. d	1095.362m

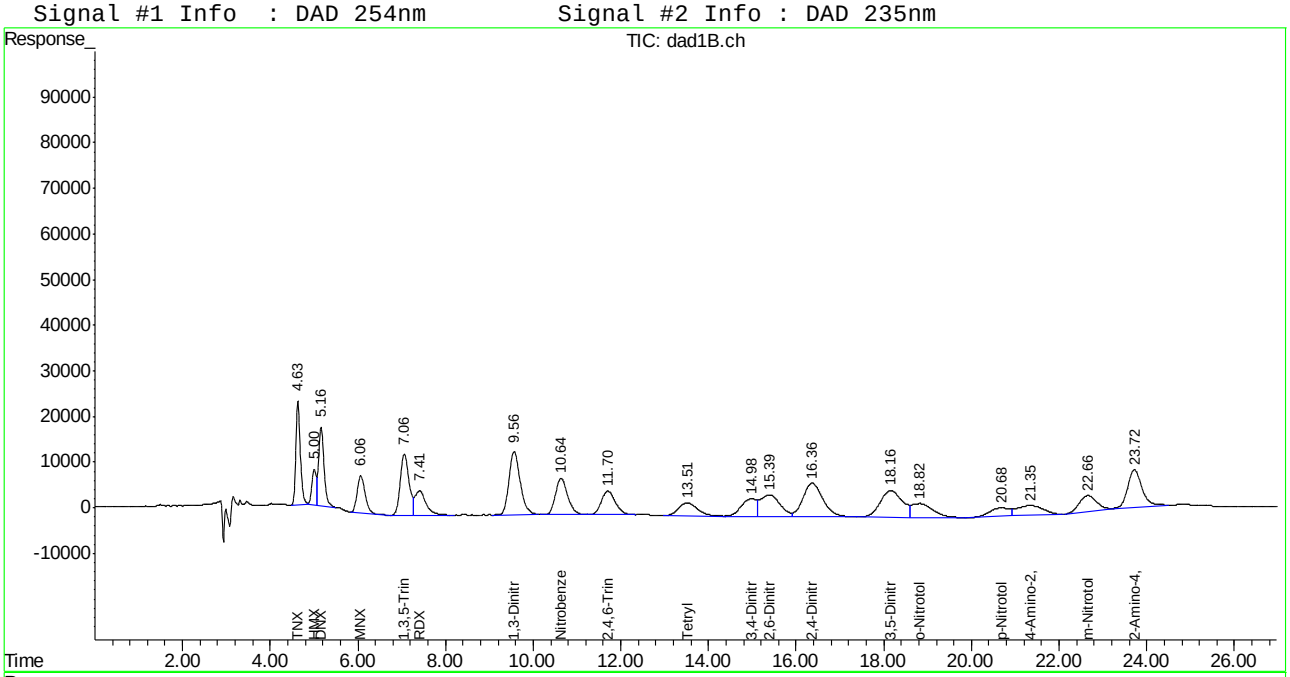
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
GG060860.D 8330RPB.M_1230.M Tue Jan 03 11:14:34 2017 Page 1

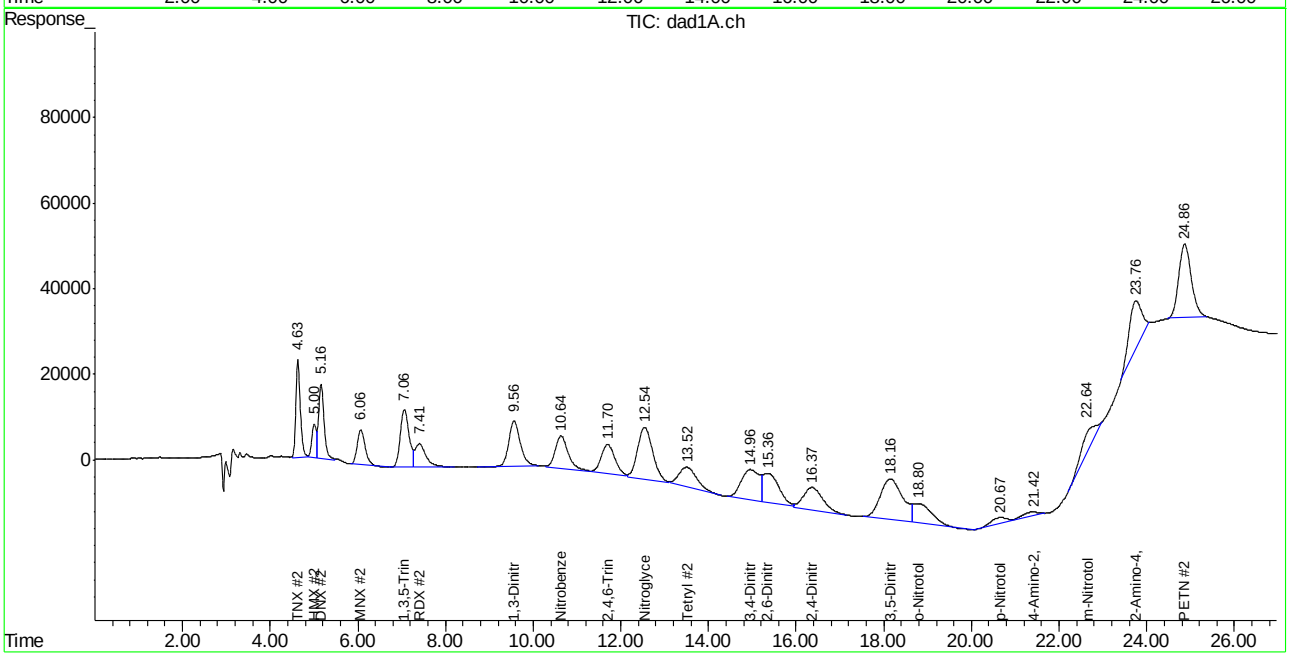
Quantitation Report (QT Reviewed)

Signal #1 : G:\DATA\1230RPB3\GG060860.D\dad1B.ch Vial: 24
Signal #2 : G:\DATA\1230RPB3\GG060860.D\dad1A.ch
Acq On : 30-Dec-2016, 16:15:27 Operator: kismetl
Sample : ic2500-200 Inst : G1315B
Misc : OP63245,GGG2500,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jan 3 10:06 2017 Quant Results File: 8330RPB.M_1214.RES

Quant Method : C:\MSDCHEM\1...\8330RPB.M_1214.M (Chemstation Integrator)
Title : Explosives by 8330A,8330B,8332
Last Update : Tue Jan 03 09:27:45 2017
Response via : Multiple Level Calibration
DataAcq Meth : 8330RPB3.M

Volume Inj. : 100ul
Signal #1 Phase : Bonus RP Signal #2 Phase: Bonus RP
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235nm





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SGS 011467
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ACCUTEST FA41143

Manual Integration Approval Summary

Sample Number: GGG2500-IC2500
Lab FileID: GG060860.D
Injection Time: 12/30/16 16:15
Method: SW846 8330A
Analyst approved: 01/03/17 14:10 (b) (6)
Supervisor approved: 01/03/17 15:37 (b) (6)

Parameter	CAS	Sig#	R.T. (min.)	Reason
TNX		1	4.63	Poor instrument integration
TNX		2	4.63	Poor instrument integration
HMX	2691-41-0	1	5.00	Poor instrument integration
HMX	2691-41-0	2	5.00	Poor instrument integration
DNX		1	5.16	Poor instrument integration
DNX		2	5.16	Poor instrument integration
Nitrobenzene	98-95-3	2	10.64	Poor instrument integration
2,4,6-Trinitrotoluene	118-96-7	2	11.70	Poor instrument integration
Nitroglycerine	55-63-0	2	12.54	Poor instrument integration
Tetryl	479-45-8	2	13.52	Poor instrument integration
2,4-Dinitrotoluene	121-14-2	2	16.37	Poor instrument integration
m-Nitrotoluene	99-08-1	2	22.64	Missed peak
m-Nitrotoluene	99-08-1	1	22.66	Poor instrument integration
2-amino-4,6-Dinitrotoluene	35572-78-2	1	23.72	Poor instrument integration
2-amino-4,6-Dinitrotoluene	35572-78-2	2	23.76	Poor instrument integration
PETN	78-11-5	2	24.86	Poor instrument integration

SGS ACCUTEST FA41143

Manual Integrations APPROVED (compounds with "m" flag)

(b) (6)

Quantitation Report (QT Reviewed)

Signal #1 : G:\DATA\1230RPB3\GG060861.D\dad1B.ch Vial: 25
Signal #2 : G:\DATA\1230RPB3\GG060861.D\dad1A.ch
Acq On : 30-Dec-2016, 16:45:02 Operator: kismetl
Sample : icc2500-500 Inst : G1315B
Misc : OP63245,GGG2500,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jan 03 09:28:05 2017 Quant Results File: 8330RPB.M_1214.RES

Quant Method : C:\MSDCHEM\1...\8330RPB.M_1214.M (Chemstation Integrator)
Title : Explosives by 8330A,8330B,8332
Last Update : Tue Jan 03 09:27:45 2017
Response via : Initial Calibration
DataAcq Meth : 8330RPB3.M

Volume Inj. : 100ul
Signal #1 Phase : Bonus RP Signal #2 Phase: Bonus RP
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
12) S	3,4-Dinitrotolue	15.00	14.99	2176194	4818417	470.585	507.925
	Spiked Amount 500.000	Range 70 - 136		Recovery =		94.12%	101.58%
	Target Compounds						
1)	TNX	4.63	4.63	3912729	4019223	469.203m	499.120
2)	HMX	5.00	5.00	1357492	1357492	502.296	511.169
3)	DNX	5.16	5.16	3739502	3739502	492.833	494.465
4)	MNX	6.06	6.06	2527746	2527746	495.449	496.892
5)	1,3,5-Trinitrobe	7.06	7.06	4472978	4472978	492.389	492.626
6)	RDX	7.41	7.41	2137646	2137646	505.404	506.616
7)	1,3-Dinitrobenze	9.57	9.57	5885991	4598219	479.050	503.204
8)	Nitrobenzene	10.64	10.64	3738142	3803289	474.881	457.683
9)	2,4,6-Trinitroto	11.71	11.71	2867030	4054558	464.696	483.188
10)	Nitroglycerin	0.00	12.56	0	7627688	N.D. d	2225.755
11)	Tetryl	13.53	13.52	2057679	3690629	454.560	441.630
13)	2,6-Dinitrotolue	15.41	15.38	3575446	4999928	493.061	486.411
14)	2,4-Dinitrotolue	16.39	16.39	5549365	3928915	488.786	517.730
15)	o-Nitrotoluene	18.85	18.83	2407986	3423348	439.990	444.223
16)	3,5-Dinitroanili	18.18	18.18	4822570	8237243	516.034	534.713
17)	p-Nitrotoluene	20.71	20.71	1559470	1535914	430.570	293.732
18)	4-Amino-2,6-Dini	21.38	21.41	2582303	2632878	426.229	241.322 #
19)	m-Nitrotoluene	22.67	22.71	2433427	3545310	476.236m	505.987m
20)	2-Amino-4,6-Dini	23.73	23.75	4121622	6031492	512.889m	542.383m
21)	PETN	0.00	24.88	0	8193693	N.D. d	2611.409m

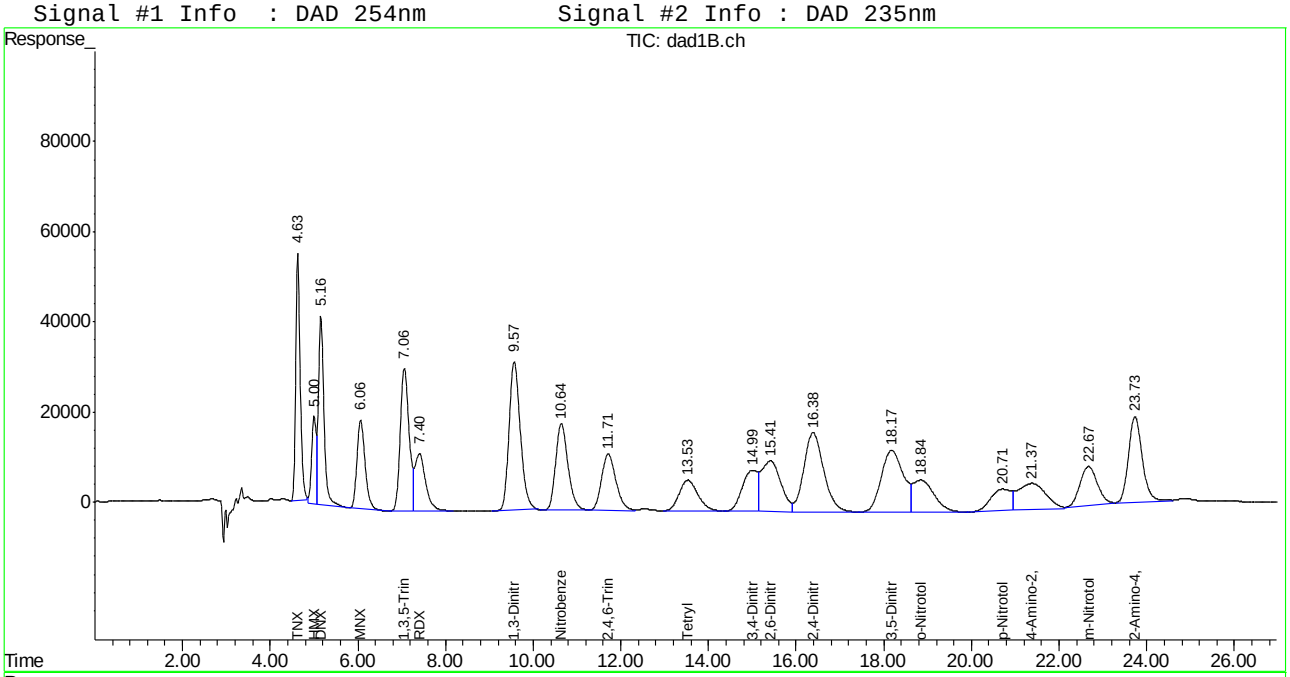
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
GG060861.D 8330RPB.M_1230.M Tue Jan 03 11:14:48 2017 Page 1

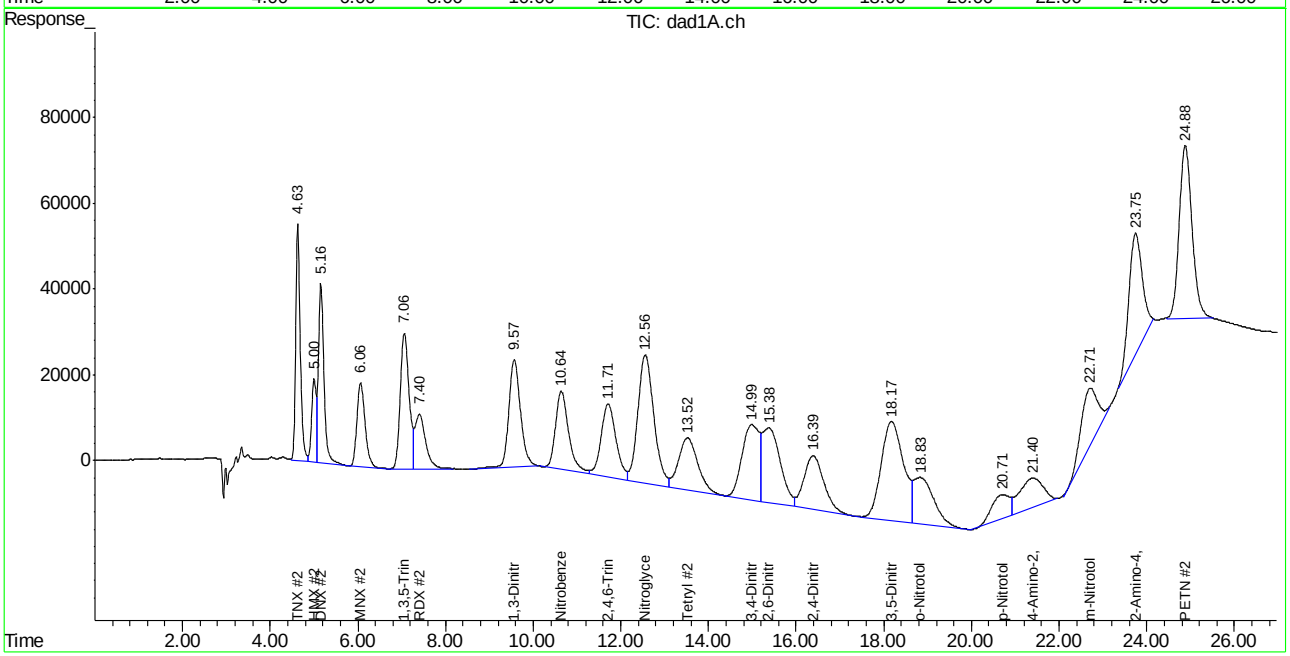
Quantitation Report (QT Reviewed)

Signal #1 : G:\DATA\1230RPB3\GG060861.D\dad1B.ch Vial: 25
Signal #2 : G:\DATA\1230RPB3\GG060861.D\dad1A.ch
Acq On : 30-Dec-2016, 16:45:02 Operator: kismetl
Sample : icc2500-500 Inst : G1315B
Misc : OP63245,GGG2500,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jan 3 10:08 2017 Quant Results File: 8330RPB.M_1214.RES

Quant Method : C:\MSDCHEM\1...\8330RPB.M_1214.M (Chemstation Integrator)
Title : Explosives by 8330A,8330B,8332
Last Update : Tue Jan 03 09:27:45 2017
Response via : Multiple Level Calibration
DataAcq Meth : 8330RPB3.M

Volume Inj. : 100ul
Signal #1 Phase : Bonus RP Signal #2 Phase: Bonus RP
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235nm





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ACCUTEST FA41143

Manual Integration Approval Summary

Sample Number: GGG2500-ICC2500 **Method:** SW846 8330A
Lab FileID: GG060861.D **Analyst approved:** 01/03/17 14:10 (b) (6)
Injection Time: 12/30/16 16:45 **Supervisor approved:** 01/03/17 15:37 (b) (6)

Parameter	CAS	Sig#	R.T. (min.)	Reason
TNX		1	4.63	Poor instrument integration
m-Nitrotoluene	99-08-1	1	22.67	Poor instrument integration
m-Nitrotoluene	99-08-1	2	22.71	Poor instrument integration
2-amino-4,6-Dinitrotoluene	35572-78-2	1	23.73	Poor instrument integration
2-amino-4,6-Dinitrotoluene	35572-78-2	2	23.75	Poor instrument integration
PETN	78-11-5	2	24.88	Poor instrument integration

Manual Integrations APPROVED (compounds with "m" flag)

(b) (6)

Quantitation Report (QT Reviewed)

Signal #1 : G:\DATA\1230RPB3\GG060862.D\dad1B.ch Vial: 26
Signal #2 : G:\DATA\1230RPB3\GG060862.D\dad1A.ch
Acq On : 30-Dec-2016, 17:14:39 Operator: kismetl
Sample : ic2500-1000 Inst : G1315B
Misc : OP63245,GGG2500,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jan 03 09:28:06 2017 Quant Results File: 8330RPB.M_1214.RES

Quant Method : C:\MSDCHEM\1...\8330RPB.M_1214.M (Chemstation Integrator)
Title : Explosives by 8330A,8330B,8332
Last Update : Tue Jan 03 09:27:45 2017
Response via : Initial Calibration
DataAcq Meth : 8330RPB3.M

Volume Inj. : 100ul
Signal #1 Phase : Bonus RP Signal #2 Phase: Bonus RP
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
12) S	3,4-Dinitrotolue	14.97	14.96	4210954	9432101	910.586	992.895
	Spiked Amount 500.000	Range 70 - 136		Recovery =		182.12%#	198.58%#
	Target Compounds						
1)	TNX	4.63	4.63	7838956	7838956	940.025	971.437
2)	HMX	5.01	5.01	2586384	2586384	1001.957	1022.952
3)	DNX	5.16	5.16	7185968	7185968	945.220	947.318
4)	MNX	6.06	6.06	5116960	5116960	1002.945	1005.868
5)	1,3,5-Trinitrobe	7.06	7.06	8885041	8885041	978.072	978.544
6)	RDX	7.40	7.40	4223488	4223488	998.559	987.812
7)	1,3-Dinitrobenze	9.56	9.56	11641472	8795457	947.477	962.907
8)	Nitrobenzene	10.62	10.62	7384905	7274877	938.154	875.449
9)	2,4,6-Trinitroto	11.70	11.70	5653283	7861173	916.300	944.221
10)	Nitroglycerin	0.00	12.54	0	15016317	N.D. d	4381.753
11)	Tetryl	13.50	13.50	4096243	7507818	904.897	903.708
13)	2,6-Dinitrotolue	15.38	15.35	7142118	10135679	984.912	959.975
14)	2,4-Dinitrotolue	16.35	16.35	10964077	7929300	965.711	1021.558
15)	o-Nitrotoluene	18.79	18.78	4818323	7047589	880.409	897.851
16)	3,5-Dinitroanili	18.13	18.13	9623590	16539840	1029.763	1059.655
17)	p-Nitrotoluene	20.67	20.67	3267337	4073851	902.112	764.554
18)	4-Amino-2,6-Dini	21.30	21.31	5558138	8053937	917.414	725.819
19)	m-Nitrotoluene	22.63	22.65	5306027	7743251	1014.126	1024.221m
20)	2-Amino-4,6-Dini	23.70	23.71	8088207	11892466	1006.485m	1049.607m
21)	PETN	0.00	24.86	0	16378360	N.D. d	5169.288m

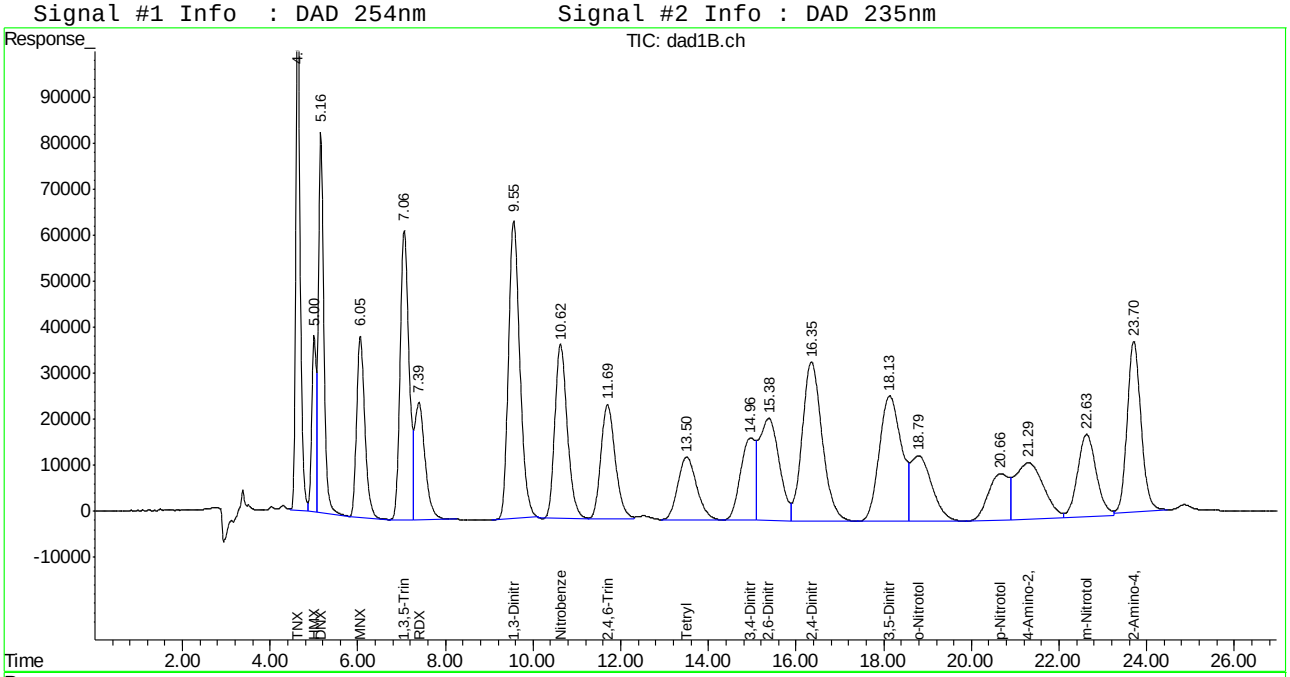
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

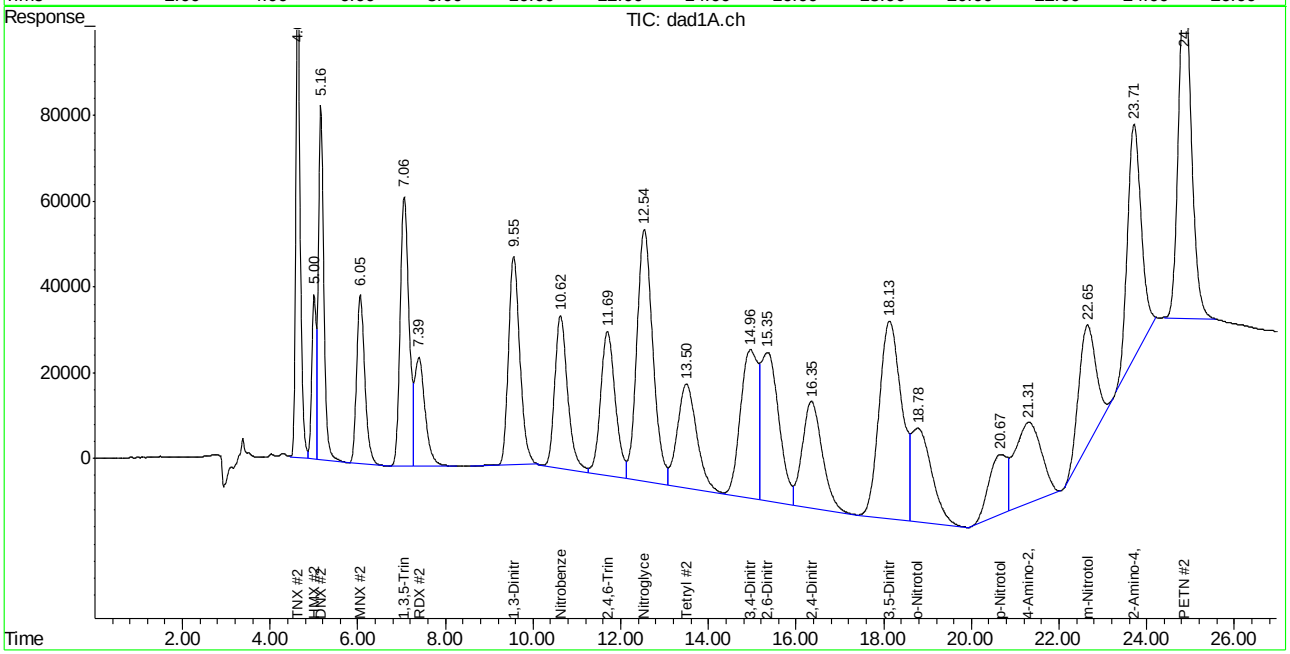
Quantitation Report (QT Reviewed)

Signal #1 : G:\DATA\1230RPB3\GG060862.D\dad1B.ch Vial: 26
Signal #2 : G:\DATA\1230RPB3\GG060862.D\dad1A.ch
Acq On : 30-Dec-2016, 17:14:39 Operator: kismetl
Sample : ic2500-1000 Inst : G1315B
Misc : OP63245,GGG2500,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jan 3 10:10 2017 Quant Results File: 8330RPB.M_1214.RES

Quant Method : C:\MSDCHEM\1...\8330RPB.M_1214.M (Chemstation Integrator)
Title : Explosives by 8330A,8330B,8332
Last Update : Tue Jan 03 09:27:45 2017
Response via : Multiple Level Calibration
DataAcq Meth : 8330RPB3.M

Volume Inj. : 100ul
Signal #1 Phase : Bonus RP Signal #2 Phase: Bonus RP
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235nm





SGS ACCUTEST FA41143

Manual Integration Approval Summary

Sample Number: GGG2500-IC2500
Lab FileID: GG060862.D
Injection Time: 12/30/16 17:14
Method: SW846 8330A
Analyst approved: 01/03/17 14:10 (b) (6)
Supervisor approved: 01/03/17 15:37 (b) (6)

Parameter	CAS	Sig#	R.T. (min.)	Reason
m-Nitrotoluene	99-08-1	2	22.65	Poor instrument integration
2-amino-4,6-Dinitrotoluene	35572-78-2	1	23.70	Poor instrument integration
2-amino-4,6-Dinitrotoluene	35572-78-2	2	23.71	Poor instrument integration
PETN	78-11-5	2	24.86	Poor instrument integration

SGS ACCUTEST FA41143

GG060863.D

Manual Integrations APPROVED (compounds with "m" flag)

(b) (6)

Quantitation Report (QT Reviewed)

Signal #1 : G:\DATA\1230RPB3\GG060863.D\dad1B.ch Vial: 27
Signal #2 : G:\DATA\1230RPB3\GG060863.D\dad1A.ch
Acq On : 30-Dec-2016, 17:44:16 Operator: kismetl
Sample : ic2500-2000 Inst : G1315B
Misc : OP63245,GGG2500,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jan 03 09:28:07 2017 Quant Results File: 8330RPB.M_1214.RES

Quant Method : C:\MSDCHEM\1...\8330RPB.M_1214.M (Chemstation Integrator)
Title : Explosives by 8330A,8330B,8332
Last Update : Tue Jan 03 09:27:45 2017
Response via : Initial Calibration
DataAcq Meth : 8330RPB3.M

Volume Inj. : 100ul
Signal #1 Phase : Bonus RP Signal #2 Phase: Bonus RP
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
12) S	3,4-Dinitrotolue	14.95	14.94	9266817	20915374	2003.877	2194.205
	Spiked Amount 500.000	Range 70 - 136		Recovery =		400.78%#	438.84%#
	Target Compounds						
1)	TNX	4.62	4.62	17055860	17055860	2045.290	2103.133
2)	HMX	5.00	5.00	5490432	5490432	2466.556	2557.793
3)	DNX	5.15	5.15	15490765	15490765	2028.243	2027.553
4)	MNX	6.04	6.04	11284764	11284764	2211.860	2218.306
5)	1,3,5-Trinitrobe	7.05	7.05	19556646	19556646	2152.811	2153.849
6)	RDX	7.37	7.37	9209995	9209995	2177.519	2091.134
7)	1,3-Dinitrobenze	9.54	9.54	25516947	19157835	2076.776	2099.407
8)	Nitrobenzene	10.61	10.61	15943670	15285994	2025.431	1839.497
9)	2,4,6-Trinitroto	11.69	11.69	12392046	16745570	2008.538	2050.145
10)	Nitroglycerin	0.00	12.53	0	32595758	N.D. d	9511.424
11)	Tetryl	13.49	13.49	8981012	16760400	1983.987	2047.344
13)	2,6-Dinitrotolue	15.36	15.33	15649267	22658850	2158.065	2025.602
14)	2,4-Dinitrotolue	16.33	16.33	23993836	17157925	2113.367	2108.923
15)	o-Nitrotoluene	18.77	18.75	10455545	15394153	1910.449	1886.297
16)	3,5-Dinitroanili	18.11	18.11	21056164	36215701	2253.094	2253.346
17)	p-Nitrotoluene	20.64	20.65	7166551	9772988	1978.685	1764.229
18)	4-Amino-2,6-Dini	21.26	21.27	12849923	21326501	2120.980	1849.942
19)	m-Nitrotoluene	22.61	22.62	11597272	17085247	2115.245	1988.901m
20)	2-Amino-4,6-Dini	23.69	23.69	18102991	26308173	2252.711	2226.185m
21)	PETN	0.00	24.86	0	35559335	N.D. d	10981.018m

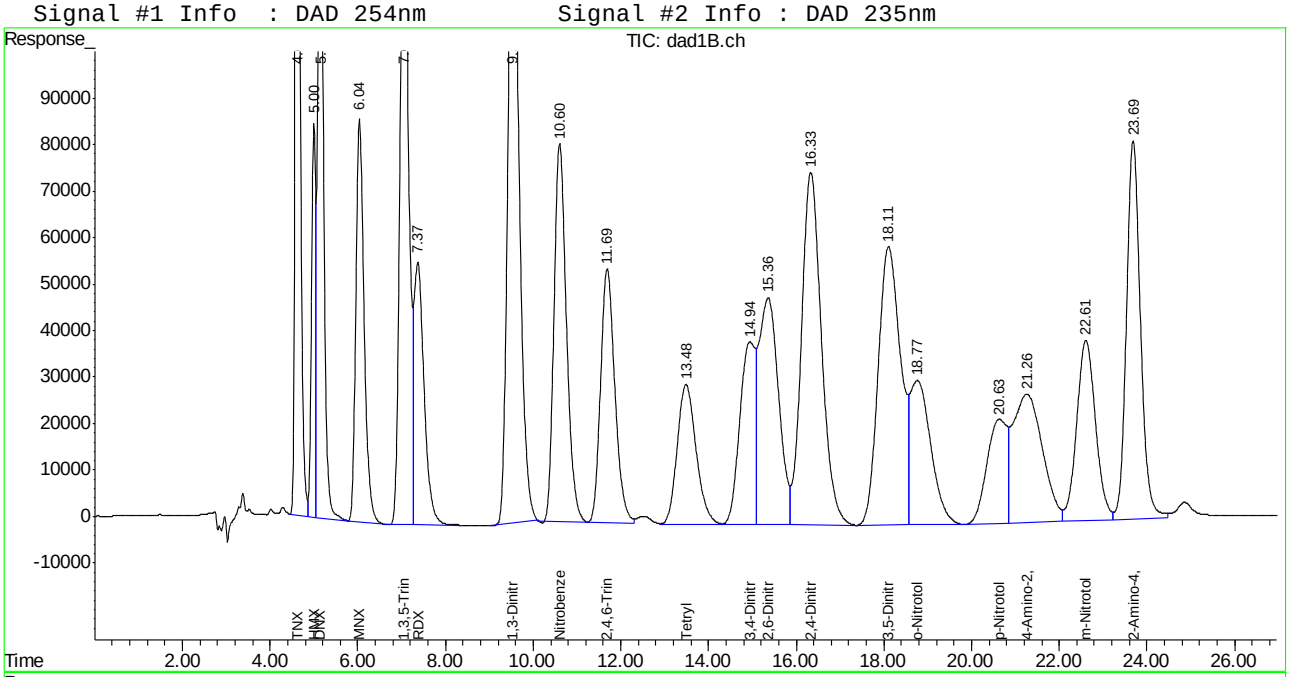
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
GG060863.D 8330RPB.M_1230.M Tue Jan 03 11:14:50 2017 Page 1

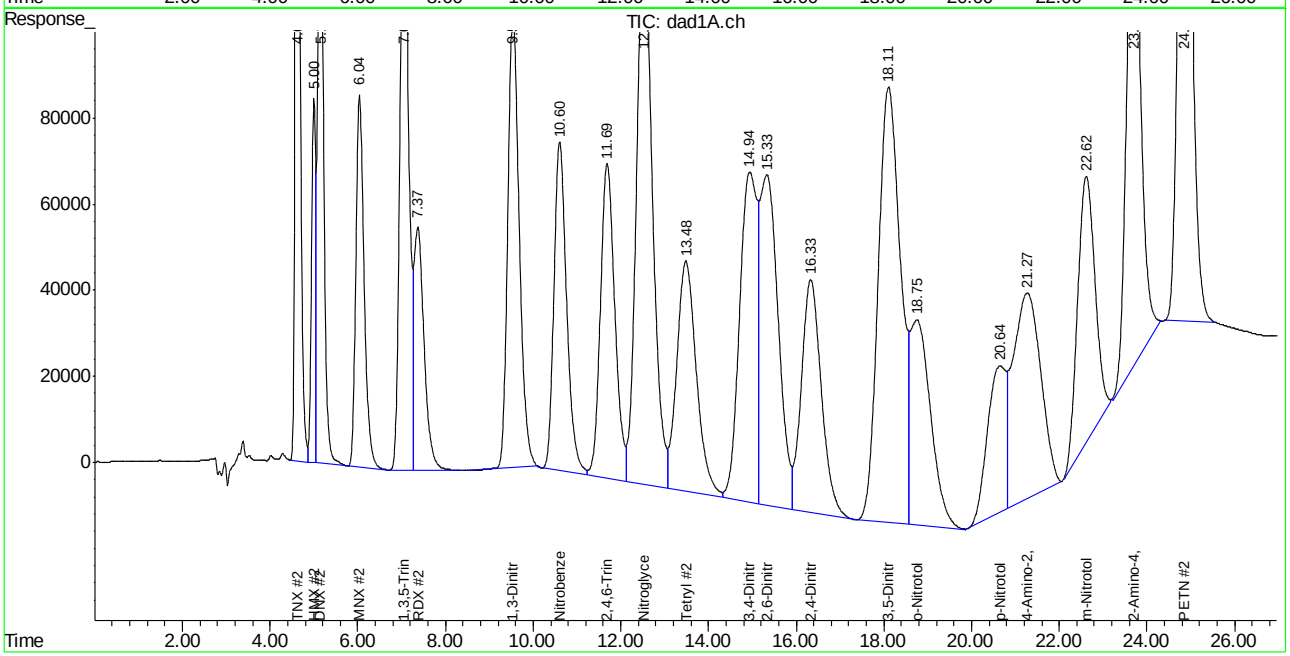
Quantitation Report (QT Reviewed)

Signal #1 : G:\DATA\1230RPB3\GG060863.D\dad1B.ch Vial: 27
Signal #2 : G:\DATA\1230RPB3\GG060863.D\dad1A.ch
Acq On : 30-Dec-2016, 17:44:16 Operator: kismetl
Sample : ic2500-2000 Inst : G1315B
Misc : OP63245,GGG2500,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jan 3 10:11 2017 Quant Results File: 8330RPB.M_1214.RES

Quant Method : C:\MSDCHEM\1...\8330RPB.M_1214.M (Chemstation Integrator)
Title : Explosives by 8330A,8330B,8332
Last Update : Tue Jan 03 09:27:45 2017
Response via : Multiple Level Calibration
DataAcq Meth : 8330RPB3.M

Volume Inj. : 100ul
Signal #1 Phase : Bonus RP Signal #2 Phase: Bonus RP
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235nm





Manual Integration Approval Summary

Sample Number: GGG2500-IC2500
Lab FileID: GG060863.D
Injection Time: 12/30/16 17:44
Method: SW846 8330A
Analyst approved: 01/03/17 14:10 (b) (6)
Supervisor approved: 01/03/17 15:37 (b) (6)

Parameter	CAS	Sig#	R.T. (min.)	Reason
m-Nitrotoluene	99-08-1	2	22.62	Poor instrument integration
2-amino-4,6-Dinitrotoluene	35572-78-2	2	23.69	Poor instrument integration
PETN	78-11-5	2	24.86	Poor instrument integration

Manual Integrations APPROVED (compounds with "m" flag)

(b) (6)

Quantitation Report (QT Reviewed)

Signal #1 : G:\DATA\1230RPB3\GG060864.D\dad1B.ch Vial: 28
Signal #2 : G:\DATA\1230RPB3\GG060864.D\dad1A.ch
Acq On : 30-Dec-2016, 18:13:52 Operator: kismetl
Sample : icv2500-500 Inst : G1315B
Misc : OP63245,GGG2500,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jan 03 11:05:09 2017 Quant Results File: 8330RPB.M_1230.RES

Quant Method : C:\MSDCHEM\1...\8330RPB.M_1230.M (Chemstation Integrator)
Title : Explosives by 8330A,8330B,8332
Last Update : Tue Jan 03 10:58:03 2017
Response via : Initial Calibration
DataAcq Meth : 8330RPB3.M

Volume Inj. : 100ul
Signal #1 Phase : Bonus RP Signal #2 Phase: Bonus RP
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
12) S	3,4-Dinitrotolue	0.00	0.00	0	0	N.D.	N.D.
	Spiked Amount 500.000	Range 70 - 136		Recovery =		0.00%#	0.00%#
	Target Compounds						
1)	TNX	4.63	4.63	4162248	4162248	508.848	503.109
2)	HMX	5.00	5.00	1480228	1572593	550.270m	569.244
3)	DNX	5.16	5.16	3706442	3876425	485.321m	512.895
4)	MNX	6.06	6.06	2613973	2613973	511.578	512.876
5)	1,3,5-Trinitrobe	7.06	7.06	4582643	4582643	494.967	495.642
6)	RDX	7.40	7.40	2332654	2332654	556.540	556.540
7)	1,3-Dinitrobenze	9.56	9.56	5830736	4460173	441.071	506.352
8)	Nitrobenzene	10.63	10.63	4022472	4038523	518.583	551.404
9)	2,4,6-Trinitroto	11.70	11.70	2204685	3230757	400.036	417.808
10)	Nitroglycerin	0.00	12.54	0	7764181	N.D.	2429.821 #
11)	Tetryl	13.51	13.50	1757329	3485746	439.948	454.862
13)	2,6-Dinitrotolue	15.41	15.40	3741514	6108600	501.024	554.445
14)	2,4-Dinitrotolue	16.36	16.36	5796640	4097851	496.326	527.399
15)	o-Nitrotoluene	18.82	18.80	2658700	3878361	540.855	567.807
16)	3,5-Dinitroanili	18.15	18.14	4809561	8239583	472.389	454.373
17)	p-Nitrotoluene	20.67	20.68	1689675	1826547	540.972	541.058
18)	4-Amino-2,6-Dini	21.31	21.33	2693980	3120536	526.769	524.739
19)	m-Nitrotoluene	22.64	22.68	2727140	3934759	544.548	551.021m
20)	2-Amino-4,6-Dini	23.71	23.72	4868501	6504482	541.550	561.636m
21)	PETN	0.00	24.86	0	8660110	N.D. d	2594.295m

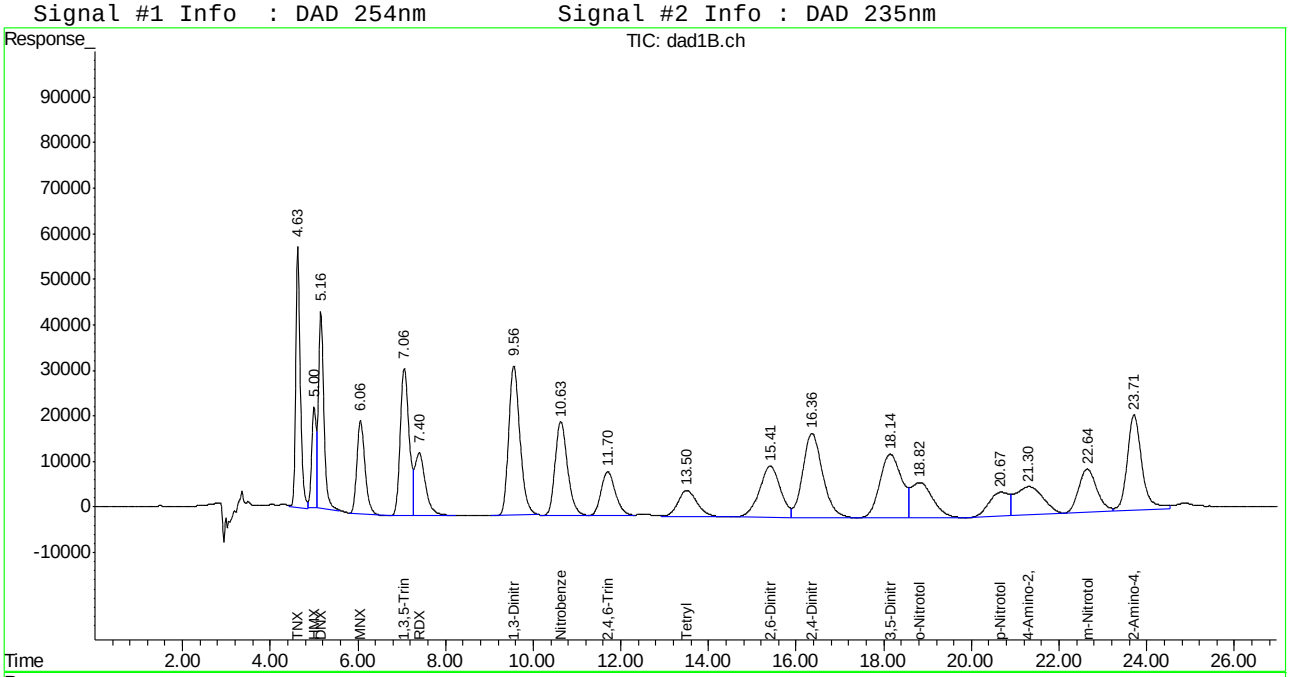
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
GG060864.D 8330RPB.M_1230.M Tue Jan 03 11:15:13 2017 Page 1

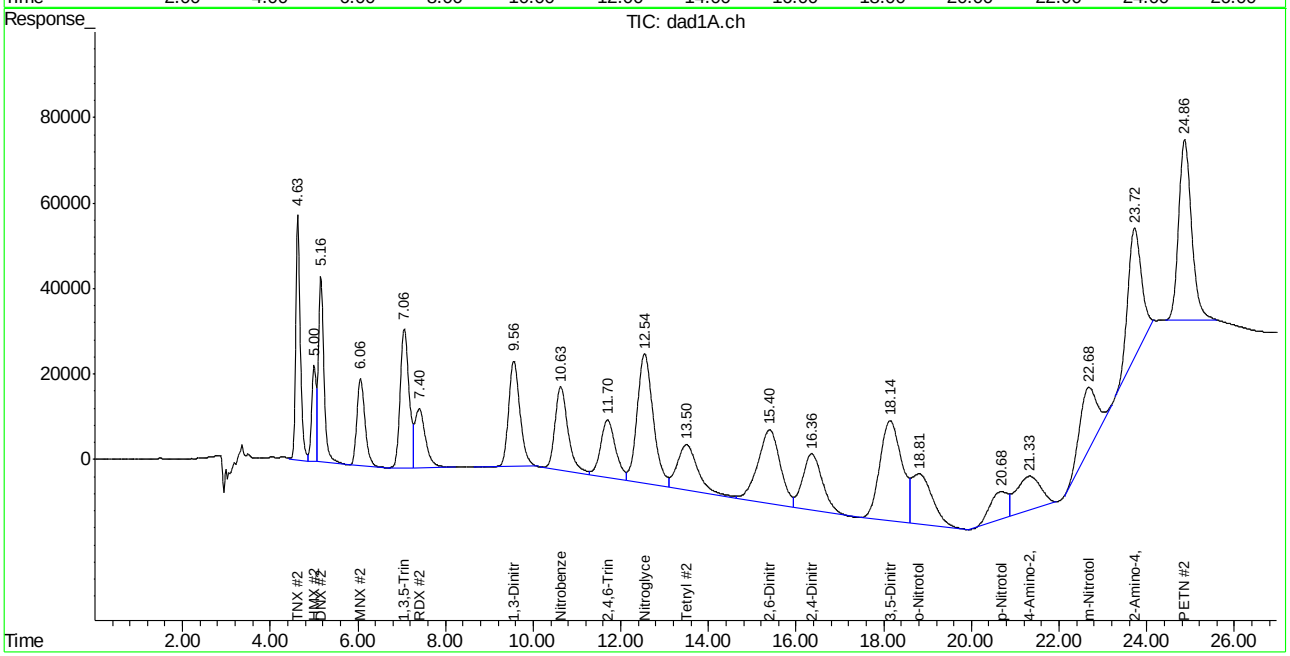
Quantitation Report (QT Reviewed)

Signal #1 : G:\DATA\1230RPB3\GG060864.D\dad1B.ch Vial: 28
Signal #2 : G:\DATA\1230RPB3\GG060864.D\dad1A.ch
Acq On : 30-Dec-2016, 18:13:52 Operator: kismetl
Sample : icv2500-500 Inst : G1315B
Misc : OP63245,GGG2500,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Jan 3 11:06 2017 Quant Results File: 8330RPB.M_1230.RES

Quant Method : C:\MSDCHEM\1...\8330RPB.M_1230.M (Chemstation Integrator)
Title : Explosives by 8330A,8330B,8332
Last Update : Tue Jan 03 10:58:03 2017
Response via : Multiple Level Calibration
DataAcq Meth : 8330RPB3.M

Volume Inj. : 100ul
Signal #1 Phase : Bonus RP Signal #2 Phase: Bonus RP
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235nm





SGS 011479
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ACCUTEST FA41143

Manual Integration Approval Summary

Sample Number: GGG2500-ICV2500 **Method:** SW846 8330A
Lab FileID: GG060864.D **Analyst approved:** 01/03/17 14:10 (b) (6)
Injection Time: 12/30/16 18:13 **Supervisor approved:** 01/03/17 15:37 (b) (6)

Parameter	CAS	Sig#	R.T. (min.)	Reason
HMX	2691-41-0	1	5.00	Poor instrument integration
DNX		1	5.16	Poor instrument integration
m-Nitrotoluene	99-08-1	2	22.68	Poor instrument integration
2-amino-4,6-Dinitrotoluene	35572-78-2	2	23.72	Poor instrument integration
PETN	78-11-5	2	24.86	Poor instrument integration

SGS ACCUTEST FA41143

Manual Integrations APPROVED

(b) (6)

Quantitation Report (QT Reviewed)

Signal #1 : G:\DATA\0221RPB3\GG060986.D\dad1B.ch Vial: 2
Signal #2 : G:\DATA\0221RPB3\GG060986.D\dad1A.ch
Acq On : 21-Feb-2017, 09:54:30 Operator: kismetl
Sample : cc2500-1000 Inst : G1315B
Misc : OP63863,Ggg2508,2.00,,,20,,soil Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Feb 21 10:31:00 2017 Quant Results File: 8330RPB.M_1230.RES

Quant Method : C:\MSDCHEM\1...\8330RPB.M_1230.M (Chemstation Integrator)
Title : Explosives by 8330A,8330B,8332
Last Update : Tue Feb 21 10:30:23 2017
Response via : Initial Calibration
DataAcq Meth : 8330RPB3.M

Volume Inj. : 100ul
Signal #1 Phase : Bonus RP Signal #2 Phase: Bonus RP
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
12) S	3,4-Dinitrotolue	14.82	14.82	4655203	10360975	1032.996	1066.138
	Spiked Amount 500.000	Range 69 - 134		Recovery =		206.60%#	213.23%#
	Target Compounds						
1)	TNX	4.62	4.62	7961166	7961166	973.278	962.300
2)	HMX	5.00	5.00	2670430	2670430	992.724	966.637
3)	DNX	5.15	5.15	7183464	7183464	940.603	950.454
4)	MNX	6.04	6.04	5187993	5187993	1015.337	1017.914
5)	1,3,5-Trinitrobe	7.01	7.01	8962355	8962355	968.016	969.337
6)	RDX	7.37	7.37	4318957	4318957	1000.739	1000.739
7)	1,3-Dinitrobenze	9.49	9.49	11973263	9261937	905.728	1021.658
8)	Nitrobenzene	10.54	10.54	7374766	7129410	950.766	962.034
9)	2,4,6-Trinitroto	11.59	11.59	5511521	7666418	959.060	964.213
10)	Nitroglycerin	0.00	12.41	0	15530098	N.D. d	4860.185
11)	Tetryl	13.37	13.36	3660137	7113684	885.376	928.278
13)	2,6-Dinitrotolue	15.25	15.23	7089813	10118482	949.393	918.400
14)	2,4-Dinitrotolue	16.21	16.20	11147054	7673007	954.444	958.655
15)	o-Nitrotoluene	18.61	18.59	4776585	6899107	971.693	975.053
16)	3,5-Dinitroanili	17.97	17.97	10295788	17631658	1011.239	972.301
17)	p-Nitrotoluene	20.42	20.41	3387817	4545659	1033.316	1136.179m
18)	4-Amino-2,6-Dini	21.11	21.11	5423155	8375034	982.353	1081.049m
19)	m-Nitrotoluene	22.46	22.47	5064201	7733278	966.705	1017.757m
20)	2-Amino-4,6-Dini	23.61	23.61	8739708	12454752	972.166	1030.198m
21)	PETN	0.00	24.72	0	15991571	N.D. d	4790.570m

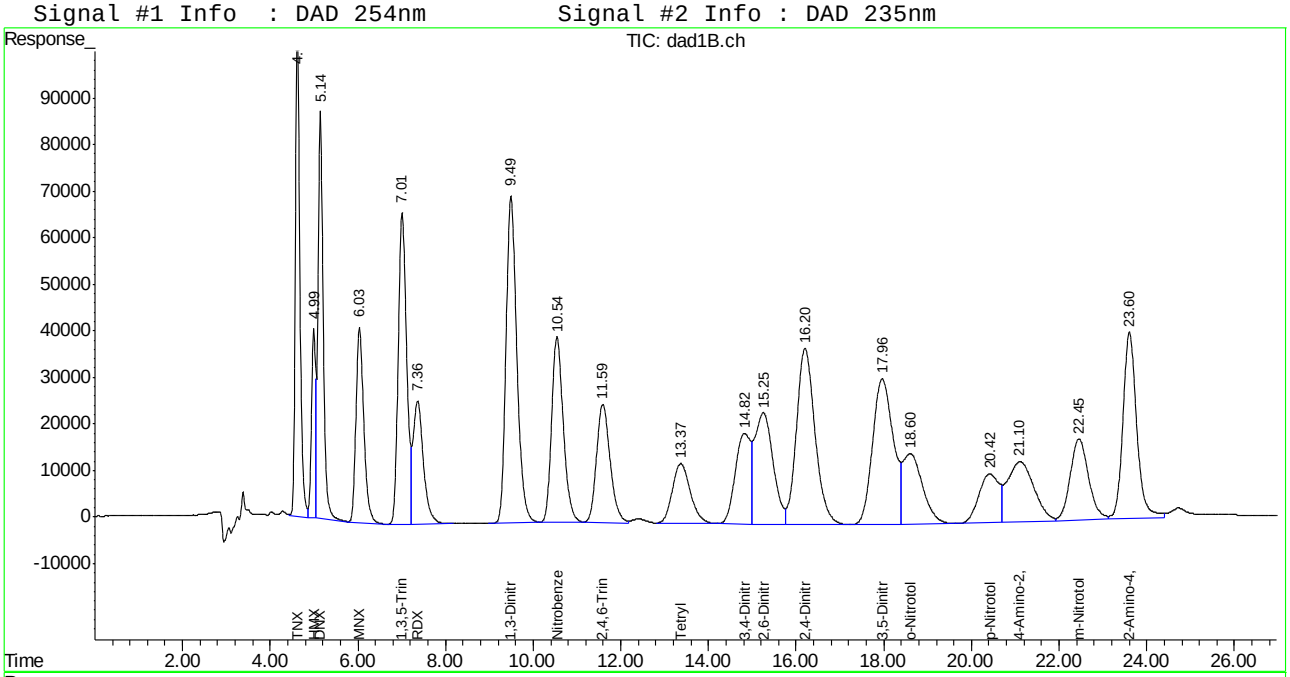
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
GG060986.D 8330RPB.M_1230.M Wed Feb 22 09:46:21 2017 Page 1

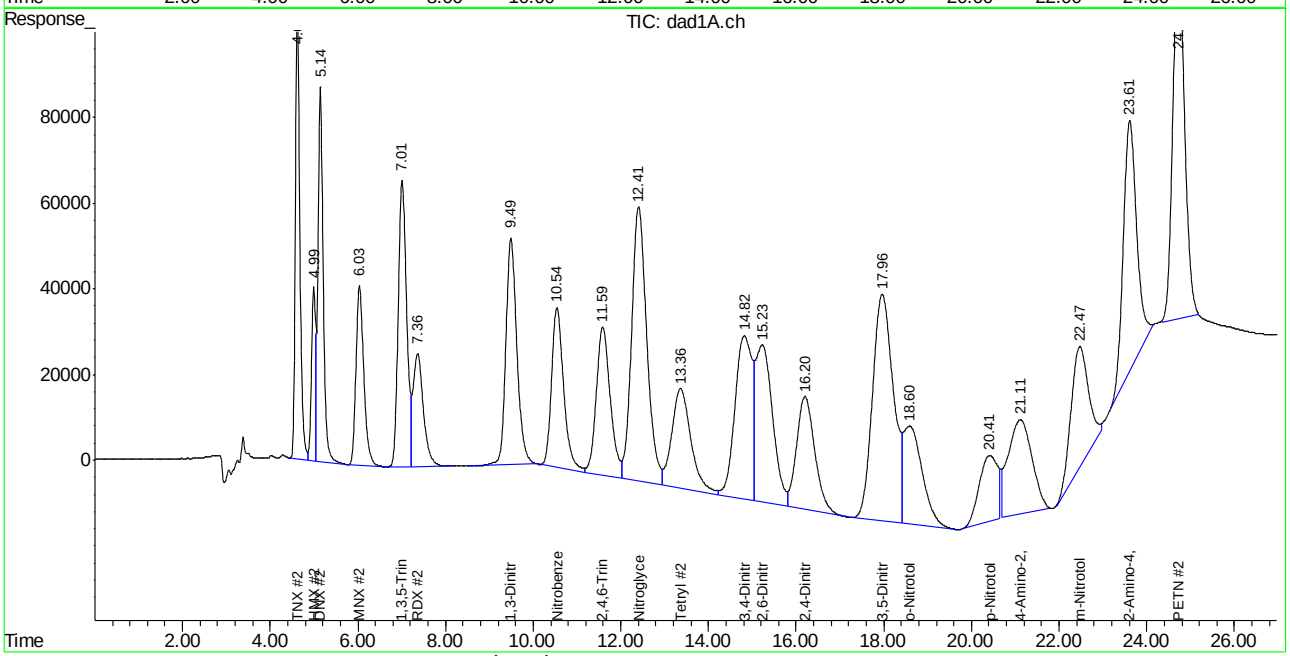
Quantitation Report (QT Reviewed)

Signal #1 : G:\DATA\0221RPB3\GG060986.D\dad1B.ch Vial: 2
Signal #2 : G:\DATA\0221RPB3\GG060986.D\dad1A.ch
Acq On : 21-Feb-2017, 09:54:30 Operator: kismetl
Sample : cc2500-1000 Inst : G1315B
Misc : OP63863,Ggg2508,2.00,,,20,,soil Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Feb 21 10:32 2017 Quant Results File: 8330RPB.M_1230.RES

Quant Method : C:\MSDCHEM\1...\8330RPB.M_1230.M (Chemstation Integrator)
Title : Explosives by 8330A,8330B,8332
Last Update : Tue Feb 21 10:30:23 2017
Response via : Multiple Level Calibration
DataAcq Meth : 8330RPB3.M

Volume Inj. : 100ul
Signal #1 Phase : Bonus RP Signal #2 Phase: Bonus RP
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235nm





SGS ACCUTEST FA41143

Manual Integration Approval Summary

Sample Number: GGG2508-CC2500 **Method:** SW846 8330A
Lab FileID: GG060986.D **Analyst approved:** 02/22/17 09:54 (b) (6)
Injection Time: 02/21/17 09:54 **Supervisor approved:** 02/23/17 17:37 (b) (6)

Parameter	CAS	Sig#	R.T. (min.)	Reason
p-Nitrotoluene	99-99-0	2	20.41	Poorly defined baseline
4-amino-2,6-Dinitrotoluene	19406-51-0	2	21.11	Poorly defined baseline
m-Nitrotoluene	99-08-1	2	22.47	Poorly defined baseline
2-amino-4,6-Dinitrotoluene	35572-78-2	2	23.61	Poorly defined baseline
PETN	78-11-5	2	24.72	Poorly defined baseline

SGS ACCUTEST FA41143

Manual Integrations APPROVED (compounds with "m" flag)
(b) (6)

Quantitation Report (QT Reviewed)

Signal #1 : G:\DATA\0221RPB3\GG060993.D\dad1B.ch Vial: 2
Signal #2 : G:\DATA\0221RPB3\GG060993.D\dad1A.ch
Acq On : 21-Feb-2017, 14:29:57 Operator: kismetl
Sample : ecc2500-1000 Inst : G1315B
Misc : OP63863,Ggg2508,10.1,,,50,,soil Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Feb 21 14:57:33 2017 Quant Results File: 8330RPB.M_1230.RES

Quant Method : C:\MSDCHEM\1...\8330RPB.M_1230.M (Chemstation Integrator)
Title : Explosives by 8330A,8330B,8332
Last Update : Tue Feb 21 10:30:23 2017
Response via : Initial Calibration
DataAcq Meth : 8330RPB3.M

Volume Inj. : 100ul
Signal #1 Phase : Bonus RP Signal #2 Phase: Bonus RP
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
12) S	3,4-Dinitrotolue	14.91	14.91	4599755	10244126	1020.692	1055.039
	Spiked Amount 500.000	Range 69 - 134		Recovery =		204.14%#	211.01%#
	Target Compounds						
1)	TNX	4.63	4.63	7872632	7872632	962.455	951.599
2)	HMX	5.01	5.01	2689860	2689860	999.947	973.670
3)	DNX	5.16	5.16	7164550	7164550	938.126	947.951
4)	MNX	6.06	6.06	5067464	5067464	991.749	994.265
5)	1,3,5-Trinitrobe	7.03	7.03	8985436	8985436	970.509	971.833
6)	RDX	7.39	7.39	4183203	4183203	971.149	971.149
7)	1,3-Dinitrobenze	9.52	9.52	11706503	8910327	885.549	984.868
8)	Nitrobenzene	10.58	10.58	7507917	7163703	967.932	966.537
9)	2,4,6-Trinitroto	11.64	11.64	5473108	7467289	952.812	940.299
10)	Nitroglycerin	0.00	12.47	0	15059960	N.D. d	4713.054
11)	Tetryl	13.44	13.44	3624186	6896699	877.222	899.963
13)	2,6-Dinitrotolue	15.34	15.31	6921074	9906281	926.797	899.140
14)	2,4-Dinitrotolue	16.30	16.30	10942940	7535281	936.967	942.481
15)	o-Nitrotoluene	18.75	18.74	4985181	7330970	1014.127	1031.165
16)	3,5-Dinitroanili	18.08	18.07	10117200	17316517	993.698	954.923
17)	p-Nitrotoluene	20.57	20.56	3495483	4464720	1063.110	1120.547m
18)	4-Amino-2,6-Dini	21.27	21.28	5445746	7988493	985.883	1046.330
19)	m-Nitrotoluene	22.58	22.59	5569925	8293388	1053.688	1082.440m
20)	2-Amino-4,6-Dini	23.68	23.68	8912218	11731561	991.355	975.193m
21)	PETN	0.00	24.80	0	15970108	N.D. d	4784.140m

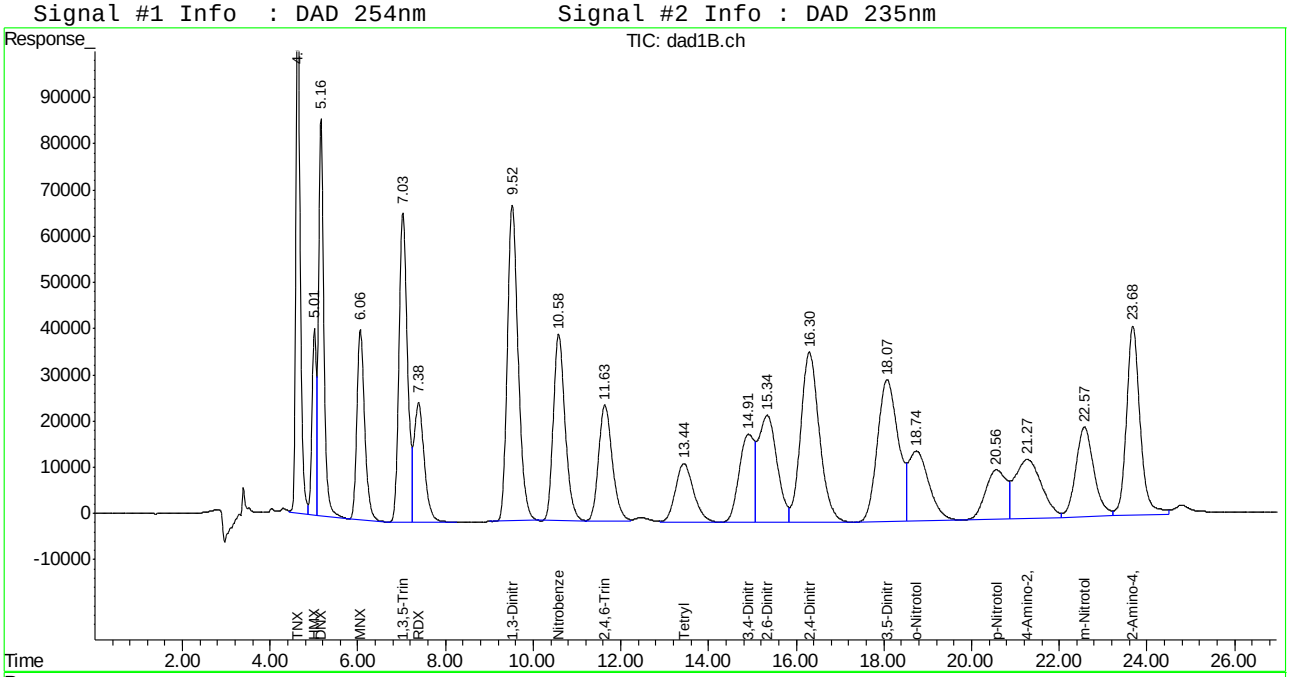
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
GG060993.D 8330RPB.M_1230.M Wed Feb 22 09:46:26 2017 Page 1

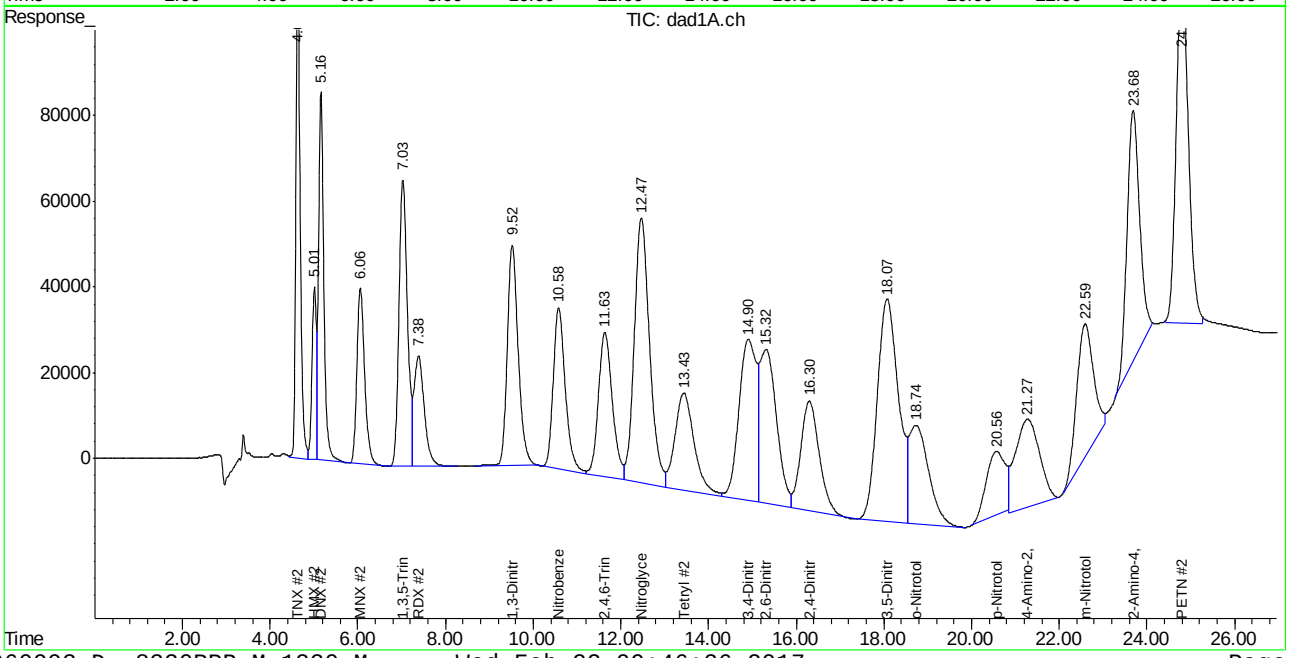
Quantitation Report (QT Reviewed)

Signal #1 : G:\DATA\0221RPB3\GG060993.D\dad1B.ch Vial: 2
Signal #2 : G:\DATA\0221RPB3\GG060993.D\dad1A.ch
Acq On : 21-Feb-2017, 14:29:57 Operator: kismetl
Sample : ecc2500-1000 Inst : G1315B
Misc : OP63863,Ggg2508,10.1,,,50,,soil Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e
Quant Time: Feb 21 15:00 2017 Quant Results File: 8330RPB.M_1230.RES

Quant Method : C:\MSDCHEM\1...\8330RPB.M_1230.M (Chemstation Integrator)
Title : Explosives by 8330A,8330B,8332
Last Update : Tue Feb 21 10:30:23 2017
Response via : Multiple Level Calibration
DataAcq Meth : 8330RPB3.M

Volume Inj. : 100ul
Signal #1 Phase : Bonus RP Signal #2 Phase: Bonus RP
Signal #1 Info : DAD 254nm Signal #2 Info : DAD 235nm





SGS ACCUTEST FA41143

Manual Integration Approval Summary

Sample Number: GGG2508-ECC2500 **Method:** SW846 8330A
Lab FileID: GG060993.D **Analyst approved:** 02/22/17 09:54 (b) (6)
Injection Time: 02/21/17 14:29 **Supervisor approved:** 02/23/17 17:37 (b) (6)

Parameter	CAS	Sig#	R.T. (min.)	Reason
p-Nitrotoluene	99-99-0	2	20.56	Poorly defined baseline
m-Nitrotoluene	99-08-1	2	22.59	Poorly defined baseline
2-amino-4,6-Dinitrotoluene	35572-78-2	2	23.68	Poorly defined baseline
PETN	78-11-5	2	24.80	Poorly defined baseline

SGS ACCUTEST FA41143

Manual Integrations APPROVED (compounds with "m" flag)

(b) (6)

Quantitation Report (QT Reviewed)

Signal #1 : P:\DATA\0118BPL\PP381202.D\dad1B.ch Vial: 3
Signal #2 : P:\DATA\0118BPL\PP381202.D\dad1A.ch
Acq On : 18-Jan-2017, 08:20:23 Operator: kismetl
Sample : ic2066-20 Inst : G1315B
Misc : OP63244,GPP2066,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jan 18 10:25:29 2017 Quant Results File: 8330-1003BPLUS.RES

Quant Method : C:\MSDCHEM\2...\8330-1003BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330A.8330B,8332
Last Update : Wed Jan 18 10:25:11 2017
Response via : Initial Calibration
DataAcq Meth : 8330BPL.M

Volume Inj. : 100ul
Signal #1 Phase : Extend C-18 Signal #2 Phase: Extend C-18
Signal #1 Info : DAD 254/270nm Signal #2 Info : DAD 214/235nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
15) S	3,4-Dinitrotolue	10.00	10.00	46636	89569	22.552m	22.974
Spiked Amount	500.000	Range	70 - 136	Recovery	=	4.51%#	4.59%#
	Target Compounds						
1)	TNX	1.16	1.16	51954	76586	16.785m	15.520m
2)	HMX	1.20	1.22	32795	93360	20.432m	21.267m
3)	DNX	1.48	1.47	81348	265638	28.076m	55.579m#
4)	MNX	1.97	1.97	50047	67832	22.059m	19.175m
5)	RDX	2.50	2.50	42122	70948	22.954m	24.450m
6)	1,3,5-Trinitrobe	4.04	4.05	81141	157275	21.696m	21.705
7)	1,3-Dinitrobenze	5.21	5.22	99992	66290	19.686m	19.463m
8)	3,5-Dinitroanili	5.56	5.56	91011	156871	20.319m	20.796m
9)	Nitrobenzene	6.77	6.77	70664	59054	23.471m	20.988m
10)	Nitroglycerin	0.00	8.15	0	139812	N.D.	96.562 #
11)	Tetryl	8.42	8.42	57059	78111	29.629m	30.206
12)	2,4,6-Trinitroto	8.83	8.83	83211	76637	24.132m	17.762
13)	2-Amino-4,6-Dini	9.13	9.14	57494	111201	18.327m	22.600
14)	4-Amino-2,6-Dini	9.61	9.59	55485	113050	24.080m	23.577
16)	2,4-Dinitrotolue	10.61	10.62	94012	74249	20.558m	24.963
17)	2,6-Dinitrotolue	11.01	11.04	58340	32904	23.298m	11.060 #
18)	o-Nitrotoluene	13.64	13.72	51750	74201	23.999m	24.237m
19)	p-Nitrotoluene	14.06	14.11	74424	59205	21.941	20.634m
20)	m-Nitrotoluene	14.65	14.67	69467	75123	21.922m	19.678m
21)	PETN	0.00	16.15	0	172455	N.D.	118.234m#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
PP381202.D 8330-0118BPLUS.M Thu Jan 19 06:39:35 2017 Page 1

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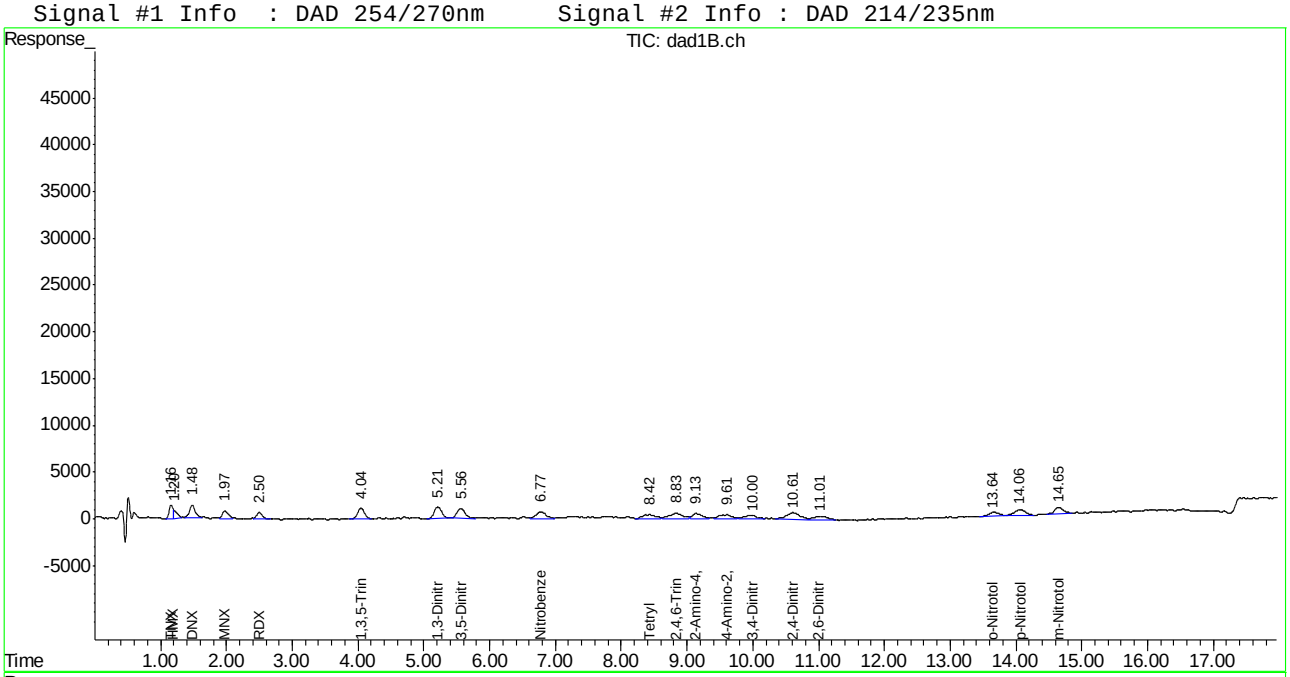
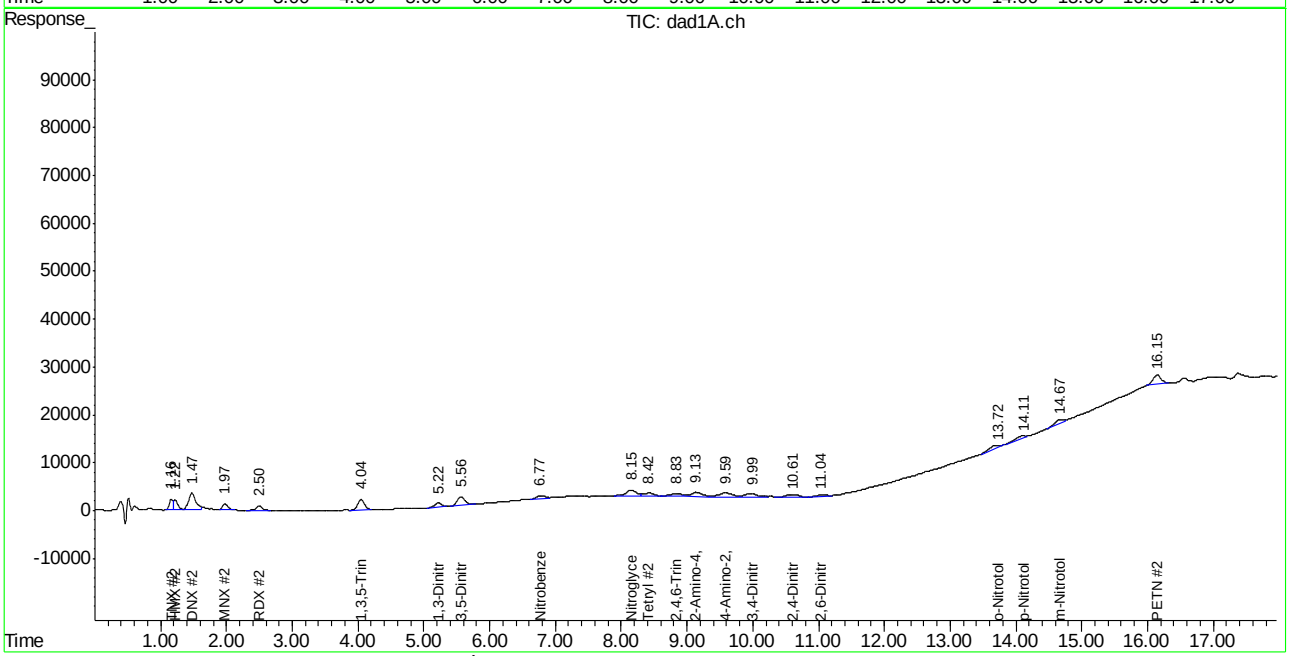
Quantitation Report (QT Reviewed)

Signal #1 : P:\DATA\0118BPL\PP381202.D\dad1B.ch Vial: 3
Signal #2 : P:\DATA\0118BPL\PP381202.D\dad1A.ch
Acq On : 18-Jan-2017, 08:20:23 Operator: kismetl
Sample : ic2066-20 Inst : G1315B
Misc : OP63244,GPP2066,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jan 18 10:32 2017 Quant Results File: 8330-1003BPLUS.RES

Quant Method : C:\MSDCHEM\2...\8330-1003BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330A.8330B,8332
Last Update : Wed Jan 18 10:25:11 2017
Response via : Multiple Level Calibration
DataAcq Meth : 8330BPL.M

Volume Inj. : 100ul
Signal #1 Phase : Extend C-18 Signal #2 Phase: Extend C-18
Signal #1 Info : DAD 254/270nm Signal #2 Info : DAD 214/235nm





SGS ACCUTEST FA41143 011488

Manual Integration Approval Summary

Sample Number: GPP2066-IC2066 **Method:** SW846 8330B
Lab FileID: PP381202.D **Analyst approved:** 01/19/17 13:25 (b) (6)
Injection Time: 01/18/17 08:20 **Supervisor approved:** 01/25/17 16:40 (b) (6)

Parameter	CAS	Sig#	R.T. (min.)	Reason
TNX		1	1.16	Overlapping peak
TNX		2	1.16	Overlapping peak
HMX	2691-41-0	1	1.20	Missed peak
HMX	2691-41-0	2	1.22	Overlapping peak
DNX		2	1.47	Poor instrument integration
DNX		1	1.48	Poor instrument integration
MNX		1	1.97	Poor instrument integration
MNX		2	1.97	Poor instrument integration
RDX	121-82-4	1	2.50	Poor instrument integration
RDX	121-82-4	2	2.50	Poor instrument integration
1,3,5-Trinitrobenzene	99-35-4	1	4.04	Poor instrument integration
1,3-Dinitrobenzene	99-65-0	1	5.21	Poor instrument integration
1,3-Dinitrobenzene	99-65-0	2	5.22	Poor instrument integration
3,5-Dinitroaniline	618-87-1	1	5.56	Poor instrument integration
3,5-Dinitroaniline	618-87-1	2	5.56	Poor instrument integration
Nitrobenzene	98-95-3	1	6.77	Poor instrument integration
Nitrobenzene	98-95-3	2	6.77	Poor instrument integration
Tetryl	479-45-8	1	8.42	Poor instrument integration
2,4,6-Trinitrotoluene	118-96-7	1	8.83	Poor instrument integration
2-amino-4,6-Dinitrotoluene	35572-78-2	1	9.13	Poor instrument integration
4-amino-2,6-Dinitrotoluene	19406-51-0	1	9.61	Poor instrument integration
3,4-Dinitrotoluene	610-39-9	1	10.00	Poor instrument integration
2,4-Dinitrotoluene	121-14-2	1	10.61	Poor instrument integration
2,6-Dinitrotoluene	606-20-2	1	11.01	Poor instrument integration
o-Nitrotoluene	88-72-2	1	13.64	Poor instrument integration
o-Nitrotoluene	88-72-2	2	13.72	Missed peak
p-Nitrotoluene	99-99-0	2	14.11	Missed peak
m-Nitrotoluene	99-08-1	1	14.65	Poor instrument integration
m-Nitrotoluene	99-08-1	2	14.67	Missed peak
PETN	78-11-5	2	16.15	Poor instrument integration

Manual Integrations APPROVED (compounds with "m" flag)

(b) (6)

Quantitation Report (QT Reviewed)

Signal #1 : P:\DATA\0118BPL\PP381203.D\dad1B.ch Vial: 4
Signal #2 : P:\DATA\0118BPL\PP381203.D\dad1A.ch
Acq On : 18-Jan-2017, 08:45:22 Operator: kismetl
Sample : ic2066-50 Inst : G1315B
Misc : OP63244,GPP2066,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jan 18 10:25:30 2017 Quant Results File: 8330-1003BPLUS.RES

Quant Method : C:\MSDCHEM\2...\8330-1003BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330A.8330B,8332
Last Update : Wed Jan 18 10:25:11 2017
Response via : Initial Calibration
DataAcq Meth : 8330BPL.M

Volume Inj. : 100ul
Signal #1 Phase : Extend C-18 Signal #2 Phase: Extend C-18
Signal #1 Info : DAD 254/270nm Signal #2 Info : DAD 214/235nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
15) S	3,4-Dinitrotolue	9.96	9.97	98085	200314	47.432m	51.379
Spiked Amount	500.000	Range 70 - 136		Recovery =		9.49%#	10.28%#
	Target Compounds						
1)	TNX	1.16	1.16	158253	201685	51.127m	40.870m
2)	HMX	1.21	1.22	78972	247279	49.201m	56.330m
3)	DNX	1.48	1.48	158541	411081	54.718m	86.010m#
4)	MNX	1.98	1.98	122458	183603	53.976m	51.901m
5)	RDX	2.50	2.50	90554	154998	49.346m	53.414
6)	1,3,5-Trinitrobe	4.05	4.05	208203	385339	55.671m	53.180
7)	1,3-Dinitrobenze	5.22	5.22	264608	170769	52.096m	50.139m
8)	3,5-Dinitroanili	5.56	5.57	244352	391743	54.554m	51.931
9)	Nitrobenzene	6.78	6.79	149648	164953	49.704m	58.625m
10)	Nitroglycerin	0.00	8.16	0	356203	N.D.	246.014 #
11)	Tetryl	8.43	8.43	95412	160139	49.545m	61.926
12)	2,4,6-Trinitroto	8.84	8.84	133279	199519	38.653m	46.243
13)	2-Amino-4,6-Dini	9.17	9.16	153759	261106	49.013m	53.067
14)	4-Amino-2,6-Dini	9.60	9.60	106327	265655	46.145m	55.403
16)	2,4-Dinitrotolue	10.62	10.62	234655	137866	51.313m	46.352
17)	2,6-Dinitrotolue	11.05	11.07	133460	98056	53.298m	32.908
18)	o-Nitrotoluene	13.65	13.69	102486	154155	47.529m	50.353m
19)	p-Nitrotoluene	14.06	14.09	172967	140489	50.993m	48.962m
20)	m-Nitrotoluene	14.65	14.66	172077	198771	54.303m	52.066m
21)	PETN	0.00	16.14	0	386988	N.D.	265.317m#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
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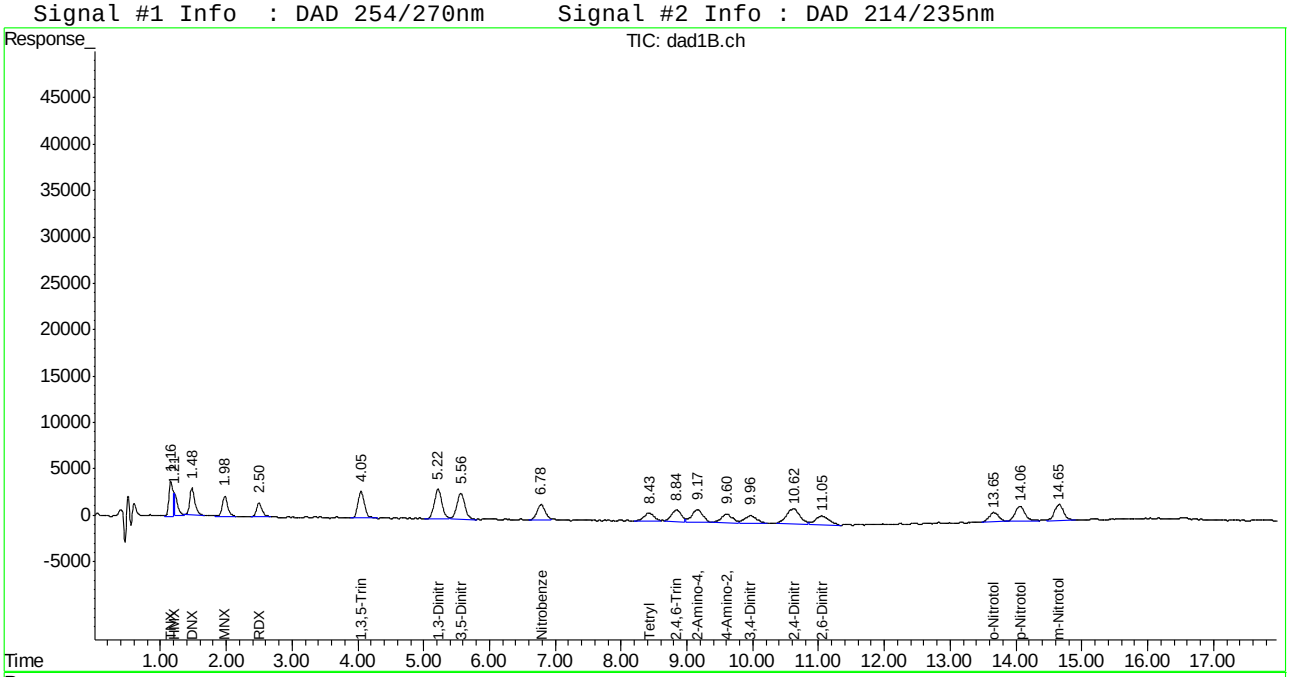
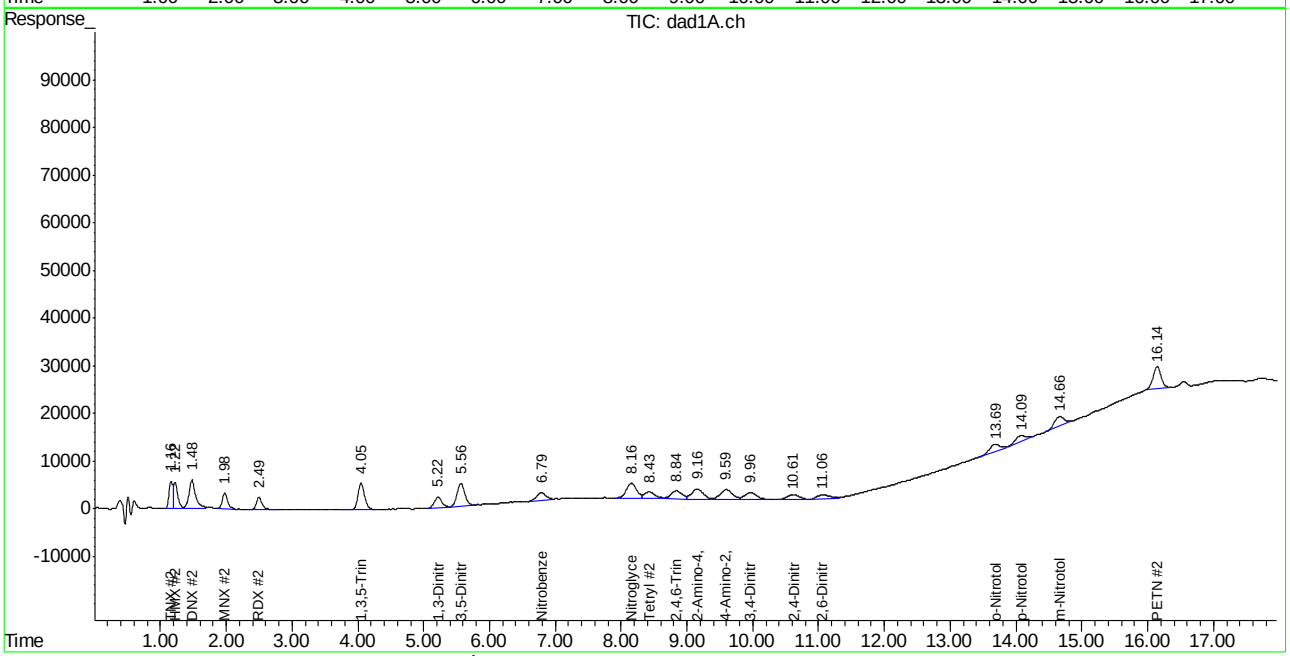
Quantitation Report (QT Reviewed)

Signal #1 : P:\DATA\0118BPL\PP381203.D\dad1B.ch Vial: 4
Signal #2 : P:\DATA\0118BPL\PP381203.D\dad1A.ch
Acq On : 18-Jan-2017, 08:45:22 Operator: kismetl
Sample : ic2066-50 Inst : G1315B
Misc : OP63244,GPP2066,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jan 18 10:36 2017 Quant Results File: 8330-1003BPLUS.RES

Quant Method : C:\MSDCHEM\2...\8330-1003BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330A.8330B,8332
Last Update : Wed Jan 18 10:25:11 2017
Response via : Multiple Level Calibration
DataAcq Meth : 8330BPL.M

Volume Inj. : 100ul
Signal #1 Phase : Extend C-18 Signal #2 Phase: Extend C-18
Signal #1 Info : DAD 254/270nm Signal #2 Info : DAD 214/235nm





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Manual Integration Approval Summary

Sample Number: GPP2066-IC2066 **Method:** SW846 8330B
Lab FileID: PP381203.D **Analyst approved:** 01/19/17 13:25 (b) (6)
Injection Time: 01/18/17 08:45 **Supervisor approved:** 01/25/17 16:40 (b) (6)

Parameter	CAS	Sig#	R.T. (min.)	Reason
TNX		1	1.16	Overlapping peak
TNX		2	1.16	Overlapping peak
HMX	2691-41-0	1	1.21	Overlapping peak
HMX	2691-41-0	2	1.22	Overlapping peak
DNX		1	1.48	Poor instrument integration
DNX		2	1.48	Poor instrument integration
MNX		1	1.98	Poor instrument integration
MNX		2	1.98	Poor instrument integration
RDX	121-82-4	1	2.50	Poor instrument integration
1,3,5-Trinitrobenzene	99-35-4	1	4.05	Poor instrument integration
1,3-Dinitrobenzene	99-65-0	1	5.22	Poor instrument integration
1,3-Dinitrobenzene	99-65-0	2	5.22	Poor instrument integration
3,5-Dinitroaniline	618-87-1	1	5.56	Poor instrument integration
Nitrobenzene	98-95-3	1	6.78	Poor instrument integration
Nitrobenzene	98-95-3	2	6.79	Poor instrument integration
Tetryl	479-45-8	1	8.43	Poor instrument integration
2,4,6-Trinitrotoluene	118-96-7	1	8.84	Poor instrument integration
2-amino-4,6-Dinitrotoluene	35572-78-2	1	9.17	Poor instrument integration
4-amino-2,6-Dinitrotoluene	19406-51-0	1	9.60	Poor instrument integration
3,4-Dinitrotoluene	610-39-9	1	9.96	Poor instrument integration
2,4-Dinitrotoluene	121-14-2	1	10.62	Poor instrument integration
2,6-Dinitrotoluene	606-20-2	1	11.05	Poor instrument integration
o-Nitrotoluene	88-72-2	1	13.65	Poor instrument integration
o-Nitrotoluene	88-72-2	2	13.69	Poor instrument integration
p-Nitrotoluene	99-99-0	1	14.06	Poor instrument integration
p-Nitrotoluene	99-99-0	2	14.09	Poor instrument integration
m-Nitrotoluene	99-08-1	1	14.65	Poor instrument integration
m-Nitrotoluene	99-08-1	2	14.66	Poor instrument integration
PETN	78-11-5	2	16.14	Poor instrument integration

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Manual Integrations APPROVED (compounds with "m" flag)

(b) (6)

Quantitation Report (QT Reviewed)

Signal #1 : P:\DATA\0118BPL\PP381204.D\dad1B.ch Vial: 5
Signal #2 : P:\DATA\0118BPL\PP381204.D\dad1A.ch
Acq On : 18-Jan-2017, 09:10:21 Operator: kismetl
Sample : ic2066-100 Inst : G1315B
Misc : OP63244,GPP2066,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jan 18 10:25:31 2017 Quant Results File: 8330-1003BPLUS.RES

Quant Method : C:\MSDCHEM\2...\8330-1003BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330A.8330B,8332
Last Update : Wed Jan 18 10:25:11 2017
Response via : Initial Calibration
DataAcq Meth : 8330BPL.M

Volume Inj. : 100ul
Signal #1 Phase : Extend C-18 Signal #2 Phase: Extend C-18
Signal #1 Info : DAD 254/270nm Signal #2 Info : DAD 214/235nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
15) S	3,4-Dinitrotolue	9.96	9.97	205271	392775	99.265m	100.744
Spiked Amount	500.000	Range 70 - 136		Recovery =		19.85%#	20.15%#
	Target Compounds						
1)	TNX	1.16	1.16	295930	435588	95.607m	88.269
2)	HMX	1.21	1.23	173104	535383	107.848m	121.960
3)	DNX	1.48	1.48	311880	661501	107.640	138.405m
4)	MNX	1.98	1.98	232754	359951	102.591	101.751m
5)	RDX	2.50	2.50	177327	297288	96.631m	102.449
6)	1,3,5-Trinitrobe	4.05	4.05	411128	779925	109.930	107.637
7)	1,3-Dinitrobenze	5.22	5.22	500112	342553	98.461	100.575m
8)	3,5-Dinitroanili	5.57	5.57	463811	790558	103.551	104.800
9)	Nitrobenzene	6.78	6.78	307718	304724	102.206m	108.300m
10)	Nitroglycerin	0.00	8.16	0	694577	N.D.	479.715 #
11)	Tetryl	8.43	8.43	173022	315473	89.845m	121.995
12)	2,4,6-Trinitroto	8.84	8.84	287190	416526	83.289m	96.540
13)	2-Amino-4,6-Dini	9.16	9.16	311773	518875	99.383m	105.455
14)	4-Amino-2,6-Dini	9.60	9.60	232733	517662	101.004m	107.960
16)	2,4-Dinitrotolue	10.61	10.61	479978	272910	104.958m	91.755
17)	2,6-Dinitrotolue	11.06	11.07	263368	242284	105.178m	81.037
18)	o-Nitrotoluene	13.66	13.67	219016	261062	101.570m	85.273m
19)	p-Nitrotoluene	14.06	14.06	328213	276752	96.761m	96.451m
20)	m-Nitrotoluene	14.65	14.66	325186	389542	102.619m	102.037m
21)	PETN	0.00	16.14	0	716611	N.D. d	491.305m

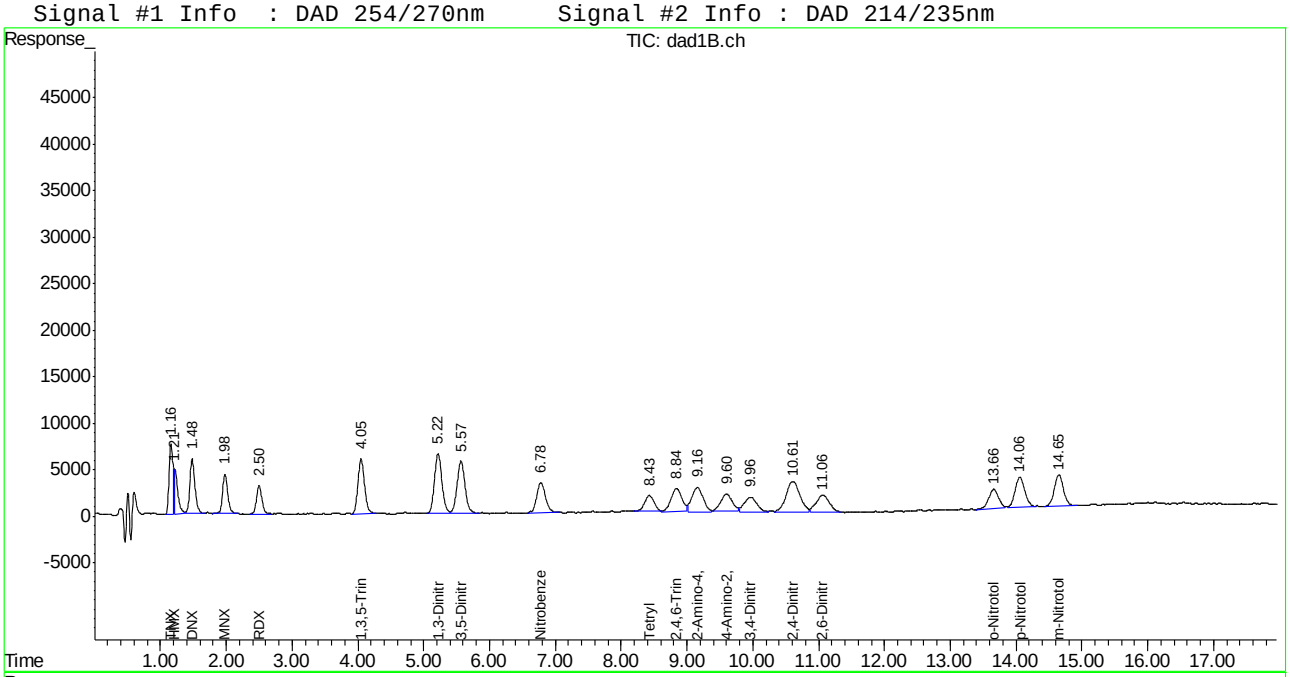
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
PP381204.D 8330-0118BPLUS.M Thu Jan 19 06:39:52 2017 Page 1

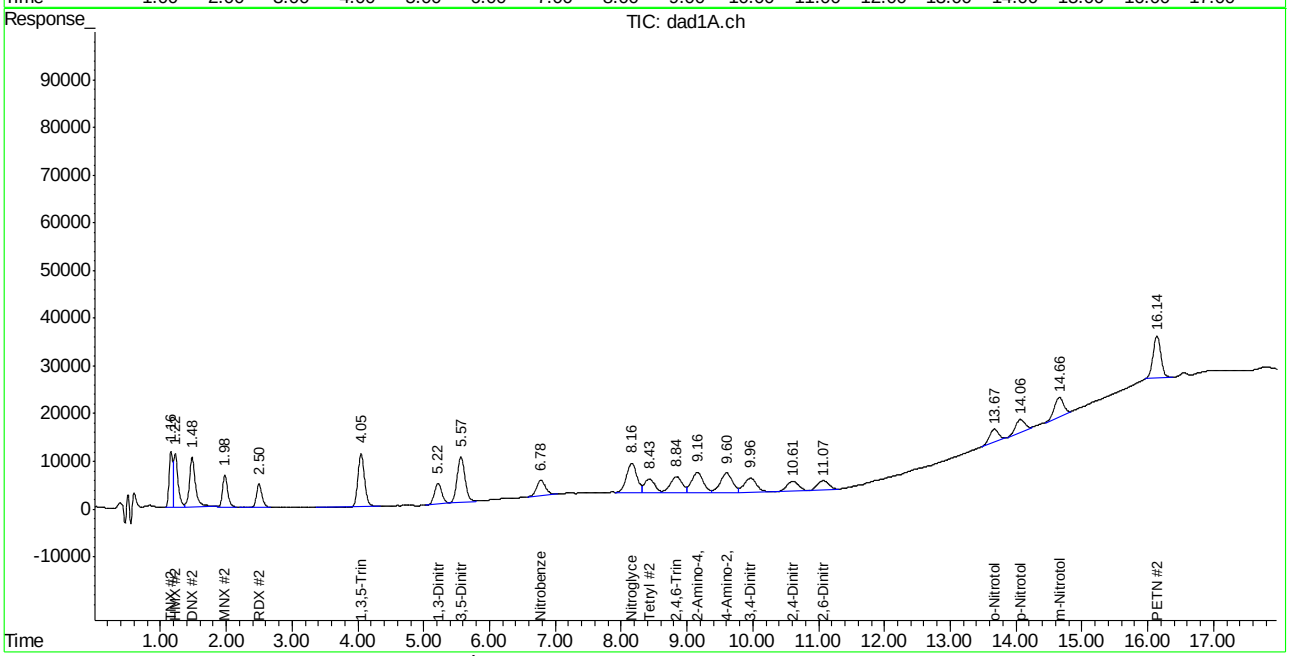
Quantitation Report (QT Reviewed)

Signal #1 : P:\DATA\0118BPL\PP381204.D\dad1B.ch Vial: 5
Signal #2 : P:\DATA\0118BPL\PP381204.D\dad1A.ch
Acq On : 18-Jan-2017, 09:10:21 Operator: kismetl
Sample : ic2066-100 Inst : G1315B
Misc : OP63244,GPP2066,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jan 18 10:39 2017 Quant Results File: 8330-1003BPLUS.RES

Quant Method : C:\MSDCHEM\2...\8330-1003BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330A.8330B,8332
Last Update : Wed Jan 18 10:25:11 2017
Response via : Multiple Level Calibration
DataAcq Meth : 8330BPL.M

Volume Inj. : 100ul
Signal #1 Phase : Extend C-18 Signal #2 Phase: Extend C-18
Signal #1 Info : DAD 254/270nm Signal #2 Info : DAD 214/235nm





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SGS 011494
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ACCUTEST FA41143

Manual Integration Approval Summary

Sample Number: GPP2066-IC2066 **Method:** SW846 8330B
Lab FileID: PP381204.D **Analyst approved:** 01/19/17 13:25 (b) (6)
Injection Time: 01/18/17 09:10 **Supervisor approved:** 01/25/17 16:40 (b) (6)

Parameter	CAS	Sig#	R.T. (min.)	Reason
TNX		1	1.16	Overlapping peak
HMX	2691-41-0	1	1.21	Overlapping peak
DNX		2	1.48	Poor instrument integration
MNX		2	1.98	Poor instrument integration
RDX	121-82-4	1	2.50	Poor instrument integration
1,3-Dinitrobenzene	99-65-0	2	5.22	Poor instrument integration
Nitrobenzene	98-95-3	1	6.78	Poor instrument integration
Nitrobenzene	98-95-3	2	6.78	Poor instrument integration
Tetryl	479-45-8	1	8.43	Poor instrument integration
2,4,6-Trinitrotoluene	118-96-7	1	8.84	Poor instrument integration
2-amino-4,6-Dinitrotoluene	35572-78-2	1	9.16	Poor instrument integration
4-amino-2,6-Dinitrotoluene	19406-51-0	1	9.60	Poor instrument integration
3,4-Dinitrotoluene	610-39-9	1	9.96	Poor instrument integration
2,4-Dinitrotoluene	121-14-2	1	10.61	Poor instrument integration
2,6-Dinitrotoluene	606-20-2	1	11.06	Poor instrument integration
o-Nitrotoluene	88-72-2	1	13.66	Poor instrument integration
o-Nitrotoluene	88-72-2	2	13.67	Poor instrument integration
p-Nitrotoluene	99-99-0	1	14.06	Poor instrument integration
p-Nitrotoluene	99-99-0	2	14.06	Poor instrument integration
m-Nitrotoluene	99-08-1	1	14.65	Poor instrument integration
m-Nitrotoluene	99-08-1	2	14.66	Poor instrument integration
PETN	78-11-5	2	16.14	Poor instrument integration

Manual Integrations APPROVED (compounds with "m" flag)

(b) (6)

Quantitation Report (QT Reviewed)

Signal #1 : P:\DATA\0118BPL\PP381205.D\dad1B.ch Vial: 6
Signal #2 : P:\DATA\0118BPL\PP381205.D\dad1A.ch
Acq On : 18-Jan-2017, 09:35:15 Operator: kismetl
Sample : ic2066-200 Inst : G1315B
Misc : OP63244,GPP2066,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jan 18 10:25:33 2017 Quant Results File: 8330-1003BPLUS.RES

Quant Method : C:\MSDCHEM\2...\8330-1003BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330A.8330B,8332
Last Update : Wed Jan 18 10:25:11 2017
Response via : Initial Calibration
DataAcq Meth : 8330BPL.M

Volume Inj. : 100ul
Signal #1 Phase : Extend C-18 Signal #2 Phase: Extend C-18
Signal #1 Info : DAD 254/270nm Signal #2 Info : DAD 214/235nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
15) S	3,4-Dinitrotolue	9.97	9.97	412101	744389	199.283m	190.931
Spiked Amount	500.000	Range	70 - 136	Recovery	=	39.86%#	38.19%#
	Target Compounds						
1)	TNX	1.16	1.16	558066	830304	180.296m	168.255m
2)	HMX	1.22	1.23	310841	906871	193.662m	206.584m
3)	DNX	1.49	1.48	556046	1005711	191.909	210.423
4)	MNX	1.98	1.98	456505	699042	201.214	197.605
5)	RDX	2.50	2.50	354846	573251	193.368	197.549
6)	1,3,5-Trinitrobe	4.05	4.05	804678	1552303	215.160	214.232
7)	1,3-Dinitrobenze	5.22	5.22	1005996	684780	198.059	201.054
8)	3,5-Dinitroanili	5.57	5.57	868246	1494900	193.846	198.171
9)	Nitrobenzene	6.79	6.78	573529	590316	190.494	209.800m
10)	Nitroglycerin	0.00	8.16	0	1309718	N.D.	904.567 #
11)	Tetryl	8.42	8.43	390834	606248	202.949m	234.439
12)	2,4,6-Trinitroto	8.84	8.84	565293	780152	163.943m	180.819
13)	2-Amino-4,6-Dini	9.16	9.16	627504	1002985	200.028m	203.845
14)	4-Amino-2,6-Dini	9.59	9.60	460758	972147	199.965m	202.744
16)	2,4-Dinitrotolue	10.60	10.61	903488	567185	197.568m	190.694
17)	2,6-Dinitrotolue	11.06	11.07	530121	545357	211.707m	181.135
18)	o-Nitrotoluene	13.66	13.66	437744	610192	203.007	199.312m
19)	p-Nitrotoluene	14.06	14.06	681111	575935	200.801	200.718m
20)	m-Nitrotoluene	14.65	14.65	650781	766290	205.368	200.722m
21)	PETN	0.00	16.14	0	1433154	N.D. d	982.563m

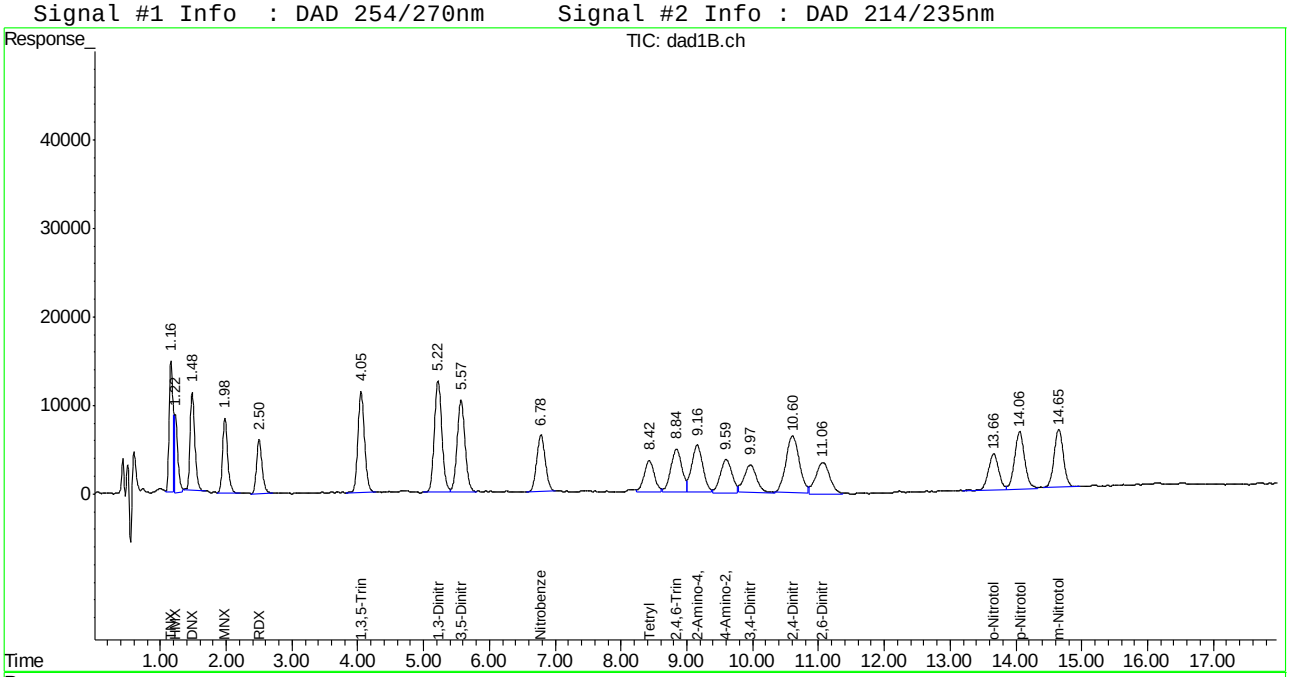
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
PP381205.D 8330-0118BPLUS.M Thu Jan 19 06:39:53 2017 Page 1

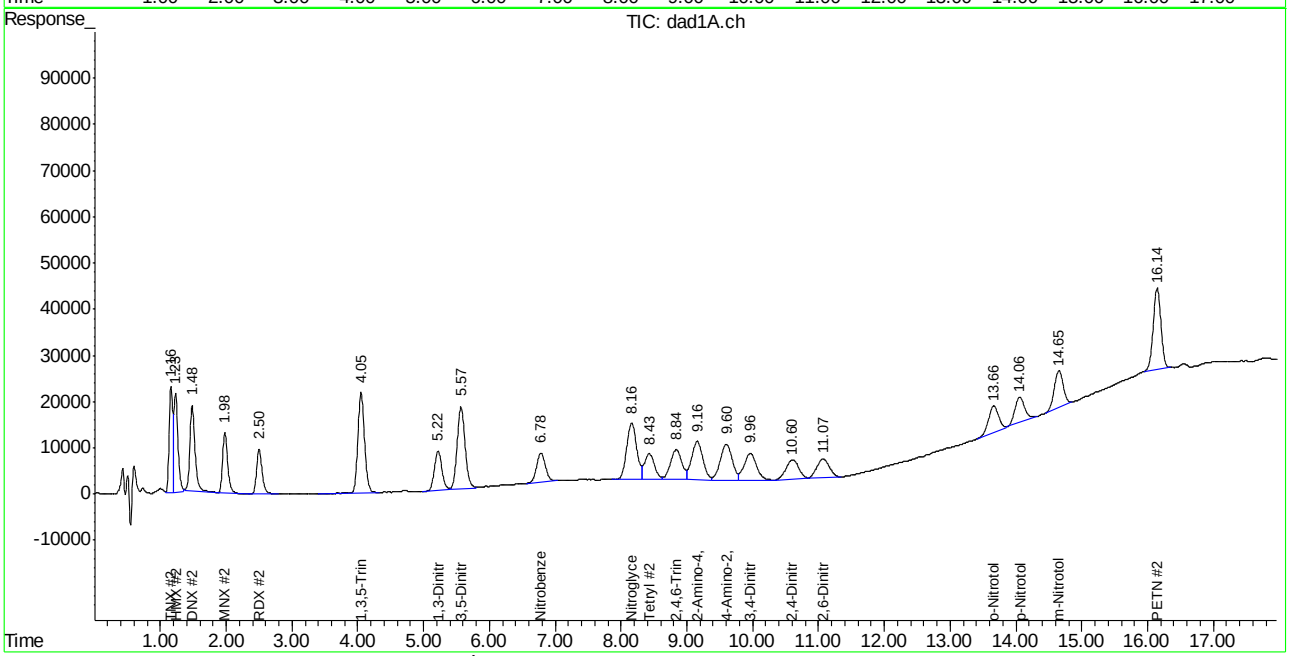
Quantitation Report (QT Reviewed)

Signal #1 : P:\DATA\0118BPL\PP381205.D\dad1B.ch Vial: 6
Signal #2 : P:\DATA\0118BPL\PP381205.D\dad1A.ch
Acq On : 18-Jan-2017, 09:35:15 Operator: kismetl
Sample : ic2066-200 Inst : G1315B
Misc : OP63244,GPP2066,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jan 18 10:43 2017 Quant Results File: 8330-1003BPLUS.RES

Quant Method : C:\MSDCHEM\2...\8330-1003BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330A.8330B,8332
Last Update : Wed Jan 18 10:25:11 2017
Response via : Multiple Level Calibration
DataAcq Meth : 8330BPL.M

Volume Inj. : 100ul
Signal #1 Phase : Extend C-18 Signal #2 Phase: Extend C-18
Signal #1 Info : DAD 254/270nm Signal #2 Info : DAD 214/235nm





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Manual Integration Approval Summary

Sample Number: GPP2066-IC2066 **Method:** SW846 8330B
Lab FileID: PP381205.D **Analyst approved:** 01/19/17 13:25 (b) (6)
Injection Time: 01/18/17 09:35 **Supervisor approved:** 01/25/17 16:40 (b) (6)

Parameter	CAS	Sig#	R.T. (min.)	Reason
TNX		1	1.16	Overlapping peak
TNX		2	1.16	Poor instrument integration
HMX	2691-41-0	1	1.22	Overlapping peak
HMX	2691-41-0	2	1.23	Poor instrument integration
Nitrobenzene	98-95-3	2	6.78	Poor instrument integration
Tetryl	479-45-8	1	8.42	Poor instrument integration
2,4,6-Trinitrotoluene	118-96-7	1	8.84	Poor instrument integration
2-amino-4,6-Dinitrotoluene	35572-78-2	1	9.16	Poor instrument integration
4-amino-2,6-Dinitrotoluene	19406-51-0	1	9.59	Poor instrument integration
3,4-Dinitrotoluene	610-39-9	1	9.97	Poor instrument integration
2,4-Dinitrotoluene	121-14-2	1	10.60	Poor instrument integration
2,6-Dinitrotoluene	606-20-2	1	11.06	Poor instrument integration
o-Nitrotoluene	88-72-2	2	13.66	Poor instrument integration
p-Nitrotoluene	99-99-0	2	14.06	Poor instrument integration
m-Nitrotoluene	99-08-1	2	14.65	Poor instrument integration
PETN	78-11-5	2	16.14	Poor instrument integration

Manual Integrations APPROVED (compounds with "m" flag)

(b) (6)

Quantitation Report (QT Reviewed)

Signal #1 : P:\DATA\0118BPL\PP381206.D\dad1B.ch Vial: 7
Signal #2 : P:\DATA\0118BPL\PP381206.D\dad1A.ch
Acq On : 18-Jan-2017, 10:00:13 Operator: kismetl
Sample : icc2066-500 Inst : G1315B
Misc : OP63244,GPP2066,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jan 18 10:25:34 2017 Quant Results File: 8330-1003BPLUS.RES

Quant Method : C:\MSDCHEM\2...\8330-1003BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330A.8330B,8332
Last Update : Wed Jan 18 10:25:11 2017
Response via : Initial Calibration
DataAcq Meth : 8330BPL.M

Volume Inj. : 100ul
Signal #1 Phase : Extend C-18 Signal #2 Phase: Extend C-18
Signal #1 Info : DAD 254/270nm Signal #2 Info : DAD 214/235nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
15) S	3,4-Dinitrotolue	9.96	9.96	987452	1842385	477.512	472.559
	Spiked Amount 500.000	Range 70 - 136		Recovery =		95.50%	94.51%
	Target Compounds						
1)	TNX	1.16	1.17	1514930	2249444	489.433m	455.832
2)	HMX	1.24	1.25	832707	2458633	518.797m	560.074
3)	DNX	1.49	1.49	1399456	2355711	482.997	492.881
4)	MNX	1.98	1.98	1141228	1780986	503.019	503.450
5)	RDX	2.50	2.50	894075	1420515	487.211	489.526
6)	1,3,5-Trinitrobe	4.05	4.05	2043646	3918062	546.444	540.729
7)	1,3-Dinitrobenze	5.21	5.21	2540149	1730689	500.099	508.138m
8)	3,5-Dinitroanili	5.56	5.56	2203649	3713032	491.990	492.217
9)	Nitrobenzene	6.78	6.77	1484626	1490875	493.108	529.862m
10)	Nitroglycerin	0.00	8.15	0	3265009	N.D.	2255.004m#
11)	Tetryl	8.42	8.42	971065	1499768	504.246m	579.968
12)	2,4,6-Trinitroto	8.83	8.83	1443366	1968404	418.597m	456.225
13)	2-Amino-4,6-Dini	9.15	9.15	1567094	2470570	499.540m	502.114
14)	4-Amino-2,6-Dini	9.59	9.59	1110155	2419671	481.799	504.631
16)	2,4-Dinitrotolue	10.60	10.60	2277260	1465984	497.974	492.879
17)	2,6-Dinitrotolue	11.06	11.06	1279431	1539372	510.948	500.175
18)	o-Nitrotoluene	13.66	13.65	1107342	1540591	513.538	503.215m
19)	p-Nitrotoluene	14.05	14.05	1716401	1419126	506.017	494.578m
20)	m-Nitrotoluene	14.65	14.65	1632947	1964654	515.312m	514.621m
21)	PETN	0.00	16.14	0	3601237	N.D. d	2468.989m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
PP381206.D 8330-0118BPLUS.M Thu Jan 19 06:40:07 2017 Page 1

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7.6.15

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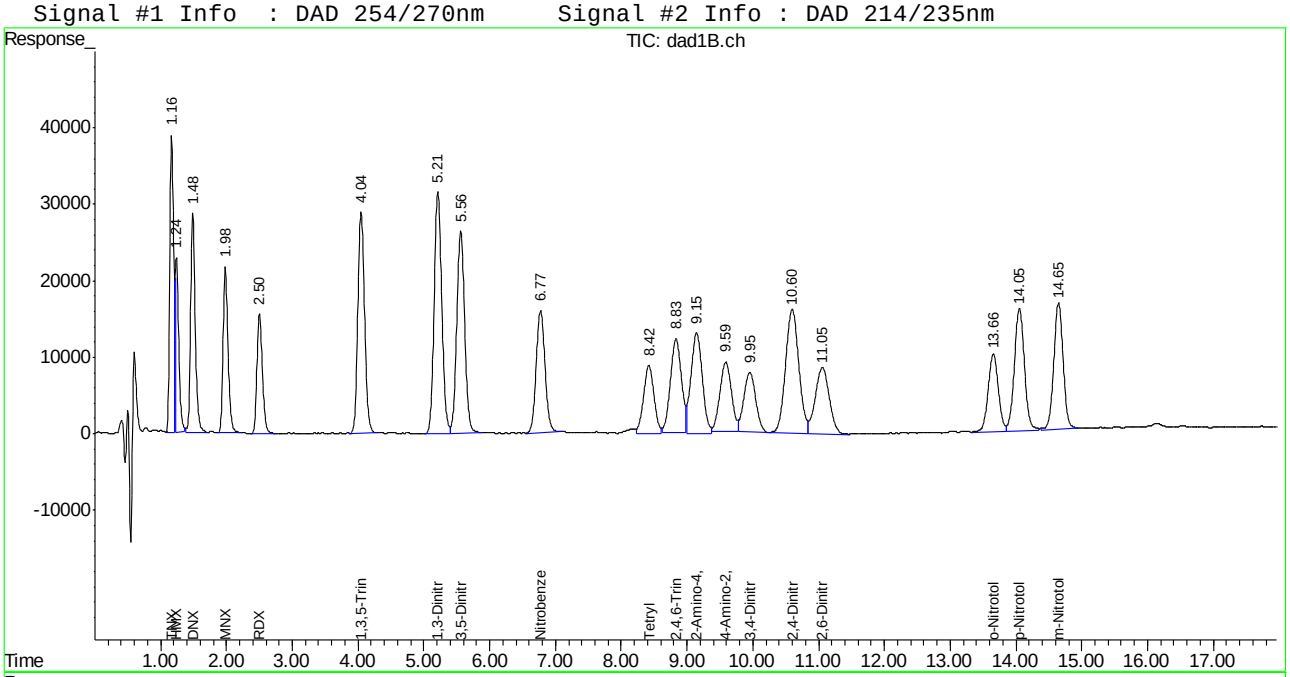
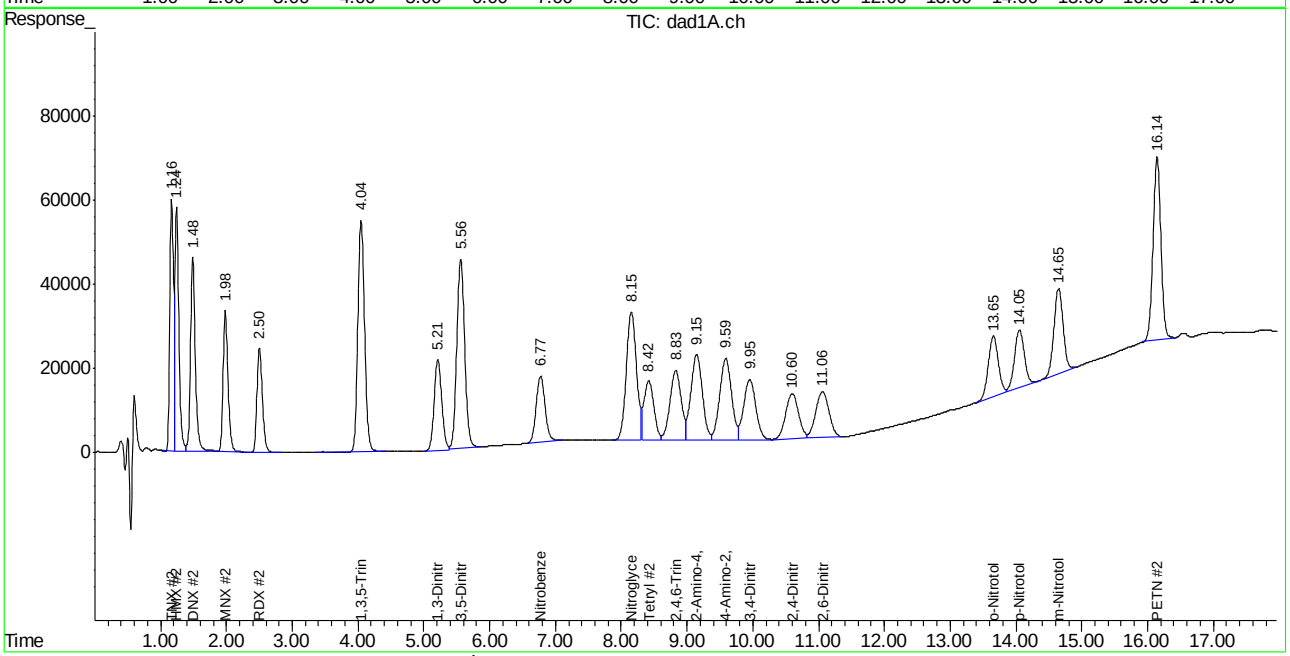
Quantitation Report (QT Reviewed)

Signal #1 : P:\DATA\0118BPL\PP381206.D\dad1B.ch Vial: 7
Signal #2 : P:\DATA\0118BPL\PP381206.D\dad1A.ch
Acq On : 18-Jan-2017, 10:00:13 Operator: kismetl
Sample : icc2066-500 Inst : G1315B
Misc : OP63244,GPP2066,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jan 18 10:46 2017 Quant Results File: 8330-1003BPLUS.RES

Quant Method : C:\MSDCHEM\2...\8330-1003BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330A.8330B,8332
Last Update : Wed Jan 18 10:25:11 2017
Response via : Multiple Level Calibration
DataAcq Meth : 8330BPL.M

Volume Inj. : 100ul
Signal #1 Phase : Extend C-18 Signal #2 Phase: Extend C-18
Signal #1 Info : DAD 254/270nm Signal #2 Info : DAD 214/235nm





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Manual Integration Approval Summary

Sample Number: GPP2066-ICC2066 **Method:** SW846 8330B
Lab FileID: PP381206.D **Analyst approved:** 01/19/17 13:25 (b) (6)
Injection Time: 01/18/17 10:00 **Supervisor approved:** 01/25/17 16:40 (b) (6)

Parameter	CAS	Sig#	R.T. (min.)	Reason
TNX		1	1.16	Overlapping peak
HMX	2691-41-0	1	1.24	Overlapping peak
1,3-Dinitrobenzene	99-65-0	2	5.21	Poor instrument integration
Nitrobenzene	98-95-3	2	6.77	Poor instrument integration
Nitroglycerine	55-63-0	2	8.15	Poor instrument integration
Tetryl	479-45-8	1	8.42	Poor instrument integration
2,4,6-Trinitrotoluene	118-96-7	1	8.83	Poor instrument integration
2-amino-4,6-Dinitrotoluene	35572-78-2	1	9.15	Poor instrument integration
o-Nitrotoluene	88-72-2	2	13.65	Poor instrument integration
p-Nitrotoluene	99-99-0	2	14.05	Poor instrument integration
m-Nitrotoluene	99-08-1	1	14.65	Poor instrument integration
m-Nitrotoluene	99-08-1	2	14.65	Poor instrument integration
PETN	78-11-5	2	16.14	Poor instrument integration

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Manual Integrations APPROVED (compounds with "m" flag)

(b) (6)

Quantitation Report (QT Reviewed)

Signal #1 : P:\DATA\0118BPL\PP381207.D\dad1B.ch Vial: 8
Signal #2 : P:\DATA\0118BPL\PP381207.D\dad1A.ch
Acq On : 18-Jan-2017, 10:25:10 Operator: kismetl
Sample : ic2066-1000 Inst : G1315B
Misc : OP63244,GPP2066,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jan 18 10:46:43 2017 Quant Results File: 8330-1003BPLUS.RES

Quant Method : C:\MSDCHEM\2...\8330-1003BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330A.8330B,8332
Last Update : Wed Jan 18 10:25:11 2017
Response via : Initial Calibration
DataAcq Meth : 8330BPL.M

Volume Inj. : 100ul
Signal #1 Phase : Extend C-18 Signal #2 Phase: Extend C-18
Signal #1 Info : DAD 254/270nm Signal #2 Info : DAD 214/235nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
15) S	3,4-Dinitrotolue	9.96	9.96	2020981	3561040	977.305	913.382
Spiked Amount	500.000	Range	70 - 136	Recovery	=	195.46%#	182.68%#
	Target Compounds						
1)	TNX	1.17	1.17	3098257	4584708	1000.963	929.056
2)	HMX	1.25	1.25	1663286	4558666	1036.268	1038.460
3)	DNX	1.49	1.49	2678695	4303410	924.503	900.394
4)	MNX	1.99	1.99	2228330	3411925	982.182	964.484
5)	RDX	2.51	2.51	1717948	2726219	936.167	939.487
6)	1,3,5-Trinitrobe	4.05	4.05	3950719	7571196	1056.370	1044.896
7)	1,3-Dinitrobenze	5.21	5.21	4915197	3289021	967.694	965.672
8)	3,5-Dinitroanili	5.56	5.56	4247702	7214449	948.349	956.381
9)	Nitrobenzene	6.77	6.77	2917305	2923321	968.962	1038.958
10)	Nitroglycerin	0.00	8.16	0	6295197	N.D.	4347.827 #
11)	Tetryl	8.43	8.43	1974707	2877536	1025.409	1112.757
12)	2,4,6-Trinitroto	8.84	8.83	2804306	3775336	813.289	875.025
13)	2-Amino-4,6-Dini	9.15	9.15	3092968	4763542	985.940	968.133
14)	4-Amino-2,6-Dini	9.59	9.59	2283112	4682351	990.853	976.520
16)	2,4-Dinitrotolue	10.60	10.60	4453852	2874349	973.935	966.386
17)	2,6-Dinitrotolue	11.06	11.06	2513614	3085158	1003.825	971.262
18)	o-Nitrotoluene	13.65	13.65	2116758	2939219	981.663	960.060m
19)	p-Nitrotoluene	14.05	14.05	3295477	2793912	971.550	973.702m
20)	m-Nitrotoluene	14.64	14.64	3205258	3802661	1011.490	996.067m
21)	PETN	0.00	16.14	0	6887861	N.D. d	4722.281m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
PP381207.D 8330-0118BPLUS.M Thu Jan 19 06:40:08 2017 Page 1

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7.6.16

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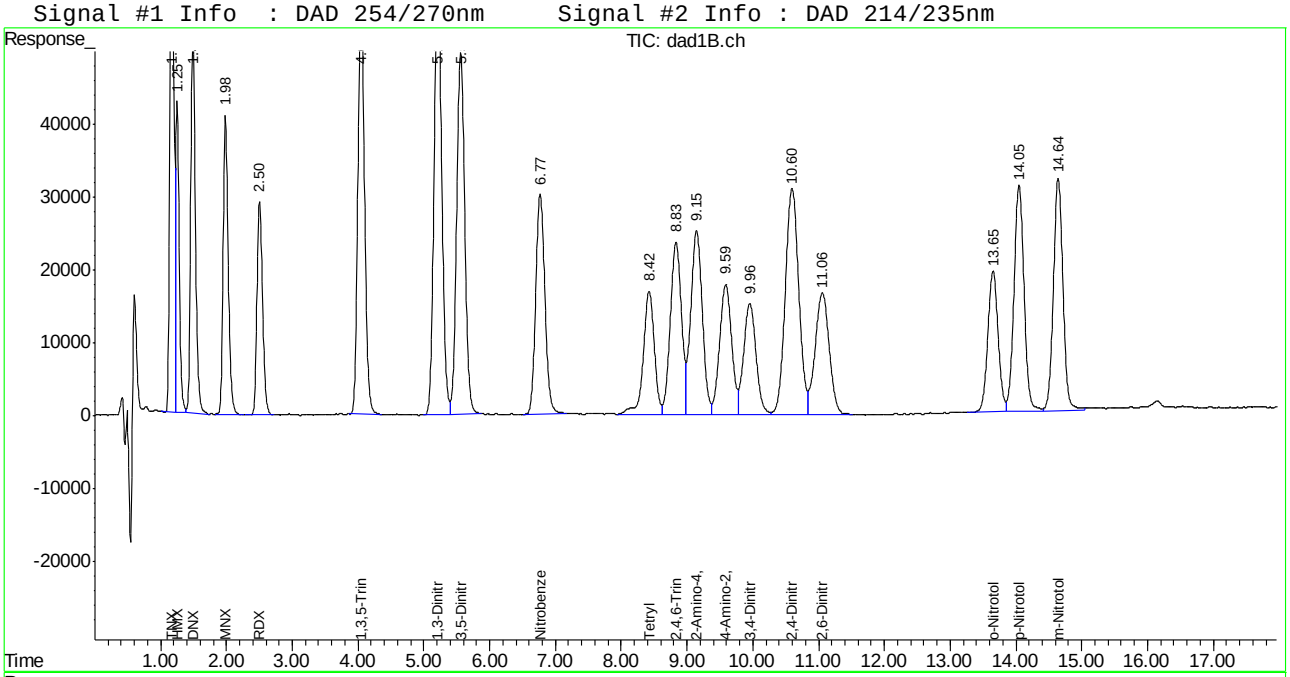
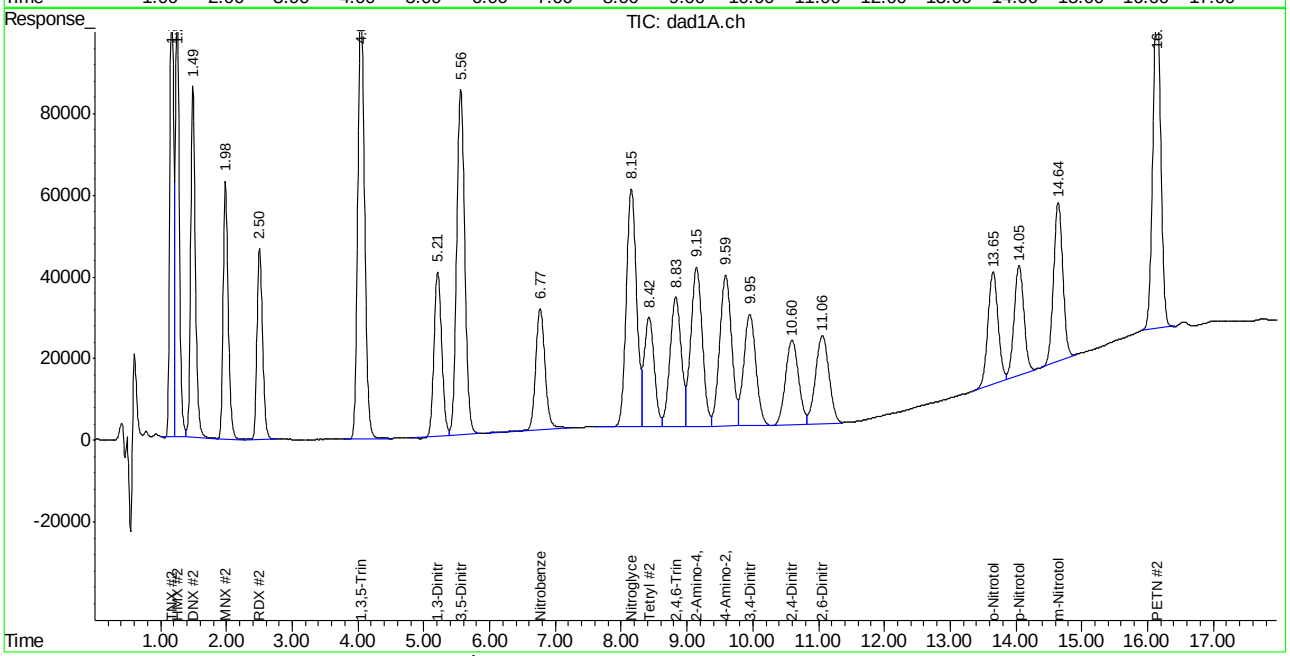
Quantitation Report (QT Reviewed)

Signal #1 : P:\DATA\0118BPL\PP381207.D\dad1B.ch Vial: 8
Signal #2 : P:\DATA\0118BPL\PP381207.D\dad1A.ch
Acq On : 18-Jan-2017, 10:25:10 Operator: kismetl
Sample : ic2066-1000 Inst : G1315B
Misc : OP63244,GPP2066,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jan 18 10:48 2017 Quant Results File: 8330-1003BPLUS.RES

Quant Method : C:\MSDCHEM\2...\8330-1003BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330A.8330B,8332
Last Update : Wed Jan 18 10:25:11 2017
Response via : Multiple Level Calibration
DataAcq Meth : 8330BPL.M

Volume Inj. : 100ul
Signal #1 Phase : Extend C-18 Signal #2 Phase: Extend C-18
Signal #1 Info : DAD 254/270nm Signal #2 Info : DAD 214/235nm





7.6.16
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Manual Integration Approval Summary

Sample Number: GPP2066-IC2066
Lab FileID: PP381207.D
Injection Time: 01/18/17 10:25
Method: SW846 8330B
Analyst approved: 01/19/17 13:25 (b) (6)
Supervisor approved: 01/25/17 16:40 (b) (6)

Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Nitrotoluene	88-72-2	2	13.65	Poor instrument integration
p-Nitrotoluene	99-99-0	2	14.05	Poor instrument integration
m-Nitrotoluene	99-08-1	2	14.64	Poor instrument integration
PETN	78-11-5	2	16.14	Poor instrument integration

SGS ACCUTEST FA41143

PP381208.D

Manual Integrations APPROVED (compounds with "m" flag)

(b) (6)

Quantitation Report (QT Reviewed)

Signal #1 : P:\DATA\0118BPL\PP381208.D\dad1B.ch Vial: 9
Signal #2 : P:\DATA\0118BPL\PP381208.D\dad1A.ch
Acq On : 18-Jan-2017, 10:50:08 Operator: kismetl
Sample : ic2066-2000 Inst : G1315B
Misc : OP63244,GPP2066,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jan 18 11:16:54 2017 Quant Results File: 8330-1003BPLUS.RES

Quant Method : C:\MSDCHEM\2...\8330-1003BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330A.8330B,8332
Last Update : Wed Jan 18 10:25:11 2017
Response via : Initial Calibration
DataAcq Meth : 8330BPL.M

Volume Inj. : 100ul
Signal #1 Phase : Extend C-18 Signal #2 Phase: Extend C-18
Signal #1 Info : DAD 254/270nm Signal #2 Info : DAD 214/235nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
15) S	3,4-Dinitrotolue	9.94	9.94	4188622	7412191	2025.531	1901.176
Spiked Amount	500.000	Range	70 - 136	Recovery	=	405.11%#	380.24%#
	Target Compounds						
1)	TNX	1.16	1.16	5964629	8919540	1927.011m	1807.476m
2)	HMX	1.25	1.26	3406264	9141783	2122.186m	2082.489m
3)	DNX	1.48	1.48	5550963	8790549	1915.815m	1839.230m
4)	MNX	1.98	1.98	4586501	7069338	2021.594	1998.363
5)	RDX	2.49	2.49	3569182	5681944	1944.966	1958.065
6)	1,3,5-Trinitrobe	4.04	4.04	8230415	15750484	2200.703	2173.715
7)	1,3-Dinitrobenze	5.20	5.20	10223445	6824191	2012.771	2003.614
8)	3,5-Dinitroanili	5.54	5.54	8879954	15043608	1982.553	1994.251
9)	Nitrobenzene	6.75	6.75	6031858	5963383	2003.438	2119.406
10)	Nitroglycerin	0.00	8.14	0	13186524	N.D.	9107.375 #
11)	Tetryl	8.41	8.41	4081911	5921632	2119.619	2289.924
12)	2,4,6-Trinitroto	8.82	8.82	5854655	7854738	1697.934	1820.524
13)	2-Amino-4,6-Dini	9.12	9.12	6400479	9873137	2040.270	2006.598
14)	4-Amino-2,6-Dini	9.57	9.57	4711633	9714281	2044.812	2025.946
16)	2,4-Dinitrotolue	10.58	10.58	9255446	6049977	2023.912	2034.065
17)	2,6-Dinitrotolue	11.04	11.04	5184569	6641553	2070.486	1962.476
18)	o-Nitrotoluene	13.64	13.64	4336279	6235481	2010.984	2036.743m
19)	p-Nitrotoluene	14.03	14.03	6784984	5908043	2000.302	2059.004m
20)	m-Nitrotoluene	14.63	14.63	6625239	8042759	2090.740	2106.716m
21)	PETN	0.00	16.14	0	14292982	N.D. d	9799.193m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
PP381208.D 8330-0118BPLUS.M Thu Jan 19 06:53:26 2017 Page 1

7.6.17

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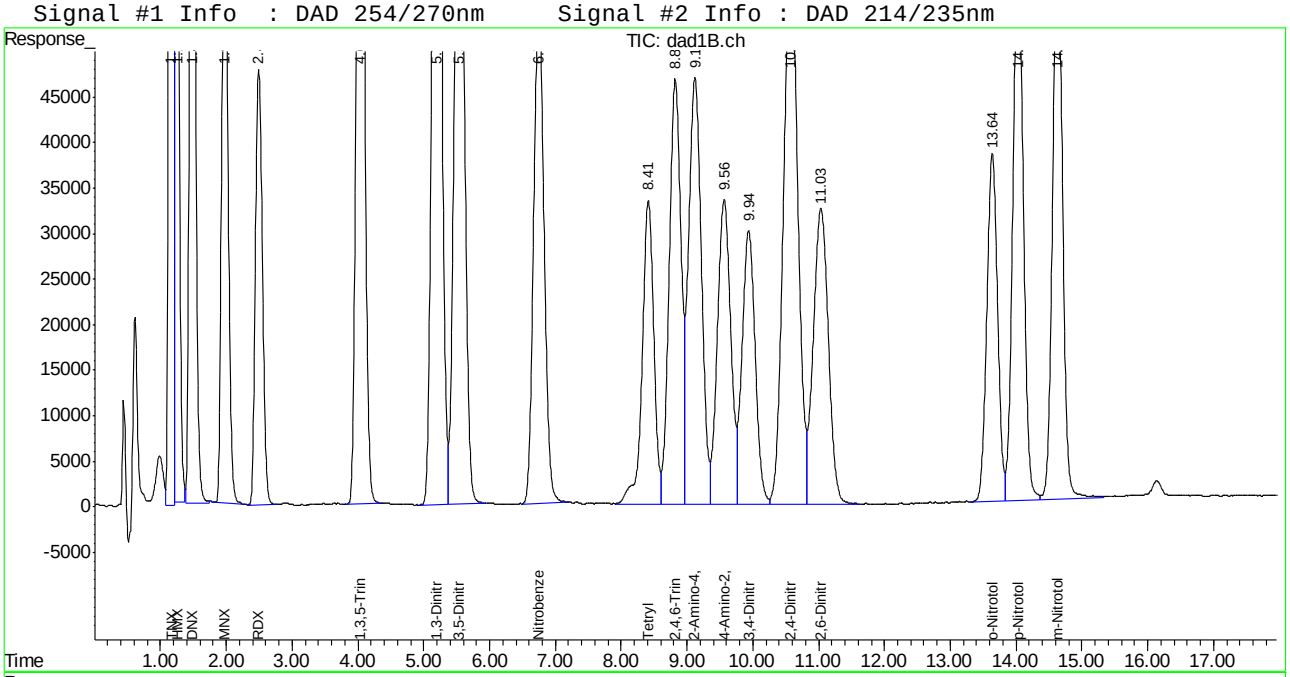
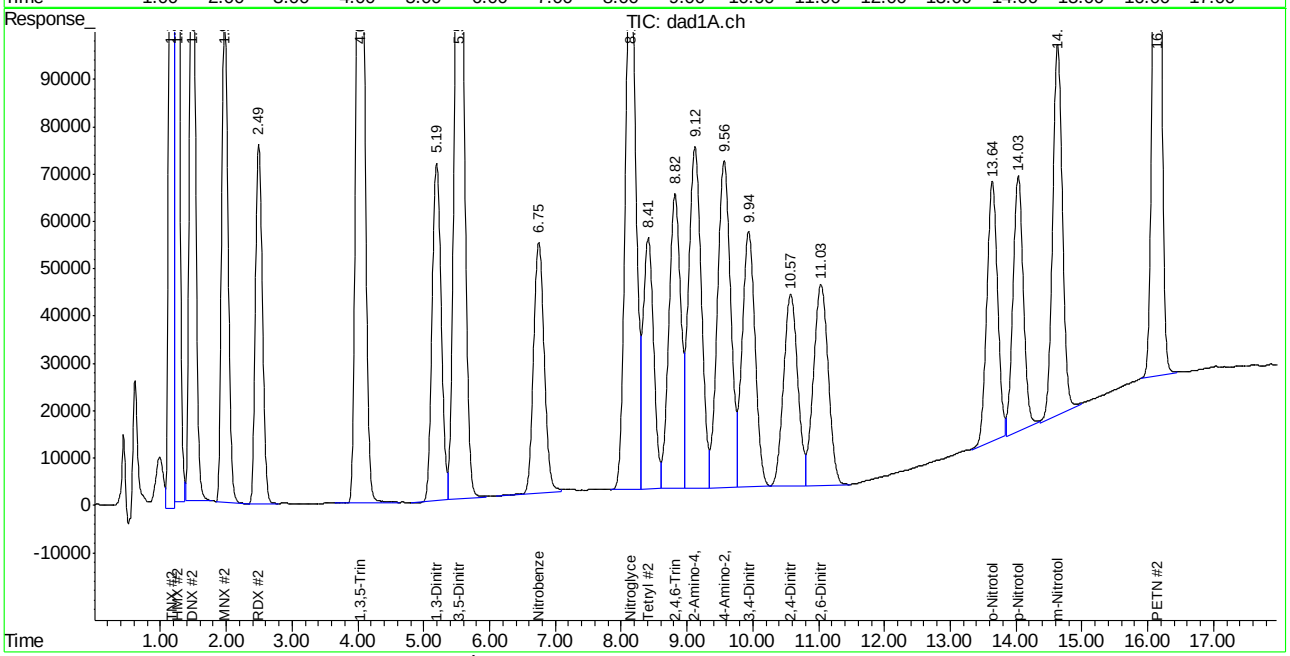
Quantitation Report (QT Reviewed)

Signal #1 : P:\DATA\0118BPL\PP381208.D\dad1B.ch Vial: 9
Signal #2 : P:\DATA\0118BPL\PP381208.D\dad1A.ch
Acq On : 18-Jan-2017, 10:50:08 Operator: kismetl
Sample : ic2066-2000 Inst : G1315B
Misc : OP63244,GPP2066,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jan 19 6:48 2017 Quant Results File: 8330-1003BPLUS.RES

Quant Method : C:\MSDCHEM\2...\8330-1003BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330A.8330B,8332
Last Update : Wed Jan 18 10:25:11 2017
Response via : Multiple Level Calibration
DataAcq Meth : 8330BPL.M

Volume Inj. : 100ul
Signal #1 Phase : Extend C-18 Signal #2 Phase: Extend C-18
Signal #1 Info : DAD 254/270nm Signal #2 Info : DAD 214/235nm





SGS ACCUTEST FA41143

Manual Integration Approval Summary

Sample Number: GPP2066-IC2066 **Method:** SW846 8330B
Lab FileID: PP381208.D **Analyst approved:** 01/19/17 13:25 (b) (6)
Injection Time: 01/18/17 10:50 **Supervisor approved:** 01/25/17 16:40 (b) (6)

Parameter	CAS	Sig#	R.T. (min.)	Reason
TNX		1	1.16	Poor instrument integration
TNX		2	1.16	Poor instrument integration
HMX	2691-41-0	1	1.25	Poor instrument integration
HMX	2691-41-0	2	1.26	Poor instrument integration
DNX		1	1.48	Poor instrument integration
DNX		2	1.48	Poor instrument integration
o-Nitrotoluene	88-72-2	2	13.64	Poor instrument integration
p-Nitrotoluene	99-99-0	2	14.03	Poor instrument integration
m-Nitrotoluene	99-08-1	2	14.63	Poor instrument integration
PETN	78-11-5	2	16.14	Poor instrument integration

SGS ACCUTEST FA41143

Manual Integrations APPROVED

(b) (6)

Quantitation Report (QT Reviewed)

Signal #1 : P:\DATA\0118BPL\PP381209.D\dad1B.ch Vial: 10
Signal #2 : P:\DATA\0118BPL\PP381209.D\dad1A.ch
Acq On : 18-Jan-2017, 11:26:25 Operator: kismetl
Sample : icv2066-500 Inst : G1315B
Misc : OP63244,GPP2066,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jan 19 08:06:36 2017 Quant Results File: 8330-0118BPLUS.RES

Quant Method : C:\MSDCHEM\2...\8330-0118BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330A.8330B,8332
Last Update : Thu Jan 19 06:49:11 2017
Response via : Initial Calibration
DataAcq Meth : 8330BPL.M

Volume Inj. : 100ul
Signal #1 Phase : Extend C-18 Signal #2 Phase: Extend C-18
Signal #1 Info : DAD 254/270nm Signal #2 Info : DAD 214/235nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
15) S	3,4-Dinitrotolue	0.00	0.00	0	0	N.D.	N.D.
Spiked Amount	500.000	Range	70 - 136	Recovery	=	0.00%#	0.00%#
	Target Compounds						
1)	TNX	1.16	1.16	1555353	2235248	527.933	523.061
2)	HMX	1.24	1.24	931370	2650951	565.139	553.128
3)	DNX	1.49	1.48	1379947	2268496	509.255	501.805
4)	MNX	1.98	1.98	1151652	1780124	492.591	505.165
5)	RDX	2.50	2.50	934936	1496699	513.081	501.413
6)	1,3,5-Trinitrobe	4.04	4.04	2062043	3919080	506.306	504.165
7)	1,3-Dinitrobenze	5.21	5.21	2531317	1654348	500.118	487.765
8)	3,5-Dinitroanili	5.56	5.56	2046292	3479170	454.560	457.607
9)	Nitrobenzene	6.77	6.77	1587959	1572517	520.071	520.766
10)	Nitroglycerin	0.00	8.15	0	3316751	N.D.	2468.478 #
11)	Tetryl	8.42	8.42	879636	1268636	453.819m	401.246
12)	2,4,6-Trinitroto	8.82	8.82	1264926	1816454	452.135m	461.904
13)	2-Amino-4,6-Dini	9.14	9.15	1701596	2707279	550.614m	531.925
14)	4-Amino-2,6-Dini	9.59	9.59	1255275	2638376	536.077m	521.982
16)	2,4-Dinitrotolue	10.60	10.60	2412678	1536508	522.111	515.456
17)	2,6-Dinitrotolue	11.05	11.06	1401484	1679174	529.283	560.739
18)	o-Nitrotoluene	13.65	13.65	1175746	1667725	530.446	540.645m
19)	p-Nitrotoluene	14.05	14.04	1778932	1556422	519.093	544.654m
20)	m-Nitrotoluene	14.64	14.64	1662889	2009665	501.639	516.969m
21)	PETN	0.00	16.14	0	3706453	N.D. d	2498.033m

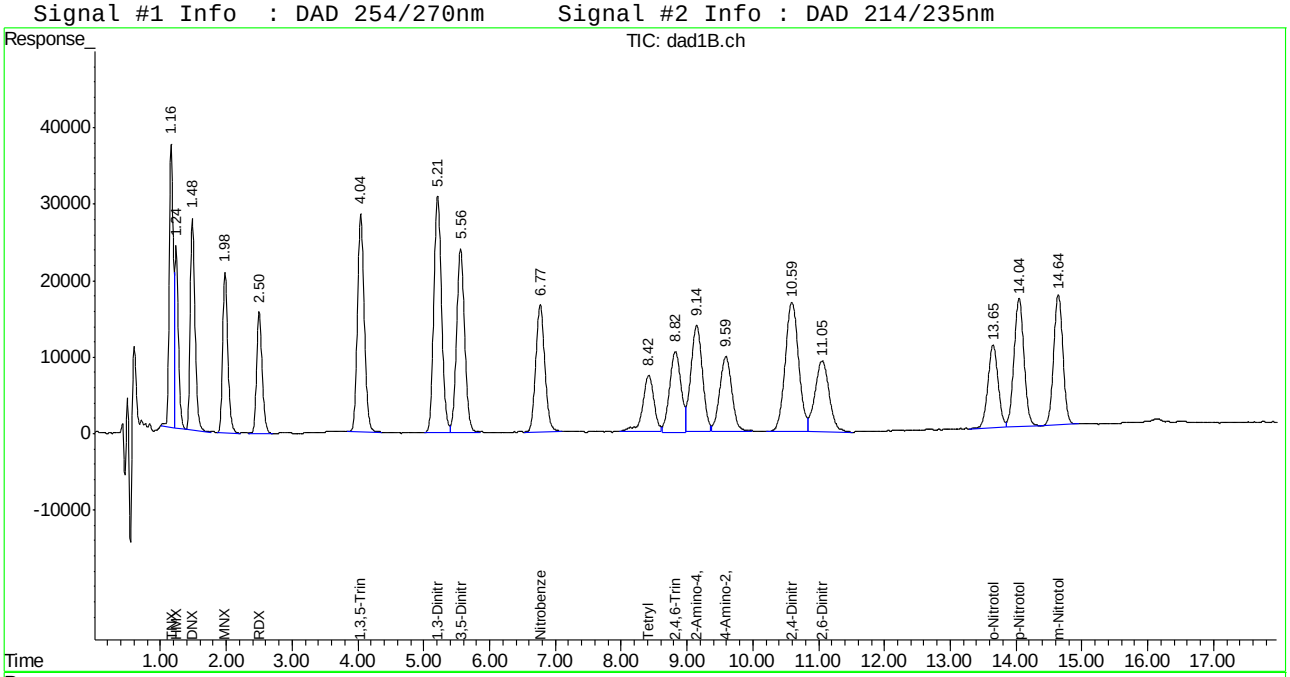
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
PP381209.D 8330-0118BPLUS.M Thu Jan 19 12:17:10 2017 Page 1

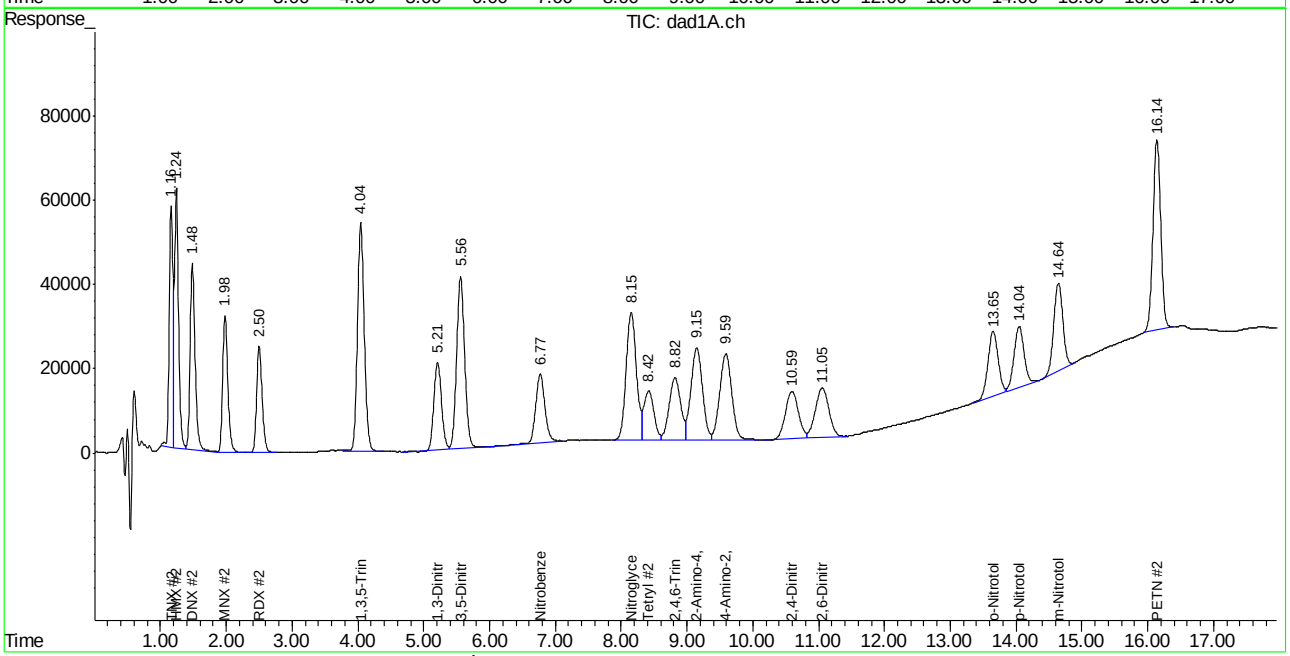
Quantitation Report (QT Reviewed)

Signal #1 : P:\DATA\0118BPL\PP381209.D\dad1B.ch Vial: 10
Signal #2 : P:\DATA\0118BPL\PP381209.D\dad1A.ch
Acq On : 18-Jan-2017, 11:26:25 Operator: kismetl
Sample : icv2066-500 Inst : G1315B
Misc : OP63244,GPP2066,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Jan 19 8:08 2017 Quant Results File: 8330-0118BPLUS.RES

Quant Method : C:\MSDCHEM\2...\8330-0118BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330A.8330B,8332
Last Update : Thu Jan 19 06:49:11 2017
Response via : Multiple Level Calibration
DataAcq Meth : 8330BPL.M

Volume Inj. : 100ul
Signal #1 Phase : Extend C-18 Signal #2 Phase: Extend C-18
Signal #1 Info : DAD 254/270nm Signal #2 Info : DAD 214/235nm





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Manual Integration Approval Summary

Sample Number: GPP2066-ICV2066 **Method:** SW846 8330B
Lab FileID: PP381209.D **Analyst approved:** 01/19/17 13:25 (b) (6)
Injection Time: 01/18/17 11:26 **Supervisor approved:** 01/25/17 16:40 (b) (6)

Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetryl	479-45-8	1	8.42	Poor instrument integration
2,4,6-Trinitrotoluene	118-96-7	1	8.82	Poor instrument integration
2-amino-4,6-Dinitrotoluene	35572-78-2	1	9.14	Poor instrument integration
4-amino-2,6-Dinitrotoluene	19406-51-0	1	9.59	Poor instrument integration
o-Nitrotoluene	88-72-2	2	13.65	Poor instrument integration
p-Nitrotoluene	99-99-0	2	14.04	Poor instrument integration
m-Nitrotoluene	99-08-1	2	14.64	Poor instrument integration
PETN	78-11-5	2	16.14	Poor instrument integration

SGS ACCUTEST FA41143

Manual Integrations APPROVED (compounds with "m" flag)
(b) (6)

Quantitation Report (QT Reviewed)

Signal #1 : P:\DATA\0220BPL\PP381324.D\dad1B.ch Vial: 2
Signal #2 : P:\DATA\0220BPL\PP381324.D\dad1A.ch
Acq On : 20-Feb-2017, 10:01:34 Operator: evitam
Sample : cc2066-1000 Inst : G1315B
Misc : OP63863,GPP2072,2.00,,,20,,soil Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 20 10:24:56 2017 Quant Results File: 8330-0118BPLUS.RES

Quant Method : C:\MSDCHEM\2...\8330-0118BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330A.8330B,8332
Last Update : Thu Jan 19 13:42:44 2017
Response via : Initial Calibration
DataAcq Meth : 8330BPL.M

Volume Inj. : 100ul
Signal #1 Phase : Extend C-18 Signal #2 Phase: Extend C-18
Signal #1 Info : DAD 254/270nm Signal #2 Info : DAD 214/235nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
15) S	3,4-Dinitrotolue	10.03	10.03	2049590	3719484	989.667	961.237
Spiked Amount	500.000	Range	69 - 134	Recovery	=	197.93%#	192.25%#
	Target Compounds						
1)	TNX	1.18	1.18	3027596	4359938	1027.657m	1020.251m
2)	HMX	1.26	1.27	1578885	4449704	958.041	928.443
3)	DNX	1.50	1.50	2626560	4255338	962.723	950.295
4)	MNX	2.01	2.01	2217646	3419980	948.544	970.525
5)	RDX	2.54	2.54	1716914	2753807	942.222	922.560
6)	1,3,5-Trinitrobe	4.09	4.09	3930536	7601895	965.089	977.936
7)	1,3-Dinitrobenze	5.25	5.25	4961076	3210734	980.171	946.647
8)	3,5-Dinitroanili	5.61	5.61	4296492	7234032	954.415	951.474
9)	Nitrobenzene	6.78	6.78	2899728	2930403	949.687	970.454
10)	Nitroglycerin	0.00	8.29	0	6401881	N.D. d	4764.573
11)	Tetryl	8.55	8.54	1752319	2616155	890.715	827.441
12)	2,4,6-Trinitroto	8.93	8.92	2772085	3750253	975.945	953.647
13)	2-Amino-4,6-Dini	9.24	9.24	3126416	4808740	1011.667	944.820
14)	4-Amino-2,6-Dini	9.67	9.67	2283272	4697367	975.094	929.337
16)	2,4-Dinitrotolue	10.68	10.68	4484253	2867821	970.406	962.074
17)	2,6-Dinitrotolue	11.14	11.14	2543722	3138186	960.659	1013.241
18)	o-Nitrotoluene	13.67	13.67	2104354	3047955	949.394	988.090m
19)	p-Nitrotoluene	14.07	14.07	3278222	2850275	956.586	997.425m
20)	m-Nitrotoluene	14.66	14.66	3197456	3841463	964.567	988.184m
21)	PETN	0.00	16.28	0	7024829	N.D. d	4734.515m

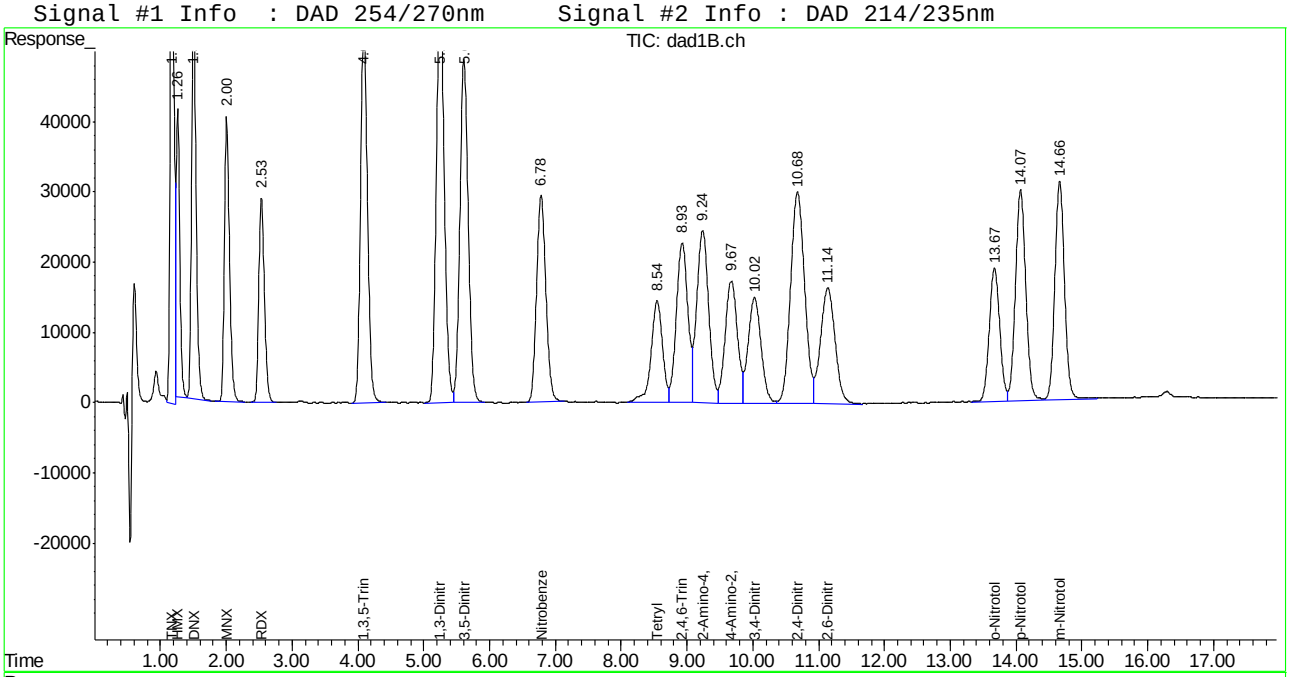
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
PP381324.D 8330-0118BPLUS.M Tue Feb 21 09:18:15 2017 Page 1

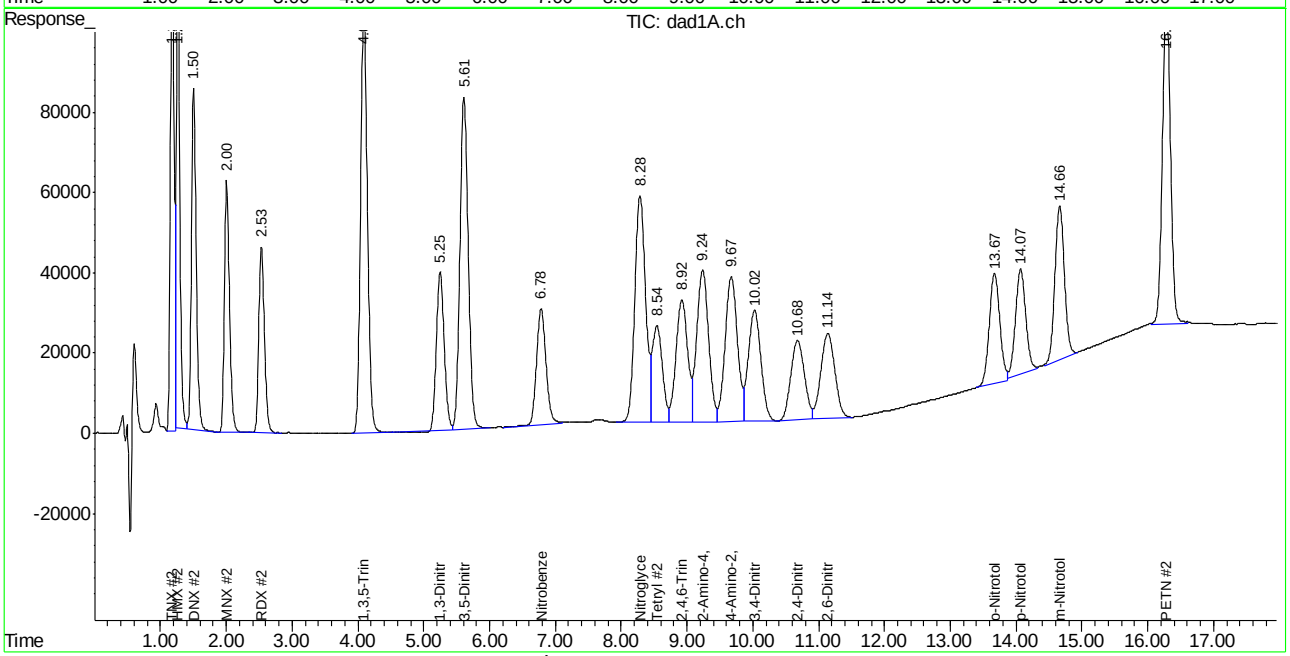
Quantitation Report (QT Reviewed)

Signal #1 : P:\DATA\0220BPL\PP381324.D\dad1B.ch Vial: 2
Signal #2 : P:\DATA\0220BPL\PP381324.D\dad1A.ch
Acq On : 20-Feb-2017, 10:01:34 Operator: evitam
Sample : cc2066-1000 Inst : G1315B
Misc : OP63863,GPP2072,2.00,,,20,,soil Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 20 10:26 2017 Quant Results File: 8330-0118BPLUS.RES

Quant Method : C:\MSDCHEM\2...\8330-0118BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330A.8330B,8332
Last Update : Thu Jan 19 13:42:44 2017
Response via : Multiple Level Calibration
DataAcq Meth : 8330BPL.M

Volume Inj. : 100ul
Signal #1 Phase : Extend C-18 Signal #2 Phase: Extend C-18
Signal #1 Info : DAD 254/270nm Signal #2 Info : DAD 214/235nm





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ACCUTEST
FA41143

Manual Integration Approval Summary

Sample Number: GPP2072-CC2066 **Method:** SW846 8330A
Lab FileID: PP381324.D **Analyst approved:** 02/21/17 09:27 (b) (6)
Injection Time: 02/20/17 10:01 **Supervisor approved:** 02/23/17 17:37 (b) (6)

Parameter	CAS	Sig#	R.T. (min.)	Reason
TNX		1	1.18	Poorly defined baseline
TNX		2	1.18	Poorly defined baseline
o-Nitrotoluene	88-72-2	2	13.67	Poorly defined baseline
p-Nitrotoluene	99-99-0	2	14.07	Poorly defined baseline
m-Nitrotoluene	99-08-1	2	14.66	Poorly defined baseline
PETN	78-11-5	2	16.28	Poorly defined baseline

SGS ACCUTEST FA41143

Manual Integrations APPROVED (compounds with "m" flag)

(b) (6)

Quantitation Report (QT Reviewed)

Signal #1 : P:\DATA\0220BPL\PP381335.D\dad1B.ch Vial: 2
Signal #2 : P:\DATA\0220BPL\PP381335.D\dad1A.ch
Acq On : 20-Feb-2017, 14:35:59 Operator: evitam
Sample : ecc2066-1000 Inst : G1315B
Misc : OP63860,GPP2072,10.0,,,50,,soil Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 20 14:54:15 2017 Quant Results File: 8330-0118BPLUS.RES

Quant Method : C:\MSDCHEM\2...\8330-0118BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330A.8330B,8332
Last Update : Thu Jan 19 13:42:44 2017
Response via : Initial Calibration
DataAcq Meth : 8330BPL.M

Volume Inj. : 100ul
Signal #1 Phase : Extend C-18 Signal #2 Phase: Extend C-18
Signal #1 Info : DAD 254/270nm Signal #2 Info : DAD 214/235nm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
15) S	3,4-Dinitrotolue	10.00	10.00	2021864	3701676	976.279	956.635
Spiked Amount	500.000	Range	69 - 134	Recovery	=	195.26%#	191.33%#
	Target Compounds						
1)	TNX	1.18	1.18	2921083	4309707	991.503	1008.497
2)	HMX	1.26	1.26	1569140	4386744	952.128	915.306
3)	DNX	1.50	1.50	2606945	4182108	955.635	933.610
4)	MNX	2.00	2.00	2201938	3417835	941.825	969.916
5)	RDX	2.52	2.52	1718681	2741583	943.191	918.465
6)	1,3,5-Trinitrobe	4.08	4.08	3904821	7574691	958.775	974.437
7)	1,3-Dinitrobenze	5.23	5.23	4955123	3300298	978.995	973.054
8)	3,5-Dinitroanili	5.58	5.58	4305024	7218977	956.310	949.494
9)	Nitrobenzene	6.77	6.77	2927057	2790991	958.637	924.285
10)	Nitroglycerin	0.00	8.27	0	6410225	N.D. d	4770.783
11)	Tetryl	8.52	8.51	1751662	2569237	890.391	812.602
12)	2,4,6-Trinitroto	8.90	8.90	2757561	3740342	970.971	951.127
13)	2-Amino-4,6-Dini	9.20	9.20	3112853	4814925	1007.278	946.035
14)	4-Amino-2,6-Dini	9.63	9.63	2262913	4695476	966.399	928.962
16)	2,4-Dinitrotolue	10.65	10.65	4444982	2873016	961.908	963.817
17)	2,6-Dinitrotolue	11.11	11.11	2491654	3095810	940.995	1000.493
18)	o-Nitrotoluene	13.66	13.65	2081557	2984506	939.109	967.521m
19)	p-Nitrotoluene	14.05	14.05	3244302	2727919	946.688	954.607
20)	m-Nitrotoluene	14.65	14.65	3141426	4016466	947.664	1033.202
21)	PETN	0.00	16.29	0	6851398	N.D. d	4617.628m

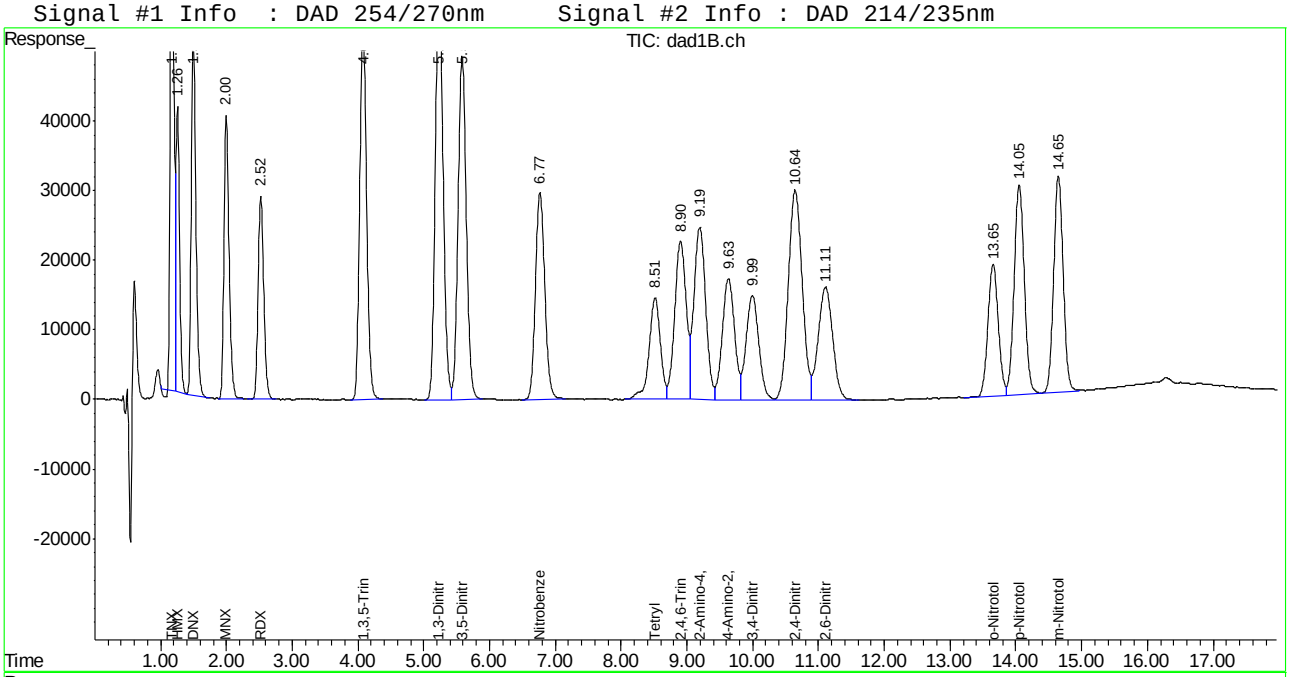
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
PP381335.D 8330-0118BPLUS.M Tue Feb 21 09:18:33 2017 Page 1

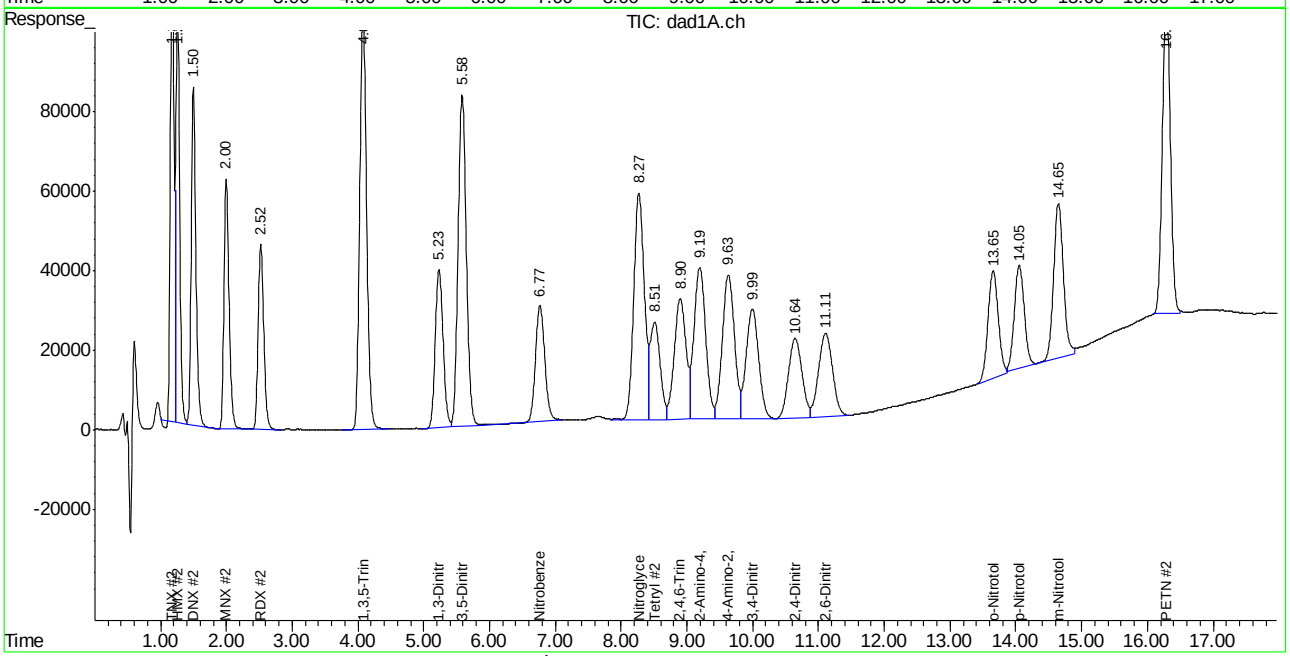
Quantitation Report (QT Reviewed)

Signal #1 : P:\DATA\0220BPL\PP381335.D\dad1B.ch Vial: 2
Signal #2 : P:\DATA\0220BPL\PP381335.D\dad1A.ch
Acq On : 20-Feb-2017, 14:35:59 Operator: evitam
Sample : ecc2066-1000 Inst : G1315B
Misc : OP63860,GPP2072,10.0,,,50,,soil Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Feb 21 9:17 2017 Quant Results File: 8330-0118BPLUS.RES

Quant Method : C:\MSDCHEM\2...\8330-0118BPLUS.M (Chemstation Integrator)
Title : Explosives by 8330A.8330B,8332
Last Update : Thu Jan 19 13:42:44 2017
Response via : Multiple Level Calibration
DataAcq Meth : 8330BPL.M

Volume Inj. : 100ul
Signal #1 Phase : Extend C-18 Signal #2 Phase: Extend C-18
Signal #1 Info : DAD 254/270nm Signal #2 Info : DAD 214/235nm





SGS ACCUTEST FA41143

Manual Integration Approval Summary

Sample Number: GPP2072-ECC2066 **Method:** SW846 8330B
Lab FileID: PP381335.D **Analyst approved:** 02/21/17 09:27 (b) (6)
Injection Time: 02/20/17 14:35 **Supervisor approved:** 02/23/17 17:37 (b) (6)

Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Nitrotoluene	88-72-2	2	13.65	Poorly defined baseline
PETN	78-11-5	2	16.29	Poorly defined baseline

SGS ACCUTEST-ORLANDO

DATE:	12/30/16
COLUMN TYPE:	Bond MP
AMOUNT INJECTED:	100 ul
INSTRUMENT: HPLC3-GG	

HPLC3-GG ANALYSIS LOG

METHODS:	8330 A/B
ACQ. METHOD:	8330 RPB3
PROC. METHOD:	8330 RPB_1230
CALIB. DATE:	12/30/16
RUN BATCH: GGG	2500

ANALYST:	(b) (6)
ACETONITRILE LOT #:	5217
MEOH LOT #:	165089
HEAD PRESSURE:	283

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
GG 060856	2	CC2495-1000	8330	LCF10	1:1		DNR
GG 57	21	ic2500-20			50+450 50+450	PII smm-2,6,0 p m MP	✓
GG 58	22	IC2500-50			10+390	PII 2,6MPS2 DMPS2 350PS2	✓
GG 59	23	IC 2500-100			25+475	PII	✓
GG 60	24	IC2500-200			50+450	PII m MPS2	✓
GG 61	25	ICC2500-500			1+3	PII	✓
GG 62	26	IC2500-1000			1:1	PII	✓
GG 63	27	IC 2500-2000		↓	1x	PII	✓
GG 64	28	ICV 2500-500			*	PII	246 ↓ 15%, Passes 20%
GG 65	~~29~~ 21	CC2500-20		LCF10	50+450 50+450		fails
GG 66	9	op63222-mb		op63222	1x	PII	ND
GG 67	10	FA39589-1cf					✓ 1,3, NB
GG 68	11	FA39589-2cf					ND 1,3 2,4"
GG 69	12	FA39589-3cf				PII	ND NC 2,4 DNC
GG 70	13	FA39589-4cf					✓
GG 71	14	FA39719-1cf		↓	↓		ND BETN DNC
GG 72	5	FA37707-62BU		op63149	1x	MP	✓
GG 73	6	FA37707-63BU		↓	↓	PII	✓ shifted ! DNReP.
GG 74	7	FA37708-59AU		op63683			
GG 75	8	FA37708-60AU	↓	↓	↓		↓

1/3/17 ICV3AC

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

hplc3_gg_log.xls NF rev. 06/16

Analyst's Signature: [redacted] (b) (6)

SGS ACCUTEST-ORLANDO

DATE:	12/30/16
COLUMN TYPE:	Bowie RP
AMOUNT INJECTED:	100 ul
INSTRUMENT: HPLC3-GG	

HPLC3-GG ANALYSIS LOG

METHODS:	8330 A/B
ACQ. METHOD:	8330 RPB3
PROC. METHOD:	8330 RPB 1230
CALIB. DATE:	12/30/16
RUN BATCH: GGG	2500

ANALYST:	(b) (6)
ACETONITRILE LOT #:	3297
MEOH LOT #:	165089
HEAD PRESSURE:	283

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
GG 060876	2	~~CC2500-1000~~ ~~CC2495-1000~~	8330	LC810	1:1		Pass
GG 77	1	clb		—	—		ND Report
GG 78	15	OP63245-MB		OP63245	1X		ND ~~BAT~~
GG 79	16	LA28935-1cf			1+4	RDX08 1,3,5 MP	1,3,5 NB NC
GG 80	17	LA28935-1cf		↓	10+490	↓ PII	
GG 81	1	solvnt		—	—		ND
GG 82	1	↓		—	—		ND
GG 83	1			—	—		ND
GG 84	1	↓		—	—		ND
GG 85	2	ccc2500-1000	↓	LC810	1:1	OMX-35, P, 4A MP	0,3,5 4A, P flags
GG							
GG							
GG							
GG							
GG							
GG							
GG							
GG							
GG							
GG							

12/13/16

MH 01/03/16 ~~BAT~~ 246 lwl

246 8330B 208

MH 12/03/16

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

hplc3_gg_log.xls NF rev. 06/16

Analyst's Signature: [redacted] (b) (6)

SGS ACCUTEST-ORLANDO

DATE:	2/2/17
COLUMN TYPE:	Bonus RP
AMOUNT INJECTED:	100 ul
INSTRUMENT: HPLC3-GG	

HPLC3-GG ANALYSIS LOG

METHODS:	8330 A1 B
ACQ. METHOD:	8330 RP63
PROC. METHOD:	8330 RP8_1230
CALIB. DATE:	12/20/16
RUN BATCH: GGG	2508

ANALYST:	(6) (a)
ACETONITRILE LOT #:	J237
MEOH LOT #:	166007
HEAD PRESSURE:	373

ecl 2b1/17

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
GG 060985	1	Solvent	8330	—	—		ND
GG 86	2	CC2500-1000		LC816	1:1		pass
GG 87	3	OP63863-MB		OP63863	1X		ND
GG 88	4	F940844-18cf		↓		pii	✓ #16 NO confirm
GG 89	5	OP63860-MB		OP63860			ND
GG 90	6	F940847-18cf		↓		pii	✓ #16 NO confirm
GG 91	7	OP63860 pt1cf		↓	↓	pii no need	✓ #16 NO confirm
GG 92	2	CC 2500-1000	↓	LC816	1:1		Bad injection RE
GG 93	2	CC 2500-1000	↓	↓	↓		pass
GG							
GG							
GG							
GG							
GG							
GG							
GG							
GG							
GG							
GG							
GG							

NA QW

2/2/17

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Ba
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction

[redacted] (6) (g)

SGS ACCUTEST-ORLANDO

HPLC4-PP ANALYSIS LOG

DATE:	01/18/17
EXTRACTION TYPE:	Ext C18
VOLUME INJECTED:	100 ul
INSTRUMENT:	HPLC4-PP

METHODS:	8330 A/B
ACQ. METHOD:	8330 BPL
PROC. METHOD:	8330 BPlus
CALIB. DATE:	01/18/17
RUN BATCH: GPP	2066

ANALYST:	(b) (6)
ACETONITRILE LOT #:	3297
MEOH LOT #:	166459
HEAD PRESSURE:	176

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
PP 35 1200	1	solvent	8330	—	—		ND
PP 01	2	CC2053-1000		LC816	1:1		✓
PP 02	3	ic 2066-20			50+450 50+450	TNXOP HMXMPS1 OPS2 P11 o m pMPS2	✓
PP 03	4	ic2066-50			10+390	HMXTNXOPS1 P11	✓
PP 04	5	ic 2066-100			25+475	↓ P11	✓
PP 05	6	IC 2066-200			50+450	↓ ↓	✓
PP 06	7	ICC2066 500			1+3	↓ ↓	✓
PP 07	8	ic 2066 -1000			1:1	P11	✓
PP 08	9	ic 2066 2000			1x	P11	✓ Pass
PP 09	10	ICV2066-500		ES734 LC764 LC742 ES765	*	P11	Pass
PP 10	3	CC2066-20		LC816	50+450 of 50+450	MP 1,6DNTOPS2 2,6MPS2 OPM PETN MPS	✓ DNT NQT
PP 11	11	op63431-bs		op63431	1x	P11	✓
PP 12	12	op63431-mb					ND
PP 13	13	FA 40279-2				35 MPS1 P11	✓ 26 ff52
PP 14	14	FA 40279-3					✓
PP 15	15	FA 40279-1				HMXOP MNX MPS1 4NDX-35	✓
PP 16	16	op63431-ms				P11	✓
PP 17	17	op63431-msd				P11	✓
PP 18	18	FA40351-1					ND
PP 19	19	FA40351-2	↓	↓	↓	P11 3,5 MPS1	✓ RL (2x)

Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument Integration

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Analyst's Signature: (b) (6)

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* ES734 20 ul
LC742 25 ul
LC764 25 ul
E5765 10 ul
} + 920

55 of 100

SGS ACCUTEST-ORLANDO

DATE:	01 | 18 | 17
COLUMN TYPE:	Ext C18
AMOUNT INJECTED:	100 ul
INSTRUMENT:	HPLC4-PP

HPLC4-PP ANALYSIS LOG

METHODS:	8330A|B
ACQ. METHOD:	8330BPL
PROC. METHOD:	8330BPLus
CALIB. DATE:	01 | 18 | 17
RUN BATCH: GPP	2066

ANALYST:	(b) (6)
ACETONITRILE LOT #:	3277
MEOH LOT #:	166459
HEAD PRESSURE:	176

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
PP 38 1220	20	FA40351-3	8330	OP63431	1X	PII DNMOP 3.5MPSI	✓ MUX
PP 21	2	CC2066-1000	↓	LCS16	1:1	PII	Pass
PP 22	1	CCB		—	—		ND
PP 23	21	FA40279-2		OP63431	1:1	HMMOP 3.5MPSI, PII	✓
PP 24	2	CCC2066-1000		LCS16	1:1	PII	Pass
PP							
PP							
PP							
PP							
PP							
PP							
PP							
PP							
PP							
PP							
PP							
PP							
PP							
PP							
PP							

IV 01/19/17

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Analyst's Signature: (b) (6)

SGS ACCUTEST-ORLANDO

DATE:	1/19/2017
COLUMN TYRE:	EXTEK
AMOUNT INJECTED:	100 ul
INSTRUMENT:	HPLC4-PP

HPLC4-PP ANALYSIS LOG

METHODS:	8330 A/B
ACQ. METHOD:	8330 B PL
PROC. METHOD:	8330 B plus
CALIB. DATE:	1/18/17
RUN BATCH: GPP	2067

ANALYST:	(6)
ACETONITRILE LOT #:	322
MEOH LOT #:	166439
HEAD PRESSURE:	176

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
PP 381225	1	Solvent	8330	—	—		ND
PP 26	2	cc L0660-1000		LC816	50/50	P11	pass
PP 27	3	FF4851-2 -3		OP4131	20/20	2x 35 MPSI, P11 NB MPSI 9um MPSI	✓
PP 28	4	↓		↓	↓	2x: 35 MPSI 4AMPSI 5um MPSI	✓
PP 29	5	ecc 20616-1000		LC816	50/50	P11	Pass
PP							
PP							
PP							
PP							
PP							
PP						MA ad 1/19/2017	
PP							
PP							
PP							
PP							
PP							
PP							
PP							
PP							
PP							

Manual Integration Rationale SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baselin[redacted]ion
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Ana[redacted] (6)

Instrument Run Log: HPP2072 page 1 of 1

SGS ACCUTEST-ORLANDO

DATE:	2/20/17 rev 2/21/17
COLUMN TYPE:	Extra CIB
AMOUNT INJECTED:	100 ul
INSTRUMENT:	HPLC4-PP

HPLC4-PP ANALYSIS LOG

METHODS:	8330A/B
ACQ. METHOD:	8330 BPL
PROC. METHOD:	8330 - 0118 B.pkw
CALIB. DATE:	1/18/17
RUN BATCH: GPP	2072

ANALYST:	(b) (6)
ACETONITRILE LOT #:	32-97
MEOH LOT #:	167203
HEAD PRESSURE:	131

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	COMMENTS
PP 31323	1	Solvent	8330	—	—		ND
PP 24	2	cc/dc-1000		LC816	1:1	pii	PASS (compd 11 b uncaptured)
PP 25	3	OP38423-LCS		OP38423	1x	pii	✓
PP 26	4	↓ -MB		↓			ND
PP 27	5	FA40814-8A				pii	✓
PP 28	6	OP38460-LCS		OP38460		pii	✓
PP 29	7	↓ -MB					ND
PP 30	8	FA 40847-8				pii	✓
PP 31	9	FA41143.1					ND
PP 32	10	OP38460 -MS				pii	✓
PP 33	11	-MSD				pii	✓
PP 34	12	OP38460-PT I				pii	✓
PP 35	2	ccc 2016-1000	↓	LC 816	1:1	ECL 2/21/17	pass (compd 1/b second signal)
PP							
PP							
PP						N/A ECD	2/20/17
PP							
PP							
PP							
PP							

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

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Analyst's Sign (b) (6)

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SGS ACCUTEST - ORLANDO **EXP/PFC SAMPLE PREP REPORT**

Prep Method: 8330A, 8332, 8330B, 537MOD (PFC) or Other_____ (circle)

Date/Time: 02/17/17 1430 Started {mm/dd/yy 24:00}

Therm. ID:___ Corr. Factor (±℃):___
Bath Temp. (High) ℃ :___/___{obs/corr}

Date/Time: 02/18/17 0900 Finished {mm/dd/yy 24:00}

Ultrasonic Bath ID (8330A or 8332):___
Shaker Table ID (8330B): ST1

Batch#: OP63860 Ext. By: (b) (6) Vialed By: (b) (6) Balance ID: METTLER 1

Sample ID	Bottle Number	Amount Extracted (g)	Surrogate Amount	Spike Amount	Final Volume (ml)	Comments
OP63860 MB	X	10.0	1.25ml		50ml	
OP63860 BS	X	10.0		1.25+1.25ml		
FA40847-18	1	10.1				
FA41143-1	1	10.0				
			(b) (6)		02/18/17	
OP63860 - PT-1	X	10.0	1.25ml		50ml	
FA41143-1 MS	1	10.0	1.25ml	1.25+1.25ml		
-1 MSD	1	10.0				
DUP						
TRP						

Comments:

Surr. ID: ES7456 Conc: 20 ppm Exp. Date: 04/30/17 Inj. By: (b) (6)

Spk.1 ID: ES817 Conc: 20 ppm Exp. Date: 02/27/17 Inj. By:

Spk.2 ID: 83494 Conc: 1000 ug/ml Exp. Date: 02/17/18 Inj. By:

Acetonitrile Lot # HC1S6997 Methanol Lot #___ Water Lot# 166415 HPLC

Syringe Filter Lot# 1309250007 Reagent # CS1 Reagent #___

(b) (6)

Date: 02/18/17

Date: 02-20-17

NF 05/16 extsolid_exp 051616.xls

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries
- IDL and Linear Range Summaries

SGS Accutest Instrument Runlog
Inorganics Analyses

Login Number: FA41143
Account: ARCTXEL - Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

File ID: SB021517M1.ICP Date Analyzed: 02/15/17 Methods: SW846 6010C
Analyst: LM Run ID: MA13817
Parameters: Sb,As,Be,Cu,Pb,Ni,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:05	MA13817-STD1	1		STDA
09:10	MA13817-STD2	1		STDB
09:13	MA13817-STD3	1		STDC
09:17	MA13817-STD4	1		STDD
09:21	MA13817-HSTD1	1		
09:28	MA13817-ICV1	1		
09:36	MA13817-ICB1	1		
09:45	MA13817-CRIA1	1		
09:50	MA13817-ICSA1	1		
09:58	MA13817-ICSAB1	1		
10:04	MA13817-CCV1	1		
10:13	MA13817-CCB1	1		
10:27	ZZZZZZ	5		
10:32	ZZZZZZ	50		
10:36	ZZZZZZ	50		
10:40	ZZZZZZ	50		
10:44	ZZZZZZ	50		
10:48	ZZZZZZ	10		
10:52	ZZZZZZ	20		
10:56	ZZZZZZ	100		
11:00	ZZZZZZ	100		
11:04	MA13817-CCV2	1		
11:08	MA13817-CCB2	1		
11:12	ZZZZZZ	20		
11:16	ZZZZZZ	125		
11:21	ZZZZZZ	50		
11:25	ZZZZZZ	20		
11:29	ZZZZZZ	50		
11:33	ZZZZZZ	100		
11:37	ZZZZZZ	50		
11:41	ZZZZZZ	100		
11:45	MA13817-CCV3	1		
11:49	MA13817-CCB3	1		

SGS Accutest Instrument Runlog
Inorganics Analyses

Login Number: FA41143
Account: ARCTXEL - Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

File ID: SB021517M1.ICP Date Analyzed: 02/15/17 Methods: SW846 6010C
Analyst: LM Run ID: MA13817
Parameters: Sb,As,Be,Cu,Pb,Ni,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:12	FA41132-1L	1		(sample used for QC only; not part of login FA41143)
12:17	MP31638-MB1	1		
12:21	MP31638-B1	1		
12:25	FA40928-1	1		(sample used for QC only; not part of login FA41143)
12:29	MP31638-D1	1		
12:33	MP31638-SD1	5		
12:38	MP31638-S1	1		
12:42	MP31638-S2	1		
12:46	ZZZZZZ	1		
12:50	ZZZZZZ	1		
12:55	MA13817-CCV4	1		
12:58	MA13817-CCB4	1		
13:03	ZZZZZZ	1		
13:07	ZZZZZZ	1		
13:11	ZZZZZZ	1		
13:16	ZZZZZZ	1		
13:20	MP31638-D2	1		
13:24	MP31638-MB2	1		
13:29	MP31638-B2	1		
13:33	MP31640-MB1	1		
13:37	MP31640-B1	1		
13:41	MP31640-B2	1		
13:45	MA13817-CCV5	1		
13:49	MA13817-CCB5	1		
13:53	ZZZZZZ	1		
13:57	ZZZZZZ	1		
14:08	MA13817-CCV6	1		
14:15	MA13817-CCB6	1		
14:19	MP31639-MB1	1		
14:23	MP31639-B1	1		
14:27	FA40942-37A	1		(sample used for QC only; not part of login FA41143)
14:31	MP31639-D1	1		
14:36	MP31639-SD1	5		

SGS Accutest Instrument Runlog
Inorganics Analyses

Login Number: FA41143
Account: ARCTXEL - Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

File ID: SB021517M1.ICP Date Analyzed: 02/15/17 Methods: SW846 6010C
Analyst: LM Run ID: MA13817
Parameters: Sb,As,Be,Cu,Pb,Ni,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:40	MP31639-S1	1		
14:44	MP31639-S2	1		
14:48	FA40942-36A	1		(sample used for QC only; not part of login FA41143)
14:52	ZZZZZZ	1		
14:57	ZZZZZZ	1		
15:01	MA13817-CCV7	1		
15:05	MA13817-CCB7	1		
15:09	ZZZZZZ	1		
15:13	ZZZZZZ	1		
15:17	ZZZZZZ	1		
15:22	ZZZZZZ	1		
15:26	ZZZZZZ	1		
15:30	ZZZZZZ	1		
15:34	ZZZZZZ	1		
15:38	FA40942-47A	1		(sample used for QC only; not part of login FA41143)
15:42	ZZZZZZ	1		
15:47	ZZZZZZ	1		
15:51	MA13817-CCV8	1		
15:55	MA13817-CCB8	1		
16:32	ZZZZZZ	1		
16:36	ZZZZZZ	1		
16:40	ZZZZZZ	1		
16:44	MA13817-CCV9	1		
16:48	MA13817-CCB9	1		
16:53	MP31639-D2	1		
16:57	MP31639-D3	1		
17:01	MP31639-MB2	1		
17:05	MP31639-B2	1		
17:09	MP31639-MB3	1		
17:13	MP31639-B3	1		
17:17	MP31641-MB1	1		
17:22	MP31641-B1	1		
17:26	FA41143-1	5		

SGS Accutest Instrument Runlog
Inorganics Analyses

Login Number: FA41143
Account: ARCTXEL - Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

File ID: SB021517M1.ICP Date Analyzed: 02/15/17 Methods: SW846 6010C
Analyst: LM Run ID: MA13817
Parameters: Sb,As,Be,Cu,Pb,Ni,Zn

	Time	Sample Description	Dilution Factor	PS Recov	Comments
	17:30	MP31641-D1	5		
	17:34	MA13817-CCV10	1		
	17:38	MA13817-CCB10	1		
	17:42	MP31641-SD1	25		
	17:46	MP31641-PS1	5		
	17:50	MP31641-S1	5		
	17:54	MP31641-S2	5		
---------->		Last reportable sample/prep for job FA41143			
	17:58	ZZZZZZ	5		
	18:02	ZZZZZZ	5		
	18:07	ZZZZZZ	5		
	18:11	ZZZZZZ	5		
	18:15	ZZZZZZ	5		
	18:20	ZZZZZZ	5		
	18:24	MA13817-CCV11	1		
	18:28	MA13817-CCB11	1		
	18:32	ZZZZZZ	5		
	18:37	ZZZZZZ	5		
	18:41	ZZZZZZ	5		
	18:45	ZZZZZZ	5		
	18:50	ZZZZZZ	5		
	18:54	ZZZZZZ	5		
	18:58	ZZZZZZ	5		
	19:02	ZZZZZZ	5		
	19:07	ZZZZZZ	5		
	19:11	ZZZZZZ	5		
	19:15	MA13817-CCV12	1		
	19:19	MA13817-CCB12	1		
	19:24	ZZZZZZ	5		
	19:28	ZZZZZZ	5		
	19:32	ZZZZZZ	5		
	19:36	MA13817-CRIA2	1		
	19:41	MA13817-ICSA2	1		
	19:45	MA13817-ICSAB2	1		

SGS Accutest Instrument Runlog
Inorganics Analyses

Login Number: FA41143
Account: ARCTXEL - Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

File ID: SB021517M1.ICP Date Analyzed: 02/15/17 Methods: SW846 6010C
Analyst: LM Run ID: MA13817
Parameters: Sb,As,Be,Cu,Pb,Ni,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
19:49	MA13817-CCV13	1		
19:53	MA13817-CCB13	1		
---------->	Last reportable CCB for job FA41143			
	Refer to raw data for calibration curve and standards.			

INTERNAL STANDARD SUMMARY

Login Number: FA41143
Account: ARCTXEL - Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

File ID: SB021517M1.ICP Date Analyzed: 02/15/17 Methods: SW846 6010C
Analyst: LM Run ID: MA13817
Parameters: Sb,As,Be,Cu,Pb,Ni,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
09:05	MA13817-STD1	5200	39650	4299	1956
09:10	MA13817-STD2	5219	39463	4349	1905
09:13	MA13817-STD3	5040	38358	4304	1766
09:17	MA13817-STD4	4854	37324	4281	1663
09:21	MA13817-HSTD1	4844	37355	4293	1663
09:28	MA13817-ICV1	5065	38788	4340	1786
09:36	MA13817-ICB1	5215 R	40272 R	4315 R	1980 R
09:45	MA13817-CRIA1	5176	39549	4294	1931
09:50	MA13817-ICSA1	4740	35473	4242	1582
09:58	MA13817-ICSAB1	4655	35011	4123	1540
10:04	MA13817-CCV1	5010	38593	4309	1787
10:13	MA13817-CCB1	5202	40180	4318	1989
10:27	ZZZZZZ	5150	38783	4334	1812
10:32	ZZZZZZ	5250	40337	4407	1972
10:36	ZZZZZZ	5248	40376	4366	1973
10:40	ZZZZZZ	5228	40242	4376	1956
10:44	ZZZZZZ	5260	40244	4377	1963
10:48	ZZZZZZ	5257	40210	4416	1889
10:52	ZZZZZZ	5261	40184	4352	1943
10:56	ZZZZZZ	5228	40119	4368	1963
11:00	ZZZZZZ	5230	39848	4323	1958
11:04	MA13817-CCV2	5005	38054	4268	1755
11:08	MA13817-CCB2	5223	39620	4281	1968
11:12	ZZZZZZ	5269	40657	4482	1953
11:16	ZZZZZZ	5205	40147	4352	1963
11:21	ZZZZZZ	5258	40131	4418	1964
11:25	ZZZZZZ	5245	39715	4377	1934
11:29	ZZZZZZ	5250	39771	4358	1943
11:33	ZZZZZZ	5232	39882	4366	1949
11:37	ZZZZZZ	5271	40099	4357	1956
11:41	ZZZZZZ	5265	40239	4336	1966
11:45	MA13817-CCV3	5056	38382	4350	1774
11:49	MA13817-CCB3	5214	39742	4312	1955

INTERNAL STANDARD SUMMARY

Login Number: FA41143
Account: ARCTXEL - Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

File ID: SB021517M1.ICP Date Analyzed: 02/15/17 Methods: SW846 6010C
Analyst: LM Run ID: MA13817
Parameters: Sb,As,Be,Cu,Pb,Ni,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
12:12	FA41132-1L	5063	37667	4264	1799
12:17	MP31638-MB1	5254	40190	4290	1956
12:21	MP31638-B1	5129	38804	4303	1822
12:25	FA40928-1	5040	37876	4313	1810
12:29	MP31638-D1	5021	38261	4340	1805
12:33	MP31638-SD1	5160	38933	4332	1895
12:38	MP31638-S1	5007	37710	4287	1734
12:42	MP31638-S2	5005	37793	4285	1743
12:46	ZZZZZZ	5009	37708	4294	1793
12:50	ZZZZZZ	4953	37449	4257	1768
12:55	MA13817-CCV4	5049	38280	4298	1763
12:58	MA13817-CCB4	5192	39554	4307	1944
13:03	ZZZZZZ	4959	37344	4215	1776
13:07	ZZZZZZ	4948	37278	4221	1765
13:11	ZZZZZZ	4910	36809	4209	1743
13:16	ZZZZZZ	5090	38044	4318	1804
13:20	MP31638-D2	5039	38009	4273	1815
13:24	MP31638-MB2	4996	37354	4241	1795
13:29	MP31638-B2	4976	37410	4236	1734
13:33	MP31640-MB1	5259	40552	4385	1989
13:37	MP31640-B1	5126	39251	4330	1845
13:41	MP31640-B2	5108	38945	4293	1833
13:45	MA13817-CCV5	4984	37724	4240	1749
13:49	MA13817-CCB5	5186	39593	4250	1952
13:53	ZZZZZZ	5148	39636	4213	1945
13:57	ZZZZZZ	5181	39880	4236	1978
14:08	MA13817-CCV6	5007	37932	4290	1756
14:15	MA13817-CCB6	5195	39646	4276	1945
14:19	MP31639-MB1	5184	39763	4246	1946
14:23	MP31639-B1	5078	38338	4244	1816
14:27	FA40942-37A	4875	37134	4203	1769
14:31	MP31639-D1	4799	36958	4182	1754
14:36	MP31639-SD1	5064	38591	4242	1890

INTERNAL STANDARD SUMMARY

Login Number: FA41143
Account: ARCTXEL - Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

File ID: SB021517M1.ICP Date Analyzed: 02/15/17 Methods: SW846 6010C
Analyst: LM Run ID: MA13817
Parameters: Sb,As,Be,Cu,Pb,Ni,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
14:40	MP31639-S1	4936	37175	4246	1704
14:44	MP31639-S2	4943	37567	4260	1705
14:48	FA40942-36A	4964	37956	4258	1824
14:52	ZZZZZZ	4854	36970	4226	1749
14:57	ZZZZZZ	4936	37748	4205	1796
15:01	MA13817-CCV7	4972	37736	4215	1750
15:05	MA13817-CCB7	5190	39239	4295	1945
15:09	ZZZZZZ	4899	37286	4211	1767
15:13	ZZZZZZ	4988	38021	4244	1815
15:17	ZZZZZZ	5066	38870	4283	1847
15:22	ZZZZZZ	4920	37687	4247	1796
15:26	ZZZZZZ	4932	38022	4297	1800
15:30	ZZZZZZ	4927	37435	4260	1793
15:34	ZZZZZZ	4897	37375	4221	1774
15:38	FA40942-47A	4886	37184	4253	1781
15:42	ZZZZZZ	4917	37733	4268	1796
15:47	ZZZZZZ	4894	37547	4220	1796
15:51	MA13817-CCV8	4984	37869	4257	1758
15:55	MA13817-CCB8	5188	39738	4279	1953
16:32	ZZZZZZ	4859	37087	4214	1756
16:36	ZZZZZZ	4872	37119	4222	1766
16:40	ZZZZZZ	4922	37588	4221	1807
16:44	MA13817-CCV9	4973	37971	4251	1754
16:48	MA13817-CCB9	5151	39122	4238	1937
16:53	MP31639-D2	4933	37467	4207	1816
16:57	MP31639-D3	4875	37312	4205	1775
17:01	MP31639-MB2	5180	39922	4290	1958
17:05	MP31639-B2	5060	38389	4263	1811
17:09	MP31639-MB3	5190	39389	4240	1942
17:13	MP31639-B3	5085	38234	4239	1814
17:17	MP31641-MB1	5201	40142	4340	1965
17:22	MP31641-B1	5073	38583	4280	1821
17:26	FA41143-1	5979	45293	4936	1876

INTERNAL STANDARD SUMMARY

Login Number: FA41143
Account: ARCTXEL - Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

File ID: SB021517M1.ICP Date Analyzed: 02/15/17 Methods: SW846 6010C
Analyst: LM Run ID: MA13817
Parameters: Sb,As,Be,Cu,Pb,Ni,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
17:30	MP31641-D1	5936	44926	4943	1860
17:34	MA13817-CCV10	4960	37483	4200	1736
17:38	MA13817-CCB10	5140	39092	4179	1939
17:42	MP31641-SD1	5339	40288	4373	1921
17:46	MP31641-PS1	5904	44562	4868	1861
17:50	MP31641-S1	5721	43290	4812	1808
17:54	MP31641-S2	6013	45537	5046	1829
17:58	ZZZZZZ	5093	39570	4421	1768
18:02	ZZZZZZ	5142	39561	4398	1770
18:07	ZZZZZZ	5147	39991	4467	1752
18:11	ZZZZZZ	5124	39690	4414	1761
18:15	ZZZZZZ	4811	39021	4367	1732
18:20	ZZZZZZ	4990	39346	4386	1752
18:24	MA13817-CCV11	4954	37180	4134	1734
18:28	MA13817-CCB11	5161	39146	4135	1940
18:32	ZZZZZZ	5119	39719	4401	1785
18:37	ZZZZZZ	5024	39385	4315	1796
18:41	ZZZZZZ	5172	39567	4350	1797
18:45	ZZZZZZ	4268	38821	4285	1753
18:50	ZZZZZZ	4540	38928	4277	1731
18:54	ZZZZZZ	3930	38724	4278	1735
18:58	ZZZZZZ	4841	39166	4369	1775
19:02	ZZZZZZ	4715	39235	4290	1756
19:07	ZZZZZZ	4832	39365	4271	1766
19:11	ZZZZZZ	5012	39828	4322	1785
19:15	MA13817-CCV12	4935	37350	4067	1746
19:19	MA13817-CCB12	5140	39343	4088	1950
19:24	ZZZZZZ	3912	38914	4232	1721
19:28	ZZZZZZ	4979	39268	4272	1760
19:32	ZZZZZZ	4946	39284	4246	1775
19:36	MA13817-CRIA2	5129	38962	4072	1913
19:41	MA13817-ICSA2	4616	34501	3891	1548
19:45	MA13817-ICSAB2	4600	34381	3923	1529

INTERNAL STANDARD SUMMARY

Login Number: FA41143
Account: ARCTXEL - Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

File ID: SB021517M1.ICP Date Analyzed: 02/15/17 Methods: SW846 6010C
Analyst: LM Run ID: MA13817
Parameters: Sb,As,Be,Cu,Pb,Ni,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
19:49	MA13817-CCV13	4949	37634	3998	1752
19:53	MA13817-CCB13	5127	39184	4016	1944

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA41143
Account: ARCTXEL - Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

File ID: SB021517M1.ICP Date Analyzed: 02/15/17 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA13817 Units: ug/l

Time: / Sample ID:			09:36 ICB1		10:13 CCB1		11:08 CCB2		11:49 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14								
Antimony	20	1	0.80	<20	1.2	<20	0.60	<20	0.60	<20
Arsenic	10	1.3	0.50	<10	0.30	<10	1.0	<10	0.90	<10
Barium	200	1	anr							
Beryllium	5.0	.2	0.0	<5.0	0.0	<5.0	0.10	<5.0	0.20	<5.0
Cadmium	4.0	.2	anr							
Calcium	5000	50								
Chromium	10	1	anr							
Cobalt	50	.2								
Copper	25	1	0.10	<25	0.20	<25	0.30	<25	0.40	<25
Iron	300	17								
Lead	20	1	0.0	<20	-0.40	<20	-0.40	<20	0.30	<20
Magnesium	5000	35								
Manganese	15	.5								
Molybdenum	50	.3								
Nickel	40	.4	0.30	<40	0.10	<40	0.30	<40	0.50	<40
Potassium	10000	200								
Selenium	20	2.4	anr							
Silver	10	.7	anr							
Sodium	10000	500								
Strontium	10	.5								
Thallium	10	1.1	anr							
Tin	50	.9								
Titanium	10	.5								
Vanadium	50	.5								
Zinc	20	3	0.0	<20	0.20	<20	0.30	<20	0.40	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA41143
Account: ARCTXEL - Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

File ID: SB021517M1.ICP Date Analyzed: 02/15/17 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA13817 Units: ug/l

Time: / Sample ID:			12:58 CCB4		13:49 CCB5		14:15 CCB6		15:05 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14								
Antimony	20	1	0.20	<20	0.50	<20	0.70	<20	0.10	<20
Arsenic	10	1.3	0.60	<10	0.30	<10	0.20	<10	0.50	<10
Barium	200	1	anr							
Beryllium	5.0	.2	0.10	<5.0	0.10	<5.0	0.0	<5.0	0.10	<5.0
Cadmium	4.0	.2	anr							
Calcium	5000	50								
Chromium	10	1	anr							
Cobalt	50	.2								
Copper	25	1	0.20	<25	-0.10	<25	0.20	<25	0.20	<25
Iron	300	17								
Lead	20	1	0.10	<20	-0.10	<20	-0.30	<20	0.10	<20
Magnesium	5000	35								
Manganese	15	.5								
Molybdenum	50	.3								
Nickel	40	.4	0.20	<40	0.30	<40	0.20	<40	0.20	<40
Potassium	10000	200								
Selenium	20	2.4	anr							
Silver	10	.7	anr							
Sodium	10000	500								
Strontium	10	.5								
Thallium	10	1.1	anr							
Tin	50	.9								
Titanium	10	.5								
Vanadium	50	.5								
Zinc	20	3	0.30	<20	0.10	<20	0.10	<20	0.10	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA41143
Account: ARCTXEL - Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

File ID: SB021517M1.ICP Date Analyzed: 02/15/17 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA13817 Units: ug/l

Time: / Sample ID:			15:55 CCB8		16:48 CCB9		17:38 CCB10		18:28 CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14								
Antimony	20	1	0.50	<20	0.0	<20	0.90	<20	0.70	<20
Arsenic	10	1.3	0.20	<10	0.70	<10	0.40	<10	0.70	<10
Barium	200	1	anr							
Beryllium	5.0	.2	0.0	<5.0	0.10	<5.0	0.10	<5.0	0.10	<5.0
Cadmium	4.0	.2	anr							
Calcium	5000	50								
Chromium	10	1	anr							
Cobalt	50	.2								
Copper	25	1	0.0	<25	-0.10	<25	-0.10	<25	2.1	<25
Iron	300	17								
Lead	20	1	0.40	<20	-0.10	<20	-0.30	<20	0.30	<20
Magnesium	5000	35								
Manganese	15	.5								
Molybdenum	50	.3								
Nickel	40	.4	0.10	<40	0.10	<40	0.10	<40	0.20	<40
Potassium	10000	200								
Selenium	20	2.4	anr							
Silver	10	.7	anr							
Sodium	10000	500								
Strontium	10	.5								
Thallium	10	1.1	anr							
Tin	50	.9								
Titanium	10	.5								
Vanadium	50	.5								
Zinc	20	3	0.0	<20	0.0	<20	0.10	<20	2.2	<20

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA41143
Account: ARCTXEL - Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

File ID: SB021517M1.ICP Date Analyzed: 02/15/17 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA13817 Units: ug/l

Time: / Sample ID: / Metal	RL	IDL	19:19 CCB12 raw	final	19:53 CCB13 raw	final
Aluminum	200	14				
Antimony	20	1	0.30	<20	1.5	<20
Arsenic	10	1.3	-0.10	<10	-0.40	<10
Barium	200	1	anr			
Beryllium	5.0	.2	0.10	<5.0	0.10	<5.0
Cadmium	4.0	.2	anr			
Calcium	5000	50				
Chromium	10	1	anr			
Cobalt	50	.2				
Copper	25	1	2.6	<25	0.50	<25
Iron	300	17				
Lead	20	1	0.0	<20	0.20	<20
Magnesium	5000	35				
Manganese	15	.5				
Molybdenum	50	.3				
Nickel	40	.4	0.30	<40	0.30	<40
Potassium	10000	200				
Selenium	20	2.4	anr			
Silver	10	.7	anr			
Sodium	10000	500				
Strontium	10	.5				
Thallium	10	1.1	anr			
Tin	50	.9				
Titanium	10	.5				
Vanadium	50	.5				
Zinc	20	3	3.2	<20	0.60	<20

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA41143
Account: ARCTXEL - Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

File ID: SB021517M1.ICP Date Analyzed: 02/15/17 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA13817 Units: ug/l

Time:		09:28			10:04			11:04	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum									
Antimony	2000	2010	100.5	2000	1950	97.5	2000	2000	100.0
Arsenic	2000	2040	102.0	2000	2040	102.0	2000	2000	100.0
Barium	anr								
Beryllium	2000	2020	101.0	2000	1950	97.5	2000	2000	100.0
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	2000	1990	99.5	2000	1920	96.0	2000	1990	99.5
Iron									
Lead	2000	1990	99.5	2000	1940	97.0	2000	2000	100.0
Magnesium									
Manganese									
Molybdenum									
Nickel	2000	2040	102.0	2000	2060	103.0	2000	2030	101.5
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	2000	2020	101.0	2000	2000	100.0	2000	2020	101.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA41143
Account: ARCTXEL - Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

File ID: SB021517M1.ICP Date Analyzed: 02/15/17 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA13817 Units: ug/l

Time:		11:45			12:55			13:45	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum									
Antimony	2000	1990	99.5	2000	2000	100.0	2000	2010	100.5
Arsenic	2000	2000	100.0	2000	1990	99.5	2000	2010	100.5
Barium	anr								
Beryllium	2000	1980	99.0	2000	1990	99.5	2000	2000	100.0
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	2000	1980	99.0	2000	2010	100.5	2000	2010	100.5
Iron									
Lead	2000	1990	99.5	2000	2000	100.0	2000	2010	100.5
Magnesium									
Manganese									
Molybdenum									
Nickel	2000	2020	101.0	2000	2020	101.0	2000	2050	102.5
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	2000	2000	100.0	2000	2010	100.5	2000	2030	101.5

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA41143
Account: ARCTXEL - Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

File ID: SB021517M1.ICP Date Analyzed: 02/15/17 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA13817 Units: ug/l

Time:		14:08			15:01			15:51	
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum									
Antimony	2000	2020	101.0	2000	2000	100.0	2000	1990	99.5
Arsenic	2000	2020	101.0	2000	2030	101.5	2000	2030	101.5
Barium	anr								
Beryllium	2000	1990	99.5	2000	1990	99.5	2000	1960	98.0
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	2000	2020	101.0	2000	1990	99.5	2000	1980	99.0
Iron									
Lead	2000	2000	100.0	2000	1990	99.5	2000	1980	99.0
Magnesium									
Manganese									
Molybdenum									
Nickel	2000	2050	102.5	2000	2060	103.0	2000	2070	103.5
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	2000	2020	101.0	2000	2020	101.0	2000	2010	100.5

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA41143
Account: ARCTXEL - Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

File ID: SB021517M1.ICP Date Analyzed: 02/15/17 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA13817 Units: ug/l

Time:		16:44			17:34			18:24	
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum									
Antimony	2000	2000	100.0	2000	2010	100.5	2000	2020	101.0
Arsenic	2000	2040	102.0	2000	2020	101.0	2000	2020	101.0
Barium	anr								
Beryllium	2000	1980	99.0	2000	1990	99.5	2000	1980	99.0
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	2000	1990	99.5	2000	2020	101.0	2000	2030	101.5
Iron									
Lead	2000	1990	99.5	2000	2010	100.5	2000	2020	101.0
Magnesium									
Manganese									
Molybdenum									
Nickel	2000	2080	104.0	2000	2060	103.0	2000	2060	103.0
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									
Zinc	2000	2020	101.0	2000	2030	101.5	2000	2040	102.0

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA41143
Account: ARCTXEL - Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

File ID: SB021517M1.ICP Date Analyzed: 02/15/17 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA13817 Units: ug/l

Time:		19:15			19:49	
Sample ID:	CCV	CCV12		CCV	CCV13	
Metal	True	Results	% Rec	True	Results	% Rec
Aluminum						
Antimony	2000	2000	100.0	2000	2000	100.0
Arsenic	2000	2060	103.0	2000	2060	103.0
Barium	anr					
Beryllium	2000	1970	98.5	2000	1960	98.0
Cadmium	anr					
Calcium						
Chromium	anr					
Cobalt						
Copper	2000	1990	99.5	2000	1970	98.5
Iron						
Lead	2000	2000	100.0	2000	2000	100.0
Magnesium						
Manganese						
Molybdenum						
Nickel	2000	2100	105.0	2000	2080	104.0
Potassium						
Selenium	anr					
Silver	anr					
Sodium						
Strontium						
Thallium	anr					
Tin						
Titanium						
Vanadium						
Zinc	2000	2050	102.5	2000	2040	102.0

(*) Outside of QC limits
(anr) Analyte not requested

SGS ACCUTEST FA41143

HIGH STANDARD CHECK SUMMARY

Login Number: FA41143
Account: ARCTXEL - Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

File ID: SB021517M1.ICP Date Analyzed: 02/15/17 Methods: SW846 6010C
QC Limits: 95 to 105 % Recovery Run ID: MA13817 Units: ug/l

Time:		09:21	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum			
Antimony	4000	3990	99.8
Arsenic	4000	4040	101.0
Barium	anr		
Beryllium	4000	3930	98.3
Cadmium	anr		
Calcium			
Chromium	anr		
Cobalt			
Copper	4000	3960	99.0
Iron			
Lead	4000	4000	100.0
Magnesium			
Manganese			
Molybdenum			
Nickel	4000	4000	100.0
Potassium			
Selenium	anr		
Silver	anr		
Sodium			
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium			
Zinc	4000	3970	99.3

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA41143
Account: ARCTXEL - Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

File ID: SB021517M1.ICP Date Analyzed: 02/15/17 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA13817 Units: ug/l

Time:			09:45		19:36	
Sample ID:	CRI	CRIA	CRIA1		CRIA2	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	400	200				
Antimony	10	5.0	5.3	106.0	4.9	98.0
Arsenic	20	10	11.1	111.0	11.3	113.0
Barium	400	200	anr			
Beryllium	10	5.0	5.4	108.0	5.4	108.0
Cadmium	10	5.0	anr			
Calcium	2000	1000				
Chromium	20	10	anr			
Cobalt	100	50				
Copper	50	25	26.6	106.4	36.1	144.4*(a
Iron	600	300				
Lead	10	5.0	5.3	106.0	5.0	100.0
Magnesium	10000	5000				
Manganese	30	15				
Molybdenum	100	50				
Nickel	80	40	45.7	114.3	46.1	115.3
Potassium	20000	10000				
Selenium	20	10	anr			
Silver	20	10	anr			
Sodium	20000	10000				
Strontium	20	10				
Thallium	20	10	anr			
Tin	100	50				
Titanium	20	10				
Vanadium	100	50				
Zinc	40	20	23.4	117.0	31.5	157.5*(a

(*) Outside of QC limits
(anr) Analyte not requested
(a) Possible instrument baseline drift.

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: FA41143
Account: ARCTXEL - Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

File ID: SB021517M1.ICP Date Analyzed: 02/15/17 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA13817 Units: ug/l

Time:			09:50		09:58		19:41		19:45	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	497000	99.4	513000	102.6	508000	101.6	508000	101.6
Antimony		1000	0.0		1100	110.0	2.1		1100	110.0
Arsenic		1000	1.0		1180	118.0	0.0		1190	119.0
Barium		500	-0.50		531	106.2	-0.30		544	108.8
Beryllium		500	-0.10		518	103.6	-0.10		500	100.0
Cadmium		1000	0.0		994	99.4	0.0		998	99.8
Calcium	500000	500000	471000	94.2	486000	97.2	475000	95.0	472000	94.4
Chromium		500	0.10		527	105.4	0.0		529	105.8
Cobalt		500	-0.60		498	99.6	-0.50		499	99.8
Copper		500	0.0		551	110.2	1.9		543	108.6
Iron	200000	200000	182000	91.0	183000	91.5	182000	91.0	177000	88.5
Lead		1000	0.0		1020	102.0	0.40		1020	102.0
Magnesium	500000	500000	513000	102.6	519000	103.8	518000	103.6	510000	102.0
Manganese		500	-0.80		516	103.2	-0.90		515	103.0
Molybdenum		1000	-0.10		991	99.1	-0.20		990	99.0
Nickel		1000	0.10		1010	101.0	-0.20		1030	103.0
Potassium			122		146		176		179	
Selenium		1000	0.0		1110	111.0	0.50		1130	113.0
Silver		1000	0.40		943	94.3	-0.30		961	96.1
Sodium			163		204		170		190	
Strontium		1000	-0.90		1040	104.0	-0.30		1030	103.0
Thallium		1000	0.0		1050	105.0	0.70		1040	104.0
Tin		1000	3.1		997	99.7	2.7		1010	101.0
Titanium		1000	0.20		1050	105.0	0.20		1050	105.0
Vanadium		500	1.0		487	97.4	0.70		489	97.8
Zinc		1000	0.20		993	99.3	2.3		994	99.4

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA41143
Account: ARCTXEL - Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

QC Batch ID: MP31641
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 02/15/17

Metal	RL	IDL	MDL	MB raw	final
Aluminum	10	.7	1.8		
Antimony	1.0	.05	.065	0.075	<1.0
Arsenic	0.50	.065	.1	-0.015	<0.50
Barium	10	.05	.05		
Beryllium	0.25	.01	.025	-0.0050	<0.25
Cadmium	0.20	.01	.025		
Calcium	250	2.5	2.5		
Chromium	0.50	.05	.05		
Cobalt	2.5	.01	.025		
Copper	1.3	.05	.05	0.025	<1.3
Iron	15	.85	.85		
Lead	1.0	.05	.05	0.035	<1.0
Magnesium	250	1.8	1.8		
Manganese	0.75	.025	.025		
Molybdenum	2.5	.015	.025		
Nickel	2.0	.02	.025	0.020	<2.0
Potassium	500	10	10		
Selenium	1.0	.12	.12		
Silver	0.50	.035	.041		
Sodium	500	25	25		
Strontium	0.50	.025	.025		
Thallium	0.50	.055	.055		
Tin	2.5	.045	.045		
Titanium	0.50	.025	.025		
Vanadium	2.5	.025	.025		
Zinc	1.0	.15	.15	0.11	<1.0

Associated samples MP31641: FA41143-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA41143
Account: ARCTXEL - Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

QC Batch ID: MP31641
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date:			02/15/17					02/15/17	
Metal	FA41143-1 Original	DUP	RPD	QC Limits	FA41143-1 Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum									
Antimony	0.65	0.54 (a)	18.5	0-20	0.65	8.6 (a)	25.3	31.4N(c)	80-120
Arsenic	5.0	5.0 (a)	0.0	0-20	5.0	98.8 (a)	101	92.6	80-120
Barium									
Beryllium	0.80	0.87 (a)	8.4	0-20	0.80	3.3 (a)	2.53	98.7	80-120
Cadmium									
Calcium									
Chromium	anr								
Cobalt									
Copper	42.0	19.6 (a)	72.7*(b)	0-20	42.0	31.5 (a)	12.7	-82.9N(c	80-120
Iron									
Lead	50.4	47.0 (a)	7.0	0-20	50.4	73.1 (a)	25.3	89.6	80-120
Magnesium									
Manganese									
Molybdenum									
Nickel	7.5	9.1 (a)	19.3	0-20	7.5	32.9 (a)	25.3	100.3	80-120
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	47.1	53.0 (a)	11.8	0-20	47.1	72.8 (a)	25.3	101.4	80-120

Associated samples MP31641: FA41143-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Sample dilution required due to difficult matrix.
(b) High RPD due to possible sample non-homogeneity.
(c) Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA41143
Account: ARCTXEL - Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

QC Batch ID: MP31641 Methods: SW846 6010C
Matrix Type: SOLID Units: mg/kg

Prep Date: 02/15/17

Metal	FA41143-1 Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	0.65	5.3 (a)	17.4	26.7N(b)	47.5 (c)	20
Arsenic	5.0	62.9 (a)	69.6	83.2	44.4 (c)	20
Barium						
Beryllium	0.80	2.2 (a)	1.74	80.5	40.0 (c)	20
Cadmium						
Calcium						
Chromium	anr					
Cobalt						
Copper	42.0	26.6 (a)	8.7	-177.0(d	16.9	20
Iron						
Lead	50.4	71.3 (a)	17.4	120.1N(b	2.5	20
Magnesium						
Manganese						
Molybdenum						
Nickel	7.5	22.8 (a)	17.4	87.9	36.3 (c)	20
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc	47.1	61.0 (a)	17.4	79.9N(b)	17.6	20

Associated samples MP31641: FA41143-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Sample dilution required due to difficult matrix.
(b) Spike recovery indicates possible matrix interference and/or sample non-homogeneity.
(c) High RPD due to possible sample non-homogeneity.
(d) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA41143
Account: ARCTXEL - Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

QC Batch ID: MP31641
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 02/15/17

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum				
Antimony	25.4	25	101.6	80-120
Arsenic	102	100	102.0	80-120
Barium				
Beryllium	2.6	2.5	104.0	80-120
Cadmium				
Calcium				
Chromium	anr			
Cobalt				
Copper	12.9	12.5	103.2	80-120
Iron				
Lead	24.7	25	98.8	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel	26.3	25	105.2	80-120
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	25.4	25	101.6	80-120

Associated samples MP31641: FA41143-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA41143
Account: ARCTXEL - Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

QC Batch ID: MP31641 Methods: SW846 6010C
Matrix Type: SOLID Units: ug/l

Prep Date: 02/15/17

Metal	FA41143-1 Original	SDL 5:25	%DIF	QC Limits
Aluminum				
Antimony	15.2	27.4	80.3 (a)	0-10
Arsenic	117	147	25.1 (a)	0-10
Barium				
Beryllium	18.8	20.7	10.1 (a)	0-10
Cadmium				
Calcium				
Chromium	anr			
Cobalt				
Copper	983	1080	9.9	0-10
Iron				
Lead	1180	1150	2.0	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel	176	197	11.8*(b)	0-10
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	1100	1440	30.4*(b)	0-10

Associated samples MP31641: FA41143-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
(b) Serial dilution indicates possible matrix interference.

POST DIGESTATE SPIKE SUMMARY

Login Number: FA41143
Account: ARCTXEL - Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

QC Batch ID: MP31641
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 02/15/17

Metal	Sample ml	Final ml	FA41143-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony	9.8	10	15.2	14.896	104.3	0.2	5	100	89.4	80-120
Arsenic	9.8	10	117.2	114.856	206.3	0.2	5	100	91.4	80-120
Barium										
Beryllium	9.8	10	18.8	18.424	63.1	0.2	2.5	50	89.4	80-120
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper	9.8	10	982.8	963.144	1036	0.2	5	100	72.9*(a)	80-120
Iron										
Lead	9.8	10	1177	1153.46	1167	0.2	2.5	50	27.1*(a)	80-120
Magnesium										
Manganese										
Molybdenum										
Nickel	9.8	10	176.3	172.774	263.2	0.2	5	100	90.4	80-120
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc	9.8	10	1102	1079.96	1286	0.2	12.5	250	82.4	80-120

Associated samples MP31641: FA41143-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested
(a) Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

Instrument Detection Limits

Job Number: FA41143
Account: ARCTXEL Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

Instrument ID: SSTRACE2 **Effective Date:** 01/27/15

Analyte	IDL ug/l
Aluminum	14
Antimony	1
Arsenic	1.3
Barium	1
Beryllium	.2
Cadmium	.2
Calcium	50
Chromium	1
Cobalt	.2
Copper	1
Iron	17
Lead	1
Magnesium	35
Manganese	.5
Molybdenum	.3
Nickel	.4
Potassium	200
Selenium	2.4
Silicon	5
Silver	.7
Sodium	500
Strontium	.5
Sulfur	5
Thallium	1.1
Tin	.9
Titanium	.5
Vanadium	.5
Zinc	3

The above applies to the following instrument runs:
MA13817

Instrument Linear Ranges

Job Number: FA41143
Account: ARCTXEL Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

Instrument ID: SSTRACE2 **Effective Date:** 10/22/10

Analyte	Linear Range ug/l
Aluminum	500000
Antimony	10000
Arsenic	10000
Barium	10000
Beryllium	10000
Cadmium	10000
Calcium	500000
Chromium	10000
Cobalt	10000
Copper	10000
Iron	500000
Lead	10000
Magnesium	500000
Manganese	10000
Molybdenum	10000
Nickel	10000
Potassium	80000
Selenium	10000
Silver	1000
Sodium	80000
Strontium	10000
Thallium	10000
Tin	10000
Titanium	10000
Vanadium	10000
Zinc	10000

The above applies to the following instrument runs:
MA13817

Metals Analysis

Raw Data

Zoom In ▶ Zoom Out

Sample Name: Blank Acquired: 2/15/2017 9:05:25 Type: Cal
Method: 60102007_041712(v543) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.0011	.0018	-.0005	.0033	.0005	.0063	-.0005	.0006	.0005
Stddev	.0000	.0019	.0001	.0027	.0003	.0009	.0001	.0002	.0001
%RSD	3.701	106.6	20.49	81.50	65.65	14.45	12.16	38.50	13.53
#1	-.0011	.0039	-.0004	.0034	.0001	.0053	-.0005	.0008	.0005
#2	-.0010	.0012	-.0005	.0005	.0005	.0068	-.0004	.0005	.0005
#3	-.0011	.0002	-.0006	.0059	.0007	.0069	-.0005	.0004	.0006

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0015	.0005	-.0010	-.0001	.0002	.0004	-.0054	-.0002	.0014
Stddev	.0001	.0002	.0046	.0003	.0001	.0001	.0015	.0001	.0003
%RSD	7.461	36.21	450.0	365.5	53.22	16.46	26.90	39.43	23.15
#1	.0014	.0004	.0036	.0000	.0001	.0004	-.0059	-.0001	.0010
#2	.0015	.0007	-.0056	.0002	.0003	.0003	-.0066	-.0002	.0015
#3	.0016	.0004	-.0011	-.0004	.0001	.0003	-.0038	-.0002	.0016

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0001	-.0012	.0030	.0006	-.0078	.0015	-.0032	.0001	.0025
Stddev	.0002	.0003	.0002	.0001	.0012	.0003	.0002	.0001	.0001
%RSD	135.0	23.80	7.631	9.962	15.00	20.97	5.617	53.57	2.295
#1	-.0001	-.0015	.0031	.0006	-.0092	.0015	-.0034	.0002	.0024
#2	.0002	-.0009	.0032	.0005	-.0072	.0018	-.0030	.0002	.0025
#3	.0003	-.0012	.0028	.0006	-.0072	.0012	-.0033	.0001	.0025

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1955.9	5200.3	39650.	4299.3
Stddev	1.3	2.7	190.	53.9
%RSD	.06538	.05258	.47928	1.2528
#1	1955.5	5201.3	39857.	4237.2
#2	1957.4	5197.2	39610.	4332.6
#3	1955.0	5202.4	39483.	4328.2

◀ Zoom In ▶ Zoom Out

Sample Name: LowStd Acquired: 2/15/2017 9:10:41 Type: Cal
Method: 60102007_041712(v543) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0277	1.711	.0991	4.893	4.496	2.930	2.856	1.363	.2593	.3239
Stddev	.0003	.005	.0001	.012	.017	.009	.001	.001	.0005	.0004
%RSD	1.211	.2979	.1427	.2367	.3772	.3129	.0382	.0882	.1776	.1138
#1	.0273	1.716	.0993	4.906	4.503	2.937	2.858	1.364	.2595	.3241
#2	.0277	1.712	.0990	4.886	4.508	2.933	2.856	1.362	.2587	.3241
#3	.0280	1.706	.0990	4.885	4.477	2.919	2.856	1.362	.2595	.3235

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.521	1.048	.2555	1.135	.5761	4.273	.6611	.6762	.1141	.0657
Stddev	.002	.004	.0011	.004	.0009	.011	.0007	.0031	.0004	.0002
%RSD	.1284	.3426	.4484	.3476	.1500	.2572	.1088	.4556	.3576	.3252
#1	1.520	1.052	.2558	1.133	.5755	4.284	.6606	.6776	.1145	.0659
#2	1.523	1.049	.2564	1.133	.5757	4.274	.6607	.6782	.1137	.0657
#3	1.519	1.045	.2542	1.140	.5771	4.262	.6619	.6726	.1140	.0655

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.2564	.2748	8.152	.8185	.3083	.3457	1.643
Stddev	.0003	.0003	.019	.0025	.0008	.0009	.001
%RSD	.1078	.1171	.2341	.3071	.2585	.2603	.0666
#1	.2566	.2750	8.170	.8162	.3080	.3464	1.644
#2	.2565	.2744	8.152	.8182	.3092	.3447	1.643
#3	.2561	.2749	8.132	.8212	.3077	.3460	1.642

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1905.3	5218.8	39463.	4349.1
Stddev	4.4	6.6	169.	9.1
%RSD	.23151	.12553	.42944	.20902
#1	1902.9	5211.6	39384.	4338.7
#2	1902.6	5220.3	39658.	4355.4
#3	1910.4	5224.4	39348.	4353.2

◀ Zoom In ▶ Zoom Out

Sample Name: MidStd Acquired: 2/15/2017 9:13:54 Type: Cal
Method: 60102007_041712(v543) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.1211	7.289	.3961	19.33	17.38	12.35	11.03	5.245	.9952	1.259
Stddev	.0003	.019	.0004	.02	.07	.03	.01	.009	.0019	.002
%RSD	.2535	.2571	.1060	.1122	.3746	.2201	.1274	.1700	.1867	.1834
#1	.1210	7.307	.3965	19.31	17.46	12.38	11.01	5.235	.9973	1.259
#2	.1214	7.291	.3956	19.35	17.34	12.33	11.03	5.247	.9936	1.256
#3	.1208	7.270	.3961	19.32	17.35	12.34	11.04	5.252	.9947	1.261

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6.570	4.508	1.085	4.374	2.372	18.23	2.542	2.693	.4487	.2633
Stddev	.009	.014	.000	.010	.004	.05	.002	.006	.0009	.0004
%RSD	.1452	.3146	.0125	.2359	.1832	.2822	.0602	.2318	.1940	.1367
#1	6.581	4.524	1.085	4.362	2.367	18.29	2.544	2.692	.4478	.2637
#2	6.565	4.504	1.085	4.378	2.374	18.22	2.541	2.699	.4489	.2633
#3	6.565	4.497	1.085	4.382	2.376	18.19	2.541	2.687	.4495	.2630

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.7155	1.116	33.64	3.359	1.220	1.400	6.329
Stddev	.0001	.001	.14	.004	.002	.002	.013
%RSD	.0182	.0417	.4260	.1032	.1724	.1578	.2086
#1	.7154	1.115	33.81	3.355	1.218	1.402	6.315
#2	.7157	1.116	33.55	3.362	1.222	1.401	6.331
#3	.7156	1.116	33.58	3.359	1.219	1.398	6.341

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1766.2	5040.2	38358.	4304.4
Stddev	1.0	7.8	58.	4.9
%RSD	.05913	.15568	.15136	.11391
#1	1765.2	5041.6	38320.	4310.1
#2	1767.3	5047.2	38425.	4301.4
#3	1766.3	5031.7	38329.	4301.8

◀ Zoom In ▶ Zoom Out

Sample Name: HighStd Acquired: 2/15/2017 9:17:08 Type: Cal
Method: 60102007_041712(v543) Mode: IR Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.2338	14.52	.8047	38.47	34.18	24.30	21.79	10.42	1.962	2.520
Stddev	.0013	.02	.0001	.15	.05	.06	.02	.01	.005	.010
%RSD	.5506	.1206	.0106	.4023	.1369	.2374	.0960	.1209	.2787	.3949
#1	.2345	14.51	.8047	38.51	34.14	24.27	21.77	10.40	1.966	2.531
#2	.2324	14.54	.8046	38.30	34.23	24.36	21.81	10.43	1.964	2.511
#3	.2346	14.52	.8048	38.60	34.16	24.25	21.79	10.43	1.956	2.520

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	13.10	9.009	2.149	8.425	4.610	36.37	5.058	5.435	.9058	.5332
Stddev	.01	.028	.002	.058	.003	.04	.006	.003	.0013	.0011
%RSD	.1078	.3100	.0843	.6838	.0711	.1230	.1187	.0507	.1434	.2039
#1	13.09	8.989	2.151	8.436	4.612	36.33	5.051	5.437	.9073	.5321
#2	13.09	9.041	2.147	8.476	4.611	36.42	5.062	5.435	.9053	.5343
#3	13.11	8.998	2.149	8.362	4.606	36.37	5.060	5.432	.9049	.5333

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.887	2.149	64.53	6.419	2.434	2.726	12.49
Stddev	.003	.003	.05	.031	.005	.004	.02
%RSD	.1792	.1422	.0738	.4879	.2218	.1479	.1738
#1	1.883	2.146	64.48	6.422	2.439	2.731	12.47
#2	1.889	2.152	64.58	6.448	2.428	2.724	12.51
#3	1.890	2.150	64.55	6.386	2.434	2.723	12.49

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1662.9	4854.0	37324.	4280.9
Stddev	.3	5.5	47.	43.1
%RSD	.02096	.11368	.12660	1.0071
#1	1663.3	4860.1	37296.	4288.7
#2	1662.8	4849.4	37297.	4234.4
#3	1662.6	4852.4	37378.	4319.6

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Zoom In Zoom Out

Sample Name: HSTD Acquired: 2/15/2017 9:21:51 Type: QC
Method: 60102007_041712(v543) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4938	79.99	4.037	3.981	3.934	79.48	3.972	3.976	3.961	3.959
Stddev	.0021	.22	.001	.008	.016	.27	.002	.001	.012	.007
%RSD	.4199	.2743	.0326	.2017	.3961	.3402	.0400	.0164	.2923	.1772
#1	.4924	80.11	4.038	3.981	3.937	79.49	3.970	3.975	3.956	3.956
#2	.4962	79.74	4.037	3.989	3.918	79.20	3.973	3.976	3.974	3.967
#3	.4928	80.13	4.035	3.973	3.948	79.74	3.973	3.976	3.953	3.953
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	79.61	80.75	80.18	3.884	3.957	79.85	4.000	4.001	3.989	4.035
Stddev	.17	.25	.19	.033	.006	.18	.004	.005	.003	.010
%RSD	.2089	.3126	.2369	.8588	.1422	.2306	.0985	.1319	.0691	.2383
#1	79.78	80.66	80.22	3.878	3.952	79.89	3.998	4.003	3.986	4.031
#2	79.45	80.56	79.97	3.921	3.957	79.65	4.004	4.004	3.992	4.046
#3	79.60	81.04	80.34	3.855	3.963	80.02	3.998	3.995	3.989	4.028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.313	3.960	3.921	3.918	3.974	3.967	3.970
Stddev	.008	.002	.011	.054	.008	.012	.002
%RSD	.1796	.0557	.2760	1.370	.2005	.3057	.0461
#1	4.304	3.962	3.921	3.906	3.976	3.962	3.968
#2	4.316	3.962	3.910	3.977	3.981	3.981	3.971
#3	4.319	3.958	3.931	3.872	3.965	3.958	3.971
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: HSTD Acquired: 2/15/2017 9:21:51 Type: QC
Method: 60102007_041712(v543) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1662.9	4844.1	37355.	4293.4
Stddev	2.5	3.1	212.	35.4
%RSD	.14967	.06330	.56627	.82337
#1	1662.5	4846.9	37425.	4277.8
#2	1660.6	4844.6	37117.	4333.8
#3	1665.5	4840.8	37522.	4268.5

Zoom In Zoom Out

Sample Name: ICV Acquired: 2/15/2017 9:28:16 Type: QC
Method: 60102007_041712(v543) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2532	41.23	2.044	2.022	2.015	41.91	2.026	2.023	2.009	1.986
Stddev	.0006	.06	.001	.005	.002	.07	.003	.001	.002	.009
%RSD	.2339	.1519	.0705	.2432	.0959	.1610	.1444	.0397	.1193	.4438
#1	.2530	41.28	2.043	2.019	2.016	41.99	2.026	2.024	2.006	1.977
#2	.2539	41.24	2.045	2.028	2.013	41.87	2.029	2.023	2.010	1.993
#3	.2528	41.16	2.045	2.020	2.016	41.87	2.023	2.022	2.011	1.990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.49	41.33	42.48	2.018	1.918	40.51	2.042	1.994	2.012	2.047
Stddev	.05	.09	.03	.010	.001	.01	.000	.001	.002	.006
%RSD	.1186	.2200	.0775	.4826	.0536	.0183	.0192	.0397	.0727	.3099
#1	40.43	41.43	42.51	2.008	1.917	40.52	2.042	1.994	2.013	2.044
#2	40.50	41.32	42.45	2.027	1.919	40.51	2.043	1.995	2.012	2.054
#3	40.53	41.25	42.47	2.018	1.919	40.50	2.043	1.994	2.010	2.043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0487	1.994	1.907	1.963	2.074	1.894	2.017
Stddev	.0003	.003	.003	.009	.003	.004	.002
%RSD	.6836	.1281	.1593	.4534	.1369	.1831	.1182
#1	.0490	1.995	1.910	1.954	2.071	1.896	2.017
#2	.0486	1.997	1.904	1.971	2.076	1.897	2.019
#3	.0484	1.992	1.907	1.964	2.075	1.890	2.014
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: ICV Acquired: 2/15/2017 9:28:16 Type: QC
Method: 60102007_041712(v543) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1785.5	5064.9	38788.	4339.5
Stddev	1.1	6.8	104.	3.3
%RSD	.05941	.13432	.26883	.07639
#1	1786.7	5064.1	38899.	4335.9
#2	1785.4	5058.5	38770.	4342.4
#3	1784.6	5072.1	38693.	4340.1

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Zoom In Zoom Out

Sample Name: ICB Acquired: 2/15/2017 9:36:33 Type: QC
Method: 60102007_041712(v543) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0004	.0005	.0000	.0000	.0065	.0000	-.0001	.0001	.0001
Stddev	.0002	.0036	.0005	.000	.0001	.0018	.0000	.0000	.0001	.0002
%RSD	229.3	807.6	99.09	1948.	296.0	27.23	331.5	12.61	166.6	203.8
#1	.0001	.0031	.0008	-.0001	.0001	.0063	.0000	-.0001	.0002	-.0001
#2	-.0001	-.0037	.0008	.0000	.0000	.0049	.0001	-.0001	.0001	.0003
#3	-.0002	.0019	-.0001	.0001	.0000	.0084	.0000	-.0001	.0000	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055	.0400	.0247	.0000	.0004	.0099	.0003	.0000	.0008	.0005
Stddev	.0025	.0258	.0212	.0000	.0000	.0051	.0002	.001	.0003	.0011
%RSD	44.84	64.50	85.71	25630.	8.367	51.21	59.71	6726.	38.01	240.6
#1	.0079	.0588	.0024	.0000	.0004	.0148	.0004	.0002	.0005	-.0005
#2	.0058	.0505	.0445	.0000	.0005	.0101	.0001	.0005	.0008	.0002
#3	.0030	.0106	.0273	.0000	.0004	.0047	.0005	-.0007	.0011	.0017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0005	.0002	.0002	.0002	.0000	.0000
Stddev	.0002	.0001	.0001	.0001	.0004	.0002	.000
%RSD	131.9	22.47	33.32	55.18	155.9	564.1	164.4
#1	.0002	.0006	.0002	.0003	.0002	-.0001	.0000
#2	.0004	.0006	.0003	.0001	.0006	.0001	.0000
#3	-.0001	.0004	.0001	.0002	-.0001	.0001	.0000
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: ICB Acquired: 2/15/2017 9:36:33 Type: QC
Method: 60102007_041712(v543) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1979.9	5214.5	40272.	4314.7
Stddev	6.0	6.0	180.	4.8
%RSD	.30409	.11461	.44704	.11071
#1	1973.5	5207.9	40150.	4319.1
#2	1980.5	5216.1	40479.	4309.6
#3	1985.5	5219.5	40187.	4315.3

Zoom In Zoom Out

Sample Name: CRIA Acquired: 2/15/2017 9:45:12 Type: QC
Method: 60102007_041712(v543) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0086	.2228	.0111	.2158	.0054	1.129	.0056	.0553	.0109	.0266
Stddev	.0002	.0123	.0004	.0007	.0001	.006	.0000	.0001	.0002	.0000
%RSD	2.518	5.535	3.810	.3429	1.543	.5110	.5978	.1187	2.285	.1258
#1	.0084	.2234	.0111	.2158	.0053	1.126	.0056	.0552	.0106	.0266
#2	.0088	.2102	.0106	.2166	.0054	1.135	.0055	.0553	.0111	.0266
#3	.0085	.2349	.0115	.2151	.0054	1.125	.0056	.0553	.0111	.0266
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3471	11.05	5.737	.0166	.0516	11.03	.0457	.0053	.0053	.0093
Stddev	.0041	.09	.031	.0000	.0002	.02	.0003	.0001	.0019	.0013
%RSD	1.186	.7955	.5390	.1693	.3687	.2163	.6815	2.061	35.81	14.04
#1	.3449	11.09	5.751	.0166	.0514	11.03	.0457	.0052	.0040	.0083
#2	.3519	11.12	5.759	.0165	.0518	11.05	.0453	.0053	.0075	.0088
#3	.3446	10.95	5.702	.0166	.0514	11.00	.0459	.0054	.0044	.0108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0078	.0549	.0103	.0106	.0101	.0511	.0234
Stddev	.0003	.0001	.0001	.0002	.0008	.0001	.0001
%RSD	3.364	.1016	.7907	1.468	8.079	.1419	.3096
#1	.0078	.0548	.0102	.0104	.0091	.0511	.0235
#2	.0076	.0549	.0104	.0107	.0107	.0510	.0233
#3	.0081	.0549	.0102	.0107	.0104	.0512	.0234
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CRIA Acquired: 2/15/2017 9:45:12 Type: QC
Method: 60102007_041712(v543) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1931.4	5175.7	39549.	4294.2
Stddev	4.6	12.6	170.	45.6
%RSD	.23611	.24335	.43103	1.0625
#1	1931.4	5189.1	39704.	4287.2
#2	1926.8	5164.1	39367.	4252.6
#3	1936.0	5174.0	39577.	4343.0

Zoom In Zoom Out

Sample Name: ICSA Acquired: 2/15/2017 9:50:51 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	497.1	.0010	-.0005	-.0001	470.9	.0000	-.0006	.0001
Stddev	.0004	4.6	.0006	.0001	.0000	6.0	.0001	.0001	.0004
%RSD	109.7	.9324	59.72	21.22	78.27	1.266	304.1	10.14	373.4
#1	.0003	501.8	.0007	-.0006	-.0001	477.6	-.0001	-.0006	.0002
#2	.0008	497.0	.0006	-.0004	-.0001	466.3	.0001	-.0005	-.0004
#3	.0000	492.6	.0017	-.0005	.0000	468.7	.0001	-.0006	.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	182.4	.1220	513.3	-.0008	-.0001	.1634	.0001	.0000
Stddev	.0006	.7	.0313	1.8	.0002	.0001	.0141	.0003	.0020
%RSD	1411.	.3666	25.62	.3505	20.11	129.7	8.620	462.1	5813.
#1	.0005	183.0	.1297	515.3	-.0010	-.0002	.1667	-.0002	-.0020
#2	-.0007	181.7	.0877	512.0	-.0008	-.0001	.1479	.0000	.0021
#3	.0003	182.6	.1488	512.4	-.0007	.0000	.1755	.0003	.0000
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0000	.0054	F.0031	-.0009	.0002	.0000	.0010	.0002
Stddev	.002	.0051	.0007	.0001	.0006	.0002	.002	.0000	.0001
%RSD	4721.	16320.	12.80	4.784	61.72	118.0	9429.	5.116	50.62
#1	-.0016	.0043	.0062	.0030	-.0016	.0004	.0017	.0009	.0003
#2	.0002	-.0057	.0053	.0030	-.0005	.0001	.0005	.0009	.0002
#3	.0013	.0015	.0048	.0032	-.0007	.0000	-.0023	.0010	.0001
Check ?	Chk Pass	Chk Pass	None	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.0010					
Low Limit				-.0010					

Zoom In Zoom Out

Sample Name: ICSA Acquired: 2/15/2017 9:50:51 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1581.7	4740.1	35473.	4241.7
Stddev	.9	5.3	68.	32.1
%RSD	.05520	.11137	.19271	.75592
#1	1582.7	4736.7	35552.	4205.3
#2	1581.4	4737.4	35437.	4253.8
#3	1581.0	4746.2	35430.	4265.9

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 2/15/2017 9:58:16 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9432	512.8	1.179	.5307	.5183	485.5	.9936	.4979	.5271	.5508
Stddev	.0054	4.4	.002	.0005	.0012	3.1	.0010	.0003	.0007	.0007
%RSD	.5695	.8530	.1613	.0903	.2263	.6320	.0959	.0520	.1285	.1220
#1	.9449	509.6	1.181	.5302	.5183	484.1	.9947	.4982	.5278	.5500
#2	.9474	517.8	1.180	.5308	.5172	483.4	.9932	.4977	.5270	.5513
#3	.9371	511.0	1.177	.5312	.5196	489.0	.9929	.4980	.5264	.5510
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	183.2	.1457	519.2	.5160	.9905	.2042	1.014	1.021	1.097	1.112
Stddev	.1	.0127	1.2	.0022	.0005	.0041	.001	.001	.003	.003
%RSD	.0349	8.737	.2340	.4199	.0504	2.014	.1364	.1218	.2377	.2826
#1	183.2	.1369	518.0	.5181	.9909	.2029	1.013	1.021	1.095	1.109
#2	183.1	.1398	519.1	.5162	.9908	.2008	1.015	1.020	1.100	1.110
#3	183.2	.1603	520.5	.5137	.9900	.2088	1.015	1.022	1.095	1.115
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0390	.9969	1.037	1.051	1.045	.4865	.9933
Stddev	.0006	.0017	.001	.003	.002	.0021	.0012
%RSD	1.622	.1659	.1147	.2955	.1901	.4395	.1243
#1	.0383	.9977	1.036	1.053	1.043	.4889	.9948
#2	.0392	.9950	1.038	1.051	1.047	.4860	.9927
#3	.0395	.9979	1.038	1.047	1.045	.4847	.9925
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 2/15/2017 9:58:16 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1539.5	4655.3	35011.	4123.2
Stddev	1.9	8.4	165.	27.6
%RSD	.12253	.17992	.47077	.66978
#1	1541.5	4646.2	34822.	4114.0
#2	1537.8	4662.7	35124.	4154.3
#3	1539.1	4656.9	35087.	4101.4

Zoom In Zoom Out

Sample Name: CCV Acquired: 2/15/2017 10:04:03 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2586	39.58	2.038	1.996	1.952	39.81	2.008	2.001	1.990	1.924
Stddev	.0017	.09	.005	.003	.003	.09	.002	.002	.004	.003
%RSD	.6441	.2308	.2694	.1557	.1318	.2176	.0922	.0762	.1801	.1644
#1	.2567	39.49	2.032	1.993	1.950	39.75	2.007	1.999	1.993	1.925
#2	.2592	39.67	2.041	1.999	1.955	39.91	2.010	2.002	1.986	1.920
#3	.2599	39.60	2.042	1.997	1.953	39.78	2.008	2.001	1.990	1.926
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.22	40.40	40.53	1.969	2.011	39.44	2.061	1.941	1.952	2.047
Stddev	.08	.12	.27	.007	.004	.05	.002	.005	.002	.004
%RSD	.2067	.2955	.6781	.3427	.2144	.1337	.1076	.2509	.0889	.1938
#1	39.13	40.38	40.55	1.962	2.007	39.38	2.058	1.947	1.953	2.045
#2	39.25	40.53	40.80	1.971	2.013	39.48	2.063	1.938	1.953	2.045
#3	39.28	40.29	40.25	1.975	2.015	39.47	2.062	1.939	1.950	2.052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.669	2.081	1.999	1.999	1.950	2.035	1.995
Stddev	.005	.003	.002	.005	.002	.001	.004
%RSD	.2948	.1505	.1207	.2483	.0928	.0712	.1787
#1	1.664	2.078	1.997	1.994	1.951	2.034	1.993
#2	1.670	2.084	1.999	2.003	1.948	2.036	1.999
#3	1.674	2.081	2.001	2.001	1.952	2.034	1.993
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 2/15/2017 10:04:03 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1786.8	5009.5	38593.	4308.9
Stddev	2.7	9.3	13.	35.8
%RSD	.15013	.18513	.03480	.83061
#1	1784.6	5015.9	38607.	4305.4
#2	1785.9	4998.8	38590.	4275.0
#3	1789.8	5013.8	38581.	4346.3

Zoom In Zoom Out

Sample Name: CCB Acquired: 2/15/2017 10:13:40 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	-.0034	.0003	-.0001	.0000	.0049	.0000	-.0001	.0001	.0002
Stddev	.0003	.0102	.0005	.0001	.0001	.0017	.0000	.0000	.0004	.0003
%RSD	76.99	304.5	148.6	202.8	564.2	35.51	11.99	61.72	453.8	181.6
#1	-.0004	-.0013	.0002	.0000	-.0001	.0060	.0000	-.0001	-.0004	-.0002
#2	-.0007	.0057	.0009	.0000	.0001	.0057	.0000	.0000	.0003	.0003
#3	-.0001	-.0145	-.0001	-.0002	.0000	.0029	.0000	.0000	.0004	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0104	.0028	-.0132	.0001	.0001	.0209	.0001	-.0004	.0012	-.0003
Stddev	.0037	.0259	.0123	.0000	.0001	.0085	.0001	.0004	.0009	.0014
%RSD	35.30	934.8	93.25	7.321	59.27	40.59	100.1	111.0	69.12	393.3
#1	.0106	-.0167	-.0259	.0001	.0001	.0111	.0000	-.0001	.0019	.0008
#2	.0066	.0322	-.0123	.0001	.0001	.0266	.0001	-.0009	.0016	-.0019
#3	.0139	-.0072	-.0014	.0001	.0000	.0248	.0003	-.0002	.0003	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0002	.0001	.0001	-.0004	.0000	.0002
Stddev	.0003	.0002	.0001	.0001	.0005	.0002	.0000
%RSD	1451.	108.8	89.06	83.34	131.6	1240.	20.89
#1	-.0003	.0000	.0003	.0002	-.0007	.0002	.0002
#2	.0004	.0002	.0001	.0001	-.0006	-.0002	.0002
#3	.0000	.0003	.0000	.0001	.0002	.0001	.0001
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: CCB Acquired: 2/15/2017 10:13:40 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1988.9	5201.7	40180.	4317.8
Stddev	1.4	2.8	37.	57.5
%RSD	.06798	.05346	.09293	1.3327
#1	1989.7	5200.0	40221.	4313.8
#2	1989.6	5200.1	40173.	4262.3
#3	1987.3	5204.9	40147.	4377.2

Zoom In Zoom Out

Sample Name: FA41039-3 Acquired: 2/15/2017 10:27:55 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	1.439	165.2	.0003	.0131	.0004	2.604	.0004	-.0013	.0291
Stddev	.008	.2	.0042	.0001	.0005	.008	.0002	.0002	.0020
%RSD	.5394	.0988	1290.	.5823	131.9	.3170	38.50	14.34	6.913
#1	1.445	165.4	-.0031	.0131	.0004	2.604	.0004	-.0011	.0305
#2	1.431	165.1	-.0009	.0130	.0009	2.612	.0003	-.0014	.0268
#3	1.443	165.1	.0050	.0131	-.0001	2.595	.0006	-.0015	.0299

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	3.029	49.47	33.38	.4629	.1135	-.0007	F792.1	.0123	.0191
Stddev	.004	.07	.19	.0105	.0004	.0008	1.1	.0012	.0011
%RSD	.1375	.1458	.5800	2.274	.3144	101.1	.1394	9.714	5.509
#1	3.024	49.45	33.44	.4701	.1138	-.0009	793.4	.0120	.0197
#2	3.032	49.55	33.16	.4678	.1132	.0001	791.3	.0135	.0198
#3	3.031	49.41	33.54	.4508	.1134	-.0014	791.7	.0112	.0179

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0030	-.0017	.4551	.0060	.0081	.0035	.0000	.0016	.6053
Stddev	.0020	.0101	.0023	.0010	.0004	.0004	.008	.0010	.0004
%RSD	66.95	606.9	.4954	16.76	5.536	10.01	25970.	58.66	.0591
#1	.0008	-.0059	.4575	.0069	.0085	.0033	-.0086	.0010	.6050
#2	.0036	.0098	.4530	.0063	.0076	.0034	.0029	.0027	.6057
#3	.0047	-.0089	.4550	.0049	.0082	.0039	.0056	.0012	.6053

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1812.2	5150.2	38783.	4334.1
Stddev	.1	2.7	13.	18.6
%RSD	.00423	.05240	.03450	.42987
#1	1812.2	5153.0	38782.	4354.3
#2	1812.2	5147.6	38769.	4317.6
#3	1812.3	5150.1	38796.	4330.4

Zoom In Zoom Out

Sample Name: FA40942-21 Acquired: 2/15/2017 10:32:02 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 50.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0375	220.6	.2881	1.240	.0035	621.8	.0541	.2707	8.981	149.4
Stddev	.0168	1.1	.0347	.018	.0019	2.7	.0025	.0047	.021	.3
%RSD	44.75	.5085	12.06	1.442	54.26	.4376	4.614	1.742	.2349	.2222
#1	.0545	221.2	.2825	1.233	.0028	623.0	.0528	.2653	8.995	149.1
#2	.0209	219.3	.3253	1.227	.0057	618.7	.0570	.2741	8.957	149.4
#3	.0373	221.3	.2565	1.261	.0021	623.7	.0525	.2727	8.990	149.7

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	574.6	23.31	41.58	7.105	.4897	6.299	7.303	34.12	1.012	.0192
Stddev	.6	3.43	1.06	.004	.0048	.431	.014	.05	.031	.0685
%RSD	.1077	14.69	2.542	.0631	.9885	6.847	.1851	.1341	3.029	357.8
#1	574.4	23.93	42.60	7.106	.4947	6.410	7.287	34.13	1.006	-.0270
#2	575.2	19.62	40.49	7.109	.4850	6.665	7.308	34.15	.9855	.0979
#3	574.0	26.38	41.65	7.100	.4895	5.824	7.313	34.07	1.046	-.0135

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	5.642	.8762	.7970	6.595	.0306	.9488	195.4
Stddev	.015	.0139	.0102	.025	.0038	.0051	.3
%RSD	.2705	1.584	1.281	.3796	12.39	.5345	.1494
#1	5.655	.8840	.8000	6.596	.0320	.9433	195.1
#2	5.647	.8602	.7856	6.569	.0334	.9499	195.4
#3	5.625	.8845	.8053	6.619	.0263	.9533	195.6

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1972.3	5249.6	40337.	4406.7
Stddev	1.9	10.7	189.	22.9
%RSD	.09700	.20402	.46832	.52010
#1	1971.0	5259.8	40168.	4396.4
#2	1974.5	5250.5	40541.	4433.0
#3	1971.4	5238.5	40302.	4390.8

Zoom In Zoom Out

Sample Name: FA40942-22 Acquired: 2/15/2017 10:36:07 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 50.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0366	170.3	.2410	1.462	-.0002	676.2	.0371	.2703	9.785	150.5
Stddev	.0061	.6	.0188	.010	.0015	1.2	.0026	.0023	.022	.6
%RSD	16.58	.3434	7.784	.6726	738.5	.1748	7.048	.8687	.2251	.4231
#1	.0393	169.7	.2295	1.453	.0014	675.2	.0384	.2715	9.763	149.8
#2	.0409	170.6	.2626	1.461	-.0016	677.5	.0341	.2676	9.807	151.1
#3	.0297	170.8	.2307	1.473	-.0004	675.9	.0388	.2718	9.784	150.5

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	600.1	21.97	41.07	6.737	3.215	4.873	6.869	10.18	.0048	.0404
Stddev	1.2	1.38	.89	.014	.009	.226	.012	.03	.0442	.0238
%RSD	.1966	6.268	2.157	.2103	.2913	4.641	.1668	.3296	926.5	58.96
#1	598.8	20.92	41.44	6.738	3.204	5.097	6.861	10.14	.0105	.0153
#2	600.9	23.53	41.72	6.751	3.216	4.876	6.864	10.18	-.0420	.0626
#3	600.7	21.46	40.06	6.723	3.223	4.645	6.882	10.21	.0459	.0432

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.983	1.206	.8211	6.316	.0034	1.975	160.7
Stddev	.006	.010	.0059	.017	.0160	.011	.4
%RSD	.2886	.8155	.7229	.2607	473.9	.5380	.2585
#1	1.977	1.214	.8194	6.300	-.0122	1.988	160.8
#2	1.985	1.208	.8277	6.333	.0027	1.969	160.3
#3	1.988	1.195	.8162	6.316	.0197	1.970	161.1

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1973.1	5247.5	40376.	4365.8
Stddev	1.7	7.1	104.	14.7
%RSD	.08672	.13570	.25777	.33760
#1	1971.7	5247.2	40287.	4382.9
#2	1975.0	5254.7	40350.	4357.6
#3	1972.7	5240.5	40491.	4357.0

Zoom In Zoom Out

Sample Name: FA40942-23 Acquired: 2/15/2017 10:40:12 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 50.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0271	201.3	.2194	1.541	.0030	854.5	.0473	.2220	11.04
Stddev	.0164	.8	.0220	.008	.0027	2.1	.0027	.0049	.05
%RSD	60.53	.3975	10.03	.5410	88.57	.2500	5.640	2.228	.4482
#1	.0237	200.9	.2381	1.532	.0061	854.8	.0470	.2260	11.08
#2	.0127	200.8	.2251	1.547	.0011	852.2	.0448	.2165	11.05
#3	.0449	202.2	.1952	1.546	.0019	856.4	.0501	.2234	10.98

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	176.4	440.5	23.44	49.13	6.315	.3051	7.730	9.517	9.675
Stddev	.1	.8	1.21	.76	.007	.0051	.361	.009	.027
%RSD	.0774	.1810	5.163	1.538	.1062	1.669	4.668	.0908	.2759
#1	176.4	439.6	22.92	48.39	6.322	.3018	7.941	9.509	9.645
#2	176.6	441.2	24.82	49.10	6.315	.3110	7.314	9.526	9.698
#3	176.3	440.6	22.57	49.90	6.308	.3027	7.936	9.515	9.681

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0445	.0238	3.360	1.026	1.044	7.783	.0386	1.048	F223.7
Stddev	.0591	.0566	.024	.004	.004	.004	.0188	.015	.2
%RSD	132.7	237.6	.7102	.4187	.4197	.0575	48.85	1.385	.1110
#1	-.0079	-.0346	3.346	1.021	1.046	7.782	.0588	1.062	223.6
#2	-.1127	.0278	3.387	1.028	1.039	7.779	.0353	1.048	223.6
#3	-.0130	.0784	3.346	1.029	1.048	7.788	.0216	1.033	224.0

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1955.7	5227.6	40242.	4375.8
Stddev	3.0	8.2	232.	17.9
%RSD	.15347	.15730	.57636	.40870
#1	1955.1	5227.1	40071.	4367.7
#2	1958.9	5236.1	40150.	4396.3
#3	1953.0	5219.6	40506.	4363.4

Zoom In Zoom Out

Sample Name: FA40942-24 Acquired: 2/15/2017 10:44:16 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 50.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0432	187.6	.2605	1.271	-.0021	813.6	.0486	1.0000	11.70
Stddev	.0083	.6	.0299	.016	.0067	1.5	.0020	.0057	.02
%RSD	19.21	.2976	11.46	1.247	312.9	.1815	4.122	.5721	.1960
#1	.0464	188.2	.2834	1.259	-.0089	814.4	.0463	.9979	11.68
#2	.0494	187.6	.2714	1.266	-.0020	814.5	.0494	1.006	11.72
#3	.0338	187.1	.2267	1.289	.0045	811.9	.0501	.9956	11.69

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	F274.2	641.8	19.04	42.68	6.900	1.823	4.362	8.277	11.48
Stddev	.5	2.2	1.14	.48	.032	.005	.177	.034	.02
%RSD	.1854	.3409	5.965	1.127	.4592	.2516	4.066	.4098	.1998
#1	273.6	643.0	18.29	43.07	6.889	1.818	4.495	8.287	11.49
#2	274.4	639.2	20.35	42.82	6.936	1.823	4.161	8.304	11.48
#3	274.5	643.0	18.48	42.14	6.875	1.827	4.431	8.239	11.45

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0235	.0069	1.989	1.213	.9986	6.619	.0512	1.679	F209.5
Stddev	.0313	.0710	.020	.011	.0066	.038	.0234	.009	.3
%RSD	133.6	1025.	.9860	.9071	.6631	.5774	45.79	.5304	.1466
#1	-.0111	.0652	1.990	1.222	1.001	6.622	.0297	1.680	209.1
#2	.0313	.0277	2.009	1.201	1.004	6.655	.0762	1.688	209.5
#3	.0501	-.0721	1.969	1.218	.9912	6.579	.0477	1.670	209.8

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1963.0	5259.5	40244.	4376.9
Stddev	4.1	7.1	300.	35.5
%RSD	.20739	.13542	.74479	.81173
#1	1967.7	5267.7	40194.	4416.3
#2	1960.8	5255.8	39973.	4347.4
#3	1960.4	5255.0	40566.	4367.1

Zoom In Zoom Out

Sample Name: FA40942-25 Acquired: 2/15/2017 10:48:21 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 10.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0206	157.5	.1891	.9222	.0035	620.0	.0230	.1272	1.946
Stddev	.0025	.5	.0027	.0046	.0006	.8	.0005	.0004	.005
%RSD	12.02	.3216	1.436	.4983	17.88	.1294	2.257	.2938	.2490
#1	.0225	157.0	.1870	.9181	.0041	619.1	.0236	.1274	1.950
#2	.0178	158.0	.1883	.9272	.0036	620.6	.0228	.1268	1.948
#3	.0214	157.5	.1922	.9213	.0028	620.3	.0226	.1274	1.941

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	F55.69	472.3	21.68	38.28	6.018	.1600	3.976	2.055	3.958
Stddev	.08	1.5	.56	.61	.027	.0013	.075	.002	.006
%RSD	.1495	.3157	2.571	1.601	.4429	.7931	1.893	.1083	.1516
#1	55.72	470.9	21.40	38.02	6.046	.1604	3.893	2.056	3.953
#2	55.60	472.2	22.32	37.83	5.992	.1586	3.993	2.057	3.955
#3	55.76	473.9	21.32	38.98	6.017	.1610	4.041	2.053	3.964

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0277	.0206	5.180	.4133	.7593	6.984	.0100	.9424	F68.00
Stddev	.0042	.0259	.015	.0046	.0021	.023	.0038	.0011	.14
%RSD	15.02	125.6	.2943	1.107	.2828	.3331	38.32	.1191	.2092
#1	.0229	-.0041	5.164	.4086	.7568	7.011	.0082	.9417	68.01
#2	.0304	.0476	5.180	.4134	.7603	6.971	.0074	.9437	67.85
#3	.0297	.0183	5.195	.4178	.7608	6.970	.0144	.9418	68.13

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1889.1	5256.9	40210.	4416.0
Stddev	1.7	10.9	113.	5.2
%RSD	.08970	.20644	.28110	.11744
#1	1889.7	5263.0	40081.	4410.8
#2	1890.4	5263.3	40290.	4421.1
#3	1887.2	5244.4	40260.	4416.3

Zoom In Zoom Out

Sample Name: FA40942-26 Acquired: 2/15/2017 10:52:26 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 20.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0257	130.1	.1426	.7703	.0021	494.3	.0277	.1648	3.219
Stddev	.0104	.4	.0071	.0035	.0013	2.3	.0007	.0022	.016
%RSD	40.70	.3292	4.965	.4589	62.07	.4593	2.657	1.318	.5020
#1	.0199	130.1	.1499	.7674	.0017	495.6	.0271	.1672	3.229
#2	.0194	129.6	.1358	.7742	.0011	491.7	.0286	.1632	3.200
#3	.0377	130.5	.1421	.7693	.0036	495.6	.0275	.1638	3.227

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	F88.50	371.4	15.36	30.62	5.375	.6719	2.372	3.271	4.675
Stddev	.05	2.3	.14	.16	.005	.0044	.112	.002	.013
%RSD	.0513	.6302	.9098	.5230	.0944	.6566	4.733	.0618	.2763
#1	88.55	372.3	15.32	30.65	5.380	.6669	2.403	3.271	4.664
#2	88.48	368.7	15.52	30.45	5.376	.6738	2.247	3.268	4.671
#3	88.47	373.2	15.25	30.76	5.370	.6751	2.465	3.272	4.689

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0303	.0092	1.748	.7083	.6137	6.168	.0140	.9461	F82.28
Stddev	.0222	.0186	.017	.0017	.0047	.017	.0010	.0030	.16
%RSD	73.32	203.1	.9600	.2346	.7599	.2783	7.429	.3130	.1999
#1	.0075	.0213	1.763	.7078	.6141	6.188	.0128	.9427	82.24
#2	.0519	-.0123	1.751	.7101	.6089	6.156	.0141	.9476	82.46
#3	.0314	.0184	1.730	.7069	.6182	6.161	.0149	.9480	82.14

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1943.4	5261.3	40184.	4351.6
Stddev	6.7	17.2	104.	23.8
%RSD	.34698	.32652	.25889	.54605
#1	1941.3	5260.6	40279.	4349.0
#2	1938.0	5244.5	40073.	4376.6
#3	1951.0	5278.9	40202.	4329.3

Zoom In Zoom Out

Sample Name: FA40942-27 Acquired: 2/15/2017 10:56:29 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 100.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0708	296.7	.3511	1.599	-.0035	962.0	.0680	.1594	13.60
Stddev	.0348	2.5	.0629	.028	.0078	3.5	.0053	.0066	.05
%RSD	49.15	.8345	17.93	1.759	220.5	.3654	7.855	4.118	.3534
#1	.1110	299.5	.3402	1.571	-.0048	965.7	.0729	.1607	13.55
#2	.0500	295.0	.4188	1.627	.0048	958.7	.0689	.1651	13.62
#3	.0515	295.5	.2943	1.598	-.0106	961.6	.0623	.1522	13.64

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	F797.8	608.4	20.49	47.51	7.011	.2330	6.162	2.768	32.29
Stddev	.9	1.0	1.08	3.38	.011	.0160	.462	.009	.07
%RSD	.1090	.1570	5.280	7.107	.1532	6.853	7.500	.3276	.2059
#1	797.0	609.2	21.47	50.78	7.014	.2514	6.695	2.765	32.21
#2	798.7	607.3	19.33	44.04	7.020	.2241	5.883	2.778	32.34
#3	797.7	608.7	20.68	47.70	6.999	.2235	5.908	2.761	32.31

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0549	.0690	2.118	3.222	1.327	7.263	-.0353	1.007	F752.3
Stddev	.0484	.1595	.027	.016	.014	.016	.0738	.021	1.2
%RSD	88.04	231.3	1.265	.4811	1.030	.2153	208.7	2.069	.1625
#1	.0887	.1791	2.149	3.206	1.336	7.253	.0274	.9916	751.1
#2	.0766	-.1139	2.105	3.237	1.311	7.281	-.0168	.9988	752.4
#3	-.0005	.1417	2.101	3.222	1.333	7.255	-.1166	1.031	753.5

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1962.6	5228.1	40119.	4367.5
Stddev	1.8	8.2	212.	70.6
%RSD	.09195	.15637	.52774	1.6175
#1	1964.3	5233.8	40223.	4297.8
#2	1962.8	5231.8	39876.	4439.0
#3	1960.7	5218.7	40260.	4365.8

Zoom In Zoom Out

Sample Name: FA40942-28 Acquired: 2/15/2017 11:00:35 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 100.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0670	269.7	.2854	1.307	-.0010	963.2	.0659	.1040	14.79
Stddev	.0179	1.4	.0382	.022	.0096	.5	.0038	.0022	.06
%RSD	26.75	.5294	13.38	1.702	963.6	.0521	5.768	2.101	.3736
#1	.0575	269.1	.3203	1.326	-.0086	962.8	.0666	.1061	14.84
#2	.0558	268.7	.2446	1.282	.0098	963.8	.0694	.1042	14.73
#3	.0877	271.3	.2911	1.312	-.0043	963.1	.0618	.1018	14.79

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	F452.4	351.5	19.88	41.57	5.350	.1610	7.126	2.468	22.87
Stddev	1.2	.3	.09	.47	.033	.0148	1.034	.009	.06
%RSD	.2729	.0876	.4649	1.142	.6098	9.186	14.50	.3474	.2494
#1	451.6	351.4	19.95	41.53	5.354	.1573	6.224	2.466	22.93
#2	451.9	351.3	19.90	41.11	5.316	.1773	8.254	2.461	22.88
#3	453.9	351.9	19.77	42.06	5.381	.1484	6.900	2.478	22.81

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0011	-.1186	1.642	1.734	1.067	6.008	-.0355	.8957	F523.0
Stddev	.1011	.0580	.057	.019	.010	.017	.0426	.0214	.8
%RSD	9498.	48.88	3.469	1.083	.9027	.2888	120.1	2.390	.1553
#1	.0801	-.0951	1.655	1.728	1.070	5.995	.0111	.8747	522.1
#2	.0311	-.1846	1.579	1.755	1.075	6.001	-.0726	.9175	523.0
#3	-.1144	-.0761	1.690	1.719	1.056	6.028	-.0450	.8948	523.8

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1957.5	5230.3	39848.	4323.2
Stddev	3.4	12.5	129.	21.7
%RSD	.17614	.23986	.32468	.50261
#1	1960.4	5240.5	39924.	4334.7
#2	1958.5	5233.9	39920.	4298.1
#3	1953.7	5216.3	39698.	4336.7

Zoom In Zoom Out

Sample Name: CCV Acquired: 2/15/2017 11:04:41 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2617	40.09	2.000	2.024	1.996	40.31	2.024	2.016	2.023	1.993
Stddev	.0013	.04	.003	.004	.004	.12	.001	.002	.006	.002
%RSD	.4974	.1038	.1331	.1721	.2056	.2998	.0376	.0900	.3119	.1087
#1	.2603	40.07	1.997	2.028	1.998	40.31	2.024	2.015	2.026	1.991
#2	.2628	40.14	2.003	2.022	1.999	40.42	2.025	2.016	2.016	1.993
#3	.2621	40.07	2.001	2.021	1.991	40.18	2.025	2.018	2.028	1.995
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.26	40.30	40.55	2.055	2.052	40.04	2.032	2.000	1.995	2.023
Stddev	.00	.18	.20	.005	.003	.06	.001	.003	.002	.003
%RSD	.0113	.4403	.4991	.2560	.1452	.1621	.0590	.1610	.1170	.1684
#1	40.25	40.19	40.36	2.057	2.050	40.08	2.031	1.996	1.998	2.019
#2	40.26	40.51	40.76	2.049	2.051	40.07	2.033	2.000	1.993	2.025
#3	40.26	40.22	40.52	2.059	2.055	39.96	2.033	2.003	1.994	2.025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.636	2.074	2.043	2.074	2.011	2.056	2.023
Stddev	.000	.002	.006	.001	.010	.005	.002
%RSD	.0208	.0794	.2934	.0524	.5091	.2344	.1193
#1	1.636	2.073	2.048	2.074	2.001	2.060	2.021
#2	1.636	2.075	2.046	2.073	2.011	2.051	2.024
#3	1.637	2.072	2.037	2.075	2.021	2.057	2.026
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 2/15/2017 11:04:41 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1755.4	5004.7	38054.	4268.0
Stddev	2.6	2.6	210.	28.6
%RSD	.14654	.05096	.55085	.66947
#1	1757.7	5001.8	37951.	4300.3
#2	1755.8	5005.9	38295.	4246.0
#3	1752.6	5006.5	37916.	4257.8

Zoom In Zoom Out

Sample Name: CCB Acquired: 2/15/2017 11:08:37 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0020	.0010	.0002	.0001	.0082	.0001	-.0001	.0002
Stddev	.0003	.0111	.0007	.0003	.0001	.0027	.0000	.0001	.0002
%RSD	354.4	542.5	73.59	216.5	34.55	33.10	28.34	108.9	103.2
#1	-.0002	.0093	.0018	.0005	.0002	.0086	.0001	.0000	.0004
#2	.0001	-.0025	.0009	-.0001	.0002	.0107	.0001	.0000	.0002
#3	.0004	-.0129	.0004	.0001	.0001	.0053	.0001	-.0001	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0165	.0132	.0060	.0001	F.0012	.0372	.0003	-.0004
Stddev	.0001	.0053	.0064	.0066	.0000	.0004	.0017	.0001	.0006
%RSD	56.40	32.27	48.34	110.1	7.589	31.60	4.647	30.85	148.0
#1	.0004	.0221	.0123	.0105	.0001	.0017	.0353	.0002	-.0011
#2	.0001	.0115	.0073	.0090	.0001	.0011	.0377	.0004	.0001
#3	.0003	.0158	.0200	-.0016	.0001	.0009	.0386	.0003	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	-.0008	.0001	.0003	.0003	.0004	.0004	-.0001	.0003
Stddev	.0009	.0014	.0002	.0001	.0000	.0001	.0006	.0000	.0000
%RSD	149.6	178.7	178.2	30.65	6.742	14.91	150.3	59.28	13.17
#1	-.0004	-.0004	.0001	.0003	.0003	.0005	.0003	.0000	.0004
#2	.0008	.0004	.0002	.0004	.0003	.0004	.0010	-.0001	.0003
#3	.0013	-.0024	-.0001	.0002	.0003	.0004	-.0001	-.0001	.0003
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 2/15/2017 11:08:37 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1967.9	5222.8	39620.	4281.0
Stddev	4.4	14.3	49.	20.3
%RSD	.22329	.27437	.12324	.47478
#1	1972.7	5235.7	39665.	4262.8
#2	1967.0	5207.4	39568.	4303.0
#3	1964.0	5225.3	39627.	4277.4

Zoom In Zoom Out

Sample Name: FA40942-29 Acquired: 2/15/2017 11:12:52 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 20.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0200	148.5	.1744	1.328	.0028	563.6	.0240	.0846	6.986
Stddev	.0054	.3	.0190	.004	.0012	1.3	.0011	.0005	.004
%RSD	26.96	.2179	10.91	.2899	44.65	.2267	4.751	.5467	.0588
#1	.0183	148.9	.1941	1.329	.0019	564.8	.0240	.0844	6.982
#2	.0157	148.4	.1731	1.323	.0022	563.8	.0229	.0843	6.990
#3	.0261	148.3	.1561	1.331	.0042	562.3	.0252	.0852	6.986

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	F108.4	288.7	17.36	37.25	4.673	.0508	2.877	3.693	6.845
Stddev	.3	1.0	.26	.05	.032	.0012	.043	.026	.028
%RSD	.2844	.3350	1.514	.1291	.6754	2.271	1.495	.7112	.4148
#1	108.4	288.8	17.58	37.31	4.679	.0501	2.827	3.665	6.852
#2	108.6	289.6	17.07	37.24	4.701	.0501	2.898	3.695	6.869
#3	108.0	287.6	17.41	37.21	4.639	.0521	2.905	3.718	6.813

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0012	.0383	1.914	1.209	.6885	6.668	.0306	.8557	F104.0
Stddev	.0239	.0289	.022	.009	.0019	.036	.0314	.0009	.1
%RSD	1987.	75.42	1.169	.7220	.2704	.5378	102.6	.1091	.0983
#1	-.0186	.0281	1.905	1.205	.6891	6.676	.0244	.8558	103.9
#2	-.0111	.0160	1.897	1.202	.6900	6.700	.0028	.8565	104.0
#3	.0261	.0710	1.939	1.219	.6864	6.629	.0646	.8547	104.0

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1953.2	5268.6	40657.	4481.5
Stddev	1.3	13.8	243.	27.8
%RSD	.06804	.26158	.59687	.62118
#1	1953.0	5283.9	40933.	4449.7
#2	1952.0	5257.1	40562.	4493.3
#3	1954.6	5264.9	40477.	4501.5

Zoom In Zoom Out

Sample Name: FA40942-30 Acquired: 2/15/2017 11:16:56 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 125.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.2733	226.9	.2632	1.037	-.0033	448.9	.0684	.1122	9.015
Stddev	.0212	.7	.1111	.014	.0089	.8	.0039	.0035	.077
%RSD	7.756	.3063	42.19	1.388	269.5	.1684	5.741	3.148	.8581
#1	.2657	226.1	.2982	1.051	-.0109	448.1	.0687	.1142	9.021
#2	.2973	227.1	.3526	1.022	-.0054	449.6	.0721	.1144	8.935
#3	.2570	227.5	.1389	1.037	.0064	449.0	.0643	.1082	9.090

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	F999.8	318.3	16.06	33.75	5.041	.0698	5.233	5.366	31.39
Stddev	2.9	.9	2.03	1.75	.036	.0048	.201	.040	.09
%RSD	.2871	.2976	12.66	5.191	.7094	6.850	3.843	.7420	.3018
#1	996.5	319.3	14.75	33.34	5.035	.0678	5.458	5.391	31.50
#2	1001.	317.4	18.40	32.25	5.008	.0753	5.173	5.387	31.34
#3	1002.	318.3	15.03	35.68	5.079	.0664	5.070	5.320	31.34

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1255	-.1186	1.993	9.606	.6283	5.331	-.0261	.6936	F652.0
Stddev	.0898	.2095	.030	.036	.0029	.026	.0912	.0177	.7
%RSD	71.61	176.6	1.533	.3753	.4652	.4971	348.7	2.554	.1100
#1	.1074	-.2561	2.001	9.580	.6251	5.307	.0026	.6829	651.2
#2	.2229	-.2223	1.959	9.647	.6291	5.327	.0472	.7141	652.7
#3	.0460	.1225	2.018	9.590	.6308	5.359	-.1282	.6839	651.9

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1963.4	5204.5	40147.	4351.8
Stddev	1.7	9.2	95.	6.2
%RSD	.08668	.17649	.23613	.14247
#1	1961.5	5210.9	40112.	4349.0
#2	1964.8	5193.9	40254.	4347.4
#3	1963.8	5208.6	40074.	4358.9

Zoom In Zoom Out

Sample Name: FA40942-31 Acquired: 2/15/2017 11:21:03 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 50.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0377	173.0	.2323	.9828	.0037	686.4	.0835	.1052	1.590
Stddev	.0141	.3	.0343	.0071	.0012	2.9	.0013	.0024	.011
%RSD	37.45	.1653	14.77	.7250	31.59	.4164	1.549	2.280	.6816
#1	.0541	172.8	.2172	.9825	.0030	689.4	.0822	.1037	1.578
#2	.0297	173.4	.2082	.9901	.0031	683.7	.0848	.1039	1.595
#3	.0295	172.9	.2716	.9759	.0051	686.2	.0836	.1079	1.598

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	F273.2	313.4	21.57	36.93	5.049	.0323	4.075	2.860	11.13
Stddev	.2	.5	1.80	.20	.018	.0086	.185	.016	.04
%RSD	.0853	.1656	8.338	.5356	.3602	26.81	4.550	.5554	.4003
#1	273.1	313.8	20.14	37.16	5.051	.0342	4.257	2.844	11.18
#2	273.4	313.5	20.99	36.84	5.029	.0398	4.083	2.861	11.12
#3	273.0	312.8	23.59	36.80	5.065	.0228	3.886	2.875	11.10

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0409	.0161	6.135	1.963	.8964	6.807	.0277	.8861	F223.6
Stddev	.0604	.0841	.030	.020	.0039	.005	.0359	.0055	.4
%RSD	147.6	520.8	.4846	.9993	.4354	.0801	129.7	.6231	.1888
#1	-.0193	.0897	6.106	1.983	.9009	6.812	.0636	.8921	223.2
#2	.1015	.0343	6.134	1.944	.8944	6.801	-.0082	.8812	223.6
#3	.0406	-.0755	6.166	1.960	.8939	6.808	.0277	.8850	224.1

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1963.7	5257.5	40131.	4418.2
Stddev	3.2	11.6	99.	21.4
%RSD	.16273	.22111	.24709	.48364
#1	1966.1	5269.0	40232.	4404.1
#2	1964.9	5257.8	40127.	4442.8
#3	1960.1	5245.7	40033.	4407.8

Zoom In Zoom Out

Sample Name: FA40942-32 Acquired: 2/15/2017 11:25:09 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 20.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0120	128.6	.1597	.7134	.0028	454.3	.0349	.0939	2.641
Stddev	.0046	.4	.0023	.0098	.0011	1.2	.0018	.0026	.018
%RSD	38.12	.3327	1.416	1.379	37.45	.2677	5.035	2.780	.7020
#1	.0118	129.0	.1620	.7085	.0039	455.4	.0357	.0911	2.633
#2	.0167	128.8	.1575	.7247	.0018	454.5	.0361	.0963	2.628
#3	.0076	128.2	.1597	.7069	.0028	453.0	.0329	.0942	2.662

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	F81.75	352.0	14.55	26.98	5.153	.0807	2.455	3.371	4.484
Stddev	.09	.4	.07	.22	.023	.0030	.095	.004	.012
%RSD	.1107	.1125	.4741	.8016	.4376	3.716	3.858	.1347	.2616
#1	81.66	352.3	14.61	26.74	5.157	.0778	2.523	3.366	4.487
#2	81.74	352.2	14.56	27.03	5.129	.0838	2.347	3.372	4.495
#3	81.84	351.6	14.48	27.16	5.174	.0806	2.496	3.375	4.472

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0014	.0408	1.983	.3485	.5752	4.815	.0069	.5789	F84.62
Stddev	.0101	.0226	.006	.0041	.0015	.021	.0125	.0023	.13
%RSD	712.6	55.51	.2925	1.165	.2686	.4329	181.2	.3986	.1578
#1	.0068	.0148	1.988	.3438	.5770	4.817	.0022	.5815	84.62
#2	.0077	.0517	1.977	.3510	.5743	4.794	.0210	.5773	84.49
#3	-.0102	.0559	1.985	.3506	.5742	4.835	-.0025	.5778	84.76

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1933.6	5244.7	39715.	4376.5
Stddev	1.4	9.4	104.	16.8
%RSD	.07185	.17848	.26210	.38314
#1	1932.8	5244.1	39613.	4380.8
#2	1935.2	5254.4	39821.	4390.8
#3	1932.8	5235.7	39712.	4358.1

Zoom In Zoom Out

Sample Name: FA40942-33 Acquired: 2/15/2017 11:29:14 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 50.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0575	335.7	.2972	1.732	.0088	913.9	.0797	.1203	6.442
Stddev	.0157	1.5	.0193	.016	.0025	4.7	.0017	.0057	.045
%RSD	27.21	.4335	6.490	.9154	28.28	.5102	2.145	4.753	.7009
#1	.0537	334.8	.2759	1.715	.0106	910.3	.0792	.1269	6.424
#2	.0748	334.9	.3135	1.747	.0098	912.2	.0783	.1172	6.408
#3	.0442	337.4	.3021	1.734	.0059	919.1	.0816	.1168	6.493

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	F400.9	421.4	17.43	45.62	7.749	.1491	5.700	4.938	24.63
Stddev	.7	.9	1.84	.43	.007	.0016	.466	.003	.04
%RSD	.1798	.2204	10.58	.9449	.0846	1.093	8.181	.0535	.1748
#1	400.7	420.4	16.17	45.16	7.756	.1489	5.166	4.940	24.60
#2	400.3	421.5	16.57	46.01	7.745	.1509	5.911	4.935	24.68
#3	401.7	422.2	19.55	45.71	7.745	.1476	6.025	4.939	24.62

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0244	-.0586	1.682	2.309	1.277	7.986	.0194	.9257	F490.7
Stddev	.0478	.0926	.040	.021	.005	.023	.0346	.0051	.7
%RSD	196.1	158.0	2.380	.9078	.4195	.2860	178.2	.5557	.1498
#1	.0411	-.1654	1.683	2.316	1.279	7.990	.0222	.9210	490.3
#2	.0616	-.0088	1.722	2.286	1.271	7.962	-.0165	.9247	490.3
#3	-.0296	-.0016	1.642	2.326	1.282	8.007	.0526	.9312	491.6

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1942.6	5249.5	39771.	4358.3
Stddev	3.6	8.7	194.	51.6
%RSD	.18478	.16552	.48802	1.1848
#1	1946.2	5254.8	39671.	4351.5
#2	1942.7	5254.1	39995.	4413.0
#3	1939.0	5239.4	39648.	4310.4

Zoom In Zoom Out

Sample Name: FA40942-34 Acquired: 2/15/2017 11:33:19 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 100.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.1037	305.7	.3800	1.381	.0068	1126.	.0946	.1299	3.900
Stddev	.0222	1.2	.0491	.022	.0025	4.	.0031	.0060	.013
%RSD	21.37	.3916	12.93	1.569	37.20	.3443	3.297	4.645	.3250
#1	.0834	306.6	.4034	1.378	.0042	1130.	.0910	.1254	3.914
#2	.1003	304.4	.3235	1.404	.0092	1122.	.0966	.1368	3.890
#3	.1273	306.3	.4131	1.361	.0070	1127.	.0962	.1276	3.894

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	F837.8	458.8	22.49	56.75	6.378	.3213	7.870	3.313	34.72
Stddev	.7	1.3	1.07	2.52	.009	.0023	1.134	.016	.08
%RSD	.0814	.2938	4.759	4.434	.1397	.7153	14.41	.4884	.2365
#1	837.6	459.2	21.35	53.92	6.370	.3233	7.254	3.332	34.75
#2	837.2	457.3	23.48	57.62	6.387	.3219	9.179	3.303	34.63
#3	838.5	459.9	22.65	58.72	6.377	.3188	7.177	3.304	34.78

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.2116	-.0791	2.119	5.652	1.447	8.315	.0550	1.179	F671.7
Stddev	.1597	.1358	.057	.019	.020	.017	.0771	.026	.7
%RSD	75.47	171.6	2.708	.3358	1.352	.1985	140.3	2.240	.1072
#1	.2548	.0046	2.142	5.664	1.445	8.334	-.0170	1.199	670.9
#2	.0348	-.2357	2.161	5.661	1.428	8.305	.1364	1.190	672.2
#3	.3453	-.0062	2.054	5.630	1.467	8.306	.0455	1.149	672.0

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1949.4	5232.1	39882.	4366.1
Stddev	3.1	5.3	75.	45.1
%RSD	.15868	.10178	.18777	1.0329
#1	1950.6	5236.8	39795.	4386.7
#2	1945.8	5226.3	39927.	4397.2
#3	1951.6	5233.1	39923.	4314.3

Zoom In Zoom Out

Sample Name: FA40942-35 Acquired: 2/15/2017 11:37:26 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 50.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0470	379.2	.1781	1.268	.0003	648.1	.0544	.1069	6.561
Stddev	.0217	1.1	.0514	.018	.0015	.4	.0022	.0017	.002
%RSD	46.27	.3011	28.84	1.376	557.2	.0613	4.060	1.589	.0317
#1	.0330	378.8	.1512	1.249	-.0007	647.7	.0552	.1049	6.564
#2	.0359	378.4	.2373	1.282	.0020	648.3	.0519	.1076	6.560
#3	.0720	380.5	.1457	1.275	-.0005	648.4	.0561	.1081	6.560

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	F213.3	348.5	21.05	35.40	6.377	.1010	4.506	2.165	15.11
Stddev	.4	.7	.66	.66	.021	.0050	.801	.016	.02
%RSD	.1752	.2148	3.155	1.874	.3310	4.995	17.77	.7382	.1629
#1	213.7	348.1	21.08	36.16	6.385	.0986	4.776	2.170	15.13
#2	213.1	349.4	20.37	34.95	6.393	.0975	3.605	2.147	15.11
#3	213.1	348.1	21.69	35.10	6.353	.1068	5.137	2.177	15.08

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0260	.0084	2.007	1.557	.8167	7.094	.0030	.9244	F273.5
Stddev	.0093	.0859	.015	.013	.0032	.021	.0197	.0162	.3
%RSD	35.56	1018.	.7286	.8615	.3941	.2894	658.1	1.751	.1142
#1	.0234	.0482	1.999	1.551	.8132	7.115	-.0022	.9058	273.3
#2	.0363	.0672	1.998	1.548	.8176	7.092	.0247	.9354	273.4
#3	.0183	-.0901	2.024	1.572	.8194	7.074	-.0136	.9319	273.9

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1955.6	5270.6	40099.	4357.2
Stddev	.2	7.5	189.	2.2
%RSD	.01125	.14252	.47257	.05020
#1	1955.8	5272.7	40307.	4358.8
#2	1955.4	5276.8	39937.	4358.1
#3	1955.6	5262.3	40052.	4354.7

Zoom In Zoom Out

Sample Name: FA40942-36 Acquired: 2/15/2017 11:41:33 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 100.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0663	229.6	.3365	1.497	.0039	966.5	.0789	.1109	5.570
Stddev	.0212	.9	.0946	.015	.0043	.9	.0090	.0033	.027
%RSD	31.98	.3821	28.12	1.028	110.5	.0882	11.46	2.990	.4869
#1	.0526	228.6	.4179	1.494	.0027	966.9	.0877	.1104	5.597
#2	.0907	230.3	.3590	1.514	.0003	967.0	.0792	.1144	5.570
#3	.0556	229.9	.2327	1.484	.0086	965.5	.0696	.1079	5.543

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	F682.7	371.1	18.02	55.72	5.918	.0702	7.140	3.000	35.33
Stddev	1.1	.2	1.69	1.36	.008	.0062	.420	.024	.25
%RSD	.1651	.0559	9.401	2.443	.1404	8.877	5.888	.8001	.7088
#1	682.9	370.9	19.49	54.79	5.913	.0770	7.515	2.976	35.62
#2	681.5	371.3	18.40	55.08	5.927	.0647	7.218	3.024	35.15
#3	683.8	371.1	16.16	57.28	5.913	.0689	6.685	3.001	35.23

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0991	-.0107	3.108	2.848	1.272	7.656	-.0084	1.013	F739.6
Stddev	.1296	.1496	.107	.027	.005	.044	.0347	.015	1.1
%RSD	130.9	1392.	3.451	.9587	.4236	.5797	411.9	1.472	.1553
#1	.1508	-.1342	2.995	2.818	1.266	7.616	.0310	.9980	740.9
#2	-.0485	-.0537	3.122	2.871	1.273	7.704	-.0344	1.013	738.9
#3	.1948	.1557	3.208	2.853	1.277	7.647	-.0218	1.028	738.9

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1966.0	5265.2	40239.	4335.7
Stddev	4.8	5.1	79.	15.4
%RSD	.24597	.09664	.19570	.35470
#1	1961.1	5259.4	40268.	4330.5
#2	1970.7	5267.2	40149.	4323.6
#3	1966.2	5269.0	40299.	4353.0

Zoom In Zoom Out

Sample Name: CCV Acquired: 2/15/2017 11:45:40 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2601	39.63	1.999	2.015	1.978	39.93	2.011	2.002	2.012	1.981
Stddev	.0006	.15	.004	.003	.009	.21	.003	.004	.002	.001
%RSD	.2295	.3893	.1906	.1654	.4754	.5248	.1395	.2048	.0753	.0586
#1	.2600	39.50	1.998	2.012	1.975	39.76	2.008	1.997	2.010	1.980
#2	.2596	39.60	2.003	2.019	1.971	39.88	2.014	2.006	2.013	1.980
#3	.2608	39.80	1.995	2.014	1.989	40.17	2.011	2.002	2.012	1.982
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.95	40.02	40.09	2.054	2.041	39.81	2.022	1.988	1.993	2.025
Stddev	.19	.12	.18	.006	.004	.13	.002	.004	.006	.001
%RSD	.4831	.3096	.4409	.2743	.2054	.3289	.0985	.1780	.2867	.0419
#1	39.78	39.93	39.96	2.059	2.036	39.68	2.019	1.984	1.989	2.026
#2	39.92	39.97	40.03	2.055	2.042	39.79	2.023	1.988	1.991	2.024
#3	40.16	40.16	40.29	2.048	2.044	39.94	2.023	1.991	2.000	2.026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.640	2.058	2.031	2.065	1.992	2.037	2.004
Stddev	.002	.004	.006	.005	.007	.003	.004
%RSD	.1029	.1686	.3012	.2292	.3374	.1619	.2016
#1	1.641	2.056	2.030	2.069	1.985	2.039	2.001
#2	1.641	2.062	2.026	2.066	1.999	2.033	2.009
#3	1.638	2.056	2.038	2.059	1.992	2.040	2.003
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 2/15/2017 11:45:40 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1773.6	5056.4	38382.	4349.7
Stddev	3.0	8.0	66.	37.4
%RSD	.16821	.15809	.17167	.86027
#1	1777.1	5063.4	38444.	4389.4
#2	1771.9	5047.7	38313.	4344.6
#3	1771.8	5058.1	38388.	4315.0

Zoom In Zoom Out

Sample Name: CCB Acquired: 2/15/2017 11:49:35 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0008	.0009	.0002	.0002	.0050	.0001	.0000	.0000
Stddev	.0001	.0048	.0003	.0002	.0001	.0021	.0001	.000	.000
%RSD	380.7	579.1	32.76	91.94	50.66	41.82	67.26	218.1	1029.
#1	-.0001	.0020	.0006	.0004	.0003	.0029	.0000	.0000	.0001
#2	.0000	-.0045	.0011	.0001	.0002	.0071	.0001	-.0001	-.0003
#3	.0002	.0049	.0011	.0001	.0001	.0050	.0001	.0000	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0171	.0617	.0128	.0002	F.0012	.0281	.0005	.0003
Stddev	.0002	.0008	.0075	.0055	.0000	.0005	.0032	.0001	.0003
%RSD	43.29	4.746	12.14	42.65	14.24	36.28	11.41	17.34	101.7
#1	.0006	.0176	.0691	.0072	.0001	.0017	.0315	.0006	.0000
#2	.0002	.0175	.0620	.0131	.0002	.0012	.0252	.0006	.0002
#3	.0004	.0162	.0541	.0181	.0002	.0008	.0275	.0004	.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	.0005	-.0002	.0003	.0003	.0005	.0005	.0002	.0004
Stddev	.0003	.0008	.0003	.0002	.0001	.0001	.0006	.0003	.0000
%RSD	59.02	184.3	195.7	54.29	19.80	24.93	120.2	201.0	4.879
#1	.0005	.0012	-.0005	.0004	.0003	.0004	.0009	.0003	.0004
#2	.0009	-.0004	.0001	.0004	.0002	.0005	-.0002	.0004	.0004
#3	.0003	.0005	.0000	.0001	.0003	.0006	.0009	-.0002	.0004
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 2/15/2017 11:49:35 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1955.2	5213.7	39742.	4312.4
Stddev	1.5	13.3	226.	22.3
%RSD	.07500	.25464	.56908	.51644
#1	1954.1	5222.7	40003.	4311.9
#2	1956.9	5219.8	39608.	4335.0
#3	1954.7	5198.4	39615.	4290.5

Zoom In Zoom Out

Sample Name: FA41132-1L Acquired: 2/15/2017 12:12:43 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0002	.0642	-.0005	.0134	.0000	1.729	.0004	.0002	.0010
Stddev	.0001	.0107	.0007	.0004	.000	.006	.0001	.0001	.0002
%RSD	70.72	16.65	158.7	3.110	73.32	.3428	13.18	51.34	18.82
#1	-.0001	.0674	-.0011	.0136	.0000	1.727	.0004	.0002	.0009
#2	-.0002	.0522	-.0007	.0129	.0000	1.725	.0005	.0001	.0013
#3	-.0003	.0728	.0004	.0137	-.0001	1.736	.0004	.0004	.0009

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0008	.1063	.2862	.2523	.0316	-.0003	F177.1	.0006	.0005
Stddev	.0001	.0021	.0228	.0071	.0003	.0001	3.7	.0002	.0008
%RSD	7.502	1.946	7.959	2.833	.8342	43.53	2.067	32.42	176.5
#1	.0008	.1045	.2826	.2602	.0316	-.0001	181.3	.0005	.0001
#2	.0007	.1059	.2654	.2508	.0313	-.0003	175.5	.0009	.0014
#3	.0008	.1085	.3106	.2461	.0318	-.0003	174.6	.0005	-.0001

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0006	-.0003	.1268	.0005	.0114	.0010	-.0013	-.0001	.0050
Stddev	.0008	.0012	.0003	.0001	.0001	.0002	.0006	.0001	.0001
%RSD	132.3	475.2	.2695	19.24	.5025	16.88	51.08	132.3	1.215
#1	.0009	-.0015	.1267	.0004	.0113	.0012	-.0015	.0000	.0050
#2	-.0003	.0009	.1265	.0006	.0114	.0010	-.0017	-.0002	.0050
#3	.0012	-.0002	.1272	.0005	.0114	.0008	-.0005	-.0001	.0051

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1799.4	5063.3	37667.	4263.8
Stddev	.8	7.1	233.	22.3
%RSD	.04282	.14044	.61957	.52401
#1	1800.2	5071.0	37538.	4238.5
#2	1799.5	5061.9	37936.	4280.9
#3	1798.6	5057.0	37526.	4272.0

Zoom In Zoom Out

Sample Name: MP31638-MB1 Acquired: 2/15/2017 12:17:06 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	-.0073	-.0005	-.0003	.0000	.0144	.0000	-.0002	.0003	-.0003
Stddev	.0001	.0015	.0004	.0002	.000	.0021	.000	.0000	.0001	.0004
%RSD	136.3	20.41	97.03	77.37	328.1	14.73	124.7	20.14	46.49	156.0
#1	-.0002	-.0057	-.0009	.0000	.0001	.0157	-.0001	-.0002	.0002	-.0005
#2	.0000	-.0078	-.0004	-.0004	-.0001	.0154	.0000	-.0001	.0002	.0002
#3	-.0001	-.0085	-.0001	-.0003	.0000	.0119	.0000	-.0002	.0004	-.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034	.0749	-.0102	.0000	-.0003	.0791	.0002	.0000	.0006	-.0008
Stddev	.0015	.0176	.0118	.0000	.0001	.0015	.0002	.0007	.0004	.0004
%RSD	44.46	23.50	116.1	272.7	20.24	1.836	113.3	1761.	64.89	42.80
#1	.0017	.0600	-.0048	.0001	-.0004	.0795	.0004	-.0007	.0010	-.0012
#2	.0043	.0704	-.0237	.0000	-.0003	.0775	.0000	.0002	.0006	-.0009
#3	.0042	.0944	-.0020	.0000	-.0003	.0803	.0002	.0006	.0002	-.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0123	.0005	.0000	.0000	-.0013	.0000	.0015
Stddev	.0003	.0001	.000	.000	.0010	.000	.0001
%RSD	2.436	27.97	321.3	214.2	75.91	1531.	3.646
#1	.0124	.0004	-.0001	-.0001	-.0025	-.0001	.0016
#2	.0126	.0006	.0000	-.0001	-.0008	-.0001	.0015
#3	.0120	.0006	.0000	.0001	-.0007	.0002	.0014
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: MP31638-MB1 Acquired: 2/15/2017 12:17:06 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1956.4	5253.9	40190.	4290.1
Stddev	.9	8.6	120.	15.7
%RSD	.04422	.16355	.29805	.36674
#1	1956.9	5249.2	40065.	4272.0
#2	1955.4	5263.8	40199.	4297.9
#3	1956.9	5248.7	40304.	4300.5

Zoom In Zoom Out

Sample Name: MP31638-B1 Acquired: 2/15/2017 12:21:22 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0462	28.40	2.008	2.115	.0531	26.76	.0512	.5105	.2077	.2625
Stddev	.0002	.09	.007	.003	.0004	.13	.0000	.0010	.0001	.0009
%RSD	.5202	.3282	.3573	.1222	.8032	.4977	.0863	.1965	.0613	.3607
#1	.0465	28.43	2.001	2.113	.0535	26.80	.0511	.5096	.2077	.2614
#2	.0460	28.29	2.007	2.118	.0527	26.61	.0512	.5102	.2075	.2629
#3	.0462	28.47	2.016	2.115	.0532	26.87	.0512	.5116	.2078	.2632
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	28.16	26.16	26.01	.5396	.5279	26.29	.5145	.5058	.5189	2.006
Stddev	.05	.16	.14	.0004	.0012	.06	.0019	.0012	.0009	.012
%RSD	.1704	.6283	.5358	.0823	.2334	.2385	.3653	.2339	.1654	.5939
#1	28.20	26.13	25.94	.5393	.5265	26.32	.5126	.5064	.5179	1.997
#2	28.18	26.01	25.92	.5401	.5283	26.22	.5146	.5064	.5192	2.002
#3	28.11	26.33	26.17	.5396	.5289	26.32	.5164	.5044	.5195	2.019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0169	.5224	.5211	.5431	2.041	.4845	.5136
Stddev	.0006	.0013	.0020	.0008	.004	.0005	.0010
%RSD	3.517	.2424	.3750	.1446	.1720	.1121	.1874
#1	.0162	.5221	.5229	.5433	2.042	.4839	.5138
#2	.0170	.5213	.5190	.5422	2.044	.4850	.5126
#3	.0174	.5238	.5214	.5437	2.037	.4845	.5145
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: MP31638-B1 Acquired: 2/15/2017 12:21:22 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1821.9	5128.6	38804.	4303.4
Stddev	3.7	1.7	27.	24.9
%RSD	.20231	.03390	.06993	.57846
#1	1818.8	5127.6	38814.	4300.5
#2	1821.0	5130.6	38773.	4329.6
#3	1826.0	5127.6	38825.	4280.1

Zoom In Zoom Out

Sample Name: FA40928-1 Acquired: 2/15/2017 12:25:20 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0000	.1100	.0002	.0040	-.0001	9.184	.0001	.0002	.0006
Stddev	.000	.0112	.0008	.0001	.0001	.033	.0000	.0000	.0001
%RSD	787.1	10.19	381.8	3.711	120.0	.3588	58.97	25.13	24.68
#1	-.0001	.0972	.0001	.0042	-.0002	9.220	.0001	.0002	.0008
#2	-.0002	.1179	.0011	.0039	.0000	9.155	.0001	.0002	.0005
#3	.0002	.1151	-.0005	.0039	.0000	9.177	.0000	.0001	.0005

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0001	.0791	.2664	1.304	.1306	.0001	F165.6	.0051	-.0003
Stddev	.0002	.0022	.0165	.022	.0006	.0002	.8	.0000	.0008
%RSD	143.9	2.806	6.175	1.697	.4781	127.0	.5111	.7658	251.9
#1	.0001	.0805	.2831	1.322	.1312	-.0001	166.4	.0051	-.0005
#2	.0003	.0802	.2503	1.279	.1300	.0003	165.6	.0051	.0006
#3	-.0001	.0765	.2658	1.311	.1306	.0002	164.7	.0050	-.0009

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0019	.0006	.7760	.0066	.1486	.0005	-.0010	-.0001	.0699
Stddev	.0011	.0017	.0020	.0001	.0005	.0000	.0005	.0001	.0000
%RSD	57.63	300.4	.2539	1.454	.3039	7.852	46.14	71.50	.0703
#1	.0013	-.0010	.7743	.0066	.1491	.0005	-.0016	.0000	.0699
#2	.0032	.0003	.7756	.0065	.1485	.0004	-.0007	-.0001	.0698
#3	.0013	.0024	.7781	.0067	.1482	.0004	-.0008	-.0002	.0698

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1810.0	5040.1	37876.	4313.0
Stddev	.5	2.4	153.	16.8
%RSD	.02705	.04698	.40493	.38930
#1	1810.3	5037.5	37701.	4300.3
#2	1809.4	5042.1	37985.	4332.0
#3	1810.2	5040.7	37942.	4306.6

Zoom In Zoom Out

Sample Name: MP31638-D1 Acquired: 2/15/2017 12:29:32 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0004	.0946	.0000	.0039	-.0001	9.626	.0001	.0002	.0002
Stddev	.0005	.0037	.001	.0001	.0000	.021	.0000	.0001	.0001
%RSD	133.7	3.938	1440.	3.854	57.52	.2218	91.27	62.07	86.06
#1	-.0009	.0922	-.0005	.0037	-.0001	9.604	.0001	.0002	.0003
#2	-.0003	.0927	-.0002	.0039	-.0001	9.627	.0000	.0002	.0001
#3	.0001	.0989	.0006	.0040	-.0001	9.647	.0001	.0000	.0000

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0001	.0950	.2767	1.358	.1353	.0000	F170.3	.0054	-.0001
Stddev	.0002	.0019	.0176	.016	.0006	.000	.5	.0001	.0001
%RSD	249.1	2.029	6.359	1.182	.4528	315.1	.3094	1.558	88.76
#1	-.0003	.0949	.2951	1.373	.1358	-.0001	170.7	.0054	.0000
#2	.0000	.0932	.2600	1.361	.1354	.0001	170.4	.0054	-.0002
#3	.0000	.0970	.2749	1.341	.1346	-.0001	169.7	.0053	-.0002

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0008	.0010	.8240	.0068	.1554	.0002	-.0005	-.0001	.0737
Stddev	.0012	.0018	.0063	.0001	.0001	.0000	.0004	.0001	.0004
%RSD	148.6	177.6	.7698	1.916	.0888	18.82	71.30	128.7	.4839
#1	.0011	.0027	.8169	.0068	.1555	.0002	-.0007	-.0002	.0733
#2	-.0005	.0012	.8257	.0070	.1553	.0002	-.0008	.0000	.0740
#3	.0018	-.0008	.8293	.0067	.1553	.0003	-.0001	-.0001	.0738

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1805.3	5021.3	38261.	4339.8
Stddev	5.6	13.5	121.	25.4
%RSD	.31139	.26788	.31747	.58493
#1	1811.2	5036.6	38294.	4360.2
#2	1800.0	5016.2	38127.	4347.8
#3	1804.5	5011.2	38363.	4311.4

Zoom In Zoom Out

Sample Name: MP31638-SD1 Acquired: 2/15/2017 12:33:53 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0010	.1039	-.0009	.0048	-.0006	9.751	-.0001	-.0005	.0000	.0013
Stddev	.0014	.0495	.0019	.0012	.0003	.002	.0003	.0004	.001	.0012
%RSD	147.5	47.63	202.0	25.60	43.19	.0223	551.4	67.73	15710.	92.41
#1	-.0012	.1554	.0012	.0062	-.0009	9.749	.0000	-.0001	.0009	.0027
#2	-.0022	.0567	-.0023	.0038	-.0005	9.751	-.0004	-.0008	-.0002	.0005
#3	.0006	.0996	-.0018	.0045	-.0004	9.753	.0002	-.0008	-.0007	.0007

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(ln2306)	(Y_2243)	(Y_2243)
Avg	.0785	.5789	1.403	.1387	-.0018	179.0	.0058	.0033	.0022	-.0030
Stddev	.0071	.0891	.114	.0005	.0004	.2	.0010	.0013	.0026	.0047
%RSD	9.028	15.38	8.095	.3732	23.86	.1310	17.24	40.38	118.4	156.8
#1	.0715	.6252	1.313	.1381	-.0019	179.1	.0048	.0018	.0016	.0018
#2	.0783	.6352	1.366	.1391	-.0021	178.7	.0068	.0039	.0050	-.0075
#3	.0856	.4762	1.531	.1389	-.0013	179.1	.0059	.0042	-.0001	-.0031

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(ln2306)	(Y_3600)	(Y_2243)
Avg	.8370	.0072	.1577	.0002	.0016	-.0005	.1362
Stddev	.0021	.0009	.0002	.0001	.0030	.0001	.0005
%RSD	.2547	11.91	.1079	85.88	186.7	12.18	.3840
#1	.8351	.0076	.1576	.0000	.0048	-.0005	.1368
#2	.8367	.0079	.1579	.0003	-.0011	-.0006	.1359
#3	.8393	.0062	.1577	.0001	.0011	-.0005	.1359

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Avg	1894.7	5159.7	38933.	4332.2
Stddev	5.7	5.2	75.	17.6
%RSD	.30188	.10035	.19264	.40554
#1	1899.4	5165.5	38995.	4340.3
#2	1896.3	5158.3	38849.	4312.0
#3	1888.3	5155.4	38954.	4344.2

Zoom In Zoom Out

Sample Name: MP31638-S1 Acquired: 2/15/2017 12:38:05 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0470	28.36	2.048	2.124	.0532	36.39	.0508	.5021	.2070
Stddev	.0003	.05	.008	.005	.0002	.09	.0001	.0011	.0005
%RSD	.5783	.1801	.3864	.2274	.3780	.2543	.2800	.2193	.2329
#1	.0469	28.36	2.041	2.129	.0534	36.41	.0506	.5010	.2066
#2	.0469	28.31	2.047	2.120	.0531	36.28	.0508	.5020	.2075
#3	.0474	28.41	2.056	2.122	.0530	36.47	.0509	.5032	.2068

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(ln2306)
Avg	.2630	27.97	26.74	27.03	.6694	.5409	F201.3	.5127	.5071
Stddev	.0002	.04	.10	.08	.0003	.0001	1.1	.0020	.0007
%RSD	.0690	.1468	.3790	.3077	.0396	.0108	.5276	.3933	.1441
#1	.2629	27.98	26.79	26.96	.6692	.5409	201.8	.5105	.5063
#2	.2628	27.92	26.63	27.12	.6693	.5409	202.0	.5131	.5077
#3	.2632	28.00	26.81	27.01	.6697	.5408	200.1	.5145	.5073

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(ln2306)	(Y_3600)	(Y_2243)
Avg	.5222	2.073	.8905	.5370	.6978	.5556	2.013	.4841	.5818
Stddev	.0014	.003	.0088	.0014	.0030	.0006	.001	.0005	.0003
%RSD	.2640	.1490	.9852	.2519	.4369	.0994	.0522	.1010	.0584
#1	.5210	2.072	.8820	.5361	.7009	.5554	2.012	.4837	.5815
#2	.5219	2.070	.8899	.5364	.6948	.5562	2.014	.4846	.5818
#3	.5237	2.076	.8995	.5386	.6978	.5551	2.014	.4840	.5822

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Avg	1733.8	5006.9	37710.	4287.3
Stddev	1.5	4.2	65.	34.4
%RSD	.08490	.08460	.17347	.80333
#1	1732.1	5004.3	37744.	4316.7
#2	1734.6	5011.8	37752.	4295.8
#3	1734.7	5004.7	37635.	4249.4

Zoom In Zoom Out

Sample Name: MP31638-S2 Acquired: 2/15/2017 12:42:10 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0464	27.80	2.031	2.083	.0521	35.51	.0500	.4941	.2033
Stddev	.0001	.03	.009	.007	.0001	.08	.0001	.0006	.0007
%RSD	.2582	.1052	.4670	.3348	.2692	.2142	.1048	.1283	.3549
#1	.0464	27.78	2.020	2.075	.0521	35.49	.0500	.4934	.2026
#2	.0465	27.83	2.036	2.085	.0522	35.59	.0499	.4945	.2033
#3	.0463	27.81	2.036	2.088	.0519	35.44	.0500	.4945	.2041

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(ln2306)
Avg	.2562	27.30	26.33	26.53	.6520	.5080	F193.5	.5075	.4951
Stddev	.0005	.06	.09	.11	.0024	.0001	2.1	.0015	.0023
%RSD	.1927	.2113	.3341	.4108	.3619	.0152	1.061	.2906	.4603
#1	.2561	27.25	26.25	26.46	.6536	.5079	193.5	.5058	.4964
#2	.2568	27.36	26.43	26.65	.6493	.5080	195.5	.5086	.4963
#3	.2558	27.31	26.32	26.47	.6532	.5080	191.4	.5080	.4924

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(ln2306)	(Y_3600)	(Y_2243)
Avg	.5111	2.055	.8818	.5079	.6584	.5206	1.971	.4768	.5711
Stddev	.0019	.009	.0056	.0001	.0013	.0005	.002	.0006	.0006
%RSD	.3812	.4233	.6295	.0235	.1975	.0960	.0842	.1176	.1129
#1	.5119	2.045	.8755	.5078	.6579	.5205	1.973	.4767	.5717
#2	.5126	2.060	.8839	.5080	.6599	.5201	1.971	.4763	.5711
#3	.5089	2.060	.8860	.5078	.6575	.5211	1.969	.4774	.5704

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Avg	1742.7	5004.7	37793.	4285.0
Stddev	3.9	3.0	124.	14.5
%RSD	.22244	.06039	.32908	.33839
#1	1739.4	5001.5	37835.	4294.2
#2	1741.7	5005.2	37891.	4268.3
#3	1746.9	5007.5	37653.	4292.5

Zoom In Zoom Out

Sample Name: FA40928-2 Acquired: 2/15/2017 12:46:15 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0001	.0156	-.0001	.0161	.0000	21.77	.0004	-.0001	.0012
Stddev	.0004	.0103	.0014	.0004	.000	.08	.0000	.0000	.0003
%RSD	452.6	66.31	2543.	2.271	231.7	.3558	10.56	33.20	24.31
#1	.0002	.0266	-.0007	.0156	.0000	21.76	.0004	-.0001	.0011
#2	-.0003	.0141	.0015	.0163	.0000	21.86	.0005	-.0001	.0015
#3	.0004	.0061	-.0010	.0162	-.0001	21.71	.0004	-.0001	.0010

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(ln2306)
Avg	.0022	.0209	.6907	.5056	.0095	-.0003	F177.0	.0008	.0006
Stddev	.0003	.0022	.0169	.0236	.0000	.0000	2.3	.0002	.0012
%RSD	11.99	10.73	2.440	4.677	.1701	11.15	1.298	26.34	191.9
#1	.0019	.0212	.7102	.5210	.0094	-.0003	178.8	.0005	.0004
#2	.0023	.0230	.6801	.5174	.0095	-.0003	177.7	.0009	.0019
#3	.0024	.0186	.6819	.4783	.0094	-.0002	174.4	.0008	-.0004

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(ln2306)	(Y_3600)	(Y_2243)
Avg	.0012	.0012	.1596	.0080	.0075	.0005	-.0009	.0003	.0081
Stddev	.0004	.0018	.0067	.0006	.0000	.0001	.0014	.0003	.0000
%RSD	32.02	141.7	4.216	7.678	.5587	9.774	156.5	88.32	.5952
#1	.0013	.0015	.1547	.0074	.0075	.0006	.0007	.0003	.0080
#2	.0008	.0029	.1569	.0086	.0074	.0005	-.0018	.0006	.0081
#3	.0015	-.0006	.1673	.0081	.0075	.0005	-.0017	.0001	.0081

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Avg	1792.6	5009.1	37708.	4294.4
Stddev	3.7	13.6	95.	12.9
%RSD	.20541	.27105	.25127	.30020
#1	1796.7	5018.5	37641.	4281.0
#2	1791.3	5015.3	37667.	4295.6
#3	1789.7	4993.6	37817.	4306.7

Zoom In Zoom Out

Sample Name: FA41081-9 Acquired: 2/15/2017 12:50:38 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0001	.0028	-.0004	.0100	-.0001	86.82	.0000	.0000	.0008
Stddev	.0005	.0087	.0005	.0002	.0001	.27	.000	.0001	.0001
%RSD	362.1	309.5	123.6	1.545	76.91	.3072	73.05	494.1	8.262
#1	.0005	.0052	-.0010	.0101	.0000	87.13	.0000	-.0001	.0007
#2	-.0005	-.0068	-.0001	.0098	-.0001	86.65	.0000	.0001	.0008
#3	-.0004	.0101	-.0001	.0100	-.0002	86.69	.0000	.0001	.0008

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	-.0002	.0015	.2853	.6974	.0153	-.0009	F181.2	.0003	-.0009
Stddev	.0002	.0011	.0500	.0231	.0001	.0002	1.8	.0001	.0005
%RSD	94.01	74.25	17.51	3.306	.6080	26.88	.9778	27.39	58.12
#1	-.0001	.0005	.2345	.6836	.0153	-.0007	183.2	.0004	-.0014
#2	-.0004	.0012	.2870	.6846	.0154	-.0009	180.5	.0003	-.0004
#3	-.0001	.0026	.3344	.7240	.0152	-.0012	179.9	.0002	-.0009

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0014	.0022	.0471	.0003	.1478	.0007	-.0011	.0009	.0048
Stddev	.0003	.0015	.0061	.0003	.0005	.0001	.0008	.0002	.0000
%RSD	20.56	69.66	12.97	98.29	.3368	14.12	73.06	19.20	.2391
#1	.0016	.0023	.0540	.0004	.1481	.0006	-.0003	.0007	.0048
#2	.0011	.0036	.0423	.0000	.1472	.0007	-.0012	.0010	.0048
#3	.0016	.0006	.0451	.0004	.1480	.0008	-.0019	.0011	.0048

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1767.8	4953.4	37449.	4256.6
Stddev	1.9	11.0	221.	26.9
%RSD	.10891	.22205	.58972	.63283
#1	1768.8	4953.8	37402.	4236.6
#2	1769.0	4964.2	37256.	4246.0
#3	1765.6	4942.2	37690.	4287.3

Zoom In Zoom Out

Sample Name: CCV Acquired: 2/15/2017 12:55:00 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2618	39.87	1.991	2.033	1.993	40.12	2.015	2.009	2.023	2.005
Stddev	.0008	.04	.001	.006	.003	.03	.003	.002	.003	.004
%RSD	.2968	.1125	.0367	.2934	.1563	.0710	.1677	.1051	.1236	.2018
#1	.2624	39.84	1.992	2.026	1.989	40.09	2.011	2.007	2.022	2.006
#2	.2621	39.85	1.991	2.035	1.994	40.14	2.018	2.011	2.026	2.001
#3	.2609	39.92	1.990	2.037	1.995	40.13	2.016	2.010	2.021	2.009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.37	40.16	40.12	2.070	2.056	39.68	2.019	1.999	2.002	2.016
Stddev	.18	.03	.18	.005	.005	.07	.004	.011	.005	.006
%RSD	.4396	.0765	.4570	.2388	.2290	.1732	.2184	.5438	.2725	.3119
#1	40.16	40.18	39.91	2.072	2.051	39.63	2.017	1.994	1.996	2.016
#2	40.48	40.13	40.23	2.064	2.059	39.65	2.024	1.992	2.006	2.022
#3	40.46	40.18	40.23	2.073	2.058	39.75	2.017	2.012	2.002	2.010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.651	2.056	2.048	2.086	2.019	2.048	2.010
Stddev	.006	.004	.003	.001	.009	.005	.004
%RSD	.3428	.1860	.1558	.0605	.4395	.2383	.1925
#1	1.648	2.052	2.045	2.086	2.015	2.042	2.006
#2	1.657	2.060	2.047	2.085	2.013	2.051	2.012
#3	1.647	2.057	2.051	2.088	2.029	2.051	2.013
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 2/15/2017 12:55:00 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1762.7	5049.2	38280.	4298.0
Stddev	8.0	9.8	47.	17.5
%RSD	.45379	.19468	.12250	.40760
#1	1769.1	5060.6	38227.	4318.2
#2	1765.4	5044.1	38317.	4286.8
#3	1753.7	5043.0	38295.	4289.1

Zoom In Zoom Out

Sample Name: CCB Acquired: 2/15/2017 12:58:56 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0000	.0006	.0002	.0001	.0059	.0000	-.0001	.0001
Stddev	.0002	.0123	.0008	.0001	.0000	.0016	.0000	.0000	.0001
%RSD	157.4	46280.	120.3	40.94	25.50	26.76	110.6	7.990	236.2
#1	.0001	.0124	.0000	.0002	.0002	.0044	.0000	-.0001	.0001
#2	-.0002	-.0123	.0004	.0001	.0001	.0075	.0000	-.0001	.0002
#3	-.0004	-.0001	.0015	.0003	.0001	.0059	.0001	-.0001	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0141	.0781	.0153	.0001	F.0012	.0891	.0002	.0001
Stddev	.0001	.0033	.0484	.0186	.0001	.0002	.0066	.0003	.0003
%RSD	48.80	23.23	62.02	121.5	49.83	15.00	7.433	202.8	286.5
#1	.0001	.0176	.1340	-.0057	.0002	.0014	.0926	-.0002	.0004
#2	.0002	.0137	.0503	.0222	.0001	.0013	.0815	.0003	.0000
#3	.0003	.0110	.0499	.0295	.0001	.0010	.0933	.0004	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0003	.0050	.0002	.0003	.0005	.0005	-.0002	.0003
Stddev	.0007	.0021	.0005	.0000	.0001	.0001	.0010	.0001	.0000
%RSD	268.9	596.4	10.78	16.26	21.55	19.69	223.2	30.18	9.418
#1	.0005	-.0023	.0053	.0001	.0004	.0006	.0007	-.0003	.0003
#2	.0008	.0018	.0052	.0001	.0003	.0004	.0014	-.0001	.0003
#3	-.0005	-.0005	.0044	.0002	.0003	.0004	-.0007	-.0003	.0003
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 2/15/2017 12:58:56 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1944.1	5191.6	39554.	4306.9
Stddev	1.6	5.6	130.	36.2
%RSD	.07994	.10709	.32985	.83977
#1	1942.4	5193.1	39620.	4265.9
#2	1944.5	5196.2	39638.	4320.6
#3	1945.4	5185.4	39403.	4334.3

Zoom In Zoom Out

Sample Name: FA41169-1 Acquired: 2/15/2017 13:03:12 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0001	.0085	-.0008	.1051	-.0001	55.67	.0002	-.0002	.0009
Stddev	.0009	.0079	.0004	.0004	.0001	.14	.0000	.0001	.0002
%RSD	689.6	93.47	45.75	.4059	105.6	.2568	11.96	41.10	24.20
#1	-.0004	.0088	-.0009	.1051	-.0002	55.51	.0002	-.0001	.0011
#2	.0008	.0004	-.0004	.1055	.0000	55.74	.0002	-.0002	.0007
#3	-.0008	.0162	-.0011	.1046	.0000	55.77	.0002	-.0002	.0007

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0003	.0068	.2209	.4220	.0073	-.0005	F171.9	.0008	.0223
Stddev	.0002	.0012	.0429	.0194	.0001	.0002	.5	.0001	.0002
%RSD	54.66	17.74	19.40	4.586	.6969	33.70	.3143	7.595	.9206
#1	.0005	.0062	.2067	.4018	.0073	-.0003	171.4	.0007	.0225
#2	.0004	.0060	.1869	.4240	.0073	-.0006	171.9	.0008	.0221
#3	.0001	.0082	.2690	.4403	.0072	-.0006	172.5	.0007	.0223

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0003	.0008	.0671	.0002	.0631	.0008	-.0011	.0001	.1070
Stddev	.0011	.0010	.0006	.0001	.0001	.0000	.0001	.0003	.0003
%RSD	334.4	120.9	.8676	50.73	.1335	2.994	7.821	223.5	.3257
#1	.0010	.0005	.0678	.0001	.0631	.0008	-.0011	.0004	.1066
#2	-.0009	.0020	.0669	.0003	.0632	.0008	-.0011	-.0001	.1072
#3	.0009	.0000	.0667	.0001	.0632	.0008	-.0010	.0001	.1072

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1775.7	4959.4	37344.	4215.2
Stddev	3.3	.8	39.	19.3
%RSD	.18724	.01551	.10370	.45873
#1	1777.0	4959.6	37300.	4234.8
#2	1778.1	4958.5	37358.	4214.6
#3	1771.9	4960.0	37374.	4196.2

Zoom In Zoom Out

Sample Name: FA41169-2 Acquired: 2/15/2017 13:07:33 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0001	.0005	.0022	.1016	-.0001	83.97	.0004	.0001	.0006
Stddev	.0003	.0013	.0004	.0005	.0001	.25	.0000	.0001	.0001
%RSD	656.7	252.4	17.37	.5273	86.80	.2972	10.88	107.5	10.47
#1	.0001	.0003	.0020	.1022	-.0001	83.98	.0003	.0002	.0007
#2	.0004	.0018	.0020	.1014	-.0001	84.22	.0004	.0000	.0006
#3	-.0003	-.0007	.0027	.1012	.0000	83.72	.0003	.0000	.0005

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0021	.0045	.3275	.9223	.0574	-.0006	F168.9	.0008	.0506
Stddev	.0003	.0013	.0218	.0209	.0003	.0001	.7	.0001	.0009
%RSD	16.86	28.75	6.655	2.262	.4737	10.42	.4215	15.05	1.769
#1	.0017	.0058	.3196	.9184	.0574	-.0005	168.2	.0007	.0513
#2	.0024	.0046	.3107	.9448	.0577	-.0007	169.6	.0010	.0509
#3	.0021	.0032	.3521	.9037	.0572	-.0006	168.8	.0009	.0496

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0048	.0002	.1003	.0002	.1566	.0010	-.0010	.0010	.0669
Stddev	.0001	.0007	.0005	.0002	.0004	.0002	.0008	.0000	.0001
%RSD	2.351	388.2	.4620	95.63	.2496	17.59	80.95	4.332	.1670
#1	.0047	-.0006	.0998	.0004	.1567	.0012	-.0003	.0010	.0668
#2	.0047	.0007	.1007	.0003	.1569	.0008	-.0008	.0009	.0670
#3	.0049	.0005	.1004	.0000	.1561	.0010	-.0020	.0010	.0670

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1764.9	4948.3	37278.	4220.6
Stddev	3.1	7.5	205.	39.7
%RSD	.17584	.15222	.55098	.94064
#1	1768.5	4952.0	37332.	4266.3
#2	1763.2	4953.2	37051.	4201.3
#3	1763.0	4939.6	37451.	4194.2

Zoom In Zoom Out

Sample Name: FA41169-3 Acquired: 2/15/2017 13:11:47 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0001	.0023	-.0008	.1021	.0000	97.59	.0002	-.0002	.0007
Stddev	.0003	.0017	.0006	.0005	.000	.14	.0000	.0001	.0001
%RSD	201.4	70.76	73.05	.5107	357.6	.1440	14.33	63.50	18.31
#1	-.0002	.0031	-.0007	.1017	-.0001	97.59	.0002	-.0001	.0006
#2	.0002	.0004	-.0014	.1026	.0001	97.73	.0002	-.0003	.0007
#3	.0003	.0035	-.0003	.1018	-.0001	97.45	.0003	-.0002	.0009

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0052	.0049	.3567	1.310	.0133	-.0009	F170.4	.0004	.0598
Stddev	.0002	.0018	.0178	.014	.0001	.0001	.8	.0003	.0004
%RSD	3.316	36.76	4.983	1.100	.5563	11.22	.4611	80.65	.6618
#1	.0052	.0047	.3441	1.327	.0134	-.0008	169.7	.0003	.0603
#2	.0050	.0032	.3770	1.301	.0133	-.0009	171.2	.0001	.0597
#3	.0054	.0067	.3490	1.303	.0133	-.0010	170.2	.0007	.0596

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0015	.0001	.2663	.0003	.0729	.0007	-.0010	.0012	.0916
Stddev	.0005	.0011	.0029	.0001	.0001	.0002	.0001	.0002	.0003
%RSD	35.79	1301.	1.075	53.08	.0977	29.72	12.24	18.67	.2804
#1	.0019	-.0012	.2642	.0002	.0729	.0010	-.0009	.0012	.0914
#2	.0016	.0006	.2651	.0005	.0728	.0006	-.0011	.0014	.0915
#3	.0009	.0009	.2696	.0002	.0728	.0006	-.0008	.0010	.0919

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1743.1	4910.2	36809.	4209.3
Stddev	5.8	8.9	132.	26.4
%RSD	.33206	.18119	.35806	.62663
#1	1744.6	4913.1	36672.	4194.5
#2	1748.1	4917.3	36934.	4193.7
#3	1736.8	4900.3	36821.	4239.8

Zoom In Zoom Out

Sample Name: FA41146-1 Acquired: 2/15/2017 13:16:05 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0000	.0676	.0000	.0998	.0000	4.450	.0000	-.0001	.0006
Stddev	.001	.0092	.0004	.0005	.0000	.013	.000	.0000	.0000
%RSD	13830.	13.66	16000.	.4861	123.6	.3021	178.3	76.54	6.263
#1	.0004	.0590	-.0002	.0998	.0001	4.456	.0000	-.0001	.0006
#2	-.0007	.0774	.0005	.1003	.0000	4.459	.0000	-.0001	.0005
#3	.0002	.0666	-.0003	.0994	.0000	4.434	-.0001	.0000	.0006

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0013	.0010	.6756	.6364	.0631	-.0005	F164.9	.0008	.0023
Stddev	.0000	.0025	.0055	.0296	.0001	.0002	.3	.0001	.0004
%RSD	2.395	243.7	.8111	4.650	.1926	29.07	.1855	6.817	19.34
#1	.0012	.0017	.6694	.6562	.0630	-.0006	165.2	.0007	.0020
#2	.0013	-.0017	.6782	.6024	.0632	-.0006	164.9	.0008	.0028
#3	.0013	.0032	.6794	.6507	.0631	-.0003	164.6	.0008	.0021

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0001	.0003	.2832	.0000	.0120	.0002	-.0009	-.0001	.1077
Stddev	.0005	.0015	.0052	.0000	.0001	.0000	.0009	.0002	.0002
%RSD	471.1	556.0	1.836	69.83	.5449	11.68	106.5	302.4	.1998
#1	.0006	.0020	.2864	.0000	.0119	.0002	-.0012	.0001	.1074
#2	-.0004	-.0004	.2772	.0000	.0120	.0002	-.0015	.0000	.1078
#3	.0001	-.0008	.2860	.0000	.0120	.0001	.0002	-.0003	.1077

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1803.6	5090.4	38044.	4317.6
Stddev	3.7	8.4	47.	32.9
%RSD	.20572	.16507	.12483	.76091
#1	1800.1	5085.5	37989.	4307.3
#2	1807.5	5100.1	38066.	4291.1
#3	1803.2	5085.6	38076.	4354.3

Zoom In Zoom Out

Sample Name: MP31638-D2 Acquired: 2/15/2017 13:20:24 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0000	.0539	-.0003	.0121	.0000	1.568	.0001	.0001	.0005
Stddev	.000	.0001	.0007	.0002	.000	.007	.0000	.0000	.0002
%RSD	1275.	.1926	222.0	2.028	65.40	.4575	8.680	5.018	33.12
#1	.0004	.0540	-.0006	.0120	.0000	1.576	.0001	.0002	.0004
#2	.0000	.0538	.0005	.0124	.0000	1.562	.0001	.0001	.0007
#3	-.0005	.0538	-.0008	.0119	-.0001	1.566	.0001	.0001	.0004

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0034	.0825	.2882	.2261	.0288	-.0004	F168.8	.0006	.0006
Stddev	.0004	.0029	.0194	.0207	.0002	.0001	1.2	.0001	.0003
%RSD	11.97	3.472	6.720	9.168	.6442	19.23	.7129	21.58	56.73
#1	.0036	.0830	.2948	.2409	.0288	-.0005	169.4	.0008	.0004
#2	.0036	.0851	.2664	.2024	.0290	-.0003	167.4	.0005	.0004
#3	.0029	.0794	.3035	.2351	.0286	-.0004	169.5	.0005	.0009

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0020	-.0003	.0998	.0003	.0100	.0006	-.0013	-.0003	.0060
Stddev	.0005	.0005	.0008	.0000	.0001	.0001	.0005	.0001	.0000
%RSD	27.52	193.7	.8282	.6915	.9528	11.89	39.42	14.42	.5238
#1	.0026	-.0009	.0989	.0003	.0100	.0005	-.0010	-.0004	.0060
#2	.0018	-.0002	.1003	.0004	.0099	.0005	-.0019	-.0003	.0059
#3	.0016	.0002	.1002	.0003	.0101	.0006	-.0009	-.0003	.0059

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1814.5	5038.7	38009.	4273.3
Stddev	7.1	12.5	189.	11.9
%RSD	.39337	.24809	.49744	.27738
#1	1822.5	5051.8	38076.	4282.4
#2	1812.0	5037.4	37795.	4259.9
#3	1808.9	5026.9	38155.	4277.5

Zoom In Zoom Out

Sample Name: MP31638-MB2 Acquired: 2/15/2017 13:24:43 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0027	-.0005	.0006	.0000	.0232	.0000	-.0002	.0006
Stddev	.0002	.0027	.0009	.0004	.000	.0012	.000	.0001	.0001
%RSD	601.9	100.8	185.0	65.60	21.30	5.319	35.09	64.39	23.97
#1	-.0002	.0038	.0004	.0008	.0000	.0233	-.0001	-.0001	.0007
#2	.0001	-.0004	-.0005	.0002	-.0001	.0243	.0000	-.0003	.0004
#3	.0002	.0046	-.0013	.0010	.0000	.0219	.0000	-.0002	.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018	.0017	.2254	.0052	.0001	-.0005	F171.6	.0003	.0001
Stddev	.0003	.0033	.0290	.0111	.0000	.0001	2.6	.0001	.0007
%RSD	15.41	197.6	12.85	214.6	62.97	26.80	1.498	25.67	488.7
#1	.0017	-.0011	.2383	.0115	.0001	-.0003	168.6	.0003	.0003
#2	.0022	.0053	.1922	.0116	.0001	-.0005	173.4	.0004	-.0006
#3	.0017	.0008	.2457	-.0076	.0000	-.0006	172.7	.0002	.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit							2.500		
Low Limit							-2.500		

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	-.0006	.0221	.0001	.0002	.0001	-.0013	-.0002	.0029
Stddev	.0012	.0024	.0019	.0000	.0000	.0001	.0012	.0000	.0000
%RSD	115.2	426.2	8.741	31.33	12.42	139.5	94.08	8.610	.6546
#1	.0017	-.0024	.0235	.0001	.0002	.0000	-.0026	-.0002	.0029
#2	.0017	.0021	.0199	.0001	.0002	.0001	-.0006	-.0003	.0029
#3	-.0003	-.0013	.0229	.0001	.0002	.0000	-.0006	-.0002	.0029
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: MP31638-MB2 Acquired: 2/15/2017 13:24:43 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1795.2	4996.3	37354.	4241.3
Stddev	1.1	7.8	146.	9.2
%RSD	.06322	.15594	.39020	.21694
#1	1795.6	4989.7	37488.	4250.3
#2	1793.9	5004.9	37199.	4241.6
#3	1796.0	4994.3	37373.	4231.9

Zoom In Zoom Out

Sample Name: MP31638-B2 Acquired: 2/15/2017 13:29:08 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0479	28.47	2.084	2.156	.0534	26.71	.0516	.5110	.2112
Stddev	.0002	.05	.004	.016	.0002	.02	.0001	.0005	.0005
%RSD	.5187	.1844	.2179	.7208	.2845	.0788	.1842	.0900	.2239
#1	.0477	28.51	2.082	2.174	.0533	26.73	.0516	.5115	.2112
#2	.0480	28.41	2.082	2.148	.0533	26.69	.0515	.5110	.2108
#3	.0481	28.49	2.090	2.146	.0535	26.71	.0517	.5106	.2118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2646	27.94	26.94	26.07	.5373	.5279	F191.5	.5199	.5117
Stddev	.0005	.04	.08	.11	.0017	.0008	1.2	.0011	.0005
%RSD	.2010	.1548	.2945	.4232	.3245	.1570	.6374	.2096	.0945
#1	.2647	27.98	26.90	26.06	.5360	.5287	190.7	.5188	.5114
#2	.2640	27.92	26.89	25.97	.5393	.5270	190.9	.5210	.5122
#3	.2651	27.90	27.03	26.19	.5365	.5280	192.9	.5198	.5114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value							25.00		
Range							20.00%		

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5253	2.105	.0269	.5225	.5191	.5416	2.028	.4945	.5230
Stddev	.0023	.004	.0013	.0005	.0008	.0006	.005	.0008	.0003
%RSD	.4400	.1865	4.929	.0977	.1523	.1066	.2467	.1531	.0629
#1	.5270	2.108	.0261	.5221	.5199	.5411	2.033	.4940	.5233
#2	.5227	2.101	.0285	.5231	.5183	.5422	2.023	.4954	.5227
#3	.5263	2.108	.0263	.5224	.5191	.5416	2.029	.4943	.5230
Check ?	Chk Pass	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: MP31638-B2 Acquired: 2/15/2017 13:29:08 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1734.4	4975.7	37410.	4235.5
Stddev	.7	2.0	88.	23.1
%RSD	.03814	.04007	.23535	.54466
#1	1735.1	4976.1	37457.	4252.4
#2	1734.3	4977.4	37309.	4209.2
#3	1733.7	4973.5	37465.	4244.9

Zoom In Zoom Out

Sample Name: MP31640-MB1 Acquired: 2/15/2017 13:33:15 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	.0016	-.0007	.0003	-.0001	.0223	.0000	-.0002	.0008	.0000
Stddev	.0008	.0058	.0006	.0003	.0001	.0025	.000	.0001	.0002	.000
%RSD	118.5	361.7	84.47	104.3	164.8	11.02	240.3	55.59	27.32	604.8
#1	-.0004	.0061	.0000	.0006	.0000	.0233	-.0001	-.0002	.0010	.0000
#2	-.0015	.0036	-.0010	.0000	.0000	.0195	.0000	-.0001	.0007	-.0002
#3	.0000	-.0049	-.0010	.0004	-.0001	.0240	.0000	-.0003	.0006	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0179	.0721	.0231	.0007	.0000	.1645	.0005	.0000	.0008	.0006
Stddev	.0010	.0279	.0241	.0000	.0001	.0052	.0001	.0002	.0018	.0002
%RSD	5.835	38.71	104.4	6.039	1580.	3.139	10.59	727.8	221.5	25.78
#1	.0172	.0860	.0332	.0007	.0002	.1688	.0005	.0001	.0015	.0007
#2	.0174	.0904	-.0044	.0008	-.0001	.1660	.0004	-.0002	-.0012	.0004
#3	.0191	.0400	.0405	.0008	.0000	.1588	.0006	.0002	.0021	.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0132	.0208	.0001	.0007	-.0013	-.0002	.0019
Stddev	.0006	.0001	.0001	.0002	.0005	.0000	.0000
%RSD	4.232	.5304	51.33	31.17	42.94	14.30	1.187
#1	.0126	.0209	.0001	.0010	-.0010	-.0002	.0019
#2	.0137	.0207	.0001	.0006	-.0019	-.0002	.0020
#3	.0134	.0207	.0002	.0006	-.0009	-.0002	.0019
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: MP31640-MB1 Acquired: 2/15/2017 13:33:15 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1988.9	5259.2	40552.	4385.4
Stddev	3.5	6.1	105.	25.4
%RSD	.17798	.11690	.25790	.57882
#1	1987.8	5265.3	40496.	4398.9
#2	1992.8	5259.3	40673.	4401.1
#3	1986.0	5253.0	40488.	4356.1

Zoom In Zoom Out

Sample Name: MP31640-B1 Acquired: 2/15/2017 13:37:33 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0462	27.96	2.047	2.130	.0523	26.28	.0511	.5106	.2070	.2561
Stddev	.0004	.06	.002	.006	.0002	.10	.0001	.0004	.0003	.0003
%RSD	.8433	.2067	.1147	.2768	.3873	.3962	.1196	.0803	.1373	.1243
#1	.0461	27.97	2.046	2.133	.0521	26.24	.0511	.5104	.2067	.2562
#2	.0459	27.90	2.047	2.124	.0523	26.20	.0512	.5110	.2073	.2558
#3	.0466	28.02	2.050	2.135	.0525	26.40	.0511	.5103	.2071	.2564
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.68	26.45	25.79	.5249	.5222	25.75	.5250	.4959	.5115	2.052
Stddev	.14	.08	.18	.0013	.0006	.07	.0009	.0014	.0019	.003
%RSD	.5112	.3017	.7047	.2468	.1156	.2759	.1763	.2883	.3759	.1610
#1	27.64	26.42	25.61	.5238	.5228	25.74	.5241	.4967	.5104	2.049
#2	27.56	26.39	25.79	.5245	.5216	25.69	.5250	.4942	.5104	2.051
#3	27.84	26.54	25.97	.5263	.5223	25.83	.5260	.4967	.5137	2.055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0168	.5441	.5123	.5297	1.998	.4867	.5102
Stddev	.0005	.0002	.0012	.0009	.000	.0012	.0010
%RSD	3.142	.0315	.2328	.1641	.0116	.2408	.2007
#1	.0167	.5439	.5131	.5297	1.998	.4875	.5091
#2	.0173	.5442	.5109	.5288	1.999	.4872	.5111
#3	.0163	.5442	.5128	.5305	1.998	.4853	.5105
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: MP31640-B1 Acquired: 2/15/2017 13:37:33 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1844.6	5125.6	39251.	4329.6
Stddev	2.0	5.3	76.	41.7
%RSD	.10753	.10435	.19382	.96211
#1	1846.8	5131.6	39328.	4363.0
#2	1844.1	5123.9	39248.	4342.8
#3	1842.9	5121.4	39176.	4282.9

Zoom In Zoom Out

Sample Name: MP31640-B2 Acquired: 2/15/2017 13:41:31 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0469	28.16	2.051	2.168	.0532	26.48	.0515	.5149	.2102	.2625
Stddev	.0004	.04	.004	.000	.0002	.10	.0000	.0003	.0005	.0004
%RSD	.8410	.1500	.1863	.0161	.3261	.3813	.0634	.0559	.2476	.1432
#1	.0465	28.11	2.055	2.167	.0530	26.36	.0515	.5152	.2098	.2622
#2	.0469	28.19	2.053	2.168	.0534	26.56	.0516	.5146	.2101	.2623
#3	.0473	28.18	2.047	2.168	.0532	26.51	.0515	.5149	.2108	.2629
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.58	26.47	26.06	.5382	.5223	25.96	.5279	.5016	.5175	2.058
Stddev	.07	.04	.07	.0020	.0003	.05	.0014	.0010	.0015	.004
%RSD	.2409	.1512	.2798	.3625	.0601	.1748	.2651	.2072	.2949	.2136
#1	27.53	26.44	26.14	.5369	.5227	25.91	.5270	.5017	.5163	2.053
#2	27.57	26.52	26.01	.5372	.5221	26.00	.5295	.5026	.5193	2.062
#3	27.66	26.47	26.03	.5404	.5222	25.98	.5273	.5005	.5170	2.059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0165	.5428	.5145	.5370	2.028	.4912	.5137
Stddev	.0007	.0011	.0009	.0014	.005	.0002	.0005
%RSD	4.448	.2020	.1741	.2608	.2256	.0306	.1025
#1	.0173	.5415	.5139	.5366	2.029	.4910	.5141
#2	.0158	.5435	.5142	.5358	2.032	.4913	.5138
#3	.0164	.5434	.5156	.5385	2.023	.4912	.5131
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: MP31640-B2 Acquired: 2/15/2017 13:41:31 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1832.8	5108.2	38945.	4293.3
Stddev	3.5	7.1	84.	22.1
%RSD	.19014	.13820	.21584	.51506
#1	1835.7	5114.6	39025.	4312.7
#2	1828.9	5100.6	38952.	4269.2
#3	1833.8	5109.4	38857.	4298.0

Zoom In Zoom Out

Sample Name: CCV Acquired: 2/15/2017 13:45:29 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2658	40.22	2.012	2.060	2.003	40.36	2.034	2.029	2.045	2.011
Stddev	.0007	.03	.003	.006	.001	.02	.003	.002	.004	.006
%RSD	.2747	.0868	.1490	.3000	.0468	.0571	.1238	.1070	.2011	.2994
#1	.2650	40.24	2.009	2.067	2.004	40.39	2.031	2.026	2.041	2.009
#2	.2658	40.23	2.015	2.058	2.003	40.34	2.036	2.031	2.049	2.006
#3	.2665	40.18	2.012	2.055	2.003	40.36	2.034	2.029	2.045	2.018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.60	40.53	40.60	2.096	2.072	40.29	2.045	2.007	2.013	2.039
Stddev	.15	.08	.08	.007	.001	.05	.002	.003	.006	.010
%RSD	.3763	.2058	.2021	.3286	.0664	.1335	.1158	.1323	.3060	.4746
#1	40.77	40.45	40.51	2.090	2.071	40.35	2.048	2.007	2.009	2.041
#2	40.57	40.53	40.67	2.104	2.074	40.26	2.045	2.005	2.020	2.047
#3	40.48	40.62	40.60	2.095	2.072	40.25	2.043	2.010	2.011	2.028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.654	2.080	2.062	2.108	2.023	2.072	2.031
Stddev	.003	.001	.003	.006	.001	.006	.003
%RSD	.1860	.0438	.1420	.2933	.0596	.3064	.1344
#1	1.652	2.079	2.065	2.103	2.021	2.066	2.028
#2	1.657	2.081	2.060	2.115	2.023	2.079	2.033
#3	1.652	2.080	2.060	2.107	2.024	2.072	2.031
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 2/15/2017 13:45:29 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1748.7	4984.4	37724.	4240.2
Stddev	2.3	7.4	135.	5.5
%RSD	.13068	.14870	.35847	.12858
#1	1749.8	4992.9	37867.	4243.1
#2	1750.2	4979.4	37598.	4233.9
#3	1746.0	4980.9	37706.	4243.6

Zoom In Zoom Out

Sample Name: CCB Acquired: 2/15/2017 13:49:25 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0087	.0003	.0003	.0001	.0032	.0001	.0000	.0000
Stddev	.0002	.0041	.0002	.0002	.0001	.0026	.0000	.0001	.000
%RSD	185.4	47.70	53.62	62.41	111.4	83.37	54.23	301.8	687.8
#1	-.0002	.0076	.0001	.0005	.0002	.0047	.0001	-.0001	-.0002
#2	-.0001	.0052	.0004	.0002	.0000	.0001	.0001	.0002	.0001
#3	.0001	.0132	.0004	.0002	.0000	.0047	.0000	.0001	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0151	.0515	.0083	.0001	F.0013	.0806	.0003	-.0001
Stddev	.0002	.0022	.0118	.0068	.0000	.0004	.0069	.0001	.0005
%RSD	440.0	14.47	22.80	82.21	36.91	31.78	8.513	43.06	390.3
#1	.0000	.0160	.0626	.0011	.0001	.0017	.0761	.0004	-.0004
#2	.0002	.0167	.0528	.0091	.0001	.0014	.0885	.0002	-.0003
#3	-.0003	.0126	.0392	.0148	.0001	.0008	.0772	.0002	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0010	.0001	.0000	.0002	.0004	-.0003	-.0002	.0001
Stddev	.0003	.0014	.0005	.0001	.0001	.0000	.0005	.0002	.0000
%RSD	69.84	139.8	799.7	16860.	57.14	13.30	170.3	152.9	6.461
#1	.0001	.0003	.0006	.0001	.0003	.0003	.0001	.0000	.0001
#2	.0005	.0000	-.0002	.0000	.0001	.0004	-.0009	.0000	.0001
#3	.0008	.0026	-.0002	-.0002	.0001	.0004	-.0001	-.0004	.0001
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 2/15/2017 13:49:25 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1951.6	5186.1	39593.	4249.9
Stddev	2.4	4.1	93.	10.0
%RSD	.12204	.07866	.23492	.23583
#1	1949.7	5185.6	39485.	4257.5
#2	1950.7	5182.4	39650.	4253.6
#3	1954.3	5190.5	39643.	4238.5

Zoom In Zoom Out

Sample Name: FA40864-1 Acquired: 2/15/2017 13:53:42 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0010	.7379	.0142	.6253	.0000	1.358	.0015	.0067	.0216	.8538
Stddev	.0006	.0039	.0010	.0015	.000	.007	.0000	.0000	.0001	.0027
%RSD	62.86	.5332	6.880	.2387	146.7	.5277	2.994	.5086	.5366	.3162
#1	.0003	.7421	.0153	.6255	-.0001	1.352	.0016	.0068	.0215	.8567
#2	.0011	.7373	.0138	.6266	.0000	1.366	.0015	.0067	.0215	.8533
#3	.0016	.7343	.0135	.6237	.0000	1.356	.0015	.0068	.0217	.8513

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	37.71	.1602	.1724	.4142	.0222	.2970	.1174	.0475	.0039	.0048
Stddev	.04	.0102	.0282	.0019	.0001	.0071	.0001	.0002	.0016	.0008
%RSD	.1175	6.394	16.38	.4691	.3454	2.382	.0659	.3552	41.10	16.23
#1	37.73	.1682	.1800	.4161	.0223	.3010	.1174	.0475	.0038	.0039
#2	37.74	.1639	.1961	.4122	.0223	.3011	.1174	.0473	.0056	.0051
#3	37.66	.1487	.1412	.4143	.0221	.2888	.1173	.0476	.0024	.0054

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.4835	.0776	.0061	.0129	-.0002	.0017	1.207
Stddev	.0009	.0006	.0001	.0001	.0002	.0001	.002
%RSD	.1867	.8069	.9311	1.015	115.4	8.037	.1687
#1	.4827	.0783	.0060	.0131	-.0005	.0019	1.210
#2	.4845	.0773	.0061	.0129	-.0001	.0017	1.206
#3	.4833	.0772	.0061	.0128	.0000	.0016	1.207

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1944.6	5147.6	39636.	4212.9
Stddev	6.3	13.4	45.	27.2
%RSD	.32189	.26064	.11257	.64625
#1	1940.2	5133.3	39615.	4240.5
#2	1951.7	5159.8	39687.	4186.1
#3	1941.7	5149.7	39605.	4212.1

Zoom In Zoom Out

Sample Name: FA41089-1 Acquired: 2/15/2017 13:57:51 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0003	.0229	.0015	.0091	-.0001	.7160	.0427	.0000	.0037	.0536
Stddev	.0006	.0025	.0006	.0001	.0000	.0038	.0000	.0000	.0002	.0005
%RSD	214.6	10.76	42.73	.7641	28.31	.5268	.0949	80.75	4.771	.9242
#1	-.0001	.0258	.0014	.0090	-.0002	.7200	.0427	.0001	.0036	.0541
#2	.0002	.0216	.0021	.0092	-.0001	.7124	.0427	.0001	.0039	.0533
#3	-.0010	.0214	.0008	.0091	-.0001	.7156	.0427	.0000	.0036	.0533

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.2118	.0701	.1268	.0017	.0224	.1799	.0025	.0073	.0021	.0011
Stddev	.0024	.0491	.0160	.0001	.0002	.0018	.0002	.0008	.0005	.0006
%RSD	1.116	70.07	12.65	3.225	.8948	.9977	7.346	10.56	23.36	51.61
#1	.2142	.0329	.1155	.0017	.0222	.1817	.0025	.0073	.0017	.0015
#2	.2095	.0515	.1452	.0016	.0226	.1781	.0024	.0081	.0019	.0005
#3	.2116	.1257	.1199	.0017	.0223	.1801	.0027	.0066	.0026	.0013

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1825	.0251	.0039	.0074	-.0011	.0000	.3105
Stddev	.0004	.0002	.0001	.0001	.0009	.0001	.0005
%RSD	.2093	.8866	2.357	1.186	82.42	221.5	.1616
#1	.1823	.0249	.0039	.0074	-.0001	.0000	.3101
#2	.1822	.0251	.0038	.0075	-.0012	.0000	.3103
#3	.1829	.0253	.0040	.0073	-.0019	.0001	.3111

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1977.5	5180.8	39880.	4235.8
Stddev	2.4	7.0	197.	32.7
%RSD	.12022	.13608	.49437	.77102
#1	1979.9	5182.6	39821.	4213.4
#2	1977.5	5186.8	39719.	4273.3
#3	1975.2	5173.1	40100.	4220.6

Zoom In Zoom Out

Sample Name: CCV Acquired: 2/15/2017 14:08:44 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2674	40.06	2.015	2.067	1.989	40.16	2.029	2.025	2.039	2.017
Stddev	.0017	.07	.001	.002	.003	.07	.000	.001	.006	.002
%RSD	.6407	.1808	.0678	.1022	.1538	.1653	.0049	.0570	.2982	.0799
#1	.2654	40.11	2.015	2.070	1.989	40.18	2.029	2.026	2.032	2.015
#2	.2683	40.09	2.013	2.066	1.993	40.21	2.029	2.026	2.043	2.018
#3	.2685	39.97	2.016	2.066	1.987	40.08	2.029	2.024	2.041	2.018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.31	40.44	40.34	2.092	2.073	40.27	2.050	2.003	2.018	2.052
Stddev	.05	.12	.06	.012	.002	.08	.004	.002	.002	.003
%RSD	.1340	.2891	.1478	.5658	.0994	.1962	.1736	.0979	.1188	.1467
#1	40.25	40.54	40.29	2.079	2.075	40.29	2.054	2.002	2.021	2.051
#2	40.36	40.48	40.41	2.095	2.074	40.34	2.047	2.005	2.017	2.050
#3	40.32	40.31	40.32	2.103	2.071	40.19	2.049	2.002	2.017	2.056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.663	2.078	2.053	2.110	2.021	2.070	2.018
Stddev	.005	.001	.004	.008	.004	.007	.002
%RSD	.3021	.0463	.1734	.3873	.2238	.3328	.0886
#1	1.667	2.077	2.052	2.101	2.016	2.063	2.016
#2	1.657	2.078	2.057	2.113	2.022	2.077	2.018
#3	1.663	2.079	2.049	2.117	2.024	2.070	2.019
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 2/15/2017 14:08:44 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1756.1	5006.9	37932.	4289.5
Stddev	1.6	1.7	198.	23.4
%RSD	.09039	.03344	.52081	.54640
#1	1757.1	5006.0	38151.	4284.9
#2	1757.0	5005.9	37768.	4268.6
#3	1754.3	5008.8	37876.	4314.8

Zoom In Zoom Out

Sample Name: CCB Acquired: 2/15/2017 14:15:13 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	-.0016	.0002	.0001	.0000	.0014	.0000	-.0001	.0000	.0002
Stddev	.0003	.0053	.0008	.0002	.000	.0024	.0000	.0000	.0002	.0000
%RSD	162.8	341.3	326.2	240.5	226.7	167.4	84.23	25.98	3471.	19.63
#1	-.0004	.0042	.0007	.0001	.0000	-.0012	.0001	-.0001	-.0002	.0003
#2	-.0002	-.0063	-.0006	-.0001	.0000	.0034	.0000	-.0001	-.0001	.0002
#3	.0001	-.0025	.0007	.0003	.0000	.0022	.0000	-.0001	.0003	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0065	.0330	.0238	.0001	.0004	.0469	.0002	-.0003	.0007	.0018
Stddev	.0015	.0220	.0153	.0000	.0001	.0041	.0002	.0003	.0002	.0023
%RSD	22.80	66.67	64.33	50.45	32.37	8.806	137.3	106.4	22.27	133.4
#1	.0072	.0303	.0378	.0001	.0005	.0507	-.0001	.0001	.0005	.0007
#2	.0048	.0563	.0075	.0001	.0003	.0425	.0003	-.0005	.0008	.0001
#3	.0074	.0125	.0262	.0001	.0005	.0474	.0004	-.0005	.0008	.0044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0004	.0002	.0001	.0003	-.0001	.0001
Stddev	.0003	.0001	.0001	.0001	.0008	.0002	.0000
%RSD	389.0	41.23	28.91	101.2	290.1	235.8	27.39
#1	-.0002	.0003	.0002	.0000	.0002	-.0002	.0001
#2	.0001	.0002	.0002	.0001	-.0005	.0001	.0002
#3	.0004	.0005	.0001	.0003	.0011	-.0001	.0001
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: CCB Acquired: 2/15/2017 14:15:13 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1944.9	5195.1	39646.	4276.4
Stddev	.9	10.3	188.	20.0
%RSD	.04683	.19767	.47297	.46697
#1	1944.2	5190.0	39562.	4299.2
#2	1944.6	5188.3	39515.	4262.2
#3	1946.0	5206.9	39861.	4267.7

Zoom In Zoom Out

Sample Name: MP31639-MB1 Acquired: 2/15/2017 14:19:08 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-.0012	-.0007	-.0001	-.0001	.0100	.0000	-.0001	.0002	-.0002
Stddev	.000	.0105	.0007	.0001	.0000	.0014	.000	.0000	.0000	.0001
%RSD	950.6	854.2	100.8	45.77	57.13	13.74	13.03	28.00	22.12	79.53
#1	-.0002	.0093	-.0004	-.0002	-.0001	.0110	.0000	-.0001	.0003	.0000
#2	-.0003	-.0116	-.0002	-.0001	.0000	.0084	.0000	-.0002	.0002	-.0002
#3	.0003	-.0013	-.0014	-.0002	.0000	.0105	.0000	-.0001	.0002	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043	.0023	.0018	.0000	.0000	.0531	.0002	-.0002	.0010	.0009
Stddev	.0045	.0158	.0050	.000	.000	.0046	.0001	.0009	.0010	.0003
%RSD	104.8	679.5	272.5	129.6	951.5	8.605	69.67	504.8	99.38	28.05
#1	.0038	-.0101	.0069	-.0001	.0001	.0551	.0002	-.0005	.0014	.0008
#2	.0000	-.0030	.0019	.0000	-.0001	.0479	.0001	-.0008	-.0001	.0008
#3	.0090	.0201	-.0032	.0000	-.0001	.0564	.0004	.0008	.0017	.0012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0127	.0002	.0001	.0001	-.0011	-.0002	.0010
Stddev	.0006	.0001	.0001	.0000	.0011	.0002	.0001
%RSD	4.532	60.38	42.08	61.58	102.5	113.4	10.74
#1	.0132	.0003	.0001	.0000	-.0021	-.0004	.0011
#2	.0128	.0003	.0002	.0000	.0001	.0000	.0009
#3	.0121	.0001	.0001	.0001	-.0014	-.0001	.0009
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: MP31639-MB1 Acquired: 2/15/2017 14:19:08 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1945.8	5184.4	39763.	4245.6
Stddev	3.3	3.6	72.	21.4
%RSD	.16764	.06868	.18165	.50367
#1	1948.3	5181.6	39801.	4255.5
#2	1942.1	5183.2	39807.	4260.2
#3	1946.9	5188.4	39679.	4221.0

Zoom In Zoom Out

Sample Name: MP31639-B1 Acquired: 2/15/2017 14:23:26 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0474	28.29	2.069	2.182	.0537	26.55	.0520	.5189	.2125	.2637
Stddev	.0005	.09	.002	.005	.0002	.10	.0000	.0002	.0006	.0018
%RSD	1.016	.3173	.1182	.2378	.3451	.3823	.0509	.0356	.2855	.6670
#1	.0468	28.22	2.067	2.177	.0535	26.49	.0520	.5191	.2119	.2652
#2	.0477	28.39	2.071	2.182	.0538	26.67	.0520	.5187	.2123	.2617
#3	.0476	28.25	2.069	2.187	.0539	26.49	.0521	.5188	.2131	.2642
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.80	26.49	26.02	.5434	.5246	26.28	.5312	.5088	.5252	2.074
Stddev	.11	.05	.13	.0022	.0007	.09	.0005	.0013	.0008	.003
%RSD	.3817	.2034	.4981	.4117	.1419	.3358	.1009	.2649	.1450	.1269
#1	27.71	26.45	25.91	.5441	.5243	26.22	.5318	.5075	.5258	2.071
#2	27.92	26.55	26.16	.5409	.5254	26.38	.5309	.5102	.5255	2.076
#3	27.78	26.46	25.98	.5452	.5240	26.24	.5309	.5087	.5244	2.075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0173	.5243	.5183	.5380	2.055	.4958	.5188
Stddev	.0001	.0011	.0015	.0008	.004	.0010	.0008
%RSD	.7965	.2090	.2906	.1571	.1775	.1934	.1619
#1	.0172	.5247	.5167	.5386	2.055	.4949	.5197
#2	.0173	.5252	.5197	.5371	2.059	.4968	.5185
#3	.0174	.5231	.5185	.5384	2.051	.4958	.5182
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: MP31639-B1 Acquired: 2/15/2017 14:23:26 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1816.3	5077.8	38338.	4243.6
Stddev	3.6	9.1	131.	30.3
%RSD	.19854	.17992	.34054	.71410
#1	1812.3	5067.7	38340.	4248.6
#2	1819.3	5080.1	38468.	4211.2
#3	1817.4	5085.5	38207.	4271.2

Zoom In Zoom Out

Sample Name: FA40942-37A Acquired: 2/15/2017 14:27:26 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0008	1.235	-.0003	.1402	-.0001	300.2	-.0002	.0001	.0345	.2879
Stddev	.0002	.002	.0011	.0005	.0000	2.1	.0000	.0001	.0003	.0004
%RSD	30.10	.1977	397.1	.3874	29.79	.7085	18.63	49.45	.7341	.1324
#1	-.0005	1.232	-.0007	.1404	-.0001	302.5	-.0002	.0001	.0342	.2876
#2	-.0008	1.237	.0010	.1406	-.0001	299.6	-.0003	.0002	.0346	.2884
#3	-.0010	1.237	-.0011	.1396	.0000	298.4	-.0002	.0001	.0347	.2878

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0081	4.550	.0627	.0001	.0363	8.325	.0059	.0068	.0022	.0014
Stddev	.0018	.030	.0391	.0001	.0001	.026	.0002	.0010	.0010	.0004
%RSD	22.18	.6603	62.43	105.6	.3789	.3094	3.339	14.17	47.09	30.31
#1	.0101	4.551	.0604	.0000	.0364	8.355	.0059	.0076	.0016	.0016
#2	.0073	4.519	.0247	.0001	.0362	8.310	.0057	.0069	.0034	.0018
#3	.0068	4.579	.1029	.0001	.0363	8.311	.0061	.0057	.0016	.0009

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.378	.0002	.7827	.0004	-.0010	.0042	.0194
Stddev	.009	.0001	.0029	.0000	.0003	.0001	.0001
%RSD	.6164	44.10	.3675	10.18	30.46	3.020	.5985
#1	1.371	.0003	.7861	.0004	-.0011	.0042	.0195
#2	1.375	.0003	.7812	.0004	-.0007	.0041	.0193
#3	1.387	.0001	.7810	.0004	-.0013	.0044	.0195

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1769.3	4874.9	37134.	4203.2
Stddev	3.3	13.3	175.	29.6
%RSD	.18829	.27303	.47242	.70517
#1	1768.8	4881.4	37088.	4169.8
#2	1772.9	4883.8	37328.	4226.3
#3	1766.3	4859.6	36986.	4213.6

Zoom In Zoom Out

Sample Name: MP31639-D1 Acquired: 2/15/2017 14:31:45 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0002	1.234	-.0003	.1437	.0000	307.7	-.0003	.0001	.0352	.2890
Stddev	.0002	.017	.0004	.0003	.000	3.0	.0001	.0001	.0002	.0013
%RSD	101.1	1.334	133.4	.1891	81.55	.9601	18.07	42.50	.6694	.4354
#1	-.0002	1.249	-.0004	.1439	.0000	310.8	-.0003	.0002	.0351	.2903
#2	-.0003	1.238	.0001	.1436	-.0001	307.3	-.0003	.0001	.0351	.2889
#3	.0000	1.216	-.0005	.1434	.0000	304.9	-.0003	.0002	.0355	.2878

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0033	4.669	.0539	.0000	.0368	8.482	.0061	.0072	.0018	.0001
Stddev	.0014	.010	.0085	.0000	.0001	.046	.0003	.0013	.0016	.0009
%RSD	42.37	.2046	15.72	299.4	.4028	.5456	4.094	18.63	88.90	934.8
#1	.0045	4.658	.0487	.0000	.0366	8.523	.0061	.0065	.0035	-.0003
#2	.0036	4.674	.0637	.0000	.0368	8.490	.0058	.0064	.0016	.0011
#3	.0018	4.674	.0493	.0000	.0369	8.432	.0063	.0088	.0003	-.0005

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.454	.0002	.7930	.0003	-.0009	.0041	.0193
Stddev	.007	.0002	.0054	.0001	.0021	.0002	.0000
%RSD	.5141	99.63	.6873	41.87	234.3	5.735	.2386
#1	1.452	.0001	.7970	.0004	.0015	.0038	.0194
#2	1.448	.0001	.7951	.0003	-.0025	.0042	.0193
#3	1.462	.0005	.7868	.0001	-.0017	.0043	.0193

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1754.0	4799.4	36958.	4182.1
Stddev	3.0	5.1	83.	37.2
%RSD	.17205	.10699	.22440	.88900
#1	1754.3	4794.6	37051.	4142.6
#2	1756.9	4804.8	36930.	4187.3
#3	1750.9	4798.8	36892.	4216.4

Zoom In Zoom Out

Sample Name: MP31639-SD1 Acquired: 2/15/2017 14:36:04 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0004	1.183	.0011	.1414	.0002	311.4	-.0001	-.0006	.0360	.2849
Stddev	.0011	.022	.0012	.0006	.0004	1.2	.0004	.0004	.0005	.0005
%RSD	268.1	1.843	114.4	.4423	169.8	.3703	259.7	68.16	1.318	.1886
#1	.0009	1.206	.0025	.1421	-.0002	310.1	.0003	-.0008	.0359	.2844
#2	-.0011	1.181	.0007	.1412	.0007	312.0	-.0004	-.0009	.0365	.2855
#3	-.0010	1.163	.0000	.1409	.0002	312.2	-.0003	-.0001	.0356	.2846

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0061	4.714	.0403	.0000	.0330	8.511	.0061	.0041	.0031	.0012
Stddev	.0136	.082	.1256	.000	.0004	.050	.0009	.0024	.0020	.0113
%RSD	223.1	1.736	312.0	462.4	1.338	.5919	14.96	58.50	66.20	974.0
#1	.0039	4.795	-.0155	.0000	.0328	8.505	.0071	.0043	.0052	.0112
#2	-.0063	4.715	-.0478	-.0002	.0327	8.564	.0053	.0063	.0011	-.0111
#3	.0207	4.631	.1841	.0001	.0335	8.464	.0058	.0016	.0029	.0034

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.411	-.0003	.7854	.0024	-.0012	.0030	.0791
Stddev	.004	.0002	.0015	.0006	.0036	.0005	.0003
%RSD	.3041	78.76	.1876	25.74	296.3	15.95	.4346
#1	1.407	-.0001	.7837	.0032	.0007	.0028	.0790
#2	1.411	-.0005	.7862	.0021	.0010	.0027	.0789
#3	1.416	-.0002	.7862	.0020	-.0054	.0036	.0795

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1890.1	5063.7	38591.	4242.0
Stddev	.9	6.6	39.	34.7
%RSD	.04602	.12953	.09989	.81698
#1	1889.2	5060.8	38569.	4280.8
#2	1890.1	5059.1	38636.	4231.3
#3	1890.9	5071.2	38569.	4214.0

Zoom In Zoom Out

Sample Name: MP31639-S1 Acquired: 2/15/2017 14:40:15 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0482	29.89	2.129	2.334	.0535	312.6	.0507	.5066	.2406	.5387
Stddev	.0003	.14	.002	.009	.0001	2.1	.0000	.0008	.0011	.0016
%RSD	.5312	.4848	.1145	.3781	.1874	.6809	.0601	.1655	.4604	.3004
#1	.0484	30.04	2.126	2.344	.0536	313.5	.0507	.5058	.2412	.5405
#2	.0479	29.86	2.131	2.333	.0536	310.2	.0507	.5067	.2394	.5381
#3	.0482	29.75	2.130	2.326	.0534	314.1	.0507	.5075	.2413	.5374

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	27.40	31.68	25.47	.5365	.5575	34.71	.5281	.5170	.5330	2.139
Stddev	.10	.10	.12	.0013	.0019	.13	.0006	.0009	.0014	.006
%RSD	.3729	.3252	.4713	.2507	.3481	.3876	.1194	.1780	.2575	.2969
#1	27.50	31.78	25.58	.5357	.5554	34.85	.5278	.5160	.5318	2.134
#2	27.40	31.67	25.34	.5381	.5578	34.68	.5288	.5174	.5345	2.138
#3	27.29	31.58	25.48	.5358	.5592	34.59	.5276	.5177	.5327	2.146

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.353	.5165	1.270	.5427	2.042	.5026	.5198
Stddev	.002	.0011	.007	.0011	.008	.0016	.0005
%RSD	.1374	.2093	.5205	.1970	.4136	.3098	.0993
#1	1.355	.5152	1.277	.5417	2.037	.5032	.5195
#2	1.351	.5170	1.269	.5438	2.038	.5008	.5196
#3	1.353	.5172	1.264	.5426	2.052	.5037	.5204

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1703.6	4935.5	37175.	4245.9
Stddev	2.0	1.2	61.	20.5
%RSD	.11693	.02428	.16522	.48187
#1	1705.5	4934.7	37110.	4232.5
#2	1703.9	4936.9	37233.	4269.5
#3	1701.5	4934.8	37181.	4235.8

Zoom In Zoom Out

Sample Name: MP31639-S2 Acquired: 2/15/2017 14:44:23 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0481	29.90	2.119	2.327	.0534	319.4	.0504	.5040	.2398	.5428
Stddev	.0003	.07	.006	.013	.0001	3.0	.0000	.0008	.0011	.0010
%RSD	.5634	.2399	.2931	.5363	.1612	.9471	.0903	.1495	.4760	.1889
#1	.0484	29.82	2.112	2.329	.0534	316.7	.0503	.5032	.2409	.5436
#2	.0480	29.93	2.123	2.314	.0535	322.7	.0504	.5044	.2386	.5431
#3	.0478	29.95	2.121	2.339	.0534	318.9	.0504	.5045	.2399	.5417

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	27.33	31.67	25.35	.5300	.5555	34.76	.5236	.5152	.5327	2.119
Stddev	.06	.09	.09	.0009	.0016	.05	.0014	.0015	.0014	.012
%RSD	.2355	.2695	.3651	.1756	.2872	.1472	.2601	.2889	.2584	.5635
#1	27.29	31.60	25.34	.5295	.5537	34.70	.5223	.5148	.5323	2.105
#2	27.29	31.65	25.27	.5295	.5568	34.78	.5251	.5168	.5343	2.127
#3	27.40	31.77	25.45	.5311	.5560	34.79	.5235	.5139	.5317	2.125

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.377	.5133	1.286	.5373	2.030	.4968	.5173
Stddev	.003	.0010	.003	.0005	.006	.0009	.0011
%RSD	.1984	.1995	.1944	.0910	.2850	.1858	.2097
#1	1.375	.5121	1.286	.5369	2.031	.4976	.5163
#2	1.380	.5137	1.284	.5370	2.024	.4958	.5170
#3	1.375	.5140	1.289	.5378	2.036	.4971	.5184

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1705.0	4942.9	37567.	4260.1
Stddev	3.4	8.4	25.	18.2
%RSD	.20205	.16925	.06658	.42826
#1	1704.3	4947.9	37585.	4280.6
#2	1708.8	4947.5	37577.	4245.8
#3	1702.0	4933.2	37539.	4253.8

Zoom In Zoom Out

Sample Name: FA40942-36A Acquired: 2/15/2017 14:48:29 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0001	.7762	.0015	.0705	.0000	157.0	-.0001	-.0001	.1495	.3428
Stddev	.0002	.0040	.0005	.0004	.0001	.2	.0000	.0001	.0007	.0002
%RSD	235.9	.5149	34.85	.5713	313.5	.1364	13.36	82.64	.4976	.0504
#1	-.0002	.7789	.0018	.0702	.0000	157.2	-.0001	-.0002	.1502	.3428
#2	-.0002	.7780	.0017	.0710	.0000	156.7	-.0001	.0000	.1487	.3426
#3	.0001	.7716	.0009	.0704	.0001	157.0	-.0001	-.0002	.1495	.3430

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0123	2.927	.1006	.0000	.0316	14.88	.0006	-.0001	.0028	.0010
Stddev	.0017	.010	.0058	.0000	.0002	.03	.0001	.0005	.0009	.0020
%RSD	14.05	.3476	5.723	56.96	.7104	.1804	20.84	347.6	31.13	198.8
#1	.0142	2.934	.1035	.0001	.0318	14.87	.0008	-.0003	.0033	.0030
#2	.0109	2.931	.0940	.0000	.0314	14.85	.0005	.0004	.0034	-.0009
#3	.0118	2.915	.1043	.0000	.0315	14.91	.0007	-.0005	.0018	.0009

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.082	.0001	.3770	.0008	.0008	.0285	.0040
Stddev	.004	.0001	.0010	.0001	.0015	.0001	.0001
%RSD	.0908	127.5	.2616	15.53	188.9	.3180	1.942
#1	4.085	.0002	.3781	.0009	.0022	.0286	.0041
#2	4.078	.0002	.3763	.0007	.0010	.0284	.0039
#3	4.082	.0000	.3765	.0007	-.0008	.0286	.0040

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1823.5	4964.1	37956.	4257.8
Stddev	8.5	7.4	185.	17.5
%RSD	.46390	.14841	.48635	.41079
#1	1828.2	4968.8	37759.	4260.2
#2	1828.6	4967.9	38124.	4273.9
#3	1813.7	4955.6	37985.	4239.2

Zoom In Zoom Out

Sample Name: FA40942-38A Acquired: 2/15/2017 14:52:41 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0004	.7793	-.0003	.1611	.0000	361.8	-.0003	.0000	.0492	.3039
Stddev	.0003	.0241	.0010	.0008	.0001	2.7	.0000	.000	.0004	.0003
%RSD	72.84	3.093	386.7	.4930	237.8	.7417	9.268	292.0	.8309	.1089
#1	-.0001	.7584	.0001	.1604	.0001	358.9	-.0003	.0000	.0489	.3039
#2	-.0005	.8057	-.0014	.1620	.0000	362.3	-.0003	.0000	.0496	.3036
#3	-.0005	.7739	.0005	.1610	.0000	364.2	-.0002	-.0002	.0490	.3043

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0007	4.884	.0388	.0000	.0300	8.406	.0017	.0059	.0014	.0005
Stddev	.0035	.006	.0106	.000	.0002	.023	.0002	.0006	.0007	.0014
%RSD	507.6	.1278	27.24	126.0	.7210	.2692	12.35	10.50	50.04	302.1
#1	-.0033	4.881	.0287	.0000	.0297	8.381	.0015	.0063	.0011	-.0011
#2	.0021	4.879	.0379	.0000	.0301	8.415	.0018	.0062	.0009	.0013
#3	.0033	4.891	.0498	-.0001	.0301	8.423	.0020	.0052	.0022	.0012

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.083	-.0003	.8027	.0000	-.0017	.0046	.0502
Stddev	.011	.0003	.0007	.0000	.0006	.0000	.0001
%RSD	.9896	96.51	.0843	117.8	34.10	1.002	.1084
#1	1.084	-.0001	.8021	.0000	-.0012	.0046	.0502
#2	1.093	-.0001	.8025	.0000	-.0015	.0045	.0502
#3	1.072	-.0005	.8034	.0001	-.0023	.0046	.0503

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1749.0	4853.9	36970.	4226.3
Stddev	1.2	4.6	85.	18.1
%RSD	.06862	.09426	.22951	.42847
#1	1747.6	4858.7	37055.	4244.2
#2	1749.5	4853.3	36886.	4226.8
#3	1749.9	4849.6	36969.	4208.0

Zoom In Zoom Out

Sample Name: FA40942-39A Acquired: 2/15/2017 14:57:01 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0004	1.729	.0010	.0764	-.0001	215.8	-.0002	-.0001	.1310	.5103
Stddev	.0004	.019	.0014	.0006	.0001	.2	.0001	.0001	.0006	.0012
%RSD	118.5	1.098	135.9	.7420	76.92	.1075	32.25	59.99	.4617	.2321
#1	.0001	1.729	.0000	.0767	-.0001	215.8	-.0002	-.0002	.1304	.5114
#2	-.0007	1.748	.0005	.0758	.0000	215.6	-.0001	-.0001	.1310	.5105
#3	-.0006	1.710	.0026	.0768	-.0001	216.1	-.0002	-.0001	.1316	.5090

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0061	4.796	.0736	.0001	.0855	8.584	.0052	.0011	.0009	.0009
Stddev	.0014	.013	.0135	.0001	.0001	.005	.0002	.0011	.0003	.0015
%RSD	23.59	.2646	18.40	88.11	.1312	.0579	4.050	95.83	39.88	173.1
#1	.0056	4.790	.0652	.0000	.0855	8.583	.0050	.0017	.0012	.0012
#2	.0050	4.811	.0663	.0001	.0853	8.580	.0055	.0018	.0009	-.0008
#3	.0077	4.788	.0892	.0000	.0855	8.590	.0052	-.0001	.0005	.0023

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	2.150	.0001	.4367	.0005	-.0011	.0080	.0086
Stddev	.001	.0002	.0001	.0001	.0002	.0002	.0001
%RSD	.0276	336.2	.0316	16.81	17.88	2.580	.9969
#1	2.149	.0003	.4367	.0006	-.0010	.0080	.0085
#2	2.150	-.0002	.4368	.0004	-.0011	.0081	.0086
#3	2.150	.0001	.4365	.0005	-.0014	.0077	.0086

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1795.7	4935.9	37748.	4205.3
Stddev	1.3	5.0	242.	21.5
%RSD	.07359	.10167	.64196	.51169
#1	1795.1	4933.2	37825.	4229.9
#2	1797.2	4932.9	37943.	4190.1
#3	1794.7	4941.7	37477.	4195.9

Zoom In Zoom Out

Sample Name: CCV Acquired: 2/15/2017 15:01:10 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2642	40.11	2.030	2.054	1.987	40.20	2.030	2.023	2.031	1.991
Stddev	.0002	.10	.003	.007	.006	.11	.001	.002	.004	.006
%RSD	.0831	.2604	.1489	.3338	.3081	.2708	.0711	.1003	.1916	.3097
#1	.2641	40.15	2.028	2.047	1.992	40.30	2.029	2.022	2.029	1.998
#2	.2645	40.19	2.028	2.061	1.989	40.20	2.030	2.022	2.036	1.991
#3	.2641	39.99	2.033	2.056	1.980	40.09	2.032	2.026	2.029	1.985
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.05	40.86	40.51	2.065	2.061	40.40	2.064	1.990	2.002	2.067
Stddev	.13	.01	.06	.009	.003	.10	.002	.002	.005	.005
%RSD	.3178	.0136	.1504	.4232	.1551	.2357	.0928	.0819	.2734	.2281
#1	39.98	40.87	40.58	2.072	2.059	40.45	2.062	1.990	2.003	2.063
#2	40.20	40.87	40.49	2.068	2.059	40.45	2.064	1.992	1.996	2.067
#3	39.97	40.86	40.47	2.055	2.065	40.29	2.066	1.989	2.007	2.072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.672	2.088	2.050	2.084	2.010	2.063	2.017
Stddev	.004	.001	.006	.006	.001	.002	.001
%RSD	.2636	.0298	.2957	.2909	.0345	.1181	.0429
#1	1.668	2.088	2.056	2.090	2.010	2.066	2.018
#2	1.671	2.089	2.051	2.085	2.010	2.062	2.016
#3	1.677	2.088	2.044	2.078	2.009	2.061	2.017
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 2/15/2017 15:01:10 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1750.3	4971.6	37736.	4215.0
Stddev	.9	3.8	90.	10.9
%RSD	.04942	.07577	.23974	.25939
#1	1749.9	4971.7	37828.	4216.0
#2	1749.6	4975.3	37648.	4203.5
#3	1751.2	4967.8	37732.	4225.3

Zoom In Zoom Out

Sample Name: CCB Acquired: 2/15/2017 15:05:06 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	.0031	.0005	.0000	.0001	.0055	.0000	-.0002	.0002
Stddev	.0005	.0089	.0003	.0002	.0000	.0041	.0000	.0001	.0003
%RSD	122.5	291.2	70.06	482.9	58.99	75.62	54.02	51.10	183.6
#1	.0001	.0064	.0008	-.0002	.0001	.0085	.0000	-.0001	-.0001
#2	-.0009	.0098	.0002	.0002	.0001	.0071	.0000	-.0002	.0005
#3	-.0004	-.0071	.0004	.0001	.0000	.0008	.0000	-.0002	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0146	.0699	.0329	.0001	F.0013	.0638	.0002	.0001
Stddev	.0001	.0006	.0220	.0050	.0000	.0004	.0106	.0001	.0009
%RSD	60.11	4.120	31.38	15.15	48.26	35.16	16.60	44.79	874.8
#1	.0003	.0139	.0739	.0286	.0001	.0017	.0638	.0001	-.0007
#2	.0001	.0149	.0463	.0384	.0000	.0012	.0744	.0003	-.0002
#3	.0003	.0149	.0897	.0317	.0001	.0009	.0532	.0002	.0012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0005	.0002	.0000	.0001	.0004	.0007	-.0003	.0001
Stddev	.0005	.0015	.0004	.0001	.0001	.0001	.0003	.0002	.0000
%RSD	469.3	326.6	155.3	323.8	61.16	27.08	42.51	82.62	42.59
#1	.0006	.0012	.0003	-.0001	.0002	.0005	.0007	-.0003	.0002
#2	-.0003	-.0009	.0006	.0002	.0000	.0003	.0004	-.0005	.0001
#3	.0000	-.0017	-.0001	.0000	.0002	.0004	.0010	.0000	.0001
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 2/15/2017 15:05:06 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1945.3	5190.1	39239.	4295.4
Stddev	.7	4.7	270.	68.6
%RSD	.03615	.08964	.68763	1.5966
#1	1946.2	5190.2	39545.	4374.3
#2	1944.9	5194.6	39134.	4261.0
#3	1945.0	5185.3	39037.	4250.7

Zoom In Zoom Out

Sample Name: FA40942-40A Acquired: 2/15/2017 15:09:22 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0000	1.166	-.0001	.1608	.0000	304.3	-.0002	-.0001	.1356	.3653
Stddev	.000	.004	.0015	.0004	.000	7.8	.0000	.0001	.0002	.0003
%RSD	343.3	.3871	1172.	.2456	130.1	2.553	19.69	118.2	.1134	.0792
#1	.0001	1.170	-.0015	.1607	.0000	309.2	-.0002	-.0001	.1356	.3650
#2	.0000	1.167	.0015	.1605	.0000	308.3	-.0002	.0000	.1358	.3653
#3	-.0002	1.161	-.0004	.1612	-.0001	295.3	-.0002	-.0002	.1355	.3656

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0043	6.473	.0464	.0000	.0168	9.481	.0053	.0498	.0018	.0008
Stddev	.0018	.056	.0062	.000	.0001	.021	.0002	.0007	.0010	.0007
%RSD	42.33	.8676	13.34	98.05	.7586	.2210	3.902	1.404	56.76	84.04
#1	.0057	6.466	.0434	.0000	.0169	9.492	.0055	.0498	.0023	.0012
#2	.0022	6.532	.0423	.0000	.0167	9.494	.0053	.0505	.0006	.0013
#3	.0049	6.421	.0535	.0000	.0167	9.457	.0051	.0491	.0024	.0000

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.299	.0003	.8054	.0005	-.0007	.0024	.0083
Stddev	.001	.0000	.0024	.0002	.0018	.0001	.0000
%RSD	.0955	14.55	.2956	36.95	264.6	4.587	.2982
#1	1.298	.0003	.8031	.0007	-.0011	.0024	.0083
#2	1.298	.0003	.8079	.0005	.0013	.0025	.0083
#3	1.300	.0003	.8051	.0003	-.0022	.0023	.0082

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1766.7	4899.2	37286.	4210.7
Stddev	3.4	9.0	22.	54.7
%RSD	.19411	.18445	.06000	1.3002
#1	1765.9	4889.5	37309.	4171.8
#2	1770.4	4907.4	37284.	4187.0
#3	1763.7	4900.7	37265.	4273.3

Zoom In Zoom Out

Sample Name: FA40942-41A Acquired: 2/15/2017 15:13:44 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0001	2.611	.0006	.0544	.0000	157.6	-.0001	-.0002	.0362	.2192
Stddev	.0001	.013	.0004	.0002	.000	.6	.0000	.0001	.0003	.0015
%RSD	113.1	.4899	76.60	.2983	131.4	.3561	25.40	24.38	.7570	.6867
#1	.0000	2.616	.0008	.0544	.0000	158.1	-.0001	-.0003	.0362	.2188
#2	.0001	2.597	.0008	.0545	.0000	157.5	-.0001	-.0002	.0364	.2209
#3	.0002	2.621	.0001	.0542	.0000	157.0	-.0001	-.0002	.0359	.2180

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0037	6.641	.0550	.0000	.0389	10.48	.0002	.0021	.0034	.0024
Stddev	.0020	.008	.0097	.0001	.0001	.04	.0002	.0003	.0008	.0002
%RSD	55.33	.1226	17.58	3040.	.1343	.4156	114.9	13.92	22.41	6.865
#1	.0028	6.642	.0488	.0000	.0389	10.52	.0002	.0023	.0036	.0024
#2	.0022	6.632	.0661	.0000	.0388	10.48	.0000	.0018	.0041	.0025
#3	.0060	6.648	.0500	.0001	.0389	10.43	.0003	.0022	.0026	.0022

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	3.233	.0001	.3287	.0006	-.0010	.0126	.0030
Stddev	.009	.0001	.0014	.0001	.0005	.0001	.0001
%RSD	.2638	84.80	.4239	22.99	48.51	.6686	1.707
#1	3.231	.0000	.3300	.0005	-.0010	.0126	.0031
#2	3.226	.0002	.3287	.0005	-.0014	.0126	.0031
#3	3.242	.0002	.3272	.0008	-.0005	.0125	.0030

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1814.7	4987.5	38021.	4243.8
Stddev	2.8	6.2	195.	31.9
%RSD	.15419	.12355	.51192	.75061
#1	1817.2	4994.3	37999.	4209.9
#2	1811.7	4985.9	37839.	4248.4
#3	1815.3	4982.3	38226.	4273.1

Zoom In Zoom Out

Sample Name: FA40942-42A Acquired: 2/15/2017 15:17:54 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0004	9.892	.0000	.0431	.0000	105.9	-.0001	-.0002	.0324	.1791
Stddev	.0001	.040	.000	.0001	.0000	.4	.0001	.0002	.0002	.0003
%RSD	31.28	.4089	140.2	.2870	181.1	.3383	73.52	96.71	.4793	.1869
#1	.0005	9.854	.0000	.0430	.0000	105.9	-.0001	-.0003	.0326	.1788
#2	.0003	9.934	-.0001	.0432	.0001	106.3	-.0002	-.0001	.0322	.1794
#3	.0003	9.888	.0000	.0432	.0000	105.6	.0000	.0000	.0324	.1792

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(ln2306)	(Y_2243)	(Y_2243)
Avg	.0029	5.245	.0603	.0000	.0553	9.499	.0007	-.0010	.0048	.0023
Stddev	.0029	.024	.0194	.000	.0001	.034	.0000	.0005	.0016	.0010
%RSD	101.8	.4619	32.23	22.17	.1227	.3552	5.247	49.39	33.33	45.63
#1	.0029	5.272	.0408	.0000	.0553	9.496	.0007	-.0015	.0060	.0015
#2	.0000	5.235	.0604	.0000	.0552	9.534	.0007	-.0011	.0055	.0019
#3	.0058	5.226	.0797	.0000	.0554	9.467	.0008	-.0005	.0030	.0035

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(ln2306)	(Y_3600)	(Y_2243)
Avg	1.780	.0002	.2569	.0005	-.0012	.0125	.0015
Stddev	.002	.0000	.0011	.0001	.0012	.0002	.0000
%RSD	.1205	19.09	.4299	16.67	95.30	1.557	2.799
#1	1.781	.0002	.2566	.0006	-.0023	.0123	.0014
#2	1.778	.0003	.2581	.0004	.0000	.0127	.0015
#3	1.782	.0003	.2560	.0006	-.0014	.0126	.0015

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Avg	1847.0	5066.2	38870.	4283.0
Stddev	1.1	4.9	123.	18.2
%RSD	.05848	.09736	.31598	.42406
#1	1846.8	5063.8	38745.	4292.6
#2	1846.1	5062.8	38991.	4262.1
#3	1848.2	5071.8	38873.	4294.4

Zoom In Zoom Out

Sample Name: FA40942-43A Acquired: 2/15/2017 15:22:05 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0002	1.415	.0002	.0662	-.0001	211.4	-.0001	-.0001	.1579	.3530
Stddev	.0002	.010	.0007	.0002	.0002	.2	.0000	.0002	.0010	.0010
%RSD	62.79	.7155	329.9	.3331	252.2	.1002	15.12	165.0	.6626	.2897
#1	-.0001	1.408	.0004	.0661	.0001	211.6	-.0001	.0001	.1590	.3541
#2	-.0002	1.410	-.0006	.0665	-.0001	211.2	-.0001	-.0002	.1575	.3526
#3	-.0004	1.426	.0008	.0661	-.0001	211.4	-.0001	-.0002	.1570	.3521

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(ln2306)	(Y_2243)	(Y_2243)
Avg	.0288	8.153	.0565	.0007	.0301	11.21	.0007	.0080	.0015	.0029
Stddev	.0027	.046	.0187	.0000	.0001	.02	.0001	.0010	.0010	.0026
%RSD	9.221	.5617	33.14	5.082	.3955	.1600	12.36	12.47	66.32	91.97
#1	.0313	8.132	.0776	.0007	.0301	11.22	.0008	.0069	.0026	-.0001
#2	.0260	8.121	.0417	.0007	.0302	11.19	.0008	.0081	.0011	.0050
#3	.0290	8.205	.0503	.0008	.0300	11.22	.0006	.0089	.0007	.0036

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(ln2306)	(Y_3600)	(Y_2243)
Avg	1.879	.0003	.4283	.0018	-.0012	.0120	.0668
Stddev	.012	.0001	.0003	.0001	.0004	.0001	.0004
%RSD	.6311	24.23	.0637	6.816	35.50	.7751	.5721
#1	1.885	.0003	.4281	.0019	-.0017	.0120	.0666
#2	1.887	.0004	.4286	.0017	-.0010	.0119	.0672
#3	1.866	.0003	.4281	.0019	-.0009	.0120	.0665

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Avg	1796.3	4919.5	37687.	4246.5
Stddev	5.3	3.3	230.	25.7
%RSD	.29234	.06630	.61113	.60582
#1	1799.9	4923.1	37421.	4219.2
#2	1798.9	4918.5	37813.	4270.4
#3	1790.3	4916.9	37826.	4249.8

Zoom In Zoom Out

Sample Name: FA40942-44A Acquired: 2/15/2017 15:26:14 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0004	.6664	.0010	.0686	.0000	238.0	-.0002	-.0001	.0383	.3986
Stddev	.0005	.0033	.0003	.0002	.0000	.9	.0001	.0000	.0003	.0022
%RSD	127.7	.5006	31.91	.3519	757.7	.3806	35.16	52.30	.7842	.5455
#1	-.0003	.6702	.0012	.0684	.0000	237.8	-.0002	-.0001	.0385	.4010
#2	-.0009	.6648	.0007	.0685	.0000	237.2	-.0001	.0000	.0383	.3970
#3	.0001	.6641	.0013	.0689	.0000	238.9	-.0002	-.0001	.0379	.3976

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(ln2306)	(Y_2243)	(Y_2243)
Avg	.0037	7.930	.0740	.0000	.0241	8.481	.0034	.0004	.0018	.0000
Stddev	.0011	.062	.0211	.0000	.0001	.038	.0001	.0006	.0007	.0019
%RSD	28.29	.7826	28.55	3331.	.5073	.4499	2.518	155.2	39.27	4601.
#1	.0049	7.901	.0588	.0000	.0239	8.471	.0034	.0001	.0015	.0009
#2	.0028	7.888	.0981	.0001	.0242	8.448	.0035	.0000	.0027	-.0021
#3	.0036	8.002	.0650	.0000	.0241	8.523	.0033	.0011	.0013	.0013

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(ln2306)	(Y_3600)	(Y_2243)
Avg	2.082	-.0002	.4997	.0003	-.0008	.0107	.0048
Stddev	.009	.0001	.0016	.0001	.0005	.0004	.0001
%RSD	.4288	52.13	.3296	49.31	64.92	3.634	1.456
#1	2.092	-.0003	.4999	.0002	-.0002	.0108	.0048
#2	2.080	-.0001	.4980	.0002	-.0011	.0103	.0048
#3	2.074	-.0002	.5013	.0004	-.0010	.0111	.0047

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Avg	1799.6	4931.6	38022.	4297.3
Stddev	4.1	3.0	69.	4.3
%RSD	.22739	.06028	.18264	.09953
#1	1800.0	4933.4	38024.	4292.4
#2	1803.4	4933.3	38090.	4299.7
#3	1795.3	4928.2	37951.	4299.8

Zoom In Zoom Out

Sample Name: FA40942-45A Acquired: 2/15/2017 15:30:26 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0006	.9286	.0016	.0547	.0000	215.1	-.0001	-.0003	.0402	.3568
Stddev	.0000	.0110	.0007	.0004	.0001	.8	.0001	.0000	.0003	.0014
%RSD	6.475	1.187	46.83	.7665	230.4	.3497	40.83	4.888	.7549	.3988
#1	-.0006	.9168	.0012	.0543	.0001	214.4	-.0001	-.0003	.0404	.3584
#2	-.0006	.9386	.0024	.0546	.0000	215.9	-.0002	-.0003	.0399	.3564
#3	-.0005	.9304	.0011	.0552	.0000	215.1	-.0001	-.0003	.0404	.3557

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(ln2306)	(Y_2243)	(Y_2243)
Avg	.0004	8.056	.0595	-.0001	.0137	9.683	.0013	.0011	.0015	.0016
Stddev	.0025	.053	.0279	.0000	.0001	.034	.0001	.0005	.0010	.0025
%RSD	700.9	.6629	46.99	39.73	1.091	.3539	9.670	45.01	67.62	153.9
#1	-.0015	8.019	.0909	-.0001	.0135	9.657	.0012	.0006	.0003	.0011
#2	.0032	8.118	.0375	-.0001	.0138	9.722	.0013	.0016	.0022	.0043
#3	-.0006	8.033	.0500	-.0001	.0138	9.670	.0015	.0011	.0021	-.0006

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(ln2306)	(Y_3600)	(Y_2243)
Avg	2.095	.0001	.4224	.0004	.0000	.0113	.0036
Stddev	.002	.0002	.0014	.0002	.0006	.0001	.0001
%RSD	.0740	436.4	.3273	40.85	2936.	1.223	2.478
#1	2.094	.0002	.4208	.0004	-.0006	.0114	.0035
#2	2.097	.0001	.4234	.0003	.0004	.0112	.0036
#3	2.096	-.0002	.4228	.0006	.0003	.0113	.0035

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Avg	1792.8	4926.7	37435.	4260.0
Stddev	5.0	7.4	63.	20.5
%RSD	.27806	.14993	.16760	.48091
#1	1795.0	4929.5	37409.	4265.3
#2	1796.3	4918.3	37507.	4237.3
#3	1787.1	4932.2	37390.	4277.2

Zoom In Zoom Out

Sample Name: FA40942-46A Acquired: 2/15/2017 15:34:41 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0002	1.521	-.0004	.1081	.0000	256.5	-.0002	-.0002	.0456	.2278
Stddev	.0001	.029	.0008	.0007	.0001	.9	.0000	.0001	.0002	.0008
%RSD	80.74	1.883	185.5	.6191	119.9	.3476	22.88	76.33	.3467	.3401
#1	-.0002	1.517	.0005	.1087	.0001	257.1	-.0001	-.0001	.0454	.2271
#2	-.0002	1.552	-.0010	.1080	.0000	256.9	-.0002	-.0001	.0457	.2287
#3	.0000	1.495	-.0008	.1074	.0001	255.5	-.0002	-.0003	.0457	.2277

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(ln2306)	(Y_2243)	(Y_2243)
Avg	.0022	10.87	.0512	.0000	.0407	9.643	.0004	.0392	.0015	.0028
Stddev	.0017	.04	.0128	.0000	.0003	.025	.0002	.0007	.0016	.0015
%RSD	76.04	.3497	25.04	238.4	.6340	.2592	54.39	1.776	105.3	54.45
#1	.0042	10.87	.0366	.0000	.0407	9.666	.0004	.0388	.0013	.0010
#2	.0010	10.91	.0565	.0000	.0405	9.646	.0002	.0387	.0032	.0037
#3	.0015	10.84	.0606	.0000	.0410	9.616	.0006	.0400	.0000	.0037

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(ln2306)	(Y_3600)	(Y_2243)
Avg	1.051	.0003	.4927	.0004	-.0019	.0054	.1477
Stddev	.006	.0001	.0013	.0001	.0002	.0003	.0011
%RSD	.5283	31.18	.2581	24.45	11.55	4.979	.7556
#1	1.052	.0002	.4929	.0003	-.0018	.0057	.1472
#2	1.045	.0004	.4938	.0005	-.0019	.0054	.1470
#3	1.056	.0003	.4913	.0005	-.0022	.0052	.1490

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Avg	1774.4	4897.1	37375.	4220.6
Stddev	7.3	25.0	197.	12.5
%RSD	.41063	.51099	.52770	.29576
#1	1777.6	4909.8	37483.	4209.4
#2	1779.5	4913.2	37494.	4234.1
#3	1766.1	4868.2	37147.	4218.3

Zoom In Zoom Out

Sample Name: FA40942-47A Acquired: 2/15/2017 15:38:50 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0004	2.140	-.0007	.1173	.0000	238.3	-.0001	-.0002	.0363	.1612
Stddev	.0001	.017	.0005	.0009	.0001	.1	.0001	.0001	.0007	.0005
%RSD	27.09	.7844	69.79	.7320	927.4	.0565	38.43	52.57	1.878	.2824
#1	-.0005	2.157	-.0009	.1182	.0000	238.5	-.0002	-.0002	.0365	.1617
#2	-.0003	2.138	-.0009	.1172	.0000	238.2	-.0001	-.0003	.0355	.1608
#3	-.0003	2.124	-.0001	.1165	.0001	238.3	-.0002	-.0001	.0369	.1611

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(ln2306)	(Y_2243)	(Y_2243)
Avg	.0009	7.994	.0758	.0001	.0455	13.01	.0000	.0999	.0031	.0038
Stddev	.0018	.060	.0175	.0000	.0002	.02	.0001	.0002	.0010	.0016
%RSD	196.4	.7480	23.03	16.96	.5165	.1593	326.3	.2304	33.16	40.96
#1	.0009	8.063	.0642	.0000	.0456	13.03	-.0001	.0997	.0034	.0032
#2	-.0009	7.953	.0674	.0001	.0452	13.01	.0001	.0999	.0020	.0056
#3	.0028	7.966	.0959	.0001	.0457	12.99	.0001	.1001	.0040	.0027

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(ln2306)	(Y_3600)	(Y_2243)
Avg	1.161	.0021	.4043	.0003	-.0010	.0070	.2678
Stddev	.002	.0002	.0004	.0000	.0004	.0000	.0005
%RSD	.1800	7.660	.1046	13.55	43.88	.2139	.1863
#1	1.162	.0020	.4044	.0003	-.0010	.0070	.2677
#2	1.158	.0023	.4047	.0003	-.0015	.0070	.2674
#3	1.162	.0022	.4039	.0004	-.0006	.0070	.2683

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Avg	1781.1	4885.6	37184.	4253.3
Stddev	1.9	4.0	154.	15.0
%RSD	.10617	.08144	.41378	.35296
#1	1781.3	4884.9	37314.	4236.0
#2	1779.1	4889.9	37225.	4261.4
#3	1782.9	4882.1	37014.	4262.5

Zoom In Zoom Out

Sample Name: FA40942-48A Acquired: 2/15/2017 15:42:59 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0005	2.932	.0004	.0878	.0000	227.5	-.0002	-.0002	.0369	.2083
Stddev	.0006	.007	.0009	.0003	.000	.2	.0000	.0002	.0003	.0016
%RSD	140.0	.2392	236.4	.3890	463.5	.0936	24.98	60.62	.7204	.7718
#1	.0003	2.936	-.0003	.0878	.0000	227.4	-.0002	-.0004	.0367	.2070
#2	-.0010	2.936	.0001	.0874	.0000	227.4	-.0002	-.0002	.0372	.2101
#3	-.0006	2.924	.0014	.0881	.0000	227.7	-.0001	-.0001	.0368	.2079

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(ln2306)	(Y_2243)	(Y_2243)
Avg	-.0007	7.523	.0393	.0000	.0424	8.152	.0000	.0219	.0026	.0039
Stddev	.0031	.084	.0250	.0001	.0001	.017	.0000	.0007	.0006	.0006
%RSD	425.0	1.122	63.44	2913.	.1889	.2102	74.91	3.379	23.44	14.15
#1	.0002	7.618	.0623	-.0001	.0424	8.167	.0001	.0222	.0019	.0035
#2	.0018	7.492	.0429	.0000	.0425	8.133	.0000	.0225	.0031	.0045
#3	-.0041	7.457	.0128	.0001	.0425	8.154	.0000	.0211	.0026	.0037

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(ln2306)	(Y_3600)	(Y_2243)
Avg	1.562	.0005	.3943	.0004	-.0016	.0082	.1174
Stddev	.004	.0004	.0012	.0001	.0012	.0000	.0003
%RSD	.2824	71.26	.3133	21.41	76.92	.5037	.2364
#1	1.560	.0001	.3933	.0005	-.0016	.0082	.1174
#2	1.559	.0008	.3939	.0004	-.0004	.0081	.1171
#3	1.567	.0006	.3957	.0003	-.0028	.0082	.1176

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Avg	1795.7	4917.1	37733.	4268.0
Stddev	3.9	12.9	180.	17.1
%RSD	.21883	.26138	.47588	.40062
#1	1800.2	4917.3	37756.	4248.5
#2	1794.0	4929.9	37900.	4275.0
#3	1792.9	4904.2	37543.	4280.5

Zoom In Zoom Out

Sample Name: FA40942-49A Acquired: 2/15/2017 15:47:09 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0004	1.949	.0001	.0885	.0000	224.7	-.0002	-.0003	.0384	.2267
Stddev	.0001	.018	.0010	.0004	.000	1.2	.0000	.0000	.0005	.0011
%RSD	37.39	.8955	794.9	.4476	79.93	.5510	11.17	12.32	1.293	.4650
#1	-.0003	1.942	.0013	.0882	.0000	225.6	-.0002	-.0004	.0380	.2259
#2	-.0003	1.937	-.0005	.0885	-.0001	223.3	-.0002	-.0003	.0390	.2279
#3	-.0006	1.969	-.0004	.0890	.0000	225.1	-.0002	-.0003	.0383	.2263

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(ln2306)	(Y_2243)	(Y_2243)
Avg	.0005	5.742	.0477	.0000	.0365	8.469	-.0001	.0030	.0022	.0041
Stddev	.0004	.043	.0217	.000	.0001	.049	.0001	.0003	.0004	.0030
%RSD	86.82	.7435	45.47	386.6	.4059	.5795	161.4	9.667	19.89	73.22
#1	.0001	5.765	.0360	.0000	.0366	8.480	.0000	.0032	.0018	.0006
#2	.0004	5.693	.0727	.0000	.0364	8.416	-.0002	.0031	.0026	.0057
#3	.0009	5.769	.0344	-.0001	.0366	8.512	.0000	.0027	.0022	.0061

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(ln2306)	(Y_3600)	(Y_2243)
Avg	2.519	.0002	.3882	.0004	-.0010	.0120	.0277
Stddev	.005	.0003	.0027	.0001	.0010	.0002	.0001
%RSD	.1949	132.2	.7018	14.31	99.57	1.423	.3151
#1	2.524	.0005	.3898	.0005	-.0009	.0121	.0276
#2	2.515	.0002	.3851	.0005	-.0001	.0121	.0276
#3	2.517	-.0001	.3898	.0004	-.0021	.0118	.0278

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Avg	1795.7	4894.4	37547.	4219.7
Stddev	3.7	6.7	198.	27.3
%RSD	.20767	.13595	.52784	.64587
#1	1794.9	4886.7	37750.	4193.6
#2	1799.7	4898.6	37354.	4248.0
#3	1792.4	4897.7	37537.	4217.4

Zoom In Zoom Out

Sample Name: CCV Acquired: 2/15/2017 15:51:18 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2649	39.81	2.032	2.057	1.964	39.85	2.025	2.021	2.024	1.976
Stddev	.0003	.13	.007	.013	.007	.15	.001	.002	.007	.011
%RSD	.1118	.3356	.3350	.6273	.3493	.3869	.0631	.1006	.3611	.5653
#1	.2651	39.96	2.040	2.070	1.972	40.03	2.024	2.019	2.024	1.973
#2	.2649	39.77	2.028	2.058	1.959	39.76	2.027	2.023	2.016	1.967
#3	.2645	39.70	2.028	2.044	1.960	39.76	2.025	2.022	2.031	1.989
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.68	40.60	40.20	2.059	2.056	40.13	2.066	1.982	1.994	2.068
Stddev	.21	.13	.37	.008	.002	.16	.003	.002	.002	.004
%RSD	.5317	.3237	.9122	.4040	.1088	.3999	.1380	.1223	.0922	.2069
#1	39.90	40.75	40.60	2.055	2.054	40.32	2.069	1.980	1.996	2.072
#2	39.67	40.49	39.89	2.053	2.055	40.06	2.064	1.981	1.993	2.064
#3	39.48	40.56	40.10	2.068	2.058	40.02	2.064	1.985	1.993	2.067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.674	2.084	2.031	2.079	1.998	2.060	2.010
Stddev	.002	.003	.005	.010	.003	.004	.003
%RSD	.1181	.1460	.2707	.4735	.1503	.1803	.1330
#1	1.675	2.085	2.037	2.074	1.998	2.057	2.008
#2	1.672	2.087	2.029	2.073	1.996	2.058	2.013
#3	1.674	2.081	2.027	2.090	2.002	2.064	2.009
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 2/15/2017 15:51:18 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1758.0	4984.2	37869.	4256.6
Stddev	2.2	5.6	52.	36.0
%RSD	.12458	.11253	.13762	.84630
#1	1755.5	4981.8	37845.	4224.5
#2	1759.6	4980.3	37929.	4295.6
#3	1758.9	4990.7	37833.	4249.8

Zoom In Zoom Out

Sample Name: CCB Acquired: 2/15/2017 15:55:14 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	-.0018	.0002	-.0001	.0000	.0046	.0001	-.0001	.0001
Stddev	.0001	.0081	.0004	.0003	.0000	.0019	.0001	.0000	.0001
%RSD	112.7	446.3	191.1	274.2	67.46	40.64	88.77	38.98	116.6
#1	-.0002	.0073	.0006	.0002	.0000	.0026	.0001	-.0001	.0001
#2	.0000	-.0046	.0003	-.0001	.0000	.0049	.0000	-.0001	.0002
#3	-.0001	-.0081	-.0002	-.0005	.0000	.0063	.0001	-.0001	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0111	.0669	.0135	.0000	F.0012	.0506	.0001	.0004
Stddev	.0002	.0040	.0172	.0212	.0000	.0002	.0054	.0001	.0002
%RSD	3499.	35.78	25.63	156.9	104.3	15.17	10.76	59.62	70.24
#1	.0001	.0108	.0482	-.0060	.0000	.0014	.0479	.0002	.0003
#2	.0001	.0152	.0707	.0361	.0001	.0013	.0569	.0001	.0001
#3	-.0002	.0073	.0819	.0105	.0000	.0010	.0471	.0001	.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0014	.0002	.0002	.0002	.0004	-.0008	-.0002	.0000
Stddev	.0003	.0013	.0001	.0001	.0001	.0001	.0003	.0001	.000
%RSD	57.08	93.97	58.55	63.74	61.03	18.37	31.88	48.10	64.35
#1	.0002	.0028	.0003	.0001	.0001	.0005	-.0009	-.0002	.0000
#2	.0007	.0009	.0001	.0003	.0002	.0005	-.0005	-.0003	.0000
#3	.0007	.0004	.0003	.0003	.0003	.0003	-.0009	-.0001	.0000
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 2/15/2017 15:55:14 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1953.4	5188.3	39738.	4279.2
Stddev	4.8	7.1	187.	42.7
%RSD	.24660	.13628	.47064	.99869
#1	1954.7	5196.4	39951.	4312.0
#2	1957.4	5183.3	39600.	4230.9
#3	1948.1	5185.1	39663.	4294.8

SGS ACCUTEST FA41143

Zoom In Zoom Out

Sample Name: FA40942-50A Acquired: 2/15/2017 16:32:20 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0001	1.284	-.0006	.1946	-.0001	267.3	-.0002	-.0001	.0661	.1844
Stddev	.0002	.007	.0007	.0005	.0001	.8	.0001	.0000	.0003	.0011
%RSD	175.3	.5418	129.4	.2736	99.45	.2886	25.48	33.79	.4076	.5879
#1	-.0002	1.283	-.0008	.1941	.0000	266.5	-.0002	-.0002	.0658	.1831
#2	.0001	1.279	-.0012	.1945	.0000	268.0	-.0003	-.0001	.0664	.1852
#3	-.0002	1.292	.0003	.1952	-.0001	267.2	-.0002	-.0001	.0660	.1848

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0083	9.285	.1163	.0001	.0254	20.55	.0003	.0966	.0021	.0058
Stddev	.0033	.090	.0106	.0000	.0001	.03	.0002	.0004	.0010	.0017
%RSD	39.37	.9706	9.108	9.665	.4511	.1557	66.07	.3736	48.79	30.29
#1	.0115	9.214	.1279	.0001	.0253	20.52	.0001	.0970	.0023	.0049
#2	.0085	9.387	.1140	.0001	.0253	20.58	.0003	.0965	.0010	.0046
#3	.0050	9.256	.1071	.0001	.0255	20.55	.0005	.0963	.0029	.0078

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.444	.0001	.4864	.0009	-.0010	.0068	.3126
Stddev	.008	.0001	.0014	.0002	.0002	.0002	.0007
%RSD	.5722	158.7	.2792	17.91	15.82	3.112	.2200
#1	1.435	.0000	.4852	.0008	-.0008	.0070	.3122
#2	1.451	.0001	.4879	.0010	-.0011	.0066	.3122
#3	1.446	.0002	.4860	.0007	-.0010	.0069	.3134

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1756.2	4858.8	37087.	4214.4
Stddev	3.2	4.8	79.	16.1
%RSD	.18485	.09808	.21191	.38243
#1	1759.6	4863.3	37005.	4231.6
#2	1753.1	4859.4	37162.	4211.8
#3	1756.0	4853.8	37094.	4199.7

Zoom In Zoom Out

Sample Name: FA40942-51A Acquired: 2/15/2017 16:36:30 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0005	1.235	.0003	.1201	.0000	248.3	-.0002	-.0002	.0927	.2516
Stddev	.0005	.006	.0001	.0004	.000	.6	.0000	.0001	.0010	.0011
%RSD	90.76	.4767	36.41	.3728	243.3	.2534	26.93	46.76	1.105	.4222
#1	-.0009	1.232	.0004	.1206	-.0001	248.3	-.0002	-.0001	.0938	.2528
#2	-.0006	1.242	.0002	.1200	.0000	249.0	-.0002	-.0002	.0917	.2508
#3	.0000	1.231	.0004	.1197	.0000	247.7	-.0001	-.0003	.0927	.2513

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0022	12.58	.0669	-.0001	.0326	10.96	.0007	.0493	.0025	.0015
Stddev	.0023	.07	.0061	.0001	.0001	.05	.0002	.0005	.0005	.0025
%RSD	105.5	.5822	9.144	99.50	.3282	.4302	25.80	1.030	20.69	161.0
#1	.0040	12.51	.0737	-.0001	.0326	10.91	.0007	.0493	.0030	.0024
#2	-.0004	12.65	.0648	-.0001	.0325	11.01	.0008	.0498	.0020	-.0013
#3	.0030	12.58	.0620	.0000	.0327	10.95	.0005	.0488	.0023	.0034

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.274	.0004	.4717	.0005	-.0012	.0082	.2392
Stddev	.001	.0002	.0012	.0000	.0012	.0002	.0003
%RSD	.0585	47.09	.2460	7.800	94.70	2.205	.1106
#1	1.275	.0004	.4707	.0005	-.0025	.0083	.2389
#2	1.273	.0005	.4729	.0005	-.0004	.0084	.2394
#3	1.274	.0002	.4714	.0006	-.0007	.0080	.2393

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1765.9	4871.9	37119.	4222.0
Stddev	3.3	2.1	176.	10.8
%RSD	.18922	.04330	.47542	.25625
#1	1769.4	4871.2	36951.	4213.7
#2	1765.4	4874.3	37303.	4234.2
#3	1762.8	4870.3	37103.	4218.0

Zoom In Zoom Out

Sample Name: FA40942-52A Acquired: 2/15/2017 16:40:40 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0004	1.123	.0012	.0625	.0000	206.8	-.0002	-.0002	.0353	.1699
Stddev	.0002	.003	.0008	.0001	.000	.8	.0000	.0000	.0002	.0008
%RSD	42.66	.3066	62.58	.2213	90.80	.4054	20.49	14.14	.4326	.4750
#1	-.0003	1.125	.0020	.0624	.0000	207.4	-.0001	-.0002	.0354	.1704
#2	-.0003	1.119	.0013	.0626	.0000	207.0	-.0002	-.0002	.0351	.1689
#3	-.0005	1.125	.0004	.0623	.0000	205.8	-.0002	-.0002	.0353	.1702

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0035	5.431	.0526	.0000	.0287	9.396	.0001	.0023	.0021	.0023
Stddev	.0048	.025	.0199	.000	.0001	.045	.0001	.0002	.0007	.0022
%RSD	137.6	.4670	37.82	23.53	.2305	.4817	109.4	9.716	31.17	96.15
#1	.0025	5.436	.0305	.0000	.0288	9.428	.0000	.0024	.0018	-.0003
#2	.0086	5.453	.0691	.0000	.0287	9.415	.0002	.0023	.0028	.0037
#3	-.0008	5.403	.0581	.0000	.0288	9.344	.0001	.0020	.0017	.0035

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.801	.0004	.3383	.0004	-.0008	.0122	.0488
Stddev	.006	.0001	.0013	.0002	.0012	.0005	.0002
%RSD	.3151	40.82	.3944	45.58	152.2	3.886	.3750
#1	1.806	.0005	.3391	.0005	-.0005	.0120	.0486
#2	1.795	.0003	.3390	.0005	-.0021	.0119	.0487
#3	1.801	.0003	.3368	.0002	.0003	.0128	.0490

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1806.6	4921.7	37588.	4221.3
Stddev	3.2	9.5	149.	37.6
%RSD	.17936	.19315	.39641	.89174
#1	1807.4	4928.7	37610.	4180.8
#2	1809.3	4925.5	37430.	4227.8
#3	1803.0	4910.8	37725.	4255.3

Zoom In Zoom Out

Sample Name: CCV Acquired: 2/15/2017 16:44:50 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2666	39.95	2.043	2.070	1.975	40.02	2.031	2.026	2.026	1.989
Stddev	.0006	.06	.007	.003	.003	.03	.002	.002	.003	.001
%RSD	.2082	.1383	.3246	.1380	.1695	.0666	.1013	.0804	.1514	.0443
#1	.2660	39.95	2.035	2.069	1.978	40.05	2.029	2.024	2.027	1.989
#2	.2671	40.00	2.048	2.068	1.972	40.01	2.033	2.027	2.028	1.990
#3	.2666	39.89	2.045	2.073	1.976	40.00	2.032	2.027	2.023	1.988
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.88	40.80	40.29	2.069	2.062	40.43	2.076	1.988	2.002	2.081
Stddev	.06	.08	.07	.005	.004	.05	.004	.004	.003	.006
%RSD	.1530	.1966	.1831	.2598	.1912	.1127	.1962	.1842	.1551	.3059
#1	39.83	40.73	40.21	2.068	2.059	40.48	2.071	1.983	1.999	2.075
#2	39.88	40.89	40.35	2.074	2.061	40.42	2.078	1.989	2.001	2.080
#3	39.95	40.78	40.32	2.064	2.066	40.39	2.079	1.990	2.005	2.088
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.684	2.091	2.043	2.091	2.003	2.065	2.017
Stddev	.007	.005	.002	.006	.001	.002	.002
%RSD	.3966	.2553	.1069	.2721	.0584	.0819	.0761
#1	1.678	2.085	2.045	2.091	2.003	2.066	2.016
#2	1.683	2.095	2.041	2.097	2.002	2.067	2.019
#3	1.691	2.094	2.042	2.086	2.004	2.064	2.016
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 2/15/2017 16:44:50 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1754.3	4972.7	37971.	4250.9
Stddev	2.7	5.8	36.	33.2
%RSD	.15673	.11580	.09465	.78100
#1	1757.4	4979.4	37997.	4288.0
#2	1752.4	4969.1	37930.	4224.1
#3	1753.0	4969.7	37987.	4240.7

Zoom In Zoom Out

Sample Name: CCB Acquired: 2/15/2017 16:48:45 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	-.0009	.0007	.0001	.0001	.0053	.0000	-.0001	.0002
Stddev	.0003	.0034	.0011	.0001	.0001	.0029	.0001	.0000	.0001
%RSD	193.2	395.0	160.2	63.70	89.47	55.63	131.5	19.05	55.02
#1	.0000	-.0038	.0020	.0002	.0001	.0070	.0001	-.0002	.0002
#2	.0000	.0029	-.0002	.0001	.0000	.0019	.0000	-.0001	.0001
#3	-.0004	-.0017	.0003	.0001	.0001	.0070	.0000	-.0001	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0120	.0386	.0074	.0001	F.0012	.0387	.0001	-.0001
Stddev	.0004	.0024	.0386	.0036	.0000	.0004	.0024	.0002	.0003
%RSD	315.4	20.00	100.2	48.80	30.17	30.33	6.290	198.5	406.7
#1	.0003	.0139	.0828	.0115	.0001	.0016	.0415	-.0001	.0002
#2	-.0002	.0129	.0118	.0058	.0001	.0011	.0369	.0003	-.0003
#3	-.0004	.0093	.0211	.0048	.0000	.0009	.0378	.0002	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-.0013	.0003	.0002	.0002	.0003	.0005	-.0001	.0000
Stddev	.0000	.0002	.0004	.0002	.0001	.0002	.0012	.0003	.000
%RSD	83.22	17.14	124.2	119.2	40.35	71.91	252.8	228.2	1511.
#1	.0000	-.0010	.0008	-.0001	.0001	.0001	.0010	-.0003	.0000
#2	.0001	-.0013	-.0001	.0002	.0002	.0002	.0013	.0002	.0000
#3	.0000	-.0015	.0003	.0003	.0001	.0005	-.0009	-.0004	.0000
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 2/15/2017 16:48:45 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1936.7	5151.4	39122.	4237.6
Stddev	4.2	9.9	208.	19.6
%RSD	.21626	.19197	.53224	.46152
#1	1940.7	5162.8	39358.	4242.7
#2	1937.0	5145.2	38964.	4216.0
#3	1932.4	5146.1	39045.	4254.2

Zoom In Zoom Out

Sample Name: MP31639-D2 Acquired: 2/15/2017 16:53:01 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0000	.9509	.0023	.0637	.0000	168.6	-.0002	-.0002	.1618	.3810
Stddev	.000	.0074	.0002	.0004	.000	.2	.0001	.0001	.0003	.0005
%RSD	387.0	.7828	7.481	.6385	519.3	.1025	32.79	63.68	.1642	.1439
#1	.0002	.9554	.0025	.0638	.0000	168.7	-.0002	-.0001	.1620	.3814
#2	-.0001	.9551	.0021	.0641	-.0001	168.7	-.0001	-.0003	.1619	.3803
#3	-.0002	.9423	.0024	.0633	.0001	168.4	-.0002	-.0001	.1615	.3812

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.0070	10.42	.0395	.0000	.0342	5.087	.0007	-.0001	.0023	.0020
Stddev	.0014	.04	.0196	.0000	.0002	.012	.0002	.0004	.0014	.0005
%RSD	19.76	.3404	49.48	84.10	.5916	.2372	26.75	594.3	59.73	26.15
#1	.0086	10.40	.0204	.0001	.0344	5.076	.0006	-.0006	.0039	.0025
#2	.0060	10.46	.0595	.0001	.0343	5.100	.0005	.0002	.0015	.0016
#3	.0065	10.40	.0386	.0000	.0340	5.087	.0009	.0001	.0015	.0017

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	4.177	.0003	.4072	.0008	-.0008	.0311	.0024
Stddev	.002	.0001	.0002	.0001	.0003	.0003	.0001
%RSD	.0430	44.33	.0393	18.14	33.37	.9441	4.876
#1	4.178	.0004	.4073	.0009	-.0010	.0314	.0024
#2	4.175	.0002	.4071	.0009	-.0005	.0310	.0024
#3	4.177	.0003	.4071	.0006	-.0008	.0309	.0022

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1816.4	4933.0	37467.	4206.9
Stddev	5.7	15.2	250.	17.6
%RSD	.31411	.30817	.66740	.41847
#1	1809.8	4915.6	37249.	4196.2
#2	1819.0	4939.8	37410.	4197.2
#3	1820.3	4943.6	37740.	4227.2

Zoom In Zoom Out

Sample Name: MP31639-D3 Acquired: 2/15/2017 16:57:10 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	-.0003	2.380	-.0001	.1232	.0000	258.7	-.0002	-.0002	.0387	.2283
Stddev	.0002	.009	.0003	.0001	.000	.7	.0001	.0001	.0002	.0006
%RSD	66.25	.3891	207.3	.0485	249.4	.2731	28.47	52.88	.4691	.2493
#1	-.0001	2.372	-.0005	.1232	.0000	257.9	-.0002	-.0001	.0385	.2280
#2	-.0004	2.390	-.0001	.1232	.0000	258.7	-.0002	-.0003	.0389	.2279
#3	-.0002	2.377	.0001	.1233	-.0001	259.3	-.0001	-.0003	.0388	.2289

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(ln2306)	(Y_2243)	(Y_2243)
Avg	.0022	13.70	.0126	.0000	.0491	3.492	-.0001	.3406	.0016	.0046
Stddev	.0015	.06	.0177	.0001	.0003	.015	.0001	.0013	.0007	.0011
%RSD	65.05	.4142	141.2	2163.	.6028	.4158	115.9	.3711	44.26	24.03
#1	.0038	13.64	.0065	.0000	.0488	3.490	.0000	.3416	.0024	.0058
#2	.0020	13.74	.0325	.0001	.0493	3.507	.0000	.3410	.0011	.0042
#3	.0009	13.73	-.0014	-.0001	.0492	3.478	-.0002	.3392	.0013	.0037

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(ln2306)	(Y_3600)	(Y_2243)
Avg	1.020	.0008	.4399	.0005	-.0007	.0078	.8378
Stddev	.001	.0002	.0011	.0001	.0007	.0002	.0013
%RSD	.1057	28.04	.2417	21.96	109.7	2.878	.1562
#1	1.020	.0010	.4389	.0004	-.0015	.0077	.8393
#2	1.018	.0005	.4410	.0006	-.0004	.0081	.8373
#3	1.020	.0008	.4398	.0004	-.0001	.0077	.8368

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Avg	1774.5	4875.0	37312.	4204.7
Stddev	1.0	6.0	164.	15.9
%RSD	.05672	.12322	.43830	.37872
#1	1774.0	4879.7	37497.	4203.5
#2	1775.6	4877.1	37186.	4221.1
#3	1773.7	4868.3	37254.	4189.3

Zoom In Zoom Out

Sample Name: MP31639-MB2 Acquired: 2/15/2017 17:01:19 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	-.0013	-.0008	-.0002	-.0001	.0174	.0000	-.0001	.0002	.0001
Stddev	.0003	.0042	.0004	.0002	.0000	.0011	.000	.0001	.0003	.0001
%RSD	104.0	314.3	45.93	129.3	49.88	6.293	104.5	82.85	176.3	112.6
#1	-.0003	.0030	-.0004	-.0003	-.0001	.0162	.0000	-.0002	.0001	.0001
#2	.0000	-.0018	-.0009	-.0003	-.0001	.0178	-.0001	-.0002	.0005	.0000
#3	-.0006	-.0053	-.0010	.0001	.0000	.0183	.0000	.0000	-.0001	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013	.0461	.0136	.0000	-.0003	.0300	.0003	.0000	.0009	-.0003
Stddev	.0026	.0123	.0165	.0000	.0001	.0048	.0002	.0003	.0008	.0005
%RSD	200.0	26.61	121.2	1113.	36.94	15.94	57.10	4616.	85.43	156.2
#1	-.0016	.0470	.0208	.0000	-.0002	.0338	.0003	.0003	.0017	.0002
#2	.0021	.0334	.0253	.0000	-.0004	.0246	.0002	.0001	.0009	-.0004
#3	.0035	.0579	-.0053	.0000	-.0002	.0315	.0005	-.0004	.0001	-.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0051	-.0001	.0001	-.0001	-.0012	-.0004	.0035
Stddev	.0002	.0003	.0001	.0001	.0005	.0001	.0000
%RSD	3.126	353.3	114.2	153.4	43.72	29.21	1.315
#1	.0053	-.0004	.0002	.0000	-.0006	-.0004	.0035
#2	.0049	.0000	.0001	-.0001	-.0014	-.0005	.0034
#3	.0051	.0002	.0000	-.0001	-.0015	-.0003	.0035
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: MP31639-MB2 Acquired: 2/15/2017 17:01:19 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	ln2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1957.5	5179.6	39922.	4290.4
Stddev	1.5	9.5	226.	21.3
%RSD	.07774	.18356	.56603	.49595
#1	1958.9	5178.8	39907.	4278.8
#2	1955.9	5170.5	39705.	4277.4
#3	1957.7	5189.5	40156.	4314.9

Zoom In Zoom Out

Sample Name: MP31639-B2 Acquired: 2/15/2017 17:05:35 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0480	28.42	2.065	2.190	.0529	26.56	.0519	.5173	.2105	.2628
Stddev	.0004	.10	.007	.012	.0003	.12	.0001	.0007	.0006	.0009
%RSD	.8776	.3389	.3331	.5423	.6267	.4475	.1785	.1308	.2698	.3250
#1	.0476	28.38	2.071	2.188	.0528	26.49	.0520	.5180	.2105	.2636
#2	.0484	28.35	2.058	2.179	.0527	26.49	.0519	.5167	.2111	.2628
#3	.0479	28.53	2.065	2.202	.0533	26.70	.0518	.5170	.2099	.2619
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.65	26.79	26.14	.5427	.5253	26.52	.5313	.5050	.5235	2.080
Stddev	.21	.05	.19	.0043	.0016	.13	.0009	.0004	.0026	.004
%RSD	.7663	.1805	.7096	.7910	.2995	.5016	.1776	.0850	.5022	.1935
#1	27.61	26.78	26.15	.5419	.5263	26.47	.5323	.5050	.5256	2.084
#2	27.45	26.76	25.95	.5474	.5235	26.43	.5309	.5054	.5244	2.077
#3	27.87	26.85	26.32	.5389	.5261	26.67	.5306	.5045	.5206	2.079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0100	.5250	.5182	.5419	2.044	.4953	.5186
Stddev	.0002	.0016	.0027	.0031	.002	.0016	.0005
%RSD	2.328	.3080	.5130	.5728	.0801	.3182	.1005
#1	.0097	.5267	.5168	.5414	2.042	.4948	.5191
#2	.0102	.5234	.5165	.5453	2.046	.4970	.5181
#3	.0100	.5251	.5213	.5391	2.043	.4940	.5188
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

SGS ACCUTEST FA41143

Zoom In Zoom Out

Sample Name: MP31639-B2 Acquired: 2/15/2017 17:05:35 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1811.2	5059.5	38389.	4263.4
Stddev	.6	12.9	204.	36.5
%RSD	.03488	.25517	.53149	.85580
#1	1810.5	5046.5	38489.	4262.8
#2	1811.2	5072.3	38154.	4300.2
#3	1811.8	5059.7	38523.	4227.3

Zoom In Zoom Out

Sample Name: MP31639-MB3 Acquired: 2/15/2017 17:09:35 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	-.0044	-.0004	.0002	.0000	.0104	-.0001	-.0002	.0004	.0000
Stddev	.0003	.0061	.0009	.0002	.000	.0013	.0000	.0001	.0002	.0001
%RSD	62.16	138.9	206.7	120.6	108.3	12.41	57.84	34.86	52.47	365.3
#1	-.0004	-.0110	.0003	.0002	.0000	.0091	.0000	-.0002	.0006	.0001
#2	-.0002	-.0030	-.0002	.0003	-.0001	.0104	-.0001	-.0001	.0003	.0002
#3	-.0008	.0009	-.0014	.0000	-.0001	.0117	-.0001	-.0002	.0002	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0092	.0497	.0150	.0000	-.0001	.0698	.0001	-.0004	.0015	.0006
Stddev	.0013	.0325	.0258	.000	.0001	.0101	.0002	.0006	.0005	.0004
%RSD	14.16	65.43	171.4	77.88	162.9	14.39	171.6	152.1	34.37	59.04
#1	.0085	.0866	-.0120	.0000	-.0001	.0582	.0003	-.0010	.0019	.0007
#2	.0107	.0374	.0179	-.0001	.0000	.0749	-.0001	.0001	.0009	.0010
#3	.0085	.0251	.0392	.0000	-.0002	.0763	.0002	-.0002	.0015	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046	.0003	.0001	.0000	-.0004	-.0005	.0032
Stddev	.0002	.0001	.0001	.000	.0002	.0001	.0000
%RSD	3.389	53.34	118.2	1362.	52.37	19.78	.5949
#1	.0045	.0004	.0002	.0001	-.0004	-.0005	.0031
#2	.0048	.0001	.0000	.0000	-.0007	-.0003	.0032
#3	.0045	.0003	.0000	-.0001	-.0002	-.0005	.0031
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: MP31639-MB3 Acquired: 2/15/2017 17:09:35 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1941.9	5189.8	39389.	4240.4
Stddev	1.9	4.9	111.	29.9
%RSD	.09584	.09441	.28123	.70602
#1	1942.1	5184.3	39458.	4274.5
#2	1943.6	5191.6	39449.	4228.3
#3	1939.9	5193.5	39262.	4218.4

Zoom In Zoom Out

Sample Name: MP31639-B3 Acquired: 2/15/2017 17:13:52 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0467	28.30	2.032	2.170	.0528	26.46	.0511	.5111	.2096	.2625
Stddev	.0005	.05	.004	.002	.0002	.08	.0000	.0002	.0005	.0008
%RSD	1.081	.1814	.1926	.0676	.4489	.2910	.0883	.0368	.2458	.2955
#1	.0467	28.25	2.034	2.170	.0526	26.41	.0511	.5112	.2095	.2623
#2	.0462	28.35	2.027	2.171	.0530	26.54	.0511	.5108	.2092	.2619
#3	.0472	28.29	2.034	2.168	.0526	26.41	.0512	.5111	.2102	.2634
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.71	26.53	25.88	.5425	.5225	26.48	.5231	.5014	.5190	2.052
Stddev	.12	.04	.06	.0044	.0011	.06	.0004	.0009	.0028	.007
%RSD	.4153	.1481	.2324	.8172	.2138	.2137	.0794	.1872	.5342	.3601
#1	27.59	26.53	25.83	.5401	.5237	26.43	.5235	.5003	.5221	2.051
#2	27.82	26.57	25.95	.5397	.5215	26.54	.5227	.5017	.5178	2.045
#3	27.72	26.49	25.88	.5476	.5223	26.46	.5231	.5021	.5169	2.059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0092	.5202	.5170	.5423	2.029	.4904	.5129
Stddev	.0004	.0009	.0012	.0036	.003	.0012	.0008
%RSD	4.158	.1739	.2338	.6586	.1453	.2500	.1506
#1	.0089	.5213	.5165	.5401	2.029	.4917	.5126
#2	.0096	.5200	.5184	.5403	2.032	.4894	.5123
#3	.0090	.5195	.5162	.5464	2.026	.4900	.5138
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: MP31639-B3 Acquired: 2/15/2017 17:13:52 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1814.2	5084.9	38234.	4238.6
Stddev	.3	2.3	204.	41.4
%RSD	.01809	.04471	.53377	.97681
#1	1814.2	5085.9	38291.	4279.1
#2	1813.9	5086.5	38403.	4196.3
#3	1814.5	5082.3	38007.	4240.4

Zoom In Zoom Out

Sample Name: MP31641-MB1 Acquired: 2/15/2017 17:17:52 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	-.0009	-.0003	.0001	-.0001	.0279	.0000	-.0002	.0010	.0005
Stddev	.0005	.0050	.0007	.0001	.0000	.0022	.000	.0000	.0001	.0003
%RSD	125.0	534.2	227.5	218.1	50.00	8.022	37.68	19.06	6.883	56.43
#1	-.0010	-.0016	-.0006	-.0001	-.0001	.0270	.0000	-.0002	.0009	.0004
#2	.0000	.0044	.0005	.0001	.0000	.0263	.0000	-.0002	.0010	.0003
#3	-.0002	-.0056	-.0009	.0002	-.0001	.0305	-.0001	-.0003	.0010	.0008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0204	.0712	.0145	.0008	.0000	.0527	.0004	.0007	.0015	.0020
Stddev	.0009	.0389	.0193	.0000	.000	.0142	.0003	.0004	.0000	.0008
%RSD	4.570	54.67	133.6	4.952	173.5	26.91	67.74	62.65	1.996	37.31
#1	.0208	.0406	.0070	.0008	.0000	.0451	.0007	.0012	.0015	.0012
#2	.0194	.1150	.0364	.0008	-.0001	.0691	.0003	.0004	.0015	.0027
#3	.0211	.0579	.0000	.0007	.0000	.0440	.0002	.0005	.0015	.0021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0148	.0221	.0001	.0007	-.0004	-.0003	.0022
Stddev	.0005	.0001	.0000	.0003	.0007	.0001	.0001
%RSD	3.431	.5658	15.52	47.50	163.4	36.94	4.473
#1	.0142	.0221	.0001	.0004	-.0006	-.0004	.0022
#2	.0151	.0223	.0001	.0006	-.0011	-.0004	.0021
#3	.0151	.0221	.0001	.0011	.0003	-.0002	.0022
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Zoom In Zoom Out

Sample Name: MP31641-MB1 Acquired: 2/15/2017 17:17:52 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1964.5	5200.9	40142.	4339.7
Stddev	1.5	4.7	170.	47.1
%RSD	.07707	.09022	.42423	1.0847
#1	1963.8	5204.1	40127.	4348.4
#2	1966.2	5203.1	39979.	4288.8
#3	1963.4	5195.5	40319.	4381.7

Zoom In Zoom Out

Sample Name: MP31641-B1 Acquired: 2/15/2017 17:22:09 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0465	27.90	2.039	2.158	.0518	26.08	.0509	.5090	.2071	.2573
Stddev	.0004	.13	.006	.005	.0002	.08	.0001	.0008	.0006	.0006
%RSD	.8237	.4704	.3176	.2114	.4007	.3101	.2670	.1657	.2872	.2454
#1	.0466	27.81	2.036	2.153	.0517	26.01	.0508	.5083	.2077	.2579
#2	.0461	28.05	2.034	2.159	.0521	26.17	.0509	.5088	.2066	.2567
#3	.0468	27.83	2.046	2.162	.0517	26.05	.0510	.5099	.2069	.2574
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.11	26.43	25.66	.5309	.5149	26.02	.5259	.4947	.5086	2.050
Stddev	.13	.12	.16	.0019	.0009	.09	.0011	.0013	.0012	.007
%RSD	.4841	.4362	.6345	.3506	.1752	.3408	.2171	.2645	.2355	.3270
#1	26.96	26.35	25.60	.5327	.5142	25.94	.5267	.4933	.5079	2.045
#2	27.20	26.56	25.85	.5311	.5146	26.12	.5246	.4959	.5079	2.047
#3	27.17	26.39	25.54	.5290	.5159	25.99	.5263	.4949	.5100	2.057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0199	.5348	.5057	.5297	1.994	.4863	.5073
Stddev	.0003	.0003	.0020	.0010	.005	.0002	.0005
%RSD	1.314	.0575	.3981	.1917	.2641	.0381	.0900
#1	.0202	.5351	.5047	.5301	1.989	.4864	.5070
#2	.0197	.5345	.5081	.5304	1.999	.4864	.5072
#3	.0199	.5348	.5045	.5286	1.994	.4861	.5078
Check ?	None	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: MP31641-B1 Acquired: 2/15/2017 17:22:09 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1821.4	5072.8	38583.	4279.7
Stddev	4.6	4.5	194.	13.4
%RSD	.25149	.08965	.50396	.31387
#1	1823.5	5075.3	38360.	4284.5
#2	1816.2	5075.5	38716.	4290.1
#3	1824.7	5067.5	38673.	4264.5

Zoom In Zoom Out

Sample Name: FA41143-1 Acquired: 2/15/2017 17:26:06 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0022	156.4	.1172	1.269	.0188	50.83	.0068	.1240	.1832	.9828
Stddev	.0025	.5	.0008	.002	.0003	.09	.0003	.0006	.0026	.0025
%RSD	115.2	.3436	.6659	.1493	1.732	.1679	3.970	.4462	1.429	.2554
#1	.0001	155.9	.1175	1.270	.0190	50.74	.0068	.1241	.1822	.9800
#2	.0050	157.0	.1163	1.267	.0184	50.91	.0066	.1245	.1862	.9840
#3	.0014	156.2	.1177	1.271	.0190	50.82	.0071	.1234	.1812	.9845

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	318.8	45.39	49.40	5.118	.0094	1.544	.1763	1.177	.0152	.0207
Stddev	.6	.33	.09	.026	.0005	.045	.0013	.006	.0051	.0043
%RSD	.1866	.7290	.1868	.5002	4.939	2.904	.7404	.5090	33.93	20.53
#1	318.4	45.17	49.48	5.088	.0099	1.590	.1764	1.171	.0203	.0255
#2	319.4	45.77	49.42	5.132	.0094	1.544	.1775	1.183	.0151	.0194
#3	318.4	45.23	49.30	5.133	.0089	1.500	.1749	1.177	.0101	.0172

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.445	.0341	.3127	3.653	.0042	.3863	1.102
Stddev	.004	.0011	.0006	.009	.0052	.0007	.002
%RSD	.2930	3.355	.1824	.2450	124.5	.1826	.1919
#1	1.441	.0347	.3120	3.644	.0063	.3856	1.100
#2	1.449	.0347	.3129	3.662	-.0017	.3870	1.103
#3	1.444	.0328	.3130	3.653	.0080	.3862	1.104

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1875.8	5978.5	45293.	4935.8
Stddev	4.4	9.5	259.	15.5
%RSD	.23615	.15819	.57092	.31476
#1	1880.3	5985.4	45481.	4953.4
#2	1875.7	5982.4	44998.	4924.2
#3	1871.4	5967.7	45401.	4929.7

Zoom In Zoom Out

Sample Name: MP31641-D1 Acquired: 2/15/2017 17:30:11 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0020	164.3	.1136	1.325	.0199	52.19	.0068	.1013	.1986	.4465
Stddev	.0011	.4	.0071	.004	.0003	.09	.0002	.0003	.0017	.0019
%RSD	52.00	.2733	6.260	.3142	1.625	.1819	2.556	.2738	.8346	.4297
#1	.0028	164.8	.1213	1.323	.0200	52.30	.0066	.1011	.1982	.4482
#2	.0025	163.9	.1073	1.329	.0195	52.14	.0068	.1016	.2004	.4469
#3	.0008	164.1	.1121	1.321	.0201	52.13	.0069	.1012	.1971	.4445

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	332.8	47.05	54.30	5.563	.0081	1.656	.2084	1.071	.0123	.0215
Stddev	.5	.21	.23	.039	.0002	.023	.0010	.003	.0019	.0130
%RSD	.1650	.4448	.4159	.6970	2.443	1.390	.4762	.2402	15.73	60.48
#1	333.4	47.27	54.36	5.576	.0080	1.654	.2088	1.071	.0142	.0364
#2	332.7	46.85	54.49	5.593	.0083	1.680	.2073	1.069	.0123	.0127
#3	332.3	47.04	54.05	5.519	.0080	1.634	.2092	1.074	.0103	.0153

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.380	.0311	.3159	3.570	.0067	.3811	1.208
Stddev	.001	.0017	.0008	.020	.0012	.0017	.003
%RSD	.0844	5.498	.2473	.5590	17.74	.4577	.2367
#1	1.381	.0323	.3165	3.578	.0078	.3827	1.211
#2	1.381	.0318	.3150	3.585	.0068	.3814	1.205
#3	1.379	.0291	.3160	3.547	.0055	.3792	1.209

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1859.7	5935.9	44926.	4942.5
Stddev	5.9	7.2	180.	33.1
%RSD	.31618	.12115	.40082	.67068
#1	1864.3	5934.6	44993.	4923.8
#2	1861.8	5943.7	44722.	4923.0
#3	1853.1	5929.5	45063.	4980.8

Zoom In Zoom Out

Sample Name: CCV Acquired: 2/15/2017 17:34:16 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2680	40.26	2.020	2.080	1.993	40.22	2.035	2.026	2.045	2.016
Stddev	.0013	.03	.007	.005	.003	.03	.005	.004	.004	.006
%RSD	.4876	.0638	.3401	.2518	.1563	.0669	.2438	.1944	.2038	.2873
#1	.2665	40.29	2.015	2.083	1.995	40.25	2.034	2.025	2.049	2.014
#2	.2686	40.27	2.017	2.074	1.989	40.19	2.030	2.022	2.041	2.023
#3	.2689	40.23	2.027	2.084	1.994	40.22	2.040	2.030	2.046	2.013

Check ? Chk PassChk PassChk PassChk PassChk PassChk PassChk PassChk PassChk PassChk Pass
Value
Range

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.29	40.99	40.36	2.112	2.071	40.89	2.057	2.013	2.010	2.055
Stddev	.08	.14	.12	.007	.005	.03	.006	.004	.005	.009
%RSD	.1991	.3530	.3076	.3511	.2643	.0777	.2779	.1718	.2674	.4318
#1	40.32	40.97	40.47	2.104	2.069	40.93	2.052	2.016	2.007	2.051
#2	40.20	41.15	40.23	2.118	2.067	40.87	2.056	2.011	2.007	2.049
#3	40.36	40.86	40.38	2.115	2.077	40.88	2.063	2.010	2.016	2.065

Check ? Chk PassChk PassChk PassChk PassChk PassChk PassChk PassChk PassChk PassChk Pass
Value
Range

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.659	2.084	2.065	2.122	2.025	2.073	2.029
Stddev	.006	.007	.002	.006	.001	.005	.005
%RSD	.3374	.3177	.1085	.3063	.0519	.2371	.2260
#1	1.655	2.079	2.068	2.115	2.026	2.071	2.030
#2	1.657	2.082	2.064	2.128	2.025	2.069	2.024
#3	1.665	2.092	2.064	2.122	2.024	2.078	2.033

Check ? None Chk PassChk PassChk PassChk PassChk PassChk Pass
Value
Range

Zoom In Zoom Out

Sample Name: CCV Acquired: 2/15/2017 17:34:16 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1736.4	4959.6	37483.	4200.4
Stddev	1.5	15.5	79.	7.3
%RSD	.08543	.31246	.21086	.17464
#1	1735.8	4964.2	37455.	4199.9
#2	1738.1	4972.2	37572.	4193.2
#3	1735.3	4942.3	37421.	4207.9

Zoom In Zoom Out

Sample Name: CCB Acquired: 2/15/2017 17:38:12 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0050	.0004	.0002	.0001	.0052	.0001	.0000	.0002
Stddev	.0002	.0072	.0002	.0002	.0001	.0009	.0001	.000	.0003
%RSD	58.64	142.8	63.72	95.08	88.34	17.46	56.67	127.2	135.9
#1	-.0001	-.0029	.0005	.0000	.0002	.0051	.0002	-.0001	.0000
#2	-.0005	.0069	.0005	.0004	.0000	.0044	.0001	-.0001	.0006
#3	-.0003	.0111	.0001	.0004	.0000	.0062	.0000	.0000	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0135	.0272	.0096	.0001	F.0013	.0333	.0001	-.0003
Stddev	.0004	.0023	.0239	.0062	.0000	.0003	.0036	.0003	.0003
%RSD	327.6	16.76	88.12	64.96	26.63	22.10	10.80	508.5	123.8
#1	.0002	.0159	.0403	.0123	.0001	.0016	.0348	.0000	-.0004
#2	-.0006	.0115	.0417	.0141	.0001	.0012	.0292	.0004	.0001
#3	.0000	.0131	-.0005	.0025	.0002	.0011	.0359	-.0002	-.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	.0006	.0002	.0002	.0003	.0005	.0003	.0000	.0001
Stddev	.0006	.0015	.0004	.0001	.0001	.0001	.0013	.0004	.0001
%RSD	62.11	246.4	182.2	21.12	38.54	11.49	425.9	994.9	96.42
#1	.0015	.0009	-.0001	.0003	.0003	.0004	.0015	.0001	.0000
#2	.0009	.0019	.0006	.0003	.0004	.0005	.0005	.0003	.0001
#3	.0004	-.0010	.0001	.0002	.0002	.0005	-.0011	-.0004	.0000
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 2/15/2017 17:38:12 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1939.4	5139.7	39092.	4178.9
Stddev	1.1	4.1	190.	30.7
%RSD	.05604	.07905	.48521	.73390
#1	1938.6	5136.2	39266.	4210.3
#2	1940.7	5144.2	38890.	4177.2
#3	1939.0	5138.7	39120.	4149.1

Zoom In Zoom Out

Sample Name: MP31641-SD1 Acquired: 2/15/2017 17:42:27 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 25.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0043	177.0	.1466	1.424	.0207	53.83	.0078	.1373	.2063	1.080
Stddev	.0045	1.3	.0221	.007	.0032	.23	.0006	.0006	.0068	.006
%RSD	105.6	.7399	15.06	.5155	15.34	.4363	7.130	.4384	3.319	.5935
#1	.0084	176.4	.1221	1.424	.0207	53.59	.0084	.1380	.2002	1.075
#2	-.0005	176.0	.1650	1.417	.0239	53.84	.0072	.1369	.2137	1.077
#3	.0049	178.5	.1526	1.431	.0176	54.06	.0079	.1370	.2050	1.087

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	359.4	52.28	56.69	5.719	.0089	1.824	.1971	1.154	.0274	-.0023
Stddev	1.1	1.00	.62	.017	.0019	.050	.0022	.012	.0347	.0171
%RSD	.3020	1.910	1.095	.2973	21.16	2.758	1.109	1.057	126.8	752.6
#1	358.6	52.39	56.05	5.703	.0110	1.777	.1956	1.168	.0532	.0122
#2	358.9	51.24	56.71	5.717	.0079	1.877	.1961	1.150	.0409	.0022
#3	360.6	53.23	57.30	5.737	.0077	1.819	.1996	1.145	-.0121	-.0212

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	8.648	.0378	.3403	4.276	.0082	.4332	1.437
Stddev	.455	.0045	.0034	.020	.0147	.0059	.004
%RSD	5.260	11.93	1.012	.4644	178.1	1.369	.2414
#1	9.132	.0344	.3406	4.256	.0000	.4267	1.434
#2	8.230	.0360	.3368	4.277	-.0005	.4383	1.437
#3	8.581	.0429	.3436	4.295	.0252	.4344	1.441

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1920.6	5338.6	40288.	4373.2
Stddev	5.9	16.5	260.	26.6
%RSD	.30630	.30928	.64637	.60768
#1	1919.6	5338.6	40583.	4379.4
#2	1927.0	5355.1	40186.	4344.1
#3	1915.4	5322.1	40093.	4396.2

Zoom In Zoom Out

Sample Name: MP31641-PS1 Acquired: 2/15/2017 17:46:35 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0400	152.1	.2063	1.453	.0631	53.17	.0524	.1643	.2237	1.036
Stddev	.0005	.2	.0044	.007	.0004	.12	.0001	.0005	.0003	.004
%RSD	1.128	.1608	2.140	.4907	.5964	.2192	.2794	.3007	.1499	.3848
#1	.0405	152.2	.2051	1.448	.0636	53.30	.0522	.1637	.2238	1.040
#2	.0398	152.2	.2112	1.450	.0628	53.13	.0525	.1644	.2233	1.033
#3	.0397	151.8	.2026	1.461	.0631	53.07	.0525	.1647	.2240	1.033

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	308.5	52.59	51.95	4.945	.0980	10.71	.2632	1.167	.1043	.1163
Stddev	.5	.34	.11	.015	.0006	.08	.0012	.003	.0033	.0074
%RSD	.1619	.6466	.2068	.3091	.6236	.7614	.4659	.2368	3.117	6.388
#1	307.9	52.96	51.84	4.959	.0974	10.77	.2632	1.168	.1012	.1129
#2	308.7	52.50	52.05	4.948	.0986	10.62	.2645	1.164	.1042	.1111
#3	308.8	52.30	51.97	4.929	.0981	10.73	.2621	1.169	.1077	.1248

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.385	.0758	.3431	3.594	.1060	.4130	1.286
Stddev	.001	.0005	.0010	.012	.0064	.0016	.001
%RSD	.0810	.7160	.2960	.3206	6.019	.3969	.0999
#1	1.386	.0755	.3430	3.601	.1129	.4131	1.287
#2	1.383	.0764	.3442	3.600	.1050	.4146	1.284
#3	1.385	.0754	.3421	3.581	.1002	.4113	1.287

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1861.1	5904.0	44562.	4868.1
Stddev	2.4	2.5	56.	23.1
%RSD	.12894	.04206	.12480	.47550
#1	1861.2	5904.1	44501.	4876.8
#2	1858.7	5901.5	44576.	4841.9
#3	1863.5	5906.5	44610.	4885.6

Zoom In Zoom Out

Sample Name: MP31641-S1 Acquired: 2/15/2017 17:50:40 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0473	187.5	1.949	3.078	.0645	245.3	.0526	.5436	.3605	.6220
Stddev	.0008	.1	.010	.004	.0005	.5	.0003	.0014	.0025	.0015
%RSD	1.590	.0400	.5253	.1453	.7672	.1881	.5457	.2583	.6984	.2484
#1	.0470	187.6	1.940	3.074	.0650	245.7	.0523	.5420	.3585	.6213
#2	.0467	187.5	1.947	3.083	.0640	245.5	.0529	.5446	.3633	.6209
#3	.0482	187.6	1.960	3.076	.0645	244.8	.0525	.5443	.3596	.6238

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	302.6	66.52	175.3	5.040	.3985	25.96	.6495	1.442	.1690	1.878
Stddev	.2	.22	.8	.018	.0015	.02	.0007	.002	.0031	.007
%RSD	.0804	.3278	.4335	.3626	.3702	.0834	.1092	.1465	1.825	.3880
#1	302.9	66.37	175.0	5.031	.3973	25.98	.6492	1.440	.1726	1.886
#2	302.6	66.77	176.2	5.028	.4001	25.97	.6490	1.443	.1672	1.872
#3	302.4	66.42	174.8	5.061	.3981	25.94	.6503	1.444	.1672	1.876

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.463	.4955	.7589	4.134	1.914	.7650	1.436
Stddev	.002	.0020	.0011	.009	.006	.0005	.005
%RSD	.1042	.4008	.1457	.2215	.3265	.0678	.3203
#1	1.463	.4951	.7601	4.126	1.908	.7645	1.431
#2	1.461	.4977	.7579	4.132	1.914	.7649	1.438
#3	1.464	.4938	.7586	4.144	1.920	.7655	1.439

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1808.0	5721.4	43290.	4811.5
Stddev	2.9	20.9	137.	34.2
%RSD	.15982	.36579	.31591	.71156
#1	1811.1	5744.9	43442.	4793.3
#2	1805.5	5704.6	43249.	4790.2
#3	1807.2	5714.9	43178.	4851.0

Zoom In Zoom Out

Sample Name: MP31641-S2 Acquired: 2/15/2017 17:54:40 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0444	232.1	1.807	3.258	.0646	139.1	.0524	.5291	.3872	.7632
Stddev	.0017	.7	.009	.008	.0008	.5	.0002	.0004	.0030	.0016
%RSD	3.734	.2987	.5277	.2428	1.304	.3527	.2954	.0756	.7866	.2129
#1	.0445	232.7	1.802	3.259	.0654	139.4	.0526	.5295	.3874	.7621
#2	.0460	232.4	1.801	3.265	.0637	139.4	.0523	.5288	.3901	.7650
#3	.0427	231.4	1.818	3.249	.0647	138.5	.0524	.5289	.3840	.7624

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	387.8	75.83	116.1	6.227	.3626	23.77	.6562	2.050	.1517	1.704
Stddev	.8	.58	.8	.036	.0004	.02	.0020	.004	.0029	.022
%RSD	.2190	.7689	.6804	.5740	.1105	.0934	.2985	.1922	1.936	1.288
#1	387.9	76.23	116.3	6.263	.3624	23.77	.6540	2.046	.1496	1.688
#2	388.6	76.10	116.8	6.227	.3624	23.80	.6566	2.051	.1506	1.694
#3	386.9	75.16	115.2	6.191	.3631	23.76	.6579	2.053	.1551	1.729

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.482	.4574	.8013	4.902	1.811	.8205	1.754
Stddev	.004	.0003	.0015	.016	.003	.0031	.001
%RSD	.2452	.0614	.1919	.3235	.1754	.3826	.0682
#1	1.477	.4576	.8030	4.920	1.815	.8219	1.752
#2	1.483	.4575	.8000	4.894	1.808	.8227	1.754
#3	1.484	.4571	.8010	4.891	1.811	.8169	1.754

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1828.7	6012.7	45537.	5046.0
Stddev	1.6	5.4	198.	40.7
%RSD	.08897	.09001	.43484	.80591
#1	1830.5	6018.8	45529.	5064.0
#2	1827.3	6008.6	45343.	4999.5
#3	1828.3	6010.7	45739.	5074.6

Zoom In Zoom Out

Sample Name: FA40942-37 Acquired: 2/15/2017 17:58:39 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0608	157.1	.2744	1.324	.0065	951.8	.0508	.1124	1.375
Stddev	.0025	.2	.0045	.000	.0001	2.0	.0005	.0002	.005
%RSD	4.073	.1505	1.630	.0140	1.719	.2056	.9042	.1732	.3752
#1	.0636	156.8	.2713	1.324	.0064	953.1	.0503	.1123	1.370
#2	.0600	157.3	.2795	1.324	.0066	952.8	.0508	.1123	1.376
#3	.0588	157.2	.2723	1.324	.0065	949.6	.0512	.1126	1.380

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	F314.2	350.3	21.71	46.21	4.142	.1620	5.284	2.400	18.82
Stddev	4.6	1.0	.16	.27	.007	.0001	.012	.002	.05
%RSD	1.459	.2880	.7183	.5761	.1621	.0690	.2228	.0768	.2704
#1	309.5	350.3	21.85	46.36	4.135	.1621	5.286	2.402	18.88
#2	314.5	351.3	21.72	46.37	4.148	.1619	5.271	2.398	18.77
#3	318.6	349.3	21.54	45.90	4.144	.1618	5.294	2.399	18.82

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0299	.0477	1.489	2.422	1.339	6.768	.0087	.9874	F251.1
Stddev	.0039	.0019	.001	.004	.002	.003	.0045	.0011	.5
%RSD	12.94	3.953	.0585	.1628	.1782	.0469	52.55	.1102	.2031
#1	.0290	.0499	1.489	2.426	1.337	6.765	.0044	.9861	250.9
#2	.0265	.0471	1.490	2.420	1.342	6.768	.0081	.9882	251.6
#3	.0341	.0463	1.490	2.419	1.339	6.771	.0134	.9878	250.7

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1767.5	5092.8	39570.	4421.4
Stddev	4.1	1.6	98.	33.1
%RSD	.23480	.03051	.24845	.74962
#1	1762.9	5091.8	39683.	4412.2
#2	1771.1	5094.6	39504.	4393.7
#3	1768.3	5092.0	39523.	4458.1

Zoom In Zoom Out

Sample Name: FA40942-38 Acquired: 2/15/2017 18:02:58 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0356	181.0	.2803	1.186	.0065	999.2	.0801	.1020	1.059
Stddev	.0017	.7	.0015	.002	.0001	3.1	.0001	.0007	.001
%RSD	4.807	.3651	.5486	.1690	1.865	.3085	.0685	.6471	.0997
#1	.0352	180.4	.2801	1.188	.0065	997.0	.0801	.1014	1.060
#2	.0342	181.7	.2788	1.184	.0066	1003.	.0801	.1018	1.060
#3	.0375	180.9	.2819	1.186	.0064	997.9	.0802	.1027	1.058

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	F244.7	358.2	18.41	48.92	4.786	.1501	4.082	1.494	11.98
Stddev	1.1	.7	.05	.33	.005	.0016	.062	.002	.01
%RSD	.4465	.2056	.2639	.6724	.1158	1.035	1.528	.1184	.0575
#1	245.9	357.6	18.46	48.70	4.791	.1515	4.059	1.496	11.98
#2	244.6	359.1	18.39	49.30	4.780	.1504	4.034	1.494	11.98
#3	243.7	358.1	18.37	48.76	4.787	.1484	4.152	1.493	11.97

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0347	.0339	1.613	.8752	1.255	7.508	.0081	1.007	F209.5
Stddev	.0036	.0048	.006	.0032	.005	.015	.0011	.002	.5
%RSD	10.43	14.29	.3808	.3672	.4365	.2039	13.97	.2301	.2234
#1	.0307	.0355	1.607	.8772	1.249	7.524	.0075	1.009	210.0
#2	.0357	.0377	1.613	.8769	1.259	7.494	.0073	1.005	209.4
#3	.0378	.0284	1.619	.8715	1.258	7.505	.0094	1.009	209.0

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1770.2	5141.5	39561.	4398.0
Stddev	2.4	6.4	44.	32.0
%RSD	.13583	.12369	.11039	.72649
#1	1770.6	5148.8	39516.	4381.1
#2	1767.6	5138.1	39603.	4378.1
#3	1772.4	5137.6	39565.	4434.9

Zoom In Zoom Out

Sample Name: FA40942-39 Acquired: 2/15/2017 18:07:18 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0400	199.1	.2663	1.478	.0059	949.7	.0794	.1899	7.284
Stddev	.0007	.2	.0076	.002	.0003	.8	.0003	.0004	.030
%RSD	1.765	.1058	2.863	.1222	5.456	.0804	.3386	.2119	.4104
#1	.0392	199.3	.2717	1.476	.0061	950.4	.0794	.1903	7.277
#2	.0404	199.2	.2696	1.480	.0061	949.6	.0797	.1899	7.258
#3	.0404	198.9	.2576	1.478	.0055	948.9	.0791	.1895	7.317

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	F242.3	560.0	27.19	55.54	6.709	.2885	5.605	10.96	10.10
Stddev	.9	.1	.06	.17	.032	.0010	.046	.01	.01
%RSD	.3592	.0202	.2346	.3138	.4691	.3406	.8194	.0470	.0694
#1	241.3	559.9	27.13	55.74	6.693	.2878	5.613	10.96	10.10
#2	242.7	560.1	27.17	55.48	6.689	.2896	5.555	10.95	10.11
#3	243.0	560.0	27.26	55.41	6.745	.2881	5.646	10.96	10.09

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	-.0102	.0389	1.581	.8107	1.191	10.88	.0087	1.534	F230.9
Stddev	.0074	.0105	.003	.0013	.002	.03	.0049	.007	.4
%RSD	72.88	26.96	.1697	.1552	.1287	.2590	56.68	.4851	.1848
#1	-.0081	.0324	1.583	.8117	1.191	10.87	.0042	1.534	230.8
#2	-.0040	.0510	1.578	.8093	1.192	10.86	.0140	1.526	231.3
#3	-.0185	.0333	1.583	.8111	1.189	10.91	.0079	1.541	230.5

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1751.9	5146.5	39991.	4466.5
Stddev	1.2	6.7	279.	6.9
%RSD	.07028	.13037	.69705	.15417
#1	1750.5	5139.0	40189.	4474.2
#2	1752.3	5151.9	40112.	4461.0
#3	1752.9	5148.5	39672.	4464.4

Zoom In Zoom Out

Sample Name: FA40942-40 Acquired: 2/15/2017 18:11:38 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0320	158.8	.2794	1.185	.0060	1073.	.0461	.1156	6.017
Stddev	.0013	.0	.0020	.003	.0003	1.	.0002	.0002	.010
%RSD	4.188	.0246	.7024	.2403	5.367	.0652	.4238	.1966	.1608
#1	.0334	158.9	.2775	1.182	.0061	1072.	.0463	.1158	6.006
#2	.0307	158.8	.2814	1.185	.0063	1074.	.0460	.1154	6.023
#3	.0320	158.8	.2793	1.188	.0057	1073.	.0461	.1155	6.022

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	F195.0	347.9	20.51	48.65	4.001	.0816	4.161	5.851	11.01
Stddev	1.9	.8	.03	.28	.006	.0008	.009	.002	.01
%RSD	.9633	.2177	.1608	.5768	.1440	1.009	.2042	.0327	.1024
#1	192.9	347.5	20.52	48.34	4.007	.0821	4.170	5.851	11.02
#2	196.6	348.7	20.47	48.74	3.999	.0820	4.157	5.849	11.01
#3	195.4	347.4	20.54	48.88	3.996	.0806	4.155	5.852	10.99

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0082	.0309	1.251	.7161	1.300	8.034	.0054	1.157	F154.7
Stddev	.0096	.0078	.003	.0037	.001	.009	.0058	.003	.7
%RSD	117.1	25.18	.2312	.5124	.0854	.1052	107.0	.2320	.4652
#1	.0192	.0317	1.253	.7194	1.301	8.033	.0092	1.156	155.5
#2	.0018	.0227	1.253	.7167	1.301	8.026	-.0013	1.156	154.1
#3	.0036	.0382	1.248	.7121	1.299	8.043	.0083	1.161	154.5

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1760.9	5124.1	39690.	4413.9
Stddev	5.1	3.4	32.	31.0
%RSD	.29077	.06652	.08062	.70167
#1	1766.1	5128.0	39710.	4449.4
#2	1760.6	5121.6	39653.	4392.6
#3	1755.9	5122.7	39706.	4399.6

Zoom In Zoom Out

Sample Name: FA40942-41 Acquired: 2/15/2017 18:15:58 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.1285	432.8	.3085	1.301	.0084	891.3	.1033	.1351	1.953
Stddev	.0025	.6	.0061	.004	.0003	1.8	.0005	.0007	.006
%RSD	1.962	.1474	1.985	.3005	3.344	.2058	.4805	.5209	.3317
#1	.1314	432.9	.3120	1.305	.0085	891.9	.1028	.1350	1.956
#2	.1268	433.3	.3015	1.301	.0086	892.7	.1036	.1358	1.946
#3	.1272	432.1	.3121	1.297	.0081	889.2	.1036	.1344	1.958

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	F669.5	614.2	21.31	49.44	7.994	.2122	5.975	2.593	F68.33
Stddev	4.5	.8	.17	.18	.044	.0009	.033	.004	.06
%RSD	.6682	.1306	.8056	.3706	.5557	.4246	.5576	.1566	.0917
#1	671.1	613.9	21.45	49.53	7.992	.2116	6.000	2.589	68.28
#2	664.5	615.1	21.12	49.56	7.951	.2132	5.987	2.591	68.32
#3	673.0	613.6	21.36	49.23	8.040	.2117	5.937	2.597	68.40

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.3413	.0333	1.635	12.81	1.202	7.672	.0063	1.018	F559.0
Stddev	.0060	.0103	.001	.00	.003	.038	.0046	.002	4.5
%RSD	1.763	30.82	.0612	.0153	.2360	.4981	73.00	.2337	.8110
#1	.3344	.0274	1.636	12.80	1.203	7.670	.0020	1.020	554.0
#2	.3454	.0452	1.634	12.81	1.204	7.634	.0112	1.016	562.9
#3	.3442	.0274	1.635	12.81	1.199	7.710	.0057	1.017	559.9

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1732.4	4811.0	39021.	4366.8
Stddev	2.3	2.8	189.	5.3
%RSD	.13168	.05841	.48363	.12092
#1	1733.9	4813.1	39052.	4367.2
#2	1733.4	4812.2	39193.	4361.3
#3	1729.7	4807.8	38819.	4371.8

Zoom In Zoom Out

Sample Name: FA40942-42 Acquired: 2/15/2017 18:20:17 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.1112	717.9	.2653	1.406	.0083	704.3	.1268	.1339	1.830
Stddev	.0011	1.6	.0034	.003	.0004	1.6	.0007	.0007	.008
%RSD	.9559	.2236	1.294	.2218	4.988	.2243	.5284	.5377	.4411
#1	.1106	716.2	.2644	1.404	.0083	702.6	.1272	.1345	1.839
#2	.1105	717.9	.2691	1.404	.0087	704.6	.1260	.1331	1.824
#3	.1124	719.4	.2624	1.410	.0078	705.8	.1271	.1341	1.828

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	F569.1	464.7	17.55	44.55	6.244	.2469	5.312	2.043	F40.66
Stddev	3.9	1.3	.14	.11	.040	.0012	.040	.002	.17
%RSD	.6862	.2840	.7734	.2486	.6333	.4745	.7451	.1125	.4154
#1	571.8	463.6	17.47	44.65	6.262	.2463	5.286	2.041	40.53
#2	570.9	464.5	17.48	44.43	6.272	.2462	5.357	2.043	40.60
#3	564.6	466.2	17.71	44.56	6.199	.2483	5.291	2.046	40.85

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0977	.0140	1.588	2.861	1.019	7.832	.0129	1.021	F524.9
Stddev	.0046	.0065	.001	.003	.003	.035	.0041	.005	.5
%RSD	4.758	46.21	.0562	.0872	.3252	.4526	31.53	.4904	.1018
#1	.0946	.0138	1.589	2.863	1.017	7.846	.0097	1.024	525.2
#2	.1030	.0077	1.588	2.859	1.017	7.859	.0175	1.024	524.3
#3	.0954	.0207	1.588	2.859	1.023	7.792	.0116	1.015	525.3

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1751.7	4990.0	39346.	4385.6
Stddev	5.1	.8	95.	32.1
%RSD	.29317	.01566	.24266	.73184
#1	1756.9	4989.9	39256.	4420.8
#2	1751.7	4990.9	39336.	4358.0
#3	1746.6	4989.3	39446.	4377.8

Zoom In Zoom Out

Sample Name: CCV Acquired: 2/15/2017 18:24:35 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2706	40.22	2.022	2.088	1.981	40.12	2.039	2.031	2.058	2.027
Stddev	.0002	.03	.005	.010	.004	.05	.004	.005	.003	.003
%RSD	.0913	.0793	.2440	.4734	.2188	.1323	.2072	.2318	.1358	.1611
#1	.2703	40.19	2.017	2.092	1.977	40.06	2.036	2.027	2.056	2.023
#2	.2708	40.22	2.026	2.077	1.986	40.16	2.037	2.030	2.057	2.030
#3	.2705	40.25	2.025	2.096	1.981	40.13	2.044	2.036	2.061	2.028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	40.19	41.21	40.42	2.119	2.076	40.99	2.060	2.017	2.015	2.050
Stddev	.07	.04	.15	.001	.004	.07	.003	.005	.002	.002
%RSD	.1723	.1002	.3776	.0339	.1769	.1650	.1471	.2642	.1174	.0974
#1	40.12	41.16	40.42	2.120	2.074	40.94	2.057	2.014	2.012	2.051
#2	40.20	41.24	40.58	2.118	2.074	40.97	2.060	2.015	2.017	2.050
#3	40.26	41.22	40.27	2.120	2.081	41.07	2.063	2.023	2.015	2.047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.657	2.091	2.060	2.132	2.034	2.084	2.044
Stddev	.001	.005	.002	.004	.005	.004	.006
%RSD	.0526	.2180	.0961	.2055	.2260	.2135	.3157
#1	1.657	2.087	2.058	2.127	2.037	2.081	2.041
#2	1.657	2.091	2.062	2.134	2.028	2.083	2.040
#3	1.658	2.096	2.061	2.135	2.036	2.089	2.051
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 2/15/2017 18:24:35 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1733.8	4954.1	37180.	4134.0
Stddev	3.1	12.3	121.	12.9
%RSD	.17925	.24866	.32476	.31121
#1	1735.4	4964.1	37286.	4144.5
#2	1735.8	4957.9	37206.	4119.7
#3	1730.2	4940.4	37049.	4137.9

Zoom In Zoom Out

Sample Name: CCB Acquired: 2/15/2017 18:28:31 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	.0041	.0007	.0001	.0001	.0063	.0001	-.0001	.0003
Stddev	.0002	.0034	.0002	.0002	.0001	.0007	.0001	.0001	.0001
%RSD	45.27	84.04	31.58	235.0	53.69	11.02	62.56	224.6	30.00
#1	-.0003	.0074	.0006	.0000	.0002	.0058	.0001	-.0001	.0003
#2	-.0006	.0043	.0006	.0003	.0001	.0071	.0001	.0001	.0002
#3	-.0004	.0006	.0010	.0000	.0001	.0060	.0000	-.0002	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0021	.0189	.0536	.0207	.0002	F.0013	.0280	.0002	.0003
Stddev	.0001	.0032	.0416	.0046	.0000	.0005	.0043	.0002	.0004
%RSD	6.059	16.73	77.52	22.01	25.78	35.26	15.50	82.21	147.1
#1	.0020	.0223	.0516	.0259	.0002	.0017	.0230	.0003	-.0002
#2	.0022	.0181	.0131	.0190	.0002	.0013	.0312	.0003	.0006
#3	.0022	.0162	.0962	.0173	.0001	.0008	.0296	.0000	.0005
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	.0020					.0010			
Low Limit	-.0020					-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	.0009	.0006	.0003	.0002	.0005	.0000	-.0001	.0022
Stddev	.0003	.0023	.0007	.0001	.0000	.0001	.001	.0003	.0004
%RSD	47.16	242.4	132.5	32.59	30.50	17.25	1824.	417.2	20.42
#1	.0006	.0035	.0000	.0003	.0002	.0006	-.0001	.0000	.0026
#2	.0004	.0003	.0014	.0005	.0002	.0006	-.0005	-.0004	.0023
#3	.0011	-.0010	.0003	.0002	.0001	.0004	.0005	.0002	.0017
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 2/15/2017 18:28:31 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1940.1	5161.4	39146.	4135.1
Stddev	7.0	10.1	197.	48.7
%RSD	.35896	.19625	.50424	1.1769
#1	1947.8	5155.7	39373.	4080.2
#2	1938.0	5173.1	39021.	4172.9
#3	1934.4	5155.5	39042.	4152.3

Zoom In Zoom Out

Sample Name: FA40942-43 Acquired: 2/15/2017 18:32:47 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0568	195.7	.2141	1.108	.0056	684.1	.0543	.1061	4.688
Stddev	.0021	1.8	.0066	.008	.0005	6.2	.0008	.0023	.027
%RSD	3.749	.9366	3.099	.7098	8.552	.9099	1.536	2.132	.5804
#1	.0592	197.5	.2175	1.116	.0051	690.8	.0552	.1084	4.718
#2	.0554	195.6	.2184	1.108	.0061	683.3	.0540	.1058	4.682
#3	.0557	193.9	.2065	1.101	.0057	678.4	.0536	.1039	4.665

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	F252.7	476.0	20.55	44.95	5.308	.0960	4.331	2.068	17.14
Stddev	2.2	4.2	.02	.26	.030	.0026	.047	.031	.20
%RSD	.8757	.8912	.1013	.5827	.5587	2.731	1.087	1.509	1.191
#1	254.5	479.9	20.57	45.22	5.340	.0985	4.376	2.100	17.36
#2	253.4	476.5	20.53	44.70	5.303	.0962	4.282	2.065	17.09
#3	250.2	471.5	20.56	44.93	5.281	.0933	4.335	2.038	16.96

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0272	.0373	1.489	2.121	.8541	10.21	.0102	1.383	F305.2
Stddev	.0085	.0043	.024	.033	.0086	.06	.0034	.009	4.5
%RSD	31.39	11.63	1.639	1.556	1.002	.6266	32.89	.6225	1.481
#1	.0184	.0416	1.514	2.156	.8635	10.28	.0083	1.393	309.2
#2	.0354	.0329	1.487	2.116	.8521	10.19	.0141	1.380	306.3
#3	.0278	.0375	1.466	2.091	.8468	10.16	.0082	1.377	300.3

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1785.1	5118.8	39719.	4400.6
Stddev	3.0	21.8	99.	33.8
%RSD	.16879	.42659	.24900	.76769
#1	1782.0	5104.7	39608.	4367.0
#2	1785.2	5107.8	39796.	4434.6
#3	1788.1	5144.0	39753.	4400.3

Zoom In Zoom Out

Sample Name: FA40942-44 Acquired: 2/15/2017 18:37:07 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0722	194.0	.2241	.9950	.0059	708.5	.0555	.1003	1.213
Stddev	.0007	.1	.0045	.0032	.0002	1.1	.0003	.0005	.001
%RSD	1.005	.0742	1.999	.3263	3.625	.1580	.5096	.4805	.0699
#1	.0718	194.2	.2291	.9987	.0061	708.7	.0559	.0997	1.214
#2	.0731	193.9	.2205	.9940	.0058	709.6	.0553	.1007	1.213
#3	.0718	193.9	.2227	.9925	.0058	707.3	.0554	.1004	1.212

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	F354.3	329.1	18.07	38.13	4.474	.1072	5.310	2.021	17.26
Stddev	5.8	.7	.09	.14	.018	.0007	.045	.001	.08
%RSD	1.646	.1988	.5101	.3677	.3983	.6400	.8515	.0258	.4543
#1	360.1	329.6	18.15	38.21	4.492	.1064	5.352	2.021	17.18
#2	354.2	329.3	17.97	38.22	4.474	.1073	5.262	2.021	17.26
#3	348.5	328.3	18.08	37.97	4.457	.1078	5.316	2.020	17.33

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0420	.0317	1.522	1.371	.9337	5.982	.0075	.8085	F301.8
Stddev	.0056	.0071	.004	.004	.0015	.011	.0014	.0009	2.3
%RSD	13.32	22.39	.2568	.2756	.1585	.1815	18.29	.1085	.7605
#1	.0375	.0278	1.523	1.369	.9321	5.992	.0090	.8090	301.3
#2	.0403	.0398	1.525	1.369	.9341	5.983	.0069	.8091	304.4
#3	.0483	.0273	1.517	1.375	.9350	5.971	.0065	.8075	299.9

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1795.6	5024.3	39385.	4315.2
Stddev	5.6	7.6	143.	17.4
%RSD	.31307	.15090	.36276	.40283
#1	1801.3	5027.3	39238.	4303.0
#2	1795.3	5029.9	39394.	4307.6
#3	1790.1	5015.7	39524.	4335.1

Zoom In Zoom Out

Sample Name: FA40942-45 Acquired: 2/15/2017 18:41:27 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0234	146.1	.1724	.7311	.0039	791.6	.0445	.0706	.8202
Stddev	.0017	.1	.0048	.0008	.0006	.8	.0002	.0005	.0032
%RSD	7.176	.0914	2.786	.1107	15.63	.0951	.3667	.6667	.3952
#1	.0251	146.0	.1777	.7315	.0039	791.0	.0446	.0707	.8216
#2	.0218	146.1	.1710	.7317	.0033	791.4	.0443	.0711	.8165
#3	.0232	146.3	.1685	.7302	.0045	792.4	.0445	.0701	.8225

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	F111.0	247.4	18.36	33.41	4.339	.0251	4.574	1.508	6.588
Stddev	.3	.4	.02	.06	.013	.0003	.029	.002	.024
%RSD	.2617	.1478	.1278	.1902	.2930	1.168	.6308	.1255	.3675
#1	110.7	247.4	18.38	33.35	4.349	.0254	4.601	1.507	6.589
#2	111.3	247.0	18.36	33.48	4.324	.0251	4.544	1.510	6.564
#3	111.0	247.7	18.33	33.40	4.342	.0249	4.576	1.507	6.612

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0134	.0103	1.456	.6140	.9639	5.914	.0047	.7886	F139.1
Stddev	.0101	.0073	.006	.0006	.0003	.021	.0010	.0007	.4
%RSD	75.18	71.35	.4158	.0945	.0329	.3561	21.40	.0846	.2960
#1	.0159	.0035	1.458	.6144	.9640	5.932	.0054	.7887	139.0
#2	.0221	.0092	1.461	.6142	.9636	5.891	.0053	.7891	138.9
#3	.0023	.0181	1.449	.6133	.9642	5.918	.0036	.7878	139.6

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1797.0	5172.3	39567.	4349.7
Stddev	6.8	.4	182.	34.8
%RSD	.37767	.00817	.45894	.79922
#1	1794.0	5172.0	39422.	4386.1
#2	1804.7	5172.1	39771.	4346.2
#3	1792.1	5172.8	39509.	4316.8

Zoom In Zoom Out

Sample Name: FA40942-46 Acquired: 2/15/2017 18:45:48 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.2617	229.1	.3622	1.386	.0073	915.3	.0816	.1455	1.501
Stddev	.0006	.4	.0029	.009	.0003	3.5	.0004	.0009	.003
%RSD	.2478	.1932	.8033	.6215	3.606	.3854	.4418	.5894	.1731
#1	.2617	229.5	.3605	1.395	.0070	917.7	.0816	.1447	1.500
#2	.2624	228.6	.3655	1.378	.0073	911.2	.0820	.1454	1.504
#3	.2611	229.3	.3605	1.386	.0075	917.0	.0813	.1465	1.500

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	*****	289.4	14.97	40.67	4.017	.2318	4.525	5.720	F83.36
Stddev	-----	1.3	.06	.24	.025	.0009	.011	.018	.23
%RSD	-----	.4407	.4330	.5808	.6098	.3987	.2443	.3206	.2790
#1	-----	290.4	14.96	40.85	4.007	.2309	4.537	5.718	83.48
#2	-----	287.9	14.91	40.41	4.045	.2317	4.523	5.740	83.52
#3	-----	289.7	15.04	40.76	3.999	.2328	4.515	5.703	83.10

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.2892	.0272	1.143	10.59	1.145	5.438	.0054	.7458	F691.4
Stddev	.0138	.0036	.008	.01	.004	.022	.0042	.0034	3.3
%RSD	4.760	13.29	.7079	.0806	.3467	.4138	78.09	.4555	.4730
#1	.2934	.0271	1.136	10.58	1.147	5.437	.0055	.7475	688.9
#2	.3003	.0309	1.142	10.60	1.141	5.461	.0011	.7480	690.1
#3	.2738	.0237	1.152	10.58	1.148	5.416	.0096	.7419	695.1

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1752.8	4268.4	38821.	4284.7
Stddev	5.0	9.0	64.	24.9
%RSD	.28577	.21063	.16446	.58000
#1	1752.1	4277.5	38883.	4266.7
#2	1748.1	4259.5	38756.	4313.1
#3	1758.1	4268.2	38823.	4274.4

Zoom In Zoom Out

Sample Name: FA40942-47 Acquired: 2/15/2017 18:50:02 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.1988	544.4	.3631	1.682	.0144	1073.	.1161	.1984	2.636
Stddev	.0006	5.4	.0020	.015	.0004	11.	.0015	.0030	.013
%RSD	.2935	.9874	.5462	.9119	2.937	1.051	1.299	1.508	.4957
#1	.1991	550.5	.3642	1.693	.0149	1086.	.1177	.2016	2.651
#2	.1992	542.1	.3642	1.687	.0141	1069.	.1159	.1980	2.634
#3	.1981	540.5	.3608	1.664	.0143	1064.	.1147	.1956	2.625

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	F969.3	508.8	20.42	46.32	6.405	.6707	7.041	4.155	F58.99
Stddev	2.6	4.2	.25	.42	.027	.0103	.071	.062	.87
%RSD	.2662	.8281	1.245	.9121	.4278	1.539	1.007	1.499	1.472
#1	967.7	513.3	20.71	46.74	6.437	.6819	7.099	4.217	59.87
#2	972.2	508.3	20.26	46.33	6.388	.6688	7.062	4.156	58.96
#3	967.8	504.9	20.29	45.89	6.390	.6615	6.962	4.092	58.13

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1546	.0343	1.276	6.462	1.337	5.745	.0104	.9508	F722.9
Stddev	.0113	.0055	.020	.095	.011	.028	.0035	.0078	3.7
%RSD	7.308	15.98	1.554	1.475	.8386	.4859	34.11	.8162	.5144
#1	.1677	.0335	1.295	6.559	1.350	5.777	.0063	.9591	723.6
#2	.1476	.0292	1.278	6.458	1.334	5.732	.0124	.9498	726.2
#3	.1486	.0401	1.255	6.368	1.328	5.726	.0124	.9437	718.8

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1731.3	4540.0	38928.	4276.5
Stddev	3.7	13.7	89.	37.5
%RSD	.21313	.30210	.22775	.87775
#1	1727.3	4524.6	39026.	4233.2
#2	1732.0	4544.3	38854.	4296.3
#3	1734.5	4551.0	38903.	4300.0

Zoom In Zoom Out

Sample Name: FA40942-48 Acquired: 2/15/2017 18:54:21 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.2673	387.5	.3727	1.667	.0124	803.2	.1559	.2000	1.249
Stddev	.0039	1.2	.0102	.007	.0006	3.4	.0009	.0016	.002
%RSD	1.464	.3092	2.749	.3973	4.644	.4248	.5538	.8059	.1721
#1	.2645	386.1	.3668	1.668	.0130	799.3	.1551	.1983	1.251
#2	.2656	388.3	.3846	1.660	.0121	805.8	.1568	.2015	1.248
#3	.2718	388.0	.3669	1.673	.0119	804.4	.1557	.2003	1.247

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	*****	333.3	16.47	38.30	5.467	.3853	5.904	5.937	F97.44
Stddev	-----	1.2	.11	.14	.017	.0019	.065	.027	.33
%RSD	-----	.3693	.6579	.3686	.3118	.4819	1.094	.4552	.3430
#1	-----	332.0	16.46	38.28	5.486	.3833	5.854	5.908	97.80
#2	-----	334.4	16.37	38.44	5.463	.3870	5.881	5.962	97.13
#3	-----	333.5	16.58	38.16	5.453	.3856	5.977	5.939	97.40

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.4503	.0350	1.229	7.767	1.163	5.801	.0068	.6917	F959.4
Stddev	.0115	.0197	.008	.036	.002	.016	.0034	.0035	2.3
%RSD	2.563	56.49	.6868	.4584	.1589	.2697	49.76	.5022	.2390
#1	.4609	.0342	1.221	7.728	1.162	5.819	.0106	.6906	960.7
#2	.4380	.0551	1.237	7.798	1.165	5.790	.0042	.6956	956.8
#3	.4521	.0156	1.230	7.775	1.162	5.794	.0056	.6890	960.8

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1734.8	3930.0	38724.	4278.3
Stddev	6.3	19.7	160.	67.0
%RSD	.36361	.50119	.41298	1.5652
#1	1728.7	3952.8	38542.	4354.8
#2	1741.3	3918.3	38842.	4230.0
#3	1734.3	3919.0	38789.	4250.3

Zoom In Zoom Out

Sample Name: FA40942-49 Acquired: 2/15/2017 18:58:35 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.1483	745.7	.2375	1.148	.0064	655.5	.0877	.1508	1.401
Stddev	.0011	5.1	.0096	.005	.0004	3.5	.0013	.0016	.002
%RSD	.7200	.6773	4.052	.4116	6.905	.5315	1.481	1.089	.1517
#1	.1493	748.5	.2282	1.152	.0069	656.8	.0889	.1520	1.403
#2	.1472	748.8	.2474	1.148	.0063	658.1	.0879	.1516	1.399
#3	.1484	739.9	.2368	1.143	.0060	651.5	.0864	.1490	1.400

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	F747.0	339.1	19.32	34.62	5.874	.2559	6.255	2.474	F42.85
Stddev	4.6	2.0	.18	.15	.018	.0017	.040	.033	.62
%RSD	.6208	.5971	.9284	.4414	.3090	.6548	.6334	1.322	1.450
#1	745.2	339.9	19.47	34.50	5.895	.2574	6.283	2.502	43.43
#2	752.3	340.6	19.12	34.79	5.867	.2562	6.272	2.481	42.93
#3	743.5	336.8	19.37	34.57	5.860	.2541	6.210	2.438	42.19

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1265	.0154	1.404	2.720	1.021	5.724	.0147	.7700	F609.2
Stddev	.0034	.0063	.020	.041	.006	.023	.0045	.0036	6.9
%RSD	2.656	40.85	1.424	1.518	.5566	.3954	30.93	.4641	1.137
#1	.1303	.0189	1.424	2.757	1.022	5.749	.0194	.7741	614.9
#2	.1238	.0191	1.404	2.729	1.026	5.718	.0143	.7678	611.2
#3	.1256	.0081	1.384	2.676	1.015	5.705	.0104	.7680	601.5

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1774.5	4841.2	39166.	4369.1
Stddev	5.6	12.4	160.	38.9
%RSD	.31834	.25510	.40849	.89082
#1	1771.8	4841.9	39315.	4409.9
#2	1770.7	4828.4	39186.	4332.3
#3	1781.0	4853.1	38997.	4365.1

Zoom In Zoom Out

Sample Name: FA40942-50 Acquired: 2/15/2017 19:02:54 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.1493	212.5	.3160	1.657	.0077	890.5	.0870	.1149	2.166
Stddev	.0007	.5	.0045	.005	.0004	2.4	.0000	.0003	.005
%RSD	.4762	.2180	1.421	.2833	5.775	.2721	.0432	.2851	.2152
#1	.1492	212.9	.3110	1.662	.0082	892.9	.0870	.1146	2.171
#2	.1487	212.0	.3196	1.653	.0076	888.0	.0870	.1148	2.164
#3	.1501	212.6	.3175	1.656	.0074	890.7	.0871	.1152	2.162

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	F766.7	358.4	17.71	48.03	4.947	.1288	5.478	3.649	F44.63
Stddev	2.0	.7	.22	.10	.031	.0015	.012	.002	.06
%RSD	.2635	.2075	1.252	.2172	.6187	1.150	.2207	.0584	.1373
#1	769.0	358.9	17.82	48.05	4.913	.1301	5.481	3.649	44.59
#2	765.5	357.6	17.85	47.92	4.956	.1272	5.489	3.651	44.70
#3	765.5	358.9	17.45	48.13	4.972	.1292	5.465	3.646	44.61

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0929	.0271	1.337	4.397	1.114	8.333	.0100	1.015	F689.7
Stddev	.0107	.0029	.003	.002	.002	.035	.0041	.001	.4
%RSD	11.48	10.56	.2101	.0462	.1870	.4258	40.56	.1135	.0508
#1	.0968	.0303	1.338	4.396	1.116	8.295	.0139	1.016	689.9
#2	.1010	.0257	1.334	4.400	1.112	8.339	.0104	1.014	689.3
#3	.0808	.0251	1.340	4.396	1.113	8.365	.0058	1.016	689.9

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1756.2	4715.3	39235.	4290.3
Stddev	3.0	8.8	167.	34.0
%RSD	.17233	.18697	.42535	.79318
#1	1753.9	4705.5	39386.	4269.6
#2	1754.9	4717.9	39056.	4329.6
#3	1759.6	4722.5	39263.	4271.7

Zoom In Zoom Out

Sample Name: FA40942-51 Acquired: 2/15/2017 19:07:12 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.1223	178.6	.2656	1.253	.0065	807.9	.0646	.1132	2.549
Stddev	.0020	.5	.0056	.004	.0004	2.1	.0001	.0006	.006
%RSD	1.617	.2660	2.108	.3015	5.735	.2580	.1523	.5357	.2558
#1	.1203	179.1	.2598	1.254	.0069	810.1	.0647	.1125	2.544
#2	.1222	178.6	.2710	1.255	.0062	807.6	.0645	.1136	2.557
#3	.1243	178.1	.2660	1.248	.0064	805.9	.0646	.1136	2.547

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	F673.6	314.2	18.78	42.15	4.564	.1083	5.973	3.854	F35.53
Stddev	5.2	1.5	.05	.38	.020	.0013	.028	.003	.05
%RSD	.7725	.4646	.2498	.8911	.4376	1.207	.4684	.0652	.1365
#1	679.4	315.7	18.79	42.27	4.584	.1077	6.004	3.853	35.47
#2	671.7	314.2	18.73	42.44	4.564	.1074	5.949	3.856	35.56
#3	669.5	312.8	18.82	41.72	4.545	.1098	5.966	3.852	35.54

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0780	.0309	1.036	3.867	1.022	7.726	.0037	.8999	F533.7
Stddev	.0107	.0063	.001	.004	.001	.024	.0072	.0021	2.2
%RSD	13.77	20.53	.0985	.1132	.1012	.3153	194.1	.2279	.4061
#1	.0904	.0257	1.036	3.866	1.022	7.753	-.0038	.8981	536.1
#2	.0718	.0380	1.036	3.872	1.023	7.719	.0043	.8994	532.0
#3	.0719	.0291	1.037	3.863	1.021	7.706	.0106	.9021	533.0

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1766.2	4831.8	39365.	4271.2
Stddev	1.7	5.2	27.	5.5
%RSD	.09769	.10705	.06751	.12810
#1	1767.6	4837.7	39357.	4266.1
#2	1764.3	4827.8	39344.	4276.9
#3	1766.6	4830.1	39395.	4270.5

Zoom In Zoom Out

Sample Name: FA40942-52 Acquired: 2/15/2017 19:11:31 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.1001	198.9	.2208	1.272	.0083	615.6	.1182	.1277	3.570
Stddev	.0019	.4	.0048	.005	.0005	1.8	.0006	.0011	.007
%RSD	1.886	.2174	2.184	.3939	5.954	.2857	.4816	.8515	.1850
#1	.0980	198.5	.2237	1.269	.0082	614.2	.1178	.1269	3.577
#2	.1009	199.4	.2153	1.270	.0088	617.6	.1179	.1289	3.567
#3	.1016	198.9	.2236	1.278	.0078	615.0	.1188	.1272	3.564

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	F475.6	436.0	22.97	47.90	5.526	.2685	12.48	5.950	F29.57
Stddev	1.0	1.3	.04	.11	.005	.0006	.04	.018	.08
%RSD	.2099	.2965	.1528	.2227	.0941	.2314	.3406	.3081	.2556
#1	474.5	435.3	22.95	47.89	5.521	.2678	12.43	5.935	29.62
#2	476.4	437.5	22.95	48.01	5.531	.2690	12.51	5.944	29.49
#3	475.9	435.2	23.01	47.80	5.526	.2686	12.49	5.970	29.61

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0343	.0379	1.362	3.148	.8684	7.270	.0045	.9494	F576.0
Stddev	.0137	.0132	.002	.006	.0025	.009	.0024	.0005	2.7
%RSD	39.92	34.85	.1183	.2047	.2866	.1175	54.01	.0568	.4716
#1	.0462	.0514	1.360	3.141	.8672	7.265	.0017	.9490	572.9
#2	.0193	.0375	1.362	3.147	.8713	7.280	.0054	.9493	578.1
#3	.0373	.0249	1.363	3.154	.8667	7.265	.0063	.9500	577.0

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1785.1	5011.5	39828.	4321.6
Stddev	5.0	17.1	62.	23.4
%RSD	.28119	.34064	.15634	.54255
#1	1785.0	5030.2	39877.	4345.1
#2	1790.2	5007.6	39849.	4298.2
#3	1780.1	4996.7	39758.	4321.5

Zoom In Zoom Out

Sample Name: CCV Acquired: 2/15/2017 19:15:50 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2671	40.36	2.059	2.091	1.965	40.08	2.049	2.040	2.047	1.987
Stddev	.0014	.06	.005	.004	.003	.04	.003	.004	.005	.004
%RSD	.5239	.1381	.2676	.1986	.1367	.1057	.1599	.1864	.2362	.2160
#1	.2678	40.30	2.061	2.086	1.962	40.06	2.046	2.037	2.051	1.989
#2	.2679	40.41	2.064	2.094	1.968	40.06	2.052	2.044	2.042	1.989
#3	.2655	40.38	2.053	2.093	1.965	40.13	2.047	2.038	2.048	1.982
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.65	42.08	40.60	2.062	2.067	41.11	2.098	1.997	1.996	2.086
Stddev	.09	.11	.08	.006	.006	.05	.003	.004	.005	.003
%RSD	.2210	.2585	.1899	.3147	.2873	.1178	.1287	.1735	.2448	.1649
#1	39.60	42.13	40.55	2.069	2.062	41.06	2.096	2.001	1.991	2.088
#2	39.75	41.96	40.69	2.061	2.074	41.11	2.101	1.994	2.001	2.082
#3	39.59	42.16	40.56	2.056	2.066	41.15	2.097	1.995	1.997	2.089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.686	2.120	2.056	2.086	2.010	2.083	2.049
Stddev	.002	.002	.004	.004	.002	.005	.003
%RSD	.1419	.1038	.2055	.1850	.0873	.2187	.1647
#1	1.683	2.118	2.052	2.090	2.011	2.088	2.049
#2	1.687	2.122	2.060	2.086	2.011	2.081	2.053
#3	1.687	2.121	2.056	2.083	2.008	2.080	2.046
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 2/15/2017 19:15:50 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1745.5	4934.6	37350.	4066.5
Stddev	2.8	9.5	138.	9.1
%RSD	.16296	.19263	.36949	.22314
#1	1745.2	4942.1	37199.	4068.7
#2	1748.5	4923.9	37470.	4056.5
#3	1742.9	4937.8	37382.	4074.3

Zoom In Zoom Out

Sample Name: CCB Acquired: 2/15/2017 19:19:48 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0065	-.0001	.0002	.0001	.0091	.0001	.0000	.0001
Stddev	.0002	.0078	.0010	.0000	.0000	.0011	.0000	.000	.0002
%RSD	79.57	119.2	1937.	9.110	12.08	11.66	16.24	496.6	260.6
#1	-.0001	.0041	.0006	.0002	.0001	.0080	.0001	.0002	.0001
#2	-.0003	.0152	-.0012	.0002	.0001	.0102	.0000	-.0001	.0002
#3	-.0005	.0003	.0004	.0002	.0001	.0092	.0001	-.0001	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F.0026	.0209	.0777	-.0109	.0002	F.0011	.0220	.0003	.0000
Stddev	.0005	.0010	.0116	.0100	.0000	.0003	.0027	.0001	.001
%RSD	17.88	4.707	14.92	92.20	9.658	29.71	12.34	39.58	2133.
#1	.0021	.0221	.0858	-.0090	.0002	.0014	.0204	.0003	.0002
#2	.0030	.0202	.0644	-.0217	.0002	.0012	.0251	.0002	.0006
#3	.0028	.0206	.0829	-.0019	.0002	.0008	.0204	.0005	-.0009
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	.0020					.0010			
Low Limit	-.0020					-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	-.0011	.0009	.0006	.0003	.0005	.0010	.0000	.0032
Stddev	.0007	.0006	.0003	.0003	.0001	.0001	.0011	.000	.0003
%RSD	198.9	52.25	27.08	44.71	29.65	17.30	119.2	126.0	10.24
#1	-.0004	-.0016	.0008	.0009	.0002	.0006	.0015	.0000	.0035
#2	.0006	-.0005	.0008	.0006	.0004	.0004	.0017	-.0001	.0032
#3	.0008	-.0011	.0012	.0003	.0003	.0006	-.0004	.0000	.0029
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 2/15/2017 19:19:48 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1949.7	5140.3	39343.	4088.0
Stddev	4.9	8.2	44.	29.8
%RSD	.25179	.15941	.11102	.72962
#1	1952.8	5146.5	39343.	4122.4
#2	1944.0	5131.0	39387.	4072.0
#3	1952.2	5143.4	39300.	4069.6

Zoom In Zoom Out

Sample Name: FA40942-54 Acquired: 2/15/2017 19:24:04 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.2443	215.7	.5396	1.434	.0078	1207.	.2203	.1647	.9390
Stddev	.0018	.4	.0070	.003	.0006	2.	.0009	.0004	.0018
%RSD	.7463	.1875	1.302	.1902	7.588	.1271	.3966	.2176	.1915
#1	.2422	215.6	.5474	1.433	.0072	1209.	.2211	.1647	.9407
#2	.2451	215.3	.5338	1.432	.0080	1206.	.2194	.1643	.9371
#3	.2456	216.1	.5375	1.437	.0083	1208.	.2203	.1650	.9392

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	*****	347.5	30.84	62.84	5.551	.1435	14.98	5.745	F75.44
Stddev	-----	.5	.25	.15	.017	.0012	.02	.021	.11
%RSD	-----	.1460	.7978	.2379	.3061	.8037	.1058	.3747	.1481
#1	-----	348.1	30.79	62.94	5.532	.1439	14.99	5.765	75.36
#2	-----	347.3	30.62	62.67	5.560	.1422	14.96	5.722	75.57
#3	-----	347.1	31.10	62.92	5.562	.1444	14.99	5.748	75.39

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.2886	.0145	1.459	11.46	1.352	6.756	.0050	1.044	F829.2
Stddev	.0085	.0178	.008	.03	.003	.029	.0023	.003	4.3
%RSD	2.932	122.3	.5566	.2943	.2428	.4306	46.85	.2621	.5160
#1	.2790	.0330	1.463	11.50	1.351	6.722	.0077	1.046	834.1
#2	.2922	-.0025	1.450	11.43	1.349	6.772	.0038	1.046	827.8
#3	.2947	.0131	1.465	11.46	1.355	6.773	.0035	1.041	825.9

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1720.9	3912.1	38914.	4231.9
Stddev	1.9	14.8	46.	29.0
%RSD	.11061	.37783	.11737	.68487
#1	1721.0	3896.9	38869.	4204.2
#2	1719.0	3926.4	38912.	4229.5
#3	1722.8	3912.8	38961.	4262.0

Zoom In Zoom Out

Sample Name: FA40942-55 Acquired: 2/15/2017 19:28:19 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.1003	189.0	.3104	1.211	.0070	974.9	.1412	.1200	.9656
Stddev	.0015	1.1	.0022	.006	.0003	6.1	.0002	.0005	.0031
%RSD	1.450	.6041	.7063	.4722	4.610	.6239	.1333	.4115	.3252
#1	.1017	188.7	.3083	1.207	.0069	972.9	.1412	.1200	.9620
#2	.0988	188.1	.3103	1.208	.0074	970.1	.1413	.1204	.9680
#3	.1004	190.3	.3127	1.218	.0068	981.8	.1409	.1195	.9666

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	F434.2	318.6	22.28	46.71	4.755	.0915	5.641	3.789	F21.65
Stddev	2.9	2.2	.07	.37	.011	.0007	.048	.004	.04
%RSD	.6772	.6858	.3083	.7842	.2199	.7878	.8461	.0984	.1687
#1	430.9	317.5	22.31	46.52	4.744	.0923	5.587	3.787	21.63
#2	435.2	317.1	22.20	46.48	4.758	.0912	5.658	3.793	21.63
#3	436.5	321.1	22.32	47.13	4.764	.0909	5.678	3.786	21.69

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0580	.0261	1.262	3.159	1.080	6.768	.0064	.9877	F433.8
Stddev	.0024	.0023	.008	.005	.007	.010	.0033	.0028	.5
%RSD	4.141	8.914	.6553	.1517	.6062	.1484	50.51	.2839	.1071
#1	.0565	.0283	1.261	3.162	1.079	6.757	.0068	.9890	433.9
#2	.0566	.0237	1.270	3.153	1.075	6.776	.0095	.9897	433.3
#3	.0607	.0264	1.254	3.162	1.088	6.772	.0030	.9845	434.3

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1760.3	4979.1	39268.	4272.4
Stddev	1.7	4.3	121.	16.4
%RSD	.09772	.08695	.30707	.38304
#1	1761.1	4976.6	39324.	4286.3
#2	1761.5	4976.7	39351.	4276.5
#3	1758.4	4984.1	39130.	4254.4

Zoom In Zoom Out

Sample Name: FA40942-56 Acquired: 2/15/2017 19:32:37 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 5.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	.0924	155.4	.2906	1.112	.0060	894.7	.1166	.0967	.8621
Stddev	.0024	.3	.0009	.003	.0006	2.4	.0001	.0005	.0042
%RSD	2.561	.2218	.3228	.2231	9.753	.2634	.0548	.4852	.4867
#1	.0951	155.3	.2896	1.109	.0066	893.2	.1167	.0964	.8650
#2	.0914	155.8	.2914	1.114	.0058	897.4	.1165	.0966	.8572
#3	.0906	155.2	.2909	1.113	.0055	893.5	.1166	.0973	.8640

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	F491.5	307.3	20.93	44.07	4.454	.0856	5.290	2.237	F22.48
Stddev	1.5	.2	.08	.30	.004	.0010	.028	.007	.02
%RSD	.3113	.0543	.3730	.6769	.1006	1.117	.5203	.2977	.0942
#1	492.7	307.5	20.89	44.18	4.457	.0862	5.289	2.232	22.47
#2	492.0	307.4	21.02	44.29	4.449	.0845	5.319	2.235	22.46
#3	489.8	307.2	20.88	43.73	4.455	.0860	5.264	2.244	22.50

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.1432	.0284	1.155	4.216	.9923	6.219	.0095	.8931	F447.2
Stddev	.0166	.0113	.005	.015	.0017	.010	.0050	.0019	2.7
%RSD	11.60	39.91	.4398	.3563	.1701	.1675	52.28	.2118	.5987
#1	.1440	.0299	1.155	4.206	.9904	6.224	.0151	.8910	450.2
#2	.1262	.0164	1.150	4.208	.9931	6.226	.0077	.8939	445.0
#3	.1594	.0390	1.161	4.233	.9935	6.207	.0057	.8945	446.4

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1775.0	4945.7	39284.	4246.1
Stddev	3.2	15.5	34.	22.1
%RSD	.18247	.31439	.08624	.51963
#1	1772.8	4944.7	39247.	4268.8
#2	1778.7	4961.7	39313.	4224.7
#3	1773.4	4930.6	39291.	4244.8

Zoom In Zoom Out

Sample Name: CRIA Acquired: 2/15/2017 19:36:57 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)
Avg	.0087	.2213	.0113	.2218	.0054	1.127	.0056	.0557	.0113	.0361
Stddev	.0006	.0048	.0003	.0011	.0001	.008	.0001	.0000	.0002	.0006
%RSD	7.470	2.150	2.769	.5169	1.225	.7009	1.025	.0510	1.737	1.571
#1	.0079	.2267	.0112	.2205	.0054	1.132	.0056	.0557	.0111	.0367
#2	.0089	.2194	.0110	.2225	.0054	1.118	.0056	.0557	.0113	.0361
#3	.0092	.2178	.0116	.2224	.0053	1.131	.0057	.0557	.0115	.0355

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)
Avg	.3647	11.46	5.626	.0168	.0517	11.26	.0461	.0050	.0049	.0091
Stddev	.0040	.07	.059	.0000	.0002	.01	.0002	.0005	.0009	.0012
%RSD	1.102	.6004	1.040	.1832	.4040	.0950	.3700	10.63	18.08	12.65
#1	.3692	11.38	5.560	.0168	.0516	11.27	.0460	.0046	.0050	.0085
#2	.3615	11.51	5.645	.0169	.0517	11.25	.0460	.0047	.0040	.0104
#3	.3634	11.49	5.672	.0168	.0520	11.27	.0463	.0056	.0057	.0084

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0073	.0557	.0104	.0109	.0107	.0517	.0315
Stddev	.0006	.0002	.0000	.0002	.0011	.0004	.0013
%RSD	7.617	.3361	.1527	1.823	10.19	.7880	4.087
#1	.0071	.0556	.0104	.0109	.0096	.0521	.0327
#2	.0069	.0558	.0104	.0108	.0107	.0515	.0315
#3	.0080	.0559	.0104	.0112	.0118	.0514	.0302

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1913.0	5129.1	38962.	4072.4
Stddev	2.1	4.3	62.	2.7
%RSD	.10874	.08421	.15978	.06563
#1	1914.5	5129.8	38916.	4073.9
#2	1913.9	5133.1	39033.	4069.4
#3	1910.7	5124.5	38938.	4074.1

Zoom In Zoom Out

Sample Name: ICSA Acquired: 2/15/2017 19:41:07 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	-.0003	F507.8	.0000	-.0003	-.0001	475.0	.0000	-.0005	.0000
Stddev	.0003	10.1	.0017	.0002	.0001	1.3	.0000	.0001	.0000
%RSD	105.5	1.984	4491.	76.51	66.09	.2768	58.84	16.68	102.4
#1	-.0004	517.3	-.0018	-.0003	.0000	474.5	.0000	-.0005	.0000
#2	-.0005	508.9	.0016	-.0001	-.0001	476.5	.0001	-.0004	.0001
#3	.0000	497.2	.0003	-.0006	-.0001	474.0	.0000	-.0006	.0000

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.0019	182.4	.1757	F517.6	-.0009	-.0002	.1698	-.0002	.0004
Stddev	.0007	.1	.0185	.6	.0000	.0002	.0085	.0001	.0028
%RSD	34.70	.0800	10.51	.1215	1.303	99.10	5.025	43.77	683.6
#1	.0017	182.6	.1645	518.0	-.0009	.0000	.1601	-.0001	-.0020
#2	.0014	182.4	.1970	517.9	-.0009	-.0003	.1736	-.0003	-.0002
#3	.0027	182.3	.1656	516.9	-.0009	-.0004	.1758	-.0002	.0034

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	.0021	.0005	.0066	.0027	-.0003	.0002	.0007	.0007	.0023
Stddev	.0030	.0038	.0005	.0004	.0001	.0002	.0014	.0001	.0003
%RSD	144.1	753.2	7.266	13.32	17.31	80.03	187.5	10.67	10.76
#1	.0038	-.0026	.0062	.0029	-.0003	.0001	-.0008	.0008	.0026
#2	.0038	.0048	.0065	.0023	-.0003	.0001	.0019	.0007	.0022
#3	-.0014	-.0006	.0072	.0030	-.0004	.0004	.0011	.0007	.0022

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1548.0	4616.2	34501.	3891.3
Stddev	.8	6.3	185.	10.4
%RSD	.04962	.13646	.53682	.26758
#1	1547.1	4621.7	34450.	3881.7
#2	1548.6	4617.7	34346.	3889.7
#3	1548.3	4609.3	34706.	3902.4

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 2/15/2017 19:45:29 Type: Unk
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3600)
Avg	F.9607	F507.8	1.191	.5441	.5003	471.8	.9982	.4993	.5288
Stddev	.0040	3.8	.005	.0012	.0007	4.3	.0014	.0006	.0024
%RSD	.4158	.7391	.3866	.2150	.1393	.9222	.1356	.1290	.4574
#1	.9627	508.9	1.194	.5429	.5004	466.9	.9986	.4995	.5310
#2	.9560	503.7	1.186	.5452	.4996	473.3	.9966	.4986	.5262
#3	.9632	510.9	1.193	.5443	.5010	475.2	.9992	.4999	.5293

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_2243)	(In2306)
Avg	.5432	177.1	.1792	F509.5	.5152	.9900	.1898	1.032	1.020
Stddev	.0017	.3	.0121	1.3	.0026	.0011	.0016	.002	.002
%RSD	.3162	.1918	6.746	.2479	.5092	.1076	.8455	.1904	.1736
#1	.5449	176.8	.1686	508.2	.5178	.9911	.1916	1.033	1.018
#2	.5431	177.1	.1924	510.7	.5125	.9897	.1890	1.029	1.021
#3	.5415	177.5	.1767	509.6	.5154	.9890	.1887	1.032	1.021

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)	(Y_3600)	(Y_2243)
Avg	1.096	1.129	.0381	1.009	1.029	1.049	1.036	.4892	.9939
Stddev	.004	.003	.0009	.002	.001	.003	.007	.0017	.0018
%RSD	.4108	.2779	2.258	.2377	.1223	.3286	.6926	.3522	.1772
#1	1.100	1.132	.0391	1.011	1.028	1.053	1.028	.4911	.9923
#2	1.096	1.126	.0375	1.007	1.028	1.046	1.041	.4887	.9936
#3	1.091	1.129	.0377	1.009	1.030	1.050	1.038	.4878	.9958

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Avg	1529.1	4600.4	34381.	3923.2
Stddev	4.8	3.1	115.	16.7
%RSD	.31575	.06711	.33486	.42512
#1	1534.1	4603.7	34316.	3939.7
#2	1524.5	4600.0	34513.	3906.4
#3	1528.6	4597.6	34312.	3923.3

Zoom In Zoom Out

Sample Name: CCV Acquired: 2/15/2017 19:49:45 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2631	40.45	2.057	2.069	1.961	40.17	2.047	2.038	2.034	1.970
Stddev	.0009	.05	.003	.005	.005	.05	.002	.001	.002	.009
%RSD	.3575	.1358	.1290	.2465	.2594	.1234	.0843	.0497	.0751	.4321
#1	.2642	40.41	2.054	2.067	1.961	40.12	2.046	2.037	2.033	1.961
#2	.2626	40.43	2.059	2.075	1.956	40.20	2.047	2.039	2.036	1.971
#3	.2626	40.51	2.057	2.066	1.966	40.20	2.049	2.039	2.035	1.977
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.36	42.41	40.55	2.037	2.062	41.05	2.084	1.996	2.001	2.073
Stddev	.12	.04	.12	.003	.002	.04	.002	.003	.003	.004
%RSD	.2989	.0898	.2869	.1486	.0939	.1030	.1152	.1440	.1461	.2173
#1	39.23	42.42	40.58	2.034	2.059	41.01	2.081	1.993	2.003	2.078
#2	39.47	42.44	40.65	2.040	2.063	41.05	2.083	1.995	1.998	2.069
#3	39.38	42.36	40.42	2.038	2.063	41.09	2.086	1.999	2.002	2.073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value										
Range										

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.679	2.114	2.057	2.063	2.006	2.071	2.038
Stddev	.004	.005	.006	.001	.003	.001	.002
%RSD	.2216	.2208	.2824	.0409	.1557	.0495	.0826
#1	1.675	2.110	2.053	2.062	2.002	2.073	2.038
#2	1.680	2.114	2.053	2.062	2.007	2.071	2.037
#3	1.683	2.119	2.063	2.064	2.008	2.071	2.040
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Zoom In Zoom Out

Sample Name: CCV Acquired: 2/15/2017 19:49:45 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1751.7	4949.3	37634.	3998.0
Stddev	1.7	.1	132.	24.6
%RSD	.09574	.00189	.35056	.61459
#1	1753.3	4949.3	37585.	4025.9
#2	1751.8	4949.2	37534.	3979.6
#3	1750.0	4949.4	37784.	3988.5

Zoom In Zoom Out

Sample Name: CCB Acquired: 2/15/2017 19:53:42 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Ba4554	Be3130	Ca3179	Cd2265	Co2286	Cr2677
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0073	-.0004	.0001	.0001	.0148	.0001	-.0001	.0001
Stddev	.0003	.0107	.0007	.0004	.0001	.0018	.0000	.0001	.0002
%RSD	216.5	147.3	200.8	326.7	62.29	12.12	56.91	162.3	255.4
#1	-.0004	.0091	.0002	.0005	.0001	.0147	.0000	-.0001	.0003
#2	-.0001	-.0042	-.0011	-.0002	.0000	.0131	.0001	.0001	.0001
#3	.0002	.0170	-.0001	.0000	.0002	.0167	.0001	-.0002	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cu3247	Fe2599	K_7664	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0195	.0519	.0181	.0001	F.0013	.0338	.0003	.0002
Stddev	.0001	.0046	.0138	.0164	.0000	.0005	.0057	.0003	.0005
%RSD	29.34	23.29	26.57	90.63	21.84	34.46	16.73	98.72	328.1
#1	.0005	.0219	.0557	.0179	.0001	.0017	.0399	.0000	.0000
#2	.0006	.0224	.0634	.0345	.0002	.0015	.0288	.0004	.0008
#3	.0004	.0143	.0366	.0018	.0001	.0008	.0327	.0005	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						.0010			
Low Limit						-.0010			

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015	-.0004	.0008	.0006	.0002	.0005	.0000	.0000	.0006
Stddev	.0009	.0012	.0007	.0002	.0000	.0000	.000	.000	.0001
%RSD	60.89	304.9	92.43	38.99	21.62	5.173	1281.	935.2	9.249
#1	.0017	.0009	.0000	.0009	.0003	.0005	-.0003	.0000	.0007
#2	.0023	-.0016	.0012	.0004	.0002	.0005	.0003	-.0003	.0007
#3	.0005	-.0005	.0011	.0005	.0002	.0005	.0000	.0003	.0006
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Inst QC: MA13817

Zoom In
Zoom Out

Sample Name: CCB Acquired: 2/15/2017 19:53:42 Type: QC
Method: 60102007_041712(v544) Mode: CONC Corr. Factor: 1.000000
User: admin SSTRACE02: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1943.8	5127.4	39184.	4015.5
Stddev	2.9	2.6	111.	37.3
%RSD	.14964	.04998	.28382	.92877
#1	1946.1	5128.4	39275.	3998.2
#2	1940.5	5129.2	39060.	4058.3
#3	1944.9	5124.4	39218.	3989.9

SGS ACCUTEST
FA41143

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Ag 328.068 {103}	X	3	V	-0.009834	0.000000	No
			Fe	-0.000001	0.000000	No
			Mg	0.000002	0.000000	No
Al 396.152 { 85}	X	1	Mo	0.035224	0.000000	No
As 189.042 {478}	X	5	Fe	-0.000061	0.000000	No
			Cr	-0.000226	0.000000	No
			Mo	-0.000017	0.000000	No
			Al	0.000004	0.000000	No
			Ca	0.000002	0.000000	No
Ba 455.403 { 74}	X	1	Fe	0.000024	0.000000	No
Be 313.042 {108}	X	2	V	0.000115	0.000000	No
			Ti	-0.000059	0.000000	No
Ca 317.933 {106}	X	None				
Cd 226.502 {449}	X	4	Fe	0.000060	0.000000	No
			Ca	0.000001	0.000000	No
			Al	-0.000001	0.000000	No
			Ti	0.000151	0.000000	No
Co 228.616 {447}	X	3	Mo	-0.001220	0.000000	No
			Ti	0.003012	0.000000	No
			Fe	0.000012	0.000000	No
Cr 267.716 {126}	X	3	Al	0.000005	0.000000	No
			Fe	0.000011	0.000000	No
			Ca	0.000002	0.000000	No
Cu 324.754 {104}	X	10	Fe	-0.000197	0.000000	No
			Ca	0.000002	0.000000	No
			Mo	0.000528	0.000000	No
			Sn	-0.000012	0.000000	No
			V	-0.000158	0.000000	No
			Ti	-0.000251	0.000000	No
			Al	0.000004	0.000000	No
			Mg	0.000002	0.000000	No
			Co	-0.000787	0.000000	No
			Cd	0.000240	0.000000	No
Fe 259.940 {130}	X	None				
In 230.606 {446}*	X	None				
K 766.490 { 44}	X	None				
Mg 279.079 {121}	X	None				
Mn 257.610 {131}	X	2	Fe	0.000016	0.000000	No
			Mg	0.000001	0.000000	No
Mo 202.030 {467}	X	1	Fe	-0.000016	0.000000	No
Na 589.592 { 57}	X	None				
Ni 231.604 {445}	X	7	Fe	-0.000041	0.000000	No
			Co	-0.000054	0.000000	No
			Mo	0.000005	0.000000	No
			Sb	-0.000120	0.000000	No
			Al	0.000003	0.000000	No
			Be	-0.000269	0.000000	No
			Tl	0.000440	0.000000	No
Pb 220.353 {453}	X	9	Al	0.000261	0.000000	No
			Fe	-0.000116	0.000000	No
			Mo	-0.001012	0.000000	No
			Cu	0.001070	0.000000	No
			Ti	0.000036	0.000000	No
			Si	0.000071	0.000000	No
			Ca	-0.000005	0.000000	No
			Cr	0.000050	0.000000	No
			Mg	0.000004	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Sb 206.833 {463}	☒	10	Fe	0.000018	0.000000	No
			Cr	0.012140	0.000000	No
			Mo	-0.004076	0.000000	No
			V	-0.000611	0.000000	No
			Sn	-0.010736	0.000000	No
			Ti	0.000040	0.000000	No
			Ca	0.000004	0.000000	No
			Ni	-0.000438	0.000000	No
			Mg	-0.000002	0.000000	No
			Al	0.000003	0.000000	No
Se 196.090 {472}	☒	10	Fe	-0.000095	0.000000	No
			Ca	-0.000001	0.000000	No
			Mn	0.000574	0.000000	No
			Mo	0.000111	0.000000	No
			Al	-0.000024	0.000000	No
			V	0.000000	0.000000	No
			Zn	0.000000	0.000000	No
			Sr	0.000137	0.000000	No
			As	-0.000032	0.000000	No
			Be	0.000212	0.000000	No
Si 212.412 {459}	☒	1	Mo	0.019120	0.000000	No
Sn 189.989 {477}	☒	None				
Sr 407.771 { 83}	☒	1	Ca	0.000097	0.000000	No
Ti 334.941 {101}	☒	1	Ca	-0.000011	0.000000	No
Tl 190.856 {477}	☒	11	Co	0.001145	0.000000	No
			Fe	0.000014	0.000000	No
			Al	-0.000011	0.000000	No
			Ba	-0.000051	0.000000	No
			Ti	-0.002651	0.000000	No
			Sb	0.000012	0.000000	No
			Ca	0.000003	0.000000	No
			Cr	0.000230	0.000000	No
			Mg	-0.000003	0.000000	No
			Mn	0.000818	0.000000	No
			V	-0.038621	0.000000	No
V 292.402 {115}	☒	5	Fe	0.000003	0.000000	No
			Cr	-0.002590	0.000000	No
			Mo	-0.005797	0.000000	No
			Ti	0.000364	0.000000	No
			Mn	-0.000693	0.000000	No
Y 224.306 {450}*	☒	None				
Y 360.073 { 94}*	☒	None				
Y 371.030 { 91}*	☒	None				
Zn 206.200 {463}	☒	5	Cr	-0.000965	0.000000	No
			Al	0.000005	0.000000	No
			Ca	0.000003	0.000000	No
			Fe	0.000046	0.000000	No
			As	0.001128	0.000000	No

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)
Ag 328.068 {103}	2/15/2017 9:57:43	2/15/2017 9:20:20	Linear	1/Conc	-0.001074	0.515279	0.000000	1.000000
Al 396.152 { 85}	2/15/2017 9:57:43	2/15/2017 9:20:20	Linear	1/Conc	0.001692	0.180578	0.000000	1.000000
As 189.042 {478}	2/15/2017 9:57:43	2/15/2017 9:20:20	Linear	1/Conc	-0.000468	0.200467	0.000000	1.000000
Ba 455.403 { 74}	2/15/2017 9:57:43	2/15/2017 9:20:20	Linear	1/Conc	0.003329	9.638264	0.000000	1.000000
Be 313.042 {108}	2/15/2017 9:57:43	2/15/2017 9:20:20	Linear	1/Conc	0.000633	8.623197	0.000000	1.000000
Ca 317.933 {106}	2/15/2017 9:57:43	2/15/2017 9:20:20	Linear	1/Conc	0.006235	0.304286	0.000000	1.000000
Cd 226.502 {449}	2/15/2017 9:57:43	2/15/2017 9:20:20	Linear	1/Conc	-0.000374	5.481953	0.000000	1.000000
Co 228.616 {447}	2/15/2017 9:57:43	2/15/2017 9:20:20	Linear	1/Conc	0.000619	2.613790	0.000000	1.000000
Cr 267.716 {126}	2/15/2017 9:57:43	2/15/2017 9:20:20	Linear	1/Conc	0.000546	0.494464	0.000000	1.000000
Cu 324.754 {104}	2/15/2017 9:57:43	2/15/2017 9:20:20	Linear	1/Conc	0.001501	0.633191	0.000000	1.000000
Fe 259.940 {130}	2/15/2017 9:57:43	2/15/2017 9:20:20	Linear	1/Conc	0.000400	0.162976	0.000000	1.000000
In 230.606 {446}*	2/15/2017 9:57:43	5/5/2010 12:30:54	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
K 766.490 { 44}	2/15/2017 9:57:43	2/15/2017 9:20:20	Linear	1/Conc	-0.001083	0.112070	0.000000	1.000000
Mg 279.079 {121}	2/15/2017 9:57:43	2/15/2017 9:20:20	Linear	1/Conc	-0.000088	0.026844	0.000000	1.000000
Mn 257.610 {131}	2/15/2017 9:57:43	2/15/2017 9:20:20	Linear	1/Conc	0.000227	2.142910	0.000000	1.000000
Mo 202.030 {467}	2/15/2017 9:57:43	2/15/2017 9:20:20	Linear	1/Conc	0.000353	1.163036	0.000000	1.000000
Na 589.592 { 57}	2/15/2017 9:57:43	2/15/2017 9:20:20	Linear	1/Conc	-0.005622	0.453039	0.000000	1.000000
Ni 231.604 {445}	2/15/2017 9:57:43	2/15/2017 9:20:20	Linear	1/Conc	-0.000154	1.271897	0.000000	1.000000
Pb 220.353 {453}	2/15/2017 9:57:43	2/15/2017 9:20:20	Linear	1/Conc	0.001370	1.349605	0.000000	1.000000
Sb 206.833 {463}	2/15/2017 9:57:43	2/15/2017 9:20:20	Linear	1/Conc	0.000148	0.226597	0.000000	1.000000
Se 196.090 {472}	2/15/2017 9:57:43	2/15/2017 9:20:20	Linear	1/Conc	-0.001201	0.133386	0.000000	1.000000
Si 212.412 {459}	2/15/2017 9:57:43	2/15/2017 9:20:20	Linear	1/Conc	0.003048	0.430252	0.000000	1.000000
Sn 189.989 {477}	2/15/2017 9:57:43	2/15/2017 9:20:20	Linear	1/Conc	0.000565	0.544317	0.000000	1.000000
Sr 407.771 { 83}	2/15/2017 9:57:43	2/15/2017 9:20:20	Linear	1/Conc	-0.007744	16.330439	0.000000	1.000000
Ti 334.941 {101}	2/15/2017 9:57:43	2/15/2017 9:20:20	Linear	1/Conc	0.001512	1.629838	0.000000	1.000000
Tl 190.856 {477}	2/15/2017 9:57:43	2/15/2017 9:20:21	Linear	1/Conc	-0.003233	0.635863	0.000000	1.000000
V 292.402 {115}	2/15/2017 9:57:43	2/15/2017 9:20:21	Linear	1/Conc	0.000148	0.693885	0.000000	1.000000
Y 224.306 {450}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
Y 360.073 { 94}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
Y 371.030 { 91}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
Zn 206.200 {463}	2/15/2017 9:57:43	2/15/2017 9:20:21	Linear	1/Conc	0.002535	3.142621	0.000000	1.000000

	Element, Wavelength and Order	Correlation	Std Error of Est	Predicted MDL	Predicted MQL	Status	Reslope		QC Norm	
							Slope	Y-int	Slope factor	Offset
	Ag 328.068 {103}	0.999797	0.000096	0.000475	0.001584	OK.	1.000000	0.000000	1	0
	Al 396.152 { 85}	0.999872	0.004655	0.009972	0.033238	OK.	1.000000	0.000000	1	0
	As 189.042 {478}	0.999975	0.000113	0.000848	0.002826	OK.	1.000000	0.000000	1	0
	Ba 455.403 { 74}	0.999990	0.003551	0.000246	0.000819	OK.	1.000000	0.000000	1	0
	Be 313.042 {108}	0.999894	0.010103	0.000086	0.000288	OK.	1.000000	0.000000	1	0
	Ca 317.933 {106}	0.999908	0.006646	0.002984	0.009948	OK.	1.000000	0.000000	1	0
	Cd 226.502 {449}	0.999915	0.005757	0.000047	0.000156	OK.	1.000000	0.000000	1	0
	Co 228.616 {447}	0.999928	0.002535	0.000106	0.000353	OK.	1.000000	0.000000	1	0
	Cr 267.716 {126}	0.999891	0.000587	0.000299	0.000996	OK.	1.000000	0.000000	1	0
	Cu 324.754 {104}	0.999978	0.000335	0.000351	0.001171	OK.	1.000000	0.000000	1	0
	Fe 259.940 {130}	0.999810	0.005113	0.002832	0.009441	OK.	1.000000	0.000000	1	0
	In 230.606 {446}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
	K 766.490 { 44}	0.999831	0.003318	0.031701	0.105669	OK.	1.000000	0.000000	1	0
	Mg 279.079 {121}	0.999894	0.000630	0.021580	0.071933	OK.	1.000000	0.000000	1	0
	Mn 257.610 {131}	0.999709	0.004168	0.000058	0.000195	OK.	1.000000	0.000000	1	0
	Mo 202.030 {467}	0.999910	0.001254	0.000147	0.000491	OK.	1.000000	0.000000	1	0
	Na 589.592 { 57}	0.999871	0.011741	0.007844	0.026147	OK.	1.000000	0.000000	1	0
	Ni 231.604 {445}	0.999929	0.001222	0.000213	0.000709	OK.	1.000000	0.000000	1	0
	Pb 220.353 {453}	0.999991	0.000470	0.000548	0.001828	OK.	1.000000	0.000000	1	0
	Sb 206.833 {463}	0.999988	0.000090	0.001198	0.003993	OK.	1.000000	0.000000	1	0
	Se 196.090 {472}	0.999989	0.000051	0.001922	0.006407	OK.	1.000000	0.000000	1	0
	Si 212.412 {459}	0.992049	0.004480	0.000449	0.001498	OK.	1.000000	0.000000	1	0
	Sn 189.989 {477}	0.999852	0.000753	0.000263	0.000875	OK.	1.000000	0.000000	1	0
	Sr 407.771 { 83}	0.999817	0.025213	0.000092	0.000308	OK.	1.000000	0.000000	1	0
	Ti 334.941 {101}	0.999786	0.002712	0.000137	0.000458	OK.	1.000000	0.000000	1	0
	Tl 190.856 {477}	0.999982	0.000292	0.000753	0.002511	OK.	1.000000	0.000000	1	0
	V 292.402 {115}	0.999925	0.000680	0.000278	0.000927	OK.	1.000000	0.000000	1	0
	Y 224.306 {450}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
	Y 360.073 { 94}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
	Y 371.030 { 91}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
	Zn 206.200 {463}	0.999906	0.003472	0.000060	0.000201	OK.	1.000000	0.000000	1	0

SGS Accutest - Orlando Metals Digestion Log Soil

MP #: 31641 Method of Digestion: SW846-3050B

Prep Date/Time (mm/dd/yy 24:00): 02/15/17; 11:25

HotBlock I.D. 5

Thermometer I.D. 204

Correction Factor (°C) -1

Temperature Observed/Corrected (°C) 93/92

Balance I.D. ADVAP03

Spk. Sol. [A]	Volume Used(ml)	Pipette #
ACC979	0.50	10
ACC978	6.25	10
Met5661	0.25	10

Filter Lot#: 140820014

Dig. Tube Lot# 11605323

Added [B]:

H_2O_2	HNO_3	HCL	PTFE Boiling Chips
Lot# 1641167	0000133393	0000132880	5941-6 I019

Sample #		Wt., g	Final Volume(ml)	Comments
Method Blank(MB)		1.0	50.0	
Spike Blank(SB)		↓	↓	
Matrix Spike(MS)		1.03		
Matrix Spike Dup(MSD)		1.50		
Duplicate(DUP)		1.19		
1 QC [C] FA41143-1	[D] 2	1.22		
2 FA40942-37	↓	1.03		
3	-38	1.08		
4	-39	2 1.59		
5	-40	1.11		
6	-41	1.24		
7	-42	1.13		
8	-43	1.09		
9	-44	1.00		
10	-45	1.06		
11	-46	1 1.07		
12	-47	2 1.10		
13	-48	1.00		
14	-49	1.00		
15	-50	1.66		
16	-51	1.05		
17	-52	1.15		
18	-54	1.10		
19	-55	1.09		
20	-56	1.03	↓	
21 [E]				
22 [E]				
23 [E]				
24 [E]				

(b) (6) 02/15/17

Analyst: (b) (6) Date: 02/15/17

QC Review: Date: 2.15.17

A Used for SB, MS, MSD
B For reagent volumes used consult SOP MET 104, current revision
C Parent sample used to prepare MS, MSD, DUP
D Bottle Number
E Additional Matrix QC

icpsoildigestionlog 0316.xls Rev 03/04/16 DM

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Job Number: FA41143
Account: ARCTXEL Arcadis-US, Inc
Project: Castner Firing Range; Ft Bliss, TX

Sample: FA41143-1 **Analyzed:** 16-FEB-17 by SB **Method:** SM19 2540G
ClientID: FTBL-SB-01-0-0.5-020717 QA

Wet Weight (Total)	8.99	g
Tare Weight	2.56	g
Dry Weight (Total)	8.72	g
Solids, Percent	95.8	%

LABORATORY DATA CONSULTANTS, INC.
2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

ARCADIS U.S., Inc.
401 E. Main Street, Suite 400
El Paso, TX 79901
(b) (6)

April 14, 2017

SUBJECT: Fort Bliss, Castner Range, Data Validation

(b) (6)

Enclosed are the final validation reports for the fractions listed below. This SDG was received on February 27, 2017. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #38178:

SDG #	**Fraction:**
FA41143	Explosives, Metals

The data validation was performed under Level III guidelines. The analyses were validated using the following documents, as applicable to each method:

- Final Quality Assurance Project Plan, Military Munitions Response Program Remedial Investigation, Closed Castner Firing Range, Fort Bliss, El Paso, Texas, February 2015
- U.S. Department of Defense Quality Systems Manual for Environmental Laboratories, 5.0, July 2013
- USEPA, Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, October 1999
- USEPA, Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review, October 2004
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; update IV, February 2007; update V, July 2014

Please feel free to contact us if you have any questions.

Sincerely,

(b) (6)

EDD 90/10 ADR/IV

LDC #38178 (Arcadis-Millersville, MD / Fort Bliss, Castner Range)

LDC	SDG#	DATE REC'D	(2) DATE DUE	(7) Metals (6020A)		(7) Metals (6010C)		Sb,Pb (6020A)		As,Zn (6020A)		Pb (6020A)		Zn (6020A)		Expl. (8330B)																					
Matrix: Water/Soil-Sediment				W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
D	FA41143	02/27/17	03/13/17	-	-	0	1	-	-	-	-	-	-	-	-	0	1																		
Total	T/PG			0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

Shaded cells indicate Level IV validation (all other cells are ADR validation). These sample counts do not include MS/MSD, and DUPs

L:\Arcadis\Fort Bliss-Castner Range\38178ST_D.wpd

Data Validation Report
Fort Bliss, Castner Range

SDG: FA41143

Prepared for

Arcadis U.S., Inc.
401 E. Main Street, Suite 400
El Paso, TX 79901

Prepared by

Laboratory Data Consultants, Inc.
2701 Loker Ave West, Suite 220
Carlsbad, CA 92010

April 13, 2017

INTRODUCTION

This Data Validation Report (DVR) presents Level III data validation results for samples collected during the February 2017 sampling period. Data validation was performed in accordance with the Final Quality Assurance Project Plan (QAPP), Military Munitions Response Program Remedial Investigation Closed Castner Firing Range, Fort Bliss, El Paso, Texas (February 2015), the U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.0 (July 2013), a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines (CLPNFG) for Organic Superfund Data Review (October 1999) and the EPA CLPNFG for Inorganic Superfund Data Review (October 2004). Where specific guidance is not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Explosives by Environmental Protection Agency (EPA) SW 846 Method 8330B
Metals by EPA SW 846 Method 6010C

The sample identification and methods of analyses performed on each sample is presented in Attachment 1. Please note that sample names had to be truncated due to database limitations. Overall data qualification summary is presented in Attachment 2. Level III Automated Data Review outliers are presented in Enclosure I.

All sample results were subjected to Level III data validation, which comprises an evaluation of quality control (QC) summary results for sample holding times, instrument performance check, initial and continuing calibrations, laboratory blanks, initial and continuing calibration blanks (ICB/CCBs), interference check (ICSA and ICSAB) samples, surrogates, matrix spike/matrix spike duplicate (MS/MSD), serial dilutions, duplicate sample analysis (DUP), laboratory control sample (LCS), split duplicate samples, and internal standards.

Automated data review was performed on all QC summary results using the Automated Data Review (ADR) software program (LDC, 2013) with exception of the instrument performance check, calibrations, interference check samples, ICB/CCBs, serial dilutions, split duplicate samples, and internal standards which were validated manually. Quality assurance (QA)/QC criteria specified in the QAPP, DoD QSM and CLPNFGs were incorporated with the program's reference library to assess compliance with project requirements.

The following are definitions of the data qualifiers:

J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.

U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the analyte should be considered non-detect at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.

NJ (Presumptive): Presumptive evidence of presence of the compound at an estimated quantity.

NA (Not applicable): Data did not warrant qualification since detected results only are affected and the compound was not detected in the associated samples.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt & Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. Instrument Performance Check

Instrument performance was checked at the frequency required by the methods.

All criteria for the instrument performance check were met.

III. Initial Calibration and Initial Calibration Verification

All criteria for the initial calibration and initial calibration verifications of the methods were met.

IV. Continuing Calibration

All criteria for the continuing calibration verifications of the methods were met.

V. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

VI. Laboratory Blanks

Laboratory blanks were performed as required by the methods. No contaminant concentrations were detected in the laboratory blanks reviewed by the ADR software program with the exception of one blank for antimony. The associated sample results were not detected or were significantly greater than the concentrations found in the blanks, therefore no data were qualified. The details are presented in Enclosure I.

VII. Field Blanks

No field blanks were identified in this SDG.

VIII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the exception of one MS/MSD pair for several metals. The associated sample results were qualified as detected estimated (J) or non-detected estimated (UJ) as applicable. No data were qualified where sample concentrations were significantly greater (>4x) than the spike amount or when the post digestate spike was within QC limits. The details are presented in Enclosure I.

IX. Duplicate Sample Analysis

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits with the exception of one DUP for copper. The associated sample results were qualified as detected estimated (J) as applicable. The details regarding the qualification of data are provided in Enclosure I.

X. Serial Dilution

Serial dilution analysis was performed on an associated project sample. The analysis criteria were met.

XI. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the methods. Percent recoveries (%R) were within QC limits with the exception of one LCS for tetryl. The associated sample results were qualified as non-detected estimated (UJ) as applicable. The details regarding the qualification of data are provided in Enclosure I.

XII. Field Duplicates/Split Samples

No field duplicates were identified in this SDG.

Samples FTBL-SB-01-0-0.5-020717-QA and FTBL-SB-01-0-0.5-020717 (from SDG K1701351) were identified as split samples. No analytes were detected in any of the split samples with the following exceptions:

Analyte	Concentration (mg/Kg)		RPD (≤50)	Qualifiers
	FTBL-SB-01-0-0.5-020717 (SDG: K1701351)	FTBL-SB-01-0-0.5-020717-QA (SDG: FA41143)		
Antimony	0.295	0.65	75	No Qual
Arsenic	5.48	5.0	9	-
Beryllium	0.898	0.80	12	-
Copper	20.9	42.0	67	J (all detects)
Lead	50.3	50.4	0	-
Nickel	8.88	7.5	17	-
Zinc	57.4	47.1	20	-
Nitrobenzene	0.075U	0.010	153	No Qual

No qualifiers were applied when one or both results were less than 5X the LOQ.

XIII. Internal Standards

All internal standard areas and percent recoveries were within QC limits.

XIV. Compound Quantitation

The laboratory reporting limits were evaluated. All laboratory reporting limits met the specified requirements.

All compounds reported below the LOQ as detected by the laboratory were qualified as detected estimated (J). The details regarding the qualification of data are provided in Enclosure I.

XV. Overall Assessment of Data

The analysis was conducted within all specifications of the methods. No results were rejected in this SDG.

Due to MS/MSD %R and RPD, DUP RPD, LCS %R, split sample RPD, and results below the LOQ, data were qualified as estimated in one sample.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

Data flags are summarized and are presented as Attachment 2.

Attachment 1

Sample Cross Reference

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
07-Feb-2017	FTBL-SB-01-0-0.5-QA	FA41143-1	N	6010C	6010C	III
07-Feb-2017	FTBL-SB-01-0-0.5-QA	FA41143-1	N	8330B	8330B	III
07-Feb-2017	FTBL-SB-01-0-0.5-QADUP	MP31641-D1	DUP	6010C	6010C	III
07-Feb-2017	FTBL-SB-01-0-0.5-QAMS	MP31641-S1	MS	6010C	6010C	III
07-Feb-2017	FTBL-SB-01-0-0.5-QAMSD	MP31641-S2	MSD	6010C	6010C	III
07-Feb-2017	FTBL-SB-01-0-0.5-QAMS	OP63860-MS	MS	8330B	8330B	III
07-Feb-2017	FTBL-SB-01-0-0.5-QAMSD	OP63860-MSD	MSD	8330B	8330B	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation
N = Normal Sample
FD = Field Duplicate
TB = Trip Blank
FB = Field Blank
MS = Matrix Spike
MSD = Matrix Spike Duplicate

Attachment 2

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: FA41143 **Laboratory: ACTO**

EDD Filename: FA41143-SEDD_2a_1 **eQAPP Name: Arcadis_FtBliss_ALS_170316**

Method Category: **METALS**

Method: **6010C** ***Matrix:*** **Soil**

Sample ID: **FTBL-SB-01-0-0.5-020717 QA** ***Collected:*** **2/7/2017 9:55:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **5**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
ANTIMONY	0.65	J	1.1	LOD	4.3	LOQ	mg/Kg	J	RI, Ms
ARSENIC	5.0		1.1	LOD	2.1	LOQ	mg/Kg	J	Ms
BERYLLIUM	0.80	J	0.21	LOD	1.1	LOQ	mg/Kg	J	RI, Ms
COPPER	42.0		0.43	LOD	5.3	LOQ	mg/Kg	J	Ms, Ld, Fd
NICKEL	7.5	J	0.21	LOD	8.6	LOQ	mg/Kg	J	RI, Ms
LEAD	50.4		0.86	LOD	4.3	LOQ	mg/Kg	J	Ms

Method Category: **SVOA**

Method: **8330B** ***Matrix:*** **Soil**

Sample ID: **FTBL-SB-01-0-0.5-020717 QA** ***Collected:*** **2/7/2017 9:55:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
Tetryl	75	U	75	LOD	100	LOQ	ug/Kg	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: Castner Firing Range; Ft Bliss, TX

Data Qualifier Summary

Lab Reporting Batch ID: FA41143 **Laboratory: ACTO**

EDD Filename: FA41143-SEDD_2a_1 **eQAPP Name: Arcadis_FtBliss_ALS_170316**

Reason Code Legend

Reason Code	*Description*
Fd	Field Duplicate Precision
Lcs	Laboratory Control Spike Lower Estimation
Lcs	Laboratory Control Spike Upper Estimation
Ld	Laboratory Duplicate Precision
Mb	Method Blank Contamination
Ms	Matrix Spike Lower Estimation
Ms	Matrix Spike Lower Rejection
Ms	Matrix Spike Precision
Ms	Matrix Spike Upper Estimation
RI	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: - USACE Project: Castner Firing Range; Ft Bliss, TX

Enclosure I

Level III ADR Outliers

(Including Manual Review Outliers)

Quality Control
Outlier Reports

FA41143

Method Blank Outlier Report

Lab Reporting Batch ID: FA41143 **Laboratory: ACTO**

EDD Filename: FA41143-SEDD_2a_1 **eQAPP Name: Arcadis_FtBliss_ALS_170316**

Method: **6010C**
Matrix: **Soil**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
MP31641-MB1	2/15/2017 5:17:00 PM	ANTIMONY	0.075 mg/Kg	FTBL-SB-01-0-0.5-020717 QA

Project Name and Number: - USACE Project: Castner Firing Range; Ft Bliss, TX

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: FA41143 **Laboratory: ACTO**

EDD Filename: FA41143-SEDD_2a_1 **eQAPP Name: Arcadis_FtBliss_ALS_170316**

Method: **6010C**
Matrix: **Soil**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
FTBL-SB-01-0-0.5-020717 QAMSD (Dry) (FTBL-SB-01-0-0.5-020717 QA)	LEAD	-	120.1	84.00-118.00	-	LEAD	J (all detects)
FTBL-SB-01-0-0.5-020717 QAMS (Dry) FTBL-SB-01-0-0.5-020717 QAMSD (Dry) (FTBL-SB-01-0-0.5-020717 QA)	ANTIMONY COPPER	31.4 -82.9	26.7 -177	72.00-125.00 84.00-119.00	47.5 (20.00) -	ANTIMONY COPPER	J(all detects) Sb, PS in, Qual RPD only
FTBL-SB-01-0-0.5-020717 QAMSD (Dry) (FTBL-SB-01-0-0.5-020717 QA)	ARSENIC BERYLLIUM NICKEL ZINC	- - - -	- - - 79.9	82.00-118.00 80.00-120.00 84.00-119.00 82.00-119.00	44.4 (20.00) 40 (20.00) 36.3 (20.00) -	ARSENIC BERYLLIUM NICKEL ZINC	J(all detects) UJ(all non-detects) Zn, PS in, No Qual

Project Name and Number: - USACE Project: Castner Firing Range; Ft Bliss, TX

Lab Duplicate Outlier Report

Lab Reporting Batch ID: FA41143 **Laboratory: ACTO**

EDD Filename: FA41143-SEDD_2a_1 **eQAPP Name: Arcadis_FtBliss_ALS_170316**

Method: 6010C
Matrix: Soil

QC Sample ID (Associated Sample ID)	*Analyte*	*Sample RPD*	*eQAPP RPD*	*Flag*
FTBL-SB-01-0-0.5-020717 QADUP (Dry) (FTBL-SB-01-0-0.5-020717 QA)	COPPER	72.7	20.00	J (all detects) UJ (all non-detects)

Project Name and Number: - USACE Project: Castner Firing Range; Ft Bliss, TX

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: FA41143 **Laboratory: ACTO**

EDD Filename: FA41143-SEDD_2a_1 **eQAPP Name: Arcadis_FtBliss_ALS_170316**

Method: **8330B**
Matrix: **Soil**

QC Sample ID (Associated Samples)	*Compound*	*LCS %R*	*LCSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
OP63860-BS OP63860-PT1 (FTBL-SB-01-0-0.5-020717 QA)	Tetryl	138	-	68.00-135.00	-	Tetryl	J (all detects) UJ (all non-detects)

Project Name and Number: - USACE Project: Castner Firing Range; Ft Bliss, TX

Reporting Limit Outliers

Lab Reporting Batch ID: FA41143 **Laboratory: ACTO**

EDD Filename: FA41143-SEDD_2a_1 **eQAPP Name: Arcadis_FtBliss_ALS_170316**

Method: **6010C**

Matrix: **Soil**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
FTBL-SB-01-0-0.5-020717 QA	ANTIMONY	J	0.65	4.3	LOQ	mg/Kg	J (all detects)
	BERYLLIUM	J	0.80	1.1	LOQ	mg/Kg	
	NICKEL	J	7.5	8.6	LOQ	mg/Kg	

Project Name and Number: - USACE Project: Castner Firing Range; Ft Bliss, TX

LDC #: 38178D4b
SDG #: FA41143
Laboratory: Accutest

VALIDATION COMPLETENESS WORKSHEET
ADR

Date: 3/3/17
Page: 1 of 1
Reviewer: (b) (6)
2nd Reviewer: (b) (6)

METHOD: Metals (EPA SW 846 Method 6010C)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A /N	
II.	Instrument Calibration	A	
III.	ICP Interference Check Sample (ICS) Analysis	A	
IV.	Laboratory Blanks	A	ICB/CCB only
V.	Field Blanks	N	
VI.	Matrix Spike/Matrix Spike Duplicates	N	2/3: Sb, Zn PS in, no qual (Cu, Pb, PS out, qual MS/MSD
VII.	Duplicate sample analysis	N	
VIII.	Serial Dilution	A	
IX.	Laboratory control samples	N	(from K1701351)
X.	Field Duplicates	SW	Cl, FTBL-SB-01-0-0.5-020717)
XI.	Sample Result Verification	N	
XII	Overall Assessment of Data	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	FTBL-SB-01-0-0.5-020717 QA	FA41143-1	Soil	02/07/17
2	FTBL-SB-01-0-0.5-020717 QAMS	FA41143-1MS	Soil	02/07/17
3	FTBL-SB-01-0-0.5-020717 QAMSD	FA41143-1MSD	Soil	02/07/17
4	FTBL-SB-01-0-0.5-020717 QADUP	FA41143-1DUP	Soil	02/07/17
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				

Notes:

LDC #: 38178045

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Reviewer: (b)
2nd reviewer: (b)

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
FB-24		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
Analysis Method		
ICP		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
ICP-MS		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ___ ___

Comments: Mercury by CVAA if performed

LDC#: 38178D4a

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: (b)
2nd Reviewer: (b) (6)

METHOD: Metals (EPA Method 6010B/7000)

Analyte	Concentration (mg/Kg)		RPD (≤50)	Qualifiers (Parent Only)
	FTBL-SB-01-0-0.5-020717	1		
Antimony	0.295	0.65	75	NQ
Arsenic	5.48	5.0	9	
Beryllium	0.898	0.80	12	
Copper	20.9	42.0	67	Jdet/A
Lead	50.3	50.4	0	
Nickel	8.88	7.5	17	
Zinc	57.4	47.1	20	

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NQ = no qualifier because one or both results are <LOQ

LDC #: 38178D40
SDG #: FA41143
Laboratory: Accutest

VALIDATION COMPLETENESS WORKSHEET
ADR

Date: 3/6/17
Page: 1 of 1
Reviewer: (b) (6)
2nd Reviewer:

METHOD: HPLC Explosives (EPA SW 846 Method 8330B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A	
II.	Initial calibration/ICV	A/A	RSD ≤ 15%, r^2 ICV ≤ 20%
III.	Continuing calibration	A	CCV ≤ 20%
IV.	Laboratory Blanks	N	
V.	Field blanks	N	
VI.	Surrogate spikes	N	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	N	
IX.	Field duplicates	MN	SD = 1 + ? FTBL-SB-01-0-0.5-020717(K)70/351 (<5xRL)
X.	Compound quantitation RL/LOQ/LODs	N	
XI.	Target compound identification	N	
XII.	Overall assessment of data	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	FTBL-SB-01-0-0.5-020717 QA	FA41143-1	Soil	02/07/17
2	FTBL-SB-01-0-0.5-020717 QAMS	FA41143-1MS	Soil	02/07/17
3	FTBL-SB-01-0-0.5-020717 QAMSD	FA41143-1MSD	Soil	02/07/17
4				
5				
6				
7				
8				
9				
10				
11				

Notes:

LDC#: 38178040

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer: (b) (6)
2nd Reviewer: (b) (6)

METHOD: HPLC Explosives (EPA SW 846 Method 8330B)

Compound	Concentration (mg/kg)		RPD (≤ 20)
	FTBL-SB-01-0-0.5-020717 (QA)	FTBL-SB-01-0-0.5-020717	
Nitrobenzene ~~Nitrobenzene~~	0.075U	0.010	153 (NQ < 5XRL)

V:\FIELD DUPLICATES\38389A40.wpd

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March 31, 2017

Analytical Report for Service Request No: K1701351

(b) (6)
ARCADIS U.S., Inc.
401 East Main Street
Suite 400
El Paso, TX 79901

RE: Castner Range / 06261038.0001.00400

(b) (6)

Enclosed are the results of the sample(s) submitted to our laboratory February 10, 2017
For your reference, these analyses have been assigned our service request number **K1701351.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is (b) (6) You may also contact me via email at (b) (6)

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

(b) (6)

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- Total Solids
- Metals
- Nitroaromatics and Nitramines (Explosives)

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEC UST	http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L14-51
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	Not available	-
ISO 17025	http://www.pjlabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	03016
Maine DHS	Not available	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Montana DPHHS	http://www.dphhs.mt.gov/publichealth/	CERT0047
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/oqa/	WA005
North Carolina DWQ	http://www.dwqlab.org/	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/envserv/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	http://www.epa.gov/region8/water/dwhome/wyomingdi.html	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.
Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Case Narrative

ALS Environmental—Kelso Laboratory
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ALS ENVIRONMENTAL

Client:	ARCADIS U.S., Inc.	**Service Request No.:**	K1701351
Project:	Castner Range / 06261038.0001.00400	**Date Received:**	02/10/2017
Sample Matrix:	Soil & Water		

Case Narrative

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Three water and fifteen soil samples were received for analysis at ALS Environmental on 02/10/2017. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4ºC upon receipt at the laboratory.

Total Metals-Soil

Matrix Spike Recovery Exceptions:
Antimony recoveries are generally low for soil and sediment samples when digested using EPA Method 3050B. Despite anticipated low recoveries, the method is still generally prescribed because of its versatility for general metals analysis. Antimony results (in conjunction with the matrix spike recovery) from this procedure should only be used as indicators to estimate concentrations. The matrix spike and matrix spike duplicate recoveries of Antimony for sampleFD-020717 was below the ALS control criterion. Since low recoveries resulted from a method defect and were possibly magnified by certain matrix components, no corrective action was appropriate. Alternative procedures that specifically target Antimony are available but were not specified for this project. The associated QA/QC results (e.g. control sample, calibration standards, etc.) indicated the analysis was in control.

No other anomalies associated with the analysis of these samples were observed.

Explosives by EPA Method 8330

Sample Notes and Discussion:
Insufficient sample volume was received to perform a Matrix Spike/Matrix Spike Duplicate (MS/MSD) in sample preparation group KWG1701217. A Laboratory Control Sample/Duplicate Laboratory Control Sample (LCS/DLCS) was analyzed and reported in lieu of the MS/MSD for these samples.

Manual integration of one or more chromatographic peaks was required to correct the integration performed by the automated data processing program. The manual integration was performed in accordance with ALS policy, which is consistent with the National Environmental Laboratory Accreditation Program (NELAP), Department of Defense (DOD), and other certifying agencies. The analytes that required manual integrations are identified on each sample report contained in this data package.

(b) (6)

Lab Control Sample Exceptions:
The upper control criterion was exceeded for a few analytes in Standard Reference Material KWG1701417-5. The analytes in question were not detected in the associated field samples above the method reporting limit (MRL). The error associated with elevated recovery indicated a high bias. The sample data was not significantly affected. No further corrective action was appropriate.

No other anomalies associated with the analysis of these samples were observed.

6850 ClO4

Internal Standard Exceptions:
The internal standard recovery of Sodium Perchlorate-18O4 in Interference Check Sample (ICS) KQ1701598-05 was outside control criteria because of suspected matrix interference. The ICS and all associated samples were re-analyzed with a new analytical column, but the re-analysis produced similar results. The associated spike recovery of Perchlorate was in control, which indicated the analysis of the ICS was in control. The internal standard recoveries for all other associated field and QC samples were in control, which indicated the issue was restricted to the ICS and that the analytical batch was in control. The quality of the sample data was not affected. No further corrective action was necessary.

No other anomalies associated with the analysis of these samples were observed.

(b) (6)

Chain of Custody

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ARCADIS
Infrastructure, environment, buildings

ID#:

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Page 1 of 2

Lab Work Order #: 17013S1

(b) (6) [redacted]

Send Results To

Address: 401 East Main, Suite 4

(b) (6) [redacted]

City: El Paso State: TX Zip: 79901

Project Name/Location (City, State): [redacted]

Project #: 06261038.0001.00400

(b) (6) [redacted]

Sample ID	Collection Date	Collection Time	Type (✓) Comp	Type (✓) Grab	Matrix	Explosives	TAL metals (Ag, As, Ba, Cd, Cr, Pb, Hg, Se)	Perchlorate	SPLP metals (Ag, As, Ba, Cd, Cr, Pb, Hg, Se)					REMARKS
Preservative														
Filtered (✓)														
# of Containers														
Container Information														
FD-020717	2.7.17	1200		X	S	X	X							
FD-020817	2.8.17	1200		X	S	X	X							
PTBL-SB-02-0-0.5-020817	2.8.17	0815		X	S	X	X		X					
PTBL-SB-02-0.5-2-020817	2.8.17	0830		X	S	X	X		X					
PTBL-SB02-4-6.5-020817	2.8.17	0920		X	S	X	X		X					
PTBL-SB-01D-0-0.5-020717	2.7.17	1405		X	S	X	X		X					
PTBL-SB-01D-0.5-2-020717	2.7.17	1410		X	S	X	X		X					
PTBL-SB-01D-4-6-020717	2.7.17	1500		X	S	X	X		X					
PTBL-SB-01-0-0.5-020717	2.7.17	0955		X	S	X	X		X					
PTBL-SB-01-0.5-2-020717	2.7.17	1000		X	S	X	X		X					
PTBL-SB-01-4-6-020717	2.7.17	1045		X	S	X	X		X					
PTBL-SB-03-0-0.5-020817	2.8.17	1345		X	S	X	X	X	X					
PTBL-SB-03-6-8-020817	2.8.17	1445		X	S	X	X	X	X					
PTBL-SB-03-10-12-020817	2.8.17	1520		X	S	X	X	X	X					HOLD ALL ANALYSIS

Keys

Preservation Key: A. H_2SO_4 B. HCL C. HNO_3 D. NaOH E. None F. Other: _____ G. Other: _____ H. Other: _____

Container Information Key: 1. 40 ml Vial 2. 1 L Amber 3. 250 ml Plastic 4. 500 ml Plastic 5. Encore 6. 2 oz. Glass 7. 4 oz. Glass 8. 8 oz. Glass 9. Other: _____ 10. Other: _____

Matrix Key: SO - Soil, W - Water, T - Tissue, SE - Sediment, SL - Sludge, A - Air, NL - NAPL/Oil, SW - Sample Wipe, Other: _____

Special Instructions/Comments:

SPLP metals - hold all for total Results.

☐ Special QA/QC Instructions(✓):

Laboratory Information and Receipt		Relinquished By	Laboratory Received By
Lab Name:	Cooler Custody Seal (✓)	(b) (6) [redacted] Printed Name:	Printed Name:
☐ Cooler packed with ice (✓)	☐ Intact ☐ Not intact	Signature:	Signature:
Specify Turnaround Requirements:	Sample Receipt:	Firm:	Firm:
Shipping Tracking #:	Condition/Cooler Temp: _____	Date/Time: 2/9/17 1800	Date/Time: 2/9/17 1800
		Date/Time:	Date/Time:

20730826 CofC AR Form 01.12.2007

Distribution: WHITE – Laboratory returns with results; YELLOW – Lab copy; PINK – Retained by ARCADIS

ARCADIS
Infrastructure, environment, buildings

ID#:

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Page 2 of 2

Lab Work Order #: 17013521

Send Report To: (b) (6)

Address: 401 E. Main St, Ste 400

City: El Paso State: TX Zip: 79901

Project Name/Location (City, State): Cooper Range

Project #: 06261038.0001.00400

(b) (6)

(b) (6)

Sample ID	Collection Date	Collection Time	Type (✓) Comp	Type (✓) Grab	Matrix	Explosives	T-metals (sb,As,Be,Cr,Pb,Ni,Se,Ag,Tl)	Perchlorate	SPLP metals (total)
PTBL-5803-28-30-020917	2.9.17	0930		X	S	X	X	X	X
EB-020717	2.7.17	0800		X	W	X	X		
EB-020817	2.8.17	1700		X	W	X	X		
EB-020917	2.9.17	1700		X	W	X	X		

Preservative

Filtered (✓)

# of Containers

Container Information

PARAMETER ANALYSIS & METHOD

Keys

Preservation Key:
A. H_2SO_4
B. HCL
C. HNO_3
D. NaOH
E. None
F. Other: _____
G. Other: _____
H. Other: _____

Container Information Key:
1. 40 ml Vial
2. 1 L Amber
3. 250 ml Plastic
4. 500 ml Plastic
5. Encore
6. 2 oz. Glass
7. 4 oz. Glass
8. 8 oz. Glass
9. Other: _____
10. Other: _____

Matrix Key:
SO - Soil
SE - Sediment
NL - NAPL/Oil
W - Water
SL - Sludge
SW - Sample Wipe
T - Tissue
A - Air
Other: _____

REMARKS

Special Instructions/Comments:
SPLP Metals - hold all for total Results

☐ Special QA/QC Instructions(✓):

Laboratory Information and Receipt		Relinquished By	Received By	Relinquished By	Laboratory Received By
Lab Name:	Cooler Custody Seal (✓)	(b) (6)		Printed Name:	Printed Name:
☐ Cooler packed with ice (✓)	☐ Intact ☐ Not Intact			Signature:	Signature:
Specify Turnaround Requirements:	Sample Receipt:	ARCADIS	ALS	Company:	Firm:
Shipping Tracking #:	Condition/Cooler Temp: _____	Date/Time: 2/9/17 1800	Date/Time: 2/10/17 1000	Date/Time:	Date/Time:

20130826 CofC AR Form 01.12.2007

Distribution: WHITE – Laboratory returns with results YELLOW – Lab copy PINK – Retained by ARCADIS

(b) (6) [redacted]

Cooler Receipt and Preservation Form

Client Arcadis Service Request K17 01351

Received: 2/10/17 Opened: 2/10/17 By: (b) (6) Unloaded: 2/10/17 By: (b)

1. Samples were received via? *USPS* (*Fed Ex*) *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) (*Cooler*) *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA (Y) N If yes, how many and where? 1 front
   If present, were custody seals intact? (Y) N If present, were they signed and dated? (Y) N

Raw Cooler Temp	Corrected Cooler Temp	Raw Temp Blank	Corrected Temp Blank	Corr. Factor	Thermometer ID	Cooler/COC ID NA	Tracking Number NA	Filed
-0.5	-0.3	0.7	0.9	+0.2	325	1 of 3	7855 6446 7747	
-0.3	-0.3	0.3	0.3	0.0	298	2 of 3	7855 6446 7769	
-0.6	-0.6	0.6	0.6	0.0	366	3 of 3	7855 6446 7758	

4. Packing material: *Inserts* *Baggies* (*Bubble Wrap*) *Gel Packs* (*Wet Ice*) *Dry Ice* *Sleeves* _____
5. Were custody papers properly filled out (ink, signed, etc.)? NA (Y) N
6. Were samples received in good condition (temperature, unbroken)? *Indicate in the table below.* NA (Y) N
   If applicable, tissue samples were received: ***Frozen*** ***Partially Thawed*** ***Thawed*** (b) (6) [redacted]
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA (Y) N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA (Y) N
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA (Y) N
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* (NA) Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* (NA) Y N
12. Was C12/Res negative? (NA) Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time
									(b) (6) [redacted]	
						SHORT HOLD TIME				

Notes, Discrepancies, & Resolutions: Did not receive sample ETBL-SB-01A-0.0.5-020717 @14:05. (b) (6)

7/25/16 *Page* ____ *of* ____

Total Solids

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/8/17
Sample Matrix:	Soil	**Date Received:**	02/10/17
Analysis Method:	160.3 Modified	**Units:**	Percent
Prep Method:	None	**Basis:**	As Received

Solids, Total

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
FTBL-SB-03-0-0.5-020817	K1701351-012	**95.8**	-	1	02/15/17 17:06	
FTBL-SB-03-6-8-020817	K1701351-013	**97.2**	-	1	02/15/17 17:06	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project	Castner Range/06261038.0001.00400	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Analysis Method:	160.3 Modified	**Units:**	Percent
Prep Method:	None	**Basis:**	As Received

Replicate Sample Summary
Inorganic Parameters

Sample Name:	Lab Code:	MRL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
Batch QC	K1701419-001DUP	-	96.5	96.2	96.4	<1	20	02/15/17
Batch QC	K1701534-002DUP	-	88.2	90.3	89.3	2	20	02/15/17

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/07/17 - 02/09/17
Sample Matrix:	Soil	**Date Received:**	02/10/17
Analysis Method:	160.3 Modified	**Units:**	Percent
Prep Method:	None	**Basis:**	Air Dried

Solids, Total

Sample Name	Lab Code	Result	MRL	MDL	Dil.	Date Analyzed	Q
FD-020717	K1701351-001	**99.1**	-	-	1	02/21/17 15:01	
FD-020817	K1701351-002	**99.0**	-	-	1	02/21/17 15:01	
FTBL-SB-02-0-0.5-020817	K1701351-003	**99.1**	-	-	1	02/21/17 15:01	
FTBL-SB-02-0.5-2-020817	K1701351-004	**98.7**	-	-	1	02/21/17 15:01	
FTBL-SB-02-4-5.5-020817	K1701351-005	**98.6**	-	-	1	02/21/17 15:01	
FTBL-SB-01D-0-0.5-020717	K1701351-006	**99.1**	-	-	1	02/21/17 15:01	
FTBL-SB-01D-0.5-2-020717	K1701351-007	**98.7**	-	-	1	02/21/17 15:01	
FTBL-SB-01D-4-6-020717	K1701351-008	**98.9**	-	-	1	02/21/17 15:01	
FTBL-SB-01-0-0.5-020717	K1701351-009	**99.1**	-	-	1	02/21/17 15:01	
FTBL-SB-01-0.5-2-020717	K1701351-010	**99.1**	-	-	1	02/21/17 15:01	
FTBL-SB-01-4-6-020717	K1701351-011	**99.0**	-	-	1	02/21/17 15:01	
FTBL-SB-03-0-0.5-020817	K1701351-012	**99.3**	-	-	1	02/21/17 15:01	
FTBL-SB-03-6-8-020817	K1701351-013	**98.8**	-	-	1	02/21/17 15:01	
FTBL-SB03-28-30-020917	K1701351-015	**97.7**	-	-	1	02/21/17 15:01	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project	Castner Range/06261038.0001.00400	**Date Collected:**	02/07/17 - 02/08/17
Sample Matrix:	Soil	**Date Received:**	02/10/17
Analysis Method:	160.3 Modified	**Units:**	Percent
Prep Method:	None	**Basis:**	Air Dried

Replicate Sample Summary
Inorganic Parameters

Sample Name:	Lab Code:	MRL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
FD-020817	K1701351-002DUP	-	99.0	99.0	99.0	<1	10	02/21/17
FTBL-SB-03-0-0.5-020817	K1701351-012DUP	-	99.3	99.3	99.3	<1	10	02/21/17

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Metals

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/07/17 12:00
Sample Matrix:	Soil	**Date Received:**	02/10/17 10:00
Sample Name:	FD-020717	**Basis:**	Dry, Air Dried
Lab Code:	K1701351-001		

Total Metals

Analyte Name	Analysis Method	Result	Units	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony	6020A	**0.242**	mg/Kg	0.049	0.024	0.010	5	02/24/17 11:59	02/17/17	
Arsenic	6020A	**4.88**	mg/Kg	0.49	0.12	0.04	5	02/24/17 11:59	02/17/17	
Beryllium	6020A	**0.988**	mg/Kg	0.020	0.020	0.005	5	02/24/17 11:59	02/17/17	
Copper	6020A	**14.6**	mg/Kg	0.098	0.098	0.039	5	02/24/17 11:59	02/17/17	
Lead	6020A	**31.8**	mg/Kg	0.049	0.049	0.020	5	02/24/17 11:59	02/17/17	
Nickel	6020A	**7.90**	mg/Kg	0.20	0.10	0.03	5	02/24/17 11:59	02/17/17	
Zinc	6020A	**42.8**	mg/Kg	0.49	0.49	0.20	5	02/24/17 11:59	02/17/17	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/07/17 12:00
Sample Matrix:	Soil	**Date Received:**	02/10/17 10:00
Sample Name:	FD-020817	**Basis:**	Dry, Air Dried
Lab Code:	K1701351-002		

Total Metals

Analyte Name	Analysis Method	Result	Units	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony	6020A	**5.33**	mg/Kg	0.048	0.024	0.010	5	02/24/17 12:15	02/17/17	
Arsenic	6020A	**6.44**	mg/Kg	0.48	0.12	0.04	5	02/24/17 12:15	02/17/17	
Beryllium	6020A	**1.34**	mg/Kg	0.019	0.019	0.005	5	02/24/17 12:15	02/17/17	
Copper	6020A	**60.2**	mg/Kg	0.097	0.097	0.039	5	02/24/17 12:15	02/17/17	
Lead	6020A	**476**	mg/Kg	0.048	0.048	0.019	5	02/24/17 12:15	02/17/17	
Nickel	6020A	**6.85**	mg/Kg	0.19	0.10	0.03	5	02/24/17 12:15	02/17/17	
Zinc	6020A	**66.1**	mg/Kg	0.48	0.48	0.19	5	02/24/17 12:15	02/17/17	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/08/17 08:15
Sample Matrix:	Soil	**Date Received:**	02/10/17 10:00
Sample Name:	FTBL-SB-02-0-0.5-020817	**Basis:**	Dry, Air Dried
Lab Code:	K1701351-003		

Total Metals

Analyte Name	Analysis Method	Result	Units	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony	6020A	**6.26**	mg/Kg	0.049	0.025	0.010	5	02/24/17 12:19	02/17/17	
Arsenic	6020A	**3.77**	mg/Kg	0.49	0.12	0.04	5	02/24/17 12:19	02/17/17	
Beryllium	6020A	**1.09**	mg/Kg	0.020	0.020	0.005	5	02/24/17 12:19	02/17/17	
Copper	6020A	**37.2**	mg/Kg	0.098	0.098	0.039	5	02/24/17 12:19	02/17/17	
Lead	6020A	**417**	mg/Kg	0.049	0.049	0.020	5	02/24/17 12:19	02/17/17	
Nickel	6020A	**5.63**	mg/Kg	0.20	0.10	0.03	5	02/24/17 12:19	02/17/17	
Zinc	6020A	**55.5**	mg/Kg	0.49	0.49	0.20	5	02/24/17 12:19	02/17/17	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/08/17 08:30
Sample Matrix:	Soil	**Date Received:**	02/10/17 10:00
Sample Name:	FTBL-SB-02-0.5-2-020817	**Basis:**	Dry, Air Dried
Lab Code:	K1701351-004		

Total Metals

Analyte Name	Analysis Method	Result	Units	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony	6020A	**1.01**	mg/Kg	0.049	0.025	0.010	5	02/24/17 12:22	02/17/17	
Arsenic	6020A	**5.99**	mg/Kg	0.49	0.12	0.04	5	02/24/17 12:22	02/17/17	
Beryllium	6020A	**1.46**	mg/Kg	0.020	0.020	0.005	5	02/24/17 12:22	02/17/17	
Copper	6020A	**13.5**	mg/Kg	0.098	0.098	0.039	5	02/24/17 12:22	02/17/17	
Lead	6020A	**41.2**	mg/Kg	0.049	0.049	0.020	5	02/24/17 12:22	02/17/17	
Nickel	6020A	**8.82**	mg/Kg	0.20	0.10	0.03	5	02/24/17 12:22	02/17/17	
Zinc	6020A	**39.7**	mg/Kg	0.49	0.49	0.20	5	02/24/17 12:22	02/17/17	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/08/17 09:20
Sample Matrix:	Soil	**Date Received:**	02/10/17 10:00
Sample Name:	FTBL-SB-02-4-5.5-020817	**Basis:**	Dry, Air Dried
Lab Code:	K1701351-005		

Total Metals

Analyte Name	Analysis Method	Result	Units	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony	6020A	**0.371**	mg/Kg	0.048	0.024	0.010	5	02/24/17 12:32	02/17/17	
Arsenic	6020A	**5.18**	mg/Kg	0.48	0.12	0.04	5	02/24/17 12:32	02/17/17	
Beryllium	6020A	**1.53**	mg/Kg	0.019	0.019	0.005	5	02/24/17 12:32	02/17/17	
Copper	6020A	**14.5**	mg/Kg	0.095	0.095	0.038	5	02/24/17 12:32	02/17/17	
Lead	6020A	**22.0**	mg/Kg	0.048	0.048	0.019	5	02/24/17 12:32	02/17/17	
Nickel	6020A	**9.58**	mg/Kg	0.19	0.10	0.03	5	02/24/17 12:32	02/17/17	
Zinc	6020A	**52.6**	mg/Kg	0.48	0.48	0.19	5	02/24/17 12:32	02/17/17	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/07/17 14:05
Sample Matrix:	Soil	**Date Received:**	02/10/17 10:00
Sample Name:	FTBL-SB-01D-0-0.5-020717	**Basis:**	Dry, Air Dried
Lab Code:	K1701351-006		

Total Metals

Analyte Name	Analysis Method	Result	Units	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony	6020A	**0.326**	mg/Kg	0.048	0.024	0.010	5	02/24/17 12:35	02/17/17	
Arsenic	6020A	**6.46**	mg/Kg	0.48	0.12	0.04	5	02/24/17 12:35	02/17/17	
Beryllium	6020A	**1.05**	mg/Kg	0.019	0.019	0.005	5	02/24/17 12:35	02/17/17	
Copper	6020A	**21.5**	mg/Kg	0.095	0.095	0.038	5	02/24/17 12:35	02/17/17	
Lead	6020A	**38.2**	mg/Kg	0.048	0.048	0.019	5	02/24/17 12:35	02/17/17	
Nickel	6020A	**8.92**	mg/Kg	0.19	0.10	0.03	5	02/24/17 12:35	02/17/17	
Zinc	6020A	**51.6**	mg/Kg	0.48	0.48	0.19	5	02/24/17 12:35	02/17/17	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/07/17 14:10
Sample Matrix:	Soil	**Date Received:**	02/10/17 10:00
Sample Name:	FTBL-SB-01D-0.5-2-020717	**Basis:**	Dry, Air Dried
Lab Code:	K1701351-007		

Total Metals

Analyte Name	Analysis Method	Result	Units	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony	6020A	**0.292**	mg/Kg	0.049	0.024	0.010	5	02/24/17 12:39	02/17/17	
Arsenic	6020A	**6.30**	mg/Kg	0.49	0.12	0.04	5	02/24/17 12:39	02/17/17	
Beryllium	6020A	**1.03**	mg/Kg	0.020	0.020	0.005	5	02/24/17 12:39	02/17/17	
Copper	6020A	**16.8**	mg/Kg	0.098	0.098	0.039	5	02/24/17 12:39	02/17/17	
Lead	6020A	**28.5**	mg/Kg	0.049	0.049	0.020	5	02/24/17 12:39	02/17/17	
Nickel	6020A	**10.1**	mg/Kg	0.20	0.10	0.03	5	02/24/17 12:39	02/17/17	
Zinc	6020A	**90.4**	mg/Kg	0.49	0.49	0.20	5	02/24/17 12:39	02/17/17	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/07/17 15:00
Sample Matrix:	Soil	**Date Received:**	02/10/17 10:00
Sample Name:	FTBL-SB-01D-4-6-020717	**Basis:**	Dry, Air Dried
Lab Code:	K1701351-008		

Total Metals

Analyte Name	Analysis Method	Result	Units	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony	6020A	**0.183**	mg/Kg	0.048	0.024	0.010	5	02/24/17 12:42	02/17/17	
Arsenic	6020A	**5.35**	mg/Kg	0.48	0.12	0.04	5	02/24/17 12:42	02/17/17	
Beryllium	6020A	**1.33**	mg/Kg	0.019	0.019	0.005	5	02/24/17 12:42	02/17/17	
Copper	6020A	**12.7**	mg/Kg	0.096	0.096	0.038	5	02/24/17 12:42	02/17/17	
Lead	6020A	**18.6**	mg/Kg	0.048	0.048	0.019	5	02/24/17 12:42	02/17/17	
Nickel	6020A	**13.1**	mg/Kg	0.19	0.10	0.03	5	02/24/17 12:42	02/17/17	
Zinc	6020A	**62.3**	mg/Kg	0.48	0.48	0.19	5	02/24/17 12:42	02/17/17	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/07/17 09:55
Sample Matrix:	Soil	**Date Received:**	02/10/17 10:00
Sample Name:	FTBL-SB-01-0-0.5-020717	**Basis:**	Dry, Air Dried
Lab Code:	K1701351-009		

Total Metals

Analyte Name	Analysis Method	Result	Units	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony	6020A	**0.295**	mg/Kg	0.048	0.024	0.010	5	02/24/17 12:45	02/17/17	
Arsenic	6020A	**5.48**	mg/Kg	0.48	0.12	0.04	5	02/24/17 12:45	02/17/17	
Beryllium	6020A	**0.898**	mg/Kg	0.019	0.019	0.005	5	02/24/17 12:45	02/17/17	
Copper	6020A	**20.9**	mg/Kg	0.097	0.097	0.039	5	02/24/17 12:45	02/17/17	
Lead	6020A	**50.3**	mg/Kg	0.048	0.048	0.019	5	02/24/17 12:45	02/17/17	
Nickel	6020A	**8.88**	mg/Kg	0.19	0.10	0.03	5	02/24/17 12:45	02/17/17	
Zinc	6020A	**57.4**	mg/Kg	0.48	0.48	0.19	5	02/24/17 12:45	02/17/17	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/07/17 10:00
Sample Matrix:	Soil	**Date Received:**	02/10/17 10:00
Sample Name:	FTBL-SB-01-0.5-2-020717	**Basis:**	Dry, Air Dried
Lab Code:	K1701351-010		

Total Metals

Analyte Name	Analysis Method	Result	Units	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony	6020A	**0.257**	mg/Kg	0.050	0.025	0.010	5	02/24/17 12:49	02/17/17	
Arsenic	6020A	**5.44**	mg/Kg	0.50	0.13	0.04	5	02/24/17 12:49	02/17/17	
Beryllium	6020A	**0.932**	mg/Kg	0.020	0.020	0.005	5	02/24/17 12:49	02/17/17	
Copper	6020A	**15.3**	mg/Kg	0.10	0.10	0.04	5	02/24/17 12:49	02/17/17	
Lead	6020A	**33.3**	mg/Kg	0.050	0.050	0.020	5	02/24/17 12:49	02/17/17	
Nickel	6020A	**8.00**	mg/Kg	0.20	0.10	0.03	5	02/24/17 12:49	02/17/17	
Zinc	6020A	**45.8**	mg/Kg	0.50	0.50	0.20	5	02/24/17 12:49	02/17/17	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/07/17 10:45
Sample Matrix:	Soil	**Date Received:**	02/10/17 10:00
Sample Name:	FTBL-SB-01-4-6-020717	**Basis:**	Dry, Air Dried
Lab Code:	K1701351-011		

Total Metals

Analyte Name	Analysis Method	Result	Units	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony	6020A	**0.141**	mg/Kg	0.050	0.025	0.010	5	02/24/17 12:52	02/17/17	
Arsenic	6020A	**3.75**	mg/Kg	0.50	0.13	0.04	5	02/24/17 12:52	02/17/17	
Beryllium	6020A	**1.04**	mg/Kg	0.020	0.020	0.005	5	02/24/17 12:52	02/17/17	
Copper	6020A	**10.4**	mg/Kg	0.10	0.10	0.04	5	02/24/17 12:52	02/17/17	
Lead	6020A	**13.0**	mg/Kg	0.050	0.050	0.020	5	02/24/17 12:52	02/17/17	
Nickel	6020A	**8.85**	mg/Kg	0.20	0.10	0.03	5	02/24/17 12:52	02/17/17	
Zinc	6020A	**41.9**	mg/Kg	0.50	0.50	0.20	5	02/24/17 12:52	02/17/17	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/08/17 13:45
Sample Matrix:	Soil	**Date Received:**	02/10/17 10:00
Sample Name:	FTBL-SB-03-0-0.5-020817	**Basis:**	Dry, Air Dried
Lab Code:	K1701351-012		

Total Metals

Analyte Name	Analysis Method	Result	Units	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony	6020A	**0.791**	mg/Kg	0.048	0.024	0.010	5	02/24/17 12:55	02/17/17	
Arsenic	6020A	**3.78**	mg/Kg	0.48	0.12	0.04	5	02/24/17 12:55	02/17/17	
Beryllium	6020A	**3.81**	mg/Kg	0.019	0.019	0.005	5	02/24/17 12:55	02/17/17	
Copper	6020A	**8.18**	mg/Kg	0.096	0.096	0.039	5	02/24/17 12:55	02/17/17	
Lead	6020A	**187**	mg/Kg	0.048	0.048	0.019	5	02/24/17 12:55	02/17/17	
Nickel	6020A	**2.69**	mg/Kg	0.19	0.10	0.03	5	02/24/17 12:55	02/17/17	
Zinc	6020A	**66.9**	mg/Kg	0.48	0.48	0.19	5	02/24/17 12:55	02/17/17	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/08/17 14:45
Sample Matrix:	Soil	**Date Received:**	02/10/17 10:00
Sample Name:	FTBL-SB-03-6-8-020817	**Basis:**	Dry, Air Dried
Lab Code:	K1701351-013		

Total Metals

Analyte Name	Analysis Method	Result	Units	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony	6020A	**0.103**	mg/Kg	0.049	0.025	0.010	5	02/24/17 12:59	02/17/17	
Arsenic	6020A	**4.51**	mg/Kg	0.49	0.12	0.04	5	02/24/17 12:59	02/17/17	
Beryllium	6020A	**2.89**	mg/Kg	0.020	0.020	0.005	5	02/24/17 12:59	02/17/17	
Copper	6020A	**9.23**	mg/Kg	0.098	0.098	0.039	5	02/24/17 12:59	02/17/17	
Lead	6020A	**13.1**	mg/Kg	0.049	0.049	0.020	5	02/24/17 12:59	02/17/17	
Nickel	6020A	**4.57**	mg/Kg	0.20	0.10	0.03	5	02/24/17 12:59	02/17/17	
Zinc	6020A	**46.0**	mg/Kg	0.49	0.49	0.20	5	02/24/17 12:59	02/17/17	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/09/17 09:30
Sample Matrix:	Soil	**Date Received:**	02/10/17 10:00
Sample Name:	FTBL-SB03-28-30-020917	**Basis:**	Dry, Air Dried
Lab Code:	K1701351-015		

Total Metals

Analyte Name	Analysis Method	Result	Units	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony	6020A	**0.095**	mg/Kg	0.049	0.024	0.010	5	02/24/17 13:02	02/17/17	
Arsenic	6020A	**4.64**	mg/Kg	0.49	0.12	0.04	5	02/24/17 13:02	02/17/17	
Beryllium	6020A	**3.43**	mg/Kg	0.020	0.020	0.005	5	02/24/17 13:02	02/17/17	
Copper	6020A	**5.50**	mg/Kg	0.098	0.098	0.039	5	02/24/17 13:02	02/17/17	
Lead	6020A	**15.0**	mg/Kg	0.049	0.049	0.020	5	02/24/17 13:02	02/17/17	
Nickel	6020A	**4.42**	mg/Kg	0.20	0.10	0.03	5	02/24/17 13:02	02/17/17	
Zinc	6020A	**85.4**	mg/Kg	0.49	0.49	0.20	5	02/24/17 13:02	02/17/17	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/07/17 08:00
Sample Matrix:	Water	**Date Received:**	02/10/17 10:00
Sample Name:	EB-020717	**Basis:**	NA
Lab Code:	K1701351-016		

Total Metals

Analyte Name	Analysis Method	Result	Units	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony	6020A	**0.351**	ug/L	0.050	0.013	0.006	1	02/27/17 07:06	02/17/17	
Arsenic	6020A	ND U	ug/L	0.50	0.50	0.20	1	02/27/17 07:06	02/17/17	
Beryllium	6020A	ND U	ug/L	0.020	0.020	0.006	1	02/27/17 07:06	02/17/17	
Copper	6020A	**0.31**	ug/L	0.10	0.05	0.02	1	02/27/17 07:06	02/17/17	
Lead	6020A	**0.196**	ug/L	0.020	0.010	0.004	1	02/27/17 07:06	02/17/17	
Nickel	6020A	**0.09 J**	ug/L	0.20	0.05	0.02	1	02/27/17 07:06	02/17/17	
Zinc	6020A	**0.97**	ug/L	0.50	0.50	0.20	1	02/27/17 07:06	02/17/17	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/08/17 17:00
Sample Matrix:	Water	**Date Received:**	02/10/17 10:00
Sample Name:	EB-020817	**Basis:**	NA
Lab Code:	K1701351-017		

Total Metals

Analyte Name	Analysis Method	Result	Units	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony	6020A	**0.351**	ug/L	0.050	0.013	0.006	1	02/27/17 07:25	02/17/17	
Arsenic	6020A	ND U	ug/L	0.50	0.50	0.20	1	02/27/17 07:25	02/17/17	
Beryllium	6020A	ND U	ug/L	0.020	0.020	0.006	1	02/27/17 07:25	02/17/17	
Copper	6020A	**0.28**	ug/L	0.10	0.05	0.02	1	02/27/17 07:25	02/17/17	
Lead	6020A	**1.09**	ug/L	0.020	0.010	0.004	1	02/27/17 07:25	02/17/17	
Nickel	6020A	**0.10 J**	ug/L	0.20	0.05	0.02	1	02/27/17 07:25	02/17/17	
Zinc	6020A	**1.01**	ug/L	0.50	0.50	0.20	1	02/27/17 07:25	02/17/17	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/09/17 17:00
Sample Matrix:	Water	**Date Received:**	02/10/17 10:00
Sample Name:	EB-020917	**Basis:**	NA
Lab Code:	K1701351-018		

Total Metals

Analyte Name	Analysis Method	Result	Units	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony	6020A	**0.792**	ug/L	0.050	0.013	0.006	1	02/27/17 07:28	02/17/17	
Arsenic	6020A	**0.47 J**	ug/L	0.50	0.50	0.20	1	02/27/17 07:28	02/17/17	
Beryllium	6020A	ND U	ug/L	0.020	0.020	0.006	1	02/27/17 07:28	02/17/17	
Copper	6020A	**0.23**	ug/L	0.10	0.05	0.02	1	02/27/17 07:28	02/17/17	
Lead	6020A	**0.780**	ug/L	0.020	0.010	0.004	1	02/27/17 07:28	02/17/17	
Nickel	6020A	**0.11 J**	ug/L	0.20	0.05	0.02	1	02/27/17 07:28	02/17/17	
Zinc	6020A	**1.30**	ug/L	0.50	0.50	0.20	1	02/27/17 07:28	02/17/17	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	KQ1701660-01		

Total Metals

Analyte Name	Analysis Method	Result	Units	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony	6020A	**0.006 J**	ug/L	0.050	0.013	0.006	1	02/27/17 07:03	02/17/17	
Arsenic	6020A	ND U	ug/L	0.50	0.50	0.20	1	02/27/17 07:03	02/17/17	
Beryllium	6020A	ND U	ug/L	0.020	0.020	0.006	1	02/27/17 07:03	02/17/17	
Copper	6020A	**0.05 J**	ug/L	0.10	0.05	0.02	1	02/27/17 07:03	02/17/17	
Lead	6020A	ND U	ug/L	0.020	0.010	0.004	1	02/27/17 07:03	02/17/17	
Nickel	6020A	**0.03 J**	ug/L	0.20	0.05	0.02	1	02/27/17 07:03	02/17/17	
Zinc	6020A	ND U	ug/L	0.50	0.50	0.20	1	02/27/17 07:03	02/17/17	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	Dry, Air Dried
Lab Code:	KQ1701775-01		

Total Metals

Analyte Name	Analysis Method	Result	Units	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony	6020A	ND U	mg/Kg	0.05	0.025	0.010	5	02/24/17 11:52	02/17/17	
Arsenic	6020A	ND U	mg/Kg	0.5	0.13	0.04	5	02/24/17 11:52	02/17/17	
Beryllium	6020A	**0.006 J**	mg/Kg	0.020	0.020	0.005	5	02/24/17 11:52	02/17/17	
Copper	6020A	ND U	mg/Kg	0.10	0.10	0.04	5	02/24/17 11:52	02/17/17	
Lead	6020A	ND U	mg/Kg	0.05	0.050	0.020	5	02/24/17 11:52	02/17/17	
Nickel	6020A	**0.03 J**	mg/Kg	0.20	0.10	0.03	5	02/24/17 11:52	02/17/17	
Zinc	6020A	**0.27 J**	mg/Kg	0.5	0.50	0.20	5	02/24/17 11:52	02/17/17	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/07/17
Sample Matrix:	Soil	**Date Received:**	02/10/17
		Date Analyzed:	02/24/17
		Date Extracted:	02/17/17

Duplicate Matrix Spike Summary
Total Metals

Sample Name:	FD-020717	**Units:**	mg/Kg
Lab Code:	K1701351-001	**Basis:**	Dry, Air Dried
Analysis Method:	6020A		
Prep Method:	EPA 3050B		

		Matrix Spike KQ1701775-03			**Duplicate Matrix Spike** KQ1701775-04					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Antimony	0.242	35.7	96.7	37 N	38.1	98.2	39 N	72-124	7	20
Arsenic	4.88	101	96.7	100	101	98.2	98	82-118	<1	20
Beryllium	0.988	11.1	9.67	105	11.2	9.82	104	80-120	<1	20
Copper	14.5	64.2	48.3	103	65.2	49.0	103	84-119	2	20
Lead	31.8	141	96.7	113	142	98.2	112	84-118	<1	20
Nickel	7.90	108	96.7	103	109	98.2	103	84-119	2	20
Zinc	42.8	141	96.7	101	141	98.2	100	82-119	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Printed 03/06/17 10:48:16 AM Superset Reference:

Client: ARCADIS U.S., Inc.
Project: Castner Range/06261038.0001.00400
Sample Matrix: Soil

Service Request: K1701351
Date Analyzed: 02/24/17

Lab Control Sample Summary
Total Metals

Units:mg/Kg
Basis: Dry, Air Dried

Lab Control Sample
KQ1701775-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Antimony	6020A	101	100	101	72-124
Arsenic	6020A	101	100	101	82-118
Beryllium	6020A	10.5	10.0	105	80-120
Copper	6020A	51.2	50.0	102	84-119
Lead	6020A	105	100	105	84-118
Nickel	6020A	105	100	105	84-119
Zinc	6020A	103	100	103	82-119

QA/QC Report

Client: ARCADIS U.S., Inc.
Project: Castner Range/06261038.0001.00400
Sample Matrix: Water

Service Request: K1701351
Date Analyzed: 02/27/17 - 03/01/17

Duplicate Lab Control Sample Summary
Total Metals

Units:ug/L
Basis:NA

			Lab Control Sample			Duplicate Lab Control Sample				
			KQ1701660-02			KQ1701660-03				
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Antimony	6020A	54.0	50.0	108	54.0	50.0	108	85-117	<1	20
Arsenic	6020A	50.3	50.0	101	50.9	50.0	102	84-116	1	20
Beryllium	6020A	2.52	2.50	101	2.52	2.50	101	83-121	<1	20
Copper	6020A	13.0	12.5	104	13.3	12.5	106	85-118	2	20
Lead	6020A	51.2	50.0	102	52.2	50.0	104	88-115	2	20
Nickel	6020A	24.3	25.0	97	24.9	25.0	99	85-117	2	20
Zinc	6020A	26.8	25.0	107	27.7	25.0	111	83-119	3	20

Prep Summary Report

Client: ARCADIS U.S., Inc. **Service Request:**K1701351
Project: Castner Range/06261038.0001.00400
Sample Matrix: Soil

Metals

Prep Method: EPA 3050B **Extraction Lot:**281874
Analytical Method: 6020A

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
FD-020717	K1701351-001	2/7/17	2/10/17	1.030 g	100 mL	
FD-020817	K1701351-002	2/7/17	2/10/17	1.045 g	100 mL	
FTBL-SB-02-0-0.5-020817	K1701351-003	2/8/17	2/10/17	1.028 g	100 mL	
FTBL-SB-02-0.5-2-020817	K1701351-004	2/8/17	2/10/17	1.031 g	100 mL	
FTBL-SB-02-4-5.5-020817	K1701351-005	2/8/17	2/10/17	1.066 g	100 mL	
FTBL-SB-01D-0-0.5-020717	K1701351-006	2/7/17	2/10/17	1.057 g	100 mL	
FTBL-SB-01D-0.5-2-020717	K1701351-007	2/7/17	2/10/17	1.039 g	100 mL	
FTBL-SB-01D-4-6-020717	K1701351-008	2/7/17	2/10/17	1.057 g	100 mL	
FTBL-SB-01-0-0.5-020717	K1701351-009	2/7/17	2/10/17	1.042 g	100 mL	
FTBL-SB-01-0.5-2-020717	K1701351-010	2/7/17	2/10/17	1.000 g	100 mL	
FTBL-SB-01-4-6-020717	K1701351-011	2/7/17	2/10/17	1.007 g	100 mL	
FTBL-SB-03-0-0.5-020817	K1701351-012	2/8/17	2/10/17	1.045 g	100 mL	
FTBL-SB-03-6-8-020817	K1701351-013	2/8/17	2/10/17	1.030 g	100 mL	
FTBL-SB03-28-30-020917	K1701351-015	2/9/17	2/10/17	1.048 g	100 mL	
Method Blank	KQ1701775-01MB	NA	NA	1.00 g	100 mL	
Lab Control Sample	KQ1701775-02LCS	NA	NA	1.00 g	100 mL	
Matrix Spike	KQ1701775-03MS	2/7/17	2/10/17	1.044 g	100 mL	
Duplicate Matrix Spike	KQ1701775-04DMS	2/7/17	2/10/17	1.028 g	100 mL	

Prep Summary Report

Client: ARCADIS U.S., Inc. **Service Request:**K1701351
Project: Castner Range/06261038.0001.00400
Sample Matrix: Water

Metals

Prep Method: EPA CLP-METALS ILM04.0 **Extraction Lot:**281699
Analytical Method: 6020A

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
EB-020717	K1701351-016	2/7/17	2/10/17	10 mL	10 mL	
EB-020817	K1701351-017	2/8/17	2/10/17	10 mL	10 mL	
EB-020917	K1701351-018	2/9/17	2/10/17	10 mL	10 mL	
Method Blank	KQ1701660-01MB	NA	NA	10 mL	10 mL	
Lab Control Sample	KQ1701660-02LCS	NA	NA	10 mL	10.3 mL	
Duplicate Lab Control Sample	KQ1701660-03DLCS	NA	NA	10 mL	10.3 mL	

Client: ARCADIS U.S., Inc. **Service Request:** K1701351

Project: Castner Range/06261038.0001.00400

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Concentration Units: ug/L

Analyte	Method	Analysis Batch	Initial Calibration			Continuing Calibration			Continuing Calibration		
			True	Found	%R (1)	True	Found	%R (1)	True	Found	%R (1)
Antimony	6020A	536154	25.0	25.2	101	25.0	25.0	100	25.0	26.3	105
Antimony	6020A	535843	25.0	26.6	106	25.0	25.6	102	25.0	25.5	102
Arsenic	6020A	536154	25.0	24.8	99	25.0	25.0	100	25.0	25.1	100
Arsenic	6020A	535843	25.0	25.7	103	25.0	24.8	99	25.0	24.8	99
Beryllium	6020A	536154	2.50	2.44	98	25.0	24.4	98	25.0	24.5	98
Beryllium	6020A	535843	2.50	2.66	106	25.0	25.1	100	25.0	25.3	101
Copper	6020A	536561	12.5	13.0	104	25.0	24.5	98	25.0	25.2	101
Copper	6020A	536154	12.5	11.8	94	25.0	25.0	100	25.0	24.3	97
Copper	6020A	535843	12.5	13.2	106	25.0	25.2	101	25.0	25.2	101
Lead	6020A	536154	25.0	24.8	99	25.0	25.0	100	25.0	25.3	101
Lead	6020A	535843	25.0	25.4	102	25.0	24.9	100	25.0	24.9	100
Nickel	6020A	536154	25.0	24.5	98	25.0	25.3	101	25.0	24.5	98
Nickel	6020A	535843	25.0	26.3	105	25.0	25.4	102	25.0	25.9	104
Zinc	6020A	536154	25.0	25.0	100	25.0	25.1	100	25.0	25.3	101
Zinc	6020A	535843	25.0	26.0	104	25.0	25.2	101	25.0	25.6	102

Client: ARCADIS U.S., Inc. **Service Request:** K1701351

Project: Castner Range/06261038.0001.00400

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Concentration Units: ug/L

Analyte	Method	Analysis Batch	Initial Calibration			Continuing Calibration			Continuing Calibration		
			True	Found	%R (1)	True	Found	%R (1)	True	Found	%R (1)
Antimony	6020A	536154				25.0	26.6	107	25.0	26.7	107
Antimony	6020A	535843				25.0	25.9	104			
Arsenic	6020A	536154				25.0	25.0	100	25.0	25.0	100
Arsenic	6020A	535843				25.0	24.7	99			
Beryllium	6020A	536154				25.0	24.9	100	25.0	24.9	99
Beryllium	6020A	535843				25.0	25.3	101			
Copper	6020A	536561				25.0	24.2	97			
Copper	6020A	536154				25.0	24.3	97	25.0	24.0	96
Copper	6020A	535843				25.0	25.6	103			
Lead	6020A	536154				25.0	25.9	104	25.0	25.7	103
Lead	6020A	535843				25.0	24.6	98			
Nickel	6020A	536154				25.0	24.6	98	25.0	24.1	97
Nickel	6020A	535843				25.0	25.5	102			
Zinc	6020A	536154				25.0	25.5	102	25.0	25.6	102
Zinc	6020A	535843				25.0	25.0	100			

Client: ARCADIS U.S., Inc. **Service Request:** K1701351

Project: Castner Range/06261038.0001.00400

INITIAL AND CONTINUING CALIBRATION BLANK

Concentration Units: ug/L

Analyte	Method	Analysis Batch	Initial Calibration Blank		Continuing Calibration Blank		Continuing Calibration Blank		Continuing Calibration Blank	
			Result	C	Result	C	Result	C	Result	C
Antimony	6020A	536154	0.022	J	0.015	J	0.023	J	0.020	J
Antimony	6020A	535843	0.02	J	0.02	U	0.02	U	0.02	U
Arsenic	6020A	536154	0.20	U	0.20	U	0.20	U	0.20	U
Arsenic	6020A	535843	0.08	U	0.08	U	0.08	U	0.08	U
Beryllium	6020A	536154	0.006	U	0.006	U	0.006	U	0.006	U
Beryllium	6020A	535843	0.010	U	0.010	U	0.012	J	0.010	U
Copper	6020A	536561	0.00	U	0.00	U	0.00	U	0.00	U
Copper	6020A	536154	0.04	J	0.03	J	0.07	J	0.07	J
Copper	6020A	535843	0.08	U	0.08	U	0.08	U	0.08	U
Lead	6020A	536154	0.004	U	0.004	U	0.007	J	0.005	J
Lead	6020A	535843	0.04	U	0.04	U	0.04	J	0.04	U
Nickel	6020A	536154	0.02	U	0.02	U	0.02	U	0.02	U
Nickel	6020A	535843	0.06	U	0.06	U	0.06	U	0.06	U
Zinc	6020A	536154	0.20	U	0.20	U	0.20	U	0.20	U
Zinc	6020A	535843	0.4	U	0.4	U	0.4	U	0.4	U

Client: ARCADIS U.S., Inc. **Service Request:** K1701351

Project: Castner Range/06261038.0001.00400

INITIAL AND CONTINUING CALIBRATION BLANK

Concentration Units: ug/L

Analyte	Method	Analysis Batch	Initial Calibration Blank Result	C	Continuing Calibration Blank Result	C	Continuing Calibration Blank Result	C	Continuing Calibration Blank Result	C
Antimony	6020A	536154			0.023	J				
Arsenic	6020A	536154			0.20	U				
Beryllium	6020A	536154			0.006	U				
Copper	6020A	536154			0.07	J				
Lead	6020A	536154			0.006	J				
Nickel	6020A	536154			0.02	U				
Zinc	6020A	536154			0.20	U				

Client: ARCADIS U.S., Inc. **Service Request:** K1701351

Project: Castner Range/06261038.0001.00400

LOW LEVEL INITIAL AND LOW LEVEL CONTINUING CALIBRATION VERIFICATION

Concentration Units: ug/L

Sample ID / Analyte	Method	Analysis Batch:	Result	True Value	% Rec	% Rec. Limits	Analysis Date
LLICVS							
Antimony	6020A	535843	0.1	0.1	107	80-120	02/24/17 11:39
Arsenic	6020A	535843	1.0	1.0	102	80-120	02/24/17 11:39
Beryllium	6020A	535843	0.03	0.04	84	80-120	02/24/17 11:39
Copper	6020A	535843	0.2	0.2	91	80-120	02/24/17 11:39
Lead	6020A	535843	0.1	0.1	98	80-120	02/24/17 11:39
Nickel	6020A	535843	0.4	0.4	96	80-120	02/24/17 11:39
Zinc	6020A	535843	1.1	1.0	106	80-120	02/24/17 11:39
LLCCVS							
Antimony	6020A	535843	0.1	0.1	104	70-130	02/24/17 13:12
Arsenic	6020A	535843	1.1	1.0	107	70-130	02/24/17 13:12
Beryllium	6020A	535843	0.04	0.04	97	70-130	02/24/17 13:12
Copper	6020A	535843	0.2	0.2	115	70-130	02/24/17 13:12
Lead	6020A	535843	0.1	0.1	123	70-130	02/24/17 13:12
Nickel	6020A	535843	0.4	0.4	106	70-130	02/24/17 13:12
Zinc	6020A	535843	1.0	1.0	100	70-130	02/24/17 13:12
LLICV							
Antimony	6020A	536154	0.04	0.05	88	80-120	02/27/17 06:34
Arsenic	6020A	536154	0.5	0.5	91	80-120	02/27/17 06:34
Beryllium	6020A	536154	0.02	0.02	103	80-120	02/27/17 06:34
Copper	6020A	536154	0.1	0.1	101	80-120	02/27/17 06:34
Lead	6020A	536154	0.02	0.02	83	80-120	02/27/17 06:34
Nickel	6020A	536154	0.2	0.2	83	80-120	02/27/17 06:34
Zinc	6020A	536154	0.4	0.5	84	80-120	02/27/17 06:34
LLCCV							
Antimony	6020A	536154	0.06	0.05	122	70-130	02/27/17 07:55
Arsenic	6020A	536154	0.4	0.5	79	70-130	02/27/17 07:55
Beryllium	6020A	536154	0.02	0.02	110	70-130	02/27/17 07:55
Copper	6020A	536154	0.1	0.1	128	70-130	02/27/17 07:55
Lead	6020A	536154	0.02	0.02	92	70-130	02/27/17 07:55
Nickel	6020A	536154	0.2	0.2	79	70-130	02/27/17 07:55
Zinc	6020A	536154	0.4	0.5	80	70-130	02/27/17 07:55
LLCCV							
Antimony	6020A	536154	0.06	0.05	117	70-130	02/27/17 09:40
Arsenic	6020A	536154	0.5	0.5	106	70-130	02/27/17 09:40
Copper	6020A	536154	0.1	0.1	117	70-130	02/27/17 09:40
Lead	6020A	536154	0.02	0.02	93	70-130	02/27/17 09:40

Client: ARCADIS U.S., Inc. **Service Request:** K1701351

Project: Castner Range/06261038.0001.00400

LOW LEVEL INITIAL AND LOW LEVEL CONTINUING CALIBRATION VERIFICATION

Concentration Units: ug/L

Sample ID / Analyte	Method	Analysis Batch:	Result	True Value	% Rec	% Rec. Limits	Analysis Date
LLCCV							
Nickel	6020A	536154	0.2	0.2	83	70-130	02/27/17 09:40
Zinc	6020A	536154	0.4	0.5	81	70-130	02/27/17 09:40
LLICV							
Copper	6020A	536561	0.1	0.1	103	80-120	03/01/17 06:37
LLCCV							
Copper	6020A	536561	0.1	0.1	123	70-130	03/01/17 07:26
LLCCV							
Copper	6020A	536561	0.1	0.1	110	70-130	03/01/17 07:56

Client: ARCADIS U.S., Inc. **Service Request:** K1701351

Project: Castner Range/06261038.0001.00400

ICP INTERFERENCE CHECK SAMPLE

Sample ID ICSA **Concentration Units:** ug/L

Analyte	Method	Analysis Batch:	Result	True Value	% Rec	% Rec. Limits	Analysis Date
Antimony	6020A	535843	0.26	-	-	-	02/24/17 11:45
Arsenic	6020A	535843	0.3	-	-	-	02/24/17 11:45
Beryllium	6020A	535843	0.184	-	-	-	02/24/17 11:45
Copper	6020A	535843	0.82	-	-	-	02/24/17 11:45
Lead	6020A	535843	0.27	-	-	-	02/24/17 11:45
Nickel	6020A	535843	0.76	-	-	-	02/24/17 11:45
Zinc	6020A	535843	1.1	-	-	-	02/24/17 11:45

Client: ARCADIS U.S., Inc. **Service Request:** K1701351

Project: Castner Range/06261038.0001.00400

ICP INTERFERENCE CHECK SAMPLE

Sample ID ICSAB **Concentration Units:** ug/L

Analyte	Method	Analysis Batch:	Result	True Value	% Rec	% Rec. Limits	Analysis Date
Antimony	6020A	535843	0.08	-	-	-	02/24/17 11:49
Arsenic	6020A	535843	25.5	25.0	102	80-120	02/24/17 11:49
Beryllium	6020A	535843	0.076	-	-	-	02/24/17 11:49
Copper	6020A	535843	47.8	50.0	96	80-120	02/24/17 11:49
Lead	6020A	535843	0.14	-	-	-	02/24/17 11:49
Nickel	6020A	535843	49.7	50.0	99	80-120	02/24/17 11:49
Zinc	6020A	535843	25.4	25.0	102	80-120	02/24/17 11:49

Client: ARCADIS U.S., Inc. **Service Request:** K1701351

Project: Castner Range/06261038.0001.00400

ICP INTERFERENCE CHECK SAMPLE

Sample ID ICSA **Concentration Units:** ug/L

Analyte	Method	Analysis Batch:	Result	True Value	% Rec	% Rec. Limits	Analysis Date
Antimony	6020A	536154	0.114	-	-	-	02/27/17 06:45
Arsenic	6020A	536154	0.20	-	-	-	02/27/17 06:45
Beryllium	6020A	536154	0.023	-	-	-	02/27/17 06:45
Copper	6020A	536154	1.02	-	-	-	02/27/17 06:45
Lead	6020A	536154	0.110	-	-	-	02/27/17 06:45
Nickel	6020A	536154	1.50	-	-	-	02/27/17 06:45
Zinc	6020A	536154	0.99	-	-	-	02/27/17 06:45

Client: ARCADIS U.S., Inc. **Service Request:** K1701351

Project: Castner Range/06261038.0001.00400

ICP INTERFERENCE CHECK SAMPLE

Sample ID ICSAB **Concentration Units:** ug/L

Analyte	Method	Analysis Batch:	Result	True Value	% Rec	% Rec. Limits	Analysis Date
Antimony	6020A	536154	0.063	-	-	-	02/27/17 06:49
Arsenic	6020A	536154	24.3	25.0	97	80-120	02/27/17 06:49
Beryllium	6020A	536154	0.006	-	-	-	02/27/17 06:49
Copper	6020A	536154	47.7	50.0	95	80-120	02/27/17 06:49
Lead	6020A	536154	0.094	-	-	-	02/27/17 06:49
Nickel	6020A	536154	47.9	50.0	96	80-120	02/27/17 06:49
Zinc	6020A	536154	23.9	25.0	96	80-120	02/27/17 06:49

Client: ARCADIS U.S., Inc. **Service Request:** K1701351
Project: Castner Range/06261038.0001.00400

ICP INTERFERENCE CHECK SAMPLE

Sample ID ICSA **Concentration Units:** ug/L

Analyte	Method	Analysis Batch:	Result	True Value	% Rec	% Rec. Limits	Analysis Date
Copper	6020A	536561	0.83	-	-	-	03/01/17 06:40

Client: ARCADIS U.S., Inc. **Service Request:** K1701351

Project: Castner Range/06261038.0001.00400

ICP INTERFERENCE CHECK SAMPLE

Sample ID ICSAB **Concentration Units:** ug/L

Analyte	Method	Analysis Batch:	Result	True Value	% Rec	% Rec. Limits	Analysis Date
Copper	6020A	536561	46.7	50.0	93	80-120	03/01/17 06:43

Client: ARCADIS U.S., Inc. **Service Request:** K1701351

Project: Castner Range/06261038.0001.00400

POST SPIKE SAMPLE RECOVERY

Concentration Units: ug/L

Sample ID / Analyte	Method	Analysis Batch:	Initial Sample Result	Post Spike Result	True Value	% Rec	% Rec. Limits	Analysis Date
K1701351-001A								
Antimony	6020A	535843	0.50	53.4	50.0	106	80-120	02/24/17 12:05
Arsenic	6020A	535843	10.0	60.4	50.0	101	80-120	02/24/17 12:05
Beryllium	6020A	535843	2.02	54.9	50.0	106	80-120	02/24/17 12:05
Copper	6020A	535843	29.8	79.4	50.0	99	80-120	02/24/17 12:05
Lead	6020A	535843	64.9	115	50.0	100	80-120	02/24/17 12:05
Nickel	6020A	535843	16.1	67.5	50.0	103	80-120	02/24/17 12:05
Zinc	6020A	535843	87.4	138	50.0	100	80-120	02/24/17 12:05
K1701351-016A								
Antimony	6020A	536154	0.351	21.0	20.0	103	80-120	02/27/17 07:13
Arsenic	6020A	536154	0.20 U	20.2	20.0	101	80-120	02/27/17 07:13
Beryllium	6020A	536154	0.006 U	19.5	20.0	98	80-120	02/27/17 07:13
Copper	6020A	536154	0.31	19.4	20.0	95	80-120	02/27/17 07:13
Lead	6020A	536154	0.196	20.3	20.0	101	80-120	02/27/17 07:13
Nickel	6020A	536154	0.09 J	19.3	20.0	96	80-120	02/27/17 07:13
Zinc	6020A	536154	0.97	21.1	20.0	101	80-120	02/27/17 07:13

Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: ARCADIS U.S., Inc. **Service Request:** K1701351

Project: Castner Range/06261038.0001.00400

ICP SERIAL DILUTIONS

Concentration Units: ug/L

Sample ID / Analyte	Method	Analysis Batch:	Initial Sample Result	Serial Dillution Result	% Diff	% Diff. Limit	Analysis Date
K1701351-001SDL							
Antimony	6020A	535843	0.50	0.48 J	3	10	02/24/17 12:02
Arsenic	6020A	535843	10.0	10.2	2	10	02/24/17 12:02
Beryllium	6020A	535843	2.02	1.98	2	10	02/24/17 12:02
Copper	6020A	535843	29.8	30.7	3	10	02/24/17 12:02
Lead	6020A	535843	64.9	66.3	2	10	02/24/17 12:02
Nickel	6020A	535843	16.1	16.9	5	10	02/24/17 12:02
Zinc	6020A	535843	87.4	88.4	1	10	02/24/17 12:02
K1701351-016SDL							
Antimony	6020A	536154	0.35	0.31	12	10	02/27/17 07:10
Arsenic	6020A	536154	0.2 U	1.0 U	322	10	02/27/17 07:10
Beryllium	6020A	536154	0.006 U	0.03 U	421	10	02/27/17 07:10
Copper	6020A	536154	0.31	0.52	70	10	02/27/17 07:10
Lead	6020A	536154	0.20	0.24	20	10	02/27/17 07:10
Nickel	6020A	536154	0.09 J	0.1 U	19	10	02/27/17 07:10
Zinc	6020A	536154	1.0	1.6 J	63	10	02/27/17 07:10

Client: ARCADIS U.S., Inc. **Service Request:** K1701351

Project: Castner Range/06261038.0001.00400

Detection Limits

Matrix: Soil

Analyte	Mass	Units	LOQ	LOD	MDL	Method
Antimony	123	ug/L	0.1	0.05	0.02	6020A
Arsenic	75	ug/L	1	0.25	0.08	6020A
Beryllium	9	ug/L	0.04	0.04	0.01	6020A
Copper	65	ug/L	0.2	0.2	0.08	6020A
Lead	208	ug/L	0.1	0.1	0.04	6020A
Nickel	60	ug/L	0.4	0.2	0.06	6020A
Zinc	66	ug/L	1	1	0.4	6020A

Client: ARCADIS U.S., Inc. **Service Request:** K1701351

Project: Castner Range/06261038.0001.00400

Detection Limits

Matrix: Water

Analyte	Mass	Units	LOQ	LOD	MDL	Method
Antimony	123	ug/L	0.05	0.0125	0.006	6020A
Arsenic	75	ug/L	0.5	0.5	0.2	6020A
Beryllium	9	ug/L	0.02	0.02	0.006	6020A
Copper	65	ug/L	0.1	0.05	0.02	6020A
Lead	208	ug/L	0.02	0.01	0.004	6020A
Nickel	60	ug/L	0.2	0.05	0.02	6020A
Zinc	66	ug/L	0.5	0.5	0.2	6020A

Client: ARCADIS U.S., Inc. **Service Request:** K1701351

Project: Castner Range/06261038.0001.00400

ICP Linear Range (Quarterly)

Instrument: K-ICP-MS-05

Analyte	Concentration (ug/L)	Method
Antimony 123	3000	6020A
Arsenic 75	3000	6020A
Beryllium 9	3000	6020A
Copper 65	3000	6020A
Lead 208	3000	6020A
Nickel 60	3000	6020A
Zinc 66	3000	6020A

Client: ARCADIS U.S., Inc. **Service Request:** K1701351

Project: Castner Range/06261038.0001.00400

ICP Linear Range (Quarterly)

Instrument: K-ICP-MS-03

Analyte	Concentration (ug/L)	Method
Antimony 123	2000	6020A
Arsenic 75	2000	6020A
Beryllium 9	2000	6020A
Copper 65	2000	6020A
Lead 208	2000	6020A
Nickel 60	2000	6020A
Zinc 66	2000	6020A

Client: ARCADIS U.S., Inc. **Service Request:** K1701351

Project: Castner Range/06261038.0001.00400

Analysis Run Log

Instrument ID: **K-ICP-MS-05** **Analytical BatchID:** **535843**

Sample	Dilution Factor	Date/Time	Sb	As	Be	Cu	Pb	Ni	Zn
ZZZZZZ	1	02/24/17 11:18							
ZZZZZZ	1	02/24/17 11:22							
ICV	1	02/24/17 11:25	X	X	X	X	X	X	X
CCV	1	02/24/17 11:28	X	X	X	X	X	X	X
ICB	1	02/24/17 11:32	X	X	X	X	X	X	X
CCB	1	02/24/17 11:35	X	X	X	X	X	X	X
LLICVS	1	02/24/17 11:39	X	X	X	X	X	X	X
ZZZZZZ	1	02/24/17 11:42							
ICSA	1	02/24/17 11:45	X	X	X	X	X	X	X
ICSAB	1	02/24/17 11:49	X	X	X	X	X	X	X
KQ1701775-01MB	5	02/24/17 11:52	X	X	X	X	X	X	X
KQ1701775-02LCS	20	02/24/17 11:55	X	X	X	X	X	X	X
K1701351-001	5	02/24/17 11:59	X	X	X	X	X	X	X
K1701351-001SDL	25	02/24/17 12:02	X	X	X	X	X	X	X
K1701351-001PS	5	02/24/17 12:05	X	X	X	X	X	X	X
K1701351-001MS	5	02/24/17 12:09	X	X	X	X	X	X	X
K1701351-001DMS	5	02/24/17 12:12	X	X	X	X	X	X	X
K1701351-002	5	02/24/17 12:15	X	X	X	X	X	X	X
K1701351-003	5	02/24/17 12:19	X	X	X	X	X	X	X
K1701351-004	5	02/24/17 12:22	X	X	X	X	X	X	X
CCV	1	02/24/17 12:25	X	X	X	X	X	X	X
CCB	1	02/24/17 12:29	X	X	X	X	X	X	X
K1701351-005	5	02/24/17 12:32	X	X	X	X	X	X	X
K1701351-006	5	02/24/17 12:35	X	X	X	X	X	X	X
K1701351-007	5	02/24/17 12:39	X	X	X	X	X	X	X
K1701351-008	5	02/24/17 12:42	X	X	X	X	X	X	X
K1701351-009	5	02/24/17 12:45	X	X	X	X	X	X	X
K1701351-010	5	02/24/17 12:49	X	X	X	X	X	X	X
K1701351-011	5	02/24/17 12:52	X	X	X	X	X	X	X
K1701351-012	5	02/24/17 12:55	X	X	X	X	X	X	X
K1701351-013	5	02/24/17 12:59	X	X	X	X	X	X	X
K1701351-015	5	02/24/17 13:02	X	X	X	X	X	X	X
CCV	1	02/24/17 13:05	X	X	X	X	X	X	X
CCB	1	02/24/17 13:09	X	X	X	X	X	X	X
LLCCVS	1	02/24/17 13:12	X	X	X	X	X	X	X

Client: ARCADIS U.S., Inc. **Service Request:** K1701351

Project: Castner Range/06261038.0001.00400

Analysis Run Log

Instrument ID: **K-ICP-MS-03** **Analytical BatchID:** **536154**

Sample	Dilution Factor	Date/Time	Sb	As	Be	Cu	Pb	Ni	Zn
ZZZZZZ	1	02/27/17 05:50							
ZZZZZZ	1	02/27/17 05:53							
ICV1	1	02/27/17 05:57	X	X	X	X	X	X	X
CCV1	1	02/27/17 06:00	X	X	X	X	X	X	X
ICB1	1	02/27/17 06:09	X	X	X	X	X	X	X
CCB1	1	02/27/17 06:13	X	X	X	X	X	X	X
ZZZZZZ	1	02/27/17 06:17							
LLICVW	1	02/27/17 06:34	X	X	X	X	X	X	X
ZZZZZZ	1	02/27/17 06:38							
ICSA	1	02/27/17 06:45	X	X	X	X	X	X	X
ICSAB	1	02/27/17 06:49	X	X	X	X	X	X	X
KQ1701660-01MB	1	02/27/17 07:03	X	X	X	X	X	X	X
K1701351-016	1	02/27/17 07:06	X	X	X	X	X	X	X
K1701351-016SDL	1	02/27/17 07:10	X	X	X	X	X	X	X
K1701351-016PS	1	02/27/17 07:13	X	X	X	X	X	X	X
KQ1701660-02LCS	1	02/27/17 07:16	X	X	X	X	X	X	X
KQ1701660-03DLCS	1	02/27/17 07:20	X	X	X	X	X	X	X
K1701351-017	1	02/27/17 07:25	X	X	X	X	X	X	X
K1701351-018	1	02/27/17 07:28	X	X	X	X	X	X	X
ZZZZZZ	1	02/27/17 07:32							
ZZZZZZ	1	02/27/17 07:37							
CCV2	1	02/27/17 07:42	X	X	X	X	X	X	X
CCB2	1	02/27/17 07:51	X	X	X	X	X	X	X
LLCCVW1	1	02/27/17 07:55	X	X	X	X	X	X	X
ZZZZZZ	1	02/27/17 07:59							
ZZZZZZ	1	02/27/17 08:06							
ZZZZZZ	1	02/27/17 08:12							
ZZZZZZ	1	02/27/17 08:16							
ZZZZZZ	1	02/27/17 08:19							
ZZZZZZ	1	02/27/17 08:23							
ZZZZZZ	1	02/27/17 08:26							
ZZZZZZ	1	02/27/17 08:32							
ZZZZZZ	1	02/27/17 08:36							
ZZZZZZ	1	02/27/17 08:39							
ZZZZZZ	1	02/27/17 08:43							
CCV2	1	02/27/17 08:47	X	X	X	X	X	X	X
CCB2	1	02/27/17 08:57	X	X	X	X	X	X	X

Client: ARCADIS U.S., Inc. **Service Request:** K1701351

Project: Castner Range/06261038.0001.00400

Analysis Run Log

Instrument ID: **K-ICP-MS-03** **Analytical BatchID:** **536154**

Sample	Dilution Factor	Date/Time	Sb	As	Be	Cu	Pb	Ni	Zn
ZZZZZZ	1	02/27/17 09:00							
ZZZZZZ	1	02/27/17 09:04							
ZZZZZZ	1	02/27/17 09:08							
ZZZZZZ	1	02/27/17 09:12							
ZZZZZZ	1	02/27/17 09:15							
ZZZZZZ	1	02/27/17 09:19							
ZZZZZZ	1	02/27/17 09:23							
CCV3	1	02/27/17 09:26	X	X	X	X	X	X	X
CCB3	1	02/27/17 09:37	X	X	X	X	X	X	X
LLCCVW2	1	02/27/17 09:40	X	X		X	X	X	X

Client: ARCADIS U.S., Inc. **Service Request:** K1701351
Project: Castner Range/06261038.0001.00400

Analysis Run Log

Instrument ID: **K-ICP-MS-03** **Analytical BatchID:** **536561**

Sample	Dilution Factor	Date/Time	Cu
ZZZZZZ	1	03/01/17 06:21	
ZZZZZZ	1	03/01/17 06:23	
ICV1	1	03/01/17 06:26	X
CCV1	1	03/01/17 06:29	X
ICB1	1	03/01/17 06:32	X
CCB1	1	03/01/17 06:34	X
LLICVW	1	03/01/17 06:37	X
ICSA	1	03/01/17 06:40	X
ICSAB	1	03/01/17 06:43	X
KQ1701660-02LCS	1	03/01/17 06:47	X
KQ1701660-03DLCS	1	03/01/17 06:50	X
ZZZZZZ	1	03/01/17 06:53	
ZZZZZZ	1	03/01/17 06:59	
ZZZZZZ	1	03/01/17 07:02	
ZZZZZZ	1	03/01/17 07:05	
ZZZZZZ	1	03/01/17 07:07	
ZZZZZZ	1	03/01/17 07:13	
ZZZZZZ	1	03/01/17 07:16	
CCV2	1	03/01/17 07:19	X
CCB2	1	03/01/17 07:23	X
LLCCVW1	1	03/01/17 07:26	X
ZZZZZZ	1	03/01/17 07:30	
ZZZZZZ	1	03/01/17 07:33	
ZZZZZZ	1	03/01/17 07:36	
ZZZZZZ	1	03/01/17 07:38	
ZZZZZZ	1	03/01/17 07:41	
CCV3	1	03/01/17 07:51	X
CCB3	1	03/01/17 07:53	X
LLCCVW2	1	03/01/17 07:56	X

Client: ARCADIS U.S., Inc. **Service Request:** K1701351
Project: Castner Range/06261038.0001.00400

ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Instrument ID: **K-ICP-MS-05** **Analytical BatchID:** **535843**

Sample	Date/Time	Li6NG	Ge72He	Ge72H2	In115He	Lu175He
ZZZZZZ	02/24/17 11:18					
ZZZZZZ	02/24/17 11:22					
ICV	02/24/17 11:25	97	99	101	99	100
CCV	02/24/17 11:28	97	99	101	99	99
ICB	02/24/17 11:32	97	98	100	99	99
CCB	02/24/17 11:35	97	97	99	99	98
LLICVS	02/24/17 11:39	98	97	100	97	98
ZZZZZZ	02/24/17 11:42					
ICSA	02/24/17 11:45	90	95	97	88	92
ICSAB	02/24/17 11:49	92	95	96	90	96
KQ1701775-01MB	02/24/17 11:52	98	98	99	98	101
KQ1701775-02LCS	02/24/17 11:55	93	97	99	95	95
K1701351-001	02/24/17 11:59	100	104	103	101	100
K1701351-001SDL	02/24/17 12:02	100	100	103	98	98
K1701351-001PS	02/24/17 12:05	99	105	103	101	102
K1701351-001MS	02/24/17 12:09	98	102	101	98	100
K1701351-001DMS	02/24/17 12:12	98	102	101	97	100
K1701351-002	02/24/17 12:15	97	107	104	100	101
K1701351-003	02/24/17 12:19	102	105	105	102	102
K1701351-004	02/24/17 12:22	100	105	103	100	101
CCV	02/24/17 12:25	98	101	103	101	100
CCB	02/24/17 12:29	97	100	102	100	100
K1701351-005	02/24/17 12:32	102	107	105	101	102
K1701351-006	02/24/17 12:35	101	105	104	100	101
K1701351-007	02/24/17 12:39	102	105	103	101	102
K1701351-008	02/24/17 12:42	102	106	103	100	100
K1701351-009	02/24/17 12:45	100	105	104	100	100
K1701351-010	02/24/17 12:49	101	106	106	101	101
K1701351-011	02/24/17 12:52	100	104	103	100	101
K1701351-012	02/24/17 12:55	99	108	105	101	102
K1701351-013	02/24/17 12:59	95	104	100	96	98
K1701351-015	02/24/17 13:02	99	109	105	100	101
CCV	02/24/17 13:05	98	104	105	102	101
CCB	02/24/17 13:09	98	103	105	103	101
LLCCVS	02/24/17 13:12	99	102	104	102	101

Client: ARCADIS U.S., Inc. **Service Request:** K1701351

Project: Castner Range/06261038.0001.00400

ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Instrument ID: **K-ICP-MS-03** **Analytical BatchID:** **536154**

Sample	Date/Time	Li6	Sc45	Ga71	Rh103	In115	Lu175
ZZZZZZ	02/27/17 05:50						
ZZZZZZ	02/27/17 05:53						
ICV1	02/27/17 05:57	103	99	99	99	98	100
CCV1	02/27/17 06:00	105	99	98	98	98	99
ICB1	02/27/17 06:09	94	98	98	99	98	98
CCB1	02/27/17 06:13	102	100	99	99	98	98
ZZZZZZ	02/27/17 06:17						
LLICVW	02/27/17 06:34	108	103	100	100	99	98
ZZZZZZ	02/27/17 06:38						
ICSA	02/27/17 06:45	100	97	95	89	92	93
ICSAB	02/27/17 06:49	106	101	99	92	96	96
KQ1701660-01MB	02/27/17 07:03	101	106	108	104	103	102
K1701351-016	02/27/17 07:06	91	101	105	102	103	103
K1701351-016SDL	02/27/17 07:10	102	105	107	102	102	102
K1701351-016PS	02/27/17 07:13	94	101	105	100	102	103
KQ1701660-02LCS	02/27/17 07:16	93	100	104	100	100	102
KQ1701660-03DLCS	02/27/17 07:20	98	100	103	100	100	103
K1701351-017	02/27/17 07:25	97	99	102	98	98	102
K1701351-018	02/27/17 07:28	93	98	103	98	99	102
ZZZZZZ	02/27/17 07:32						
ZZZZZZ	02/27/17 07:37						
CCV2	02/27/17 07:42	104	104	106	100	102	102
CCB2	02/27/17 07:51	94	101	103	100	100	100
LLCCVW1	02/27/17 07:55	95	102	104	101	101	101
ZZZZZZ	02/27/17 07:59						
ZZZZZZ	02/27/17 08:06						
ZZZZZZ	02/27/17 08:12						
ZZZZZZ	02/27/17 08:16						
ZZZZZZ	02/27/17 08:19						
ZZZZZZ	02/27/17 08:23						
ZZZZZZ	02/27/17 08:26						
ZZZZZZ	02/27/17 08:32						
ZZZZZZ	02/27/17 08:36						
ZZZZZZ	02/27/17 08:39						
ZZZZZZ	02/27/17 08:43						
CCV2	02/27/17 08:47	110	107	109	103	103	106
CCB2	02/27/17 08:57	105	103	105	99	99	102

Client: ARCADIS U.S., Inc. **Service Request:** K1701351
Project: Castner Range/06261038.0001.00400

ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Instrument ID: **K-ICP-MS-03** **Analytical BatchID:** **536154**

Sample	Date/Time	Li6	Sc45	Ga71	Rh103	In115	Lu175
ZZZZZZ	02/27/17 09:00						
ZZZZZZ	02/27/17 09:04						
ZZZZZZ	02/27/17 09:08						
ZZZZZZ	02/27/17 09:12						
ZZZZZZ	02/27/17 09:15						
ZZZZZZ	02/27/17 09:19						
ZZZZZZ	02/27/17 09:23						
CCV3	02/27/17 09:26	112	109	113	106	107	110
CCB3	02/27/17 09:37	109	106	107	101	101	105
LLCCVW2	02/27/17 09:40	110	106	108	101	101	106

Client: ARCADIS U.S., Inc. **Service Request:** K1701351

Project: Castner Range/06261038.0001.00400

ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Instrument ID: **K-ICP-MS-03** **Analytical BatchID:** **536561**

Sample	Date/Time	Ga71	Rh103	Th232
ZZZZZZ	03/01/17 06:21			
ZZZZZZ	03/01/17 06:23			
ICV1	03/01/17 06:26	103	103	105
CCV1	03/01/17 06:29	100	99	94
ICB1	03/01/17 06:32	109	108	115
CCB1	03/01/17 06:34	111	109	119
LLICVW	03/01/17 06:37	112	111	121
ICSA	03/01/17 06:40	106	100	119
ICSAB	03/01/17 06:43	108	102	122
KQ1701660-02LCS	03/01/17 06:47	112	111	
KQ1701660-03DLCS	03/01/17 06:50	112	110	
ZZZZZZ	03/01/17 06:53			
ZZZZZZ	03/01/17 06:59			
ZZZZZZ	03/01/17 07:02			
ZZZZZZ	03/01/17 07:05			
ZZZZZZ	03/01/17 07:07			
ZZZZZZ	03/01/17 07:13			
ZZZZZZ	03/01/17 07:16			
CCV2	03/01/17 07:19	105	99	105
CCB2	03/01/17 07:23	106	100	106
LLCCVW1	03/01/17 07:26	106	100	104
ZZZZZZ	03/01/17 07:30			
ZZZZZZ	03/01/17 07:33			
ZZZZZZ	03/01/17 07:36			
ZZZZZZ	03/01/17 07:38			
ZZZZZZ	03/01/17 07:41			
CCV3	03/01/17 07:51	104	98	108
CCB3	03/01/17 07:53	101	95	104
LLCCVW2	03/01/17 07:56	101	96	106

Nitroaromatics and Nitramines (Explosives)

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Client: ARCADIS U.S., Inc. **Service Request:** K1701351
Project: Castner Range/06261038.0001.00400

Cover Page - Organic Analysis Data Package
Nitroaromatics and Nitramines (Explosives)

Sample Name	Lab Code	Date Collected	Date Received
FD-020717	K1701351-001	02/07/2017	02/10/2017
FD-020817	K1701351-002	02/07/2017	02/10/2017
FTBL-SB-02-0-0.5-020817	K1701351-003	02/08/2017	02/10/2017
FTBL-SB-02-0.5-2-020817	K1701351-004	02/08/2017	02/10/2017
FTBL-SB-02-4-5.5-020817	K1701351-005	02/08/2017	02/10/2017
FTBL-SB-01D-0-0.5-020717	K1701351-006	02/07/2017	02/10/2017
FTBL-SB-01D-0.5-2-020717	K1701351-007	02/07/2017	02/10/2017
FTBL-SB-01D-4-6-020717	K1701351-008	02/07/2017	02/10/2017
FTBL-SB-01-0-0.5-020717	K1701351-009	02/07/2017	02/10/2017
FTBL-SB-01-0.5-2-020717	K1701351-010	02/07/2017	02/10/2017
FTBL-SB-01-4-6-020717	K1701351-011	02/07/2017	02/10/2017
FTBL-SB-03-0-0.5-020817	K1701351-012	02/08/2017	02/10/2017
FTBL-SB-03-6-8-020817	K1701351-013	02/08/2017	02/10/2017
FTBL-SB03-28-30-020917	K1701351-015	02/09/2017	02/10/2017
EB-020717	K1701351-016	02/07/2017	02/10/2017
EB-020817	K1701351-017	02/08/2017	02/10/2017
EB-020917	K1701351-018	02/09/2017	02/10/2017
FD-020717	KWG1701417-1	02/07/2017	02/10/2017
FD-020717	KWG1701417-2	02/07/2017	02/10/2017
FD-020717MS	KWG1701417-3	02/07/2017	02/10/2017
FD-020717DMS	KWG1701417-4	02/07/2017	02/10/2017

Analytical Results

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/07/2017
Sample Matrix:	Water	**Date Received:**	02/10/2017

Nitroaromatics and Nitramines (Explosives)

Sample Name:	EB-020717	**Units:**	ug/L
Lab Code:	K1701351-016	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8330B		

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
HMX	ND	U	0.10	0.10	0.037	1	02/14/17	02/15/17	KWG1701217	
RDX	ND	U	0.20	0.20	0.11	1	02/14/17	02/15/17	KWG1701217	
1,3,5-Trinitrobenzene	ND	U	0.20	0.20	0.14	1	02/14/17	02/15/17	KWG1701217	
1,3-Dinitrobenzene	ND	U	0.10	0.10	0.046	1	02/14/17	02/15/17	KWG1701217	
3,5-Dinitroaniline	ND	U	0.20	0.20	0.084	1	02/14/17	02/15/17	KWG1701217	
TETRYL	ND	U	0.20	0.20	0.099	1	02/14/17	02/15/17	KWG1701217	
Nitrobenzene	ND	U	0.10	0.10	0.027	1	02/14/17	02/15/17	KWG1701217	
4-Amino-2,6-dinitrotoluene	ND	U	0.10	0.10	0.032	1	02/14/17	02/15/17	KWG1701217	
2-Amino-4,6-dinitrotoluene	ND	U	0.10	0.10	0.034	1	02/14/17	02/15/17	KWG1701217	
2,4,6-Trinitrotoluene	ND	U	0.20	0.20	0.092	1	02/14/17	02/15/17	KWG1701217	
2,6-Dinitrotoluene	ND	U	0.20	0.20	0.054	1	02/14/17	02/15/17	KWG1701217	
2,4-Dinitrotoluene	ND	U	0.20	0.20	0.085	1	02/14/17	02/15/17	KWG1701217	
2-Nitrotoluene	ND	U	0.10	0.10	0.032	1	02/14/17	02/15/17	KWG1701217	
4-Nitrotoluene	ND	U	0.10	0.10	0.024	1	02/14/17	02/15/17	KWG1701217	
3-Nitrotoluene	ND	U	0.10	0.10	0.034	1	02/14/17	02/15/17	KWG1701217	
Nitroglycerin	ND	U	1.0	1.0	0.58	1	02/14/17	02/15/17	KWG1701217	
Pentaerythritol Tetranitrate	ND	U	1.0	1.0	0.65	1	02/14/17	02/15/17	KWG1701217	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1-Chloro-3-nitrobenzene	72	23-98	02/15/17	Acceptable

Comments:

Analytical Results

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/08/2017
Sample Matrix:	Water	**Date Received:**	02/10/2017

Nitroaromatics and Nitramines (Explosives)

Sample Name:	EB-020817	**Units:**	ug/L
Lab Code:	K1701351-017	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8330B		

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
HMX	ND	U	0.10	0.10	0.037	1	02/14/17	02/15/17	KWG1701217	
RDX	ND	U	0.20	0.20	0.11	1	02/14/17	02/15/17	KWG1701217	
1,3,5-Trinitrobenzene	ND	U	0.20	0.20	0.14	1	02/14/17	02/15/17	KWG1701217	
1,3-Dinitrobenzene	ND	U	0.10	0.10	0.046	1	02/14/17	02/15/17	KWG1701217	
3,5-Dinitroaniline	ND	U	0.20	0.20	0.084	1	02/14/17	02/15/17	KWG1701217	
TETRYL	ND	U	0.20	0.20	0.099	1	02/14/17	02/15/17	KWG1701217	
Nitrobenzene	ND	U	0.10	0.10	0.027	1	02/14/17	02/15/17	KWG1701217	
4-Amino-2,6-dinitrotoluene	ND	U	0.10	0.10	0.032	1	02/14/17	02/15/17	KWG1701217	
2-Amino-4,6-dinitrotoluene	ND	U	0.10	0.10	0.034	1	02/14/17	02/15/17	KWG1701217	
2,4,6-Trinitrotoluene	ND	U	0.20	0.20	0.092	1	02/14/17	02/15/17	KWG1701217	
2,6-Dinitrotoluene	ND	U	0.20	0.20	0.054	1	02/14/17	02/15/17	KWG1701217	
2,4-Dinitrotoluene	ND	U	0.20	0.20	0.085	1	02/14/17	02/15/17	KWG1701217	
2-Nitrotoluene	ND	U	0.10	0.10	0.032	1	02/14/17	02/16/17	KWG1701217	
4-Nitrotoluene	ND	U	0.10	0.10	0.024	1	02/14/17	02/15/17	KWG1701217	
3-Nitrotoluene	ND	U	0.10	0.10	0.034	1	02/14/17	02/15/17	KWG1701217	
Nitroglycerin	ND	U	1.0	1.0	0.58	1	02/14/17	02/15/17	KWG1701217	
Pentaerythritol Tetranitrate	ND	U	1.0	1.0	0.65	1	02/14/17	02/15/17	KWG1701217	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1-Chloro-3-nitrobenzene	71	23-98	02/15/17	Acceptable

Comments:

Analytical Results

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/09/2017
Sample Matrix:	Water	**Date Received:**	02/10/2017

Nitroaromatics and Nitramines (Explosives)

Sample Name:	EB-020917	**Units:**	ug/L
Lab Code:	K1701351-018	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8330B		

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
HMX	ND	U	0.10	0.10	0.037	1	02/14/17	02/15/17	KWG1701217	
RDX	ND	U	0.20	0.20	0.11	1	02/14/17	02/15/17	KWG1701217	
1,3,5-Trinitrobenzene	ND	U	0.20	0.20	0.14	1	02/14/17	02/15/17	KWG1701217	
1,3-Dinitrobenzene	ND	U	0.10	0.10	0.046	1	02/14/17	02/15/17	KWG1701217	
3,5-Dinitroaniline	ND	U	0.20	0.20	0.084	1	02/14/17	02/15/17	KWG1701217	
TETRYL	ND	U	0.20	0.20	0.099	1	02/14/17	02/15/17	KWG1701217	
Nitrobenzene	ND	U	0.10	0.10	0.027	1	02/14/17	02/15/17	KWG1701217	
4-Amino-2,6-dinitrotoluene	ND	U	0.10	0.10	0.032	1	02/14/17	02/15/17	KWG1701217	
2-Amino-4,6-dinitrotoluene	ND	U	0.10	0.10	0.034	1	02/14/17	02/15/17	KWG1701217	
2,4,6-Trinitrotoluene	ND	U	0.20	0.20	0.092	1	02/14/17	02/15/17	KWG1701217	
2,6-Dinitrotoluene	ND	U	0.20	0.20	0.054	1	02/14/17	02/15/17	KWG1701217	
2,4-Dinitrotoluene	ND	U	0.20	0.20	0.085	1	02/14/17	02/15/17	KWG1701217	
2-Nitrotoluene	ND	U	0.10	0.10	0.032	1	02/14/17	02/15/17	KWG1701217	
4-Nitrotoluene	ND	U	0.10	0.10	0.024	1	02/14/17	02/15/17	KWG1701217	
3-Nitrotoluene	ND	U	0.10	0.10	0.034	1	02/14/17	02/16/17	KWG1701217	
Nitroglycerin	ND	U	1.0	1.0	0.58	1	02/14/17	02/15/17	KWG1701217	
Pentaerythritol Tetranitrate	ND	U	1.0	1.0	0.65	1	02/14/17	02/15/17	KWG1701217	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1-Chloro-3-nitrobenzene	66	23-98	02/15/17	Acceptable

Comments:

Analytical Results

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Nitroaromatics and Nitramines (Explosives)

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1701217-3	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8330B		

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
HMX	ND	U	0.10	0.10	0.037	1	02/14/17	02/15/17	KWG1701217	
RDX	ND	U	0.20	0.20	0.11	1	02/14/17	02/15/17	KWG1701217	
1,3,5-Trinitrobenzene	ND	U	0.20	0.20	0.14	1	02/14/17	02/15/17	KWG1701217	
1,3-Dinitrobenzene	ND	U	0.10	0.10	0.046	1	02/14/17	02/15/17	KWG1701217	
3,5-Dinitroaniline	ND	U	0.20	0.20	0.084	1	02/14/17	02/15/17	KWG1701217	
TETRYL	ND	U	0.20	0.20	0.099	1	02/14/17	02/15/17	KWG1701217	
Nitrobenzene	ND	U	0.10	0.10	0.027	1	02/14/17	02/15/17	KWG1701217	
4-Amino-2,6-dinitrotoluene	ND	U	0.10	0.10	0.032	1	02/14/17	02/15/17	KWG1701217	
2-Amino-4,6-dinitrotoluene	ND	U	0.10	0.10	0.034	1	02/14/17	02/15/17	KWG1701217	
2,4,6-Trinitrotoluene	ND	U	0.20	0.20	0.092	1	02/14/17	02/15/17	KWG1701217	
2,6-Dinitrotoluene	ND	U	0.20	0.20	0.054	1	02/14/17	02/15/17	KWG1701217	
2,4-Dinitrotoluene	ND	U	0.20	0.20	0.085	1	02/14/17	02/15/17	KWG1701217	
2-Nitrotoluene	ND	U	0.10	0.10	0.032	1	02/14/17	02/15/17	KWG1701217	
4-Nitrotoluene	ND	U	0.10	0.10	0.024	1	02/14/17	02/15/17	KWG1701217	
3-Nitrotoluene	ND	U	0.10	0.10	0.034	1	02/14/17	02/16/17	KWG1701217	
Nitroglycerin	ND	U	1.0	1.0	0.58	1	02/14/17	02/15/17	KWG1701217	
Pentaerythritol Tetranitrate	ND	U	1.0	1.0	0.65	1	02/14/17	02/15/17	KWG1701217	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1-Chloro-3-nitrobenzene	71	23-98	02/15/17	Acceptable

Comments:

Analytical Results

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/07/2017
Sample Matrix:	Soil	**Date Received:**	02/10/2017

Nitroaromatics and Nitramines (Explosives)

Sample Name:	FD-020717	**Units:**	mg/Kg
Lab Code:	K1701351-001	**Basis:**	Dry
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8330B		

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
HMX	ND	U	0.041	0.021	0.0065	1	02/21/17	03/03/17	KWG1701417	
RDX	ND	U	0.21	0.21	0.050	1	02/21/17	03/03/17	KWG1701417	
1,3,5-Trinitrobenzene	ND	U	0.081	0.081	0.028	1	02/21/17	03/03/17	KWG1701417	
1,3-Dinitrobenzene	ND	U	0.041	0.041	0.013	1	02/21/17	03/03/17	KWG1701417	
TETRYL	ND	U	0.081	0.081	0.042	1	02/21/17	03/03/17	KWG1701417	
Nitrobenzene	ND	U	0.081	0.021	0.0045	1	02/21/17	03/03/17	KWG1701417	
4-Amino-2,6-dinitrotoluene	ND	U	0.081	0.021	0.0052	1	02/21/17	03/03/17	KWG1701417	
2-Amino-4,6-dinitrotoluene	ND	U	0.041	0.021	0.0076	1	02/21/17	03/03/17	KWG1701417	
2,4,6-Trinitrotoluene	ND	U	0.081	0.041	0.019	1	02/21/17	03/03/17	KWG1701417	
2,6-Dinitrotoluene	ND	U	0.041	0.021	0.0052	1	02/21/17	03/03/17	KWG1701417	
2,4-Dinitrotoluene	ND	U	0.081	0.081	0.042	1	02/21/17	03/03/17	KWG1701417	
2-Nitrotoluene	ND	U	0.081	0.021	0.0072	1	02/21/17	03/03/17	KWG1701417	
4-Nitrotoluene	ND	U	0.081	0.041	0.019	1	02/21/17	03/03/17	KWG1701417	
3-Nitrotoluene	ND	U	0.081	0.041	0.019	1	02/21/17	03/03/17	KWG1701417	
Nitroglycerin	ND	U	0.21	0.21	0.059	1	02/21/17	03/03/17	KWG1701417	
Pentaerythritol Tetranitrate	ND	U	0.21	0.21	0.12	1	02/21/17	03/03/17	KWG1701417	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1-Chloro-3-nitrobenzene	48	34-135	03/03/17	Acceptable

Comments:

Analytical Results

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/07/2017
Sample Matrix:	Soil	**Date Received:**	02/10/2017

Nitroaromatics and Nitramines (Explosives)

Sample Name:	FD-020817	**Units:**	mg/Kg
Lab Code:	K1701351-002	**Basis:**	Dry
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8330B		

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
HMX	ND	U	0.041	0.021	0.0065	1	02/21/17	03/02/17	KWG1701417	
RDX	ND	U	0.21	0.21	0.050	1	02/21/17	03/02/17	KWG1701417	
1,3,5-Trinitrobenzene	ND	U	0.081	0.081	0.028	1	02/21/17	03/02/17	KWG1701417	
1,3-Dinitrobenzene	ND	U	0.041	0.041	0.013	1	02/21/17	03/02/17	KWG1701417	
TETRYL	ND	U	0.081	0.081	0.042	1	02/21/17	03/02/17	KWG1701417	
Nitrobenzene	ND	U	0.081	0.021	0.0045	1	02/21/17	03/02/17	KWG1701417	
4-Amino-2,6-dinitrotoluene	ND	U	0.081	0.021	0.0052	1	02/21/17	03/02/17	KWG1701417	
2-Amino-4,6-dinitrotoluene	ND	U	0.041	0.021	0.0076	1	02/21/17	03/02/17	KWG1701417	
2,4,6-Trinitrotoluene	ND	U	0.081	0.041	0.019	1	02/21/17	03/02/17	KWG1701417	
2,6-Dinitrotoluene	ND	U	0.041	0.021	0.0052	1	02/21/17	03/02/17	KWG1701417	
2,4-Dinitrotoluene	ND	U	0.081	0.081	0.042	1	02/21/17	03/02/17	KWG1701417	
2-Nitrotoluene	ND	U	0.081	0.021	0.0072	1	02/21/17	03/02/17	KWG1701417	
4-Nitrotoluene	ND	U	0.081	0.041	0.019	1	02/21/17	03/02/17	KWG1701417	
3-Nitrotoluene	ND	U	0.081	0.041	0.019	1	02/21/17	03/02/17	KWG1701417	
Nitroglycerin	ND	U	0.21	0.21	0.059	1	02/21/17	03/02/17	KWG1701417	
Pentaerythritol Tetranitrate	ND	U	0.21	0.21	0.12	1	02/21/17	03/02/17	KWG1701417	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1-Chloro-3-nitrobenzene	57	34-135	03/02/17	Acceptable

Comments:

Analytical Results

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/08/2017
Sample Matrix:	Soil	**Date Received:**	02/10/2017

Nitroaromatics and Nitramines (Explosives)

Sample Name:	FTBL-SB-02-0-0.5-020817	**Units:**	mg/Kg
Lab Code:	K1701351-003	**Basis:**	Dry
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8330B		

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
HMX	ND	U	0.041	0.021	0.0065	1	02/21/17	03/02/17	KWG1701417	
RDX	ND	U	0.21	0.21	0.050	1	02/21/17	03/02/17	KWG1701417	
1,3,5-Trinitrobenzene	ND	U	0.081	0.081	0.028	1	02/21/17	03/02/17	KWG1701417	
1,3-Dinitrobenzene	ND	U	0.041	0.041	0.013	1	02/21/17	03/02/17	KWG1701417	
TETRYL	ND	U	0.081	0.081	0.042	1	02/21/17	03/02/17	KWG1701417	
Nitrobenzene	ND	U	0.081	0.021	0.0045	1	02/21/17	03/02/17	KWG1701417	
4-Amino-2,6-dinitrotoluene	**0.011**	JN	0.081	0.021	0.0052	1	02/21/17	03/02/17	KWG1701417	
2-Amino-4,6-dinitrotoluene	ND	U	0.041	0.021	0.0076	1	02/21/17	03/02/17	KWG1701417	
2,4,6-Trinitrotoluene	ND	U	0.081	0.041	0.019	1	02/21/17	03/02/17	KWG1701417	
2,6-Dinitrotoluene	ND	U	0.041	0.021	0.0052	1	02/21/17	03/02/17	KWG1701417	
2,4-Dinitrotoluene	ND	U	0.081	0.081	0.042	1	02/21/17	03/02/17	KWG1701417	
2-Nitrotoluene	ND	U	0.081	0.021	0.0072	1	02/21/17	03/02/17	KWG1701417	
4-Nitrotoluene	ND	U	0.081	0.041	0.019	1	02/21/17	03/02/17	KWG1701417	
3-Nitrotoluene	ND	U	0.081	0.041	0.019	1	02/21/17	03/02/17	KWG1701417	
Nitroglycerin	ND	U	0.21	0.21	0.059	1	02/21/17	03/02/17	KWG1701417	
Pentaerythritol Tetranitrate	ND	U	0.21	0.21	0.12	1	02/21/17	03/02/17	KWG1701417	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1-Chloro-3-nitrobenzene	88	34-135	03/02/17	Acceptable

Comments:

Analytical Results

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/08/2017
Sample Matrix:	Soil	**Date Received:**	02/10/2017

Nitroaromatics and Nitramines (Explosives)

Sample Name:	FTBL-SB-02-0.5-2-020817	**Units:**	mg/Kg
Lab Code:	K1701351-004	**Basis:**	Dry
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8330B		

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
HMX	ND	U	0.040	0.020	0.0064	1	02/21/17	03/02/17	KWG1701417	
RDX	ND	U	0.20	0.20	0.049	1	02/21/17	03/02/17	KWG1701417	
1,3,5-Trinitrobenzene	ND	U	0.080	0.080	0.027	1	02/21/17	03/02/17	KWG1701417	
1,3-Dinitrobenzene	ND	U	0.040	0.040	0.012	1	02/21/17	03/02/17	KWG1701417	
TETRYL	ND	U	0.080	0.080	0.041	1	02/21/17	03/02/17	KWG1701417	
Nitrobenzene	ND	U	0.079	0.020	0.0044	1	02/21/17	03/02/17	KWG1701417	
4-Amino-2,6-dinitrotoluene	ND	U	0.079	0.020	0.0051	1	02/21/17	03/02/17	KWG1701417	
2-Amino-4,6-dinitrotoluene	ND	U	0.040	0.020	0.0075	1	02/21/17	03/02/17	KWG1701417	
2,4,6-Trinitrotoluene	ND	U	0.079	0.040	0.018	1	02/21/17	03/02/17	KWG1701417	
2,6-Dinitrotoluene	ND	U	0.040	0.020	0.0051	1	02/21/17	03/02/17	KWG1701417	
2,4-Dinitrotoluene	ND	U	0.080	0.080	0.041	1	02/21/17	03/02/17	KWG1701417	
2-Nitrotoluene	ND	U	0.079	0.020	0.0071	1	02/21/17	03/02/17	KWG1701417	
4-Nitrotoluene	ND	U	0.079	0.040	0.018	1	02/21/17	03/02/17	KWG1701417	
3-Nitrotoluene	ND	U	0.079	0.040	0.018	1	02/21/17	03/02/17	KWG1701417	
Nitroglycerin	ND	U	0.20	0.20	0.058	1	02/21/17	03/02/17	KWG1701417	
Pentaerythritol Tetranitrate	ND	U	0.20	0.20	0.11	1	02/21/17	03/02/17	KWG1701417	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1-Chloro-3-nitrobenzene	83	34-135	03/02/17	Acceptable

Comments:

Analytical Results

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/08/2017
Sample Matrix:	Soil	**Date Received:**	02/10/2017

Nitroaromatics and Nitramines (Explosives)

Sample Name:	FTBL-SB-02-4-5.5-020817	**Units:**	mg/Kg
Lab Code:	K1701351-005	**Basis:**	Dry
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8330B		

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
HMX	ND	U	0.041	0.021	0.0065	1	02/21/17	03/02/17	KWG1701417	
RDX	ND	U	0.21	0.21	0.050	1	02/21/17	03/02/17	KWG1701417	
1,3,5-Trinitrobenzene	ND	U	0.081	0.081	0.028	1	02/21/17	03/02/17	KWG1701417	
1,3-Dinitrobenzene	ND	U	0.041	0.041	0.013	1	02/21/17	03/02/17	KWG1701417	
TETRYL	ND	U	0.081	0.081	0.042	1	02/21/17	03/02/17	KWG1701417	
Nitrobenzene	ND	U	0.081	0.021	0.0045	1	02/21/17	03/02/17	KWG1701417	
4-Amino-2,6-dinitrotoluene	ND	U	0.081	0.021	0.0052	1	02/21/17	03/02/17	KWG1701417	
2-Amino-4,6-dinitrotoluene	ND	U	0.041	0.021	0.0076	1	02/21/17	03/02/17	KWG1701417	
2,4,6-Trinitrotoluene	**0.029**	JN	0.081	0.041	0.019	1	02/21/17	03/02/17	KWG1701417	
2,6-Dinitrotoluene	ND	U	0.041	0.021	0.0052	1	02/21/17	03/02/17	KWG1701417	
2,4-Dinitrotoluene	**0.057**	JN	0.081	0.081	0.042	1	02/21/17	03/02/17	KWG1701417	
2-Nitrotoluene	ND	U	0.081	0.021	0.0072	1	02/21/17	03/02/17	KWG1701417	
4-Nitrotoluene	ND	U	0.081	0.041	0.019	1	02/21/17	03/02/17	KWG1701417	
3-Nitrotoluene	ND	U	0.081	0.041	0.019	1	02/21/17	03/02/17	KWG1701417	
Nitroglycerin	ND	U	0.21	0.21	0.059	1	02/21/17	03/02/17	KWG1701417	
Pentaerythritol Tetranitrate	ND	U	0.21	0.21	0.12	1	02/21/17	03/02/17	KWG1701417	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1-Chloro-3-nitrobenzene	82	34-135	03/02/17	Acceptable

Comments:

Analytical Results

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/07/2017
Sample Matrix:	Soil	**Date Received:**	02/10/2017

Nitroaromatics and Nitramines (Explosives)

Sample Name:	FTBL-SB-01D-0-0.5-020717	**Units:**	mg/Kg
Lab Code:	K1701351-006	**Basis:**	Dry
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8330B		

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
HMX	ND	U	0.040	0.020	0.0064	1	02/21/17	03/02/17	KWG1701417	
RDX	ND	U	0.20	0.20	0.049	1	02/21/17	03/02/17	KWG1701417	
1,3,5-Trinitrobenzene	ND	U	0.080	0.080	0.027	1	02/21/17	03/02/17	KWG1701417	
1,3-Dinitrobenzene	ND	U	0.040	0.040	0.012	1	02/21/17	03/02/17	KWG1701417	
TETRYL	ND	U	0.080	0.080	0.041	1	02/21/17	03/02/17	KWG1701417	
Nitrobenzene	**0.011**	JN	0.079	0.020	0.0044	1	02/21/17	03/02/17	KWG1701417	
4-Amino-2,6-dinitrotoluene	ND	U	0.079	0.020	0.0051	1	02/21/17	03/02/17	KWG1701417	
2-Amino-4,6-dinitrotoluene	ND	U	0.040	0.020	0.0075	1	02/21/17	03/02/17	KWG1701417	
2,4,6-Trinitrotoluene	ND	U	0.079	0.040	0.018	1	02/21/17	03/02/17	KWG1701417	
2,6-Dinitrotoluene	ND	U	0.040	0.020	0.0051	1	02/21/17	03/02/17	KWG1701417	
2,4-Dinitrotoluene	ND	U	0.080	0.080	0.041	1	02/21/17	03/02/17	KWG1701417	
2-Nitrotoluene	ND	U	0.079	0.020	0.0071	1	02/21/17	03/02/17	KWG1701417	
4-Nitrotoluene	ND	U	0.079	0.040	0.018	1	02/21/17	03/02/17	KWG1701417	
3-Nitrotoluene	ND	U	0.079	0.040	0.018	1	02/21/17	03/02/17	KWG1701417	
Nitroglycerin	ND	U	0.20	0.20	0.058	1	02/21/17	03/02/17	KWG1701417	
Pentaerythritol Tetranitrate	ND	U	0.20	0.20	0.11	1	02/21/17	03/02/17	KWG1701417	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1-Chloro-3-nitrobenzene	82	34-135	03/02/17	Acceptable

Comments:

Analytical Results

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/07/2017
Sample Matrix:	Soil	**Date Received:**	02/10/2017

Nitroaromatics and Nitramines (Explosives)

Sample Name:	FTBL-SB-01D-0.5-2-020717	**Units:**	mg/Kg
Lab Code:	K1701351-007	**Basis:**	Dry
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8330B		

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
HMX	ND	U	0.040	0.020	0.0064	1	02/21/17	03/02/17	KWG1701417	
RDX	ND	U	0.20	0.20	0.049	1	02/21/17	03/02/17	KWG1701417	
1,3,5-Trinitrobenzene	ND	U	0.080	0.080	0.027	1	02/21/17	03/02/17	KWG1701417	
1,3-Dinitrobenzene	ND	U	0.040	0.040	0.012	1	02/21/17	03/02/17	KWG1701417	
TETRYL	ND	U	0.080	0.080	0.041	1	02/21/17	03/02/17	KWG1701417	
Nitrobenzene	ND	U	0.080	0.020	0.0044	1	02/21/17	03/02/17	KWG1701417	
4-Amino-2,6-dinitrotoluene	ND	U	0.080	0.020	0.0051	1	02/21/17	03/02/17	KWG1701417	
2-Amino-4,6-dinitrotoluene	ND	U	0.040	0.020	0.0075	1	02/21/17	03/02/17	KWG1701417	
2,4,6-Trinitrotoluene	ND	U	0.080	0.040	0.018	1	02/21/17	03/02/17	KWG1701417	
2,6-Dinitrotoluene	ND	U	0.040	0.020	0.0051	1	02/21/17	03/02/17	KWG1701417	
2,4-Dinitrotoluene	ND	U	0.080	0.080	0.041	1	02/21/17	03/02/17	KWG1701417	
2-Nitrotoluene	ND	U	0.080	0.020	0.0071	1	02/21/17	03/02/17	KWG1701417	
4-Nitrotoluene	ND	U	0.080	0.040	0.018	1	02/21/17	03/02/17	KWG1701417	
3-Nitrotoluene	ND	U	0.080	0.040	0.018	1	02/21/17	03/02/17	KWG1701417	
Nitroglycerin	ND	U	0.20	0.20	0.058	1	02/21/17	03/02/17	KWG1701417	
Pentaerythritol Tetranitrate	ND	U	0.20	0.20	0.11	1	02/21/17	03/02/17	KWG1701417	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1-Chloro-3-nitrobenzene	82	34-135	03/02/17	Acceptable

Comments:

Analytical Results

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/07/2017
Sample Matrix:	Soil	**Date Received:**	02/10/2017

Nitroaromatics and Nitramines (Explosives)

Sample Name:	FTBL-SB-01D-4-6-020717	**Units:**	mg/Kg
Lab Code:	K1701351-008	**Basis:**	Dry
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8330B		

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
HMX	ND	U	0.040	0.020	0.0064	1	02/21/17	03/02/17	KWG1701417	
RDX	ND	U	0.20	0.20	0.049	1	02/21/17	03/02/17	KWG1701417	
1,3,5-Trinitrobenzene	ND	U	0.080	0.080	0.027	1	02/21/17	03/02/17	KWG1701417	
1,3-Dinitrobenzene	ND	U	0.040	0.040	0.012	1	02/21/17	03/02/17	KWG1701417	
TETRYL	ND	U	0.080	0.080	0.041	1	02/21/17	03/02/17	KWG1701417	
Nitrobenzene	ND	U	0.080	0.020	0.0044	1	02/21/17	03/02/17	KWG1701417	
4-Amino-2,6-dinitrotoluene	ND	U	0.080	0.020	0.0051	1	02/21/17	03/02/17	KWG1701417	
2-Amino-4,6-dinitrotoluene	ND	U	0.040	0.020	0.0075	1	02/21/17	03/02/17	KWG1701417	
2,4,6-Trinitrotoluene	ND	U	0.080	0.040	0.018	1	02/21/17	03/02/17	KWG1701417	
2,6-Dinitrotoluene	ND	U	0.040	0.020	0.0051	1	02/21/17	03/02/17	KWG1701417	
2,4-Dinitrotoluene	ND	U	0.080	0.080	0.041	1	02/21/17	03/02/17	KWG1701417	
2-Nitrotoluene	ND	U	0.080	0.020	0.0071	1	02/21/17	03/02/17	KWG1701417	
4-Nitrotoluene	ND	U	0.080	0.040	0.018	1	02/21/17	03/02/17	KWG1701417	
3-Nitrotoluene	ND	U	0.080	0.040	0.018	1	02/21/17	03/02/17	KWG1701417	
Nitroglycerin	ND	U	0.20	0.20	0.058	1	02/21/17	03/02/17	KWG1701417	
Pentaerythritol Tetranitrate	ND	U	0.20	0.20	0.11	1	02/21/17	03/02/17	KWG1701417	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1-Chloro-3-nitrobenzene	83	34-135	03/02/17	Acceptable

Comments:

Analytical Results

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/07/2017
Sample Matrix:	Soil	**Date Received:**	02/10/2017

Nitroaromatics and Nitramines (Explosives)

Sample Name:	FTBL-SB-01-0-0.5-020717	**Units:**	mg/Kg
Lab Code:	K1701351-009	**Basis:**	Dry
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8330B		

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
HMX	ND	U	0.040	0.020	0.0064	1	02/21/17	03/02/17	KWG1701417	
RDX	ND	U	0.20	0.20	0.049	1	02/21/17	03/02/17	KWG1701417	
1,3,5-Trinitrobenzene	ND	U	0.080	0.080	0.027	1	02/21/17	03/02/17	KWG1701417	
1,3-Dinitrobenzene	ND	U	0.040	0.040	0.012	1	02/21/17	03/02/17	KWG1701417	
TETRYL	ND	U	0.080	0.080	0.041	1	02/21/17	03/02/17	KWG1701417	
Nitrobenzene	**0.010**	JN	0.080	0.020	0.0044	1	02/21/17	03/02/17	KWG1701417	
4-Amino-2,6-dinitrotoluene	ND	U	0.080	0.020	0.0051	1	02/21/17	03/02/17	KWG1701417	
2-Amino-4,6-dinitrotoluene	ND	U	0.040	0.020	0.0075	1	02/21/17	03/02/17	KWG1701417	
2,4,6-Trinitrotoluene	ND	U	0.080	0.040	0.018	1	02/21/17	03/02/17	KWG1701417	
2,6-Dinitrotoluene	ND	U	0.040	0.020	0.0051	1	02/21/17	03/02/17	KWG1701417	
2,4-Dinitrotoluene	ND	U	0.080	0.080	0.041	1	02/21/17	03/02/17	KWG1701417	
2-Nitrotoluene	ND	U	0.080	0.020	0.0071	1	02/21/17	03/02/17	KWG1701417	
4-Nitrotoluene	ND	U	0.080	0.040	0.018	1	02/21/17	03/02/17	KWG1701417	
3-Nitrotoluene	ND	U	0.080	0.040	0.018	1	02/21/17	03/02/17	KWG1701417	
Nitroglycerin	ND	U	0.20	0.20	0.058	1	02/21/17	03/02/17	KWG1701417	
Pentaerythritol Tetranitrate	ND	U	0.20	0.20	0.11	1	02/21/17	03/02/17	KWG1701417	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1-Chloro-3-nitrobenzene	82	34-135	03/02/17	Acceptable

Comments:

Analytical Results

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/07/2017
Sample Matrix:	Soil	**Date Received:**	02/10/2017

Nitroaromatics and Nitramines (Explosives)

Sample Name:	FTBL-SB-01-0.5-2-020717	**Units:**	mg/Kg
Lab Code:	K1701351-010	**Basis:**	Dry
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8330B		

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
HMX	ND	U	0.041	0.021	0.0065	1	02/21/17	03/02/17	KWG1701417	
RDX	ND	U	0.21	0.21	0.050	1	02/21/17	03/02/17	KWG1701417	
1,3,5-Trinitrobenzene	ND	U	0.081	0.081	0.028	1	02/21/17	03/02/17	KWG1701417	
1,3-Dinitrobenzene	ND	U	0.041	0.041	0.013	1	02/21/17	03/02/17	KWG1701417	
TETRYL	ND	U	0.081	0.081	0.042	1	02/21/17	03/02/17	KWG1701417	
Nitrobenzene	ND	U	0.081	0.021	0.0045	1	02/21/17	03/02/17	KWG1701417	
4-Amino-2,6-dinitrotoluene	ND	U	0.081	0.021	0.0052	1	02/21/17	03/02/17	KWG1701417	
2-Amino-4,6-dinitrotoluene	ND	U	0.041	0.021	0.0076	1	02/21/17	03/02/17	KWG1701417	
2,4,6-Trinitrotoluene	ND	U	0.081	0.041	0.019	1	02/21/17	03/02/17	KWG1701417	
2,6-Dinitrotoluene	ND	U	0.041	0.021	0.0052	1	02/21/17	03/02/17	KWG1701417	
2,4-Dinitrotoluene	ND	U	0.081	0.081	0.042	1	02/21/17	03/02/17	KWG1701417	
2-Nitrotoluene	ND	U	0.081	0.021	0.0072	1	02/21/17	03/02/17	KWG1701417	
4-Nitrotoluene	ND	U	0.081	0.041	0.019	1	02/21/17	03/02/17	KWG1701417	
3-Nitrotoluene	ND	U	0.081	0.041	0.019	1	02/21/17	03/02/17	KWG1701417	
Nitroglycerin	ND	U	0.21	0.21	0.059	1	02/21/17	03/02/17	KWG1701417	
Pentaerythritol Tetranitrate	ND	U	0.21	0.21	0.12	1	02/21/17	03/02/17	KWG1701417	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1-Chloro-3-nitrobenzene	86	34-135	03/02/17	Acceptable

Comments:

Analytical Results

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/07/2017
Sample Matrix:	Soil	**Date Received:**	02/10/2017

Nitroaromatics and Nitramines (Explosives)

Sample Name:	FTBL-SB-01-4-6-020717	**Units:**	mg/Kg
Lab Code:	K1701351-011	**Basis:**	Dry
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8330B		

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
HMX	ND	U	0.040	0.020	0.0064	1	02/21/17	03/03/17	KWG1701417	
RDX	ND	U	0.20	0.20	0.049	1	02/21/17	03/03/17	KWG1701417	
1,3,5-Trinitrobenzene	ND	U	0.080	0.080	0.027	1	02/21/17	03/03/17	KWG1701417	
1,3-Dinitrobenzene	ND	U	0.040	0.040	0.012	1	02/21/17	03/03/17	KWG1701417	
TETRYL	ND	U	0.080	0.080	0.041	1	02/21/17	03/03/17	KWG1701417	
Nitrobenzene	ND	U	0.080	0.020	0.0044	1	02/21/17	03/03/17	KWG1701417	
4-Amino-2,6-dinitrotoluene	ND	U	0.080	0.020	0.0051	1	02/21/17	03/03/17	KWG1701417	
2-Amino-4,6-dinitrotoluene	ND	U	0.040	0.020	0.0075	1	02/21/17	03/03/17	KWG1701417	
2,4,6-Trinitrotoluene	ND	U	0.080	0.040	0.018	1	02/21/17	03/03/17	KWG1701417	
2,6-Dinitrotoluene	ND	U	0.040	0.020	0.0051	1	02/21/17	03/03/17	KWG1701417	
2,4-Dinitrotoluene	ND	U	0.080	0.080	0.041	1	02/21/17	03/03/17	KWG1701417	
2-Nitrotoluene	ND	U	0.080	0.020	0.0071	1	02/21/17	03/03/17	KWG1701417	
4-Nitrotoluene	ND	U	0.080	0.040	0.018	1	02/21/17	03/03/17	KWG1701417	
3-Nitrotoluene	ND	U	0.080	0.040	0.018	1	02/21/17	03/03/17	KWG1701417	
Nitroglycerin	ND	U	0.20	0.20	0.058	1	02/21/17	03/03/17	KWG1701417	
Pentaerythritol Tetranitrate	ND	U	0.20	0.20	0.11	1	02/21/17	03/03/17	KWG1701417	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1-Chloro-3-nitrobenzene	80	34-135	03/03/17	Acceptable

Comments:

Analytical Results

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/08/2017
Sample Matrix:	Soil	**Date Received:**	02/10/2017

Nitroaromatics and Nitramines (Explosives)

Sample Name:	FTBL-SB-03-0-0.5-020817	**Units:**	mg/Kg
Lab Code:	K1701351-012	**Basis:**	Dry
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8330B		

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
HMX	ND	U	0.040	0.020	0.0064	1	02/21/17	03/03/17	KWG1701417	
RDX	ND	U	0.20	0.20	0.049	1	02/21/17	03/03/17	KWG1701417	
1,3,5-Trinitrobenzene	ND	U	0.080	0.080	0.027	1	02/21/17	03/03/17	KWG1701417	
1,3-Dinitrobenzene	ND	U	0.040	0.040	0.012	1	02/21/17	03/03/17	KWG1701417	
TETRYL	ND	U	0.080	0.080	0.041	1	02/21/17	03/03/17	KWG1701417	
Nitrobenzene	ND	U	0.080	0.020	0.0044	1	02/21/17	03/03/17	KWG1701417	
4-Amino-2,6-dinitrotoluene	ND	U	0.080	0.020	0.0051	1	02/21/17	03/04/17	KWG1701417	
2-Amino-4,6-dinitrotoluene	ND	U	0.040	0.020	0.0075	1	02/21/17	03/03/17	KWG1701417	
2,4,6-Trinitrotoluene	ND	U	0.080	0.040	0.018	1	02/21/17	03/03/17	KWG1701417	
2,6-Dinitrotoluene	ND	U	0.040	0.020	0.0051	1	02/21/17	03/03/17	KWG1701417	
2,4-Dinitrotoluene	ND	U	0.080	0.080	0.041	1	02/21/17	03/03/17	KWG1701417	
2-Nitrotoluene	ND	U	0.080	0.020	0.0071	1	02/21/17	03/03/17	KWG1701417	
4-Nitrotoluene	ND	U	0.080	0.040	0.018	1	02/21/17	03/03/17	KWG1701417	
3-Nitrotoluene	**0.019**	JN	0.080	0.040	0.018	1	02/21/17	03/03/17	KWG1701417	
Nitroglycerin	**2.2**		0.20	0.20	0.058	1	02/21/17	03/03/17	KWG1701417	
Pentaerythritol Tetranitrate	ND	U	0.20	0.20	0.11	1	02/21/17	03/04/17	KWG1701417	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1-Chloro-3-nitrobenzene	84	34-135	03/03/17	Acceptable

Comments:

Analytical Results

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/08/2017
Sample Matrix:	Soil	**Date Received:**	02/10/2017

Nitroaromatics and Nitramines (Explosives)

Sample Name:	FTBL-SB-03-6-8-020817	**Units:**	mg/Kg
Lab Code:	K1701351-013	**Basis:**	Dry
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8330B		

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
HMX	ND	U	0.041	0.021	0.0065	1	02/21/17	03/03/17	KWG1701417	
RDX	**0.074**	JC	0.21	0.21	0.050	1	02/21/17	03/03/17	KWG1701417	
1,3,5-Trinitrobenzene	ND	U	0.081	0.081	0.028	1	02/21/17	03/03/17	KWG1701417	
1,3-Dinitrobenzene	ND	U	0.041	0.041	0.013	1	02/21/17	03/03/17	KWG1701417	
TETRYL	ND	U	0.081	0.081	0.042	1	02/21/17	03/03/17	KWG1701417	
Nitrobenzene	ND	U	0.081	0.021	0.0045	1	02/21/17	03/03/17	KWG1701417	
4-Amino-2,6-dinitrotoluene	ND	U	0.081	0.021	0.0052	1	02/21/17	03/03/17	KWG1701417	
2-Amino-4,6-dinitrotoluene	ND	U	0.041	0.021	0.0076	1	02/21/17	03/03/17	KWG1701417	
2,4,6-Trinitrotoluene	ND	U	0.081	0.041	0.019	1	02/21/17	03/03/17	KWG1701417	
2,6-Dinitrotoluene	ND	U	0.041	0.021	0.0052	1	02/21/17	03/03/17	KWG1701417	
2,4-Dinitrotoluene	ND	U	0.081	0.081	0.042	1	02/21/17	03/03/17	KWG1701417	
2-Nitrotoluene	ND	U	0.081	0.021	0.0072	1	02/21/17	03/03/17	KWG1701417	
4-Nitrotoluene	ND	U	0.081	0.041	0.019	1	02/21/17	03/03/17	KWG1701417	
3-Nitrotoluene	**0.020**	JN	0.081	0.041	0.019	1	02/21/17	03/03/17	KWG1701417	
Nitroglycerin	ND	U	0.21	0.21	0.059	1	02/21/17	03/03/17	KWG1701417	
Pentaerythritol Tetranitrate	ND	U	0.21	0.21	0.12	1	02/21/17	03/03/17	KWG1701417	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1-Chloro-3-nitrobenzene	87	34-135	03/03/17	Acceptable

Comments:

Analytical Results

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/09/2017
Sample Matrix:	Soil	**Date Received:**	02/10/2017

Nitroaromatics and Nitramines (Explosives)

Sample Name:	FTBL-SB03-28-30-020917	**Units:**	mg/Kg
Lab Code:	K1701351-015	**Basis:**	Dry
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8330B		

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
HMX	ND	U	0.041	0.021	0.0066	1	02/21/17	03/03/17	KWG1701417	
RDX	ND	U	0.21	0.21	0.050	1	02/21/17	03/03/17	KWG1701417	
1,3,5-Trinitrobenzene	ND	U	0.082	0.082	0.028	1	02/21/17	03/03/17	KWG1701417	
1,3-Dinitrobenzene	ND	U	0.041	0.041	0.013	1	02/21/17	03/03/17	KWG1701417	
TETRYL	ND	U	0.082	0.082	0.042	1	02/21/17	03/03/17	KWG1701417	
Nitrobenzene	ND	U	0.082	0.021	0.0045	1	02/21/17	03/03/17	KWG1701417	
4-Amino-2,6-dinitrotoluene	ND	U	0.082	0.021	0.0052	1	02/21/17	03/03/17	KWG1701417	
2-Amino-4,6-dinitrotoluene	ND	U	0.041	0.021	0.0077	1	02/21/17	03/03/17	KWG1701417	
2,4,6-Trinitrotoluene	ND	U	0.082	0.041	0.019	1	02/21/17	03/03/17	KWG1701417	
2,6-Dinitrotoluene	ND	U	0.041	0.021	0.0052	1	02/21/17	03/03/17	KWG1701417	
2,4-Dinitrotoluene	ND	U	0.082	0.082	0.042	1	02/21/17	03/03/17	KWG1701417	
2-Nitrotoluene	ND	U	0.082	0.021	0.0073	1	02/21/17	03/03/17	KWG1701417	
4-Nitrotoluene	ND	U	0.082	0.041	0.019	1	02/21/17	03/03/17	KWG1701417	
3-Nitrotoluene	ND	U	0.082	0.041	0.019	1	02/21/17	03/03/17	KWG1701417	
Nitroglycerin	**0.092**	JN	0.21	0.21	0.060	1	02/21/17	03/03/17	KWG1701417	*
Pentaerythritol Tetranitrate	ND	U	0.21	0.21	0.12	1	02/21/17	03/03/17	KWG1701417	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1-Chloro-3-nitrobenzene	84	34-135	03/03/17	Acceptable

Comments:

Analytical Results

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA

Nitroaromatics and Nitramines (Explosives)

Sample Name:	Storage Blank	**Units:**	mg/Kg
Lab Code:	KWG1701417-6	**Basis:**	Dry
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8330B		

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
HMX	ND	U	0.039	0.020	0.0064	1	02/21/17	03/02/17	KWG1701417	
RDX	ND	U	0.20	0.20	0.049	1	02/21/17	03/02/17	KWG1701417	
1,3,5-Trinitrobenzene	ND	U	0.080	0.080	0.027	1	02/21/17	03/02/17	KWG1701417	
1,3-Dinitrobenzene	ND	U	0.040	0.040	0.012	1	02/21/17	03/02/17	KWG1701417	
TETRYL	ND	U	0.080	0.080	0.041	1	02/21/17	03/02/17	KWG1701417	
Nitrobenzene	ND	U	0.078	0.020	0.0044	1	02/21/17	03/02/17	KWG1701417	
4-Amino-2,6-dinitrotoluene	ND	U	0.078	0.020	0.0051	1	02/21/17	03/02/17	KWG1701417	
2-Amino-4,6-dinitrotoluene	ND	U	0.039	0.020	0.0075	1	02/21/17	03/02/17	KWG1701417	
2,4,6-Trinitrotoluene	ND	U	0.078	0.040	0.018	1	02/21/17	03/02/17	KWG1701417	
2,6-Dinitrotoluene	ND	U	0.039	0.020	0.0051	1	02/21/17	03/02/17	KWG1701417	
2,4-Dinitrotoluene	ND	U	0.080	0.080	0.041	1	02/21/17	03/02/17	KWG1701417	
2-Nitrotoluene	ND	U	0.078	0.020	0.0071	1	02/21/17	03/02/17	KWG1701417	
4-Nitrotoluene	ND	U	0.078	0.040	0.018	1	02/21/17	03/02/17	KWG1701417	
3-Nitrotoluene	ND	U	0.078	0.040	0.018	1	02/21/17	03/02/17	KWG1701417	
Nitroglycerin	ND	U	0.20	0.20	0.058	1	02/21/17	03/02/17	KWG1701417	
Pentaerythritol Tetranitrate	ND	U	0.20	0.20	0.11	1	02/21/17	03/02/17	KWG1701417	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1-Chloro-3-nitrobenzene	76	34-135	03/02/17	Acceptable

Comments:

Analytical Results

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA

Nitroaromatics and Nitramines (Explosives)

Sample Name:	Storage Blank	**Units:**	mg/Kg
Lab Code:	KWG1701417-7	**Basis:**	Dry
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8330B		

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
HMX	ND	U	0.040	0.020	0.0064	1	02/21/17	03/02/17	KWG1701417	
RDX	ND	U	0.20	0.20	0.049	1	02/21/17	03/02/17	KWG1701417	
1,3,5-Trinitrobenzene	ND	U	0.080	0.080	0.027	1	02/21/17	03/02/17	KWG1701417	
1,3-Dinitrobenzene	ND	U	0.040	0.040	0.012	1	02/21/17	03/02/17	KWG1701417	
TETRYL	ND	U	0.080	0.080	0.041	1	02/21/17	03/02/17	KWG1701417	
Nitrobenzene	ND	U	0.080	0.020	0.0044	1	02/21/17	03/02/17	KWG1701417	
4-Amino-2,6-dinitrotoluene	ND	U	0.080	0.020	0.0051	1	02/21/17	03/02/17	KWG1701417	
2-Amino-4,6-dinitrotoluene	ND	U	0.040	0.020	0.0075	1	02/21/17	03/02/17	KWG1701417	
2,4,6-Trinitrotoluene	ND	U	0.080	0.040	0.018	1	02/21/17	03/02/17	KWG1701417	
2,6-Dinitrotoluene	ND	U	0.040	0.020	0.0051	1	02/21/17	03/02/17	KWG1701417	
2,4-Dinitrotoluene	ND	U	0.080	0.080	0.041	1	02/21/17	03/02/17	KWG1701417	
2-Nitrotoluene	ND	U	0.080	0.020	0.0071	1	02/21/17	03/02/17	KWG1701417	
4-Nitrotoluene	ND	U	0.080	0.040	0.018	1	02/21/17	03/02/17	KWG1701417	
3-Nitrotoluene	ND	U	0.080	0.040	0.018	1	02/21/17	03/02/17	KWG1701417	
Nitroglycerin	**0.070**	JN	0.20	0.20	0.058	1	02/21/17	03/02/17	KWG1701417	
Pentaerythritol Tetranitrate	ND	U	0.20	0.20	0.11	1	02/21/17	03/02/17	KWG1701417	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1-Chloro-3-nitrobenzene	94	34-135	03/02/17	Acceptable

Comments:

Analytical Results

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA

Nitroaromatics and Nitramines (Explosives)

Sample Name:	Method Blank	**Units:**	mg/Kg
Lab Code:	KWG1701417-9	**Basis:**	Dry
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8330B		

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
HMX	ND	U	0.040	0.020	0.0064	1	02/21/17	03/02/17	KWG1701417	
RDX	ND	U	0.20	0.20	0.049	1	02/21/17	03/02/17	KWG1701417	
1,3,5-Trinitrobenzene	ND	U	0.080	0.080	0.027	1	02/21/17	03/02/17	KWG1701417	
1,3-Dinitrobenzene	ND	U	0.040	0.040	0.012	1	02/21/17	03/02/17	KWG1701417	
TETRYL	ND	U	0.080	0.080	0.041	1	02/21/17	03/02/17	KWG1701417	
Nitrobenzene	ND	U	0.080	0.020	0.0044	1	02/21/17	03/02/17	KWG1701417	
4-Amino-2,6-dinitrotoluene	ND	U	0.080	0.020	0.0051	1	02/21/17	03/02/17	KWG1701417	
2-Amino-4,6-dinitrotoluene	ND	U	0.040	0.020	0.0075	1	02/21/17	03/02/17	KWG1701417	
2,4,6-Trinitrotoluene	ND	U	0.080	0.040	0.018	1	02/21/17	03/02/17	KWG1701417	
2,6-Dinitrotoluene	ND	U	0.040	0.020	0.0051	1	02/21/17	03/02/17	KWG1701417	
2,4-Dinitrotoluene	ND	U	0.080	0.080	0.041	1	02/21/17	03/02/17	KWG1701417	
2-Nitrotoluene	ND	U	0.080	0.020	0.0071	1	02/21/17	03/02/17	KWG1701417	
4-Nitrotoluene	ND	U	0.080	0.040	0.018	1	02/21/17	03/02/17	KWG1701417	
3-Nitrotoluene	ND	U	0.080	0.040	0.018	1	02/21/17	03/02/17	KWG1701417	
Nitroglycerin	ND	U	0.20	0.20	0.058	1	02/21/17	03/02/17	KWG1701417	
Pentaerythritol Tetranitrate	ND	U	0.20	0.20	0.11	1	02/21/17	03/02/17	KWG1701417	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1-Chloro-3-nitrobenzene	82	34-135	03/02/17	Acceptable

Comments:

Client: ARCADIS U.S., Inc. **Service Request:** K1701351
Project: Castner Range/06261038.0001.00400
Sample Matrix: Water

Surrogate Recovery Summary
Nitroaromatics and Nitramines (Explosives)

Extraction Method: METHOD **Units:** Percent
Analysis Method: 8330B **Level:** Low

Sample Name	Lab Code	Sur1
EB-020717	K1701351-016	72
EB-020817	K1701351-017	71
EB-020917	K1701351-018	66
Method Blank	KWG1701217-3	71
Lab Control Sample	KWG1701217-1	68
Duplicate Lab Control Sample	KWG1701217-2	78

Surrogate Recovery Control Limits (%)

Sur1 = 1-Chloro-3-nitrobenzene 23-98

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Client: ARCADIS U.S., Inc. **Service Request:** K1701351
Project: Castner Range/06261038.0001.00400
Sample Matrix: Soil

Surrogate Recovery Summary
Nitroaromatics and Nitramines (Explosives)

Extraction Method: METHOD **Units:** Percent
Analysis Method: 8330B **Level:** Low

Sample Name	Lab Code	Sur1
FD-020717	K1701351-001	48
FD-020817	K1701351-002	57
FTBL-SB-02-0-0.5-020817	K1701351-003	88
FTBL-SB-02-0.5-2-020817	K1701351-004	83
FTBL-SB-02-4-5.5-020817	K1701351-005	82
FTBL-SB-01D-0-0.5-020717	K1701351-006	82
FTBL-SB-01D-0.5-2-020717	K1701351-007	82
FTBL-SB-01D-4-6-020717	K1701351-008	83
FTBL-SB-01-0-0.5-020717	K1701351-009	82
FTBL-SB-01-0.5-2-020717	K1701351-010	86
FTBL-SB-01-4-6-020717	K1701351-011	80
FTBL-SB-03-0-0.5-020817	K1701351-012	84
FTBL-SB-03-6-8-020817	K1701351-013	87
FTBL-SB03-28-30-020917	K1701351-015	84
FD-020717DUP	KWG1701417-1	84
FD-020717TRP	KWG1701417-2	83
Storage Blank	KWG1701417-6	76
Storage Blank	KWG1701417-7	94
Method Blank	KWG1701417-9	82
FD-020717MS	KWG1701417-3	88
FD-020717DMS	KWG1701417-4	91
Standard Reference Material	KWG1701417-5	127
Lab Control Sample	KWG1701417-8	83

Surrogate Recovery Control Limits (%)

Sur1 = 1-Chloro-3-nitrobenzene 34-135

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

QA/QC Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Extracted:**	02/21/2017
Sample Matrix:	Soil	**Date Analyzed:**	03/03/2017

Matrix Spike/Duplicate Matrix Spike Summary
Nitroaromatics and Nitramines (Explosives)

Sample Name:	FD-020717	**Units:**	mg/Kg
Lab Code:	K1701351-001	**Basis:**	Dry
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8330B	**Extraction Lot:**	KWG1701417

		FD-020717MS KWG1701417-3 Matrix Spike			FD-020717DMS KWG1701417-4 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
HMX	ND	2.03	2.02	100	2.09	2.01	104	61-130	3	20
RDX	ND	1.81	2.02	90	1.86	2.01	92	16-121	2	20
1,3,5-Trinitrobenzene	ND	2.05	2.02	102	2.12	2.01	105	36-137	3	20
1,3-Dinitrobenzene	ND	2.06	2.02	102	2.10	2.01	104	44-131	2	20
TETRYL	ND	1.95	2.02	97	2.06	2.01	102	62-130	5	20
Nitrobenzene	ND	2.04	2.02	101	2.05	2.01	102	40-117	1	20
4-Amino-2,6-dinitrotoluene	ND	2.01	2.02	100	2.07	2.01	103	66-125	3	20
2-Amino-4,6-dinitrotoluene	ND	2.01	2.02	99	2.05	2.01	102	69-125	2	20
2,4,6-Trinitrotoluene	ND	2.08	2.02	103	2.12	2.01	105	56-137	2	20
2,6-Dinitrotoluene	ND	2.33	2.02	115	2.28	2.01	113	63-129	2	20
2,4-Dinitrotoluene	ND	2.01	2.02	99	2.06	2.01	102	65-133	3	20
2-Nitrotoluene	ND	2.05	2.02	101	2.05	2.01	102	58-119	0	20
4-Nitrotoluene	ND	2.00	2.02	99	2.01	2.01	100	61-121	0	20
3-Nitrotoluene	ND	2.05	2.02	102	2.06	2.01	102	62-117	0	20
Nitroglycerin	ND	2.18	2.02	108	2.20	2.01	109	56-139	1	20
Pentaerythritol Tetranitrate	ND	1.96	2.02	97	2.04	2.01	101	65-127	4	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Extracted:**	02/21/2017
Sample Matrix:	Soil	**Date Analyzed:**	03/03/2017

Triplicate Sample Summary
Nitroaromatics and Nitramines (Explosives)

Sample Name:	FD-020717	**Units:**	mg/Kg
Lab Code:	K1701351-001	**Basis:**	Dry
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8330B	**Extraction Lot:**	KWG1701417

Analyte Name	LOQ	MDL	Sample Result	FD-020717DUP KWG1701417-1 Duplicate Sample Result	FD-020717TRP KWG1701417-2 Triplicate Sample Result	Average	Relative Standard Difference	RSD Limit
HMX	0.041	0.0065	ND	ND	ND	NC	NC	20
RDX	0.21	0.050	ND	ND	ND	NC	NC	20
1,3,5-Trinitrobenzene	0.081	0.028	ND	ND	ND	NC	NC	20
1,3-Dinitrobenzene	0.041	0.013	ND	ND	0.013	NC	NC	20
TETRYL	0.081	0.042	ND	ND	ND	NC	NC	20
Nitrobenzene	0.081	0.0045	ND	ND	ND	NC	NC	20
4-Amino-2,6-dinitrotoluene	0.081	0.0052	ND	ND	ND	NC	NC	20
2-Amino-4,6-dinitrotoluene	0.041	0.0076	ND	ND	ND	NC	NC	20
2,4,6-Trinitrotoluene	0.081	0.019	ND	ND	ND	NC	NC	20
2,6-Dinitrotoluene	0.041	0.0052	ND	ND	ND	NC	NC	20
2,4-Dinitrotoluene	0.081	0.042	ND	ND	ND	NC	NC	20
2-Nitrotoluene	0.081	0.0072	ND	ND	ND	NC	NC	20
4-Nitrotoluene	0.081	0.019	ND	ND	ND	NC	NC	20
3-Nitrotoluene	0.081	0.019	ND	ND	ND	NC	NC	20
Nitroglycerin	0.21	0.059	ND	0.064	ND	NC	NC	20
Pentaerythritol Tetranitrate	0.21	0.12	ND	ND	ND	NC	NC	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Extracted:**	02/14/2017
Sample Matrix:	Water	**Date Analyzed:**	02/15/2017

Lab Control Spike/Duplicate Lab Control Spike Summary
Nitroaromatics and Nitramines (Explosives)

Extraction Method:	METHOD	**Units:**	ug/L
Analysis Method:	8330B	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1701217

	Lab Control Sample KWG1701217-1 Lab Control Spike			Duplicate Lab Control Sample KWG1701217-2 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
HMX	6.85	8.00	86	6.92	8.00	87	11-147	1	20
RDX	6.77	8.00	85	6.81	8.00	85	10-142	1	20
1,3,5-Trinitrobenzene	6.42	8.00	80	6.81	8.00	85	16-137	6	20
1,3-Dinitrobenzene	6.35	8.00	79	6.80	8.00	85	26-125	7	20
3,5-Dinitroaniline	6.23	8.00	78	6.50	8.00	81	30-133	4	20
TETRYL	6.46	8.00	81	6.60	8.00	83	29-123	2	20
Nitrobenzene	6.12	8.00	76	6.61	8.00	83	10-116	8	20
4-Amino-2,6-dinitrotoluene	6.52	8.00	81	6.79	8.00	85	55-117	4	20
2-Amino-4,6-dinitrotoluene	6.33	8.00	79	6.67	8.00	83	54-116	5	20
2,4,6-Trinitrotoluene	6.42	8.00	80	6.85	8.00	86	47-118	6	20
2,6-Dinitrotoluene	6.89	8.00	86	7.50	8.00	94	40-108	9	20
2,4-Dinitrotoluene	6.08	8.00	76	6.58	8.00	82	50-111	8	20
2-Nitrotoluene	5.92	8.00	74	6.61	8.00	83	12-110	11	20
4-Nitrotoluene	5.83	8.00	73	6.51	8.00	81	16-113	11	20
3-Nitrotoluene	6.29	8.00	79	6.65	8.00	83	13-109	6	20
Nitroglycerin	6.69	8.00	84	7.15	8.00	89	15-136	7	20
Pentaerythritol Tetranitrate	6.04	8.00	75	6.15	8.00	77	66-103	2	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Extracted:**	02/21/2017
Sample Matrix:	Soil	**Date Analyzed:**	03/02/2017

Lab Control Spike Summary
Nitroaromatics and Nitramines (Explosives)

Extraction Method:	METHOD	**Units:**	mg/Kg
Analysis Method:	8330B	**Basis:**	Dry
		Level:	Low
		Extraction Lot:	KWG1701417

Standard Reference Material
KWG1701417-5
Lab Control Spike

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
HMX	2.67	1.99	134 *	61-130
RDX	2.45	1.99	123 *	16-121
1,3,5-Trinitrobenzene	2.59	1.99	130	36-137
1,3-Dinitrobenzene	2.65	1.99	133 *	44-131
TETRYL	2.41	1.99	121	62-130
Nitrobenzene	2.65	1.99	133 *	40-117
4-Amino-2,6-dinitrotoluene	2.32	1.99	116	66-125
2-Amino-4,6-dinitrotoluene	2.58	1.99	130 *	69-125
2,4,6-Trinitrotoluene	2.65	1.99	133	56-137
2,6-Dinitrotoluene	2.91	1.99	146 *	63-129
2,4-Dinitrotoluene	2.65	1.99	133	65-133
2-Nitrotoluene	2.68	1.99	135 *	58-119
4-Nitrotoluene	2.61	1.99	131 *	61-121
3-Nitrotoluene	2.70	1.99	136 *	62-117
Nitroglycerin	2.60	1.99	130	56-139
Pentaerythritol Tetranitrate	2.39	1.99	120	65-127

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Extracted:**	02/21/2017
Sample Matrix:	Soil	**Date Analyzed:**	03/02/2017

Lab Control Spike Summary
Nitroaromatics and Nitramines (Explosives)

Extraction Method:	METHOD	**Units:**	mg/Kg
Analysis Method:	8330B	**Basis:**	Dry
		Level:	Low
		Extraction Lot:	KWG1701417

Lab Control Sample
KWG1701417-8
Lab Control Spike

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
HMX	1.92	2.00	96	61-130
RDX	1.81	2.00	91	16-121
1,3,5-Trinitrobenzene	1.91	2.00	95	36-137
1,3-Dinitrobenzene	1.90	2.00	95	44-131
TETRYL	1.92	2.00	96	62-130
Nitrobenzene	1.81	2.00	91	40-117
4-Amino-2,6-dinitrotoluene	1.86	2.00	93	66-125
2-Amino-4,6-dinitrotoluene	1.84	2.00	92	69-125
2,4,6-Trinitrotoluene	1.92	2.00	96	56-137
2,6-Dinitrotoluene	2.15	2.00	108	63-129
2,4-Dinitrotoluene	1.84	2.00	92	65-133
2-Nitrotoluene	1.84	2.00	92	58-119
4-Nitrotoluene	1.82	2.00	91	61-121
3-Nitrotoluene	1.83	2.00	92	62-117
Nitroglycerin	2.02	2.00	101	56-139
Pentaerythritol Tetranitrate	1.61	2.00	80	65-127

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Extracted:**	02/14/2017
Sample Matrix:	Water	**Date Analyzed:**	02/16/2017
		Time Analyzed:	13:42

Method Blank Summary
Nitroaromatics and Nitramines (Explosives)

Sample Name:	Method Blank	**Instrument ID:**	LC08
Lab Code:	KWG1701217-3	**File ID:**	J:\LC08\DATA\021617_XC-254\0216000105.D
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8330B	**Extraction Lot:**	KWG1701217

This Method Blank applies to the following analyses:

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Extracted:**	02/14/2017
Sample Matrix:	Water	**Date Analyzed:**	02/15/2017
		Time Analyzed:	19:43

Method Blank Summary
Nitroaromatics and Nitramines (Explosives)

Sample Name:	Method Blank	**Instrument ID:**	LC10
Lab Code:	KWG1701217-3	**File ID:**	J:\LC10\DATA\021517-210\0215000106.D
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8330B	**Extraction Lot:**	KWG1701217

This Method Blank applies to the following analyses:

QA/QC Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Extracted:**	02/14/2017
Sample Matrix:	Water	**Date Analyzed:**	02/15/2017
		Time Analyzed:	19:43

Method Blank Summary
Nitroaromatics and Nitramines (Explosives)

Sample Name:	Method Blank	**Instrument ID:**	LC10
Lab Code:	KWG1701217-3	**File ID:**	J:\LC10\DATA\021517-254\0215000106.D
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8330B	**Extraction Lot:**	KWG1701217

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	KWG1701217-1	J:\LC10\DATA\021517-254\0215000108.D	02/15/17	20:55
Lab Control Sample	KWG1701217-1	J:\LC10\DATA\021517-210\0215000108.D	02/15/17	20:55
Duplicate Lab Control Sample	KWG1701217-2	J:\LC10\DATA\021517-254\0215000109.D	02/15/17	21:32
Duplicate Lab Control Sample	KWG1701217-2	J:\LC10\DATA\021517-210\0215000109.D	02/15/17	21:32
EB-020717	K1701351-016	J:\LC10\DATA\021517-254\0215000110.D	02/15/17	22:08
EB-020717	K1701351-016	J:\LC10\DATA\021517-210\0215000110.D	02/15/17	22:08
EB-020817	K1701351-017	J:\LC10\DATA\021517-254\0215000111.D	02/15/17	22:44
EB-020817	K1701351-017	J:\LC10\DATA\021517-210\0215000111.D	02/15/17	22:44
EB-020917	K1701351-018	J:\LC10\DATA\021517-254\0215000112.D	02/15/17	23:20
EB-020917	K1701351-018	J:\LC10\DATA\021517-210\0215000112.D	02/15/17	23:20
EB-020817	K1701351-017	J:\LC08\DATA\021617_XC-254\0216000107.D	02/16/17	14:55
EB-020917	K1701351-018	J:\LC08\DATA\021617_XC-254\0216000108.D	02/16/17	15:32

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Extracted:**	02/21/2017
Sample Matrix:	Soil	**Date Analyzed:**	03/02/2017
		Time Analyzed:	15:37

Method Blank Summary
Nitroaromatics and Nitramines (Explosives)

Sample Name:	Storage Blank	**Instrument ID:**	LC10
Lab Code:	KWG1701417-6	**File ID:**	J:\LC10\DATA\030317_8330_210\03020000207.D
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8330B	**Extraction Lot:**	KWG1701417

This Method Blank applies to the following analyses:

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Extracted:**	02/21/2017
Sample Matrix:	Soil	**Date Analyzed:**	03/02/2017
		Time Analyzed:	15:37

Method Blank Summary
Nitroaromatics and Nitramines (Explosives)

Sample Name:	Storage Blank	**Instrument ID:**	LC10
Lab Code:	KWG1701417-6	**File ID:**	J:\LC10\DATA\030317_8330_254\03020000207.D
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8330B	**Extraction Lot:**	KWG1701417

This Method Blank applies to the following analyses:

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Extracted:**	02/21/2017
Sample Matrix:	Soil	**Date Analyzed:**	03/02/2017
		Time Analyzed:	16:13

Method Blank Summary
Nitroaromatics and Nitramines (Explosives)

Sample Name:	Storage Blank	**Instrument ID:**	LC10
Lab Code:	KWG1701417-7	**File ID:**	J:\LC10\DATA\030317_8330_210\03020000208.D
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8330B	**Extraction Lot:**	KWG1701417

This Method Blank applies to the following analyses:

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Extracted:**	02/21/2017
Sample Matrix:	Soil	**Date Analyzed:**	03/02/2017
		Time Analyzed:	16:13

Method Blank Summary
Nitroaromatics and Nitramines (Explosives)

Sample Name:	Storage Blank	**Instrument ID:**	LC10
Lab Code:	KWG1701417-7	**File ID:**	J:\LC10\DATA\030317_8330_254\03020000208.D
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8330B	**Extraction Lot:**	KWG1701417

This Method Blank applies to the following analyses:

QA/QC Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Extracted:**	02/21/2017
Sample Matrix:	Soil	**Date Analyzed:**	03/02/17
		Time Analyzed:	16:13

Method Blank Summary
Nitroaromatics and Nitramines (Explosives)

Sample Name:	Storage Blank	**Instrument ID:**	LC10
Lab Code:	KWG1701417-7	**File ID:**	J:\LC10\DATA\030317_8330_210\03020000208.D
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8330B	**Extraction Lot:**	KWG1701417

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	KWG1701417-8	J:\LC10\DATA\030317_8330_210\03020000206.D	03/02/17	15:01
Standard Reference Material	KWG1701417-5	J:\LC10\DATA\030317_8330_210\03020000209.D	03/02/17	16:49
FD-020817	K1701351-002	J:\LC10\DATA\030317_8330_210\03020000212.D	03/02/17	18:38
FTBL-SB-01D-0.5-2-020717	K1701351-007	J:\LC10\DATA\030317_8330_210\03020000217.D	03/02/17	21:39
FTBL-SB-01D-4-6-020717	K1701351-008	J:\LC10\DATA\030317_8330_210\03020000218.D	03/02/17	22:15
FTBL-SB-01-0-0.5-020717	K1701351-009	J:\LC10\DATA\030317_8330_210\03020000219.D	03/02/17	22:52
FTBL-SB-01-0.5-2-020717	K1701351-010	J:\LC10\DATA\030317_8330_210\03020000220.D	03/02/17	23:28
FTBL-SB-01-4-6-020717	K1701351-011	J:\LC10\DATA\030317_8330_210\03020000223.D	03/03/17	01:17
FTBL-SB-03-0-0.5-020817	K1701351-012	J:\LC10\DATA\030317_8330_210\03020000224.D	03/03/17	01:53
FTBL-SB-03-6-8-020817	K1701351-013	J:\LC10\DATA\030317_8330_210\03020000225.D	03/03/17	02:29
FTBL-SB03-28-30-020917	K1701351-015	J:\LC10\DATA\030317_8330_210\03020000226.D	03/03/17	03:05
FD-020717	K1701351-001	J:\LC10\DATA\030317_8330_210\03020000229.D	03/03/17	04:54
FD-020717DUP	KWG1701417-1	J:\LC10\DATA\030317_8330_210\03020000230.D	03/03/17	05:30
FD-020717TRP	KWG1701417-2	J:\LC10\DATA\030317_8330_210\03020000231.D	03/03/17	06:06
FD-020717MS	KWG1701417-3	J:\LC10\DATA\030317_8330_210\03020000232.D	03/03/17	06:43
FD-020717DMS	KWG1701417-4	J:\LC10\DATA\030317_8330_210\03020000233.D	03/03/17	07:19
FTBL-SB-03-0-0.5-020817	K1701351-012	J:\LC08\DATA\030317_8330_210\03030000124.D	03/04/17	05:36

QA/QC Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Extracted:**	02/21/2017
Sample Matrix:	Soil	**Date Analyzed:**	03/02/17
		Time Analyzed:	16:13

Method Blank Summary
Nitroaromatics and Nitramines (Explosives)

Sample Name:	Storage Blank	**Instrument ID:**	LC10
Lab Code:	KWG1701417-7	**File ID:**	J:\LC10\DATA\030317_8330_254\03020000208.D
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8330B	**Extraction Lot:**	KWG1701417

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	KWG1701417-8	J:\LC10\DATA\030317_8330_254\03020000206.D	03/02/17	15:01
Standard Reference Material	KWG1701417-5	J:\LC10\DATA\030317_8330_254\03020000209.D	03/02/17	16:49
FD-020817	K1701351-002	J:\LC10\DATA\030317_8330_254\03020000212.D	03/02/17	18:38
FTBL-SB-02-0-0.5-020817	K1701351-003	J:\LC10\DATA\030317_8330_254\03020000213.D	03/02/17	19:14
FTBL-SB-02-0-0.5-020817	K1701351-003	J:\LC10\DATA\030317_8330_210\03020000213.D	03/02/17	19:14
FTBL-SB-02-0.5-2-020817	K1701351-004	J:\LC10\DATA\030317_8330_254\03020000214.D	03/02/17	19:51
FTBL-SB-02-0.5-2-020817	K1701351-004	J:\LC10\DATA\030317_8330_210\03020000214.D	03/02/17	19:51
FTBL-SB-02-4-5.5-020817	K1701351-005	J:\LC10\DATA\030317_8330_254\03020000215.D	03/02/17	20:27
FTBL-SB-02-4-5.5-020817	K1701351-005	J:\LC10\DATA\030317_8330_210\03020000215.D	03/02/17	20:27
FTBL-SB-01D-0-0.5-020717	K1701351-006	J:\LC10\DATA\030317_8330_254\03020000216.D	03/02/17	21:03
FTBL-SB-01D-0-0.5-020717	K1701351-006	J:\LC10\DATA\030317_8330_210\03020000216.D	03/02/17	21:03
FTBL-SB-01D-0.5-2-020717	K1701351-007	J:\LC10\DATA\030317_8330_254\03020000217.D	03/02/17	21:39
FTBL-SB-01D-4-6-020717	K1701351-008	J:\LC10\DATA\030317_8330_254\03020000218.D	03/02/17	22:15
FTBL-SB-01-0-0.5-020717	K1701351-009	J:\LC10\DATA\030317_8330_254\03020000219.D	03/02/17	22:52
FTBL-SB-01-0.5-2-020717	K1701351-010	J:\LC10\DATA\030317_8330_254\03020000220.D	03/02/17	23:28
FTBL-SB-01-4-6-020717	K1701351-011	J:\LC10\DATA\030317_8330_254\03020000223.D	03/03/17	01:17
FTBL-SB-03-0-0.5-020817	K1701351-012	J:\LC10\DATA\030317_8330_254\03020000224.D	03/03/17	01:53
FTBL-SB-03-6-8-020817	K1701351-013	J:\LC10\DATA\030317_8330_254\03020000225.D	03/03/17	02:29
FTBL-SB03-28-30-020917	K1701351-015	J:\LC10\DATA\030317_8330_254\03020000226.D	03/03/17	03:05
FD-020717	K1701351-001	J:\LC10\DATA\030317_8330_254\03020000229.D	03/03/17	04:54
FD-020717DUP	KWG1701417-1	J:\LC10\DATA\030317_8330_254\03020000230.D	03/03/17	05:30
FD-020717TRP	KWG1701417-2	J:\LC10\DATA\030317_8330_254\03020000231.D	03/03/17	06:06
FD-020717MS	KWG1701417-3	J:\LC10\DATA\030317_8330_254\03020000232.D	03/03/17	06:43
FD-020717DMS	KWG1701417-4	J:\LC10\DATA\030317_8330_254\03020000233.D	03/03/17	07:19
FTBL-SB-03-0-0.5-020817	K1701351-012	J:\LC08\DATA\030317_8330_254\03030000124.D	03/04/17	05:36

QA/QC Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Extracted:**	02/14/2017
Sample Matrix:	Water	**Date Analyzed:**	02/15/2017
		Time Analyzed:	20:55

Lab Control Sample Summary
Nitroaromatics and Nitramines (Explosives)

Sample Name:	Lab Control Sample	**Instrument ID:**	LC10
Lab Code:	KWG1701217-1	**File ID:**	J:\LC10\DATA\021517-210\0215000108.D
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8330B	**Extraction Lot:**	KWG1701217

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	KWG1701217-3	J:\LC10\DATA\021517-210\0215000106.D	02/15/17	19:43
EB-020717	K1701351-016	J:\LC10\DATA\021517-210\0215000110.D	02/15/17	22:08
EB-020817	K1701351-017	J:\LC10\DATA\021517-210\0215000111.D	02/15/17	22:44
EB-020917	K1701351-018	J:\LC10\DATA\021517-210\0215000112.D	02/15/17	23:20
Method Blank	KWG1701217-3	J:\LC08\DATA\021617_XC-254\0216000105.D	02/16/17	13:42
EB-020817	K1701351-017	J:\LC08\DATA\021617_XC-254\0216000107.D	02/16/17	14:55
EB-020917	K1701351-018	J:\LC08\DATA\021617_XC-254\0216000108.D	02/16/17	15:32

QA/QC Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Extracted:**	02/14/2017
Sample Matrix:	Water	**Date Analyzed:**	02/15/2017
		Time Analyzed:	20:55

Lab Control Sample Summary
Nitroaromatics and Nitramines (Explosives)

Sample Name:	Lab Control Sample	**Instrument ID:**	LC10
Lab Code:	KWG1701217-1	**File ID:**	J:\LC10\DATA\021517-254\0215000108.D
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8330B	**Extraction Lot:**	KWG1701217

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	KWG1701217-3	J:\LC10\DATA\021517-254\0215000106.D	02/15/17	19:43
Method Blank	KWG1701217-3	J:\LC10\DATA\021517-210\0215000106.D	02/15/17	19:43
EB-020717	K1701351-016	J:\LC10\DATA\021517-254\0215000110.D	02/15/17	22:08
EB-020717	K1701351-016	J:\LC10\DATA\021517-210\0215000110.D	02/15/17	22:08
EB-020817	K1701351-017	J:\LC10\DATA\021517-254\0215000111.D	02/15/17	22:44
EB-020817	K1701351-017	J:\LC10\DATA\021517-210\0215000111.D	02/15/17	22:44
EB-020917	K1701351-018	J:\LC10\DATA\021517-254\0215000112.D	02/15/17	23:20
EB-020917	K1701351-018	J:\LC10\DATA\021517-210\0215000112.D	02/15/17	23:20
Method Blank	KWG1701217-3	J:\LC08\DATA\021617_XC-254\0216000105.D	02/16/17	13:42
EB-020817	K1701351-017	J:\LC08\DATA\021617_XC-254\0216000107.D	02/16/17	14:55
EB-020917	K1701351-018	J:\LC08\DATA\021617_XC-254\0216000108.D	02/16/17	15:32

QA/QC Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Extracted:**	02/21/2017
Sample Matrix:	Soil	**Date Analyzed:**	03/02/2017
		Time Analyzed:	16:49

Lab Control Sample Summary
Nitroaromatics and Nitramines (Explosives)

Sample Name:	Standard Reference Material	**Instrument ID:**	LC10
Lab Code:	KWG1701417-5	**File ID:**	J:\LC10\DATA\030317_8330_210\03020000209.D
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8330B	**Extraction Lot:**	KWG1701417

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
FTBL-SB-01-4-6-020717	K1701351-011	J:\LC10\DATA\030317_8330_210\03020000223.D	03/03/17	01:17
FD-020717DUP	KWG1701417-1	J:\LC10\DATA\030317_8330_210\03020000230.D	03/03/17	05:30

QA/QC Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Extracted:**	02/21/2017
Sample Matrix:	Soil	**Date Analyzed:**	03/02/2017
		Time Analyzed:	16:49

Lab Control Sample Summary
Nitroaromatics and Nitramines (Explosives)

Sample Name:	Standard Reference Material	**Instrument ID:**	LC10
Lab Code:	KWG1701417-5	**File ID:**	J:\LC10\DATA\030317_8330_254\03020000209.D
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8330B	**Extraction Lot:**	KWG1701417

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
FTBL-SB-01-4-6-020717	K1701351-011	J:\LC10\DATA\030317_8330_210\03020000223.D	03/03/17	01:17
FD-020717DUP	KWG1701417-1	J:\LC10\DATA\030317_8330_210\03020000230.D	03/03/17	05:30
FTBL-SB-03-0-0.5-020817	K1701351-012	J:\LC08\DATA\030317_8330_210\03030000124.D	03/04/17	05:36

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Extracted:**	02/21/2017
Sample Matrix:	Soil	**Date Analyzed:**	03/02/2017
		Time Analyzed:	15:01

Lab Control Sample Summary
Nitroaromatics and Nitramines (Explosives)

Sample Name:	Lab Control Sample	**Instrument ID:**	LC10
Lab Code:	KWG1701417-8	**File ID:**	J:\LC10\DATA\030317_8330_210\03020000206.D
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8330B	**Extraction Lot:**	KWG1701417

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	KWG1701417-9	J:\LC10\DATA\030317_8330_210\03020000205.D	03/02/17	14:24
Storage Blank	KWG1701417-6	J:\LC10\DATA\030317_8330_210\03020000207.D	03/02/17	15:37
Storage Blank	KWG1701417-7	J:\LC10\DATA\030317_8330_210\03020000208.D	03/02/17	16:13
FD-020817	K1701351-002	J:\LC10\DATA\030317_8330_254\03020000212.D	03/02/17	18:38
FD-020817	K1701351-002	J:\LC10\DATA\030317_8330_210\03020000212.D	03/02/17	18:38
FTBL-SB-02-0-0.5-020817	K1701351-003	J:\LC10\DATA\030317_8330_254\03020000213.D	03/02/17	19:14
FTBL-SB-02-0-0.5-020817	K1701351-003	J:\LC10\DATA\030317_8330_210\03020000213.D	03/02/17	19:14
FTBL-SB-02-0.5-2-020817	K1701351-004	J:\LC10\DATA\030317_8330_210\03020000214.D	03/02/17	19:51
FTBL-SB-02-0.5-2-020817	K1701351-004	J:\LC10\DATA\030317_8330_254\03020000214.D	03/02/17	19:51
FTBL-SB-02-4-5.5-020817	K1701351-005	J:\LC10\DATA\030317_8330_254\03020000215.D	03/02/17	20:27
FTBL-SB-02-4-5.5-020817	K1701351-005	J:\LC10\DATA\030317_8330_210\03020000215.D	03/02/17	20:27
FTBL-SB-01D-0-0.5-020717	K1701351-006	J:\LC10\DATA\030317_8330_254\03020000216.D	03/02/17	21:03
FTBL-SB-01D-0-0.5-020717	K1701351-006	J:\LC10\DATA\030317_8330_210\03020000216.D	03/02/17	21:03
FTBL-SB-01D-0.5-2-020717	K1701351-007	J:\LC10\DATA\030317_8330_254\03020000217.D	03/02/17	21:39
FTBL-SB-01D-0.5-2-020717	K1701351-007	J:\LC10\DATA\030317_8330_210\03020000217.D	03/02/17	21:39
FTBL-SB-01D-4-6-020717	K1701351-008	J:\LC10\DATA\030317_8330_254\03020000218.D	03/02/17	22:15
FTBL-SB-01D-4-6-020717	K1701351-008	J:\LC10\DATA\030317_8330_210\03020000218.D	03/02/17	22:15
FTBL-SB-01-0-0.5-020717	K1701351-009	J:\LC10\DATA\030317_8330_254\03020000219.D	03/02/17	22:52
FTBL-SB-01-0-0.5-020717	K1701351-009	J:\LC10\DATA\030317_8330_210\03020000219.D	03/02/17	22:52
FTBL-SB-01-0.5-2-020717	K1701351-010	J:\LC10\DATA\030317_8330_210\03020000220.D	03/02/17	23:28
FTBL-SB-01-0.5-2-020717	K1701351-010	J:\LC10\DATA\030317_8330_254\03020000220.D	03/02/17	23:28
FTBL-SB-01-4-6-020717	K1701351-011	J:\LC10\DATA\030317_8330_254\03020000223.D	03/03/17	01:17
FTBL-SB-03-0-0.5-020817	K1701351-012	J:\LC10\DATA\030317_8330_254\03020000224.D	03/03/17	01:53
FTBL-SB-03-0-0.5-020817	K1701351-012	J:\LC10\DATA\030317_8330_210\03020000224.D	03/03/17	01:53
FTBL-SB-03-6-8-020817	K1701351-013	J:\LC10\DATA\030317_8330_254\03020000225.D	03/03/17	02:29
FTBL-SB-03-6-8-020817	K1701351-013	J:\LC10\DATA\030317_8330_210\03020000225.D	03/03/17	02:29
FTBL-SB03-28-30-020917	K1701351-015	J:\LC10\DATA\030317_8330_210\03020000226.D	03/03/17	03:05
FTBL-SB03-28-30-020917	K1701351-015	J:\LC10\DATA\030317_8330_254\03020000226.D	03/03/17	03:05
FD-020717	K1701351-001	J:\LC10\DATA\030317_8330_254\03020000229.D	03/03/17	04:54
FD-020717	K1701351-001	J:\LC10\DATA\030317_8330_210\03020000229.D	03/03/17	04:54
FD-020717DUP	KWG1701417-1	J:\LC10\DATA\030317_8330_254\03020000230.D	03/03/17	05:30
FD-020717TRP	KWG1701417-2	J:\LC10\DATA\030317_8330_254\03020000231.D	03/03/17	06:06
FD-020717TRP	KWG1701417-2	J:\LC10\DATA\030317_8330_210\03020000231.D	03/03/17	06:06
FD-020717MS	KWG1701417-3	J:\LC10\DATA\030317_8330_254\03020000232.D	03/03/17	06:43
FD-020717MS	KWG1701417-3	J:\LC10\DATA\030317_8330_210\03020000232.D	03/03/17	06:43
FD-020717DMS	KWG1701417-4	J:\LC10\DATA\030317_8330_254\03020000233.D	03/03/17	07:19

QA/QC Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Extracted:**	02/21/2017
Sample Matrix:	Soil	**Date Analyzed:**	03/02/2017
		Time Analyzed:	15:01

Lab Control Sample Summary
Nitroaromatics and Nitramines (Explosives)

Sample Name:	Lab Control Sample	**Instrument ID:**	LC10
Lab Code:	KWG1701417-8	**File ID:**	J:\LC10\DATA\030317_8330_210\03020000206.D
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8330B	**Extraction Lot:**	KWG1701417

This Lab Control Sample applies to the following analyses:

FD-020717DMS	KWG1701417-4	J:\LC10\DATA\030317_8330_210\03020000233.D	03/03/17	07:19
FTBL-SB-03-0-0.5-020817	K1701351-012	J:\LC08\DATA\030317_8330_254\03030000124.D	03/04/17	05:36

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Extracted:**	02/21/2017
Sample Matrix:	Soil	**Date Analyzed:**	03/02/2017
		Time Analyzed:	15:01

Lab Control Sample Summary
Nitroaromatics and Nitramines (Explosives)

Sample Name:	Lab Control Sample	**Instrument ID:**	LC10
Lab Code:	KWG1701417-8	**File ID:**	J:\LC10\DATA\030317_8330_254\03020000206.D
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8330B	**Extraction Lot:**	KWG1701417

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	KWG1701417-9	J:\LC10\DATA\030317_8330_210\03020000205.D	03/02/17	14:24
Method Blank	KWG1701417-9	J:\LC10\DATA\030317_8330_254\03020000205.D	03/02/17	14:24
Storage Blank	KWG1701417-6	J:\LC10\DATA\030317_8330_254\03020000207.D	03/02/17	15:37
Storage Blank	KWG1701417-6	J:\LC10\DATA\030317_8330_210\03020000207.D	03/02/17	15:37
Storage Blank	KWG1701417-7	J:\LC10\DATA\030317_8330_254\03020000208.D	03/02/17	16:13
Storage Blank	KWG1701417-7	J:\LC10\DATA\030317_8330_210\03020000208.D	03/02/17	16:13
FD-020817	K1701351-002	J:\LC10\DATA\030317_8330_254\03020000212.D	03/02/17	18:38
FD-020817	K1701351-002	J:\LC10\DATA\030317_8330_210\03020000212.D	03/02/17	18:38
FTBL-SB-02-0-0.5-020817	K1701351-003	J:\LC10\DATA\030317_8330_210\03020000213.D	03/02/17	19:14
FTBL-SB-02-0-0.5-020817	K1701351-003	J:\LC10\DATA\030317_8330_254\03020000213.D	03/02/17	19:14
FTBL-SB-02-0.5-2-020817	K1701351-004	J:\LC10\DATA\030317_8330_254\03020000214.D	03/02/17	19:51
FTBL-SB-02-0.5-2-020817	K1701351-004	J:\LC10\DATA\030317_8330_210\03020000214.D	03/02/17	19:51
FTBL-SB-02-4-5.5-020817	K1701351-005	J:\LC10\DATA\030317_8330_254\03020000215.D	03/02/17	20:27
FTBL-SB-02-4-5.5-020817	K1701351-005	J:\LC10\DATA\030317_8330_210\03020000215.D	03/02/17	20:27
FTBL-SB-01D-0-0.5-020717	K1701351-006	J:\LC10\DATA\030317_8330_254\03020000216.D	03/02/17	21:03
FTBL-SB-01D-0-0.5-020717	K1701351-006	J:\LC10\DATA\030317_8330_210\03020000216.D	03/02/17	21:03
FTBL-SB-01D-0.5-2-020717	K1701351-007	J:\LC10\DATA\030317_8330_254\03020000217.D	03/02/17	21:39
FTBL-SB-01D-0.5-2-020717	K1701351-007	J:\LC10\DATA\030317_8330_210\03020000217.D	03/02/17	21:39
FTBL-SB-01D-4-6-020717	K1701351-008	J:\LC10\DATA\030317_8330_210\03020000218.D	03/02/17	22:15
FTBL-SB-01D-4-6-020717	K1701351-008	J:\LC10\DATA\030317_8330_254\03020000218.D	03/02/17	22:15
FTBL-SB-01-0-0.5-020717	K1701351-009	J:\LC10\DATA\030317_8330_254\03020000219.D	03/02/17	22:52
FTBL-SB-01-0-0.5-020717	K1701351-009	J:\LC10\DATA\030317_8330_210\03020000219.D	03/02/17	22:52
FTBL-SB-01-0.5-2-020717	K1701351-010	J:\LC10\DATA\030317_8330_254\03020000220.D	03/02/17	23:28
FTBL-SB-01-0.5-2-020717	K1701351-010	J:\LC10\DATA\030317_8330_210\03020000220.D	03/02/17	23:28
FTBL-SB-01-4-6-020717	K1701351-011	J:\LC10\DATA\030317_8330_254\03020000223.D	03/03/17	01:17
FTBL-SB-03-0-0.5-020817	K1701351-012	J:\LC10\DATA\030317_8330_254\03020000224.D	03/03/17	01:53
FTBL-SB-03-0-0.5-020817	K1701351-012	J:\LC10\DATA\030317_8330_210\03020000224.D	03/03/17	01:53
FTBL-SB-03-6-8-020817	K1701351-013	J:\LC10\DATA\030317_8330_254\03020000225.D	03/03/17	02:29
FTBL-SB-03-6-8-020817	K1701351-013	J:\LC10\DATA\030317_8330_210\03020000225.D	03/03/17	02:29
FTBL-SB03-28-30-020917	K1701351-015	J:\LC10\DATA\030317_8330_254\03020000226.D	03/03/17	03:05
FTBL-SB03-28-30-020917	K1701351-015	J:\LC10\DATA\030317_8330_210\03020000226.D	03/03/17	03:05
FD-020717	K1701351-001	J:\LC10\DATA\030317_8330_210\03020000229.D	03/03/17	04:54
FD-020717	K1701351-001	J:\LC10\DATA\030317_8330_254\03020000229.D	03/03/17	04:54
FD-020717DUP	KWG1701417-1	J:\LC10\DATA\030317_8330_254\03020000230.D	03/03/17	05:30
FD-020717TRP	KWG1701417-2	J:\LC10\DATA\030317_8330_254\03020000231.D	03/03/17	06:06
FD-020717TRP	KWG1701417-2	J:\LC10\DATA\030317_8330_210\03020000231.D	03/03/17	06:06

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Extracted:**	02/21/2017
Sample Matrix:	Soil	**Date Analyzed:**	03/02/2017
		Time Analyzed:	15:01

Lab Control Sample Summary
Nitroaromatics and Nitramines (Explosives)

Sample Name:	Lab Control Sample	**Instrument ID:**	LC10
Lab Code:	KWG1701417-8	**File ID:**	J:\LC10\DATA\030317_8330_254\03020000206.D
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	8330B	**Extraction Lot:**	KWG1701417

This Lab Control Sample applies to the following analyses:

FD-020717MS	KWG1701417-3	J:\LC10\DATA\030317_8330_254\03020000232.D	03/03/17	06:43
FD-020717MS	KWG1701417-3	J:\LC10\DATA\030317_8330_210\03020000232.D	03/03/17	06:43
FD-020717DMS	KWG1701417-4	J:\LC10\DATA\030317_8330_254\03020000233.D	03/03/17	07:19
FD-020717DMS	KWG1701417-4	J:\LC10\DATA\030317_8330_210\03020000233.D	03/03/17	07:19
FTBL-SB-03-0-0.5-020817	K1701351-012	J:\LC08\DATA\030317_8330_254\03030000124.D	03/04/17	05:36

Client: ARCADIS U.S., Inc. **Service Request:** K1701351
Project: Castner Range/06261038.0001.00400 **Calibration Date:** 02/09/2017

Initial Calibration Summary
Nitroaromatics and Nitramines (Explosives)

Calibration ID: CAL15185 **Column:** Ultra Aromax 5u
Instrument ID: LC08

Level ID	File ID	Level ID	File ID
A	J:\LC08\Data\020917XC-210\0209000104.D	G	J:\LC08\Data\020917XC-210\0209000110.D
B	J:\LC08\Data\020917XC-210\0209000105.D	H	J:\LC08\Data\020917XC-210\0209000111.D
C	J:\LC08\Data\020917XC-210\0209000106.D	I	J:\LC08\Data\020917XC-210\0209000112.D
D	J:\LC08\Data\020917XC-210\0209000107.D	J	J:\LC08\Data\020917XC-210\0209000113.D
E	J:\LC08\Data\020917XC-210\0209000108.D		
F	J:\LC08\Data\020917XC-210\0209000109.D		

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Nitroglycerin				B	50	20500	C	100	19800	D	200	19900	E	500	22500
	F	1000	21400	G	2000	21300	H	5000	20900	I	10000	21000	J	20000	20800
Pentaerythritol Tetranitrate	A	20	84600	B	50	72900	C	100	85500	D	200	87800	E	500	84300
	F	1000	82500	G	2000	81300	H	5000	81100	I	10000	80600	J	20000	78900
1-Chloro-3-nitrobenzene				B	50	61200	C	100	76800	D	200	67800	E	500	71900
	F	1000	69900	G	2000	69700	H	5000	70300	I	10000	69000	J	20000	69400

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: ARCADIS U.S., Inc. **Service Request:** K1701351
Project: Castner Range/06261038.0001.00400 **Calibration Date:** 02/09/2017

Initial Calibration Summary
Nitroaromatics and Nitramines (Explosives)

Calibration ID: CAL15185 **Column:** Ultra Aromax 5u
Instrument ID: LC08

Analyte Name	Compound Type	Calibration Evaluation				
		Fit Type	Eval.	Eval. Result	Q	Control Criteria
Nitroglycerin	MS	AverageRF	% RSD	4.0		≤ 15
Pentaerythritol Tetranitrate	MS	AverageRF	% RSD	5.1		≤ 15
1-Chloro-3-nitrobenzene	SURR	AverageRF	% RSD	5.8		≤ 15

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: ARCADIS U.S., Inc.
Project: Castner Range/06261038.0001.00400

Service Request: K1701351
Calibration Date: 02/09/2017
Date Analyzed: 02/09/2017

Second Source Calibration Verification
Nitroaromatics and Nitramines (Explosives)

Calibration Type: External Standard
Analysis Method: 8330B

Calibration ID: CAL15185
Units: ug/L

File ID: J:\LC08\Data\020917XC-210\0209000115.D

Column ID: Ultra Aromax 5u

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
Nitroglycerin	1000	990	20900	20800	-1	NA	± 20 %	AverageRF
Pentaerythritol Tetranitrate	1000	950	81900	77500	-5	NA	± 20 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound **‡ CCC Compound**

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client: ARCADIS U.S., Inc. **Service Request:** K1701351
Project: Castner Range/06261038.0001.00400 **Calibration Date:** 02/09/2017

Initial Calibration Summary
Nitroaromatics and Nitramines (Explosives)

Calibration ID: CAL15192 **Column:** Ultra Aromax 5u
Instrument ID: LC08

Level ID	File ID
A	J:\LC08\Data\020917XC-254\0209000104.D
B	J:\LC08\Data\020917XC-254\0209000105.D
C	J:\LC08\Data\020917XC-254\0209000106.D
D	J:\LC08\Data\020917XC-254\0209000107.D
E	J:\LC08\Data\020917XC-254\0209000108.D
F	J:\LC08\Data\020917XC-254\0209000109.D
G	J:\LC08\Data\020917XC-254\0209000110.D
H	J:\LC08\Data\020917XC-254\0209000111.D
I	J:\LC08\Data\020917XC-254\0209000112.D
J	J:\LC08\Data\020917XC-254\0209000113.D

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
HMX	A	20	14700	B	50	15600	C	100	15600	D	200	16000	E	500	16000
	F	1000	15800	G	2000	15700	H	5000	15900	I	10000	15600	J	20000	15100
RDX	A	20	22600	B	50	19500	C	100	18200	D	200	18300	E	500	18400
	F	1000	18300	G	2000	17800	H	5000	17900	I	10000	17700	J	20000	17300
1,3,5-Trinitrobenzene	A	20	48500	B	50	44000	C	100	41500	D	200	40700	E	500	42200
	F	1000	41500	G	2000	40800	H	5000	41000	I	10000	40900	J	20000	40300
1,3-Dinitrobenzene	A	20	56400	B	50	58700	C	100	56300	D	200	56200	E	500	57200
	F	1000	55600	G	2000	54800	H	5000	55200	I	10000	55200	J	20000	53900
3,5-Dinitroaniline	A	20	48200	B	50	46500	C	100	46400	D	200	46300	E	500	47100
	F	1000	46800	G	2000	46100	H	5000	46400	I	10000	45900	J	20000	45100
TETRYL	A	20	31100	B	50	29000	C	100	30300	D	200	28600	E	500	28500
	F	1000	28700	G	2000	27900	H	5000	29300	I	10000	30600	J	20000	29600
Nitrobenzene	A	20	37200	B	50	38600	C	100	37100	D	200	36900	E	500	37800
	F	1000	37200	G	2000	36900	H	5000	37100	I	10000	37000	J	20000	36200
4-Amino-2,6-dinitrotoluene	A	20	32600	B	50	32800	C	100	31600	D	200	32000	E	500	32400
	F	1000	32000	G	2000	31500	H	5000	31500	I	10000	31400	J	20000	30700
2-Amino-4,6-dinitrotoluene	A	20	44500	B	50	43000	C	100	42100	D	200	42100	E	500	42600
	F	1000	42400	G	2000	41600	H	5000	41700	I	10000	41400	J	20000	40600
2,4,6-Trinitrotoluene	A	20	41000	B	50	38000	C	100	38800	D	200	38800	E	500	39100
	F	1000	39000	G	2000	38400	H	5000	38700	I	10000	38600	J	20000	37600
2,6-Dinitrotoluene	A	20	24600	B	50	24300	C	100	24300	D	200	24400	E	500	25100
	F	1000	25000	G	2000	24500	H	5000	24500	I	10000	24000	J	20000	24000
2,4-Dinitrotoluene	A	20	62500	B	50	55700	C	100	51800	D	200	51700	E	500	52000
	F	1000	51300	G	2000	50500	H	5000	50700	I	10000	50400	J	20000	49600
2-Nitrotoluene	A	20	23700	B	50	23500	C	100	23600	D	200	23200	E	500	23900
	F	1000	23600	G	2000	23400	H	5000	23700	I	10000	23700	J	20000	23300
4-Nitrotoluene	A	20	27200	B	50	24000	C	100	22800	D	200	22300	E	500	23500
	F	1000	22800	G	2000	23000	H	5000	22300	I	10000	22600	J	20000	22600

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: ARCADIS U.S., Inc. **Service Request:** K1701351
Project: Castner Range/06261038.0001.00400 **Calibration Date:** 02/09/2017

Initial Calibration Summary
Nitroaromatics and Nitramines (Explosives)

Calibration ID: CAL15192 **Column:** Ultra Aromax 5u
Instrument ID: LC08

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
3-Nitrotoluene	A	20	28300	B	50	28300	C	100	28000	D	200	27900	E	500	28300
	F	1000	27900	G	2000	27900	H	5000	27700	I	10000	27900	J	20000	27200
1-Chloro-3-nitrobenzene	A	20	25700	B	50	26700	C	100	26600	D	200	26100	E	500	26500
	F	1000	26700	G	2000	26600	H	5000	26800	I	10000	25800	J	20000	25700

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: ARCADIS U.S., Inc. **Service Request:** K1701351
Project: Castner Range/06261038.0001.00400 **Calibration Date:** 02/09/2017

Initial Calibration Summary
Nitroaromatics and Nitramines (Explosives)

Calibration ID: CAL15192 **Column:** Ultra Aromax 5u
Instrument ID: LC08

Analyte Name	Compound Type	Calibration Evaluation				
		Fit Type	Eval.	Eval. Result	Q	Control Criteria
HMX	MS	AverageRF	% RSD	2.5		≤ 15
RDX	MS	AverageRF	% RSD	8.2		≤ 15
1,3,5-Trinitrobenzene	MS	AverageRF	% RSD	5.9		≤ 15
1,3-Dinitrobenzene	MS	AverageRF	% RSD	2.4		≤ 15
3,5-Dinitroaniline	MS	AverageRF	% RSD	1.7		≤ 15
TETRYL	MS	AverageRF	% RSD	3.5		≤ 15
Nitrobenzene	MS	AverageRF	% RSD	1.7		≤ 15
4-Amino-2,6-dinitrotoluene	MS	AverageRF	% RSD	2.1		≤ 15
2-Amino-4,6-dinitrotoluene	MS	AverageRF	% RSD	2.5		≤ 15
2,4,6-Trinitrotoluene	MS	AverageRF	% RSD	2.3		≤ 15
2,6-Dinitrotoluene	MS	AverageRF	% RSD	1.5		≤ 15
2,4-Dinitrotoluene	MS	AverageRF	% RSD	7.3		≤ 15
2-Nitrotoluene	MS	AverageRF	% RSD	0.9		≤ 15
4-Nitrotoluene	MS	AverageRF	% RSD	6.3		≤ 15
3-Nitrotoluene	MS	AverageRF	% RSD	1.2		≤ 15
1-Chloro-3-nitrobenzene	SURR	AverageRF	% RSD	1.7		≤ 15

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: ARCADIS U.S., Inc.
Project: Castner Range/06261038.0001.00400

Service Request: K1701351
Calibration Date: 02/09/2017
Date Analyzed: 02/09/2017

Second Source Calibration Verification
Nitroaromatics and Nitramines (Explosives)

Calibration Type: External Standard
Analysis Method: 8330B

Calibration ID: CAL15192
Units: ug/L

File ID: J:\LC08\Data\020917XC-254\0209000115.D

Column ID: Ultra Aromax 5u

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
HMX	1000	970	15600	15200	-3	NA	± 20 %	AverageRF
RDX	1000	900	18600	16800	-10	NA	± 20 %	AverageRF
1,3,5-Trinitrobenzene	1000	910	42100	38500	-9	NA	± 20 %	AverageRF
1,3-Dinitrobenzene	1000	920	55900	51400	-8	NA	± 20 %	AverageRF
3,5-Dinitroaniline	1000	930	46500	43000	-7	NA	± 20 %	AverageRF
TETRYL	1000	910	29400	26700	-9	NA	± 20 %	AverageRF
Nitrobenzene	1000	930	37200	34500	-7	NA	± 20 %	AverageRF
4-Amino-2,6-dinitrotoluene	1000	920	31900	29300	-8	NA	± 20 %	AverageRF
2-Amino-4,6-dinitrotoluene	1000	910	42200	38600	-9	NA	± 20 %	AverageRF
2,4,6-Trinitrotoluene	1000	920	38800	35600	-8	NA	± 20 %	AverageRF
2,6-Dinitrotoluene	1000	980	24500	24100	-2	NA	± 20 %	AverageRF
2,4-Dinitrotoluene	1000	910	52600	47700	-9	NA	± 20 %	AverageRF
2-Nitrotoluene	1000	930	23600	21900	-7	NA	± 20 %	AverageRF
4-Nitrotoluene	1000	940	23300	22000	-6	NA	± 20 %	AverageRF
3-Nitrotoluene	1000	900	27900	25200	-10	NA	± 20 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound **‡ CCC Compound**

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client: ARCADIS U.S., Inc. **Service Request:** K1701351
Project: Castner Range/06261038.0001.00400 **Calibration Date:** 12/07/2016

Initial Calibration Summary
Nitroaromatics and Nitramines (Explosives)

Calibration ID: CAL15062 **Column:** Synergi Hydro R
Instrument ID: LC10

Level ID	File ID
A	J:\LC10\Data\120716_8330B-254\1207000704.D
B	J:\LC10\Data\120716_8330B-254\1207000705.D
C	J:\LC10\Data\120716_8330B-254\1207000706.D
D	J:\LC10\Data\120716_8330B-254\1207000707.D
E	J:\LC10\Data\120716_8330B-254\1207000708.D
F	J:\LC10\Data\120716_8330B-254\1207000709.D
G	J:\LC10\Data\120716_8330B-254\1207000710.D
H	J:\LC10\Data\120716_8330B-254\1207000711.D
I	J:\LC10\Data\120716_8330B-254\1207000712.D
J	J:\LC10\Data\120716_8330B-254\1207000713.D

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
HMX	A	20	11600	B	50	11800	C	100	12200	D	200	12200	E	500	12100
	F	1000	11900	G	2000	11900	H	5000	12200	I	10000	11700	J	20000	12100
RDX	A	20	21000	B	50	19600	C	100	19900	D	200	19600	E	500	20000
	F	1000	19600	G	2000	19500	H	5000	20100	I	10000	19400	J	20000	20100
1,3,5-Trinitrobenzene	A	20	45400	B	50	45500	C	100	44300	D	200	44400	E	500	45100
	F	1000	44300	G	2000	43800	H	5000	45200	I	10000	43600	J	20000	45000
1,3-Dinitrobenzene	A	20	62900	B	50	61400	C	100	59600	D	200	60200	E	500	60600
	F	1000	59300	G	2000	58900	H	5000	60800	I	10000	58500	J	20000	60700
3,5-Dinitroaniline	A	20	48800	B	50	47600	C	100	47700	D	200	47400	E	500	48300
	F	1000	47200	G	2000	46800	H	5000	48600	I	10000	46700	J	20000	48400
TETRYL	A	20	33700	B	50	33500	C	100	33500	D	200	33600	E	500	33600
	F	1000	33100	G	2000	32700	H	5000	33800	I	10000	32900	J	20000	33600
Nitrobenzene	A	20	39400	B	50	39000	C	100	38300	D	200	38200	E	500	39000
	F	1000	38300	G	2000	38100	H	5000	39300	I	10000	37800	J	20000	38800
4-Amino-2,6-dinitrotoluene	A	20	26900	B	50	30700	C	100	29700	D	200	29600	E	500	30000
	F	1000	29600	G	2000	29400	H	5000	30200	I	10000	29100	J	20000	30100
2-Amino-4,6-dinitrotoluene	A	20	42300	B	50	41700	C	100	41700	D	200	42500	E	500	42600
	F	1000	41800	G	2000	40900	H	5000	42500	I	10000	41100	J	20000	42600
2,4,6-Trinitrotoluene	A	20	39900	B	50	42000	C	100	41400	D	200	42200	E	500	42400
	F	1000	41600	G	2000	41100	H	5000	42500	I	10000	41000	J	20000	42500
2,6-Dinitrotoluene	A	20	23500	B	50	25600	C	100	23800	D	200	24500	E	500	25100
	F	1000	24500	G	2000	24000	H	5000	24800	I	10000	24000	J	20000	24900
2,4-Dinitrotoluene	A	20	57600	B	50	59100	C	100	58900	D	200	59000	E	500	59900
	F	1000	58900	G	2000	58800	H	5000	60800	I	10000	59200	J	20000	60100
2-Nitrotoluene	A	20	17500	B	50	18200	C	100	18000	D	200	18100	E	500	18200
	F	1000	17900	G	2000	17600	H	5000	18400	I	10000	17600	J	20000	18100
4-Nitrotoluene	A	20	16000	B	50	16100	C	100	16400	D	200	16000	E	500	16000
	F	1000	15600	G	2000	15400	H	5000	16000	I	10000	15300	J	20000	15800

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: ARCADIS U.S., Inc. **Service Request:** K1701351
Project: Castner Range/06261038.0001.00400 **Calibration Date:** 12/07/2016

Initial Calibration Summary
Nitroaromatics and Nitramines (Explosives)

Calibration ID: CAL15062 **Column:** Synergi Hydro R
Instrument ID: LC10

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
3-Nitrotoluene	A	20	20600	B	50	19600	C	100	20500	D	200	20100	E	500	20300
	F	1000	20300	G	2000	19700	H	5000	20500	I	10000	19600	J	20000	20200
1-Chloro-3-nitrobenzene	A	20	23100	B	50	22100	C	100	22200	D	200	21800	E	500	21800
	F	1000	21400	G	2000	21100	H	5000	22000	I	10000	18800	J	20000	21800

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: ARCADIS U.S., Inc. **Service Request:** K1701351
Project: Castner Range/06261038.0001.00400 **Calibration Date:** 12/07/2016

Initial Calibration Summary
Nitroaromatics and Nitramines (Explosives)

Calibration ID: CAL15062 **Column:** Synergi Hydro R
Instrument ID: LC10

Analyte Name	Compound Type	Calibration Evaluation: Fit Type	Eval.	Eval. Result	Q	Control Criteria
HMX	MS	AverageRF	% RSD	1.7		≤ 15
RDX	MS	AverageRF	% RSD	2.4		≤ 15
1,3,5-Trinitrobenzene	MS	AverageRF	% RSD	1.5		≤ 15
1,3-Dinitrobenzene	MS	AverageRF	% RSD	2.2		≤ 15
3,5-Dinitroaniline	MS	AverageRF	% RSD	1.6		≤ 15
TETRYL	MS	AverageRF	% RSD	1.2		≤ 15
Nitrobenzene	MS	AverageRF	% RSD	1.4		≤ 15
4-Amino-2,6-dinitrotoluene	MS	AverageRF	% RSD	3.5		≤ 15
2-Amino-4,6-dinitrotoluene	MS	AverageRF	% RSD	1.5		≤ 15
2,4,6-Trinitrotoluene	MS	AverageRF	% RSD	2.0		≤ 15
2,6-Dinitrotoluene	MS	AverageRF	% RSD	2.6		≤ 15
2,4-Dinitrotoluene	MS	AverageRF	% RSD	1.5		≤ 15
2-Nitrotoluene	MS	AverageRF	% RSD	1.7		≤ 15
4-Nitrotoluene	MS	AverageRF	% RSD	2.2		≤ 15
3-Nitrotoluene	MS	AverageRF	% RSD	1.8		≤ 15
1-Chloro-3-nitrobenzene	SURR	AverageRF	% RSD	5.1		≤ 15

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: ARCADIS U.S., Inc.
Project: Castner Range/06261038.0001.00400

Service Request: K1701351
Calibration Date: 12/07/2016
Date Analyzed: 12/08/2016

Second Source Calibration Verification
Nitroaromatics and Nitramines (Explosives)

Calibration Type: External Standard
Analysis Method: 8330B

Calibration ID: CAL15062
Units: ug/L

File ID: J:\LC10\Data\120716_8330B-254\1207000715.D

Column ID: Synergi Hydro R

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
HMX	10000	8900	12000	10700	-11	NA	± 20 %	AverageRF
RDX	10000	8900	19900	17600	-11	NA	± 20 %	AverageRF
1,3,5-Trinitrobenzene	10000	8900	44700	39900	-11	NA	± 20 %	AverageRF
1,3-Dinitrobenzene	10000	8900	60300	53500	-11	NA	± 20 %	AverageRF
3,5-Dinitroaniline	10000	9000	47700	42900	-10	NA	± 20 %	AverageRF
TETRYL	10000	9000	33400	29900	-10	NA	± 20 %	AverageRF
Nitrobenzene	10000	9000	38600	34800	-10	NA	± 20 %	AverageRF
4-Amino-2,6-dinitrotoluene	10000	9000	29500	26700	-10	NA	± 20 %	AverageRF
2-Amino-4,6-dinitrotoluene	10000	8900	42000	37500	-11	NA	± 20 %	AverageRF
2,4,6-Trinitrotoluene	10000	9100	41700	37700	-9	NA	± 20 %	AverageRF
2,6-Dinitrotoluene	10000	9100	24500	22400	-9	NA	± 20 %	AverageRF
2,4-Dinitrotoluene	10000	9000	59200	53300	-10	NA	± 20 %	AverageRF
2-Nitrotoluene	10000	9000	18000	16100	-10	NA	± 20 %	AverageRF
4-Nitrotoluene	10000	8900	15900	14200	-11	NA	± 20 %	AverageRF
3-Nitrotoluene	10000	8800	20100	17700	-12	NA	± 20 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound **‡ CCC Compound**

Client: ARCADIS U.S., Inc. **Service Request:** K1701351
Project: Castner Range/06261038.0001.00400 **Calibration Date:** 12/07/2016

Initial Calibration Summary
Nitroaromatics and Nitramines (Explosives)

Calibration ID: CAL15063 **Column:** Synergi Hydro 4
Instrument ID: LC10

Level ID	File ID	Level ID	File ID
A	J:\LC10\Data\120716_8330B-210\1207000705.D	F	J:\LC10\Data\120716_8330B-210\1207000710.D
B	J:\LC10\Data\120716_8330B-210\1207000706.D	G	J:\LC10\Data\120716_8330B-210\1207000711.D
C	J:\LC10\Data\120716_8330B-210\1207000707.D	H	J:\LC10\Data\120716_8330B-210\1207000712.D
D	J:\LC10\Data\120716_8330B-210\1207000708.D	I	J:\LC10\Data\120716_8330B-210\1207000713.D
E	J:\LC10\Data\120716_8330B-210\1207000709.D		

Analyte Name	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF	Level ID	Amt	RF
Nitroglycerin				B	100	20200	C	200	17500	D	500	22500	E	1000	21500
	F	2000	21600	G	5000	21700	H	10000	20500	I	20000	21200			
Pentaerythritol Tetranitrate				B	100	14800	C	200	18800	D	500	18000	E	1000	18000
	F	2000	17800	G	5000	18000	H	10000	17300	I	20000	18000			
1-Chloro-3-nitrobenzene	A	50	64300	B	100	56800	C	200	57700	D	500	57100	E	1000	55000
	F	2000	56200	G	5000	57700	H	10000	49600	I	20000	57300			

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: ARCADIS U.S., Inc. **Service Request:** K1701351
Project: Castner Range/06261038.0001.00400 **Calibration Date:** 12/07/2016

Initial Calibration Summary
Nitroaromatics and Nitramines (Explosives)

Calibration ID: CAL15063 **Column:** Synergi Hydro 4
Instrument ID: LC10

		Calibration Evaluation				
Analyte Name	**Compound Type**	**Fit Type**	**Eval.**	**Eval. Result**	**Q**	**Control Criteria**
Nitroglycerin	MS	AverageRF	% RSD	7.2		≤ 15
Pentaerythritol Tetranitrate	MS	AverageRF	% RSD	6.8		≤ 15
1-Chloro-3-nitrobenzene	SURR	AverageRF	% RSD	6.7		≤ 15

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: ARCADIS U.S., Inc.
Project: Castner Range/06261038.0001.00400

Service Request: K1701351
Calibration Date: 12/07/2016
Date Analyzed: 12/08/2016

Second Source Calibration Verification
Nitroaromatics and Nitramines (Explosives)

Calibration Type: External Standard
Analysis Method: 8330B

Calibration ID: CAL15063
Units: ug/L

File ID: J:\LC10\Data\120716_8330B-210\1207000715.D

Column ID: Synergi Hydro 4

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
Nitroglycerin	10000	9300	20800	19400	-7	NA	± 20 %	AverageRF
Pentaerythritol Tetranitrate	10000	9000	17600	15900	-10	NA	± 20 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound **‡ CCC Compound**

QA/QC Results

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Analyzed:**	02/15/2017

Continuing Calibration Verification Summary
Nitroaromatics and Nitramines (Explosives)

Calibration Type:	External Standard	**Calibration Date:**	12/07/2016
Analysis Method:	8330B	**Calibration ID:**	CAL15063
		Analysis Lot:	KWG1701307
		Units:	ug/L
File ID:	J:\LC10\DATA\021517-210\0215000104.D	**Column ID:**	Synergi Hydro 4

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Nitroglycerin	1000	1000	20800	21500	3	NA	± 20	AverageRF
Pentaerythritol Tetranitrate	1000	830	17600	14700	-17	NA	± 20	AverageRF
1-Chloro-3-nitrobenzene	1000	920	56900	52300	-8	NA	± 20	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: ARCADIS U.S., Inc.
Project: Castner Range/06261038.0001.00400

Service Request: K1701351
Date Analyzed: 02/15/2017

Continuing Calibration Verification Summary
Nitroaromatics and Nitramines (Explosives)

Calibration Type: External Standard
Analysis Method: 8330B

Calibration Date: 12/07/2016
Calibration ID: CAL15062
Analysis Lot: KWG1701308
Units: ug/L

File ID: J:\LC10\DATA\021517-254\0215000104.D

Column ID: Synergi Hydro R

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
HMX	1000	960	12000	11500	-4	NA	± 20	AverageRF
RDX	1000	940	19900	18800	-6	NA	± 20	AverageRF
1,3,5-Trinitrobenzene	1000	950	44700	42600	-5	NA	± 20	AverageRF
1,3-Dinitrobenzene	1000	950	60300	57400	-5	NA	± 20	AverageRF
3,5-Dinitroaniline	1000	960	47700	45600	-4	NA	± 20	AverageRF
TETRYL	1000	950	33400	31700	-5	NA	± 20	AverageRF
Nitrobenzene	1000	950	38600	36700	-5	NA	± 20	AverageRF
4-Amino-2,6-dinitrotoluene	1000	970	29500	28600	-3	NA	± 20	AverageRF
2-Amino-4,6-dinitrotoluene	1000	940	42000	39600	-6	NA	± 20	AverageRF
2,4,6-Trinitrotoluene	1000	960	41700	39900	-4	NA	± 20	AverageRF
2,6-Dinitrotoluene	1000	1000	24500	25100	3	NA	± 20	AverageRF
2,4-Dinitrotoluene	1000	950	59200	56000	-5	NA	± 20	AverageRF
2-Nitrotoluene	1000	960	18000	17300	-4	NA	± 20	AverageRF
4-Nitrotoluene	1000	950	15900	15100	-5	NA	± 20	AverageRF
3-Nitrotoluene	1000	960	20100	19400	-4	NA	± 20	AverageRF
1-Chloro-3-nitrobenzene	1000	910	21600	19800	-9	NA	± 20	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Analyzed:**	02/16/2017

Continuing Calibration Verification Summary
Nitroaromatics and Nitramines (Explosives)

Calibration Type:	External Standard	**Calibration Date:**	12/07/2016
Analysis Method:	8330B	**Calibration ID:**	CAL15063
		Analysis Lot:	KWG1701307
		Units:	ug/L
File ID:	J:\LC10\DATA\021517-210\0215000118.D	**Column ID:**	Synergi Hydro 4

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Nitroglycerin	1000	1000	20800	21200	2	NA	± 20	AverageRF
Pentaerythritol Tetranitrate	1000	900	17600	15800	-10	NA	± 20	AverageRF
1-Chloro-3-nitrobenzene	1000	970	56900	54900	-3	NA	± 20	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: ARCADIS U.S., Inc.
Project: Castner Range/06261038.0001.00400

Service Request: K1701351
Date Analyzed: 02/16/2017

Continuing Calibration Verification Summary
Nitroaromatics and Nitramines (Explosives)

Calibration Type: External Standard
Analysis Method: 8330B

Calibration Date: 12/07/2016
Calibration ID: CAL15062
Analysis Lot: KWG1701308
Units: ug/L

File ID: J:\LC10\DATA\021517-254\0215000118.D

Column ID: Synergi Hydro R

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
HMX	1000	960	12000	11500	-4	NA	± 20	AverageRF
RDX	1000	950	19900	18900	-5	NA	± 20	AverageRF
1,3,5-Trinitrobenzene	1000	950	44700	42400	-5	NA	± 20	AverageRF
1,3-Dinitrobenzene	1000	960	60300	57600	-4	NA	± 20	AverageRF
3,5-Dinitroaniline	1000	960	47700	45800	-4	NA	± 20	AverageRF
TETRYL	1000	930	33400	31100	-7	NA	± 20	AverageRF
Nitrobenzene	1000	950	38600	36700	-5	NA	± 20	AverageRF
4-Amino-2,6-dinitrotoluene	1000	980	29500	28900	-2	NA	± 20	AverageRF
2-Amino-4,6-dinitrotoluene	1000	960	42000	40300	-4	NA	± 20	AverageRF
2,4,6-Trinitrotoluene	1000	960	41700	40000	-4	NA	± 20	AverageRF
2,6-Dinitrotoluene	1000	1000	24500	24900	2	NA	± 20	AverageRF
2,4-Dinitrotoluene	1000	960	59200	56800	-4	NA	± 20	AverageRF
2-Nitrotoluene	1000	960	18000	17300	-4	NA	± 20	AverageRF
4-Nitrotoluene	1000	950	15900	15100	-5	NA	± 20	AverageRF
3-Nitrotoluene	1000	1100	20100	21700	8	NA	± 20	AverageRF
1-Chloro-3-nitrobenzene	1000	910	21600	19700	-9	NA	± 20	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: ARCADIS U.S., Inc.
Project: Castner Range/06261038.0001.00400

Service Request: K1701351
Date Analyzed: 02/16/2017

Continuing Calibration Verification Summary
Nitroaromatics and Nitramines (Explosives)

Calibration Type: External Standard
Analysis Method: 8330B

Calibration Date: 02/09/2017
Calibration ID: CAL15192
Analysis Lot: KWG1701338
Units: ug/L

File ID: J:\LC08\DATA\021617_XC-254\0216000103.D

Column ID: Ultra Aromax 5u

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
HMX	1000	930	15600	14500	-7	NA	± 20	AverageRF
RDX	1000	900	18600	16700	-10	NA	± 20	AverageRF
1,3,5-Trinitrobenzene	1000	910	42100	38200	-9	NA	± 20	AverageRF
1,3-Dinitrobenzene	1000	940	55900	52600	-6	NA	± 20	AverageRF
3,5-Dinitroaniline	1000	920	46500	42700	-8	NA	± 20	AverageRF
TETRYL	1000	940	29400	27700	-6	NA	± 20	AverageRF
Nitrobenzene	1000	930	37200	34700	-7	NA	± 20	AverageRF
4-Amino-2,6-dinitrotoluene	1000	920	31900	29400	-8	NA	± 20	AverageRF
2-Amino-4,6-dinitrotoluene	1000	910	42200	38500	-9	NA	± 20	AverageRF
2,4,6-Trinitrotoluene	1000	920	38800	35500	-8	NA	± 20	AverageRF
2,6-Dinitrotoluene	1000	900	24500	22000	-10	NA	± 20	AverageRF
2,4-Dinitrotoluene	1000	900	52600	47200	-10	NA	± 20	AverageRF
2-Nitrotoluene	1000	920	23600	21800	-8	NA	± 20	AverageRF
4-Nitrotoluene	1000	940	23300	21900	-6	NA	± 20	AverageRF
3-Nitrotoluene	1000	930	27900	25900	-7	NA	± 20	AverageRF
1-Chloro-3-nitrobenzene	1000	950	26300	25000	-5	NA	± 20	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: ARCADIS U.S., Inc. **Service Request:** K1701351
Project: Castner Range/06261038.0001.00400 **Date Analyzed:** 02/16/2017

Continuing Calibration Verification Summary
Nitroaromatics and Nitramines (Explosives)

Calibration Type: External Standard **Calibration Date:** 02/09/2017
Analysis Method: 8330B **Calibration ID:** CAL15192
Analysis Lot: KWG1701338
Units: ug/L
File ID: J:\LC08\DATA\021617_XC-254\0216000110.D **Column ID:** Ultra Aromax 5u

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
HMX	1000	940	15600	14600	-6	NA	± 20	AverageRF
RDX	1000	900	18600	16700	-10	NA	± 20	AverageRF
1,3,5-Trinitrobenzene	1000	930	42100	39100	-7	NA	± 20	AverageRF
1,3-Dinitrobenzene	1000	940	55900	52700	-6	NA	± 20	AverageRF
3,5-Dinitroaniline	1000	930	46500	43300	-7	NA	± 20	AverageRF
TETRYL	1000	950	29400	27900	-5	NA	± 20	AverageRF
Nitrobenzene	1000	940	37200	34800	-6	NA	± 20	AverageRF
4-Amino-2,6-dinitrotoluene	1000	930	31900	29600	-7	NA	± 20	AverageRF
2-Amino-4,6-dinitrotoluene	1000	910	42200	38600	-9	NA	± 20	AverageRF
2,4,6-Trinitrotoluene	1000	920	38800	35800	-8	NA	± 20	AverageRF
2,6-Dinitrotoluene	1000	910	24500	22400	-9	NA	± 20	AverageRF
2,4-Dinitrotoluene	1000	910	52600	47800	-9	NA	± 20	AverageRF
2-Nitrotoluene	1000	930	23600	21800	-7	NA	± 20	AverageRF
4-Nitrotoluene	1000	930	23300	21800	-7	NA	± 20	AverageRF
3-Nitrotoluene	1000	930	27900	26000	-7	NA	± 20	AverageRF
1-Chloro-3-nitrobenzene	1000	950	26300	25000	-5	NA	± 20	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: ARCADIS U.S., Inc. **Service Request:** K1701351
Project: Castner Range/06261038.0001.00400 **Date Analyzed:** 03/02/2017

Continuing Calibration Verification Summary
Nitroaromatics and Nitramines (Explosives)

Calibration Type: External Standard **Calibration Date:** 12/07/2016
Analysis Method: 8330B **Calibration ID:** CAL15062
Analysis Lot: KWG1701858
Units: ug/L
File ID: J:\LC10\DATA\030317_8330_254\03020000204. **Column ID:** Synergi Hydro R

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
HMX	1000	1000	12000	11900	0	NA	± 20	AverageRF
RDX	1000	990	19900	19700	-1	NA	± 20	AverageRF
1,3,5-Trinitrobenzene	1000	990	44700	44200	-1	NA	± 20	AverageRF
1,3-Dinitrobenzene	1000	980	60300	59100	-2	NA	± 20	AverageRF
3,5-Dinitroaniline	1000	990	47700	47200	-1	NA	± 20	AverageRF
TETRYL	1000	970	33400	32500	-3	NA	± 20	AverageRF
Nitrobenzene	1000	980	38600	37900	-2	NA	± 20	AverageRF
4-Amino-2,6-dinitrotoluene	1000	1000	29500	29600	0	NA	± 20	AverageRF
2-Amino-4,6-dinitrotoluene	1000	980	42000	41200	-2	NA	± 20	AverageRF
2,4,6-Trinitrotoluene	1000	990	41700	41300	-1	NA	± 20	AverageRF
2,6-Dinitrotoluene	1000	1000	24500	25100	3	NA	± 20	AverageRF
2,4-Dinitrotoluene	1000	980	59200	58200	-2	NA	± 20	AverageRF
2-Nitrotoluene	1000	1000	18000	18000	0	NA	± 20	AverageRF
4-Nitrotoluene	1000	980	15900	15600	-2	NA	± 20	AverageRF
3-Nitrotoluene	1000	990	20100	19800	-1	NA	± 20	AverageRF
1-Chloro-3-nitrobenzene	1000	940	21600	20300	-6	NA	± 20	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Analyzed:**	03/02/2017

Continuing Calibration Verification Summary
Nitroaromatics and Nitramines (Explosives)

Calibration Type:	External Standard	**Calibration Date:**	12/07/2016
Analysis Method:	8330B	**Calibration ID:**	CAL15063
		Analysis Lot:	KWG1701860
		Units:	ug/L
File ID:	J:\LC10\DATA\030317_8330_210\03020000204.	**Column ID:**	Synergi Hydro 4

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Nitroglycerin	1000	1000	20800	20900	0	NA	± 20	AverageRF
Pentaerythritol Tetranitrate	1000	890	17600	15700	-11	NA	± 20	AverageRF
1-Chloro-3-nitrobenzene	1000	990	56900	56300	-1	NA	± 20	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: ARCADIS U.S., Inc.
Project: Castner Range/06261038.0001.00400

Service Request: K1701351
Date Analyzed: 03/02/2017

Continuing Calibration Verification Summary
Nitroaromatics and Nitramines (Explosives)

Calibration Type: External Standard
Analysis Method: 8330B

Calibration Date: 12/07/2016
Calibration ID: CAL15062
Analysis Lot: KWG1701858
Units: ug/L

File ID: J:\LC10\DATA\030317_8330_254\03020000210.

Column ID: Synergi Hydro R

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
HMX	1000	1000	12000	12000	0	NA	± 20	AverageRF
RDX	1000	980	19900	19500	-2	NA	± 20	AverageRF
1,3,5-Trinitrobenzene	1000	990	44700	44400	-1	NA	± 20	AverageRF
1,3-Dinitrobenzene	1000	990	60300	59900	-1	NA	± 20	AverageRF
TETRYL	1000	960	33400	32200	-4	NA	± 20	AverageRF
Nitrobenzene	1000	980	38600	37900	-2	NA	± 20	AverageRF
4-Amino-2,6-dinitrotoluene	1000	1000	29500	30200	2	NA	± 20	AverageRF
2-Amino-4,6-dinitrotoluene	1000	1000	42000	41900	0	NA	± 20	AverageRF
2,4,6-Trinitrotoluene	1000	1000	41700	41600	0	NA	± 20	AverageRF
2,6-Dinitrotoluene	1000	1100	24500	26900	10	NA	± 20	AverageRF
2,4-Dinitrotoluene	1000	970	59200	57400	-3	NA	± 20	AverageRF
2-Nitrotoluene	1000	1000	18000	18000	0	NA	± 20	AverageRF
4-Nitrotoluene	1000	980	15900	15600	-2	NA	± 20	AverageRF
3-Nitrotoluene	1000	1000	20100	20700	3	NA	± 20	AverageRF
1-Chloro-3-nitrobenzene	1000	950	21600	20600	-5	NA	± 20	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: ARCADIS U.S., Inc.
Project: Castner Range/06261038.0001.00400

Service Request: K1701351
Date Analyzed: 03/02/2017

Continuing Calibration Verification Summary
Nitroaromatics and Nitramines (Explosives)

Calibration Type: External Standard
Analysis Method: 8330B

Calibration Date: 12/07/2016
Calibration ID: CAL15063
Analysis Lot: KWG1701860
Units: ug/L

File ID: J:\LC10\DATA\030317_8330_210\03020000210.

Column ID: Synergi Hydro 4

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Nitroglycerin	1000	1000	20800	21100	1	NA	± 20	AverageRF
Pentaerythritol Tetranitrate	1000	920	17600	16300	-8	NA	± 20	AverageRF
1-Chloro-3-nitrobenzene	1000	970	56900	55400	-3	NA	± 20	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: ARCADIS U.S., Inc.
Project: Castner Range/06261038.0001.00400

Service Request: K1701351
Date Analyzed: 03/03/2017

Continuing Calibration Verification Summary
Nitroaromatics and Nitramines (Explosives)

Calibration Type: External Standard
Analysis Method: 8330B

Calibration Date: 12/07/2016
Calibration ID: CAL15062
Analysis Lot: KWG1701858
Units: ug/L

File ID: J:\LC10\DATA\030317_8330_254\03020000221.

Column ID: Synergi Hydro R

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
HMX	1000	1000	12000	12000	0	NA	± 20	AverageRF
RDX	1000	990	19900	19600	-1	NA	± 20	AverageRF
1,3,5-Trinitrobenzene	1000	990	44700	44300	-1	NA	± 20	AverageRF
1,3-Dinitrobenzene	1000	1000	60300	60200	0	NA	± 20	AverageRF
TETRYL	1000	950	33400	31900	-5	NA	± 20	AverageRF
Nitrobenzene	1000	980	38600	37700	-2	NA	± 20	AverageRF
4-Amino-2,6-dinitrotoluene	1000	1000	29500	30000	2	NA	± 20	AverageRF
2-Amino-4,6-dinitrotoluene	1000	1000	42000	41800	0	NA	± 20	AverageRF
2,4,6-Trinitrotoluene	1000	1000	41700	41500	0	NA	± 20	AverageRF
2,6-Dinitrotoluene	1000	1100	24500	27500	12	NA	± 20	AverageRF
2,4-Dinitrotoluene	1000	960	59200	57100	-4	NA	± 20	AverageRF
2-Nitrotoluene	1000	1000	18000	17900	0	NA	± 20	AverageRF
4-Nitrotoluene	1000	990	15900	15600	-1	NA	± 20	AverageRF
3-Nitrotoluene	1000	1000	20100	20700	3	NA	± 20	AverageRF
1-Chloro-3-nitrobenzene	1000	960	21600	20600	-4	NA	± 20	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: ARCADIS U.S., Inc.
Project: Castner Range/06261038.0001.00400

Service Request: K1701351
Date Analyzed: 03/03/2017

Continuing Calibration Verification Summary
Nitroaromatics and Nitramines (Explosives)

Calibration Type: External Standard
Analysis Method: 8330B

Calibration Date: 12/07/2016
Calibration ID: CAL15063
Analysis Lot: KWG1701860
Units: ug/L

File ID: J:\LC10\DATA\030317_8330_210\03020000221.

Column ID: Synergi Hydro 4

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Nitroglycerin	1000	990	20800	20700	-1	NA	± 20	AverageRF
Pentaerythritol Tetranitrate	1000	900	17600	15800	-10	NA	± 20	AverageRF
1-Chloro-3-nitrobenzene	1000	970	56900	55300	-3	NA	± 20	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: ARCADIS U.S., Inc.
Project: Castner Range/06261038.0001.00400

Service Request: K1701351
Date Analyzed: 03/03/2017

Continuing Calibration Verification Summary
Nitroaromatics and Nitramines (Explosives)

Calibration Type: External Standard
Analysis Method: 8330B

Calibration Date: 12/07/2016
Calibration ID: CAL15062
Analysis Lot: KWG1701858
Units: ug/L

File ID: J:\LC10\DATA\030317_8330_254\03020000227.

Column ID: Synergi Hydro R

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
HMX	1000	1000	12000	12100	1	NA	± 20	AverageRF
RDX	1000	990	19900	19600	-1	NA	± 20	AverageRF
1,3,5-Trinitrobenzene	1000	1000	44700	44600	0	NA	± 20	AverageRF
1,3-Dinitrobenzene	1000	1000	60300	60600	0	NA	± 20	AverageRF
TETRYL	1000	960	33400	32100	-4	NA	± 20	AverageRF
Nitrobenzene	1000	980	38600	37900	-2	NA	± 20	AverageRF
4-Amino-2,6-dinitrotoluene	1000	1100	29500	32100	9	NA	± 20	AverageRF
2-Amino-4,6-dinitrotoluene	1000	1100	42000	44600	6	NA	± 20	AverageRF
2,4,6-Trinitrotoluene	1000	1000	41700	41700	0	NA	± 20	AverageRF
2,6-Dinitrotoluene	1000	1100	24500	27600	13	NA	± 20	AverageRF
2,4-Dinitrotoluene	1000	970	59200	57300	-3	NA	± 20	AverageRF
2-Nitrotoluene	1000	1000	18000	18000	0	NA	± 20	AverageRF
4-Nitrotoluene	1000	990	15900	15700	-1	NA	± 20	AverageRF
3-Nitrotoluene	1000	1000	20100	20600	2	NA	± 20	AverageRF
1-Chloro-3-nitrobenzene	1000	970	21600	21000	-3	NA	± 20	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: ARCADIS U.S., Inc.
Project: Castner Range/06261038.0001.00400

Service Request: K1701351
Date Analyzed: 03/03/2017

Continuing Calibration Verification Summary
Nitroaromatics and Nitramines (Explosives)

Calibration Type: External Standard
Analysis Method: 8330B

Calibration Date: 12/07/2016
Calibration ID: CAL15063
Analysis Lot: KWG1701860
Units: ug/L

File ID: J:\LC10\DATA\030317_8330_210\03020000227.

Column ID: Synergi Hydro 4

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Nitroglycerin	1000	1100	20800	22100	6	NA	± 20	AverageRF
Pentaerythritol Tetranitrate	1000	890	17600	15600	-11	NA	± 20	AverageRF
1-Chloro-3-nitrobenzene	1000	1000	56900	56900	0	NA	± 20	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: ARCADIS U.S., Inc.
Project: Castner Range/06261038.0001.00400

Service Request: K1701351
Date Analyzed: 03/03/2017

Continuing Calibration Verification Summary
Nitroaromatics and Nitramines (Explosives)

Calibration Type: External Standard
Analysis Method: 8330B

Calibration Date: 12/07/2016
Calibration ID: CAL15062
Analysis Lot: KWG1701858
Units: ug/L

File ID: J:\LC10\DATA\030317_8330_254\03020000234.

Column ID: Synergi Hydro R

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
HMX	1000	1000	12000	12100	1	NA	± 20	AverageRF
RDX	1000	990	19900	19700	-1	NA	± 20	AverageRF
1,3,5-Trinitrobenzene	1000	1000	44700	44600	0	NA	± 20	AverageRF
1,3-Dinitrobenzene	1000	1000	60300	60700	1	NA	± 20	AverageRF
TETRYL	1000	930	33400	31100	-7	NA	± 20	AverageRF
Nitrobenzene	1000	980	38600	38000	-2	NA	± 20	AverageRF
4-Amino-2,6-dinitrotoluene	1000	1000	29500	30200	2	NA	± 20	AverageRF
2-Amino-4,6-dinitrotoluene	1000	1000	42000	42200	1	NA	± 20	AverageRF
2,4,6-Trinitrotoluene	1000	1000	41700	41700	0	NA	± 20	AverageRF
2,6-Dinitrotoluene	1000	1100	24500	26100	7	NA	± 20	AverageRF
2,4-Dinitrotoluene	1000	1000	59200	59300	0	NA	± 20	AverageRF
2-Nitrotoluene	1000	1000	18000	17900	0	NA	± 20	AverageRF
4-Nitrotoluene	1000	980	15900	15500	-2	NA	± 20	AverageRF
3-Nitrotoluene	1000	1000	20100	20700	3	NA	± 20	AverageRF
1-Chloro-3-nitrobenzene	1000	970	21600	21000	-3	NA	± 20	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Analyzed:**	03/03/2017

Continuing Calibration Verification Summary
Nitroaromatics and Nitramines (Explosives)

Calibration Type:	External Standard	**Calibration Date:**	12/07/2016
Analysis Method:	8330B	**Calibration ID:**	CAL15063
		Analysis Lot:	KWG1701860
		Units:	ug/L
File ID:	J:\LC10\DATA\030317_8330_210\03020000234.	**Column ID:**	Synergi Hydro 4

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Nitroglycerin	1000	1000	20800	21800	5	NA	± 20	AverageRF
Pentaerythritol Tetranitrate	1000	850	17600	15000	-15	NA	± 20	AverageRF
1-Chloro-3-nitrobenzene	1000	1000	56900	57000	0	NA	± 20	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: ARCADIS U.S., Inc. **Service Request:** K1701351
Project: Castner Range/06261038.0001.00400 **Date Analyzed:** 03/04/2017

Continuing Calibration Verification Summary
Nitroaromatics and Nitramines (Explosives)

Calibration Type: External Standard **Calibration Date:** 02/09/2017
Analysis Method: 8330B **Calibration ID:** CAL15192
Analysis Lot: KWG1701981
Units: ug/L
File ID: J:\LC08\DATA\030317_8330_254\03030000121. **Column ID:** Ultra Aromax 5u

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
HMX	1000	970	15600	15100	-3	NA	± 20	AverageRF
RDX	1000	910	18600	16900	-9	NA	± 20	AverageRF
1,3,5-Trinitrobenzene	1000	940	42100	39500	-6	NA	± 20	AverageRF
1,3-Dinitrobenzene	1000	1000	55900	56200	0	NA	± 20	AverageRF
3,5-Dinitroaniline	1000	950	46500	44300	-5	NA	± 20	AverageRF
TETRYL	1000	930	29400	27400	-7	NA	± 20	AverageRF
Nitrobenzene	1000	920	37200	34300	-8	NA	± 20	AverageRF
4-Amino-2,6-dinitrotoluene	1000	950	31900	30300	-5	NA	± 20	AverageRF
2-Amino-4,6-dinitrotoluene	1000	950	42200	39900	-5	NA	± 20	AverageRF
2,4,6-Trinitrotoluene	1000	940	38800	36700	-6	NA	± 20	AverageRF
2,6-Dinitrotoluene	1000	870	24500	21400	-13	NA	± 20	AverageRF
2,4-Dinitrotoluene	1000	930	52600	48700	-7	NA	± 20	AverageRF
2-Nitrotoluene	1000	940	23600	22100	-6	NA	± 20	AverageRF
4-Nitrotoluene	1000	900	23300	21100	-10	NA	± 20	AverageRF
3-Nitrotoluene	1000	930	27900	26000	-7	NA	± 20	AverageRF
1-Chloro-3-nitrobenzene	1000	930	26300	24600	-7	NA	± 20	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: ARCADIS U.S., Inc.
Project: Castner Range/06261038.0001.00400

Service Request: K1701351
Date Analyzed: 03/04/2017

Continuing Calibration Verification Summary
Nitroaromatics and Nitramines (Explosives)

Calibration Type: External Standard
Analysis Method: 8330B

Calibration Date: 02/09/2017
Calibration ID: CAL15185
Analysis Lot: KWG1702121
Units: ug/L

File ID: J:\LC08\DATA\030317_8330_210\03030000121.

Column ID: Ultra Aromax 5u

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Nitroglycerin	1000	980	20900	20400	-2	NA	± 20	AverageRF
Pentaerythritol Tetranitrate	1000	1000	81900	82600	1	NA	± 20	AverageRF
1-Chloro-3-nitrobenzene	1000	1000	69600	72400	4	NA	± 20	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: ARCADIS U.S., Inc.
Project: Castner Range/06261038.0001.00400

Service Request: K1701351
Date Analyzed: 03/04/2017

Continuing Calibration Verification Summary
Nitroaromatics and Nitramines (Explosives)

Calibration Type: External Standard
Analysis Method: 8330B

Calibration Date: 02/09/2017
Calibration ID: CAL15192
Analysis Lot: KWG1701981
Units: ug/L

File ID: J:\LC08\DATA\030317_8330_254\03030000127.

Column ID: Ultra Aromax 5u

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
HMX	1000	920	15600	14400	-8	NA	± 20	AverageRF
RDX	1000	880	18600	16300	-12	NA	± 20	AverageRF
1,3,5-Trinitrobenzene	1000	900	42100	38000	-10	NA	± 20	AverageRF
1,3-Dinitrobenzene	1000	890	55900	49800	-11	NA	± 20	AverageRF
3,5-Dinitroaniline	1000	910	46500	42500	-9	NA	± 20	AverageRF
TETRYL	1000	920	29400	26900	-8	NA	± 20	AverageRF
Nitrobenzene	1000	910	37200	34000	-9	NA	± 20	AverageRF
4-Amino-2,6-dinitrotoluene	1000	910	31900	29000	-9	NA	± 20	AverageRF
2-Amino-4,6-dinitrotoluene	1000	910	42200	38300	-9	NA	± 20	AverageRF
2,4,6-Trinitrotoluene	1000	900	38800	34800	-10	NA	± 20	AverageRF
2,6-Dinitrotoluene	1000	890	24500	21800	-11	NA	± 20	AverageRF
2,4-Dinitrotoluene	1000	880	52600	46100	-12	NA	± 20	AverageRF
2-Nitrotoluene	1000	920	23600	21700	-8	NA	± 20	AverageRF
4-Nitrotoluene	1000	870	23300	20200	-13	NA	± 20	AverageRF
3-Nitrotoluene	1000	900	27900	25300	-10	NA	± 20	AverageRF
1-Chloro-3-nitrobenzene	1000	930	26300	24400	-7	NA	± 20	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

QA/QC Results

Client: ARCADIS U.S., Inc.
Project: Castner Range/06261038.0001.00400

Service Request: K1701351
Date Analyzed: 03/04/2017

Continuing Calibration Verification Summary
Nitroaromatics and Nitramines (Explosives)

Calibration Type: External Standard
Analysis Method: 8330B

Calibration Date: 02/09/2017
Calibration ID: CAL15185
Analysis Lot: KWG1702121
Units: ug/L

File ID: J:\LC08\DATA\030317_8330_210\03030000127.

Column ID: Ultra Aromax 5u

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Nitroglycerin	1000	980	20900	20500	-2	NA	± 20	AverageRF
Pentaerythritol Tetranitrate	1000	920	81900	75800	-8	NA	± 20	AverageRF
1-Chloro-3-nitrobenzene	1000	960	69600	66400	-4	NA	± 20	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

Client: ARCADIS U.S., Inc. **Service Request:** K1701351
Project: Castner Range/06261038.0001.00400

Analysis Run Log
Nitroaromatics and Nitramines (Explosives)

Analysis Method: 8330B **Analysis Lot:** KWG1701338
Instrument ID: LC08
Column: Ultra Aromax 5u

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
16000102.D	Instrument Blank	KWG1701338-1	2/16/2017	11:51		2/16/2017	12:26
16000103.D	Continuing Calibration Verification	KWG1701338-2	2/16/2017	12:28		2/16/2017	13:03
16000104.D	ZZZZZZ	ZZZZZZ	2/16/2017	13:05		2/16/2017	13:40
16000105.D	Method Blank	KWG1701217-3	2/16/2017	13:42		2/16/2017	14:17
16000107.D	EB-020817	K1701351-017	2/16/2017	14:55		2/16/2017	15:30
16000108.D	EB-020917	K1701351-018	2/16/2017	15:32		2/16/2017	16:07
16000109.D	ZZZZZZ	ZZZZZZ	2/16/2017	16:09		2/16/2017	16:44
16000110.D	Continuing Calibration Verification	KWG1701338-4	2/16/2017	16:46		2/16/2017	17:21
16000111.D	Instrument Blank	KWG1701338-3	2/16/2017	17:23		2/16/2017	17:58

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: ARCADIS U.S., Inc. **Service Request:** K1701351
Project: Castner Range/06261038.0001.00400

Analysis Run Log
Nitroaromatics and Nitramines (Explosives)

Analysis Method: 8330B **Analysis Lot:** KWG1701981
Instrument ID: LC08
Column: Ultra Aromax 5u

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
30000121.D	Continuing Calibration Verification	KWG1701981-1	3/4/2017	03:46		3/4/2017	04:21
30000122.D	Instrument Blank	KWG1701981-3	3/4/2017	04:23		3/4/2017	04:58
30000124.D	FTBL-SB-03-0-0.5-020817	K1701351-012	3/4/2017	05:36		3/4/2017	06:11
30000125.D	ZZZZZZ	ZZZZZZ	3/4/2017	06:13		3/4/2017	06:48
30000127.D	Continuing Calibration Verification	KWG1701981-2	3/4/2017	07:27		3/4/2017	08:02
30000128.D	Instrument Blank	KWG1701981-4	3/4/2017	08:04		3/4/2017	08:39

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: ARCADIS U.S., Inc. **Service Request:** K1701351
Project: Castner Range/06261038.0001.00400

Analysis Run Log
Nitroaromatics and Nitramines (Explosives)

Analysis Method: 8330B **Analysis Lot:** KWG1702121
Instrument ID: LC08
Column: Ultra Aromax 5u

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
30000121.D	Continuing Calibration Verification	KWG1702121-1	3/4/2017	03:46		3/4/2017	04:21
30000122.D	Instrument Blank	KWG1702121-3	3/4/2017	04:23		3/4/2017	04:58
30000124.D	FTBL-SB-03-0-0.5-020817	K1701351-012	3/4/2017	05:36		3/4/2017	06:11
30000127.D	Continuing Calibration Verification	KWG1702121-2	3/4/2017	07:27		3/4/2017	08:02
30000128.D	Instrument Blank	KWG1702121-4	3/4/2017	08:04		3/4/2017	08:39
30000134.D	Continuing Calibration Verification	KWG1702121-5	3/4/2017	11:45		3/4/2017	12:20
30000135.D	Instrument Blank	KWG1702121-7	3/4/2017	12:22		3/4/2017	12:57
30000144.D	ZZZZZZ	ZZZZZZ	3/4/2017	17:54		3/4/2017	18:29
30000145.D	Continuing Calibration Verification	KWG1702121-6	3/4/2017	18:30		3/4/2017	19:05
30000146.D	Instrument Blank	KWG1702121-8	3/4/2017	19:07		3/4/2017	19:42

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: ARCADIS U.S., Inc. **Service Request:** K1701351
Project: Castner Range/06261038.0001.00400

Analysis Run Log
Nitroaromatics and Nitramines (Explosives)

Analysis Method: 8330B **Analysis Lot:** KWG1701307
Instrument ID: LC10
Column: Synergi Hydro 4

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
15000103.D	Instrument Blank	KWG1701307-1	2/15/2017	17:54		2/15/2017	18:27
15000104.D	Continuing Calibration Verification	KWG1701307-2	2/15/2017	18:31		2/15/2017	19:04
15000105.D	ZZZZZZ	ZZZZZZ	2/15/2017	19:07		2/15/2017	19:40
15000106.D	Method Blank	KWG1701217-3	2/15/2017	19:43		2/15/2017	20:16
15000107.D	ZZZZZZ	ZZZZZZ	2/15/2017	20:19		2/15/2017	20:52
15000108.D	Lab Control Sample	KWG1701217-1	2/15/2017	20:55		2/15/2017	21:28
15000109.D	Duplicate Lab Control Sample	KWG1701217-2	2/15/2017	21:32		2/15/2017	22:05
15000110.D	EB-020717	K1701351-016	2/15/2017	22:08		2/15/2017	22:41
15000111.D	EB-020817	K1701351-017	2/15/2017	22:44		2/15/2017	23:17
15000112.D	EB-020917	K1701351-018	2/15/2017	23:20		2/15/2017	23:53
15000113.D	ZZZZZZ	ZZZZZZ	2/15/2017	23:57		2/16/2017	00:30
15000114.D	ZZZZZZ	ZZZZZZ	2/16/2017	00:33		2/16/2017	01:06
15000115.D	ZZZZZZ	ZZZZZZ	2/16/2017	01:09		2/16/2017	01:42
15000118.D	Continuing Calibration Verification	KWG1701307-4	2/16/2017	02:58		2/16/2017	03:31
15000119.D	Instrument Blank	KWG1701307-3	2/16/2017	03:34		2/16/2017	04:07

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: ARCADIS U.S., Inc. **Service Request:** K1701351
Project: Castner Range/06261038.0001.00400

Analysis Run Log
Nitroaromatics and Nitramines (Explosives)

Analysis Method: 8330B **Analysis Lot:** KWG1701308
Instrument ID: LC10
Column: Synergi Hydro R

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
15000103.D	Instrument Blank	KWG1701308-1	2/15/2017	17:54		2/15/2017	18:27
15000104.D	Continuing Calibration Verification	KWG1701308-2	2/15/2017	18:31		2/15/2017	19:04
15000105.D	ZZZZZZ	ZZZZZZ	2/15/2017	19:07		2/15/2017	19:40
15000106.D	Method Blank	KWG1701217-3	2/15/2017	19:43		2/15/2017	20:16
15000107.D	ZZZZZZ	ZZZZZZ	2/15/2017	20:19		2/15/2017	20:52
15000108.D	Lab Control Sample	KWG1701217-1	2/15/2017	20:55		2/15/2017	21:28
15000109.D	Duplicate Lab Control Sample	KWG1701217-2	2/15/2017	21:32		2/15/2017	22:05
15000110.D	EB-020717	K1701351-016	2/15/2017	22:08		2/15/2017	22:41
15000111.D	EB-020817	K1701351-017	2/15/2017	22:44		2/15/2017	23:17
15000112.D	EB-020917	K1701351-018	2/15/2017	23:20		2/15/2017	23:53
15000113.D	ZZZZZZ	ZZZZZZ	2/15/2017	23:57		2/16/2017	00:30
15000114.D	ZZZZZZ	ZZZZZZ	2/16/2017	00:33		2/16/2017	01:06
15000115.D	ZZZZZZ	ZZZZZZ	2/16/2017	01:09		2/16/2017	01:42
15000118.D	Continuing Calibration Verification	KWG1701308-4	2/16/2017	02:58		2/16/2017	03:31
15000119.D	Instrument Blank	KWG1701308-3	2/16/2017	03:34		2/16/2017	04:07

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client: ARCADIS U.S., Inc. **Service Request:** K1701351
Project: Castner Range/06261038.0001.00400

Analysis Run Log
Nitroaromatics and Nitramines (Explosives)

Analysis Method: 8330B **Analysis Lot:** KWG1701858
Instrument ID: LC10
Column: Synergi Hydro R

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
20000203.D	Instrument Blank	KWG1701858-2	3/2/2017	13:12		3/2/2017	13:45
20000204.D	Continuing Calibration Verification	KWG1701858-1	3/2/2017	13:48		3/2/2017	14:21
20000205.D	Method Blank	KWG1701417-9	3/2/2017	14:24		3/2/2017	14:57
20000206.D	Lab Control Sample	KWG1701417-8	3/2/2017	15:01		3/2/2017	15:34
20000207.D	Storage Blank	KWG1701417-6	3/2/2017	15:37		3/2/2017	16:10
20000208.D	Storage Blank	KWG1701417-7	3/2/2017	16:13		3/2/2017	16:46
20000209.D	Standard Reference Material	KWG1701417-5	3/2/2017	16:49		3/2/2017	17:22
20000210.D	Continuing Calibration Verification	KWG1701858-3	3/2/2017	17:26		3/2/2017	17:59
20000211.D	Instrument Blank	KWG1701858-4	3/2/2017	18:02		3/2/2017	18:35
20000212.D	FD-020817	K1701351-002	3/2/2017	18:38		3/2/2017	19:11
20000213.D	FTBL-SB-02-0-0.5-020817	K1701351-003	3/2/2017	19:14		3/2/2017	19:47
20000214.D	FTBL-SB-02-0.5-2-020817	K1701351-004	3/2/2017	19:51		3/2/2017	20:24
20000215.D	FTBL-SB-02-4-5.5-020817	K1701351-005	3/2/2017	20:27		3/2/2017	21:00
20000216.D	FTBL-SB-01D-0-0.5-020717	K1701351-006	3/2/2017	21:03		3/2/2017	21:36
20000217.D	FTBL-SB-01D-0.5-2-020717	K1701351-007	3/2/2017	21:39		3/2/2017	22:12
20000218.D	FTBL-SB-01D-4-6-020717	K1701351-008	3/2/2017	22:15		3/2/2017	22:48
20000219.D	FTBL-SB-01-0-0.5-020717	K1701351-009	3/2/2017	22:52		3/2/2017	23:25
20000220.D	FTBL-SB-01-0.5-2-020717	K1701351-010	3/2/2017	23:28		3/3/2017	00:01
20000221.D	Continuing Calibration Verification	KWG1701858-5	3/3/2017	00:04		3/3/2017	00:37
20000222.D	Instrument Blank	KWG1701858-6	3/3/2017	00:40		3/3/2017	01:13
20000223.D	FTBL-SB-01-4-6-020717	K1701351-011	3/3/2017	01:17		3/3/2017	01:50
20000224.D	FTBL-SB-03-0-0.5-020817	K1701351-012	3/3/2017	01:53		3/3/2017	02:26
20000225.D	FTBL-SB-03-6-8-020817	K1701351-013	3/3/2017	02:29		3/3/2017	03:02
20000226.D	FTBL-SB03-28-30-020917	K1701351-015	3/3/2017	03:05		3/3/2017	03:38
20000227.D	Continuing Calibration Verification	KWG1701858-7	3/3/2017	03:42		3/3/2017	04:15
20000228.D	Instrument Blank	KWG1701858-8	3/3/2017	04:18		3/3/2017	04:51
20000229.D	FD-020717	K1701351-001	3/3/2017	04:54		3/3/2017	05:27
20000230.D	FD-020717DUP	KWG1701417-1	3/3/2017	05:30		3/3/2017	06:03
20000231.D	FD-020717TRP	KWG1701417-2	3/3/2017	06:06		3/3/2017	06:39
20000232.D	FD-020717MS	KWG1701417-3	3/3/2017	06:43		3/3/2017	07:16
20000233.D	FD-020717DMS	KWG1701417-4	3/3/2017	07:19		3/3/2017	07:52
20000234.D	Continuing Calibration Verification	KWG1701858-9	3/3/2017	07:55		3/3/2017	08:28
20000235.D	Instrument Blank	KWG1701858-10	3/3/2017	08:31		3/3/2017	09:04
20000236.D	ZZZZZZ	ZZZZZZ	3/3/2017	09:08		3/3/2017	09:41

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: ARCADIS U.S., Inc. **Service Request:** K1701351
Project: Castner Range/06261038.0001.00400

Analysis Run Log
Nitroaromatics and Nitramines (Explosives)

Analysis Method: 8330B **Analysis Lot:** KWG1701858
Instrument ID: LC10
Column: Synergi Hydro R

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
20000237.D	ZZZZZZ	ZZZZZZ	3/3/2017	09:44		3/3/2017	10:17
20000238.D	ZZZZZZ	ZZZZZZ	3/3/2017	10:20		3/3/2017	10:53
20000239.D	ZZZZZZ	ZZZZZZ	3/3/2017	10:56		3/3/2017	11:29
20000240.D	ZZZZZZ	ZZZZZZ	3/3/2017	11:33		3/3/2017	12:06
20000241.D	ZZZZZZ	ZZZZZZ	3/3/2017	12:09		3/3/2017	12:42
20000242.D	ZZZZZZ	ZZZZZZ	3/3/2017	12:45		3/3/2017	13:18
20000243.D	ZZZZZZ	ZZZZZZ	3/3/2017	13:21		3/3/2017	13:54
20000244.D	ZZZZZZ	ZZZZZZ	3/3/2017	13:57		3/3/2017	14:30
20000245.D	Continuing Calibration Verification	KWG1701858-11	3/3/2017	14:34		3/3/2017	15:07
20000246.D	Instrument Blank	KWG1701858-12	3/3/2017	15:10		3/3/2017	15:43
20000247.D	ZZZZZZ	ZZZZZZ	3/3/2017	15:46		3/3/2017	16:19
20000248.D	ZZZZZZ	ZZZZZZ	3/3/2017	16:22		3/3/2017	16:55
20000249.D	ZZZZZZ	ZZZZZZ	3/3/2017	16:59		3/3/2017	17:32
20000250.D	ZZZZZZ	ZZZZZZ	3/3/2017	17:35		3/3/2017	18:08
20000251.D	ZZZZZZ	ZZZZZZ	3/3/2017	18:11		3/3/2017	18:44
20000252.D	ZZZZZZ	ZZZZZZ	3/3/2017	18:47		3/3/2017	19:20
20000253.D	ZZZZZZ	ZZZZZZ	3/3/2017	19:24		3/3/2017	19:57
20000254.D	Continuing Calibration Verification	KWG1701858-13	3/3/2017	20:00		3/3/2017	20:33
20000255.D	Instrument Blank	KWG1701858-14	3/3/2017	20:36		3/3/2017	21:09

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

ALS Group USA, Corp. dba ALS Environmental

QA/QC Results

Client: ARCADIS U.S., Inc. **Service Request:** K1701351
Project: Castner Range/06261038.0001.00400

Analysis Run Log
Nitroaromatics and Nitramines (Explosives)

Analysis Method: 8330B **Analysis Lot:** KWG1701860
Instrument ID: LC10
Column: Synergi Hydro 4

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
20000203.D	Instrument Blank	KWG1701860-2	3/2/2017	13:12		3/2/2017	13:45
20000204.D	Continuing Calibration Verification	KWG1701860-1	3/2/2017	13:48		3/2/2017	14:21
20000205.D	Method Blank	KWG1701417-9	3/2/2017	14:24		3/2/2017	14:57
20000206.D	Lab Control Sample	KWG1701417-8	3/2/2017	15:01		3/2/2017	15:34
20000207.D	Storage Blank	KWG1701417-6	3/2/2017	15:37		3/2/2017	16:10
20000208.D	Storage Blank	KWG1701417-7	3/2/2017	16:13		3/2/2017	16:46
20000209.D	Standard Reference Material	KWG1701417-5	3/2/2017	16:49		3/2/2017	17:22
20000210.D	Continuing Calibration Verification	KWG1701860-3	3/2/2017	17:26		3/2/2017	17:59
20000211.D	Instrument Blank	KWG1701860-4	3/2/2017	18:02		3/2/2017	18:35
20000212.D	FD-020817	K1701351-002	3/2/2017	18:38		3/2/2017	19:11
20000213.D	FTBL-SB-02-0-0.5-020817	K1701351-003	3/2/2017	19:14		3/2/2017	19:47
20000214.D	FTBL-SB-02-0.5-2-020817	K1701351-004	3/2/2017	19:51		3/2/2017	20:24
20000215.D	FTBL-SB-02-4-5.5-020817	K1701351-005	3/2/2017	20:27		3/2/2017	21:00
20000216.D	FTBL-SB-01D-0-0.5-020717	K1701351-006	3/2/2017	21:03		3/2/2017	21:36
20000217.D	FTBL-SB-01D-0.5-2-020717	K1701351-007	3/2/2017	21:39		3/2/2017	22:12
20000218.D	FTBL-SB-01D-4-6-020717	K1701351-008	3/2/2017	22:15		3/2/2017	22:48
20000219.D	FTBL-SB-01-0-0.5-020717	K1701351-009	3/2/2017	22:52		3/2/2017	23:25
20000220.D	FTBL-SB-01-0.5-2-020717	K1701351-010	3/2/2017	23:28		3/3/2017	00:01
20000221.D	Continuing Calibration Verification	KWG1701860-5	3/3/2017	00:04		3/3/2017	00:37
20000222.D	Instrument Blank	KWG1701860-6	3/3/2017	00:40		3/3/2017	01:13
20000223.D	FTBL-SB-01-4-6-020717	K1701351-011	3/3/2017	01:17		3/3/2017	01:50
20000224.D	FTBL-SB-03-0-0.5-020817	K1701351-012	3/3/2017	01:53		3/3/2017	02:26
20000225.D	FTBL-SB-03-6-8-020817	K1701351-013	3/3/2017	02:29		3/3/2017	03:02
20000226.D	FTBL-SB03-28-30-020917	K1701351-015	3/3/2017	03:05		3/3/2017	03:38
20000227.D	Continuing Calibration Verification	KWG1701860-7	3/3/2017	03:42		3/3/2017	04:15
20000228.D	Instrument Blank	KWG1701860-8	3/3/2017	04:18		3/3/2017	04:51
20000229.D	FD-020717	K1701351-001	3/3/2017	04:54		3/3/2017	05:27
20000230.D	FD-020717DUP	KWG1701417-1	3/3/2017	05:30		3/3/2017	06:03
20000231.D	FD-020717TRP	KWG1701417-2	3/3/2017	06:06		3/3/2017	06:39
20000232.D	FD-020717MS	KWG1701417-3	3/3/2017	06:43		3/3/2017	07:16
20000233.D	FD-020717DMS	KWG1701417-4	3/3/2017	07:19		3/3/2017	07:52
20000234.D	Continuing Calibration Verification	KWG1701860-9	3/3/2017	07:55		3/3/2017	08:28
20000235.D	Instrument Blank	KWG1701860-10	3/3/2017	08:31		3/3/2017	09:04
20000236.D	ZZZZZZ	ZZZZZZ	3/3/2017	09:08		3/3/2017	09:41

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Client: ARCADIS U.S., Inc. **Service Request:** K1701351
Project: Castner Range/06261038.0001.00400

Analysis Run Log
Nitroaromatics and Nitramines (Explosives)

Analysis Method: 8330B **Analysis Lot:** KWG1701860
Instrument ID: LC10
Column: Synergi Hydro 4

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
20000237.D	ZZZZZZ	ZZZZZZ	3/3/2017	09:44		3/3/2017	10:17
20000238.D	ZZZZZZ	ZZZZZZ	3/3/2017	10:20		3/3/2017	10:53
20000239.D	ZZZZZZ	ZZZZZZ	3/3/2017	10:56		3/3/2017	11:29
20000240.D	ZZZZZZ	ZZZZZZ	3/3/2017	11:33		3/3/2017	12:06
20000241.D	ZZZZZZ	ZZZZZZ	3/3/2017	12:09		3/3/2017	12:42
20000242.D	ZZZZZZ	ZZZZZZ	3/3/2017	12:45		3/3/2017	13:18
20000243.D	ZZZZZZ	ZZZZZZ	3/3/2017	13:21		3/3/2017	13:54
20000244.D	ZZZZZZ	ZZZZZZ	3/3/2017	13:57		3/3/2017	14:30
20000245.D	Continuing Calibration Verification	KWG1701860-11	3/3/2017	14:34		3/3/2017	15:07
20000246.D	Instrument Blank	KWG1701860-12	3/3/2017	15:10		3/3/2017	15:43
20000247.D	ZZZZZZ	ZZZZZZ	3/3/2017	15:46		3/3/2017	16:19
20000248.D	ZZZZZZ	ZZZZZZ	3/3/2017	16:22		3/3/2017	16:55
20000249.D	ZZZZZZ	ZZZZZZ	3/3/2017	16:59		3/3/2017	17:32
20000250.D	ZZZZZZ	ZZZZZZ	3/3/2017	17:35		3/3/2017	18:08
20000251.D	ZZZZZZ	ZZZZZZ	3/3/2017	18:11		3/3/2017	18:44
20000252.D	ZZZZZZ	ZZZZZZ	3/3/2017	18:47		3/3/2017	19:20
20000253.D	ZZZZZZ	ZZZZZZ	3/3/2017	19:24		3/3/2017	19:57
20000254.D	Continuing Calibration Verification	KWG1701860-13	3/3/2017	20:00		3/3/2017	20:33
20000255.D	Instrument Blank	KWG1701860-14	3/3/2017	20:36		3/3/2017	21:09

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

QA/QC Results

Client: ARCADIS U.S., Inc.
Project: Castner Range/06261038.0001.00400
Sample Matrix: Water

Service Request: K1701351
Date Extracted: 02/14/2017

Extraction Prep Log
Nitroaromatics and Nitramines (Explosives)

Extraction Method: METHOD
Analysis Method: 8330B

Extraction Lot: KWG1701217
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
EB-020717	K1701351-016	02/07/17	02/10/17	1050ml	4ml	NA	
EB-020817	K1701351-017	02/08/17	02/10/17	1030ml	4ml	NA	
EB-020817RE	K1701351-017	02/08/17	02/10/17	1030ml	4ml	NA	
EB-020917	K1701351-018	02/09/17	02/10/17	1040ml	4ml	NA	
EB-020917RE	K1701351-018	02/09/17	02/10/17	1040ml	4ml	NA	
Method Blank	KWG1701217-3	NA	NA	1000ml	4ml	NA	
Lab Control Sample	KWG1701217-1	NA	NA	1000ml	4ml	NA	
Duplicate Lab Control Sample	KWG1701217-2	NA	NA	1000ml	4ml	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

QA/QC Results

Client: ARCADIS U.S., Inc.
Project: Castner Range/06261038.0001.00400
Sample Matrix: Soil

Service Request: K1701351
Date Extracted: 02/21/2017

Extraction Prep Log
Nitroaromatics and Nitramines (Explosives)

Extraction Method: METHOD
Analysis Method: 8330B

Extraction Lot: KWG1701417
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
FD-020717	K1701351-001	02/07/17	02/10/17	10.004g	8ml	99.1	
FD-020817	K1701351-002	02/07/17	02/10/17	10.015g	8ml	99	
FTBL-SB-02-0-0.5-020817	K1701351-003	02/08/17	02/10/17	10.078g	8ml	99.1	
FTBL-SB-02-0.5-2-020817	K1701351-004	02/08/17	02/10/17	10.291g	8ml	98.7	
FTBL-SB-02-4-5.5-020817	K1701351-005	02/08/17	02/10/17	10.120g	8ml	98.6	
FTBL-SB-01D-0-0.5-020717	K1701351-006	02/07/17	02/10/17	10.320g	8ml	99.1	
FTBL-SB-01D-0.5-2-020717	K1701351-007	02/07/17	02/10/17	10.212g	8ml	98.7	
FTBL-SB-01D-4-6-020717	K1701351-008	02/07/17	02/10/17	10.220g	8ml	98.9	
FTBL-SB-01-0-0.5-020717	K1701351-009	02/07/17	02/10/17	10.159g	8ml	99.1	
FTBL-SB-01-0.5-2-020717	K1701351-010	02/07/17	02/10/17	10.017g	8ml	99.1	
FTBL-SB-01-4-6-020717	K1701351-011	02/07/17	02/10/17	10.189g	8ml	99	
FTBL-SB-03-0-0.5-020817	K1701351-012	02/08/17	02/10/17	10.090g	8ml	99.3	
FTBL-SB-03-0-0.5-020817RE	K1701351-012	02/08/17	02/10/17	10.090g	8ml	99.3	
FTBL-SB-03-6-8-020817	K1701351-013	02/08/17	02/10/17	10.026g	8ml	98.8	
FTBL-SB03-28-30-020917	K1701351-015	02/09/17	02/10/17	10.048g	8ml	97.7	
FD-020717DUP	KWG1701417-1	02/07/17	02/10/17	10.004g	8ml	99.1	
FD-020717TRP	KWG1701417-2	02/07/17	02/10/17	10.047g	8ml	99.1	
Storage Blank	KWG1701417-6	NA	NA	10.317g	8ml	NA	
Storage Blank	KWG1701417-7	NA	NA	10.084g	8ml	NA	
Method Blank	KWG1701417-9	NA	NA	10.000g	8ml	NA	
FD-020717MS	KWG1701417-3	02/07/17	02/10/17	10.007g	8ml	99.1	
FD-020717DMS	KWG1701417-4	02/07/17	02/10/17	10.017g	8ml	99.1	
Standard Reference Material	KWG1701417-5	NA	NA	10.036g	8ml	NA	
Lab Control Sample	KWG1701417-8	NA	NA	10.000g	8ml	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

Confirmation Results

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/08/2017
Sample Matrix:	Soil	**Date Received:**	02/10/2017
		Date Extracted:	02/21/2017

Nitroaromatics and Nitramines (Explosives)

Sample Name:	FTBL-SB-02-0-0.5-020817	**Units:**	mg/Kg
Lab Code:	K1701351-003	**Basis:**	Dry
		Level:	Low
Extraction Method:	METHOD		
Analysis Method:	8330B		

Analyte Name	LOQ	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4-Amino-2,6-dinitrotoluene	0.081	0.0052	0.011			JN	1	03/02/17

Confirmation Results

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/08/2017
Sample Matrix:	Soil	**Date Received:**	02/10/2017
		Date Extracted:	02/21/2017

Nitroaromatics and Nitramines (Explosives)

Sample Name:	FTBL-SB-02-4-5.5-020817	**Units:**	mg/Kg
Lab Code:	K1701351-005	**Basis:**	Dry
		Level:	Low
Extraction Method:	METHOD		
Analysis Method:	8330B		

Analyte Name	LOQ	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,6-Trinitrotoluene	0.081	0.019	0.029			JN	1	03/02/17
2,4-Dinitrotoluene	0.081	0.042	0.057			JN	1	03/02/17

Confirmation Results

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/07/2017
Sample Matrix:	Soil	**Date Received:**	02/10/2017
		Date Extracted:	02/21/2017

Nitroaromatics and Nitramines (Explosives)

Sample Name:	FTBL-SB-01D-0-0.5-020717	**Units:**	mg/Kg
Lab Code:	K1701351-006	**Basis:**	Dry
		Level:	Low
Extraction Method:	METHOD		
Analysis Method:	8330B		

Analyte Name	LOQ	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Nitrobenzene	0.079	0.0044	0.011			JN	1	03/02/17

Confirmation Results

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/07/2017
Sample Matrix:	Soil	**Date Received:**	02/10/2017
		Date Extracted:	02/21/2017

Nitroaromatics and Nitramines (Explosives)

Sample Name:	FTBL-SB-01-0-0.5-020717	**Units:**	mg/Kg
Lab Code:	K1701351-009	**Basis:**	Dry
		Level:	Low
Extraction Method:	METHOD		
Analysis Method:	8330B		

Analyte Name	LOQ	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Nitrobenzene	0.080	0.0044	0.010			JN	1	03/02/17

Confirmation Results

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/08/2017
Sample Matrix:	Soil	**Date Received:**	02/10/2017
		Date Extracted:	02/21/2017

Nitroaromatics and Nitramines (Explosives)

Sample Name:	FTBL-SB-03-0-0.5-020817	**Units:**	mg/Kg
Lab Code:	K1701351-012	**Basis:**	Dry
		Level:	Low
Extraction Method:	METHOD		
Analysis Method:	8330B		

Analyte Name	LOQ	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
3-Nitrotoluene	0.080	0.018	0.019			JN	1	03/03/17
Nitroglycerin	0.20	0.058	2.2	2.0	9.5		1	03/03/17

Confirmation Results

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/08/2017
Sample Matrix:	Soil	**Date Received:**	02/10/2017
		Date Extracted:	02/21/2017

Nitroaromatics and Nitramines (Explosives)

Sample Name:	FTBL-SB-03-6-8-020817	**Units:**	mg/Kg
Lab Code:	K1701351-013	**Basis:**	Dry
		Level:	Low
Extraction Method:	METHOD		
Analysis Method:	8330B		

Analyte Name	LOQ	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
RDX	0.21	0.050	0.074			JC	1	03/03/17
3-Nitrotoluene	0.081	0.019	0.020			JN	1	03/03/17

Confirmation Results

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/09/2017
Sample Matrix:	Soil	**Date Received:**	02/10/2017
		Date Extracted:	02/21/2017

Nitroaromatics and Nitramines (Explosives)

Sample Name:	FTBL-SB03-28-30-020917	**Units:**	mg/Kg
Lab Code:	K1701351-015	**Basis:**	Dry
		Level:	Low
Extraction Method:	METHOD		
Analysis Method:	8330B		

Analyte Name	LOQ	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Nitroglycerin	0.21	0.060	0.092			JN	1	03/03/17

Confirmation Results

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
		Date Extracted:	02/21/2017

Nitroaromatics and Nitramines (Explosives)

Sample Name:	Storage Blank	**Units:**	mg/Kg
Lab Code:	KWG1701417-7	**Basis:**	Dry
		Level:	Low
Extraction Method:	METHOD		
Analysis Method:	8330B		

Analyte Name	LOQ	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Nitroglycerin	0.20	0.058	0.070			JN	1	03/02/17

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/ Electrospray/Mass Spectrometry

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/08/17 13:45
Sample Matrix:	Soil	**Date Received:**	02/10/17 10:00
Sample Name:	FTBL-SB-03-0-0.5-020817	**Units:**	ng/g
Lab Code:	K1701351-012	**Basis:**	Dry

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analysis Method: 6850
Prep Method: None

Analyte Name	Result	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Perchlorate	ND U	5.0	5.0	2.0	1	02/22/17 02:56	2/21/17	

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Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/08/17 14:45
Sample Matrix:	Soil	**Date Received:**	02/10/17 10:00
Sample Name:	FTBL-SB-03-6-8-020817	**Units:**	ng/g
Lab Code:	K1701351-013	**Basis:**	Dry

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analysis Method: 6850
Prep Method: None

Analyte Name	Result	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Perchlorate	ND U	5.0	5.0	2.0	1	02/22/17 03:11	2/21/17	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ng/g
Lab Code:	KQ1701598-07	**Basis:**	Dry

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analysis Method: 6850
Prep Method: None

Analyte Name	Result	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Perchlorate	ND U	5.0	5.0	2.0	1	02/22/17 02:36	2/21/17	

Client: ARCADIS U.S., Inc. **Service Request:**K1701351
Project: Castner Range/06261038.0001.00400 **Date Analyzed:**02/22/17 02:16

Internal Standard Area and RT SUMMARY

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: 022217-6850\0013.wiff **Lab Code:**KQ1702045-01
Instrument ID: K-LCMS-03 **Analysis Lot:**535536
Analysis Method: 6850 **Signal ID:**1

	Sodium Perchlorate-18O4	
	Area	**RT**
ICAL Result ==>	18,157,667	3.18
Upper Limit ==>	27,236,501	4.18
Lower Limit ==>	9,078,834	2.18

Associated Analyses

Continuing Calibration Verification	KQ1702045-01	14487000	3.18
Lab Control Sample	KQ1701598-06	17213000	3.18
Method Blank	KQ1701598-07	18232000	3.17
Batch QC	K1700744-001	18458000	3.18
Batch QCMS	KQ1701598-03	16861000	3.17
Batch QCDMS	KQ1701598-04	18216000	3.17
FTBL-SB-03-0-0.5-020817	K1701351-012	19172000	3.17
FTBL-SB-03-0-0.5-020817	KQ1701598-01	18558000	3.17
FTBL-SB-03-0-0.5-020817	KQ1701598-02	17931000	3.17
FTBL-SB-03-6-8-020817	K1701351-013	17610000	3.18

Client: ARCADIS U.S., Inc. **Service Request:**K1701351
Project: Castner Range/06261038.0001.00400 **Date Analyzed:**02/22/17 02:16

Internal Standard Area and RT SUMMARY

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: 022217-6850\0025.wiff **Lab Code:**KQ1702045-02
Instrument ID: K-LCMS-03 **Analysis Lot:**535536
Analysis Method: 6850 **Signal ID:**1

	Sodium Perchlorate-18O4	
	Area	**RT**
ICAL Result ==>	18,157,667	3.18
Upper Limit ==>	27,236,501	4.18
Lower Limit ==>	9,078,834	2.18

Associated Analyses

Continuing Calibration Verification	KQ1702045-02	14642000	3.18

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Collected:**	02/08/17
Sample Matrix:	Soil	**Date Received:**	02/10/17
		Date Analyzed:	02/22/17
		Date Extracted:	02/21/17

Duplicate Matrix Spike Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Sample Name:	FTBL-SB-03-0-0.5-020817	**Units:**	ng/g
Lab Code:	K1701351-012	**Basis:**	Dry
Analysis Method:	6850		
Prep Method:	None		

		Matrix Spike KQ1701598-01			Duplicate Matrix Spike KQ1701598-02					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	ND U	4.64	4.45	104	5.40	4.91	110	84-121	6	15

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701351
Project:	Castner Range/06261038.0001.00400	**Date Analyzed:**	02/22/17
Sample Matrix:	Soil	**Date Extracted:**	02/21/17

Lab Control Sample Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analysis Method:	6850	**Units:**	ng/g
Prep Method:	None	**Basis:**	Dry
		Analysis Lot:	535536

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	KQ1701598-06	5.33	5.00	107	84-121

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dba ALS Environmental

QA/QC Report

Client: ARCADIS U.S., Inc.
Project: Castner Range/06261038.0001.00400
Sample Matrix: Soil

Service Request:K1701351
Date Analyzed:02/22/17 02:36
Date Extracted:02/21/17

Method Blank Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Sample Name: Method Blank
Lab Code: KQ1701598-07

Instrument ID:K-LCMS-03
File ID:022217-6850\0017.wiff

Analysis Method: 6850
Prep Method: None

Analysis Lot:535536
Extraction Lot:281632

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	KQ1701598-06	022217-6850\0016.wiff	02/22/17 02:31
Batch QC	K1700744-001	022217-6850\0018.wiff	02/22/17 02:41
Batch QC	KQ1701598-03	022217-6850\0019.wiff	02/22/17 02:46
Batch QC	KQ1701598-04	022217-6850\0020.wiff	02/22/17 02:51
FTBL-SB-03-0-0.5-020817	K1701351-012	022217-6850\0021.wiff	02/22/17 02:56
FTBL-SB-03-0-0.5-020817	KQ1701598-01	022217-6850\0022.wiff	02/22/17 03:01
FTBL-SB-03-0-0.5-020817	KQ1701598-02	022217-6850\0023.wiff	02/22/17 03:06
FTBL-SB-03-6-8-020817	K1701351-013	022217-6850\0024.wiff	02/22/17 03:11

Client: ARCADIS U.S., Inc. **Service Request:**K1701351
Project: Castner Range/06261038.0001.00400 **Date Analyzed:**02/22/17 02:31
Sample Matrix: Soil **Date Extracted:**02/21/17

Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Sample Name: Lab Control Sample **Instrument ID:**K-LCMS-03
Lab Code: KQ1701598-06 **File ID:**022217-6850\0016.wiff

Analysis Method: 6850 **Analysis Lot:**535536
Prep Method: None **Extraction Lot:**281632

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	KQ1701598-07	022217-6850\0017.wiff	02/22/17 02:36
Batch QC	K1700744-001	022217-6850\0018.wiff	02/22/17 02:41
Batch QC	KQ1701598-03	022217-6850\0019.wiff	02/22/17 02:46
Batch QC	KQ1701598-04	022217-6850\0020.wiff	02/22/17 02:51
FTBL-SB-03-0-0.5-020817	K1701351-012	022217-6850\0021.wiff	02/22/17 02:56
FTBL-SB-03-0-0.5-020817	KQ1701598-01	022217-6850\0022.wiff	02/22/17 03:01
FTBL-SB-03-0-0.5-020817	KQ1701598-02	022217-6850\0023.wiff	02/22/17 03:06
FTBL-SB-03-6-8-020817	K1701351-013	022217-6850\0024.wiff	02/22/17 03:11

Client: ARCADIS U.S., Inc. **Service Request:** K1701351
Project: Castner Range **Calibration Date:** 2/22/2017

Initial Calibration Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Calibration ID: KC1700014 **Signal ID:** 1
Instrument ID: K-LCMS-03

#	Lab Code	Sample Name	File Location	Aquisition Date
01	KC1700014-01	6850 CAL 0.10ppb	022217-6850\0002.wiff	02/22/2017 01:21
02	KC1700014-02	6850 CAL 0.50ppb	022217-6850\0003.wiff	02/22/2017 01:26
03	KC1700014-03	6850 CAL 0.70ppb	022217-6850\0004.wiff	02/22/2017 01:31
04	KC1700014-04	6850 CAL 1.0ppb	022217-6850\0005.wiff	02/22/2017 01:36
05	KC1700014-05	6850 CAL 2.0ppb	022217-6850\0006.wiff	02/22/2017 01:41
06	KC1700014-06	6850 CAL 5.0ppb	022217-6850\0007.wiff	02/22/2017 01:46
07	KC1700014-07	6850 CAL 10ppb	022217-6850\0008.wiff	02/22/2017 01:51
08	KC1700014-08	6850 CAL 20ppb	022217-6850\0009.wiff	02/22/2017 01:56
09	KC1700014-09	6850 CAL 30ppb	022217-6850\0010.wiff	02/22/2017 02:01

Analyte

Perchlorate

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.100	1.188	02	0.500	1.159	03	0.700	1.197	04	1.00	1.218
05	2.00	1.24	06	5.00	1.143	07	10.0	1.091	08	20.0	1.016
09	30.0	0.9576									

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	**Compound Type**	**Fit Type**	**Eval**	**Eval Result**	**Control Criteria**	**Average RRF**	**Minimum RRF**
Perchlorate	**TRG**	**Average RF**	**% RSD**	**8.4**	**≤15**	**1.135**	

Client: ARCADIS U.S., Inc. **Service Request:** K1701351
Project: Castner Range **Calibration Date:** 2/22/2017

Initial Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Calibration ID: KC1700014 **Signal ID:** 1
Instrument ID: K-LCMS-03

#	Lab Code	Sample Name	File Location	Aquisition Date
10	KC1700014-10	6850 ICV 10ppb	022217-6850\0013.wiff	02/22/2017 02:16

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Perchlorate	10.0	10.9	1.135	1.233	8.71	±15	Average RF

Client: ARCADIS U.S., Inc. **Service Request:** K1701351
Project: Castner Range/06261038.0001.00400

Continuing Calibration Verification (CCV) Summary

Perchlorate

Analysis Method: 6850 **Units:** ng/mL

	Analysis Lot	Lab Code	Date Analyzed	True Value	Measured Value	Percent Recovery	Acceptance Limits
CCV1	535536	KQ1702045-01	02/22/17 02:16	10.0	10.9	109	85-115

Client: ARCADIS U.S., Inc. **Service Request:** K1701351
Project: Castner Range/06261038.0001.00400

Continuing Calibration Verification (CCV) Summary

Perchlorate

Analysis Method: 6850 **Units:** ng/mL

	Analysis Lot	Lab Code	Date Analyzed	True Value	Measured Value	Percent Recovery	Acceptance Limits
CCV1	535536	KQ1702045-02	02/22/17 03:16	10.0	9.99	100	85-115

Client: ARCADIS U.S., Inc. **Service Request:**K1701351
Project: Castner Range/06261038.0001.00400

Analysis Run Log

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analysis Method: 6850 **Analysis Lot:**535536
Instrument ID:K-LCMS-03

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
022217-6850\0013.wiff	Continuing Calibration Verification	KQ1702045-01	2/22/2017	02:16:11	
022217-6850\0015.wiff	ZZZZZZZ	ZZZZZZZ	2/22/2017	02:26:10	
022217-6850\0016.wiff	Lab Control Sample	KQ1701598-06	2/22/2017	02:31:09	
022217-6850\0017.wiff	Method Blank	KQ1701598-07	2/22/2017	02:36:13	
022217-6850\0018.wiff	Batch QC	K1700744-001	2/22/2017	02:41:12	
022217-6850\0019.wiff	Batch QC MS	KQ1701598-03	2/22/2017	02:46:09	
022217-6850\0020.wiff	Batch QC DMS	KQ1701598-04	2/22/2017	02:51:09	
022217-6850\0021.wiff	FTBL-SB-03-0-0.5-020817	K1701351-012	2/22/2017	02:56:09	
022217-6850\0022.wiff	FTBL-SB-03-0-0.5-020817 MS	KQ1701598-01	2/22/2017	03:01:11	
022217-6850\0023.wiff	FTBL-SB-03-0-0.5-020817 DMS	KQ1701598-02	2/22/2017	03:06:11	
022217-6850\0024.wiff	FTBL-SB-03-6-8-020817	K1701351-013	2/22/2017	03:11:14	
022217-6850\0025.wiff	Continuing Calibration Verification	KQ1702045-02	2/22/2017	03:16:12	

Prep Summary Report

Client: ARCADIS U.S., Inc. **Service Request:**K1701351
Project: Castner Range/06261038.0001.00400
Sample Matrix: Soil

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Prep Method: Method **Extraction Lot:**281632
Analytical Method: 6850

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
Batch QC	K1700744-001	NA	NA	1.0218 g	10 mL	94.6
FTBL-SB-03-0-0.5-020817	K1701351-012	2/8/17	2/10/17	1.117 g	10 mL	95.8
FTBL-SB-03-6-8-020817	K1701351-013	2/8/17	2/10/17	1.193 g	10 mL	97.2
FTBL-SB-03-0-0.5-020817	KQ1701598-01	2/8/17	2/10/17	1.173 g	10 mL	95.8
FTBL-SB-03-0-0.5-020817	KQ1701598-02	2/8/17	2/10/17	1.063 g	10 mL	95.8
Batch QC	KQ1701598-03	NA	NA	1.0341 g	10 mL	94.6
Batch QC	KQ1701598-04	NA	NA	1.0618 g	10 mL	94.6
Lab Control Sample	KQ1701598-06	NA	NA	1.0 g	10 mL	
Method Blank	KQ1701598-07	NA	NA	1.0 g	10 mL	

Raw Data

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Total Solids

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Benchsheet

Service Request #: K1701351, KQ1701829 **Run #:** 535407
Test: TS-Air Dried **Balance ID:** K-BALANCE-50
Method: 160.3 Modified

Pan ID:	Lab Code:	Tare (g)	Wet Wt. (g)	Tare + Dry Wt. (g)	Dry Weight (g)	% Total Solids	RPD
	K1701351-001	1.294	10.199	11.402	10.1	99.1	
	K1701351-002	1.306	10.058	11.264	9.96	99.0	
	K1701351-002DUP	1.314	11.025	12.226	10.9	99.0	<1
	K1701351-003	1.306	10.109	11.319	10.0	99.1	
	K1701351-004	1.277	10.082	11.224	9.95	98.7	
	K1701351-005	1.292	10.790	11.934	10.6	98.6	
	K1701351-006	1.284	11.818	12.992	11.7	99.1	
	K1701351-007	1.309	10.162	11.340	10.0	98.7	
	K1701351-008	1.300	10.416	11.601	10.3	98.9	
	K1701351-009	1.307	12.547	13.738	12.4	99.1	
	K1701351-010	1.314	10.535	11.750	10.4	99.1	
	K1701351-011	1.310	12.615	13.795	12.5	99.0	
	K1701351-012	1.293	10.664	11.886	10.6	99.3	
	K1701351-012DUP	1.294	10.068	11.290	10.00	99.3	<1
	K1701351-013	1.282	10.260	11.418	10.1	98.8	
	K1701351-015	1.288	10.664	11.709	10.4	97.7	

	Oven ID	Temp In	Temp Out	Date In	Time In	Date Out	Time Out	Thermometer ID
Oven1	k-oven-07	105	105	2/21/2017	15:01	2/22/2017	08:08	

	Cal EQID	Cal Start Value	Cal End Value	Start Date	Start Time	End Date	End Time
Calibration1	K-BALANCE-50	1.000, 100.000	1.000, 100.000	2/21/2017	11:26	2/21/2017	15:01
Calibration2	K-BALANCE-50	1.004, 100.002	0.999, 99.998	2/22/2017	08:42	2/22/2017	08:45
Calibration3	K-BALANCE-49	1.000, 100.000	1.000, 99.998	2/21/2017	11:48	2/21/2017	15:01
Calibration4	K-BALANCE-49	1.000, 100.000	1.000, 100.000	2/22/2017	08:33	2/22/2017	08:39

Comments: DJM weight set serial No. 42868 cal 3+4 sample # 1 done by AP Reviewed by SC 2/22/17

Metals

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Preparation Information Benchsheet

Prep Run: 281874 **Prep Workflow:** MetDigSICP **Status:** Draft **Prep Date:** 02/17/2017 11:05
Team: Metals **Prep Method:** EPA 3050B **Current Step:** Weigh **Due Date:** 02/21/2017
Analyst: (b) (6) **Rush/NPDES:** N/A **Hold Date:** 08/06/2017

* DOD 5.0

Lab Code	Client ID	Bottle #	Target Amt	Initial Amt	Initial Basis	Final Volume	Spike Amt	Spike ID	Comments
KQ1701775-01	Method Blank		1.00 g	1.00					
KQ1701775-02	Lab Control Sample		1.00 g	1.01			2 mL 1 mL 1 mL 1 mL	177744 178641 178642 179314	
K1701351-001	FD-020717	.01	1.00 g						
K1701351-001: KQ1701775-03	Matrix Spike	.01	1.00 g				2 mL 1 mL 1 mL 1 mL	177744 178641 178642 179314	
K1701351-001: KQ1701775-04	Duplicate Matrix Spike	.01	1.00 g				2 mL 1 mL 1 mL 1 mL	177744 178641 178642 179314	
K1701351-002	FD-020817	.01	1.00 g						
K1701351-003	FTBL-SB-02-0-0.5-020817	.01	1.00 g						
K1701351-004	FTBL-SB-02-0.5-2-020817	.01	1.00 g						
K1701351-005	FTBL-SB-02-4-5.5-020817	.01	1.00 g						
K1701351-006	FTBL-SB-01D-0-0.5-020717	.01	1.00 g						
K1701351-007	FTBL-SB-01D-0.5-2-020717	.01	1.00 g						
K1701351-008	FTBL-SB-01D-4-6-020717	.01	1.00 g						
K1701351-009	FTBL-SB-01-0-0.5-020717	.01	1.00 g						
K1701351-010	FTBL-SB-01-0.5-2-020717	.01	1.00 g						
K1701351-011	FTBL-SB-01-4-6-020717	.01	1.00 g						
K1701351-012	FTBL-SB-03-0-0.5-020817	.01	1.00 g						
K1701351-013	FTBL-SB-03-6-8-020817	.01	1.00 g						
K1701351-015	FTBL-SB03-28-30-020917	.01	1.00 g						

18 Total Samples consisting of 14 Client Samples, 2 Client QC Samples, 2 Batch QC Samples associated with the current Prep Run.

Spiking Solutions

Name	Type	ID	Expires	Name	Type	ID	Expires
K-MET SS1	Spike	177744	4/8/2017	K-MET SS4	Spike	178642	8/15/2017

K-MET SS3	Spike	178641	3/18/2017	K-MET SS5	Spike	179314	6/4/2017

Preparation Materials

Preparation Hardware / Equipment

Preparation Steps

Step	Started	Finished	By	Assisted By	Training?	Comments
Weigh						
Digestion						

Comments

Balance 2 ✓ 2/21/17

Tubes 1605323

HNO_3 0000152495

H_2O_2 5531 4549

HCl 0000 139 084

R1 8:47 - 9:02

R2 9:08 - 9:38

H_2O_2 9:45 - 11:45

R3 11:48 - 12:03

Pre-Prep Information Benchsheet

Prep Run #: 281872 **Prep Method:** **Team:** **Prep Due Date:** Feb-21-2017

#	Lab Code	Bottle	Test Name	Weight	Sample Comments	Test Comments
1	K1701351-001	.01	Metals T	1.030g	Samples Air Dried Not Sieved	PrepComments:DMadden K-Balance-50
2	K1701351-002	.01	Metals T	1.045g		PrepComments:DMadden K-Balance-50
3	K1701351-003	.01	Metals T	1.028g		PrepComments:DMadden K-Balance-50
4	K1701351-004	.01	Metals T	1.031g		PrepComments:DMadden K-Balance-50
5	K1701351-005	.01	Metals T	1.066g		PrepComments:DMadden K-Balance-50
6	K1701351-006	.01	Metals T	1.057g		PrepComments:DMadden K-Balance-50
7	K1701351-007	.01	Metals T	1.039g		PrepComments:DMadden K-Balance-50
8	K1701351-008	.01	Metals T	1.057g		PrepComments:DMadden K-Balance-50
9	K1701351-009	.01	Metals T	1.042g		PrepComments:DMadden K-Balance-50
10	K1701351-010	.01	Metals T	1.000g		PrepComments:DMadden K-Balance-50
11	K1701351-011	.01	Metals T	1.007g		PrepComments:DMadden K-Balance-50
12	K1701351-012	.01	Metals T	1.045g		PrepComments:DMadden K-Balance-50
13	K1701351-013	.01	Metals T	1.030g		PrepComments:DMadden K-Balance-50
14	K1701351-015	.01	Metals T	1.048g		PrepComments:DMadden K-Balance-50
15	K1701351-001 MS KQ1701775-01	.01	Metals T	1.044g		PrepComments:DMadden K-Balance-50
16	K1701351-001 DMS KQ1701775-02	.01	Metals T	1.028g		PrepComments:DMadden K-Balance-50

Lot # 1512329-6189-QK

**% Solids is a calculated field meant solely as a reference value for verifying the presence of Total Solids in calculations

011826
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11/01/2018

Preparation Information Benchsheet

Prep Run: 281874
Team: Metals
Analyst: (b) (6)

Prep Workflow: MetDigSICP
Prep Method: EPA 3050B
Rush/NPDES: N/A

Status: Prepped
Current Step: Digestion

Prep Date: 02/17/2017 08:00
Due Date: 02/27/2017
Hold Date: 08/06/2017

Lab Code	Client ID	Bottle #	Initial Amt	Initial Basis	Final Volume	Spike Amt	Spike ID	Comments
KQ1701775-01	Method Blank		1.00 g	Air Dried	100 mL			10%HNO3, 10%HCl
KQ1701775-02	Lab Control Sample		1.00 g	Air Dried	100 mL	2 mL 1 mL 1 mL 1 mL	177744 178641 178642 179314	10%HNO3, 10%HCl
K1701351-001	FD-020717	.01	1.030 g	Air Dried	100 mL			10%HNO3, 10%HCl; DMadden K-Balance-50
K1701351-001: KQ1701775-03	Matrix Spike	.01	1.044 g	Air Dried	100 mL	2 mL 1 mL 1 mL 1 mL	177744 178641 178642 179314	10%HNO3, 10%HCl; DMadden K-Balance-50
K1701351-001: KQ1701775-04	Duplicate Matrix Spike	.01	1.028 g	Air Dried	100 mL	2 mL 1 mL 1 mL 1 mL	177744 178641 178642 179314	10%HNO3, 10%HCl; DMadden K-Balance-50
K1701351-002	FD-020817	.01	1.045 g	Air Dried	100 mL			10%HNO3, 10%HCl; DMadden K-Balance-50
K1701351-003	FTBL-SB-02-0-0.5-020817	.01	1.028 g	Air Dried	100 mL			10%HNO3, 10%HCl; DMadden K-Balance-50
K1701351-004	FTBL-SB-02-0.5-2-020817	.01	1.031 g	Air Dried	100 mL			10%HNO3, 10%HCl; DMadden K-Balance-50
K1701351-005	FTBL-SB-02-4-5.5-020817	.01	1.066 g	Air Dried	100 mL			10%HNO3, 10%HCl; DMadden K-Balance-50
K1701351-006	FTBL-SB-01D-0-0.5-020717	.01	1.057 g	Air Dried	100 mL			10%HNO3, 10%HCl; DMadden K-Balance-50
K1701351-007	FTBL-SB-01D-0.5-2-020717	.01	1.039 g	Air Dried	100 mL			10%HNO3, 10%HCl; DMadden K-Balance-50
K1701351-008	FTBL-SB-01D-4-6-020717	.01	1.057 g	Air Dried	100 mL			10%HNO3, 10%HCl; DMadden K-Balance-50
K1701351-009	FTBL-SB-01-0-0.5-020717	.01	1.042 g	Air Dried	100 mL			10%HNO3, 10%HCl; DMadden K-Balance-50
K1701351-010	FTBL-SB-01-0.5-2-020717	.01	1.000 g	Air Dried	100 mL			10%HNO3, 10%HCl; DMadden K-Balance-50
K1701351-011	FTBL-SB-01-4-6-020717	.01	1.007 g	Air Dried	100 mL			10%HNO3, 10%HCl; DMadden K-Balance-50
K1701351-012	FTBL-SB-03-0-0.5-020817	.01	1.045 g	Air Dried	100 mL			10%HNO3, 10%HCl; DMadden K-Balance-50
K1701351-013	FTBL-SB-03-6-8-020817	.01	1.030 g	Air Dried	100 mL			10%HNO3, 10%HCl; DMadden K-Balance-50
K1701351-015	FTBL-SB03-28-30-020917	.01	1.048 g	Air Dried	100 mL			10%HNO3, 10%HCl; DMadden K-Balance-50

18 Total Samples consisting of 14 Client Samples, 2 Client QC Samples, 2 Batch QC Samples associated with the current Prep Run.

Spiking Solutions

Name	Type	ID	Expires	Name	Type	ID	Expires
K-MET SS1	Spike	177744	4/8/2017	K-MET SS4	Spike	178642	8/15/2017
K-MET SS3	Spike	178641	3/18/2017	K-MET SS5	Spike	179314	6/4/2017

Preparation Materials

Step	Name	ID
Digestion	Teflon Chips	80163
Digestion	K-MET H2O2	175797
Digestion	K-MET HCL	178073

Step	Name	ID
Digestion	K-MET 100ml Centrifuge Tube	178771
Digestion	K-MET HNO3	179179
Weigh	K-MET 100ml Centrifuge Tube	175825

Preparation Hardware / Equipment

Step	Name	Property	Value	
Digestion	K-Balance-02	Date Checked	2/21/2017	
Digestion	K-BlockDigester-07	Corrected Temperature	95	deg C
Digestion	K-BlockDigester-07	Correction Factor	0	deg C

Step	Name	Property	Value	
Digestion	K-BlockDigester-07	Observed Temperature	95	deg C
Digestion	K-BlockDigester-07	Thermometer ID 6402142		NONE
Digestion	K-BlockDigester-07	Thermometer Location	26	NONE

Preparation Steps

Step	Started	Finished	By	Assisted By	Training?	Comments
Weigh	17-FEB-17 08:00	17-FEB-17 10:57	(b) (6)		N	
Digestion	21-FEB-17 08:47	21-FEB-17 12:03			N	

Comments

R1: 15min; R2: 150min; R3: 15min

Review

Reviewed by: (b) (6) Date: 2/21/17

METALS SPIKING SOLUTIONS CONCENTRATIONS FORM

Solution Name	Element	mLs of 1000ppm Solution	Final Volume	Solution Conc. mg/L	Enter mls Added
K-MET SS1 *** Add after HNO3 and before ALS-89 when making the solution	HNO3	50.0	1000ml	-	
	Al	100*	1000ml	200	
	Ag	100*	1000ml	5	
	Ba	100*	1000ml	100	
	Be	100*	1000ml	5	
	Cd	100*	1000ml	5	
	Co	100*	1000ml	50	
	Cr	100*	1000ml	20	
	Cu	100*	1000ml	25	
	Fe	100*	1000ml	100	
	Pb	100*	1000ml	50	
	Mn	100*	1000ml	50	
	Ni	100*	1000ml	50	
	Sb***	50	1000ml	50	
	V	100*	1000ml	50	
	Zn	100*	1000ml	50	
K-MET SS2	HNO3	25.0	500ml	-	
	As	2.0	500ml	4	
	Cd	2.0	500ml	4	
	Pb	2.0	500ml	4	
	Se	2.0	500ml	4	
	Tl	2.0	500ml	4	
	Cu	2.0	500ml	4	
K-MET SS3	HNO3	25.0	500ml	-	
	As	50.0	500ml	100	
	Se	50.0	500ml	100	
	Tl	10.0	500ml	20	
	Hg	6	500	12	
K-MET SS4	HNO3	25	500ml	-	
	B	50	500ml	100	
	Mo	50	500ml	100	
K-MET SS5	HNO3	10.0	200ml	-	
	K**	20	200ml	1000	
	Na**	20	200ml	1000	
	Mg**	20	200ml	1000	
	Ca**	20	200ml	1000	
K-MET GFLCSW	HNO3	10.0	1000ml	-	
	As, Pb, Se, Tl	5.0	1000ml	2.5	
	Cd	-	-	1.25	
	Cu	2.5	1000ml	2.5	
K-MET QCP-CICV-1	Ca, Mg, Na, K	no dilution	-	2500	
	Al, Ba	no dilution	-	1000	
	Fe	no dilution	-	500	
	Co, Mn, Ni, V, Zn	no dilution	-	250	
	Cu, Ag	no dilution	-	125	
	Cr	no dilution	-	100	
	Be	no dilution	-	25	
K-MET QCP-CICV-3	As, Pb, Se, Tl	no dilution	-	500	
	Cd	no dilution	-	250	

* Denotes volume of mixed stock standard.
** Denotes 10,000 ppm individual stock standards.

Standard	mls of standard	ppm	Logbook #	Exp. Date

Preparation Information Benchsheet

Prep Run: 281699 **Prep Workflow**: MetDigAqMS **Status**: Prepped **Prep Date**: 02/17/2017 08:55
Team: Metals **Prep Method**: EPA CLP-METALS ILM04.0 **Current Step**: Digestion **Due Date**: 02/27/2017
Analyst: (b) (6) **Rush/NPDES**: N/A **Hold Date**: 08/06/2017

Lab Code	Client ID	Bottle #	Initial Amt	Final Volume	Spike Amt	Spike ID	Test No List	Comments
KQ1701660-01	Method Blank		10 mL	10 mL			Metals T	1%HNO3 ULTREX,0.05mL HCl
KQ1701660-02	Lab Control Sample		10 mL	10.3 mL	0.02 mL 0.1 mL 0.1 mL 0.1 mL	175517 176508 176928 176932	Metals T	1%HNO3 ULTREX,0.05mL HCl
KQ1701660-03	Duplicate Lab Control Sample		10 mL	10.3 mL	0.02 mL 0.1 mL 0.1 mL 0.1 mL	175517 176508 176928 176932	Metals T	1%HNO3 ULTREX,0.05mL HCl
K1701351-016	EB-020717	.04	10 mL	10 mL			Metals T	1%HNO3 ULTREX,0.05mL HCl
K1701351-017	EB-020817	.04	10 mL	10 mL			Metals T	1%HNO3 ULTREX,0.05mL HCl
K1701351-018	EB-020917	.04	10 mL	10 mL			Metals T	1%HNO3 ULTREX,0.05mL HCl

6 Total Samples consisting of 3 Client Samples, 0 Client QC Samples, 3 Batch QC Samples associated with the current Prep Run.

Spiking Solutions

Name	Type	ID	Expires	Name	Type	ID	Expires
K-MET Mo/U 10ppm	Spike	175517	4/29/2017	k-met 1/100 QCP-CICV-3	Spike	176508	9/16/2017
k-met 1/100 QCP CICV-1	Spike	176928	9/16/2017	k-met Sb 5ug/mL Sb	Spike	176932	7/12/2017

Preparation Materials

Step	Name	ID	Step	Name	ID
Digestion	K-MET HNO3 ULTREX	176897	Digestion	K-MET 16 mL Tube	177581

Preparation Hardware / Equipment

Step	Name	Property	Value		Step	Name	Property	Value	
Digestion	K-BLockDigester-17	Corrected Temperature	95.0	deg C	Digestion	K-BLockDigester-17	Thermometer ID 6401160		NONE
Digestion	K-BLockDigester-17	Correction Factor	0.0	deg C	Digestion	K-BLockDigester-17	Thermometer Location	109	NONE
Digestion	K-BLockDigester-17	Observed Temperature	95.0	deg C					

Preparation Steps

Step	Started	Finished	By	Assisted By	Training?	Comments
Digestion	17-FEB-17 08:55	17-FEB-17 10:55	(b) (6)		N	

Comments

HCl lot #53338

Review

Reviewed by: (b) (6) Date: 2/21/17

ICP-MS LCSW AND SPIKING SOLUTIONS

5.00mL to 500mL Dilution of Inorganics Ventures QCP-CICV-1

k-met 1/100 QCP-CICV-1

Analyte	Concentration in solution (ppb)	Concentration in digest (ppb)
Al	10000	100
Ag	1250	12.5
Ba	10000	100
Be	250	2.5
Ca	25000	250
Co	2500	25
Cu	1250	12.5
Cr	1000	10
Fe	5000	50
K	25000	250
Mg	25000	250
Mn	2500	25
Na	25000	250
Ni	2500	25
V	2500	25
Zn	2500	25

2.50mL to 500mL Dilution of 1000ppm Sb

k-met 5ug/mL Sb

Analyte	Concentration in solution (ppb)	Concentration in digest (ppb)
Sb	5000	50

5.00mL to 500mL Dilution of Inorganics Ventures QCP-CICV-3

k-met 1/100 QCP-CICV-3

Analyte	Concentration in solution (ppb)	Concentration in digest (ppb)
As	5000	50
Pb	5000	50
Se	5000	50
Tl	5000	50
Cd	2500	25

2.00mL to 200mL Dilution of 1,000 ppm Mo and 1,000 ppm U

k-met Mo/U 10ppm

Analyte	Concentration in solution (ppb)	Concentration in digest (ppb)
Mo	10000	20
U	10000	20

Service Request # K1701351

Instrument ID # K-ICP-MS-05
Calibration 022417AMS05
ALS LIMS Run # 535843

Cal Std: MS21-49-N
ICV Std: MS21-48-M
LLICV Std: MS21-45I
I.S. Solution: MS20-34-B

ICSA Std: MS21-47-J
ICSAB Std: MS21-47-K

ICP-MS Data Review Form

	Yes	No	NA
1. Appropriate standardization completed	X		
2. ICV in control (+/- 10%)	X		
3. CCV's in control (+/- 10%)	X		
4. ICB/CCB's below MRL	X		
5. LLICV standard analyzed and in control	X		
6. ICS standards within 20% of true value	X		
6. All analytes within instrument linear range	X		
7. Adequate rinse out time allowed	X		
8. Internal standards in control	X		
9. Interferences checked	X		
10. Was the run terminated? If so, why.		X	

See Benchsheet exception report for sample batch QC information.

Comments:

Primary Review by [redacted] Date 2/24/17
Secondary Review by [redacted] Date 2/27/17

Data Review Form

Service Request #: **K1701351**
Instrument ID#: **K-ICP-MS-05**
DataFile Name: **R:\ICP\WIP\DATA\K-ICP-MS-05 (Agilent)\022417A.csv**
RUNNO: **535843**

K1701351-001MS - Metals T
MS Recovery
6020A/Metals T - 123 Sb [He] - Recovery: 37 Limits: 72 - 124

PDS is in control

K1701351-001DMS - Metals T
DMS Recovery
6020A/Metals T - 123 Sb [He] - Recovery: 39 Limits: 72 - 124

Analytical Method 6020A

Primary Approver: (b) (6) 2/24/17
Secondary Approver:

Pa

	Sample						
		Rjct	Data File	Acq. Date-Time	Type	Sample Name	Comment
1			001CALB.	2/24/2017 11:05:37 AM	CalBlk	Blank	
2			002CALB.	2/24/2017 11:09:00 AM	CalBlk	Blank	
3			003CALB.	2/24/2017 11:12:16 AM	CalBlk	Blank	
4			004CALB.	2/24/2017 11:15:36 AM	CalBlk	Blank	
5			005CALB.	2/24/2017 11:18:56 AM	CalBlk	Blank	
6			006CALS.	2/24/2017 11:22:18 AM	CalStd	25ppb	
7			007_ICV.d	2/24/2017 11:25:39 AM	ICV	ICV	
8			008_CCV.	2/24/2017 11:28:59 AM	CCV	CCV	
9			009_ICB.d	2/24/2017 11:32:20 AM	ICB	ICB	
10			010_CCB.	2/24/2017 11:35:42 AM	CCB	CCB	
11			011LICV.d	2/24/2017 11:39:04 AM	LLICV	LLICVS	
12	✓		012SMPL.	2/24/2017 11:42:26 AM	Sample	LRSTD	
13			013ICSA.d	2/24/2017 11:45:37 AM	ICSA	ICSA	
14			014ICSB.d	2/24/2017 11:49:00 AM	ICSB	ICSAB	
15			015_PB.d	2/24/2017 11:52:20 AM	PB	KQ1701775-01	5
16			016_LCS.d	2/24/2017 11:55:41 AM	LCS	KQ1701775-02	20
17			017_ARF.d	2/24/2017 11:59:03 AM	AllRef	K1701351-001	5
18			018SMPL.	2/24/2017 12:02:25 PM	Sample	K1701351-001L	25
19			019_PDS.d	2/24/2017 12:05:44 PM	PDS	K1701351-001A	5
20	✓		020_Spk.d	2/24/2017 12:09:06 PM	Spike	K1701351-001S	5
21	✓		021_Spk.d	2/24/2017 12:12:24 PM	Spike	K1701351-001S	5
22	✓		022SMPL.	2/24/2017 12:15:44 PM	Sample	K1701351-002	5
23			023SMPL.	2/24/2017 12:19:02 PM	Sample	K1701351-003	5
24			024SMPL.	2/24/2017 12:22:20 PM	Sample	K1701351-004	5
25			025_CCV.	2/24/2017 12:25:41 PM	CCV	CCV	
26			026_CCB.	2/24/2017 12:29:02 PM	CCB	CCB	
27			027SMPL.	2/24/2017 12:32:24 PM	Sample	K1701351-005	5
28			028SMPL.	2/24/2017 12:35:43 PM	Sample	K1701351-006	5
29			029SMPL.	2/24/2017 12:39:03 PM	Sample	K1701351-007	5
30			030SMPL.	2/24/2017 12:42:24 PM	Sample	K1701351-008	5
31			031SMPL.	2/24/2017 12:45:44 PM	Sample	K1701351-009	5
32			032SMPL.	2/24/2017 12:49:05 PM	Sample	K1701351-010	5
33			033SMPL.	2/24/2017 12:52:28 PM	Sample	K1701351-011	5
34			034SMPL.	2/24/2017 12:55:49 PM	Sample	K1701351-012	5
35			035SMPL.	2/24/2017 12:59:07 PM	Sample	K1701351-013	5

Sample

	Rjct	Data File	Acq. Date-Time	Type	Sample Name	Comment
36		036SMPL.	2/24/2017 1:02:28 PM	Sample	K1701351-015	5
37		037_CCV.	2/24/2017 1:05:50 PM	CCV	CCV	
38		038_CCB.	2/24/2017 1:09:11 PM	CCB	CCB	
39		039LCCV.	2/24/2017 1:12:32 PM	LLCCV	LLCCVS	

Analyte

	Name	Mass	ISTD	Tune Mode
1	Be	9	6	No Gas
2	Ni	60	72	He
3	Ni	62	72	He
4	Cu	63	72	He
5	Cu	65	72	He
6	Zn	66	72	He
7	As	75	72	He
8	Se	77	72	H2
9	Se	78	72	H2
10	Sb	121	115	He
11	Sb	123	115	He
12	[Pb]	206	175	He
13	[Pb]	207	175	He
14	Pb	208	175	He
15	Li	6		No Gas
16	Ge	72		He
17	Ge	72		H2
18	In	115		He
19	Lu	175		He

US EPA Tune Check Sample Report

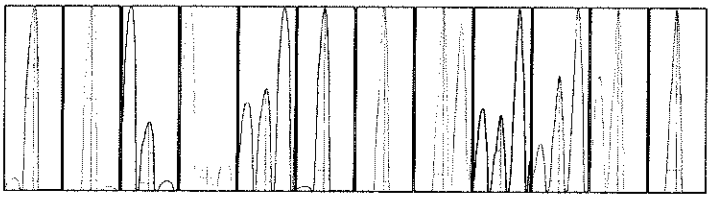
Batch Folder D:\Data\Experiments\022417A.b
Report Comment ALS Tune
Instrument Name G3281A JP13482848

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
7	112599	0.50	5.00	
9	42051	0.16	5.00	
24	179542	0.93	5.00	
25	23881	0.64	5.00	
26	27798	0.60	5.00	
59	231174	0.67	5.00	
115	310129	0.59	5.00	
206	72579	0.86	5.00	
207	65822	1.39	5.00	
208	158970	0.39	5.00	
209	246360	0.58	5.00	
238	326086	0.66	5.00	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
7	112963	112244	113402	112275	112111
9	42156	42035	42005	42079	41983
24	182085	179751	179801	177872	178199
25	24115	23914	23699	23870	23807
26	27976	27928	27833	27592	27662
59	233777	230725	229880	230201	231289
115	311871	310358	307235	311418	309761
206	73662	72182	72336	72546	72171
207	67084	66404	65602	65196	64823
208	159703	159050	159423	158428	158245
209	248735	246304	244922	246086	245754
238	329751	326239	324687	324936	324815

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width-X% (Flag)
7	18172	7.05	6.9 - 7.1		0.827	0.900	
9	7024	9.00	8.9 - 9.1		0.826	0.900	
24	28897	23.95	23.9 - 24.1		0.810	0.900	
25	3833	24.95	24.9 - 25.1		0.798	0.900	
26	4452	25.95	25.9 - 26.1		0.811	0.900	
59	39639	58.95	58.9 - 59.1		0.794	0.900	
115	59475	115.00	114.9 - 115.1		0.777	0.900	
206	13844	206.00	205.9 - 206.1		0.784	0.900	
207	12742	206.95	206.9 - 207.1		0.786	0.900	
208	30521	207.95	207.9 - 208.1		0.788	0.900	
209	48180	208.95	208.9 - 209.1		0.796	0.900	
238	62437	237.95	237.9 - 238.1		0.806	0.900	

X% = 5 **Integration Time [sec] =** 0.1 **Acquisition Time [sec] =** 279 **Y Axis =** Linear

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.57	L/min			
RF Matching	1.76	V	Option Gas	0.0	%			
Smpl Depth	8.0	mm	Nebulizer Pump	0.10	rps			
S/C Temp	2	°C						

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	8.2	V			
Extract 2	-150.0	V	Cell Entrance	-30	V			
Omega Bias	-75	V	Cell Exit	-50	V			
Deflect	13.2	V						

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	false		3rd Gas Flow	0	%			
He Flow	0.0	mL/min	OctP Bias	-8.0	V			
H2 Flow	0.0	mL/min	OctP RF	190	V			
Energy Discrimination	5.0	V						

Calibration Blank Report

Sample Table

Sample Name	Blank
Data File Name	005CALB.d
Data Path Name	D:\Data\Experiments\022417A.b
Acq Date Time	2017-02-24T11:18:56-0B:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

(b) (6)

QC Analyte Table

Name	Mass	Tune Mode	CPS	%RSD
Be	9	No Gas	27	292.73
Ni	60	He	88	24.60
Ni	62	He	46	161.69
Cu	63	He	121	15.13
Cu	65	He	53	53.70
Zn	66	He	106	6.23
As	75	He	12	112.23
Se	77	H2	749	0.64
Se	78	H2	5	1463.67
Sb	121	He	45	49.38
Sb	123	He	41	34.64
[Pb]	206	He	61	82.46
[Pb]	207	He	48	44.61
Pb	208	He	233	9.43

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD
Li	6	No Gas	2109927	1.77
Ge	72	He	110512	1.02
Ge	72	H2	1174465	0.42
In	115	He	991267	0.55
Lu	175	He	2926257	1.04

Calibration Standard Report

Sample Table

Sample Name	25ppb
Data File Name	006CALS.d
Data Path Name	D:\Data\Experiments\022417A.b
Acq Date Time	2017-02-24T11:22:18-08:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	005CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	CPS	%RSD
Be	9	No Gas	154090	0.00
Ni	60	He	39761	0.00
Ni	62	He	6212	0.08
Cu	63	He	116584	0.00
Cu	65	He	59102	0.00
Zn	66	He	14683	0.01
As	75	He	8337	0.02
Se	77	H2	5369	0.06
Se	78	H2	14117	0.00
Sb	121	He	51457	0.00
Sb	123	He	41162	0.00
[Pb]	206	He	141285	0.00
[Pb]	207	He	125842	0.00
Pb	208	He	579111	0.00

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	2049148	0.74	2109927	97.12	30	120	
Ge	72	He	110551	0.64	110512	100.04	30	120	
Ge	72	H2	1188583	0.06	1174465	101.20	30	120	
In	115	He	992474	0.51	991267	100.12	30	120	
Lu	175	He	2888587	0.80	2926257	98.71	30	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV
Data File Name	007_ICV.d
Data Path Name	D:\Data\Experiments\022417A.b
Acq Date Time	2017-02-24T11:25:39-08:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	005CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	2.657	1.887	16361	2.55	2.5	106	
Ni	60	He	26.315	2.101	41575	1.39	25	105	
Ni	62	He	26.674	3.094	6582	3.49	25	107	
Cu	63	He	13.273	0.913	61555	0.35	12.5	106	
Cu	65	He	13.196	0.911	31020	0.48	12.5	106	
Zn	66	He	26.011	1.709	15175	1.99	25	104	
As	75	He	25.701	1.210	8515	1.87	25	103	
Se	77	H2	25.651	3.055	5482	1.89	25	103	
Se	78	H2	26.035	1.600	14683	1.86	25	104	
Sb	121	He	25.962	1.103	53026	0.59	25	104	
Sb	123	He	26.615	0.774	43484	0.67	25	106	
[Pb]	206	He	25.156	0.821	143466	0.05	25	101	
[Pb]	207	He	25.990	1.842	132013	1.21	25	104	
Pb	208	He	25.445	0.538	594843	0.52	25	102	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	2045202	4.30	2109927	96.93	30	120	
Ge	72	He	109842	0.74	110512	99.39	30	120	
Ge	72	H2	1187181	1.08	1174465	101.08	30	120	
In	115	He	984935	1.11	991267	99.36	30	120	
Lu	175	He	2915136	0.78	2926257	99.62	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	008_CCV.d
Data Path Name	D:\Data\Experiments\022417A.b
Acq Date Time	2017-02-24T11:28:59-08:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	005CAL8.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	25.074	2.645	154235	1.65	25	100	
Ni	60	He	25.379	1.355	39865	1.74	25	102	
Ni	62	He	26.582	1.578	6520	1.95	25	106	
Cu	63	He	25.445	0.356	117189	0.41	25	102	
Cu	65	He	25.226	0.146	58896	0.32	25	101	
Zn	66	He	25.186	1.034	14607	0.64	25	101	
As	75	He	24.805	0.934	8169	0.62	25	99	
Se	77	H2	24.891	1.198	5334	1.26	25	100	
Se	78	H2	25.330	2.394	14262	1.95	25	101	
Sb	121	He	25.069	1.453	50843	1.19	25	100	
Sb	123	He	25.611	0.529	41552	1.54	25	102	
[Pb]	206	He	24.864	2.321	140706	0.34	25	99	
[Pb]	207	He	25.012	2.286	126070	0.62	25	100	
Pb	208	He	24.881	2.040	577163	0.58	25	100	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	2045865	2.85	2109927	96.96	30	120	
Ge	72	He	109182	0.39	110512	98.80	30	120	
Ge	72	H2	1185278	0.47	1174465	100.92	30	120	
In	115	He	977966	1.01	991267	98.66	30	120	
Lu	175	He	2893554	2.59	2926257	98.88	30	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	009_ICB.d
Data Path Name	D:\Data\Experiments\022417A.b
Acq Date Time	2017-02-24T11:32:20-08:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	005CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	No Gas	0.005	80.5	57	44.4	0.04	
Ni	60	He	0.013	179.0	106	31.6	0.2	
Ni	62	He	-0.001	-4269.1	44	17.3	0.2	
Cu	63	He	0.009	17.9	160	3.6	0.2	
Cu	65	He	0.004	55.9	62	8.2	0.2	
Zn	66	He	-0.041	-39.7	80	11.0	1	
As	75	He	-0.003	-241.6	10	24.4	0.25	
Se	77	H2	-0.029	-465.3	746	2.8	20	
Se	78	H2	0.007	62.0	9	27.0	0.5	
Sb	121	He	0.019	53.3	83	25.0	0.2	
Sb	123	He	0.021	19.2	75	8.9	0.05	
[Pb]	206	He	0.004	130.8	81	33.2	0.1	
[Pb]	207	He	0.003	135.5	61	31.5	0.1	
Pb	208	He	0.005	36.4	342	11.5	0.1	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	2047599	0.63	2109927	97.05	30	120	
Ge	72	He	108565	1.25	110512	98.24	30	120	
Ge	72	H2	1178404	0.61	1174465	100.34	30	120	
In	115	He	977510	0.33	991267	98.61	30	120	
Lu	175	He	2898063	1.18	2926257	99.04	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	010_CCB.d
Data Path Name	D:\Data\Experiments\022417A.b
Acq Date Time	2017-02-24T11:35:42-08:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	005CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	No Gas	0.001	383.5	33	91.7	0.04	
Ni	60	He	0.013	183.9	106	34.9	0.2	
Ni	62	He	-0.022	-372.0	39	50.2	0.2	
Cu	63	He	0.007	49.2	149	9.0	0.2	
Cu	65	He	0.016	12.5	88	4.4	0.2	
Zn	66	He	-0.035	-127.5	83	31.2	1	
As	75	He	0.002	24.0	12	0.0	0.25	
Se	77	H2	0.173	25.5	774	0.7	20	
Se	78	H2	0.010	46.7	11	24.1	0.5	
Sb	121	He	0.012	76.9	69	27.5	0.2	
Sb	123	He	0.010	87.8	57	25.6	0.05	
[Pb]	206	He	0.000	-15264.1	60	20.0	0.1	
[Pb]	207	He	0.003	133.1	60	28.9	0.1	
Pb	208	He	0.002	169.1	266	22.5	0.1	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	2042461	2.17	2109927	96.80	30	120	
Ge	72	He	107645	1.28	110512	97.41	30	120	
Ge	72	H2	1165224	0.55	1174465	99.21	30	120	
In	115	He	977836	1.20	991267	98.65	30	120	
Lu	175	He	2871149	1.05	2926257	98.12	30	120	

Low Level Initial Calibration Verification (LLICV) Report

Sample Table

Sample Name	LLICVS
Data File Name	011LICV.d
Data Path Name	D:\Data\Experiments\022417A.b
Acq Date Time	2017-02-24T11:39:04-08:00
Sample Type	LLICV
Dilution	1
Comment	
ISTD Ref File Name	005CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	0.033	15.599	233	13.09	0.04	84	
Ni	60	He	0.384	5.071	680	4.68	0.4	96	
Ni	62	He	0.365	42.716	132	29.00	0.4	91	
Cu	63	He	0.204	1.594	1044	1.81	0.2	102	
Cu	65	He	0.182	8.023	472	7.55	0.2	91	
Zn	66	He	1.057	3.436	703	2.64	1	106	
As	75	He	1.021	4.447	343	4.89	1	102	
Se	77	H2	1.926	13.561	1095	4.09	2	96	
Se	78	H2	2.124	0.467	1185	1.67	2	106	
Sb	121	He	0.110	11.154	263	9.19	0.1	110	
Sb	123	He	0.107	4.299	212	3.94	0.1	107	
[Pb]	206	He	0.096	8.404	594	8.58	0.1	96	
[Pb]	207	He	0.094	4.279	516	5.27	0.1	94	
Pb	208	He	0.098	2.045	2480	2.56	0.1	98	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	2065005	2.01	2109927	97.87	30	120	
Ge	72	He	107739	0.68	110512	97.49	30	120	
Ge	72	H2	1168968	1.20	1174465	99.53	30	120	
In	115	He	964974	0.60	991267	97.35	30	120	
Lu	175	He	2858159	1.36	2926257	97.67	30	120	

Sample Report

Sample Table

Sample Name	LRSTD
Data File Name	012SMPL.d
Data Path Name	D:\Data\Experiments\022417A.b
Acq Date Time	2017-02-24T11:42:26-08:00
Sample Type	Sample
Dilution	1
Comment	
ISTD Ref FileName	005CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	928.410	2.04	5787040	0.02	
Ni	60	He	1079.158	2.25	1666145	0.06	
Ni	62	He	1036.372	1.01	248734	0.42	
Cu	63	He	1029.770	1.70	4667347	0.02	
Cu	65	He	1040.614	1.83	2391201	0.04	
Zn	66	He	1053.800	0.78	597929	0.18	
As	75	He	994.591	0.26	322255	0.31	
Se	77	H2	991.849	0.39	181450	0.55	
Se	78	H2	1011.256	1.09	563854	0.18	
Sb	121	He	1082.940	2.25	2157328	0.05	
Sb	123	He	1099.070	1.46	1751537	0.06	
[Pb]	206	He	1086.982	2.57	6077828	0.02	
[Pb]	207	He	1075.727	2.08	5357427	0.02	
Pb	208	He	1066.605	1.40	24448396	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	2073567	3.45	2109927	98.28	30	120	
Ge	72	He	107569	1.65	110512	97.34	30	120	
Ge	72	H2	1174121	0.42	1174465	99.97	30	120	
In	115	He	961569	1.42	991267	97.00	30	120	
Lu	175	He	2859977	2.44	2926257	97.73	30	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	013ICSA.d
Data Path Name	D:\Data\Experiments\022417A.b
Acq Date Time	2017-02-24T11:45:37-08:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	005CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	QC Flag
Be	9	No Gas	0.184	9.6	1077	7.9	
Ni	60	He	0.764	5.1	1231	5.5	
Ni	62	He	0.801	18.5	230	15.1	
Cu	63	He	0.867	2.2	3938	2.6	
Cu	65	He	0.824	2.2	1891	2.4	
Zn	66	He	1.113	17.4	713	14.2	
As	75	He	0.309	18.0	108	15.7	
Se	77	H2	1.115	3.8	923	1.8	
Se	78	H2	0.324	8.9	180	8.2	
Sb	121	He	0.240	11.8	477	10.8	
Sb	123	He	0.258	4.6	412	4.3	
[Pb]	206	He	0.275	5.5	1499	4.9	
[Pb]	207	He	0.274	9.9	1326	9.0	
Pb	208	He	0.266	3.3	5932	2.6	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	1904427	2.21	2109927	90.26	30	120	
Ge	72	He	104610	0.90	110512	94.66	30	120	
Ge	72	H2	1138749	0.96	1174465	96.96	30	120	
In	115	He	877245	0.18	991267	88.50	30	120	
Lu	175	He	2685044	0.59	2926257	91.76	30	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	014ICSB.d
Data Path Name	D:\Data\Experiments\022417A.b
Acq Date Time	2017-02-24T11:49:00-0B:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	005CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	0.076	17.170	470	16.06	-1	-7.6	
Ni	60	He	49.665	0.206	74680	1.08	50	99.3	
Ni	62	He	50.380	1.281	11804	2.01	50	100.8	
Cu	63	He	48.575	0.457	214289	0.83	50	97.2	
Cu	65	He	47.842	0.602	107004	1.53	50	95.7	
Zn	66	He	25.382	3.577	14105	2.77	25	101.5	
As	75	He	25.501	0.236	8048	0.81	25	102.0	
Se	77	H2	25.987	1.154	5271	1.12	25	103.9	
Se	78	H2	25.511	2.575	13680	2.44	25	102.0	
Sb	121	He	0.085	13.967	198	11.12	-1	-8.5	
Sb	123	He	0.083	3.077	160	2.76	-1	-8.3	
[Pb]	206	He	0.148	8.866	867	7.57	-1	-14.8	
[Pb]	207	He	0.139	7.073	721	6.41	-1	-13.9	
Pb	208	He	0.139	3.115	3341	2.05	-1	-13.9	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	1948443	1.03	2109927	92.35	30	120	
Ge	72	He	104633	1.02	110512	94.68	30	120	
Ge	72	H2	1128777	0.14	1174465	96.11	30	120	
In	115	He	891509	1.42	991267	89.94	30	120	
Lu	175	He	2794875	0.84	2926257	95.51	30	120	

Prep Blank (PB) Report

Sample Table

Sample Name	KQ1701775-01
Data File Name	015_PB.d
Data Path Name	D:\Data\Experiments\022417A.b
Acq Date Time	2017-02-24T11:52:20-08:00
Sample Type	PB
Dilution	1
Comment	5
ISTD Ref File Name	005CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	No Gas	0.012	47.1	103	36.6	0.04	
Ni	60	He	0.063	8.5	183	4.8	0.2	
Ni	62	He	0.028	78.7	51	10.0	0.2	
Cu	63	He	0.051	4.7	351	3.8	0.2	
Cu	65	He	0.047	31.3	160	20.8	0.2	
Zn	66	He	0.541	4.4	411	3.7	1	
As	75	He	0.016	92.0	17	29.6	0.25	
Se	77	H2	0.058	528.5	753	7.6	2	
Se	78	H2	0.033	37.8	24	28.1	0.5	
Sb	121	He	0.014	63.4	72	23.7	0.1	
Sb	123	He	0.017	12.7	68	6.4	0.05	
[Pb]	206	He	0.027	13.9	217	9.4	0.1	
[Pb]	207	He	0.027	31.3	186	25.2	0.1	
Pb	208	He	0.027	3.4	871	1.6	0.1	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	2073450	1.98	2109927	98.27	30	120	
Ge	72	He	107872	0.86	110512	97.61	30	120	
Ge	72	H2	1163748	1.13	1174465	99.09	30	120	
In	115	He	972154	1.26	991267	98.07	30	120	
Lu	175	He	2940903	2.21	2926257	100.50	30	120	

Laboratory Control Sample (LCS) Report

Sample Table

Sample Name	KQ1701775-02
Data File Name	016_LCS.d
Data Path Name	D:\Data\Experiments\022417A.b
Acq Date Time	2017-02-24T11:55:41-08:00
Sample Type	LCS
Dilution	1
Comment	20
ISTD Ref File Name	005CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	5.229	4.203	30987	4.23	5	104.6	
Ni	60	He	52.545	2.212	80726	2.12	50	105.1	
Ni	62	He	53.924	0.450	12906	0.40	50	107.8	
Cu	63	He	25.655	1.580	115700	1.48	25	102.6	
Cu	65	He	25.584	0.873	58490	0.95	25	102.3	
Zn	66	He	51.430	1.659	29102	1.61	50	102.9	
As	75	He	50.503	0.879	16274	0.98	50	101.0	
Se	77	H2	49.861	0.804	9710	0.74	50	99.7	
Se	78	H2	51.346	0.629	28279	0.51	50	102.7	
Sb	121	He	49.790	0.499	96724	0.66	50	99.6	
Sb	123	He	50.540	0.636	78532	0.79	50	101.1	
[Pb]	206	He	51.451	0.467	280267	1.79	50	102.9	
[Pb]	207	He	53.608	1.318	260064	0.93	50	107.2	
Pb	208	He	52.589	0.857	1174115	0.77	50	105.2	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	1970655	5.48	2109927	93.40	30	120	
Ge	72	He	106912	0.12	110512	96.74	30	120	
Ge	72	H2	1159527	0.60	1174465	98.73	30	120	
In	115	He	937102	0.16	991267	94.54	30	120	
Lu	175	He	2784800	1.62	2926257	95.17	30	120	

All Reference Sample Report

Sample Table

Sample Name	K1701351-001
Data File Name	017_ARF.d
Data Path Name	D:\Data\Experiments\022417A.b
Acq Date Time	2017-02-24T11:59:03-08:00
Sample Type	AllRef
Dilution	1
Comment	5
ISTD Ref FileName	005CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	2.017	3.13	12775	0.02	
Ni	60	He	16.132	0.94	26613	0.06	
Ni	62	He	16.183	1.70	4183	0.39	
Cu	63	He	30.125	1.96	145457	0.02	
Cu	65	He	29.757	0.73	72850	0.04	
Zn	66	He	87.431	2.57	52897	0.17	
As	75	He	9.967	0.62	3450	0.29	
Se	77	H2	1.953	4.52	1142	0.17	
Se	78	H2	0.449	5.91	264	0.17	
Sb	121	He	0.458	2.97	998	0.05	
Sb	123	He	0.495	4.02	864	0.06	
[Pb]	206	He	66.278	2.29	380455	0.02	
[Pb]	207	He	63.643	3.27	325370	0.02	
Pb	208	He	64.882	3.06	1526525	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	2102021	1.56	2109927	99.63	30	120	
Ge	72	He	114515	2.19	110512	103.62	30	120	
Ge	72	H2	1213624	0.47	1174465	103.33	30	120	
In	115	He	1002349	0.35	991267	101.12	30	120	
Lu	175	He	2935550	1.73	2926257	100.32	30	120	

Sample Report

Sample Table

Sample Name	K1701351-001L
Data File Name	018SMPL.d
Data Path Name	D:\Data\Experiments\022417A.b
Acq Date Time	2017-02-24T12:02:25-08:00
Sample Type	Sample
Dilution	1
Comment	25
ISTD Ref FileName	005CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	0.395	14.48	2527	0.02	
Ni	60	He	3.372	2.71	5425	0.06	
Ni	62	He	3.388	3.20	879	0.39	
Cu	63	He	6.186	0.15	28872	0.02	
Cu	65	He	6.147	1.92	14538	0.04	
Zn	66	He	17.671	1.38	10384	0.17	
As	75	He	2.042	2.15	690	0.30	
Se	77	H2	0.583	45.89	880	0.07	
Se	78	H2	0.100	12.49	63	0.16	
Sb	121	He	0.104	16.46	253	0.04	
Sb	123	He	0.096	10.69	194	0.05	
[Pb]	206	He	13.427	1.38	75319	0.02	
[Pb]	207	He	13.056	0.37	65227	0.02	
Pb	208	He	13.252	0.52	304694	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	2108326	1.87	2109927	99.92	30	120	
Ge	72	He	110289	0.87	110512	99.80	30	120	
Ge	72	H2	1209041	0.45	1174465	102.94	30	120	
In	115	He	968156	0.27	991267	97.67	30	120	
Lu	175	He	2866050	0.23	2926257	97.94	30	120	

Post Digestion Spike Sample (PDS) Report

Sample Table

Sample Name	K1701351-001A
Data File Name	019_PDS.d
Data Path Name	D:\Data\Experiments\022417A.b
Acq Date Time	2017-02-24T12:05:44-08:00
Sample Type	PDS
Dilution	1
Comment	5
QC Ref File Name	017_ARF.d
ISTD Ref File Name	005CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %R5D	Spk Amt	%Rec	QC Flag
Be	9	No Gas	54.933	0.947	344163	0.33	50	106	
Ni	60	He	67.477	0.561	112427	1.12	50	103	
Ni	62	He	68.358	1.065	17734	1.00	50	104	
Cu	63	He	80.519	1.745	393579	0.13	50	101	
Cu	65	He	79.432	1.095	196860	0.85	50	99	
Zn	66	He	137.500	1.293	84210	0.57	50	100	
As	75	He	60.411	1.880	21112	0.94	50	101	
Se	77	H2	54.118	2.603	10911	2.17	50	104	
Se	78	H2	53.210	0.575	30523	0.51	50	106	
Sb	121	He	52.854	0.342	109929	1.11	50	105	
Sb	123	He	53.442	1.249	88899	0.32	50	106	
[Pb]	206	He	114.000	0.548	667575	0.21	50	95	
[Pb]	207	He	111.998	0.865	584182	0.87	50	97	
Pb	208	He	115.032	2.690	2761022	2.23	50	100	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	2083244	1.27	2109927	98.74	30	120	
Ge	72	He	115979	1.66	110512	104.95	30	120	
Ge	72	H2	1207689	0.36	1174465	102.83	30	120	
In	115	He	1003346	1.26	991267	101.22	30	120	
Lu	175	He	2994163	0.69	2926257	102.32	30	120	

Matrix Spike Sample (MS) Report

Sample Table

Sample Name	K1701351-001S
Data File Name	020_Spk.d
Data Path Name	D:\Data\Experiments\022417A.b
Acq Date Time	2017-02-24T12:09:06-08:00
Sample Type	Spike
Dilution	1
Comment	5
QC Ref File Name	017_ARF.d
ISTD Ref File Name	005CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Spk Amt	%Rec	QC Flag
Be	9	No Gas	22.995	0.553	143211	1.58	20	105	
Ni	60	He	222.935	0.527	361139	0.54	200	103	
Ni	62	He	228.795	0.836	57634	0.61	200	106	
Cu	63	He	133.952	0.967	636959	0.94	100	104	
Cu	65	He	132.890	0.886	320382	1.36	100	103	
Zn	66	He	291.381	0.982	173497	1.33	200	102	
As	75	He	209.262	0.920	71122	0.66	200	100	
Se	77	H2	201.916	0.809	37804	0.92	200	100	
Se	78	H2	204.927	0.661	115088	0.52	200	102	
Sb	121	He	72.459	0.859	145653	0.76	200	36	Flag
Sb	123	He	73.857	1.841	118737	0.30	200	37	Flag
[Pb]	206	He	302.114	0.810	1733749	1.29	200	118	
[Pb]	207	He	275.257	0.773	1407026	1.32	200	106	
Pb	208	He	292.232	0.720	6874528	1.52	200	114	

PPS is in Control

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	2070378	1.11	2109927	98.13	30	120	
Ge	72	He	112824	1.05	110512	102.09	30	120	
Ge	72	H2	1182542	0.62	1174465	100.69	30	120	
In	115	He	969889	1.54	991267	97.84	30	120	
Lu	175	He	2934514	1.65	2926257	100.28	30	120	

Matrix Spike Sample (MS) Report

Sample Table

Sample Name	K1701351-001SD
Data File Name	021_Spk.d
Data Path Name	D:\Data\Experiments\022417A.b
Acq Date Time	2017-02-24T12:12:24-08:00
Sample Type	Spike
Dilution	1
Comment	5
QC Ref File Name	017_ARF.d
ISTD Ref File Name	005CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Spk Amt	%Rec	QC Flag
Be	9	No Gas	22.762	0.201	141937	1.07	20	104	
Ni	60	He	223.062	1.375	362666	1.54	200	103	
Ni	62	He	225.309	2.387	56957	1.51	200	105	
Cu	63	He	134.569	2.289	642160	1.49	100	104	
Cu	65	He	132.909	1.057	321584	1.00	100	103	
Zn	66	He	288.113	0.781	172172	0.60	200	100	
As	75	He	206.298	1.966	70364	1.00	200	98	
Se	77	H2	203.617	1.105	38227	0.31	200	101	
Se	78	H2	204.130	0.828	114976	0.73	200	102	
Sb	121	He	75.947	0.557	151342	0.89	200	38	Flag
Sb	123	He	77.718	1.112	123872	1.11	200	39	Flag
[Pb]	206	He	298.469	0.318	1706959	0.69	200	116	
[Pb]	207	He	272.210	0.876	1386675	1.10	200	104	
Pb	208	He	289.505	0.929	6786754	0.92	200	112	

PDS - 13 in Control

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	2073019	0.94	2109927	98.25	30	120	
Ge	72	He	113236	1.16	110512	102.46	30	120	
Ge	72	H2	1186019	0.78	1174465	100.98	30	120	
In	115	He	961423	0.68	991267	96.99	30	120	
Lu	175	He	2924328	0.91	2926257	99.93	30	120	

Sample Report

Sample Table

Sample Name	K1701351-002
Data File Name	022SMPL.d
Data Path Name	D:\Data\Experiments\022417A.b
Acq Date Time	2017-02-24T12:15:44-08:00
Sample Type	Sample
Dilution	1
Comment	5
ISTD Ref FileName	005CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	2.782	0.33	17188	0.02	
Ni	60	He	14.172	1.51	24229	0.06	
Ni	62	He	14.361	3.69	3850	0.37	
Cu	63	He	125.608	0.69	628059	0.02	
Cu	65	He	124.659	1.25	315998	0.04	
Zn	66	He	136.716	1.53	85651	0.16	
As	75	He	13.315	2.56	4771	0.28	
Se	77	H2	6.578	0.61	2021	0.33	
Se	78	H2	2.414	4.02	1403	0.17	
Sb	121	He	10.879	1.61	22301	0.05	
Sb	123	He	11.032	1.18	18094	0.06	
[Pb]	206	He	1029.009	1.19	5974647	0.02	>LDR
[Pb]	207	He	970.160	1.72	5017156	0.02	
Pb	208	He	985.227	1.79	23447221	0.00	

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QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	2051324	2.16	2109927	97.22	30	120	
Ge	72	He	118634	0.80	110512	107.35	30	120	
Ge	72	H2	1218847	1.36	1174465	103.78	30	120	
In	115	He	987399	1.24	991267	99.61	30	120	
Lu	175	He	2969310	1.62	2926257	101.47	30	120	

Sample Report

Sample Table

Sample Name	K17013S1-003
Data File Name	023SMPL.d
Data Path Name	D:\Data\Experiments\022417A.b
Acq Date Time	2017-02-24T12:19:02-08:00
Sample Type	Sample
Dilution	1
Comment	5
ISTD Ref FileName	005CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	2.211	4.87	14363	0.02	
Ni	60	He	11.461	1.49	19207	0.06	
Ni	62	He	11.417	7.29	3007	0.38	
Cu	63	He	76.860	1.13	376390	0.02	
Cu	65	He	75.878	2.19	188376	0.04	
Zn	66	He	113.075	1.23	69397	0.16	
As	7S	He	7.685	3.47	2702	0.28	
Se	77	H2	2.124	11.37	1191	0.18	
Se	78	H2	0.642	9.00	381	0.17	
Sb	121	He	12.556	0.52	26350	0.05	
Sb	123	He	12.746	0.59	21399	0.06	
[Pb]	206	He	875.824	1.68	5101763	0.02	
[Pb]	207	He	849.586	1.88	4408467	0.02	
Pb	208	He	849.197	1.00	20277614	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	2157267	2.36	2109927	102.24	30	120	
Ge	72	He	116176	0.65	110512	105.12	30	120	
Ge	72	H2	1231127	0.93	1174465	104.82	30	120	
In	115	He	1011029	0.32	991267	101.99	30	120	
Lu	175	He	2978766	0.63	2926257	101.79	30	120	

Sample Report

Sample Table

Sample Name	K1701351-004
Data File Name	024SMPL.d
Data Path Name	D:\Data\Experiments\022417A.b
Acq Date Time	2017-02-24T12:22:20-08:00
Sample Type	Sample
Dilution	1
Comment	5
ISTD Ref FileName	005CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	2.963	0.53	18760	0.02	
Ni	60	He	17.944	2.47	29986	0.06	
Ni	62	He	18.066	1.75	4726	0.38	
Cu	63	He	27.767	1.10	135934	0.02	
Cu	65	He	27.494	1.05	68239	0.04	
Zn	66	He	80.894	0.02	49635	0.16	
As	75	He	12.184	1.29	4272	0.29	
Se	77	H2	2.684	12.20	1272	0.21	
Se	78	H2	0.600	3.62	349	0.17	
Sb	121	He	2.067	3.27	4304	0.05	
Sb	123	He	2.064	2.69	3441	0.06	
[Pb]	206	He	87.271	0.70	502331	0.02	
[Pb]	207	He	81.071	1.06	415647	0.02	
Pb	208	He	83.860	0.87	1978616	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	2101960	3.20	2109927	99.62	30	120	
Ge	72	He	116073	1.00	110512	105.03	30	120	
Ge	72	H2	1206906	0.16	1174465	102.76	30	120	
In	115	He	993966	1.28	991267	100.27	30	120	
Lu	175	He	2943015	0.61	2926257	100.57	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	025_CCV.d
Data Path Name	D:\Data\Experiments\022417A.b
Acq Date Time	2017-02-24T12:25:41-08:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	005CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	25.255	1.836	157420	1.27	25	101	
Ni	60	He	25.906	1.707	41398	0.68	25	104	
Ni	62	He	25.877	1.313	6459	0.75	25	104	
Cu	63	He	25.675	2.097	120306	1.13	25	103	
Cu	65	He	25.238	0.625	59957	0.91	25	101	
Zn	66	He	25.578	1.154	15096	2.44	25	102	
As	75	He	24.809	1.264	8314	1.99	25	99	
Se	77	H2	24.776	1.888	5402	1.86	25	99	
Se	78	H2	25.224	0.797	14443	0.84	25	101	
Sb	121	He	25.132	0.482	51940	0.61	25	101	
Sb	123	He	25.533	1.035	42212	1.61	25	102	
[Pb]	206	He	24.795	1.061	141654	0.45	25	99	
[Pb]	207	He	24.935	0.780	126890	1.38	25	100	
Pb	208	He	24.918	0.514	583540	1.13	25	100	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	2072917	2.71	2109927	98.25	30	120	
Ge	72	He	111098	1.32	110512	100.53	30	120	
Ge	72	H2	1205232	0.33	1174465	102.62	30	120	
In	115	He	996534	0.64	991267	100.53	30	120	
Lu	175	He	2920316	1.49	2926257	99.80	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	026_CCB.d
Data Path Name	D:\Data\Experiments\022417A.b
Acq Date Time	2017-02-24T12:29:02-08:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	005CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	No Gas	0.012	93.4	97	68.9	0.04	
Ni	60	He	-0.007	-160.1	78	21.1	0.2	
Ni	62	He	-0.037	-229.8	37	56.8	0.2	
Cu	63	He	0.013	36.6	181	12.3	0.2	
Cu	65	He	0.020	39.1	100	17.6	0.2	
Zn	66	He	-0.043	-65.2	81	21.1	1	
As	75	He	0.013	150.6	16	41.0	0.25	
Se	77	H2	0.015	1945.0	770	7.8	20	
Se	78	H2	0.022	61.2	18	41.9	0.5	
Sb	121	He	0.020	62.4	87	29.6	0.2	
Sb	123	He	0.013	9.1	63	3.1	0.05	
[Pb]	206	He	0.038	18.3	278	15.7	0.1	
[Pb]	207	He	0.040	18.0	252	13.2	0.1	
Pb	208	He	0.042	5.3	1213	3.4	0.1	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	2041530	1.78	2109927	96.76	30	120	
Ge	72	He	111046	0.92	110512	100.48	30	120	
Ge	72	H2	1202650	0.78	1174465	102.40	30	120	
In	115	He	993804	0.33	991267	100.26	30	120	
Lu	175	He	2915532	1.40	2926257	99.63	30	120	

Sample Report

Sample Table

Sample Name	K1701351-005
Data File Name	027SMPL.d
Data Path Name	D:\Data\Experiments\022417A.b
Acq Date Time	2017-02-24T12:32:24-08:00
Sample Type	Sample
Dilution	1
Comment	5
ISTD Ref FileName	005CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	3.224	3.40	20802	0.02	
Ni	60	He	20.130	0.56	34213	0.06	
Ni	62	He	20.311	0.57	5399	0.38	
Cu	63	He	30.699	1.24	152859	0.02	
Cu	65	He	30.513	0.98	77023	0.04	
Zn	66	He	110.645	1.34	69010	0.16	
As	75	He	10.880	1.65	3882	0.28	
Se	77	H2	4.286	1.90	1603	0.27	
Se	78	H2	0.785	8.65	464	0.17	
Sb	121	He	0.724	1.78	1548	0.05	
Sb	123	He	0.781	7.28	1337	0.06	
[Pb]	206	He	47.502	1.29	276494	0.02	
[Pb]	207	He	45.010	0.95	233356	0.02	
Pb	208	He	46.250	1.19	1103461	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	2142259	0.89	2109927	101.53	30	120	
Ge	72	He	118069	0.94	110512	106.84	30	120	
Ge	72	H2	1230550	0.62	1174465	104.78	30	120	
In	115	He	1000956	1.00	991267	100.98	30	120	
Lu	175	He	2975891	1.17	2926257	101.70	30	120	

Sample Report

Sample Table

Sample Name	K1701351-006
Data File Name	028SMPL.d
Data Path Name	D:\Data\Experiments\022417A.b
Acq Date Time	2017-02-24T12:35:43-08:00
Sample Type	Sample
Dilution	1
Comment	5
ISTD Ref FileName	005CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	2.195	7.23	14069	0.02	
Ni	60	He	18.680	1.30	31223	0.06	
Ni	62	He	19.142	4.32	5005	0.38	
Cu	63	He	45.377	1.09	222106	0.02	
Cu	65	He	45.057	1.76	111806	0.04	
Zn	66	He	108.120	2.65	66304	0.16	
As	75	He	13.531	0.68	4744	0.29	
Se	77	H2	2.150	10.13	1189	0.18	
Se	78	H2	0.524	3.07	310	0.17	
Sb	121	He	0.669	5.10	1418	0.05	
Sb	123	He	0.682	1.59	1162	0.06	
[Pb]	206	He	81.577	1.03	471348	0.02	
[Pb]	207	He	78.823	1.01	405666	0.02	
Pb	208	He	80.070	0.95	1896385	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	2128508	2.03	2109927	100.88	30	120	
Ge	72	He	116096	1.30	110512	105.05	30	120	
Ge	72	H2	1223881	0.41	1174465	104.21	30	120	
In	115	He	990815	0.73	991267	99.95	30	120	
Lu	175	He	2954309	1.01	2926257	100.96	30	120	

Sample Report

Sample Table

Sample Name	K1701351-007
Data File Name	029SMPL.d
Data Path Name	D:\Data\Experiments\022417A.b
Acq Date Time	2017-02-24T12:39:03-08:00
Sample Type	Sample
Dilution	1
Comment	5
ISTD Ref FileName	005CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	2.103	5.48	13692	0.02	
Ni	60	He	20.795	1.63	34702	0.06	
Ni	62	He	20.164	1.45	5263	0.38	
Cu	63	He	34.776	1.00	170032	0.02	
Cu	65	He	34.429	0.38	85337	0.04	
Zn	66	He	185.436	0.32	113502	0.16	
As	75	He	12.922	0.58	4525	0.29	
Se	77	H2	2.277	14.47	1199	0.19	
Se	78	H2	0.537	2.61	314	0.17	
Sb	121	He	0.597	6.44	1285	0.05	
Sb	123	He	0.598	3.12	1036	0.06	
[Pb]	206	He	59.428	1.97	347987	0.02	
[Pb]	207	He	57.721	1.87	301060	0.02	
Pb	208	He	58.369	1.70	1401057	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	2161778	1.87	2109927	102.46	30	120	
Ge	72	He	115938	0.50	110512	104.91	30	120	
Ge	72	H2	1210347	0.41	1174465	103.06	30	120	
In	115	He	1003026	1.07	991267	101.19	30	120	
Lu	175	He	2994284	1.52	2926257	102.32	30	120	

Sample Report

Sample Table

Sample Name	K1701351-008
Data File Name	030SMPL.d
Data Path Name	D:\Data\Experiments\022417A.b
Acq Date Time	2017-02-24T12:42:24-08:00
Sample Type	Sample
Dilution	1
Comment	5
ISTD Ref FileName	005CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	2.771	1.81	17903	0.02	
Ni	60	He	27.334	1.59	45913	0.06	
Ni	62	He	27.773	6.05	7284	0.38	
Cu	63	He	26.914	0.15	132578	0.02	
Cu	65	He	26.546	2.36	66281	0.04	
Zn	66	He	130.272	0.50	80351	0.16	
As	75	He	11.192	3.15	3948	0.28	
Se	77	H2	3.320	4.21	1396	0.24	
Se	78	H2	0.646	9.82	377	0.17	
Sb	121	He	0.355	5.29	771	0.05	
Sb	123	He	0.383	3.48	668	0.06	
[Pb]	206	He	39.645	1.10	227691	0.02	
[Pb]	207	He	37.816	0.42	193451	0.02	
Pb	208	He	38.866	0.31	914973	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	2144633	1.03	2109927	101.64	30	120	
Ge	72	He	116783	0.96	110512	105.67	30	120	
Ge	72	H2	1211085	1.07	1174465	103.12	30	120	
In	115	He	988037	0.40	991267	99.67	30	120	
Lu	175	He	2935987	0.45	2926257	100.33	30	120	

Sample Report

Sample Table

Sample Name	K1701351-009
Data File Name	031SMPL.d
Data Path Name	D:\Data\Experiments\022417A.b
Acq Date Time	2017-02-24T12:45:44-08:00
Sample Type	Sample
Dilution	1
Comment	5
ISTD Ref FileName	005CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	1.854	4.84	11817	0.02	
Ni	60	He	18.332	1.49	30518	0.06	
Ni	62	He	18.915	5.34	4927	0.38	
Cu	63	He	43.646	0.90	212781	0.02	
Cu	65	He	43.233	1.23	106851	0.04	
Zn	66	He	118.624	1.91	72450	0.16	
As	75	He	11.328	2.86	3957	0.29	
Se	77	H2	1.802	6.00	1123	0.16	
Se	78	H2	0.411	6.60	245	0.17	
Sb	121	He	0.607	2.66	1292	0.05	
Sb	123	He	0.608	4.23	1042	0.06	
[Pb]	206	He	105.091	1.41	604026	0.02	
[Pb]	207	He	102.893	1.13	526776	0.02	
Pb	208	He	103.951	1.18	2449108	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	2115015	1.84	2109927	100.24	30	120	
Ge	72	He	115622	0.53	110512	104.62	30	120	
Ge	72	H2	1224026	0.66	1174465	104.22	30	120	
In	115	He	992285	1.26	991267	100.10	30	120	
Lu	175	He	2938993	1.09	2926257	100.44	30	120	

Sample Report

Sample Table

Sample Name	K1701351-010
Data File Name	032SMPL.d
Data Path Name	D:\Data\Experiments\022417A.b
Acq Date Time	2017-02-24T12:49:05-08:00
Sample Type	Sample
Dilution	1
Comment	5
ISTD Ref FileName	005CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	1.846	1.14	11844	0.02	
Ni	60	He	15.852	0.54	26634	0.06	
Ni	62	He	16.326	3.80	4296	0.38	
Cu	63	He	30.473	0.57	149900	0.02	
Cu	65	He	30.344	2.16	75662	0.04	
Zn	66	He	90.825	1.37	55985	0.16	
As	75	He	10.778	2.42	3799	0.28	
Se	77	H2	2.071	13.28	1190	0.17	
Se	78	H2	0.462	5.97	278	0.17	
Sb	121	He	0.489	1.76	1062	0.05	
Sb	123	He	0.510	1.35	891	0.06	
[Pb]	206	He	67.175	1.35	389891	0.02	
[Pb]	207	He	65.266	2.27	337388	0.02	
Pb	208	He	65.991	1.59	1569993	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	2128521	1.91	2109927	100.88	30	120	
Ge	72	He	116636	0.78	110512	105.54	30	120	
Ge	72	H2	1240797	0.87	1174465	105.65	30	120	
In	115	He	1004116	1.16	991267	101.30	30	120	
Lu	175	He	2967797	1.38	2926257	101.42	30	120	

Sample Report

Sample Table

Sample Name	K1701351-011
Data File Name	033SMPL.d
Data Path Name	D:\Data\Experiments\022417A.b
Acq Date Time	2017-02-24T12:52:28-08:00
Sample Type	Sample
Dilution	1
Comment	5
ISTD Ref FileName	005CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	2.073	4.20	13142	0.02	
Ni	60	He	17.644	2.61	29210	0.06	
Ni	62	He	18.231	8.20	4721	0.39	
Cu	63	He	21.005	0.96	101907	0.02	
Cu	65	He	20.641	1.87	50760	0.04	
Zn	66	He	83.634	2.57	50824	0.16	
As	75	He	7.477	3.51	2601	0.29	
Se	77	H2	2.358	4.31	1215	0.19	
Se	78	H2	0.424	6.58	249	0.17	
Sb	121	He	0.296	2.71	654	0.05	
Sb	123	He	0.282	8.79	504	0.06	
[Pb]	206	He	26.656	1.76	153980	0.02	
[Pb]	207	He	25.077	0.61	129041	0.02	
Pb	208	He	25.847	1.33	612020	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	2105172	2.13	2109927	99.77	30	120	
Ge	72	He	115000	1.63	110512	104.06	30	120	
Ge	72	H2	1211123	0.79	1174465	103.12	30	120	
In	115	He	992175	0.76	991267	100.09	30	120	
Lu	175	He	2953151	1.78	2926257	100.92	30	120	

Sample Report

Sample Table

Sample Name	K1701351-012
Data File Name	034SMPL.d
Data Path Name	D:\Data\Experiments\022417A.b
Acq Date Time	2017-02-24T12:55:49-08:00
Sample Type	Sample
Dilution	1
Comment	5
ISTD Ref FileName	005CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	7.907	3.37	49803	0.02	
Ni	60	He	5.590	2.96	9698	0.06	
Ni	62	He	5.852	8.08	1611	0.36	
Cu	63	He	17.051	1.61	86125	0.02	
Cu	65	He	16.971	1.89	43455	0.04	
Zn	66	He	138.923	1.74	87815	0.16	
As	75	He	7.850	1.19	2843	0.28	
Se	77	H2	6.447	1.33	2021	0.32	
Se	78	H2	1.217	0.99	719	0.17	
Sb	121	He	1.639	1.16	3445	0.05	
Sb	123	He	1.642	2.10	2766	0.06	
[Pb]	206	He	417.065	0.39	2432975	0.02	
[Pb]	207	He	385.954	2.18	2005056	0.02	
Pb	208	He	388.360	0.58	9285873	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	2093956	2.25	2109927	99.24	30	120	
Ge	72	He	119696	0.96	110512	108.31	30	120	
Ge	72	H2	1233786	0.51	1174465	105.05	30	120	
In	115	He	1000942	0.77	991267	100.98	30	120	
Lu	175	He	2982777	1.26	2926257	101.93	30	120	

Sample Report

Sample Table

Sample Name	K1701351-013
Data File Name	035SMPL.d
Data Path Name	D:\Data\Experiments\022417A.b
Acq Date Time	2017-02-24T12:59:07-08:00
Sample Type	Sample
Dilution	1
Comment	5
ISTD Ref FileName	00SCALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	5.882	1.22	35633	0.02	
Ni	60	He	9.299	1.56	15394	0.06	
Ni	62	He	9.418	3.48	2455	0.38	
Cu	63	He	18.998	1.05	91883	0.02	
Cu	65	He	18.795	2.65	46070	0.04	
Zn	66	He	93.691	0.93	56748	0.17	
As	75	He	9.185	2.41	3184	0.29	
Se	77	H2	6.514	1.64	1939	0.34	
Se	78	H2	1.370	2.85	770	0.18	
Sb	121	He	0.189	3.61	417	0.05	
Sb	123	He	0.209	7.68	371	0.06	
[Pb]	206	He	28.104	2.26	157742	0.02	
[Pb]	207	He	24.579	2.36	122885	0.02	
Pb	208	He	26.634	2.30	612770	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	2013073	1.00	2109927	95.41	30	120	
Ge	72	He	114629	1.84	110512	103.73	30	120	
Ge	72	H2	1176158	1.01	1174465	100.14	30	120	
In	115	He	954679	1.10	991267	96.31	30	120	
Lu	175	He	2870021	2.38	2926257	98.08	30	120	

Sample Report

Sample Table

Sample Name	K1701351-015
Data File Name	036SMPL.d
Data Path Name	D:\Data\Experiments\022417A.b
Acq Date Time	2017-02-24T13:02:28-08:00
Sample Type	Sample
Dilution	1
Comment	5
ISTD Ref FileName	005CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	%RSD	QC Flag
Be	9	No Gas	7.032	1.46	44125	0.02	
Ni	60	He	9.061	2.52	15801	0.06	
Ni	62	He	9.679	2.19	2657	0.36	
Cu	63	He	11.468	0.49	58483	0.02	
Cu	65	He	11.258	0.17	29101	0.04	
Zn	66	He	174.956	1.23	111533	0.16	
As	75	He	9.494	2.08	3465	0.27	
Se	77	H2	8.830	4.71	2465	0.36	
Se	78	H2	1.596	2.30	936	0.17	
Sb	121	He	0.206	7.23	468	0.04	
Sb	123	He	0.196	5.48	362	0.05	
[Pb]	206	He	32.715	2.16	189160	0.02	
[Pb]	207	He	27.997	1.69	144202	0.02	
Pb	208	He	30.641	1.57	726295	0.00	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	2085187	0.24	2109927	98.83	30	120	
Ge	72	He	120745	0.30	110512	109.26	30	120	
Ge	72	H2	1227439	0.32	1174465	104.51	30	120	
In	115	He	990711	0.72	991267	99.94	30	120	
Lu	175	He	2956371	1.67	2926257	101.03	30	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	037_CCV.d
Data Path Name	D:\Data\Experiments\022417A.b
Acq Date Time	2017-02-24T13:05:50-08:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	005CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	25.278	1.802	156420	1.22	25	101	
Ni	60	He	25.531	1.070	42127	1.35	25	102	
Ni	62	He	25.780	2.974	6645	3.59	25	103	
Cu	63	He	25.484	0.800	123301	1.67	25	102	
Cu	65	He	25.627	1.406	62850	0.51	25	103	
Zn	66	He	24.976	2.460	15217	1.82	25	100	
As	75	He	24.740	0.438	8559	0.86	25	99	
Se	77	H2	24.720	1.598	5503	1.08	25	99	
Se	78	H2	25.616	0.869	14971	1.15	25	102	
Sb	121	He	25.504	0.357	53290	0.33	25	102	
Sb	123	He	25.911	2.572	43309	2.66	25	104	
[Pb]	206	He	24.683	1.283	143142	1.20	25	99	
[Pb]	207	He	24.576	1.433	126942	1.51	25	98	
Pb	208	He	24.582	0.675	584370	1.22	25	98	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	2057998	3.00	2109927	97.54	30	120	
Ge	72	He	114699	1.14	110512	103.79	30	120	
Ge	72	H2	1230223	0.36	1174465	104.75	30	120	
In	115	He	1007549	0.62	991267	101.64	30	120	
Lu	175	He	2964293	1.31	2926257	101.30	30	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	038_CCB.d
Data Path Name	D:\Data\Experiments\022417A.b
Acq Date Time	2017-02-24T13:09:11-08:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	005CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	No Gas	0.009	38.5	83	25.0	0.04	
Ni	60	He	-0.005	-249.2	82	26.1	0.2	
Ni	62	He	-0.075	-27.1	28	18.3	0.2	
Cu	63	He	0.013	48.4	189	16.7	0.2	
Cu	65	He	0.018	22.5	98	10.4	0.2	
Zn	66	He	-0.007	-508.3	104	18.7	1	
As	75	He	0.007	511.6	14	82.6	0.25	
Se	77	H2	-0.029	-733.7	777	5.0	20	
Se	78	H2	0.012	51.9	12	28.5	0.5	
Sb	121	He	0.009	48.6	66	15.2	0.2	
Sb	123	He	0.002	194.1	46	13.9	0.05	
[Pb]	206	He	0.030	17.4	232	12.4	0.1	
[Pb]	207	He	0.026	20.9	182	14.0	0.1	
Pb	208	He	0.029	8.3	922	4.8	0.1	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	2076656	2.22	2109927	98.42	30	120	
Ge	72	He	113653	0.92	110512	102.84	30	120	
Ge	72	H2	1227748	0.20	1174465	104.54	30	120	
In	115	He	1022721	1.14	991267	103.17	30	120	
Lu	175	He	2943188	1.42	2926257	100.58	30	120	

Low Level Continuing Calibration Verification (LLCCV) Report

Sample Table

Sample Name	LLCCVS
Data File Name	039LCCV.d
Data Path Name	D:\Data\Experiments\022417A.b
Acq Date Time	2017-02-24T13:12:32-08:00
Sample Type	LLCCV
Dilution	1
Comment	
ISTD Ref File Name	005CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	QC Flag
Be	9	No Gas	0.039	36.182	270	33.95	0.04	97	
Ni	60	He	0.424	3.298	772	3.62	0.4	106	
Ni	62	He	0.392	11.783	144	8.74	0.4	98	
Cu	63	He	0.201	12.487	1072	10.88	0.2	100	
Cu	65	He	0.230	5.139	606	5.43	0.2	115	
Zn	66	He	0.996	11.841	697	9.77	1	100	
As	75	He	1.069	8.682	373	8.66	1	107	
Se	77	H2	2.087	14.259	1170	3.85	2	104	
Se	78	H2	2.095	2.386	1217	2.49	2	105	
Sb	121	He	0.112	19.445	279	14.98	0.1	112	
Sb	123	He	0.104	4.935	216	2.72	0.1	104	
[Pb]	206	He	0.120	9.109	754	7.26	0.1	120	
[Pb]	207	He	0.131	7.633	722	7.07	0.1	131	
Pb	208	He	0.122	6.160	3142	4.87	0.1	122	

QC ISTD Table

Name	Mass	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	No Gas	2079264	1.52	2109927	98.55	30	120	
Ge	72	He	112266	0.82	110512	101.59	30	120	
Ge	72	H2	1217521	1.27	1174465	103.67	30	120	
In	115	He	1010622	1.29	991267	101.95	30	120	
Lu	175	He	2960515	1.17	2926257	101.17	30	120	

Service Request # K1701351,K1701432

Instrument ID # K-ICP-MS-03
Calibration 022717A
ALS LIMS Run # 536154

Cal Std: MS21-49I ICSA Std: MS21-48J
ICV Std: MS21-48H ICSAB Std: MS21-48K
LLICV Std: MS21-48I
I.S. Solution: MS21-34-A

ICP-MS Data Review Form

	Yes	No	NA
1. Appropriate standardization completed	X		
2. ICV in control (+/- 10%)	X		
3. CCV's in control (+/- 10%)	X		
4. ICB/CCB's below MRL	X		
5. LLICV standard analyzed and in control	X		
6. ICS standards within 20% of true value	X		
6. All analytes within instrument linear range	X		
7. Adequate rinse out time allowed	X		
8. Internal standards in control	X		
9. Interferences checked	X		
10. Was the run terminated? If so, why.		X	

See Benchsheet exception report for sample batch QC information.

Comments: K1701432: High RPD for Pb. Sample contains particulates.

Primary Review by (b) (6) Date 2/27/17
Secondary Review by Date 2/27/17

Data Review Form

Instrument ID#: **K-ICP-MS-03**

DataFile Name: **R:\ICP\WIP\DATA\K-ICP-MS-03 (X-Series) \022717AMS03.csv**

K1701351

K1701351-016SDL - Metals T - 6020A

Serial Dilution

6020A/Metals T - Sb123 - Recovery: 12 Limit: True

PDS in control

KQ1701660-02LCS - Metals T - 6020A

LCS Recovery

6020A/Metals T - Cu65 - Recovery: 84 Limits: 85 - 118 True

±20% in control

K1701432

KQ1701736-01MB - Metals D - 6020A

MB Evaluation

6020A/Metals T - Pb208 - Result: 0.0234 MRL: 0.02 True

6020A/Metals D - Pb208 - Result: 0.0234 MRL: 0.02 True

Use 0.02 ppb MRL

K1701432-001DUP - Metals T - 6020A

DUP RPD

6020A/Metals T - Pb208 - RPD: 30 Limit: 20 True

6020A/Metals D - Pb208 - RPD: 30 Limit: 20 True

Particulate Report + FLAG

K1701432-001SDL - Metals T - 6020A

Serial Dilution

6020A/Metals T - Cu65 - Recovery: 13 Limit: 90 True

6020A/Metals T - Zn66 - Recovery: 19 Limit: 90 True

6020A/Metals D - Cu65 - Recovery: 13 Limit: 90 True

6020A/Metals D - Zn66 - Recovery: 19 Limit: 90 True

PDS in control

K1701432-001MS - Metals T - 6020A

MS Recovery

6020A/Metals T - Cu65 - Recovery: 74 Limits: 75 - 125 True

6020A/Metals D - Cu65 - Recovery: 74 Limits: 75 - 125 True

PDS in control

K1701432-001DMS - Metals T - 6020A

DMS Recovery

6020A/Metals T - Cu65 - Recovery: 73 Limits: 75 - 125 True

6020A/Metals D - Cu65 - Recovery: 73 Limits: 75 - 125 True

PDS in control

Primary Approver: (b) (6) 2/27/17

Secondary Approver: (b) (6)

Sample List

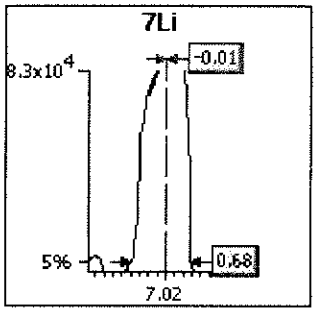
No	Label	Type	Weight	Rack	Row	Col	Height
1	Cal. Blk	Blank	1.000	0	1	1	145
2	Cal. Stn	Fully Quant Standard	1.000	0	1	2	145
3	ICV1	Unknown	1.000	0	1	3	145
4	CCV1	Unknown	1.000	0	1	2	145
5	ICB1	Unknown	1.000	0	1	1	145
6	CCB1	Unknown	1.000	0	1	1	145
7	LLICVW	Unknown	1.000	0	1	4	145
8	LLICVW	Unknown	1.000	0	1	4	145
9	LRSTD	Unknown	1.000	2	1	1	145
10	ICSA	Unknown	1.000	0	1	5	145
11	ICSAB	Unknown	1.000	0	1	6	145
12	KQ1701660-01	Unknown	1.000	1	1	1	145
13	K1701351-016	Unknown	1.000	1	1	4	145
14	K1701351-016L	Unknown	1.000	1	1	5	145
15	K1701351-016A	Unknown	1.000	1	1	6	145
16	KQ1701660-02	Unknown	1.000	1	1	2	145
17	KQ1701660-03	Unknown	1.000	1	1	3	145
18	K1701351-017	Unknown	1.000	1	1	7	145
19	K1701351-018	Unknown	1.000	1	1	8	145
20	KQ1701736-01	Unknown	1.000	1	1	9	145
21	KQ1701736-02	Unknown	1.000	1	1	10	145
22	CCV2	Unknown	1.000	0	1	2	145
23	CCB2	Unknown	1.000	0	1	1	145
24	LLCCVW1	Unknown	1.000	0	1	4	145
25	LLCCVW1	Unknown	1.000	0	1	4	145
26	K1701432-001	Unknown	1.000	1	1	11	145
27	K1701432-001D	Unknown	1.000	1	1	12	145
28	K1701432-001L	Unknown	1.000	1	2	1	145
29	K1701432-001A	Unknown	1.000	1	2	2	145
30	K1701432-001S	Unknown	1.000	1	2	3	145
31	K1701432-001SD	Unknown	1.000	1	2	4	145
32	K1701432-002	Unknown	1.000	1	2	5	145
33	K1701432-003	Unknown	1.000	1	2	6	145
34	K1701432-004	Unknown	1.000	1	2	7	145
35	K1701432-005	Unknown	1.000	1	2	8	130
36	CCV2	Unknown	1.000	0	1	2	145
37	CCB2	Unknown	1.000	0	1	1	145
38	K1701432-006	Unknown	1.000	1	2	9	130
39	K1701432-001 DISS	Unknown	1.000	1	2	10	145
40	K1701432-002 DISS	Unknown	1.000	1	2	11	145
41	K1701432-003 DISS	Unknown	1.000	1	2	12	145
42	K1701432-004 DISS	Unknown	1.000	1	3	1	145
43	K1701432-005 DISS	Unknown	1.000	1	3	2	145
44	K1701432-006 DISS	Unknown	1.000	1	3	3	145
45	CCV3	Unknown	1.000	0	1	2	145
46	CCB3	Unknown	1.000	0	1	1	145
47	LLCCVW2	Unknown	1.000	0	1	4	145

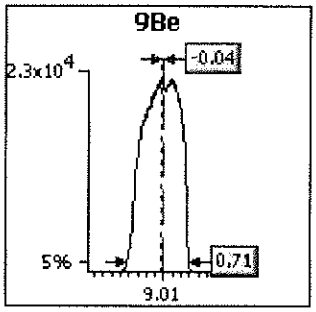
Performance Report

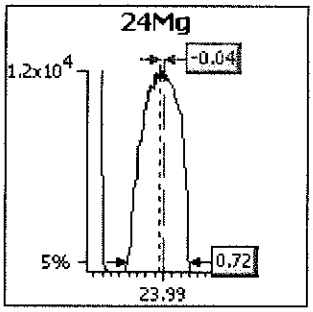
Sample details
Acquired at : 2/27/2017 5:30:46 AM
Report name : Kelso Performance Report 3 [2/13/2017 6:09:58 AM]

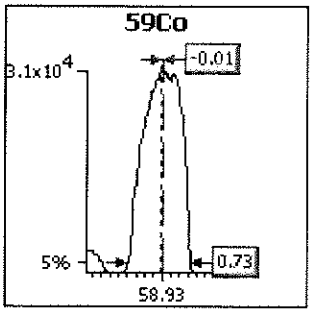
Mass Calibration verification

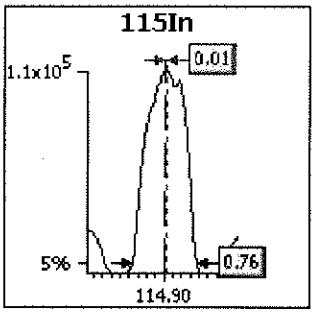
Acquisition parameters
Sweeps : 100
Dwell : 1.0 mSecs
Point spacing : 0.01 amu
Peak width measured at 5% of the peak maximum

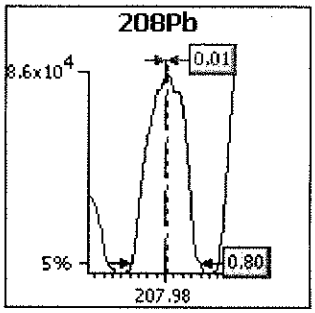


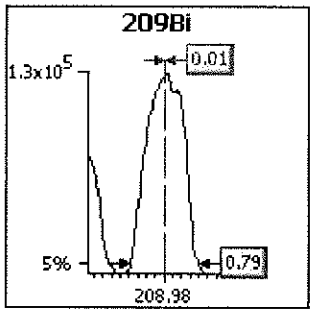


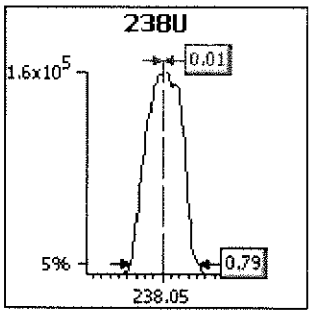












Analyte	Limits			Results	
	Max. width	Min. width	Max. error	Peak width	Peak error
7Li	0.90	0.60	0.10	0.68	-0.01
9Be	0.90	0.60	0.10	0.71	-0.04
24Mg	0.90	0.60	0.10	0.72	-0.04
59Co	0.90	0.60	0.10	0.73	-0.01
115In	0.90	0.60	0.10	0.76	0.01
208Pb	0.90	0.60	0.10	0.80	0.01
209Bi	0.90	0.60	0.10	0.79	0.01
238U	0.90	0.60	0.10	0.79	0.01

Sample details
Acquired at : 2/27/2017 5:30:46 AM
Report name : Kelso Performance Report 3 [2/13/2017 6:09:58 AM]

Tune conditions

Major	
Extraction	-110
Lens 1	3.8
Focus	18.4
D1	-40.8
Pole Bias	-0.0
Hexapole Bias	3.5
Nebuliser	0.78
Sampling Depth	34

Minor	
Lens 2	-20.4
Lens 3	-171.8
Forward power	1404
Horizontal	126
Vertical	363
D2	-155
DA	-35.3
Cool	13.0
Auxiliary	0.80

Global	
Standard resolution	105
High resolution	71
Analogue Detector	1800
PC Detector	3280

Add. Gases

Sensitivity and stability results

Acquisition parameters
Sweeps : 350

Run	Time	5Bkg	7Li	9Be	24Mg	59Co	115In	140Ce	156Ce O	208Pb
Dwell (mSecs)		10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Limits	%RSD	-	5.0%	5.0%	5.0%	5.0%	5.0%	-	-	5.0%
	Countrate	-	>1000	>1000	>1000	>1000	>1000	-	-	>1000
1	5:32:55 AM	0.000	99065.992	20445.250	11921.812	30743.898	111397.79	124927.38	2860.736	83204.458
2	5:33:59 AM	0.000	98707.553	20257.402	11720.694	30569.024	111647.98	125033.68	2847.875	83502.602
3	5:35:03 AM	0.000	98375.121	20262.556	11800.797	30563.577	111542.70	124990.23	2790.142	83215.415
4	5:36:07 AM	0.000	98957.679	20446.682	11695.804	30674.234	111131.13	123849.06	2779.568	82940.058
5	5:37:11 AM	0.000	99201.457	20225.044	11858.587	30468.974	111242.77	124257.43	2805.862	83140.160
x		0.000	98861.560	20327.387	11799.539	30603.941	111392.47	124611.56	2816.836	83200.538
σ		0.00	326.69	109.20	94.10	106.76	211.30	531.07	35.75	201.85
%RSD		0.000	0.330	0.537	0.797	0.349	0.190	0.426	1.269	0.243

Run	Time	209Bi	220Bkg	238U
Dwell (mSecs)		10.0	10.0	10.0
Limits	%RSD	5.0%	-	5.0%
	Countrate	>1000	-	>1000
1	5:32:55 AM	131671.56	0.000	160765.62
2	5:33:59 AM	131981.43	0.000	160894.44
3	5:35:03 AM	131212.42	0.000	160115.73
4	5:36:07 AM	131328.36	0.000	160121.25
5	5:37:11 AM	131079.38	0.000	160010.47
x		131454.63	0.000	160381.50
σ		367.42	0.00	414.33
%RSD		0.280	0.000	0.258

Ratio results

Run	Time	156Ce O/140Ce
Ratio limits		<0.0300
1	5:32:55 AM	0.023
2	5:33:59 AM	0.023
3	5:35:03 AM	0.022
4	5:36:07 AM	0.022
5	5:37:11 AM	0.023
x		0.0226
σ		0.00
%RSD		1.0432

Result : The performance report passed.

Dilution Corrected Concentrations

(b) (6) [redacted]

Cal. Blk 2/27/2017 5:50:06 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:50:06	97.0%	0.0011	99.0%	0.0076	-0.0188	-0.0010	-0.0058	-0.0001
2	05:50:42	102.1%	0.0012	100.0%	-0.0084	0.0184	0.0016	0.0049	0.0003
3	05:51:19	100.8%	-0.0023	101.0%	0.0008	0.0004	-0.0006	0.0009	-0.0003
x		100.0%	-0.0000	100.0%	-0.0000	-0.0000	-0.0000	-0.0000	0.0000
σ		2.7%	0.0020	1.0%	0.0080	0.0186	0.0014	0.0054	0.0003
%RSD		2.7	0.0000	1.0	0.0000	0.0000	0.0000	0.0000	0.0000

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:50:06	0.0095	-0.0037	99.0%	0.0191	-0.0774	0.2907	-0.0081	99.1%
2	05:50:42	0.0129	0.0055	100.4%	0.0313	0.0126	-0.3398	0.1364	100.6%
3	05:51:19	-0.0224	-0.0018	100.6%	-0.0504	0.0649	0.0491	-0.1283	100.3%
x		0.0000	-0.0000	100.0%	0.0000	-0.0000	-0.0000	-0.0000	100.0%
σ		0.0195	0.0048	0.9%	0.0441	0.0720	0.3181	0.1325	0.8%
%RSD		0.0000	0.0000	0.9	0.0000	0.0000	0.0000	0.0000	0.8

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:50:06	99.2%	-0.0004	-0.0002	98.9%	0.0002	0.0003	-0.0000
2	05:50:42	100.1%	-0.0005	0.0010	100.2%	0.0007	0.0006	0.0004
3	05:51:19	100.7%	0.0010	-0.0008	100.9%	-0.0009	-0.0009	-0.0004
x		100.0%	-0.0000	0.0000	100.0%	-0.0000	0.0000	-0.0000
σ		0.7%	0.0008	0.0009	1.0%	0.0008	0.0008	0.0004
%RSD		0.7	0.0000	0.0000	1.0	0.0000	0.0000	0.0000

Cal. Stn 2/27/2017 5:53:24 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:53:24	97.4%	25.5837	99.8%	24.7605	24.8278	25.0226	25.1997	25.3312
2	05:54:00	102.6%	24.5503	99.2%	25.1085	25.2240	25.1337	25.1051	24.7365
3	05:54:36	101.2%	24.8660	99.6%	25.1310	24.9482	24.8438	24.6952	24.9323
x		100.4%	25.0000	99.5%	25.0000	25.0000	25.0000	25.0000	25.0000
σ		2.7%	0.5296	0.3%	0.2077	0.2031	0.1463	0.2682	0.3031
%RSD		2.7	2.1183	0.3	0.8309	0.8125	0.5851	1.0728	1.2123

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:53:24	25.4860	25.0748	98.2%	24.9313	24.9030	24.8220	24.5900	99.1%
2	05:54:00	25.0989	24.9494	98.4%	25.1756	25.7005	25.2975	25.1994	99.3%
3	05:54:36	24.4151	24.9758	99.5%	24.8931	24.3965	24.8805	25.2107	99.4%
x		25.0000	25.0000	98.7%	25.0000	25.0000	25.0000	25.0000	99.3%
σ		0.5422	0.0661	0.7%	0.1533	0.6574	0.2593	0.3551	0.2%
%RSD		2.1689	0.2644	0.7	0.6131	2.6295	1.0371	1.4205	0.2

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:53:24	99.9%	24.8984	24.9170	98.4%	25.0274	25.1974	25.1272
2	05:54:00	100.3%	24.9619	24.9096	99.9%	25.0573	24.8930	24.9713
3	05:54:36	100.9%	25.1398	25.1733	100.6%	24.9153	24.9096	24.9015
x		100.4%	25.0000	25.0000	99.6%	25.0000	25.0000	25.0000
σ		0.5%	0.1251	0.1502	1.1%	0.0749	0.1711	0.1156
%RSD		0.5	0.5005	0.6007	1.1	0.2995	0.6846	0.4623

ICV1 2/27/2017 5:57:10 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:57:10	101.4%	2.4714	98.7%	24.4505	24.8006	12.2235	11.7162	24.6305
2	05:57:47	103.6%	2.3625	98.9%	24.6770	24.3180	12.2293	11.8668	25.0948
3	05:58:25	104.7%	2.4857	99.8%	24.4013	24.3686	12.2731	11.7271	25.3318
x		103.2%	2.4398	99.1%	24.5096	24.4957	12.2420	11.7700	25.0190
σ		1.7%	0.0674	0.6%	0.1471	0.2653	0.0271	0.0840	0.3568
%RSD		1.7	2.7607	0.6	0.6000	1.0829	0.2216	0.7138	1.4259

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:57:10	28.8345	27.2963	98.3%	24.8232	24.5958	25.1477	25.1271	99.0%
2	05:57:47	29.2315	27.4193	98.5%	24.7066	24.9859	26.4826	24.4716	98.9%
3	05:58:25	28.3973	27.2626	99.1%	24.9297	25.0618	25.7581	24.7247	99.2%
x		28.8211	27.3261	98.6%	24.8198	24.8812	25.7962	24.7745	99.0%
σ		0.4173	0.0825	0.4%	0.1116	0.2500	0.6683	0.3306	0.2%
%RSD		1.4478	0.3019	0.4	0.4497	1.0049	2.5906	1.3344	0.2

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	05:57:10	97.8%	25.6553	25.2415	99.6%	24.0446	24.9877	24.5365
2	05:57:47	98.8%	25.5523	25.1553	99.4%	24.4685	25.3478	25.0147
3	05:58:25	98.9%	25.6223	25.0742	100.3%	24.3793	25.1911	24.7397
x		98.5%	25.6100	25.1570	99.8%	24.2974	25.1756	24.7636
σ		0.6%	0.0526	0.0836	0.5%	0.2235	0.1805	0.2400
%RSD		0.6	0.2053	0.3325	0.5	0.9199	0.7171	0.9692

CCV1 2/27/2017 6:00:48 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:00:48	102.8%	24.9722	98.7%	25.1314	25.0685	24.9823	25.2542	25.0006
2	06:01:25	103.4%	24.3494	97.9%	25.4930	24.8263	24.7383	24.7432	25.0417
3	06:02:01	108.1%	24.0215	99.4%	25.1343	25.0832	24.6372	25.1136	25.1895
x		104.8%	24.4477	98.7%	25.2529	24.9927	24.7859	25.0370	25.0773
σ		2.9%	0.4829	0.7%	0.2079	0.1443	0.1774	0.2640	0.0993
%RSD		2.8	1.9754	0.7	0.8233	0.5773	0.7158	1.0543	0.3961

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:00:48	25.3855	24.9542	96.9%	24.6412	25.6880	25.9288	24.5716	97.2%
2	06:01:25	24.9797	24.6742	98.3%	25.1711	23.8933	25.1961	24.6782	97.2%
3	06:02:01	24.8117	24.8606	97.3%	25.1040	24.6517	24.7455	24.4389	98.9%
x		25.0590	24.8296	97.5%	24.9721	24.7444	25.2901	24.5629	97.7%
σ		0.2950	0.1425	0.7%	0.2885	0.9009	0.5972	0.1199	1.0%
%RSD		1.1772	0.5740	0.7	1.1552	3.6409	2.3614	0.4880	1.0

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:00:48	98.3%	24.9736	24.9159	97.7%	25.1368	25.0419	25.0873
2	06:01:25	98.2%	25.3463	25.1975	98.9%	25.0078	25.2555	25.0807
3	06:02:01	98.9%	25.1752	24.8998	99.5%	24.9301	24.8621	24.9273
x		98.5%	25.1650	25.0044	98.7%	25.0249	25.0532	25.0318
σ		0.4%	0.1866	0.1674	1.0%	0.1044	0.1970	0.0905
%RSD		0.4	0.7414	0.6696	1.0	0.4173	0.7861	0.3617

ICB1 2/27/2017 6:09:50 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:09:50	97.9%	0.0019	97.9%	-0.0072	0.0070	0.0322	0.0326	0.0014
2	06:10:26	91.7%	0.0020	96.9%	-0.0088	0.0319	0.0385	0.0384	0.0058
3	06:11:03	92.3%	-0.0071	97.7%	0.0014	0.0204	0.0337	0.0408	0.0205
x		93.9%	-0.0011	97.5%	-0.0049	0.0198	0.0348	0.0373	0.0092
σ		3.4%	0.0052	0.6%	0.0055	0.0124	0.0033	0.0042	0.0100
%RSD		3.6	479.4286	0.6	112.8634	62.8494	9.4404	11.2491	108.2368

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:09:50	0.0327	0.0190	96.9%	-0.0473	0.1067	-0.0944	-0.1105	98.3%
2	06:10:26	0.0004	-0.0140	98.3%	-0.0728	0.1428	0.0812	-0.1554	98.5%
3	06:11:03	0.0869	0.0146	98.4%	0.0086	-0.0108	-0.1390	-0.0699	99.6%
x		0.0400	0.0065	97.9%	-0.0372	0.0796	-0.0507	-0.1119	98.8%
σ		0.0437	0.0179	0.9%	0.0416	0.0803	0.1164	0.0428	0.7%
%RSD		109.2857	274.4523	0.9	111.9277	100.8999	229.5405	38.2387	0.7

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:09:50	97.3%	0.0165	0.0181	97.7%	0.0002	-0.0009	0.0007
2	06:10:26	98.5%	0.0234	0.0214	97.6%	0.0019	0.0011	0.0024
3	06:11:03	98.9%	0.0257	0.0276	98.7%	0.0023	0.0009	0.0030
x		98.3%	0.0219	0.0224	98.0%	0.0015	0.0004	0.0020
σ		0.8%	0.0047	0.0048	0.6%	0.0011	0.0011	0.0012
%RSD		0.9	21.7101	21.4262	0.6	74.1425	314.6680	57.3243

CCB1 2/27/2017 6:13:38 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:13:38	99.9%	-0.0031	100.2%	-0.0154	-0.0125	0.0363	0.0335	-0.0083
2	06:14:15	101.0%	-0.0004	99.4%	-0.0139	0.0074	0.0227	0.0302	0.0146
3	06:14:52	105.9%	-0.0046	101.0%	-0.0078	0.0073	0.0258	0.0320	0.0189
x		102.2%	-0.0027	100.2%	-0.0124	0.0007	0.0282	0.0319	0.0084
σ		3.2%	0.0021	0.8%	0.0040	0.0114	0.0071	0.0017	0.0147
%RSD		3.1	77.6735	0.8	32.2815	1595.8016	25.1894	5.1928	174.5742

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:13:38	0.0553	0.0410	98.7%	-0.0372	0.1516	0.1730	-0.0237	98.6%
2	06:14:15	0.0143	0.0025	99.2%	-0.0188	0.0619	0.0325	-0.0462	99.3%
3	06:14:52	-0.0173	-0.0080	100.4%	-0.0171	0.0884	0.0965	-0.0456	99.1%
x		0.0174	0.0119	99.4%	-0.0244	0.1006	0.1006	-0.0385	99.0%
σ		0.0364	0.0258	0.9%	0.0112	0.0461	0.0703	0.0128	0.4%
%RSD		208.5937	217.3433	0.9	45.8623	45.8011	69.8844	33.2322	0.4

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:13:38	97.3%	0.0108	0.0144	96.8%	0.0000	0.0006	0.0008
2	06:14:15	98.9%	0.0169	0.0154	97.9%	0.0010	0.0009	0.0015
3	06:14:52	98.8%	0.0181	0.0143	97.7%	0.0033	0.0008	0.0027
x		98.3%	0.0153	0.0147	97.5%	0.0014	0.0008	0.0017
σ		0.9%	0.0039	0.0006	0.6%	0.0017	0.0002	0.0009
%RSD		0.9	25.8130	4.0314	0.6	117.1741	25.8215	56.2752

See 2/27/17 Review

LLICVW 2/27/2017 6:17:13 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:17:13	104.0%	0.0125	101.9%	0.1832	0.2113	0.1273	0.1082	0.4652
2	06:17:49	109.4%	0.0147	100.8%	0.1838	0.1973	0.1053	0.1006	0.4348
3	06:18:25	107.9%	0.0142	102.4%	0.1751	0.1606	0.1124	0.0885	0.4577
x		107.1%	0.0138	101.7%	0.1807	0.1897	0.1150	0.0991	0.4525
σ		2.8%	0.0011	0.8%	0.0048	0.0262	0.0113	0.0099	0.0158
%RSD		2.6	8.2222	0.8	2.6676	13.7866	9.7871	10.0229	3.4971

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:17:13	0.5243	0.4153	98.9%	0.4640	1.1683	0.6146	1.0705	98.0%
2	06:17:49	0.4806	0.3805	99.7%	0.5144	1.0460	0.9719	0.9385	99.1%
3	06:18:25	0.4742	0.3817	100.7%	0.5042	1.0748	1.1085	1.0603	99.5%
x		0.4930	0.3925	99.8%	0.4942	1.0964	0.8983	1.0231	98.9%
σ		0.0273	0.0197	0.9%	0.0266	0.0639	0.2550	0.0734	0.8%
%RSD		5.5382	5.0250	0.9	5.3913	5.8294	28.3850	7.1740	0.8

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:17:13	97.4%	0.0523	0.0563	96.7%	0.0185	0.0195	0.0190
2	06:17:49	98.2%	0.0532	0.0606	98.0%	0.0185	0.0146	0.0164
3	06:18:25	98.4%	0.0560	0.0596	98.6%	0.0163	0.0177	0.0180
x		98.0%	0.0539	0.0588	97.8%	0.0178	0.0173	0.0178
σ		0.5%	0.0019	0.0022	1.0%	0.0012	0.0024	0.0013
%RSD		0.5	3.5769	3.7841	1.0	7.0057	14.1655	7.4048

LLICVW 2/27/2017 6:34:33 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:34:33	105.8%	0.0209	101.9%	0.1845	0.1512	0.1336	0.1011	0.4324
2	06:35:10	107.3%	0.0169	102.3%	0.1405	0.1483	0.1117	0.0900	0.4136
3	06:35:46	110.0%	0.0238	104.6%	0.1700	0.1352	0.1069	0.1114	0.4164
x		107.7%	0.0205	102.9%	0.1650	0.1449	0.1174	0.1009	0.4208
σ		2.1%	0.0034	1.4%	0.0224	0.0086	0.0142	0.0107	0.0101
%RSD		2.0	16.7242	1.4	13.5831	5.9036	12.1272	10.6032	2.4113

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:34:33	0.6118	0.4319	99.5%	0.4139	1.0186	1.1548	0.7655	98.7%
2	06:35:10	0.4685	0.3625	100.9%	0.4763	0.9327	0.8600	0.9659	100.3%
3	06:35:46	0.3721	0.3734	101.0%	0.4712	1.0900	0.8668	1.0480	100.3%
x		0.4841	0.3893	100.5%	0.4538	1.0138	0.9605	0.9265	99.8%
σ		0.1206	0.0373	0.9%	0.0347	0.0788	0.1683	0.1453	0.9%
%RSD		24.9061	9.5770	0.9	7.6353	7.7692	17.5197	15.6861	1.0

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:34:33	97.6%	0.0464	0.0493	97.2%	0.0141	0.0161	0.0163
2	06:35:10	99.5%	0.0451	0.0389	98.3%	0.0152	0.0138	0.0172
3	06:35:46	99.8%	0.0485	0.0442	98.5%	0.0147	0.0171	0.0163
x		99.0%	0.0467	0.0442	98.0%	0.0147	0.0157	0.0166
σ		1.2%	0.0017	0.0052	0.7%	0.0006	0.0017	0.0005
%RSD		1.2	3.6897	11.7814	0.7	4.0499	10.7429	3.0779

LRSTD 2/27/2017 6:38:09 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:38:09	108.7%	186.1888	99.0%	191.8683	192.5609	193.9112	192.1854	194.7963
2	06:38:45	111.0%	185.7226	98.6%	194.5830	192.4271	196.9449	194.2194	200.8516
3	06:39:22	104.3%	189.9682	97.0%	193.9656	194.0268	195.6794	195.8088	200.9412
x		108.0%	187.2932	98.2%	193.4723	193.0049	195.5118	194.0712	198.8630
σ		3.4%	2.3283	1.1%	1.4230	0.8875	1.5238	1.8162	3.5222
%RSD		3.2	1.2431	1.1	0.7355	0.4598	0.7794	0.9359	1.7711

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:38:09	191.8629	192.0706	97.6%	192.7929	194.3454	198.8253	190.8612	95.3%
2	06:38:45	198.2391	196.5606	96.7%	197.3647	198.3238	203.3144	195.8674	95.3%
3	06:39:22	199.2562	198.2545	96.6%	197.8675	199.1529	202.2330	197.2484	95.5%
x		196.4527	195.6286	97.0%	196.0084	197.2740	201.4576	194.6590	95.4%
σ		4.0073	3.1956	0.6%	2.7960	2.5699	2.3428	3.3607	0.1%
%RSD		2.0398	1.6335	0.6	1.4265	1.3027	1.1629	1.7265	0.1

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:38:09	103.8%	186.3808	183.4552	96.3%	200.0398	198.9802	204.6019
2	06:38:45	103.5%	191.1112	187.8992	96.7%	203.3472	203.6084	208.8033
3	06:39:22	104.0%	194.1685	190.8841	96.2%	204.1833	204.0817	209.2611
x		103.7%	190.5535	187.4128	96.4%	202.5234	202.2234	207.5554
σ		0.3%	3.9237	3.7382	0.3%	2.1912	2.8187	2.5681
%RSD		0.2	2.0591	1.9947	0.3	1.0819	1.3938	1.2373

ICSA 2/27/2017 6:45:05 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:45:05	96.7%	0.0155	95.0%	1.5210	1.4424	1.9156	1.0123	0.9848
2	06:45:42	100.4%	0.0321	96.2%	1.4982	1.4149	1.9070	1.0179	1.0190
3	06:46:18	103.6%	0.0207	99.2%	1.4701	1.4156	1.9156	1.0211	0.9742
x		100.2%	0.0228	96.8%	1.4965	1.4243	1.9127	1.0171	0.9927
σ		3.5%	0.0085	2.2%	0.0255	0.0157	0.0050	0.0045	0.0235
%RSD		3.4	37.1265	2.2	1.7052	1.1004	0.2611	0.4400	2.3629

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:45:05	3.9230	0.7382	93.4%	0.1563	1.6761	-0.6336	-0.0292	88.2%
2	06:45:42	4.1796	0.7385	95.1%	0.0474	1.7042	-0.5307	-0.2642	89.8%
3	06:46:18	3.7926	0.7040	97.5%	0.0933	1.9024	-0.7774	-0.0825	90.4%
x		3.9651	0.7269	95.4%	0.0990	1.7609	-0.6472	-0.1253	89.4%
σ		0.1969	0.0198	2.1%	0.0546	0.1233	0.1239	0.1232	1.2%
%RSD		4.9664	2.7250	2.2	55.1910	7.0034	19.1453	98.2913	1.3

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:45:05	91.2%	0.1076	0.1048	92.3%	0.1092	0.0966	0.1027
2	06:45:42	92.7%	0.1205	0.1206	93.5%	0.1191	0.1164	0.1178
3	06:46:18	93.3%	0.1151	0.1158	93.8%	0.1071	0.1105	0.1101
x		92.4%	0.1144	0.1137	93.2%	0.1118	0.1078	0.1102
σ		1.1%	0.0065	0.0081	0.8%	0.0064	0.0102	0.0076
%RSD		1.2	5.7004	7.1095	0.8	5.7294	9.4263	6.8529

ICSAB 2/27/2017 6:49:28 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:49:28	102.4%	0.0030	99.5%	48.1955	48.0103	47.5911	47.6924	23.6817
2	06:50:04	107.8%	-0.0039	100.8%	48.1150	48.2971	48.3671	48.1419	24.2338
3	06:50:40	106.7%	0.0110	102.4%	47.2767	47.6685	47.3058	47.1687	23.9308
x		105.6%	0.0034	100.9%	47.8624	47.9920	47.7547	47.6677	23.9488
σ		2.9%	0.0074	1.5%	0.5088	0.3147	0.5492	0.4871	0.2765
%RSD		2.7	221.8396	1.4	1.0631	0.6558	1.1501	1.0219	1.1546

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:49:28	26.1485	22.4396	97.6%	23.9607	26.2044	23.7091	23.9099	91.5%
2	06:50:04	26.7686	22.6039	98.6%	24.7827	25.7609	23.3496	23.7720	92.3%
3	06:50:40	25.1952	22.4774	100.9%	24.2089	24.8326	24.1563	23.7242	92.9%
x		26.0374	22.5070	99.0%	24.3175	25.5993	23.7383	23.8020	92.2%
σ		0.7926	0.0861	1.7%	0.4216	0.7000	0.4042	0.0964	0.7%
%RSD		3.0439	0.3824	1.7	1.7339	2.7345	1.7025	0.4052	0.7

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:49:28	95.2%	0.0594	0.0555	95.2%	0.0923	0.0943	0.0920
2	06:50:04	95.7%	0.0615	0.0644	96.9%	0.0985	0.0934	0.0923
3	06:50:40	96.1%	0.0705	0.0677	96.4%	0.1037	0.0946	0.0964
x		95.7%	0.0638	0.0625	96.2%	0.0982	0.0941	0.0935
σ		0.4%	0.0059	0.0063	0.8%	0.0057	0.0006	0.0025
%RSD		0.4	9.2490	10.0928	0.9	5.8260	0.6550	2.6259

KQ1701660-01 2/27/2017 7:03:12 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:03:12	99.7%	-0.0040	104.9%	0.0274	0.0490	0.0505	0.0441	0.0304
2	07:03:48	101.6%	-0.0042	106.6%	0.0223	0.0201	0.0452	0.0466	0.0096
3	07:04:25	100.6%	-0.0005	105.9%	0.0508	0.0381	0.0533	0.0459	0.0227
x		100.6%	-0.0029	105.8%	0.0335	0.0357	0.0497	0.0456	0.0209
σ		1.0%	0.0021	0.9%	0.0152	0.0146	0.0041	0.0013	0.0105
%RSD		1.0	73.0967	0.8	45.3090	40.8878	8.2625	2.8090	50.2276

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:03:12	0.0437	0.0091	106.5%	-0.0038	-0.0029	0.3129	-0.1787	102.4%
2	07:03:48	0.0606	0.0126	107.7%	0.0266	0.0414	0.7220	-0.0904	103.8%
3	07:04:25	0.0319	0.0366	108.4%	-0.0057	0.1269	0.6530	-0.0040	104.6%
x		0.0454	0.0194	107.5%	0.0057	0.0551	0.5626	-0.0910	103.6%
σ		0.0144	0.0150	1.0%	0.0182	0.0660	0.2190	0.0873	1.1%
%RSD		31.7536	77.1248	0.9	318.6354	119.7327	38.9262	95.9147	1.1

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:03:12	102.0%	0.0024	0.0057	101.1%	0.0002	-0.0002	0.0009
2	07:03:48	103.1%	0.0059	0.0083	102.3%	-0.0014	-0.0004	0.0003
3	07:04:25	104.9%	0.0080	0.0039	103.3%	0.0001	-0.0004	0.0007
x		103.3%	0.0054	0.0060	102.3%	-0.0004	-0.0003	0.0007
σ		1.5%	0.0028	0.0022	1.1%	0.0009	0.0001	0.0003
%RSD		1.4	52.2600	37.1355	1.0	248.5612	35.8310	46.6804

K1701351-016 2/27/2017 7:06:26 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:06:26	89.4%	0.0075	100.2%	0.0926	0.0602	0.2730	0.2975	0.9785
2	07:07:02	91.4%	-0.0011	101.3%	0.1048	0.0713	0.2912	0.3218	0.9696
3	07:07:39	91.1%	0.0061	100.7%	0.0678	0.0995	0.2820	0.2967	0.9587
x		90.7%	0.0042	100.7%	0.0884	0.0770	0.2821	0.3053	0.9689
σ		1.1%	0.0046	0.5%	0.0188	0.0203	0.0091	0.0143	0.0099
%RSD		1.2	110.0498	0.5	21.2941	26.3340	3.2144	4.6820	1.0225

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:06:26	1.1589	0.9059	105.0%	0.0911	5.1444	0.9292	0.4761	102.4%
2	07:07:02	1.0189	0.9135	104.8%	0.1506	4.5979	0.7773	0.1995	101.5%
3	07:07:39	1.0695	0.9393	105.7%	0.0154	4.8983	0.6833	0.2634	102.6%
x		1.0824	0.9196	105.2%	0.0857	4.8802	0.7966	0.3130	102.2%
σ		0.0709	0.0175	0.5%	0.0677	0.2737	0.1241	0.1448	0.6%
%RSD		6.5494	1.9046	0.4	79.0696	5.6085	15.5762	46.2805	0.6

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:06:26	102.3%	0.3655	0.3438	102.6%	0.2012	0.1985	0.1990
2	07:07:02	102.8%	0.3608	0.3525	103.8%	0.1994	0.1886	0.1931
3	07:07:39	102.8%	0.3393	0.3569	104.0%	0.1978	0.1902	0.1963
x		102.7%	0.3552	0.3511	103.5%	0.1995	0.1924	0.1961
σ		0.3%	0.0139	0.0067	0.8%	0.0017	0.0053	0.0029
%RSD		0.3	3.9224	1.9019	0.8	0.8421	2.7611	1.4876

K1701351-016L 2/27/2017 7:10:06 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:10:06	100.2%	-0.0032	104.2%	0.0110	-0.0062	0.1120	0.0994	0.3037
2	07:10:43	102.5%	0.0002	105.6%	0.0131	0.0007	0.0994	0.1045	0.3166
3	07:11:20	102.3%	-0.0052	105.2%	0.0188	-0.0023	0.1014	0.1084	0.3248
x		101.6%	-0.0027	105.0%	0.0143	-0.0026	0.1043	0.1041	0.3150
σ		1.3%	0.0027	0.7%	0.0040	0.0035	0.0068	0.0045	0.0106
%RSD		1.2	100.1155	0.7	28.2756	132.9115	6.5201	4.3131	3.3786

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:10:06	0.3645	0.2476	106.7%	-0.0482	1.3496	0.4053	0.0673	102.0%
2	07:10:43	0.2949	0.3355	107.6%	-0.0724	1.1062	0.4671	-0.2780	102.3%
3	07:11:20	0.3663	0.3665	107.3%	0.0067	1.0680	0.6379	-0.1127	102.6%
x		0.3419	0.3165	107.2%	-0.0380	1.1746	0.5034	-0.1078	102.3%
σ		0.0407	0.0617	0.4%	0.0405	0.1527	0.1205	0.1727	0.3%
%RSD		11.9029	19.4892	0.4	106.8143	13.0033	23.9377	160.2497	0.3

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:10:06	100.9%	0.0639	0.0568	101.5%	0.0470	0.0465	0.0466
2	07:10:43	102.1%	0.0647	0.0630	102.2%	0.0464	0.0488	0.0475
3	07:11:20	102.4%	0.0672	0.0666	103.2%	0.0461	0.0472	0.0474
x		101.8%	0.0653	0.0621	102.3%	0.0465	0.0475	0.0471
σ		0.8%	0.0017	0.0049	0.9%	0.0004	0.0012	0.0005
%RSD		0.8	2.5979	7.9633	0.8	0.9160	2.4884	1.0715

K1701351-016A 2/27/2017 7:13:21 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:13:21	96.1%	19.5623	101.9%	19.5450	19.0900	19.5865	19.5103	21.2649
2	07:13:58	94.3%	19.2361	101.8%	19.1198	19.0264	19.3230	19.1511	20.8974
3	07:14:34	91.6%	19.7719	98.8%	19.1364	19.6005	19.4384	19.4891	21.1687
x		94.0%	19.5235	100.8%	19.2671	19.2390	19.4493	19.3835	21.1103
σ		2.2%	0.2700	1.7%	0.2409	0.3147	0.1321	0.2015	0.1906
%RSD		2.4	1.3830	1.7	1.2501	1.6357	0.6791	1.0397	0.9027

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:13:21	21.0658	20.8075	104.6%	20.2186	25.2293	20.3515	19.8294	101.0%
2	07:13:58	21.1328	20.7787	105.5%	20.1883	24.6689	20.7765	19.5556	100.4%
3	07:14:34	20.7209	20.8853	103.7%	20.3195	24.1229	20.6572	19.8643	100.0%
x		20.9731	20.8238	104.6%	20.2421	24.6737	20.5951	19.7497	100.5%
σ		0.2210	0.0551	0.9%	0.0687	0.5532	0.2192	0.1691	0.5%
%RSD		1.0538	0.2646	0.9	0.3393	2.2422	1.0643	0.8561	0.5

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:13:21	102.2%	20.9185	20.7590	102.9%	20.3181	20.3424	20.3027
2	07:13:58	102.5%	21.0851	20.9117	103.6%	20.2837	20.3243	20.2906
3	07:14:34	102.3%	21.3862	21.2408	102.9%	20.2244	20.3844	20.3235
x		102.4%	21.1299	20.9705	103.1%	20.2754	20.3504	20.3056
σ		0.2%	0.2370	0.2462	0.4%	0.0474	0.0308	0.0166
%RSD		0.2	1.1218	1.1741	0.4	0.2338	0.1516	0.0818

KQ1701660-02 2/27/2017 7:16:34 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:16:34	92.7%	2.4578	101.1%	23.5892	23.3112	11.7274	10.1487	25.9341
2	07:17:10	94.6%	2.3583	100.6%	23.5663	23.2839	11.6896	10.2452	25.7467
3	07:17:47	91.9%	2.5236	99.1%	23.5202	23.2928	11.8878	10.0871	26.2628
x		93.0%	2.4466	100.3%	23.5586	23.2960	11.7683	10.1603	25.9812
σ		1.4%	0.0832	1.1%	0.0352	0.0139	0.1052	0.0797	0.2612
%RSD		1.5	3.4017	1.1	0.1493	0.0597	0.8941	0.7843	1.0054

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:16:34	29.5942	28.1382	103.4%	48.8331	52.8334	50.6276	47.5867	99.5%
2	07:17:10	29.8365	28.0884	104.6%	48.5760	53.3947	49.4738	48.0670	99.8%
3	07:17:47	29.6283	28.2369	103.7%	48.9724	52.4545	50.3174	47.9902	99.7%
x		29.6863	28.1545	103.9%	48.7938	52.8942	50.1396	47.8813	99.7%
σ		0.1311	0.0756	0.6%	0.2011	0.4731	0.5971	0.2580	0.2%
%RSD		0.4417	0.2684	0.6	0.4121	0.8944	1.1909	0.5389	0.2

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:16:34	99.9%	53.0700	52.1443	102.1%	48.6268	50.3329	49.6826
2	07:17:10	100.1%	53.3654	52.5910	103.0%	48.9145	50.5816	49.6986
3	07:17:47	100.5%	53.3811	52.5899	102.5%	48.8255	50.6985	49.8310
x		100.2%	53.2722	52.4417	102.5%	48.7889	50.5376	49.7374
σ		0.3%	0.1752	0.2576	0.4%	0.1473	0.1867	0.0815
%RSD		0.3	0.3290	0.4912	0.4	0.3019	0.3695	0.1638

KQ1701660-03 2/27/2017 7:20:29 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:20:29	98.4%	2.4372	101.0%	24.0841	23.8266	12.2646	10.5183	27.1384
2	07:21:05	97.9%	2.3874	99.2%	24.2026	24.0711	12.0392	10.4314	26.6874
3	07:21:42	96.2%	2.5011	100.2%	24.1041	23.5063	12.1963	10.4177	26.8894
x		97.5%	2.4419	100.1%	24.1303	23.8013	12.1667	10.4558	26.9051
σ		1.2%	0.0570	0.9%	0.0634	0.2832	0.1156	0.0546	0.2259
%RSD		1.2	2.3342	0.9	0.2627	1.1900	0.9499	0.5219	0.8397

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:20:29	29.8504	28.9617	103.0%	49.3724	54.7328	51.3761	48.1043	99.8%
2	07:21:05	30.4464	28.8134	104.1%	49.1661	55.8901	50.7127	48.2020	99.7%
3	07:21:42	30.0341	28.9736	103.5%	49.7387	55.6986	50.0389	49.5477	99.3%
x		30.1103	28.9162	103.5%	49.4257	55.4405	50.7092	48.6180	99.6%
σ		0.3052	0.0893	0.5%	0.2900	0.6203	0.6686	0.8066	0.2%
%RSD		1.0138	0.3087	0.5	0.5867	1.1188	1.3185	1.6591	0.2

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:20:29	99.5%	52.9505	52.0230	102.0%	49.5160	51.4113	50.5898
2	07:21:05	99.7%	53.0873	52.4531	103.2%	49.7598	51.6370	50.7307
3	07:21:42	99.2%	53.5121	52.7462	102.6%	49.5752	51.7241	50.8069
x		99.5%	53.1833	52.4074	102.6%	49.6170	51.5908	50.7091
σ		0.2%	0.2929	0.3638	0.6%	0.1271	0.1614	0.1101
%RSD		0.2	0.5507	0.6941	0.6	0.2563	0.3129	0.2172

K1701351-017 2/27/2017 7:25:01 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:25:01	95.6%	-0.0006	99.1%	0.0982	-0.0061	0.2806	0.2908	0.9645
2	07:25:38	99.7%	0.0035	98.6%	0.0955	0.0118	0.2732	0.2647	0.9995
3	07:26:14	96.5%	-0.0008	98.9%	0.0979	0.0482	0.2854	0.2811	1.0519
x		97.3%	0.0007	98.9%	0.0972	0.0180	0.2797	0.2789	1.0053
σ		2.1%	0.0024	0.3%	0.0014	0.0277	0.0061	0.0132	0.0440
%RSD		2.2	352.7952	0.3	1.4889	153.8459	2.1886	4.7273	4.3774

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:25:01	1.1379	0.9791	101.5%	-0.0545	5.4140	0.8394	0.2199	97.8%
2	07:25:38	1.0651	0.9946	102.5%	0.2185	4.5965	0.4354	0.2937	98.3%
3	07:26:14	0.9920	0.9237	102.9%	0.0160	5.1066	0.3963	0.3233	98.1%
x		1.0650	0.9658	102.3%	0.0600	5.0390	0.5570	0.2790	98.1%
σ		0.0730	0.0373	0.7%	0.1417	0.4129	0.2453	0.0533	0.3%
%RSD		6.8525	3.8580	0.7	236.2213	8.1944	44.0445	19.0930	0.3

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:25:01	97.7%	0.3483	0.3363	101.1%	1.1629	1.0526	1.0929
2	07:25:38	98.9%	0.3647	0.3596	102.5%	1.1469	1.0877	1.0908
3	07:26:14	98.5%	0.3380	0.3565	102.1%	1.1426	1.0708	1.0960
x		98.4%	0.3503	0.3508	101.9%	1.1508	1.0704	1.0932
σ		0.6%	0.0135	0.0127	0.7%	0.0107	0.0176	0.0026
%RSD		0.6	3.8422	3.6099	0.7	0.9298	1.6432	0.2355

K1701351-018 2/27/2017 7:28:43 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:28:43	95.9%	-0.0017	99.9%	0.1245	0.0755	0.2626	0.2286	1.2897
2	07:29:20	92.2%	0.0029	98.1%	0.1029	0.0381	0.2593	0.2295	1.3116
3	07:29:57	90.6%	0.0022	97.6%	0.1159	0.0854	0.2631	0.2410	1.2915
x		92.9%	0.0011	98.5%	0.1144	0.0663	0.2617	0.2330	1.2976
σ		2.8%	0.0024	1.2%	0.0109	0.0250	0.0021	0.0069	0.0122
%RSD		3.0	218.1406	1.2	9.4962	37.6589	0.7901	2.9648	0.9381

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:28:43	1.2973	1.2625	102.2%	0.5114	5.1371	0.7979	0.6409	98.2%
2	07:29:20	1.2804	1.2471	102.7%	0.4610	5.1679	0.9685	0.5642	98.0%
3	07:29:57	1.4282	1.2431	103.2%	0.4465	5.2601	1.0255	0.6204	99.1%
x		1.3353	1.2509	102.7%	0.4730	5.1884	0.9306	0.6085	98.4%
σ		0.0809	0.0102	0.5%	0.0341	0.0640	0.1184	0.0397	0.6%
%RSD		6.0595	0.8193	0.5	7.2068	1.2337	12.7268	6.5236	0.6

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:28:43	98.7%	0.8077	0.7832	101.6%	0.7905	0.7506	0.7724
2	07:29:20	99.4%	0.7952	0.7974	101.6%	0.8083	0.7652	0.7839
3	07:29:57	99.2%	0.8267	0.7943	101.9%	0.7909	0.8033	0.7822
x		99.1%	0.8099	0.7916	101.7%	0.7966	0.7730	0.7795
σ		0.4%	0.0159	0.0075	0.1%	0.0101	0.0272	0.0062
%RSD		0.4	1.9628	0.9456	0.1	1.2717	3.5176	0.7984

KQ1701736-01 2/27/2017 7:32:29 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:32:29	108.5%	-0.0014	105.0%	0.0507	0.0030	0.0904	0.0905	0.5715
2	07:33:06	108.7%	-0.0040	106.0%	0.0477	0.0063	0.0666	0.0911	0.5516
3	07:33:42	108.2%	0.0029	107.5%	0.0714	0.0012	0.0845	0.0922	0.5598
x		108.5%	-0.0009	106.2%	0.0566	0.0035	0.0805	0.0913	0.5610
σ		0.3%	0.0035	1.3%	0.0129	0.0026	0.0124	0.0009	0.0100
%RSD		0.3	397.1172	1.2	22.8173	74.9392	15.3764	0.9620	1.7827

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:32:29	0.5927	0.4809	105.4%	0.0047	0.2400	0.1160	-0.1090	99.1%
2	07:33:06	0.5533	0.5456	106.4%	-0.0007	0.1507	0.3452	-0.1289	101.1%
3	07:33:42	0.6153	0.5334	106.8%	0.0156	0.1174	0.6728	-0.1279	101.9%
x		0.5871	0.5200	106.2%	0.0065	0.1694	0.3780	-0.1219	100.7%
σ		0.0314	0.0344	0.7%	0.0083	0.0634	0.2798	0.0112	1.4%
%RSD		5.3477	6.6128	0.7	126.8624	37.4234	74.0335	9.1904	1.4

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:32:29	97.8%	0.0049	0.0056	99.2%	0.0247	0.0238	0.0245
2	07:33:06	100.7%	0.0057	0.0057	100.7%	0.0216	0.0217	0.0229
3	07:33:42	100.0%	0.0070	0.0066	101.1%	0.0241	0.0208	0.0227
x		99.5%	0.0059	0.0060	100.4%	0.0235	0.0221	0.0234
σ		1.5%	0.0011	0.0006	1.0%	0.0017	0.0015	0.0010
%RSD		1.5	18.1709	9.3995	1.0	7.0430	6.8242	4.2001

KQ1701736-02 2/27/2017 7:37:15 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:37:15	105.4%	2.4676	103.5%	23.7119	23.9051	12.1758	10.5925	25.4234
2	07:37:52	106.1%	2.4722	105.1%	24.0030	23.6567	12.0158	10.3988	25.8564
3	07:38:29	107.6%	2.4202	107.7%	23.7988	23.6927	11.8429	10.6290	25.6681
x		106.4%	2.4534	105.4%	23.8379	23.7515	12.0115	10.5401	25.6493
σ		1.1%	0.0288	2.1%	0.1494	0.1343	0.1665	0.1238	0.2171
%RSD		1.1	1.1731	2.0	0.6269	0.5653	1.3860	1.1742	0.8465

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:37:15	29.0992	27.7974	105.1%	49.0796	49.0078	50.0482	47.3315	99.9%
2	07:37:52	28.9611	27.7171	107.3%	49.5327	49.3995	49.7294	48.2605	101.2%
3	07:38:29	29.2676	27.9404	107.9%	49.2079	47.3168	49.4637	48.2635	102.0%
x		29.1093	27.8183	106.8%	49.2734	48.5747	49.7471	47.9518	101.0%
σ		0.1535	0.1131	1.5%	0.2335	1.1068	0.2926	0.5373	1.1%
%RSD		0.5273	0.4066	1.4	0.4739	2.2786	0.5882	1.1204	1.1

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:37:15	99.3%	50.3736	49.5652	99.9%	48.7540	50.7844	49.9471
2	07:37:52	101.5%	50.5197	49.7056	101.9%	48.7691	50.5315	49.8688
3	07:38:29	102.4%	50.1423	49.6535	102.1%	48.5746	50.5767	49.7824
x		101.1%	50.3452	49.6414	101.3%	48.6992	50.6309	49.8661
σ		1.6%	0.1903	0.0710	1.2%	0.1082	0.1349	0.0824
%RSD		1.6	0.3779	0.1430	1.2	0.2222	0.2664	0.1651

CCV2 2/27/2017 7:42:15 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:42:15	104.0%	24.5930	103.1%	24.5468	24.5433	24.4693	24.5065	25.3293
2	07:42:51	104.2%	24.3148	104.6%	24.4412	24.5087	24.5724	24.3565	25.2538
3	07:43:28	103.0%	24.6448	105.3%	24.5920	24.6277	24.3659	23.9864	25.4415
x		103.8%	24.5175	104.3%	24.5267	24.5599	24.4692	24.2831	25.3415
σ		0.7%	0.1775	1.1%	0.0774	0.0612	0.1032	0.2677	0.0944
%RSD		0.6	0.7239	1.1	0.3157	0.2493	0.4219	1.1024	0.3726

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:42:15	25.8374	24.6987	104.7%	25.1936	24.5548	24.7461	24.6324	99.9%
2	07:42:51	24.8395	25.1931	105.9%	25.0787	24.3358	25.4302	24.7100	100.3%
3	07:43:28	25.9880	25.1081	106.1%	25.0158	25.3853	25.5478	24.3143	101.4%
x		25.5550	24.9999	105.6%	25.0960	24.7586	25.2414	24.5522	100.5%
σ		0.6242	0.2643	0.8%	0.0902	0.5537	0.4329	0.2097	0.8%
%RSD		2.4426	1.0574	0.7	0.3593	2.2363	1.7150	0.8540	0.8

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:42:15	101.2%	26.0695	26.2991	100.7%	25.4418	25.4476	25.3453
2	07:42:51	102.0%	26.4716	26.3356	101.5%	25.6301	25.5525	25.4378
3	07:43:28	103.4%	26.3541	26.2119	102.7%	25.1119	25.1965	25.1451
x		102.2%	26.2984	26.2822	101.6%	25.3946	25.3988	25.3094
σ		1.2%	0.2067	0.0635	1.0%	0.2623	0.1830	0.1496
%RSD		1.1	0.7861	0.2417	1.0	1.0330	0.7203	0.5911

CCB2 2/27/2017 7:51:57 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:51:57	92.6%	0.0018	100.0%	-0.0108	0.0104	0.0695	0.0571	0.0179
2	07:52:33	94.6%	-0.0005	100.1%	-0.0034	-0.0093	0.0815	0.0775	0.0068
3	07:53:10	95.9%	0.0022	103.1%	-0.0014	-0.0274	0.0729	0.0652	0.0178
x		94.4%	0.0011	101.1%	-0.0052	-0.0088	0.0746	0.0666	0.0142
σ		1.7%	0.0014	1.8%	0.0049	0.0189	0.0062	0.0103	0.0064
%RSD		1.8	126.7551	1.8	94.6614	215.9563	8.2992	15.4191	44.9636

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:51:57	0.0268	-0.0159	101.3%	0.0451	0.0208	0.6144	-0.0074	98.9%
2	07:52:33	0.0292	0.0237	103.5%	-0.0064	0.0724	0.0861	-0.1842	100.7%
3	07:53:10	0.0704	-0.0016	104.7%	0.0485	0.0157	0.9186	0.0087	100.8%
x		0.0421	0.0021	103.2%	0.0290	0.0363	0.5397	-0.0610	100.2%
σ		0.0245	0.0201	1.7%	0.0308	0.0314	0.4213	0.1070	1.1%
%RSD		58.1949	970.8254	1.7	105.9318	86.4916	78.0544	175.5579	1.1

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:51:57	98.1%	0.0202	0.0153	98.7%	0.0041	0.0024	0.0037
2	07:52:33	99.7%	0.0295	0.0294	100.6%	0.0087	0.0079	0.0089
3	07:53:10	100.7%	0.0264	0.0252	101.0%	0.0081	0.0087	0.0085
x		99.5%	0.0254	0.0233	100.1%	0.0070	0.0063	0.0070
σ		1.3%	0.0047	0.0073	1.3%	0.0025	0.0035	0.0029
%RSD		1.3	18.7058	31.1403	1.3	35.7120	54.7059	40.6757

LLCCVW1 2/27/2017 7:55:53 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:55:53	95.3%	0.0091	101.6%	0.1952	0.1378	0.1434	0.1151	0.4014
2	07:56:30	96.8%	0.0258	102.0%	0.1291	0.1329	0.1645	0.1249	0.3878
3	07:57:07	93.4%	0.0311	102.7%	0.1482	0.1522	0.1416	0.1438	0.4077
x		95.2%	0.0220	102.1%	0.1575	0.1410	0.1498	0.1279	0.3989
σ		1.7%	0.0115	0.6%	0.0340	0.0101	0.0128	0.0146	0.0102
%RSD		1.8	52.3806	0.6	21.6111	7.1341	8.5252	11.4095	2.5458

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:55:53	0.3743	0.3640	103.4%	0.3966	0.9803	1.0991	0.6119	99.1%
2	07:56:30	0.4030	0.4313	104.6%	0.3890	1.1364	1.7665	0.7365	100.9%
3	07:57:07	0.4281	0.3569	105.4%	0.4040	1.0510	1.4599	0.6060	102.4%
x		0.4018	0.3841	104.5%	0.3965	1.0559	1.4418	0.6515	100.8%
σ		0.0269	0.0410	1.0%	0.0075	0.0782	0.3341	0.0737	1.7%
%RSD		6.7000	10.6876	0.9	1.8839	7.4024	23.1719	11.3080	1.7

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:55:53	99.8%	0.0591	0.0584	99.3%	0.0197	0.0151	0.0174
2	07:56:30	100.7%	0.0596	0.0618	101.2%	0.0202	0.0172	0.0194
3	07:57:07	101.8%	0.0630	0.0623	101.1%	0.0206	0.0160	0.0184
x		100.8%	0.0606	0.0608	100.6%	0.0202	0.0161	0.0184
σ		1.0%	0.0021	0.0021	1.1%	0.0005	0.0010	0.0010
%RSD		1.0	3.5232	3.4353	1.0	2.3548	6.3850	5.3941

2/27/17

LLCCVW1 2/27/2017 7:59:38 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:59:38	96.4%	0.0231	103.8%	0.1697	0.1647	0.1509	0.1297	0.4283
2	08:00:14	97.1%	0.0333	103.6%	0.1424	0.1532	0.1681	0.1324	0.3949
3	08:00:51	99.2%	0.0342	104.2%	0.1569	0.1466	0.1447	0.1149	0.4157
x		97.6%	0.0302	103.9%	0.1563	0.1548	0.1546	0.1256	0.4130
σ		1.5%	0.0062	0.3%	0.0137	0.0092	0.0121	0.0094	0.0169
%RSD		1.5	20.4083	0.3	8.7428	5.9296	7.8329	7.4994	4.0891

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:59:38	0.4278	0.3620	105.2%	0.4946	0.9532	1.3108	0.8788	101.5%
2	08:00:14	0.4730	0.3976	106.9%	0.4665	0.9318	1.4595	0.7155	102.8%
3	08:00:51	0.4147	0.3968	107.1%	0.4709	0.9490	1.7560	0.7720	102.8%
x		0.4385	0.3855	106.4%	0.4774	0.9447	1.5088	0.7888	102.4%
σ		0.0306	0.0203	1.0%	0.0151	0.0113	0.2266	0.0830	0.8%
%RSD		6.9682	5.2646	1.0	3.1644	1.1972	15.0192	10.5181	0.8

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:59:38	101.0%	0.0592	0.0513	100.0%	0.0194	0.0146	0.0175
2	08:00:14	102.9%	0.0566	0.0683	101.9%	0.0161	0.0195	0.0189
3	08:00:51	102.6%	0.0601	0.0579	101.9%	0.0176	0.0211	0.0196
x		102.2%	0.0587	0.0592	101.3%	0.0177	0.0184	0.0187
σ		1.0%	0.0018	0.0086	1.1%	0.0017	0.0034	0.0011
%RSD		1.0	3.0924	14.4640	1.1	9.4467	18.5226	5.7313

K1701432-001 2/27/2017 8:06:49 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:06:49	87.6%	0.0131	103.1%	3.6012	9.8547	19.3591	8.8504	44.6460
2	08:07:25	89.6%	0.0196	107.5%	3.5491	10.6119	19.0622	8.8089	44.9035
3	08:08:02	93.1%	0.0016	109.7%	3.5388	11.3277	19.0063	8.8704	45.1377
x		90.1%	0.0114	106.8%	3.5630	10.5981	19.1425	8.8432	44.8957
σ		2.8%	0.0091	3.3%	0.0334	0.7366	0.1896	0.0314	0.2460
%RSD		3.1	79.8474	3.1	0.9386	6.9503	0.9905	0.3551	0.5479

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:06:49	42.4361	43.1315	98.3%	1.3110	3.2884	0.4470	3.6177	89.5%
2	08:07:25	41.2427	42.2520	101.5%	1.3941	3.2337	0.5230	3.8740	91.0%
3	08:08:02	41.5191	42.6112	103.6%	1.2402	3.2881	0.5337	3.4137	92.4%
x		41.7326	42.6649	101.1%	1.3151	3.2701	0.5012	3.6351	91.0%
σ		0.6247	0.4422	2.7%	0.0770	0.0315	0.0473	0.2306	1.5%
%RSD		1.4968	1.0364	2.7	5.8568	0.9638	9.4284	6.3450	1.6

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:06:49	93.0%	0.2937	0.2814	97.5%	2.6754	2.6348	2.6494
2	08:07:25	94.6%	0.3033	0.3022	99.4%	2.6675	2.6420	2.6346
3	08:08:02	96.9%	0.2922	0.3003	100.3%	2.6968	2.6158	2.6455
x		94.9%	0.2964	0.2946	99.1%	2.6799	2.6309	2.6431
σ		2.0%	0.0060	0.0115	1.4%	0.0152	0.0135	0.0077
%RSD		2.1	2.0371	3.9075	1.4	0.5658	0.5141	0.2898

K1701432-001D 2/27/2017 8:12:21 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:12:21	92.6%	0.0116	107.9%	3.7678	11.6476	19.3728	9.2467	45.8573
2	08:12:58	94.4%	0.0149	112.1%	3.6413	11.9703	19.1932	9.0146	45.2531
3	08:13:34	96.1%	0.0058	113.2%	3.7366	12.0714	19.4810	9.0817	45.9298
x		94.4%	0.0108	111.1%	3.7152	11.8964	19.3490	9.1144	45.6801
σ		1.8%	0.0046	2.8%	0.0659	0.2213	0.1454	0.1194	0.3715
%RSD		1.9	42.6909	2.5	1.7730	1.8606	0.7512	1.3105	0.8134

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:12:21	42.4061	43.2895	102.3%	1.3882	2.8428	0.7750	3.4297	91.5%
2	08:12:58	42.8223	42.7648	105.3%	1.3605	2.9102	0.4763	3.3308	93.2%
3	08:13:34	42.5584	43.4375	105.2%	1.5395	3.4074	1.2142	4.0560	93.7%
x		42.5956	43.1639	104.3%	1.4294	3.0535	0.8218	3.6055	92.8%
σ		0.2106	0.3535	1.7%	0.0964	0.3083	0.3712	0.3932	1.2%
%RSD		0.4944	0.8189	1.6	6.7411	10.0981	45.1691	10.9064	1.2

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:12:21	95.7%	0.3541	0.3484	100.2%	3.6568	3.5480	3.5969
2	08:12:58	97.2%	0.3462	0.3414	101.9%	3.6606	3.5719	3.5858
3	08:13:34	97.1%	0.3353	0.3470	103.0%	3.6425	3.5369	3.5591
x		96.7%	0.3452	0.3456	101.7%	3.6533	3.5523	3.5806
σ		0.8%	0.0094	0.0037	1.4%	0.0096	0.0179	0.0194
%RSD		0.8	2.7341	1.0673	1.4	0.2620	0.5037	0.5425

K1701432-001L 2/27/2017 8:16:03 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:16:03	106.4%	0.0005	109.3%	0.7830	2.5610	4.0483	1.9903	10.5282
2	08:16:40	106.6%	-0.0056	110.7%	0.7608	2.5917	4.1067	2.0271	10.7239
3	08:17:17	102.5%	-0.0062	110.0%	0.7750	2.6623	4.0877	2.0014	10.8368
x		105.2%	-0.0038	110.0%	0.7729	2.6050	4.0809	2.0063	10.6963
σ		2.3%	0.0037	0.7%	0.0113	0.0519	0.0298	0.0189	0.1561
%RSD		2.2	98.4633	0.6	1.4586	1.9934	0.7300	0.9399	1.4597

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:16:03	10.2781	10.0557	107.3%	0.2718	0.7831	0.4269	0.7128	100.1%
2	08:16:40	9.8088	10.2807	109.3%	0.2165	0.5632	0.4631	0.3594	101.4%
3	08:17:17	10.4861	10.2184	109.9%	0.3109	0.5680	0.5560	0.5362	101.3%
x		10.1910	10.1849	108.8%	0.2664	0.6381	0.4820	0.5361	100.9%
σ		0.3470	0.1161	1.4%	0.0474	0.1256	0.0666	0.1767	0.7%
%RSD		3.4047	1.1402	1.2	17.7950	19.6813	13.8142	32.9618	0.7

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:16:03	100.8%	0.0617	0.0559	104.5%	0.5957	0.5516	0.5756
2	08:16:40	101.9%	0.0574	0.0654	105.7%	0.5969	0.5865	0.5786
3	08:17:17	102.9%	0.0635	0.0660	105.9%	0.5820	0.5814	0.5693
x		101.9%	0.0609	0.0624	105.3%	0.5915	0.5732	0.5745
σ		1.1%	0.0031	0.0056	0.8%	0.0082	0.0189	0.0048
%RSD		1.1	5.0985	8.9937	0.7	1.3937	3.2934	0.8285

K1701432-001A 2/27/2017 8:19:40 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:19:40	96.9%	51.2577	108.8%	52.7962	61.9067	66.1723	56.4082	91.9177
2	08:20:16	99.7%	51.0714	111.4%	52.5338	62.4537	66.1127	56.1854	91.9510
3	08:20:53	101.7%	50.7444	112.1%	52.7127	62.7901	66.6285	56.2936	92.1008
x		99.4%	51.0245	110.8%	52.6809	62.3835	66.3045	56.2957	91.9898
σ		2.4%	0.2598	1.7%	0.1340	0.4459	0.2822	0.1114	0.0975
%RSD		2.4	0.5092	1.6	0.2544	0.7147	0.4256	0.1979	0.1060

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:19:40	88.0618	89.7322	103.3%	54.7194	52.0949	51.0681	51.1792	92.2%
2	08:20:16	88.6636	89.1256	105.1%	54.9363	52.3114	51.0872	52.3147	93.2%
3	08:20:53	88.9581	89.4797	105.6%	55.7487	51.4706	51.9697	52.8656	94.1%
x		88.5612	89.4458	104.7%	55.1348	51.9590	51.3750	52.1198	93.2%
σ		0.4569	0.3047	1.2%	0.5426	0.4366	0.5151	0.8599	1.0%
%RSD		0.5159	0.3406	1.1	0.9841	0.8402	1.0027	1.6499	1.0

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:19:40	97.0%	50.3285	49.3471	102.0%	53.6640	53.4864	53.7055
2	08:20:16	98.9%	49.8632	48.9636	103.0%	54.0261	54.0830	54.2242
3	08:20:53	98.4%	50.5872	49.8661	103.6%	53.7855	53.7785	53.8767
x		98.1%	50.2596	49.3923	102.9%	53.8252	53.7826	53.9355
σ		1.0%	0.3668	0.4529	0.8%	0.1843	0.2983	0.2643
%RSD		1.0	0.7299	0.9170	0.8	0.3424	0.5547	0.4900

K1701432-001S 2/27/2017 8:23:23 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:23:23	95.1%	2.2463	108.0%	25.2000	35.2242	28.7315	17.4434	63.4069
2	08:23:59	94.5%	2.3035	109.0%	25.3368	36.2464	28.9486	17.4553	63.6991
3	08:24:36	96.7%	2.2265	110.6%	25.2910	36.3757	28.9696	17.6344	63.7300
x		95.5%	2.2588	109.2%	25.2759	35.9488	28.8832	17.5110	63.6120
σ		1.1%	0.0400	1.3%	0.0696	0.6308	0.1318	0.1070	0.1783
%RSD		1.2	1.7705	1.2	0.2755	1.7548	0.4563	0.6110	0.2803

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:23:23	63.2024	63.2667	102.2%	48.9120	46.8686	44.9620	47.0214	91.2%
2	08:23:59	64.7304	63.1931	103.4%	48.8184	45.8581	44.5204	47.3413	91.9%
3	08:24:36	64.8082	64.1448	104.4%	49.0571	46.3177	45.3626	46.1216	93.5%
x		64.2470	63.5348	103.3%	48.9292	46.3481	44.9483	46.8281	92.2%
σ		0.9055	0.5295	1.1%	0.1203	0.5060	0.4213	0.6324	1.2%
%RSD		1.4094	0.8334	1.1	0.2459	1.0917	0.9373	1.3505	1.3

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:23:23	93.7%	34.7340	33.9670	101.1%	47.8433	49.1772	48.6463
2	08:23:59	95.3%	34.7685	34.3752	102.6%	47.7896	49.5600	48.8969
3	08:24:36	95.9%	35.3236	34.6625	102.8%	47.7407	49.3283	48.7429
x		95.0%	34.9420	34.3349	102.1%	47.7912	49.3552	48.7620
σ		1.2%	0.3309	0.3495	0.9%	0.0513	0.1928	0.1264
%RSD		1.2	0.9470	1.0179	0.9	0.1074	0.3907	0.2592

K1701432-001SD 2/27/2017 8:26:49 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:26:49	91.6%	2.4008	105.7%	25.2278	36.3685	28.6841	17.2487	63.2791
2	08:27:26	91.8%	2.2165	106.9%	25.2793	36.9245	29.0094	17.5352	63.6954
3	08:28:03	94.6%	2.3061	108.4%	25.2813	36.8515	29.0073	17.4774	63.9965
x		92.6%	2.3078	107.0%	25.2628	36.7148	28.9003	17.4204	63.6570
σ		1.7%	0.0922	1.3%	0.0303	0.3021	0.1872	0.1515	0.3603
%RSD		1.8	3.9942	1.2	0.1201	0.8230	0.6478	0.8698	0.5660

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:26:49	62.3261	63.7770	101.1%	49.2143	46.3296	45.6838	46.5906	90.5%
2	08:27:26	64.6224	63.1532	102.1%	49.1934	46.8788	46.0423	47.1797	91.2%
3	08:28:03	64.2276	63.7210	103.0%	49.1646	47.2639	45.3077	44.8635	92.1%
x		63.7254	63.5504	102.1%	49.1908	46.8241	45.6779	46.2113	91.2%
σ		1.2278	0.3451	1.0%	0.0250	0.4696	0.3673	1.2038	0.8%
%RSD		1.9267	0.5431	0.9	0.0507	1.0028	0.8042	2.6049	0.9

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:26:49	93.3%	41.3890	40.3303	100.7%	47.8237	49.4587	48.8611
2	08:27:26	95.5%	41.2162	40.5227	102.1%	47.9039	49.6169	49.0684
3	08:28:03	95.9%	41.8788	40.8994	102.3%	48.3205	49.7370	49.1859
x		94.9%	41.4947	40.5841	101.7%	48.0160	49.6042	49.0384
σ		1.4%	0.3437	0.2895	0.9%	0.2667	0.1396	0.1645
%RSD		1.5	0.8283	0.7134	0.8	0.5554	0.2814	0.3354

K1701432-002 2/27/2017 8:32:21 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:32:21	106.9%	0.0126	106.7%	3.2768	4.5024	3.4564	3.3000	7.6998
2	08:32:58	107.9%	0.0364	106.4%	3.3134	4.5935	3.4752	3.4037	7.6663
3	08:33:34	107.8%	0.0210	105.9%	3.2871	4.5379	3.4613	3.4239	7.8075
x		107.5%	0.0233	106.3%	3.2924	4.5446	3.4643	3.3758	7.7246
σ		0.5%	0.0121	0.4%	0.0189	0.0459	0.0097	0.0665	0.0738
%RSD		0.5	51.7958	0.4	0.5738	1.0099	0.2813	1.9693	0.9553

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:32:21	7.6011	7.4123	104.9%	1.4949	0.3145	-0.2009	-0.0134	99.7%
2	08:32:58	7.7866	7.4847	106.1%	1.5186	0.2660	-0.2307	0.2286	99.9%
3	08:33:34	7.6984	7.3022	107.3%	1.4847	0.2479	-0.0500	-0.0777	100.4%
x		7.6954	7.3997	106.1%	1.4994	0.2761	-0.1605	0.0458	100.0%
σ		0.0928	0.0919	1.2%	0.0174	0.0344	0.0969	0.1615	0.4%
%RSD		1.2060	1.2420	1.2	1.1595	12.4615	60.3319	352.3131	0.4

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:32:21	98.8%	0.0568	0.0556	103.8%	0.2618	0.2486	0.2538
2	08:32:58	99.9%	0.0607	0.0660	105.8%	0.2646	0.2634	0.2572
3	08:33:34	100.4%	0.0602	0.0687	106.2%	0.2645	0.2567	0.2578
x		99.7%	0.0592	0.0634	105.2%	0.2636	0.2562	0.2562
σ		0.8%	0.0021	0.0069	1.3%	0.0016	0.0074	0.0022
%RSD		0.8	3.5435	10.8956	1.2	0.6137	2.8891	0.8471

K1701432-003 2/27/2017 8:36:06 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:36:06	109.2%	0.0138	105.8%	2.1753	2.9074	3.3109	3.2635	6.7150
2	08:36:43	107.1%	0.0039	105.2%	2.1645	3.0017	3.2755	3.3305	6.7922
3	08:37:20	109.6%	0.0086	105.7%	2.0943	3.0293	3.2475	3.2555	6.6564
x		108.6%	0.0088	105.6%	2.1447	2.9794	3.2779	3.2832	6.7212
σ		1.3%	0.0049	0.3%	0.0440	0.0639	0.0318	0.0411	0.0681
%RSD		1.2	56.3053	0.3	2.0495	2.1455	0.9691	1.2532	1.0134

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:36:06	6.2551	6.4910	107.0%	0.3399	0.1093	-0.4559	-0.1291	99.6%
2	08:36:43	6.4751	6.5393	106.8%	0.4153	0.0576	-0.0335	0.0964	101.1%
3	08:37:20	6.7124	6.5445	107.8%	0.3341	0.2542	-0.0065	-0.0119	101.3%
x		6.4808	6.5249	107.2%	0.3631	0.1404	-0.1653	-0.0149	100.7%
σ		0.2287	0.0295	0.5%	0.0453	0.1019	0.2520	0.1128	0.9%
%RSD		3.5289	0.4527	0.5	12.4748	72.5736	152.4680	757.1329	0.9

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:36:06	99.9%	0.0669	0.0668	103.7%	0.4290	0.4568	0.4402
2	08:36:43	100.9%	0.0676	0.0775	105.7%	0.4387	0.4376	0.4347
3	08:37:20	101.5%	0.0694	0.0755	106.3%	0.4320	0.4303	0.4321
x		100.8%	0.0680	0.0733	105.3%	0.4332	0.4415	0.4357
σ		0.8%	0.0013	0.0057	1.3%	0.0050	0.0137	0.0041
%RSD		0.8	1.8391	7.7410	1.3	1.1455	3.1018	0.9512

K1701432-004 2/27/2017 8:39:46 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:39:46	107.4%	0.0004	103.2%	1.3366	1.9068	3.6359	3.5835	10.1088
2	08:40:23	105.8%	-0.0020	103.6%	1.3003	1.9120	3.5773	3.5559	10.2196
3	08:40:59	102.8%	0.0002	104.4%	1.2992	2.0197	3.5733	3.5015	9.9610
x		105.4%	-0.0005	103.7%	1.3120	1.9461	3.5955	3.5469	10.0964
σ		2.3%	0.0013	0.6%	0.0213	0.0638	0.0350	0.0417	0.1297
%RSD		2.2	285.7686	0.6	1.6254	3.2759	0.9745	1.1761	1.2847

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:39:46	9.5416	9.6626	105.8%	0.5522	0.0540	-0.1703	-0.1161	99.0%
2	08:40:23	9.6172	9.7079	105.6%	0.5702	0.0123	0.0166	-0.1591	100.7%
3	08:40:59	9.5625	9.8466	106.8%	0.5857	-0.0530	-0.0226	-0.1360	100.7%
x		9.5738	9.7390	106.1%	0.5694	0.0044	-0.0587	-0.1371	100.1%
σ		0.0391	0.0959	0.6%	0.0167	0.0539	0.0986	0.0215	1.0%
%RSD		0.4081	0.9845	0.6	2.9412	1220.9220	167.8141	15.7092	1.0

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:39:46	100.2%	0.1107	0.1316	104.3%	0.8407	0.8143	0.8202
2	08:40:23	100.3%	0.1257	0.1148	105.5%	0.8165	0.7943	0.8044
3	08:40:59	101.8%	0.1112	0.1164	105.2%	0.8447	0.8258	0.8206
x		100.8%	0.1159	0.1209	105.0%	0.8340	0.8115	0.8151
σ		0.9%	0.0085	0.0093	0.6%	0.0153	0.0160	0.0092
%RSD		0.9	7.3453	7.6792	0.6	1.8329	1.9657	1.1336

K1701432-005 2/27/2017 8:43:35 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:43:35	108.0%	0.0141	105.3%	2.3667	2.7868	5.5841	5.7392	14.6733
2	08:44:12	107.8%	0.0133	106.0%	2.3398	2.8703	5.6075	5.6792	14.7051
3	08:44:48	112.0%	0.0156	107.8%	2.2895	2.8659	5.4944	5.7445	14.7570
x		109.3%	0.0143	106.4%	2.3320	2.8410	5.5620	5.7210	14.7118
σ		2.4%	0.0012	1.3%	0.0392	0.0470	0.0597	0.0363	0.0423
%RSD		2.2	8.1385	1.2	1.6798	1.6539	1.0735	0.6344	0.2872

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:43:35	14.0515	14.2264	105.6%	0.0900	0.1757	0.2891	-0.1520	100.5%
2	08:44:12	14.2503	14.1710	106.8%	0.1113	-0.0314	-0.2676	-0.1223	99.3%
3	08:44:48	13.9022	14.0764	107.7%	0.0629	0.1646	-0.2652	-0.1565	101.1%
x		14.0680	14.1579	106.7%	0.0880	0.1030	-0.0812	-0.1436	100.3%
σ		0.1746	0.0759	1.0%	0.0242	0.1165	0.3207	0.0186	0.9%
%RSD		1.2414	0.5358	1.0	27.5222	113.1018	394.7607	12.9518	0.9

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:43:35	99.5%	0.1787	0.1863	104.0%	1.7807	1.7180	1.7439
2	08:44:12	100.4%	0.1820	0.1813	105.0%	1.7871	1.7449	1.7391
3	08:44:48	100.5%	0.1819	0.1947	106.4%	1.7300	1.7342	1.7202
x		100.2%	0.1809	0.1874	105.1%	1.7659	1.7324	1.7344
σ		0.6%	0.0019	0.0068	1.2%	0.0313	0.0135	0.0125
%RSD		0.6	1.0507	3.6094	1.2	1.7699	0.7805	0.7208

CCV2 2/27/2017 8:47:16 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:47:16	112.9%	24.7675	107.6%	24.7363	25.1165	24.2686	24.4325	25.3151
2	08:47:53	108.6%	24.8523	106.7%	24.6627	24.8953	24.6576	24.3850	25.6405
3	08:48:30	108.1%	25.0861	105.9%	24.4192	24.6761	24.5272	24.1621	25.5481
x		109.9%	24.9020	106.7%	24.6061	24.8959	24.4845	24.3265	25.5012
σ		2.6%	0.1650	0.8%	0.1660	0.2202	0.1980	0.1444	0.1677
%RSD		2.4	0.6627	0.8	0.6745	0.8845	0.8087	0.5935	0.6575

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:47:16	25.3247	25.2584	109.0%	24.9563	24.1916	24.8548	24.6598	102.5%
2	08:47:53	24.9524	25.3145	108.3%	25.0440	25.7686	25.3999	25.1354	103.3%
3	08:48:30	25.9605	25.0903	108.8%	25.0807	25.1432	25.6402	25.3527	102.3%
x		25.4125	25.2211	108.7%	25.0270	25.0345	25.2983	25.0493	102.7%
σ		0.5097	0.1167	0.4%	0.0639	0.7941	0.4024	0.3544	0.5%
%RSD		2.0058	0.4626	0.4	0.2553	3.1721	1.5908	1.4146	0.5

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:47:16	102.8%	26.5706	26.6141	105.1%	25.8501	26.0627	25.8975
2	08:47:53	103.5%	26.8099	26.5896	106.3%	25.8239	25.9757	25.9180
3	08:48:30	104.2%	26.8312	26.7055	106.1%	25.9243	26.0221	25.9462
x		103.5%	26.7372	26.6364	105.8%	25.8661	26.0202	25.9206
σ		0.7%	0.1447	0.0611	0.6%	0.0521	0.0435	0.0245
%RSD		0.7	0.5412	0.2294	0.6	0.2015	0.1674	0.0944

CCB2 2/27/2017 8:57:12 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:57:12	105.8%	-0.0064	103.4%	-0.0091	0.2247	0.0774	0.0596	0.0040
2	08:57:48	105.0%	-0.0036	102.0%	-0.0110	0.2463	0.0878	0.0751	0.0057
3	08:58:25	105.3%	-0.0010	103.3%	0.0004	0.2272	0.0792	0.0606	0.0018
x		105.4%	-0.0037	102.9%	-0.0066	0.2327	0.0815	0.0651	0.0038
σ		0.4%	0.0027	0.8%	0.0061	0.0118	0.0056	0.0087	0.0020
%RSD		0.4	72.3507	0.8	93.5056	5.0678	6.8167	13.3222	51.5691

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:57:12	-0.0062	-0.0030	104.3%	-0.0712	0.1021	0.0957	-0.2068	98.8%
2	08:57:48	0.0228	-0.0125	104.5%	-0.0554	0.1315	-0.1903	-0.1692	99.2%
3	08:58:25	0.0550	-0.0113	105.4%	-0.0346	0.1987	0.3121	-0.0721	99.4%
x		0.0239	-0.0089	104.8%	-0.0537	0.1441	0.0725	-0.1494	99.1%
σ		0.0306	0.0052	0.6%	0.0184	0.0495	0.2520	0.0695	0.3%
%RSD		128.1221	57.7166	0.6	34.1788	34.3739	347.7239	46.5305	0.3

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	08:57:12	97.9%	0.0224	0.0188	101.2%	0.0031	0.0005	0.0028
2	08:57:48	98.8%	0.0220	0.0189	102.4%	0.0061	0.0062	0.0063
3	08:58:25	100.2%	0.0244	0.0227	103.4%	0.0061	0.0073	0.0068
x		99.0%	0.0229	0.0201	102.3%	0.0051	0.0047	0.0053
σ		1.1%	0.0013	0.0022	1.1%	0.0018	0.0036	0.0022
%RSD		1.2	5.7718	10.9372	1.1	34.3973	77.9560	41.0951

K1701432-006 2/27/2017 9:00:52 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:00:52	109.2%	0.0290	107.4%	2.9751	3.2543	4.8634	5.0277	5.5217
2	09:01:28	106.5%	0.0266	107.1%	2.9420	3.0529	4.7491	5.0090	5.6140
3	09:02:05	104.5%	0.0300	107.3%	3.0269	3.1888	4.7866	4.9349	5.6680
x		106.7%	0.0285	107.3%	2.9813	3.1654	4.7997	4.9905	5.6012
σ		2.3%	0.0017	0.1%	0.0428	0.1027	0.0583	0.0491	0.0740
%RSD		2.2	6.1219	0.1	1.4347	3.2460	1.2138	0.9831	1.3207

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:00:52	5.4477	5.5147	106.0%	0.0343	0.0436	-0.3192	-0.0207	98.4%
2	09:01:28	5.5419	5.2966	108.5%	0.0597	0.0027	-0.2630	-0.0627	99.3%
3	09:02:05	5.6969	5.3337	108.2%	0.0360	0.0537	-0.2264	-0.0700	99.6%
x		5.5622	5.3816	107.6%	0.0433	0.0333	-0.2695	-0.0511	99.1%
σ		0.1258	0.1167	1.3%	0.0142	0.0270	0.0467	0.0266	0.6%
%RSD		2.2623	2.1686	1.3	32.7966	80.9119	17.3408	52.1001	0.6

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:00:52	99.1%	0.0147	0.0147	102.4%	0.2437	0.2442	0.2434
2	09:01:28	99.2%	0.0153	0.0155	104.3%	0.2414	0.2420	0.2439
3	09:02:05	100.6%	0.0191	0.0172	103.6%	0.2574	0.2460	0.2450
x		99.6%	0.0163	0.0158	103.4%	0.2475	0.2441	0.2441
σ		0.8%	0.0024	0.0012	1.0%	0.0086	0.0020	0.0008
%RSD		0.8	14.6046	7.8885	1.0	3.4875	0.8212	0.3369

K1701432-001 DISS 2/27/2017 9:04:29 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:04:29	63.2%	-0.0038	103.9%	3.0267	54.1738	60.2188	2.0768	14.3879
2	09:05:06	63.7%	-0.0025	109.9%	2.9480	54.3525	62.8192	2.0794	14.3121
3	09:05:42	65.2%	-0.0083	111.4%	2.8859	58.0237	65.1155	2.1316	14.5740
x		64.0%	-0.0048	108.4%	2.9535	55.5167	62.7178	2.0959	14.4246
σ		1.1%	0.0030	4.0%	0.0706	2.1730	2.4499	0.0309	0.1348
%RSD		1.7	62.9440	3.7	2.3891	3.9142	3.9063	1.4739	0.9344

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:04:29	12.0424	11.9768	91.3%	5.4352	17.2422	2.2449	17.2940	75.6%
2	09:05:06	11.8839	12.0005	95.8%	5.5046	17.9008	3.0283	17.7685	79.3%
3	09:05:42	12.2210	12.0134	97.0%	4.9500	19.4788	2.9173	17.0641	80.8%
x		12.0491	11.9969	94.7%	5.2966	18.2073	2.7302	17.3756	78.6%
σ		0.1687	0.0186	3.0%	0.3021	1.1494	0.4239	0.3592	2.6%
%RSD		1.3999	0.1550	3.1	5.7044	6.3127	15.5266	2.0673	3.4

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:04:29	81.7%	0.9938	0.9890	83.4%	0.2073	0.2127	0.2124
2	09:05:06	84.2%	0.9838	0.9482	84.7%	0.2179	0.2076	0.2107
3	09:05:42	85.8%	0.9607	0.9466	84.4%	0.2135	0.2139	0.2116
x		83.9%	0.9794	0.9612	84.2%	0.2129	0.2114	0.2116
σ		2.1%	0.0169	0.0240	0.7%	0.0053	0.0034	0.0008
%RSD		2.5	1.7301	2.4977	0.8	2.5043	1.5876	0.3959

K1701432-002 DISS 2/27/2017 9:08:21 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:08:21	114.7%	-0.0030	116.2%	1.6960	5.3589	5.5771	4.9335	7.4554
2	09:08:58	115.1%	-0.0015	115.7%	1.6749	5.1232	5.4810	4.9087	7.4342
3	09:09:35	116.1%	-0.0040	113.9%	1.6754	4.6474	5.5531	5.0584	7.5404
x		115.3%	-0.0028	115.3%	1.6821	5.0432	5.5371	4.9669	7.4767
σ		0.8%	0.0013	1.2%	0.0120	0.3624	0.0500	0.0802	0.0562
%RSD		0.7	44.6445	1.0	0.7156	7.1862	0.9029	1.6155	0.7517

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:08:21	6.9016	7.1007	113.0%	7.4761	0.5144	0.3730	0.5183	107.0%
2	09:08:58	7.3688	7.3117	112.5%	7.5965	0.4816	0.6209	0.2178	106.0%
3	09:09:35	6.9563	7.2802	111.5%	7.5278	0.4598	0.3955	0.6077	105.7%
x		7.0755	7.2308	112.3%	7.5335	0.4853	0.4631	0.4479	106.3%
σ		0.2554	0.1138	0.7%	0.0604	0.0275	0.1371	0.2043	0.7%
%RSD		3.6097	1.5743	0.7	0.8017	5.6630	29.6003	45.6063	0.6

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:08:21	105.1%	0.1521	0.1560	107.1%	0.4362	0.4287	0.4291
2	09:08:58	106.5%	0.1603	0.1563	109.0%	0.4255	0.4221	0.4222
3	09:09:35	106.6%	0.1534	0.1518	108.9%	0.4485	0.4238	0.4279
x		106.1%	0.1553	0.1547	108.3%	0.4367	0.4249	0.4264
σ		0.9%	0.0044	0.0025	1.1%	0.0115	0.0034	0.0037
%RSD		0.8	2.8362	1.6270	1.0	2.6420	0.8096	0.8642

K1701432-003 DISS 2/27/2017 9:12:03 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:12:03	115.1%	-0.0022	110.1%	1.3315	3.2301	3.6807	3.5162	3.3862
2	09:12:40	112.9%	-0.0045	110.2%	1.3377	3.0957	3.7084	3.5961	3.4329
3	09:13:16	116.6%	-0.0056	111.0%	1.3433	2.9969	3.7415	3.5163	3.2975
x		114.9%	-0.0041	110.4%	1.3375	3.1076	3.7102	3.5429	3.3722
σ		1.9%	0.0017	0.5%	0.0059	0.1171	0.0304	0.0461	0.0688
%RSD		1.6	41.9020	0.4	0.4408	3.7677	0.8206	1.3012	2.0391

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:12:03	3.3914	3.2652	109.0%	1.7728	0.4934	0.0774	0.1167	102.7%
2	09:12:40	3.4360	3.3401	109.7%	1.7704	0.3293	0.3300	0.0031	103.5%
3	09:13:16	3.2781	3.2330	110.0%	1.8327	0.1596	0.0756	0.0314	104.1%
x		3.3685	3.2794	109.5%	1.7920	0.3274	0.1610	0.0504	103.4%
σ		0.0814	0.0550	0.5%	0.0353	0.1669	0.1464	0.0592	0.7%
%RSD		2.4176	1.6764	0.5	1.9713	50.9820	90.9072	117.3533	0.7

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:12:03	102.9%	0.1660	0.1767	106.7%	0.0377	0.0356	0.0370
2	09:12:40	104.5%	0.1595	0.1715	108.5%	0.0377	0.0338	0.0362
3	09:13:16	104.9%	0.1685	0.1695	109.5%	0.0353	0.0388	0.0371
x		104.1%	0.1647	0.1726	108.2%	0.0369	0.0361	0.0368
σ		1.1%	0.0046	0.0037	1.4%	0.0014	0.0025	0.0005
%RSD		1.0	2.8186	2.1591	1.3	3.7600	7.0432	1.2896

K1701432-004 DISS 2/27/2017 9:15:47 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:15:47	113.9%	-0.0102	107.2%	1.5313	2.6525	5.1341	4.7800	3.7652
2	09:16:23	110.1%	-0.0092	107.1%	1.5402	2.6316	4.9586	4.8749	3.7543
3	09:17:00	107.4%	-0.0082	107.0%	1.4825	2.7332	4.9902	4.7754	3.8106
x		110.4%	-0.0092	107.1%	1.5180	2.6725	5.0276	4.8101	3.7767
σ		3.3%	0.0010	0.1%	0.0310	0.0536	0.0935	0.0562	0.0299
%RSD		3.0	10.8262	0.1	2.0446	2.0070	1.8605	1.1679	0.7904

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:15:47	3.9605	3.7224	106.3%	2.5872	0.3045	-0.0466	0.1987	100.3%
2	09:16:23	4.0246	3.7088	107.5%	2.6411	0.2457	0.2486	0.3343	101.1%
3	09:17:00	3.8131	3.7604	109.1%	2.7644	0.2251	0.4463	0.1736	102.5%
x		3.9328	3.7305	107.7%	2.6642	0.2584	0.2161	0.2355	101.3%
σ		0.1085	0.0268	1.4%	0.0908	0.0412	0.2481	0.0864	1.1%
%RSD		2.7580	0.7176	1.3	3.4085	15.9357	114.8063	36.6995	1.1

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:15:47	101.1%	0.3152	0.2976	105.7%	0.0302	0.0283	0.0329
2	09:16:23	103.0%	0.3163	0.3287	108.5%	0.0349	0.0316	0.0325
3	09:17:00	103.7%	0.3362	0.3330	107.6%	0.0303	0.0330	0.0322
x		102.6%	0.3226	0.3198	107.3%	0.0318	0.0310	0.0325
σ		1.3%	0.0118	0.0193	1.4%	0.0027	0.0024	0.0004
%RSD		1.3	3.6620	6.0470	1.3	8.5465	7.8444	1.1036

K1701432-005 DISS 2/27/2017 9:19:36 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:19:36	114.3%	-0.0054	107.2%	0.6320	1.2747	7.3049	7.3253	1.8861
2	09:20:12	110.7%	-0.0076	105.9%	0.6053	1.2907	7.2734	7.4775	1.7794
3	09:20:49	117.4%	-0.0048	108.3%	0.6421	1.2788	7.2047	7.3626	1.7958
x		114.1%	-0.0059	107.1%	0.6265	1.2814	7.2610	7.3885	1.8204
σ		3.3%	0.0015	1.2%	0.0190	0.0083	0.0512	0.0793	0.0575
%RSD		2.9	24.7431	1.1	3.0368	0.6478	0.7055	1.0734	3.1581

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:19:36	1.9231	1.8418	106.4%	0.5435	0.0907	-0.2896	0.0019	100.4%
2	09:20:12	2.1082	1.7833	107.4%	0.5484	0.2062	0.2308	0.0096	101.3%
3	09:20:49	2.0845	1.8645	108.6%	0.6476	0.1089	0.1398	0.1027	102.4%
x		2.0386	1.8299	107.4%	0.5798	0.1352	0.0270	0.0381	101.4%
σ		0.1007	0.0419	1.1%	0.0587	0.0621	0.2780	0.0561	1.0%
%RSD		4.9390	2.2902	1.0	10.1242	45.8975	1029.5236	147.4462	1.0

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:19:36	101.0%	0.4306	0.4390	105.9%	0.0356	0.0348	0.0356
2	09:20:12	101.9%	0.4347	0.4301	107.6%	0.0343	0.0340	0.0352
3	09:20:49	104.0%	0.4502	0.4329	107.9%	0.0406	0.0370	0.0367
x		102.3%	0.4385	0.4340	107.2%	0.0369	0.0353	0.0358
σ		1.5%	0.0103	0.0046	1.1%	0.0033	0.0016	0.0008
%RSD		1.5	2.3556	1.0570	1.0	9.0775	4.4785	2.1020

K1701432-006 DISS 2/27/2017 9:23:16 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:23:16	114.0%	-0.0045	109.9%	1.8018	2.2656	3.7372	3.3874	2.1317
2	09:23:53	113.2%	-0.0037	112.3%	1.8246	2.1860	3.7305	3.4910	2.1634
3	09:24:30	111.9%	-0.0044	111.5%	1.8571	2.2846	3.7212	3.5080	2.2206
x		113.0%	-0.0042	111.2%	1.8278	2.2454	3.7296	3.4622	2.1719
σ		1.1%	0.0005	1.2%	0.0278	0.0523	0.0080	0.0653	0.0450
%RSD		0.9	10.9003	1.1	1.5221	2.3314	0.2157	1.8867	2.0737

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:23:16	2.4082	2.3394	106.2%	0.0999	0.2985	-0.1533	0.1927	98.3%
2	09:23:53	2.1695	2.3252	106.7%	0.0695	0.2921	-0.2837	0.1258	100.2%
3	09:24:30	2.4735	2.2643	107.1%	0.1132	0.2895	0.1686	0.2704	100.6%
x		2.3504	2.3096	106.7%	0.0942	0.2934	-0.0895	0.1963	99.7%
σ		0.1600	0.0399	0.5%	0.0224	0.0047	0.2328	0.0724	1.2%
%RSD		6.8092	1.7277	0.4	23.8140	1.5944	260.2162	36.8762	1.3

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:23:16	99.1%	0.0297	0.0276	105.7%	0.0598	0.0511	0.0547
2	09:23:53	101.5%	0.0263	0.0247	107.3%	0.0539	0.0471	0.0510
3	09:24:30	102.2%	0.0267	0.0295	108.2%	0.0543	0.0569	0.0554
x		100.9%	0.0276	0.0273	107.1%	0.0560	0.0517	0.0537
σ		1.6%	0.0018	0.0024	1.3%	0.0033	0.0049	0.0024
%RSD		1.6	6.6290	8.8750	1.2	5.8819	9.4941	4.4458

CCV3 2/27/2017 9:26:51 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:26:51	116.9%	24.5661	109.5%	24.3047	25.2012	24.3612	24.2130	25.6954
2	09:27:28	110.4%	25.2669	108.4%	24.0471	24.6272	24.2380	23.9530	25.4528
3	09:28:05	107.8%	24.7804	109.5%	24.0835	25.0070	24.0569	23.8773	25.7012
x		111.7%	24.8712	109.1%	24.1451	24.9451	24.2187	24.0144	25.6165
σ		4.7%	0.3591	0.6%	0.1394	0.2919	0.1530	0.1761	0.1418
%RSD		4.2	1.4438	0.6	0.5775	1.1703	0.6319	0.7333	0.5535

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:26:51	25.3329	24.9653	112.0%	25.1208	25.3479	25.5376	24.6647	106.4%
2	09:27:28	24.9728	24.8132	112.9%	25.1244	25.1490	25.5270	25.4929	105.3%
3	09:28:05	25.0659	24.8421	113.2%	24.7628	25.4222	25.5402	23.9520	105.9%
x		25.1239	24.8735	112.7%	25.0026	25.3064	25.5350	24.7032	105.9%
σ		0.1869	0.0808	0.6%	0.2077	0.1413	0.0070	0.7712	0.6%
%RSD		0.7441	0.3247	0.5	0.8307	0.5582	0.0275	3.1217	0.5

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:26:51	106.4%	26.3281	26.4110	108.9%	25.6964	25.9036	25.7638
2	09:27:28	107.4%	26.9750	26.7865	110.0%	25.7124	25.6641	25.6798
3	09:28:05	108.4%	27.0037	26.9808	110.6%	25.7638	25.6482	25.6037
x		107.4%	26.7690	26.7261	109.8%	25.7242	25.7386	25.6825
σ		1.0%	0.3820	0.2896	0.9%	0.0353	0.1431	0.0801
%RSD		0.9	1.4272	1.0837	0.8	0.1370	0.5559	0.3119

CCB3 2/27/2017 9:37:05 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:37:05	110.0%	-0.0050	105.4%	-0.0042	0.2537	0.0824	0.0711	0.0070
2	09:37:42	106.9%	-0.0030	104.4%	-0.0055	0.2362	0.0631	0.0667	0.0123
3	09:38:19	110.9%	-0.0042	106.7%	-0.0132	0.2560	0.0710	0.0740	0.0034
x		109.3%	-0.0041	105.5%	-0.0076	0.2486	0.0721	0.0706	0.0076
σ		2.1%	0.0010	1.2%	0.0048	0.0108	0.0097	0.0037	0.0045
%RSD		1.9	24.9406	1.1	63.4654	4.3496	13.4533	5.1772	59.0702

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:37:05	0.0398	-0.0196	105.8%	-0.0528	0.1960	-0.2965	-0.1302	100.1%
2	09:37:42	0.0205	0.0057	106.2%	-0.0422	0.1320	-0.1192	-0.1511	100.7%
3	09:38:19	0.0828	0.0092	108.4%	-0.0391	0.0407	-0.0265	-0.1767	101.8%
x		0.0477	-0.0016	106.8%	-0.0447	0.1229	-0.1474	-0.1527	100.9%
σ		0.0319	0.0157	1.4%	0.0072	0.0780	0.1372	0.0233	0.8%
%RSD		66.8559	1004.8207	1.3	16.0503	63.5084	93.0715	15.2439	0.8

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:37:05	100.1%	0.0171	0.0188	105.0%	0.0045	0.0053	0.0047
2	09:37:42	100.8%	0.0227	0.0227	104.9%	0.0065	0.0043	0.0068
3	09:38:19	102.1%	0.0240	0.0271	106.1%	0.0068	0.0063	0.0066
x		101.0%	0.0213	0.0228	105.3%	0.0059	0.0053	0.0060
σ		1.0%	0.0036	0.0042	0.6%	0.0012	0.0010	0.0011
%RSD		1.0	17.1585	18.2771	0.6	21.0325	18.2787	18.9213

LLCCVW2 2/27/2017 9:40:45 AM

User Pre-dilution: 1.000

Run	Time	6Li	9Be	45Sc	60Ni	62Ni	63Cu	65Cu	66Zn
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:40:45	112.3%	0.0089	107.7%	0.1722	0.4659	0.1567	0.1261	0.4305
2	09:41:22	109.4%	0.0087	104.9%	0.1532	0.4609	0.1532	0.1142	0.3888
3	09:41:58	108.7%	0.0130	105.6%	0.1750	0.4569	0.1665	0.1100	0.4025
x		110.1%	0.0102	106.1%	0.1668	0.4612	0.1588	0.1167	0.4073
σ		1.9%	0.0025	1.5%	0.0119	0.0045	0.0069	0.0084	0.0213
%RSD		1.8	24.3707	1.4	7.1309	0.9800	4.3335	7.1555	5.2203

Run	Time	67Zn	68Zn	71Ga	75As	77Se	78Se	82Se	103Rh
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:40:45	0.4824	0.3808	110.1%	0.5159	0.9870	1.0384	0.7668	102.7%
2	09:41:22	0.4269	0.3538	107.5%	0.5383	0.9197	0.9231	0.9477	101.2%
3	09:41:58	0.4708	0.3649	107.0%	0.5292	0.7950	1.4837	0.7490	100.7%
x		0.4600	0.3665	108.2%	0.5278	0.9006	1.1484	0.8212	101.5%
σ		0.0293	0.0135	1.7%	0.0113	0.0974	0.2960	0.1099	1.0%
%RSD		6.3620	3.6967	1.6	2.1372	10.8131	25.7784	13.3891	1.0

Run	Time	115In	121Sb	123Sb	175Lu	206Pb	207Pb	208Pb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	09:40:45	102.2%	0.0609	0.0556	106.6%	0.0194	0.0188	0.0189
2	09:41:22	101.3%	0.0563	0.0650	105.2%	0.0163	0.0196	0.0187
3	09:41:58	101.0%	0.0627	0.0554	105.5%	0.0179	0.0169	0.0180
x		101.5%	0.0600	0.0586	105.7%	0.0179	0.0184	0.0185
σ		0.7%	0.0033	0.0055	0.7%	0.0016	0.0014	0.0005
%RSD		0.7	5.4996	9.3210	0.7	8.7797	7.6840	2.6160

Service Request # K1701351(LCSW reruns),K1701757,K1701767(BQC),K1701803(BQC)

Instrument ID # K-ICP-MS-03
Calibration 030117CMS03_____
ALS LIMS Run # 536561_____

Cal Std: MS21-50I
ICV Std: MS21-48H
LLICV Std: MS21-48I
I.S. Solution: MS21-34-A

ICSA: MS21-50J
ICSAB: MS21-50K

ICP-MS Data Review Form

	Yes	No	NA
1. Appropriate standardization completed	X		
2. ICV in control (+/- 10%)	X		
3. CCV's in control (+/- 10%)	X		
4. ICB/CCB's below MRL	X		
5. LLICV standard analyzed and in control	X		
6. ICS standards within 20% of true value	X		
6. All analytes within instrument linear range	X		
7. Adequate rinse out time allowed	X		
8. Internal standards in control	X		
9. Interferences checked	X		
10. Was the run terminated? If so, why.		X	

See Benchsheet exception report for sample batch QC information.

Comments:

Primary Review by (b) (6) Date 3/1/17
Secondary Review by Date 3/1/17

Data Review Form

Instrument ID#: **K-ICP-MS-03**

DataFile Name: **R:\ICP\WIP\DATA\K-ICP-MS-03 (X-Series) \030117AMS03.csv**

K1701757

No exceptions to report.

Primary Approver: (b) (6)

Secondary Approver: (b) (6)

Sample List

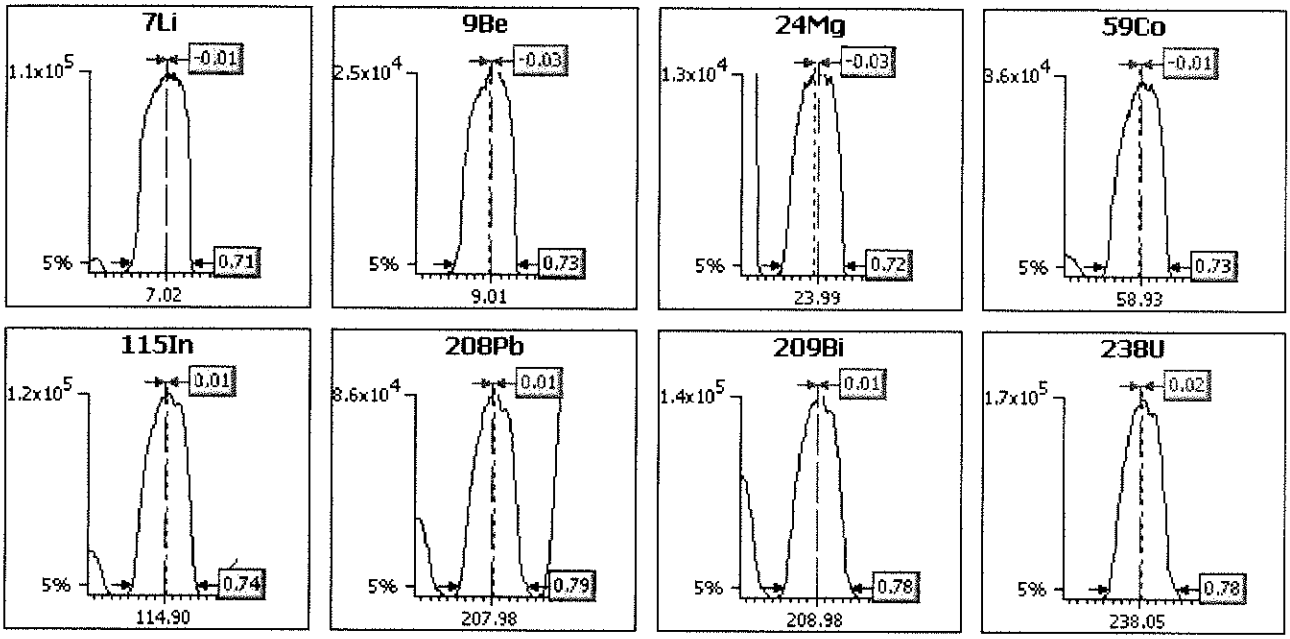
No	Label	Type	Weight	Rack	Row	Col	Height
1	Cal. Blk	Blank	1.000	0	1	1	145
2	Cal. Stn	Fully Quant Standard	1.000	0	1	2	145
3	ICV1	Unknown	1.000	0	1	3	145
4	CCV1	Unknown	1.000	0	1	2	145
5	ICB1	Unknown	1.000	0	1	1	145
6	CCB1	Unknown	1.000	0	1	1	145
7	LLICVW	Unknown	1.000	0	1	4	145
8	ICSA	Unknown	1.000	0	1	5	145
9	ICSAB	Unknown	1.000	0	1	6	145
10	KQ1701660-02	Unknown	1.000	1	1	1	145
11	KQ1701660-03	Unknown	1.000	1	1	2	145
12	KQ1702030-01	Unknown	1.000	1	1	3	145
13	KQ1702030-01	Unknown	1.000	1	1	4	145
14	K1701757-001	Unknown	1.000	1	1	5	145
15	K1701757-001D	Unknown	1.000	1	1	6	145
16	K1701757-001L	Unknown	1.000	1	1	7	145
17	K1701757-001A	Unknown	1.000	1	1	8	145
18	K1701757-001S	Unknown	1.000	1	1	9	145
19	CCV2	Unknown	1.000	0	1	2	145
20	CCB2	Unknown	1.000	0	1	1	145
21	LLCCVW1	Unknown	1.000	0	1	4	145
22	K1701757-002	Unknown	1.000	1	1	10	145
23	K1701757-003	Unknown	1.000	1	1	11	145
24	K1701757-004	Unknown	1.000	1	1	12	145
25	K1701757-005	Unknown	1.000	1	2	1	145
26	K1701757-006	Unknown	1.000	1	2	2	145
27	CCV3	Unknown	1.000	0	1	2	145
28	CCB3	Unknown	1.000	0	1	1	145
29	LLCCVW2	Unknown	1.000	0	1	4	145

Performance Report

Sample details
Acquired at : 3/1/2017 5:51:56 AM
Report name : Kelso Performance Report 3 [2/13/2017 6:09:58 AM]

Mass Calibration verification

Acquisition parameters
Sweeps : 100
Dwell : 1.0 mSecs
Point spacing : 0.01 amu
Peak width measured at 5% of the peak maximum



Analyte	Limits			Results	
	Max. width	Min. width	Max. error	Peak width	Peak error
7Li	0.90	0.60	0.10	0.71	-0.01
9Be	0.90	0.60	0.10	0.73	-0.03
24Mg	0.90	0.60	0.10	0.72	-0.03
59Co	0.90	0.60	0.10	0.73	-0.01
115In	0.90	0.60	0.10	0.74	0.01
208Pb	0.90	0.60	0.10	0.79	0.01
209Bi	0.90	0.60	0.10	0.78	0.01
238U	0.90	0.60	0.10	0.78	0.02

Sample details
Acquired at : 3/1/2017 5:51:56 AM
Report name : Kelso Performance Report 3 [2/13/2017 6:09:58 AM]

Tune conditions

Major	
Extraction	-110
Lens 1	3.8
Focus	18.4
D1	-40.8
Pole Bias	-0.0
Hexapole Bias	3.5
Nebuliser	0.78
Sampling Depth	34

Minor	
Lens 2	-20.4
Lens 3	-171.8
Forward power	1404
Horizontal	126
Vertical	363
D2	-155
DA	-35.3
Cool	13.0
Auxiliary	0.80

Global	
Standard resolution	105
High resolution	71
Analogue Detector	1800
PC Detector	3280

Add. Gases

Sensitivity and stability results

Acquisition parameters
Sweeps : 350

Run	Time	5Bkg	7Li	9Be	24Mg	59Co	115In	140Ce	156Ce O	208Pb
Dwell (mSecs)		10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Limits	%RSD	-	5.0%	5.0%	5.0%	5.0%	5.0%	-	-	5.0%
	Countrate	-	>1000	>1000	>1000	>1000	>1000	-	-	>1000
1	5:54:04 AM	0.000	109398.30	27081.420	13374.402	35495.160	121861.61	136727.37	2529.781	87947.363
2	5:55:08 AM	0.000	108802.07	26838.988	13423.904	35574.039	122007.26	136970.13	2508.918	88118.436
3	5:56:12 AM	0.000	109569.49	26820.362	13437.066	35446.972	121985.54	136947.51	2459.476	88089.875
4	5:57:15 AM	0.000	107924.27	26628.084	13297.719	35425.747	121424.10	136198.38	2404.318	88275.665
5	5:58:19 AM	0.000	107799.95	26802.309	13326.046	35411.979	121598.70	136591.35	2487.197	87725.809
x		0.000	108698.82	26834.233	13371.827	35470.779	121775.44	136686.95	2477.938	88031.430
σ		0.00	816.38	161.89	60.34	65.78	254.94	315.26	48.72	206.83
%RSD		0.000	0.751	0.603	0.451	0.185	0.209	0.231	1.966	0.235

Run	Time	209Bi	220Bkg	238U
Dwell (mSecs)		10.0	10.0	10.0
Limits	%RSD	5.0%	-	5.0%
	Countrate	>1000	-	>1000
1	5:54:04 AM	134798.31	0.000	164982.16
2	5:55:08 AM	135800.20	0.000	165353.39
3	5:56:12 AM	135741.33	0.000	165320.51
4	5:57:15 AM	135101.62	0.286	164742.73
5	5:58:19 AM	135565.60	0.000	164913.79
x		135401.41	0.057	165062.52
σ		434.49	0.13	265.52
%RSD		0.321	223.607	0.161

Ratio results

Run	Time	156Ce O/140Ce
Ratio limits		<0.0300
1	5:54:04 AM	0.019
2	5:55:08 AM	0.018
3	5:56:12 AM	0.018
4	5:57:15 AM	0.018
5	5:58:19 AM	0.018
x		0.0181
σ		0.00
%RSD		1.8224

Result : The performance report passed.

(b) (6) [redacted]

Dilution Corrected Concentrations

Cal. Blk 3/1/2017 6:21:05 AM

User Pre-dilution: 1.000

Run	Time	63Cu	65Cu	71Ga	75As	77Se	78Se	82Se	103Rh	232Th	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:21:05	0.0015	0.0026	100.0%	0.0619	0.0571	0.0475	0.1722	100.4%	98.4%	0.0000
2	06:21:23	-0.0063	-0.0014	99.8%	-0.0737	-0.0567	-0.0037	-0.2094	100.2%	101.2%	-0.0001
3	06:21:40	0.0048	-0.0012	100.2%	0.0118	-0.0004	-0.0438	0.0372	99.4%	100.4%	0.0001
x		-0.0000	0.0000	100.0%	0.0000	0.0000	0.0000	-0.0000	100.0%	100.0%	-0.0000
σ		0.0057	0.0022	0.2%	0.0686	0.0569	0.0457	0.1935	0.5%	1.4%	0.0001
%RSD		0.0000	0.0000	0.2	0.0000	0.0000	0.0000	0.0000	0.5	1.4	0.0000

Cal. Stn 3/1/2017 6:23:50 AM

User Pre-dilution: 1.000

Run	Time	63Cu	65Cu	71Ga	75As	77Se	78Se	82Se	103Rh	232Th	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:23:50	24.7464	25.1528	93.0%	24.3095	24.4937	24.8827	24.2804	92.9%	80.9%	24.2191
2	06:24:08	25.2059	24.8565	92.3%	25.4640	24.6135	24.8656	25.6917	89.7%	76.5%	25.4419
3	06:24:25	25.0476	24.9907	92.4%	25.2266	25.8928	25.2517	25.0279	89.8%	79.3%	25.3390
x		25.0000	25.0000	92.6%	25.0000	25.0000	25.0000	25.0000	90.8%	78.9%	25.0000
σ		0.2334	0.1484	0.4%	0.6097	0.7755	0.2182	0.7060	1.9%	2.2%	0.6782
%RSD		0.9336	0.5935	0.4	2.4387	3.1019	0.8726	2.8241	2.0	2.8	2.7128

ICV1 3/1/2017 6:26:34 AM

User Pre-dilution: 1.000

Run	Time	63Cu	65Cu	71Ga	75As	77Se	78Se	82Se	103Rh	232Th	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:26:34	13.0680	12.9689	102.5%	23.4915	27.2584	22.7785	25.8110	103.0%	101.2%	26.1520
2	06:26:52	13.0697	12.9681	103.0%	23.6934	26.7460	22.4564	26.4740	103.5%	106.1%	26.1720
3	06:27:10	12.9551	13.1895	104.0%	23.8977	27.8732	23.1381	26.5436	103.0%	109.0%	26.5830
x		13.0309	13.0422	103.2%	23.6942	27.2925	22.7910	26.2762	103.2%	105.4%	26.3024
σ		0.0657	0.1276	0.7%	0.2031	0.5644	0.3410	0.4044	0.3%	3.9%	0.2433
%RSD		0.5041	0.9784	0.7	0.8572	2.0679	1.4964	1.5389	0.3	3.7	0.9249

CCV1 3/1/2017 6:29:19 AM

User Pre-dilution: 1.000

Run	Time	63Cu	65Cu	71Ga	75As	77Se	78Se	82Se	103Rh	232Th	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:29:19	25.1108	24.5294	98.4%	23.2420	25.7822	23.4946	24.0586	98.2%	89.8%	25.3230
2	06:29:38	24.7888	24.5624	100.0%	23.6927	26.3254	23.6504	25.1839	99.3%	92.7%	24.5282
3	06:29:55	24.2580	24.3002	100.6%	23.1165	26.0207	23.1048	24.7534	100.7%	99.0%	24.9862
x		24.7192	24.4640	99.7%	23.3504	26.0427	23.4166	24.6653	99.4%	93.8%	24.9458
σ		0.4306	0.1428	1.1%	0.3030	0.2722	0.2810	0.5678	1.3%	4.7%	0.3990
%RSD		1.7420	0.5838	1.1	1.2976	1.0454	1.2001	2.3018	1.3	5.0	1.5993

ICB1 3/1/2017 6:32:04 AM

User Pre-dilution: 1.000

Run	Time	63Cu	65Cu	71Ga	75As	77Se	78Se	82Se	103Rh	232Th	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:32:04	-0.0004	0.0075	109.3%	-0.0209	-0.1374	-1.0488	-0.0292	107.9%	114.3%	0.0016
2	06:32:22	0.0124	0.0086	107.8%	-0.0274	0.0489	-1.3056	-0.0744	106.6%	113.1%	0.0027
3	06:32:40	0.0177	0.0065	109.2%	0.0099	0.1463	-1.2742	0.0585	108.7%	117.3%	0.0040
x		0.0099	0.0076	108.8%	-0.0128	0.0193	-1.2095	-0.0150	107.7%	114.9%	0.0028
σ		0.0093	0.0010	0.8%	0.0199	0.1441	0.1401	0.0676	1.1%	2.2%	0.0012
%RSD		94.1900	13.7310	0.7	155.8478	748.3613	11.5845	449.4693	1.0	1.9	43.2644

CCB1 3/1/2017 6:34:49 AM

User Pre-dilution: 1.000

Run	Time	63Cu	65Cu	71Ga	75As	77Se	78Se	82Se	103Rh	232Th	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:34:49	0.0141	0.0118	111.5%	-0.0076	0.1543	-1.6116	0.0079	109.8%	117.2%	0.0019
2	06:35:06	0.0141	0.0079	108.7%	-0.0692	0.0766	-1.4534	-0.1620	106.9%	116.6%	0.0017
3	06:35:24	0.0131	-0.0026	112.4%	0.0640	0.0563	-1.3547	0.2422	111.5%	122.7%	0.0024
x		0.0137	0.0057	110.9%	-0.0043	0.0957	-1.4732	0.0294	109.4%	118.8%	0.0020
σ		0.0006	0.0074	1.9%	0.0667	0.0517	0.1296	0.2030	2.3%	3.4%	0.0004
%RSD		4.1812	129.6317	1.7	1560.0179	54.0559	8.7964	691.2833	2.1	2.8	18.9139

LLICVW 3/1/2017 6:37:33 AM

User Pre-dilution: 1.000

Run	Time	63Cu	65Cu	71Ga	75As	77Se	78Se	82Se	103Rh	232Th	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:37:33	0.1046	0.1034	112.5%	0.5287	1.1608	-0.6609	0.7182	110.7%	120.9%	0.0196
2	06:37:51	0.1067	0.1093	111.7%	0.5671	1.0146	-0.5981	0.8487	111.2%	121.2%	0.0213
3	06:38:09	0.1092	0.0954	112.9%	0.6521	0.9720	-0.5295	1.1061	110.9%	121.5%	0.0209
x		0.1068	0.1027	112.4%	0.5826	1.0491	-0.5962	0.8910	110.9%	121.2%	0.0206
σ		0.0023	0.0070	0.6%	0.0631	0.0990	0.0658	0.1974	0.2%	0.3%	0.0009
%RSD		2.1320	6.7825	0.5	10.8317	9.4372	11.0317	22.1511	0.2	0.2	4.1656

ICSA 3/1/2017 6:40:19 AM

User Pre-dilution: 1.000

Run	Time	63Cu	65Cu	71Ga	75As	77Se	78Se	82Se	103Rh	232Th	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:40:19	1.8650	0.8404	106.6%	0.1880	1.6703	-1.5278	-0.2067	100.8%	118.4%	0.0027
2	06:40:37	1.8092	0.8228	105.9%	0.3058	1.5293	-1.7639	0.1285	100.5%	119.7%	0.0031
3	06:40:55	1.8285	0.8268	107.0%	0.2175	1.8073	-1.4785	-0.0696	100.1%	118.9%	0.0033
x		1.8342	0.8300	106.5%	0.2371	1.6690	-1.5901	-0.0493	100.4%	119.0%	0.0030
σ		0.0283	0.0093	0.6%	0.0613	0.1390	0.1525	0.1685	0.4%	0.7%	0.0003
%RSD		1.5438	1.1145	0.5	25.8555	8.3289	9.5921	341.9808	0.4	0.6	9.4961

ICSAB 3/1/2017 6:43:06 AM

User Pre-dilution: 1.000

Run	Time	63Cu	65Cu	71Ga	75As	77Se	78Se	82Se	103Rh	232Th	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:43:06	49.4988	47.0241	108.7%	22.2609	25.8854	19.4310	24.2087	102.9%	120.7%	0.0074
2	06:43:24	48.2945	46.6010	108.3%	22.0538	27.1510	19.8683	23.3269	102.4%	121.8%	0.0080
3	06:43:42	48.2003	46.6174	107.9%	21.9177	26.9998	19.6364	23.2198	102.2%	122.6%	0.0076
x		48.6645	46.7475	108.3%	22.0775	26.6788	19.6452	23.5851	102.5%	121.7%	0.0077
σ		0.7240	0.2397	0.4%	0.1728	0.6912	0.2188	0.5427	0.4%	0.9%	0.0003
%RSD		1.4878	0.5128	0.4	0.7828	2.5908	1.1136	2.3009	0.4	0.8	4.1371

KQ1701660-02 3/1/2017 6:47:30 AM

User Pre-dilution: 1.000

Run	Time	63Cu	65Cu	71Ga	75As	77Se	78Se	82Se	103Rh	232Th	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:47:30	12.7202	12.7866	113.1%	45.3829	58.4425	43.8342	51.6456	110.9%	128.3%	20.0135
2	06:47:48	12.6703	12.3105	111.3%	45.3170	59.6631	44.9523	51.5516	110.2%	128.9%	20.0728
3	06:48:05	13.0301	12.7694	112.0%	45.6747	57.5560	44.1645	52.3045	110.8%	129.1%	19.8811
x		12.8069	12.6222	112.1%	45.4582	58.5539	44.3170	51.8339	110.6%	128.8%	19.9892
σ		0.1949	0.2700	0.9%	0.1904	1.0580	0.5745	0.4102	0.4%	0.5%	0.0981
%RSD		1.5219	2.1393	0.8	0.4188	1.8068	1.2963	0.7915	0.3	0.4	0.4910

RJP 1.17

KQ1701660-03 3/1/2017 6:50:13 AM

User Pre-dilution: 1.000

Run	Time	63Cu	65Cu	71Ga	75As	77Se	78Se	82Se	103Rh	232Th	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:50:13	12.9352	12.9080	112.1%	46.6181	59.3207	44.7518	52.9899	110.1%	128.6%	20.7623
2	06:50:31	13.0426	12.8651	111.1%	46.5827	60.3934	46.2252	53.4932	109.6%	129.5%	20.9773
3	06:50:48	13.0837	12.8286	112.3%	45.6559	58.2840	45.0059	53.0237	110.9%	130.2%	20.4093
x		13.0205	12.8673	111.9%	46.2856	59.3327	45.3276	53.1689	110.2%	129.4%	20.7163
σ		0.0767	0.0397	0.6%	0.5456	1.0547	0.7876	0.2813	0.6%	0.8%	0.2868
%RSD		0.5888	0.3089	0.5	1.1787	1.7777	1.7376	0.5291	0.6	0.6	1.3841

KQ1702030-01 3/1/2017 6:53:03 AM

User Pre-dilution: 1.000

Run	Time	63Cu	65Cu	71Ga	75As	77Se	78Se	82Se	103Rh	232Th	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:53:03	0.0620	0.0597	109.0%	0.0846	0.1733	-1.7911	0.1626	104.4%	115.1%	0.0034
2	06:53:21	0.0678	0.0489	106.6%	0.0780	0.2423	-1.3899	0.1730	102.8%	113.5%	0.0021
3	06:53:38	0.0665	0.0545	107.9%	-0.0578	0.1569	-1.6341	-0.2532	105.1%	115.9%	0.0025
x		0.0654	0.0543	107.8%	0.0350	0.1908	-1.6050	0.0275	104.1%	114.8%	0.0027
σ		0.0030	0.0054	1.2%	0.0804	0.0453	0.2021	0.2431	1.2%	1.3%	0.0007
%RSD		4.6411	9.9309	1.1	229.8216	23.7638	12.5941	885.0933	1.1	1.1	25.4560

KQ1702030-04 3/1/2017 6:59:35 AM

User Pre-dilution: 1.000

Run	Time	63Cu	65Cu	71Ga	75As	77Se	78Se	82Se	103Rh	232Th	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	06:59:35	11.8847	11.7379	107.8%	43.7832	50.3574	42.3806	48.4914	103.4%	109.2%	18.7660
2	06:59:53	11.5379	11.3279	107.4%	43.4183	51.0523	43.4407	48.3059	103.4%	110.5%	19.0222
3	07:00:11	11.7677	11.5580	107.3%	44.3394	51.7441	42.7030	48.6519	102.2%	110.5%	19.0029
x		11.7301	11.5413	107.5%	43.8470	51.0513	42.8415	48.4831	103.0%	110.1%	18.9304
σ		0.1764	0.2055	0.3%	0.4638	0.6934	0.5434	0.1731	0.7%	0.8%	0.1427
%RSD		1.5040	1.7807	0.3	1.0579	1.3582	1.2685	0.3571	0.7	0.7	0.7536

K1701757-001 3/1/2017 7:02:19 AM

User Pre-dilution: 1.000

Run	Time	63Cu	65Cu	71Ga	75As	77Se	78Se	82Se	103Rh	232Th	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:02:19	1.3184	0.3161	103.0%	0.4780	0.2375	-0.9528	0.5089	97.6%	108.9%	0.3031
2	07:02:37	1.3127	0.3139	105.1%	0.3466	0.3686	-0.9358	0.1067	98.0%	111.6%	0.2940
3	07:02:55	1.3126	0.3037	104.7%	0.4190	0.2819	-0.9679	0.3473	98.6%	112.7%	0.3051
x		1.3146	0.3112	104.3%	0.4145	0.2960	-0.9522	0.3210	98.1%	111.1%	0.3007
σ		0.0033	0.0066	1.1%	0.0658	0.0667	0.0161	0.2024	0.5%	1.9%	0.0059
%RSD		0.2510	2.1269	1.1	15.8717	22.5269	1.6866	63.0544	0.5	1.7	1.9721

K1701757-001D 3/1/2017 7:05:03 AM

User Pre-dilution: 1.000

Run	Time	63Cu	65Cu	71Ga	75As	77Se	78Se	82Se	103Rh	232Th	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:05:03	1.3266	0.2917	105.0%	0.2726	0.3116	-0.9273	-0.0556	99.3%	109.4%	0.2946
2	07:05:21	1.3523	0.3242	103.1%	0.4085	0.2930	-1.2617	0.2808	97.6%	109.2%	0.3083
3	07:05:39	1.2780	0.3264	104.2%	0.2901	0.1303	-1.0907	0.0060	97.7%	111.7%	0.2993
x		1.3189	0.3141	104.1%	0.3237	0.2450	-1.0932	0.0770	98.2%	110.1%	0.3007
σ		0.0377	0.0194	1.0%	0.0739	0.0998	0.1672	0.1791	1.0%	1.4%	0.0069
%RSD		2.8607	6.1831	0.9	22.8421	40.7243	15.2952	232.5169	1.0	1.2	2.3081

K1701757-001L 3/1/2017 7:07:48 AM

User Pre-dilution: 1.000

Run	Time	63Cu	65Cu	71Ga	75As	77Se	78Se	82Se	103Rh	232Th	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:07:48	0.2672	0.0663	108.9%	0.1512	-0.0693	-1.2785	0.2896	103.3%	112.7%	0.0592
2	07:08:06	0.3131	0.0723	108.1%	0.0488	0.0516	-1.2109	-0.0455	102.9%	111.7%	0.0598
3	07:08:24	0.2685	0.0622	108.3%	0.0404	0.0391	-1.1889	-0.0452	103.6%	112.1%	0.0595
x		0.2829	0.0669	108.5%	0.0801	0.0071	-1.2261	0.0663	103.2%	112.2%	0.0595
σ		0.0261	0.0051	0.4%	0.0617	0.0665	0.0467	0.1934	0.3%	0.5%	0.0003
%RSD		9.2373	7.6175	0.4	77.0076	932.7804	3.8093	291.7729	0.3	0.5	0.5062

K1701757-001A 3/1/2017 7:13:40 AM

User Pre-dilution: 1.000

Run	Time	63Cu	65Cu	71Ga	75As	77Se	78Se	82Se	103Rh	232Th	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:13:40	20.3607	19.5503	99.4%	19.3512	21.3830	16.9505	20.3249	92.3%	102.3%	19.7462
2	07:13:57	20.7509	19.4208	97.5%	19.6595	20.5244	17.7838	20.9479	91.1%	100.6%	20.2812
3	07:14:15	21.0265	19.6757	98.4%	19.5254	21.2591	17.4002	20.2603	91.1%	101.9%	20.1630
x		20.7127	19.5489	98.4%	19.5120	21.0555	17.3782	20.5110	91.5%	101.6%	20.0635
σ		0.3345	0.1275	0.9%	0.1546	0.4641	0.4171	0.3798	0.7%	0.9%	0.2811
%RSD		1.6152	0.6520	0.9	0.7922	2.2040	2.4001	1.8515	0.8	0.9	1.4010

K1701757-001S 3/1/2017 7:16:24 AM

User Pre-dilution: 1.000

Run	Time	63Cu	65Cu	71Ga	75As	77Se	78Se	82Se	103Rh	232Th	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:16:24	13.1160	11.9692	99.4%	46.6339	51.7231	43.0545	49.5083	92.8%	102.9%	20.0739
2	07:16:42	12.7703	11.8128	99.1%	47.2678	51.8204	43.4407	50.3552	92.4%	105.0%	19.9079
3	07:17:00	12.6152	11.4528	100.9%	45.7929	51.7819	43.5141	48.6023	93.9%	104.7%	19.5971
x		12.8338	11.7449	99.8%	46.5649	51.7751	43.3364	49.4886	93.0%	104.2%	19.8596
σ		0.2564	0.2648	1.0%	0.7398	0.0490	0.2469	0.8766	0.8%	1.1%	0.2420
%RSD		1.9975	2.2546	1.0	1.5889	0.0947	0.5697	1.7713	0.8	1.1	1.2187

CCV2 3/1/2017 7:19:09 AM

User Pre-dilution: 1.000

Run	Time	63Cu	65Cu	71Ga	75As	77Se	78Se	82Se	103Rh	232Th	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:19:09	25.0285	24.9269	106.9%	23.3392	26.4374	21.3832	24.9139	99.1%	106.6%	24.8903
2	07:19:27	26.4964	25.9625	103.2%	24.1504	26.6768	22.3212	26.5634	97.8%	103.1%	26.1291
3	07:19:44	25.8313	24.8057	104.9%	23.5273	26.3714	21.9077	25.8818	98.8%	105.0%	25.6176
x		25.7854	25.2317	105.0%	23.6723	26.4952	21.8707	25.7863	98.6%	104.9%	25.5457
σ		0.7350	0.6358	1.8%	0.4246	0.1607	0.4701	0.8289	0.7%	1.7%	0.6226
%RSD		2.8506	2.5198	1.8	1.7936	0.6065	2.1494	3.2145	0.7	1.6	2.4371

CCB2 3/1/2017 7:23:25 AM

User Pre-dilution: 1.000

Run	Time	63Cu	65Cu	71Ga	75As	77Se	78Se	82Se	103Rh	232Th	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:23:25	0.0401	0.0242	104.5%	0.0053	0.1716	-1.0723	0.0370	98.9%	104.1%	0.0033
2	07:23:43	0.0417	0.0212	106.5%	-0.0403	0.0610	-1.0555	-0.0851	100.5%	106.4%	0.0047
3	07:24:00	0.0343	0.0270	106.9%	-0.0483	0.1349	-0.7344	-0.1377	100.7%	106.9%	0.0056
x		0.0387	0.0241	106.0%	-0.0278	0.1225	-0.9541	-0.0619	100.0%	105.8%	0.0045
σ		0.0039	0.0029	1.3%	0.0289	0.0564	0.1904	0.0896	1.0%	1.5%	0.0012
%RSD		9.9702	11.8708	1.2	104.1631	46.0099	19.9580	144.7509	1.0	1.4	25.8459

LLCCVW1 3/1/2017 7:26:10 AM

User Pre-dilution: 1.000

Run	Time	63Cu	65Cu	71Ga	75As	77Se	78Se	82Se	103Rh	232Th	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:26:10	0.1247	0.1226	106.8%	0.6730	1.0443	-0.0353	1.1570	101.7%	105.6%	0.0198
2	07:26:28	0.1245	0.1116	106.2%	0.5205	1.3974	-0.1922	0.7334	99.6%	103.6%	0.0213
3	07:26:45	0.1262	0.1332	105.6%	0.5576	0.9663	0.0365	0.7051	99.6%	104.2%	0.0210
x		0.1251	0.1225	106.2%	0.5837	1.1360	-0.0636	0.8652	100.3%	104.5%	0.0207
σ		0.0009	0.0108	0.6%	0.0795	0.2297	0.1169	0.2531	1.2%	1.1%	0.0008
%RSD		0.7252	8.8370	0.6	13.6259	20.2238	183.7380	29.2557	1.2	1.0	3.8831

K1701757-002 3/1/2017 7:30:29 AM

User Pre-dilution: 1.000

Run	Time	63Cu	65Cu	71Ga	75As	77Se	78Se	82Se	103Rh	232Th	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:30:29	1.1590	0.4496	100.9%	0.2395	0.3399	-1.1099	0.1187	92.3%	104.8%	0.2214
2	07:30:46	1.1528	0.4622	100.3%	0.2149	0.5761	-1.1057	0.0456	92.5%	105.3%	0.2208
3	07:31:04	1.1929	0.4580	101.2%	0.2000	0.4405	-1.4139	0.0131	92.9%	103.8%	0.2191
x		1.1682	0.4566	100.8%	0.2181	0.4522	-1.2099	0.0591	92.6%	104.6%	0.2204
σ		0.0216	0.0064	0.5%	0.0199	0.1186	0.1767	0.0541	0.3%	0.8%	0.0012
%RSD		1.8466	1.4062	0.5	9.1452	26.2205	14.6081	91.5024	0.3	0.8	0.5346

K1701757-003 3/1/2017 7:33:15 AM

User Pre-dilution: 1.000

Run	Time	63Cu	65Cu	71Ga	75As	77Se	78Se	82Se	103Rh	232Th	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:33:15	5.2720	4.4021	100.6%	0.3616	0.4337	-0.9738	0.0373	92.8%	103.3%	0.2284
2	07:33:33	5.5337	4.3522	99.1%	0.3910	0.4470	-0.9957	0.2023	91.9%	102.2%	0.2272
3	07:33:51	5.3579	4.4894	98.4%	0.4852	0.4528	-0.6002	0.4019	91.6%	103.7%	0.2389
x		5.3879	4.4146	99.3%	0.4126	0.4445	-0.8566	0.2138	92.1%	103.1%	0.2315
σ		0.1334	0.0694	1.1%	0.0646	0.0098	0.2223	0.1825	0.6%	0.8%	0.0065
%RSD		2.4754	1.5731	1.1	15.6560	2.2055	25.9520	85.3664	0.7	0.8	2.7886

K1701757-004 3/1/2017 7:36:02 AM

User Pre-dilution: 1.000

Run	Time	63Cu	65Cu	71Ga	75As	77Se	78Se	82Se	103Rh	232Th	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:36:02	1.5874	1.0398	100.3%	0.4390	0.3903	-1.3051	0.1353	92.4%	102.2%	0.4374
2	07:36:20	1.5594	1.0426	99.6%	0.3060	0.3364	-0.9028	-0.1921	92.5%	103.4%	0.4372
3	07:36:37	1.6375	1.0662	99.1%	0.4564	0.2821	-0.6610	0.2021	92.2%	102.3%	0.4472
x		1.5948	1.0495	99.7%	0.4005	0.3362	-0.9563	0.0485	92.4%	102.6%	0.4406
σ		0.0396	0.0145	0.6%	0.0823	0.0541	0.3254	0.2110	0.2%	0.7%	0.0057
%RSD		2.4820	1.3806	0.6	20.5512	16.0865	34.0256	435.3873	0.2	0.6	1.2951

K1701757-005 3/1/2017 7:38:47 AM

User Pre-dilution: 1.000

Run	Time	63Cu	65Cu	71Ga	75As	77Se	78Se	82Se	103Rh	232Th	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:38:47	1.4946	0.8938	99.5%	0.7810	0.4451	-1.6894	-0.0202	91.3%	102.1%	0.4990
2	07:39:05	1.5443	0.9054	99.0%	0.8479	0.3873	-1.1047	0.3332	92.6%	102.5%	0.4976
3	07:39:22	1.4582	0.8443	100.6%	0.8653	0.2495	-1.0387	0.2414	91.8%	104.8%	0.4951
x		1.4990	0.8811	99.7%	0.8314	0.3607	-1.2776	0.1848	91.9%	103.2%	0.4972
σ		0.0432	0.0324	0.8%	0.0445	0.1005	0.3581	0.1834	0.7%	1.5%	0.0020
%RSD		2.8814	3.6814	0.8	5.3517	27.8648	28.0329	99.2309	0.7	1.4	0.3962

K1701757-006 3/1/2017 7:41:30 AM

User Pre-dilution: 1.000

Run	Time	63Cu	65Cu	71Ga	75As	77Se	78Se	82Se	103Rh	232Th	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:41:30	1.0271	1.1723	99.0%	2.1544	0.2624	-1.0503	-0.1284	90.3%	100.5%	0.5488
2	07:41:48	1.0419	1.2016	99.7%	2.2216	0.2675	-1.0092	0.0950	91.5%	101.7%	0.5359
3	07:42:06	1.0728	1.1445	99.5%	2.1139	0.3141	-1.3124	0.0047	92.2%	101.7%	0.5187
x		1.0473	1.1728	99.4%	2.1633	0.2813	-1.1240	-0.0096	91.4%	101.3%	0.5344
σ		0.0233	0.0286	0.4%	0.0544	0.0285	0.1645	0.1124	1.0%	0.7%	0.0151
%RSD		2.2243	2.4369	0.4	2.5155	10.1235	14.6324	1170.4050	1.0	0.7	2.8266

CCV3 3/1/2017 7:51:07 AM

User Pre-dilution: 1.000

Run	Time	63Cu	65Cu	71Ga	75As	77Se	78Se	82Se	103Rh	232Th	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:51:07	24.6713	24.1757	104.5%	23.1483	27.6938	20.8725	25.0326	97.1%	108.2%	24.8665
2	07:51:25	24.7187	24.1475	103.3%	22.9599	26.8721	21.1491	24.9853	98.3%	108.6%	24.7424
3	07:51:43	25.1744	24.3581	103.8%	22.9118	25.1030	21.6464	25.0006	98.7%	108.0%	24.5145
x		24.8548	24.2271	103.9%	23.0066	26.5563	21.2226	25.0062	98.0%	108.3%	24.7078
σ		0.2778	0.1143	0.6%	0.1250	1.3239	0.3922	0.0242	0.9%	0.4%	0.1786
%RSD		1.1176	0.4719	0.6	0.5433	4.9854	1.8479	0.0966	0.9	0.3	0.7227

CCB3 3/1/2017 7:53:51 AM

User Pre-dilution: 1.000

Run	Time	63Cu	65Cu	71Ga	75As	77Se	78Se	82Se	103Rh	232Th	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:53:51	0.0311	0.0446	101.4%	-0.0801	-0.0695	-1.2663	-0.2192	95.3%	103.1%	0.0045
2	07:54:09	0.0380	0.0310	100.4%	-0.0701	-0.0429	-1.6131	-0.2128	95.1%	103.5%	0.0064
3	07:54:27	0.0511	0.0407	100.7%	0.0015	0.0252	-1.3279	0.0212	94.9%	104.2%	0.0084
x		0.0401	0.0388	100.8%	-0.0496	-0.0291	-1.4024	-0.1369	95.1%	103.6%	0.0065
σ		0.0101	0.0070	0.5%	0.0445	0.0489	0.1850	0.1370	0.2%	0.5%	0.0019
%RSD		25.3250	18.0120	0.5	89.8659	167.9061	13.1911	100.0702	0.2	0.5	29.8831

LLCCVW2 3/1/2017 7:56:37 AM

User Pre-dilution: 1.000

Run	Time	63Cu	65Cu	71Ga	75As	77Se	78Se	82Se	103Rh	232Th	238U
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	07:56:37	0.1176	0.1127	102.1%	0.5808	1.0876	-0.4917	0.8094	95.8%	106.0%	0.0213
2	07:56:55	0.1391	0.0983	100.6%	0.5911	1.2113	-0.5181	0.8826	95.2%	104.7%	0.0221
3	07:57:12	0.1489	0.1194	101.8%	0.6349	1.1125	-0.5051	1.0093	96.0%	106.2%	0.0205
x		0.1352	0.1101	101.5%	0.6023	1.1371	-0.5050	0.9005	95.7%	105.6%	0.0213
σ		0.0160	0.0108	0.8%	0.0287	0.0655	0.0132	0.1011	0.4%	0.8%	0.0008
%RSD		11.8409	9.8176	0.8	4.7639	5.7561	2.6117	11.2318	0.4	0.8	3.7318

Nitroaromatics and Nitramines (Explosives)

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000229.
Lab ID: K1701351-001
RunType: SMPL
Matrix: SOIL

Date Acquired: 03/03/2017 04:54
Date Quantitated: 03/08/2017 16:10
Batch ID: KWG1701858
Analysis Method: 8330B
ListJoinID: LJ15912

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000229.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 04:54	**Quant Date:**	03/08/2017 16:10	**Vial:**	23
Run Type:	SMPL	**ListJoinID:**	LJ14468	**Dilution:**	1.0
Lab ID:	K1701351-001			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/07/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701858	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587763	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ14468
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_254\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.68	0.07	51612746	2,388	48	34-135	OK	

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0		0.0065	U	
RDX			0		0.050	U	
1,3,5-Trinitrobenzene			0		0.028	U	
1,3-Dinitrobenzene	13.77	0.01	78305**m**	1.30	0.013	U	
TETRYL			0		0.042	U	
Nitrobenzene	16.14	0.03	98612**m**	2.55	0.0045	U	
2,4,6-Trinitrotoluene	17.35	0.02	165482**m**	3.97	0.019	U	
4-Amino-2,6-dinitrotoluene			0		0.0052	U	
2-Amino-4,6-dinitrotoluene			0		0.0076	U	
2,6-Dinitrotoluene			0		0.0052	U	
2,4-Dinitrotoluene	22.14	0.04	417140**m**	7.04	0.042	U	
2-Nitrotoluene			0		0.0072	U	
4-Nitrotoluene			0		0.019	U	
3-Nitrotoluene	27.17	-0.12	159505**m**	7.92	0.019	U	

Prep Amount:	10.004 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99.1 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000229.D Vial: 23
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 04:54:32 Operator: BR
Sample : K1701351-001 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 16:10:10 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
18)	S	1-Chloro-3-Nitrobenzene	29.679	51612746	2388.464	ug/L	
		Target Compounds					
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	0.000	0	N.D.	ug/L	
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	0.000	0	N.D.	ug/L	
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L	
6)	T	1,3-DNB	13.772	78305	1.299	ug/L	m
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L	
8)	T	Tetryl	0.000	0	N.D.	ug/L	
9)	T	Nitrobenzene	16.139	98612	2.554	ug/L	m
10)	T	2,4,6-TNT	17.352	165482	3.973	ug/L	m
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L	
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L	
13)	T	2,6-DNT	0.000	0	N.D.	ug/L	
14)	T	2,4-DNT	22.139	417140	7.042	ug/L	m
15)	T	2-NT	0.000	0	N.D.	ug/L	
16)	T	4-NT	0.000	0	N.D.	ug/L	
17)	T	3-NT	27.172	159505	7.921	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

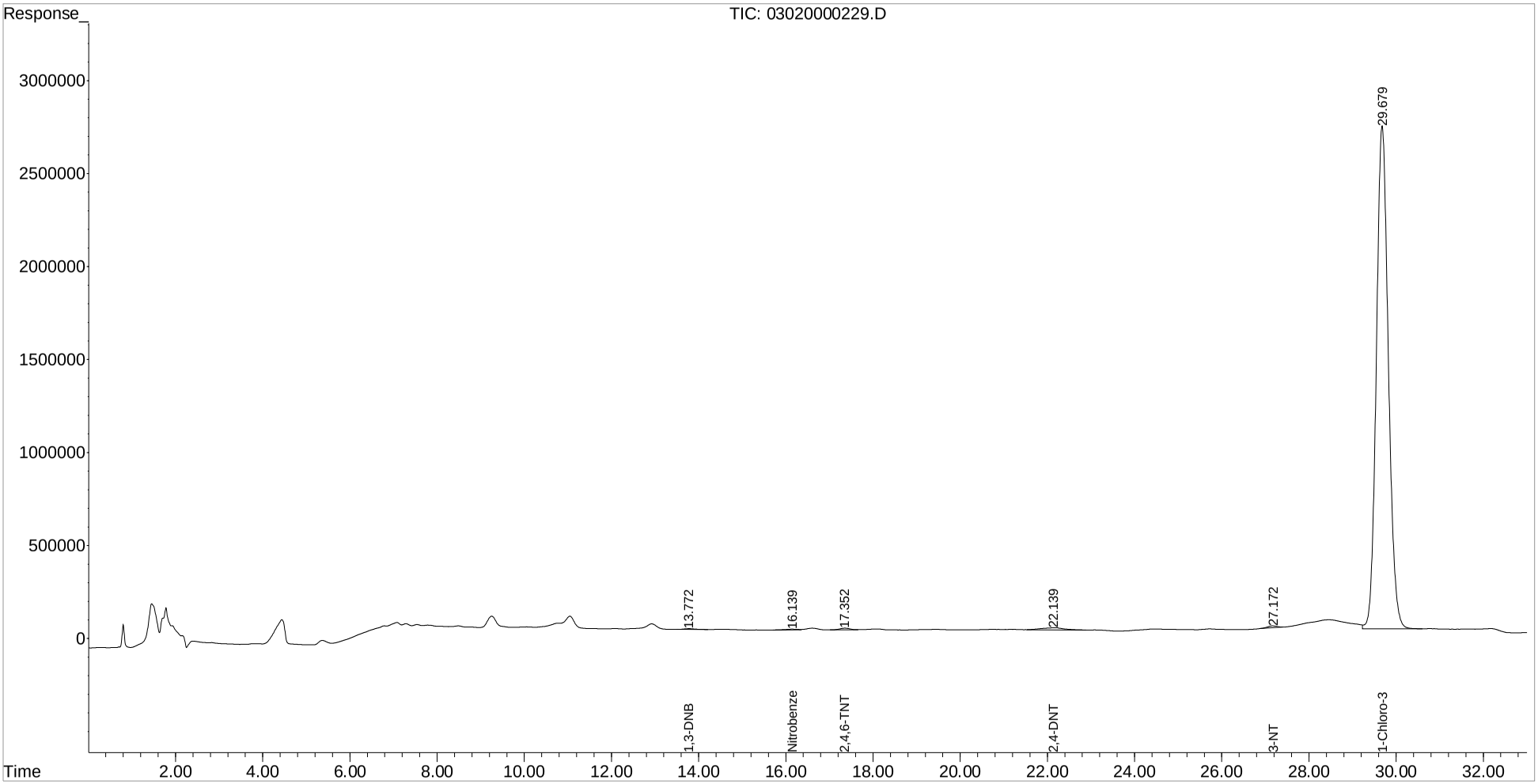
(9) (b) 03/14/17
03/29/17

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000229.D Vial: 23
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 04:54:32 Operator: BR
Sample : K1701351-001 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 16:10:10 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



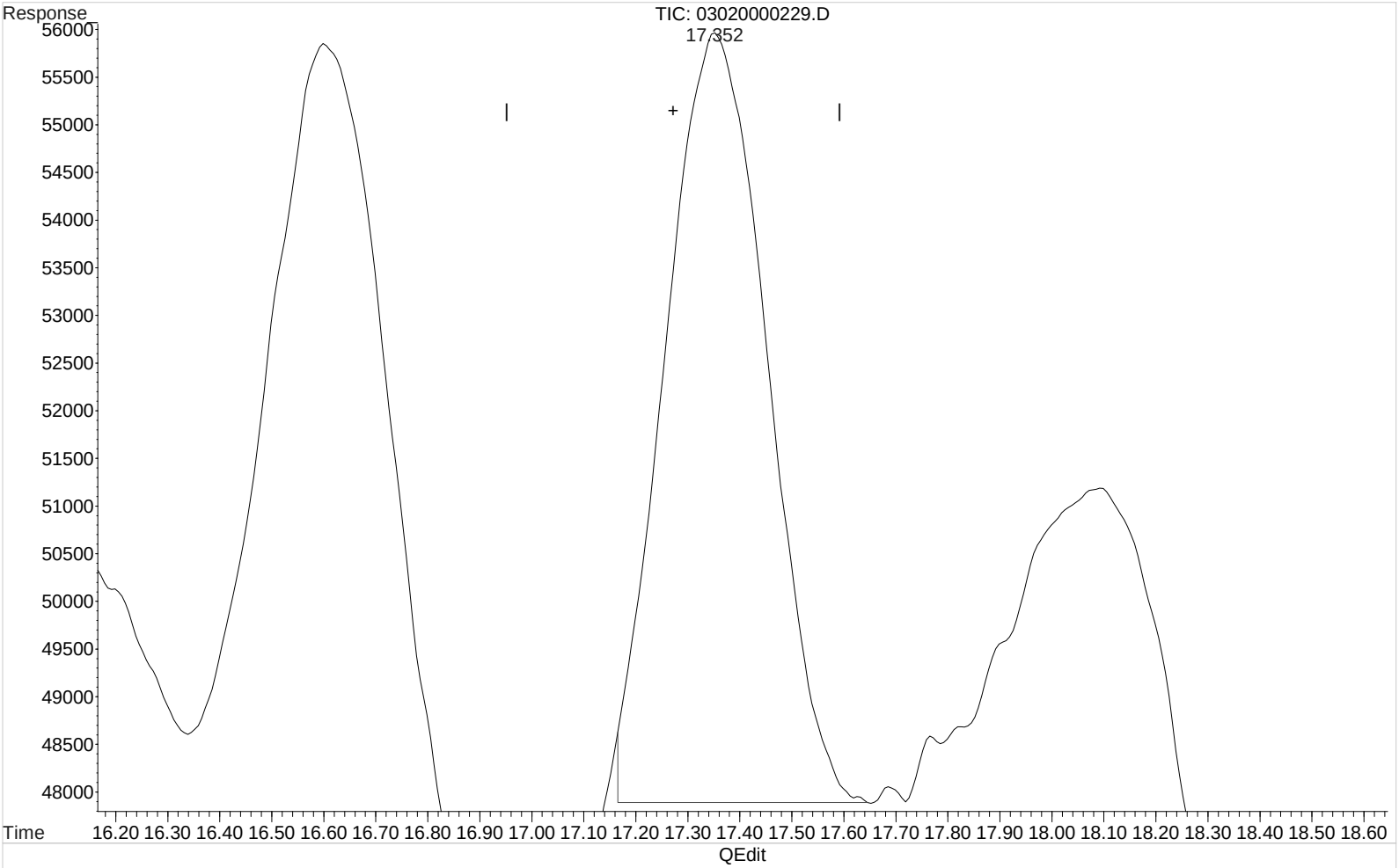
011916

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000229.D Vial: 23
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 04:54:32 Operator: BR
Sample : K1701351-001 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:17 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(10) 2,4,6-TNT (T)

17.352min 2.645 ug/L

response 110174

Manual Integration:

Before

03/08/17

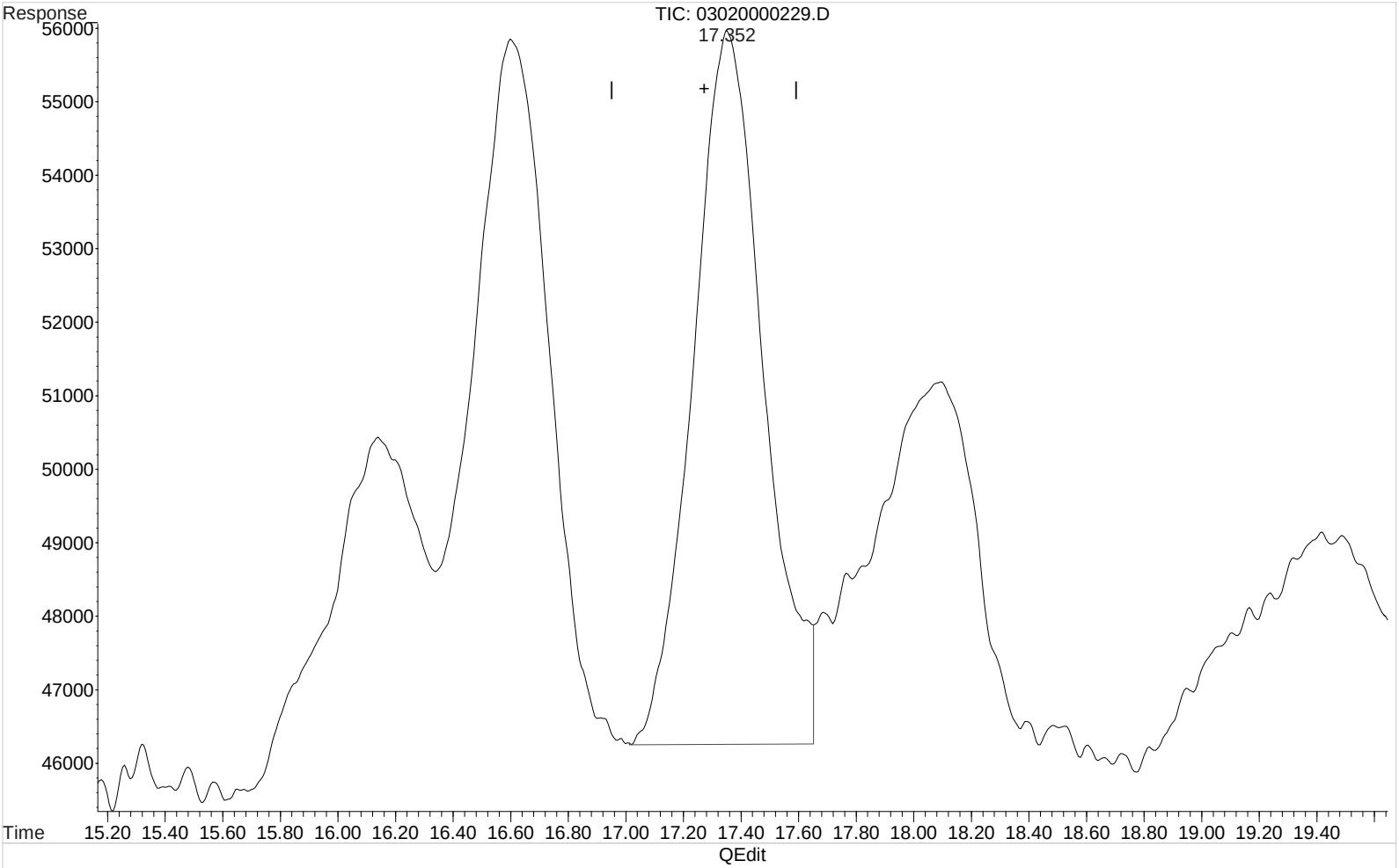
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000229.D Vial: 23
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 04:54:32 Operator: BR
Sample : K1701351-001 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:17 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(10) 2,4,6-TNT (T)

17.352min 3.973 ug/L m

response 165482

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

(b) (6)

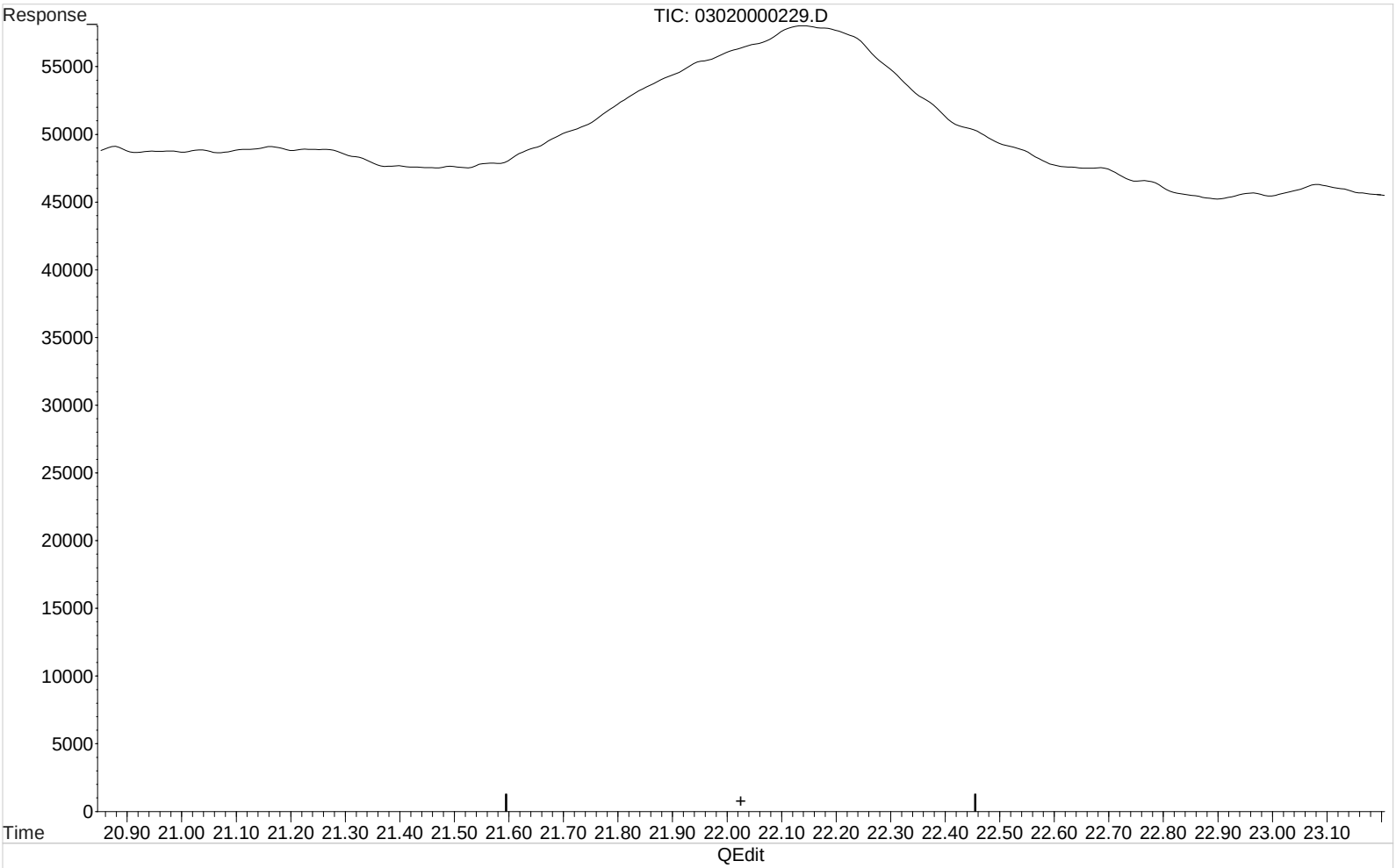
3/14/17

3/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000229.D Vial: 23
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 04:54:32 Operator: BR
Sample : K1701351-001 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:17 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.025min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

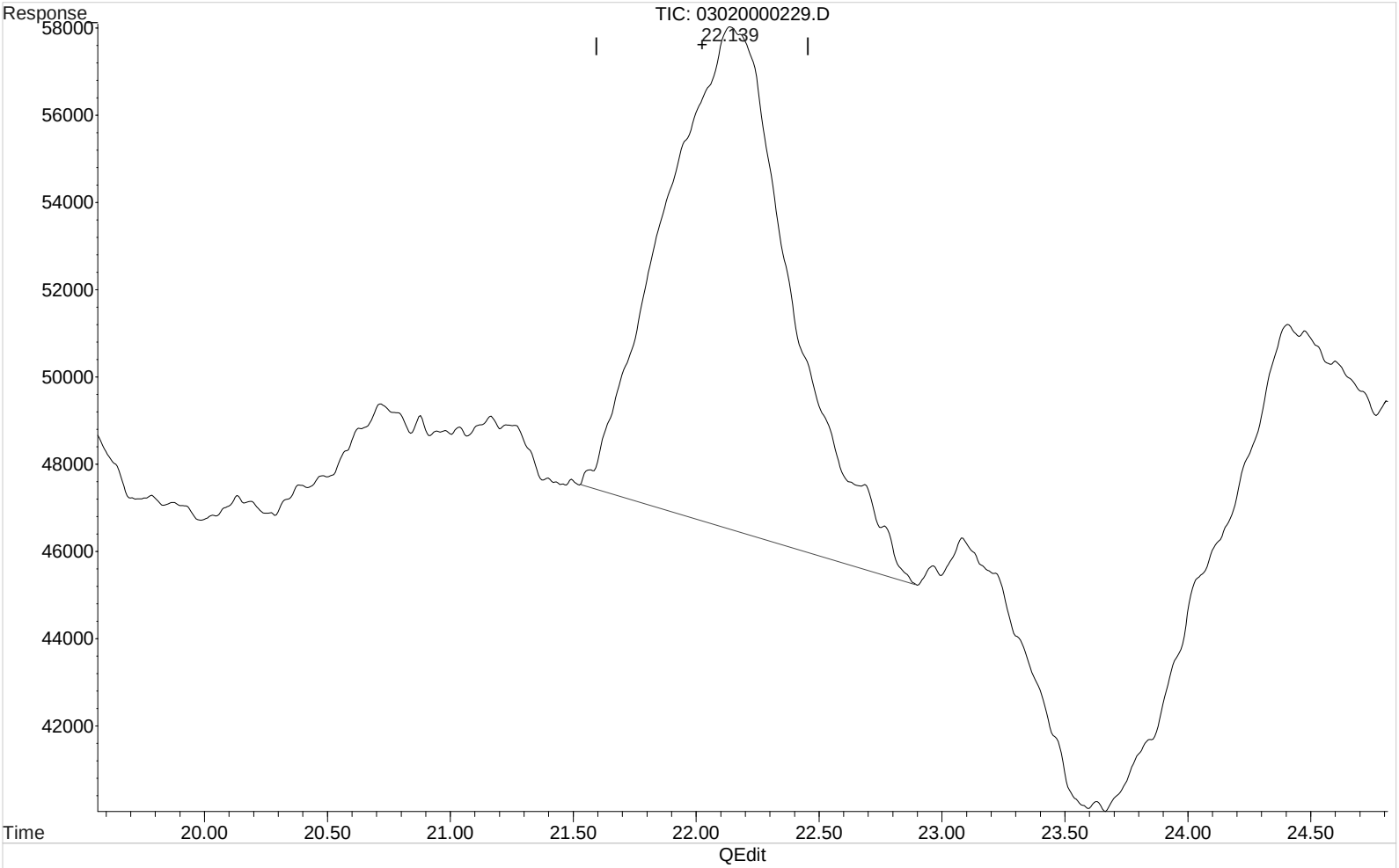
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000229.D Vial: 23
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 04:54:32 Operator: BR
Sample : K1701351-001 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:17 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.139min 7.042 ug/L m

response 417140

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

(b) (6)

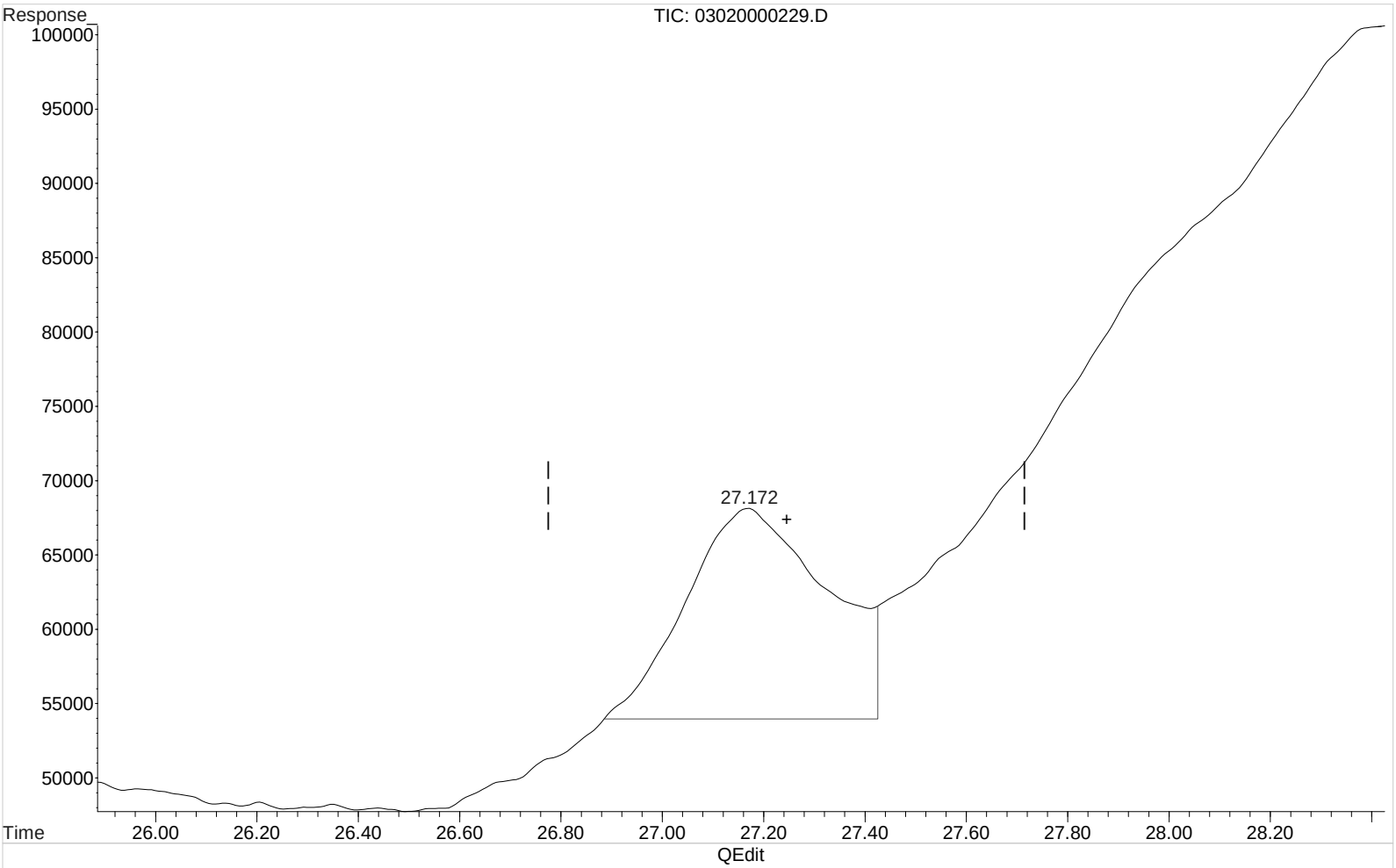
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000229.D Vial: 23
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 04:54:32 Operator: BR
Sample : K1701351-001 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:17 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(17) 3-NT (T)

27.172min 13.713 ug/L

response 276118

Manual Integration:

Before

03/08/17

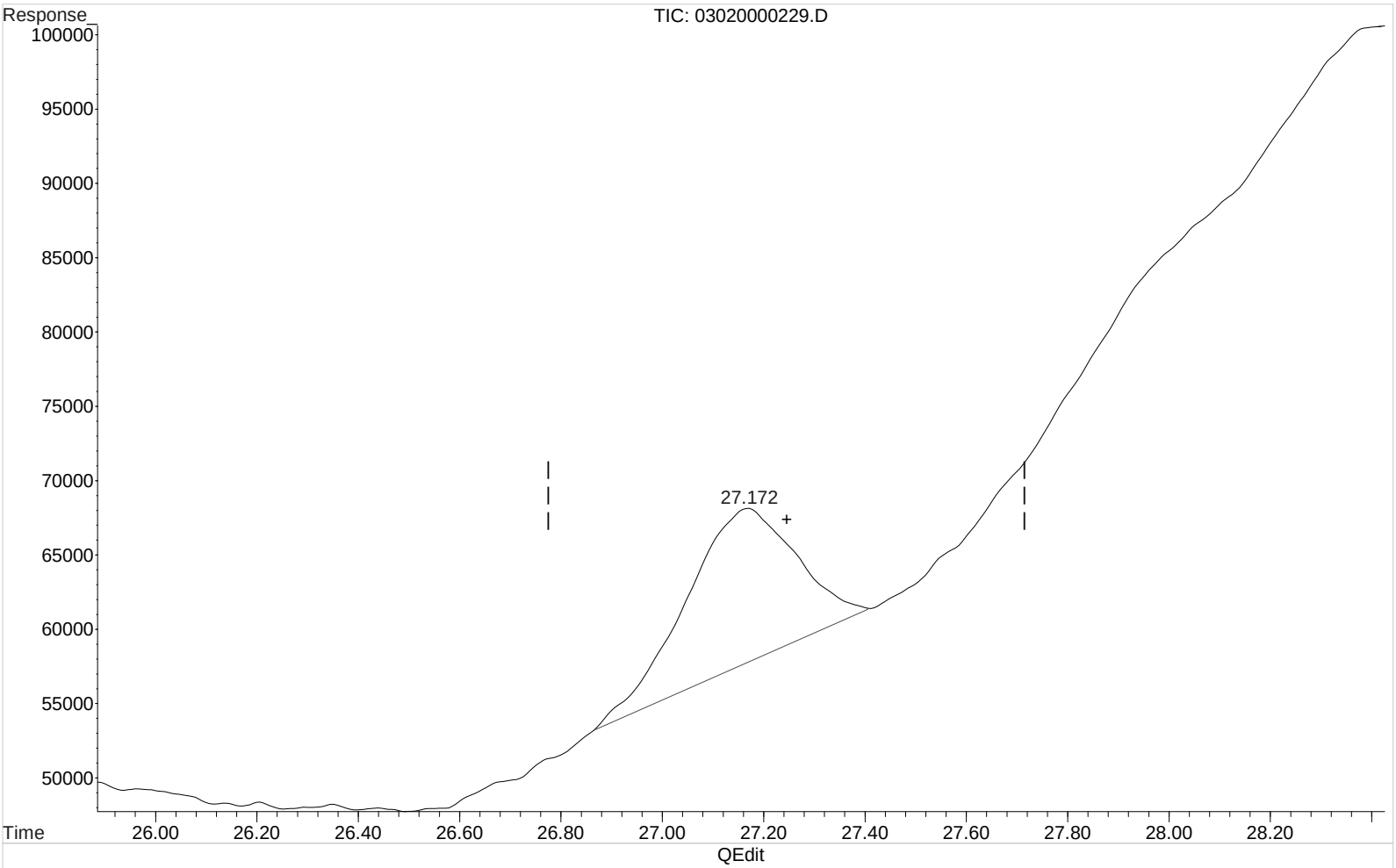
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000229.D Vial: 23
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 04:54:32 Operator: BR
Sample : K1701351-001 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:17 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(17) 3-NT (T)

27.172min 7.921 ug/L m

response 159505

Manual Integration:

After

BLC

03/08/17

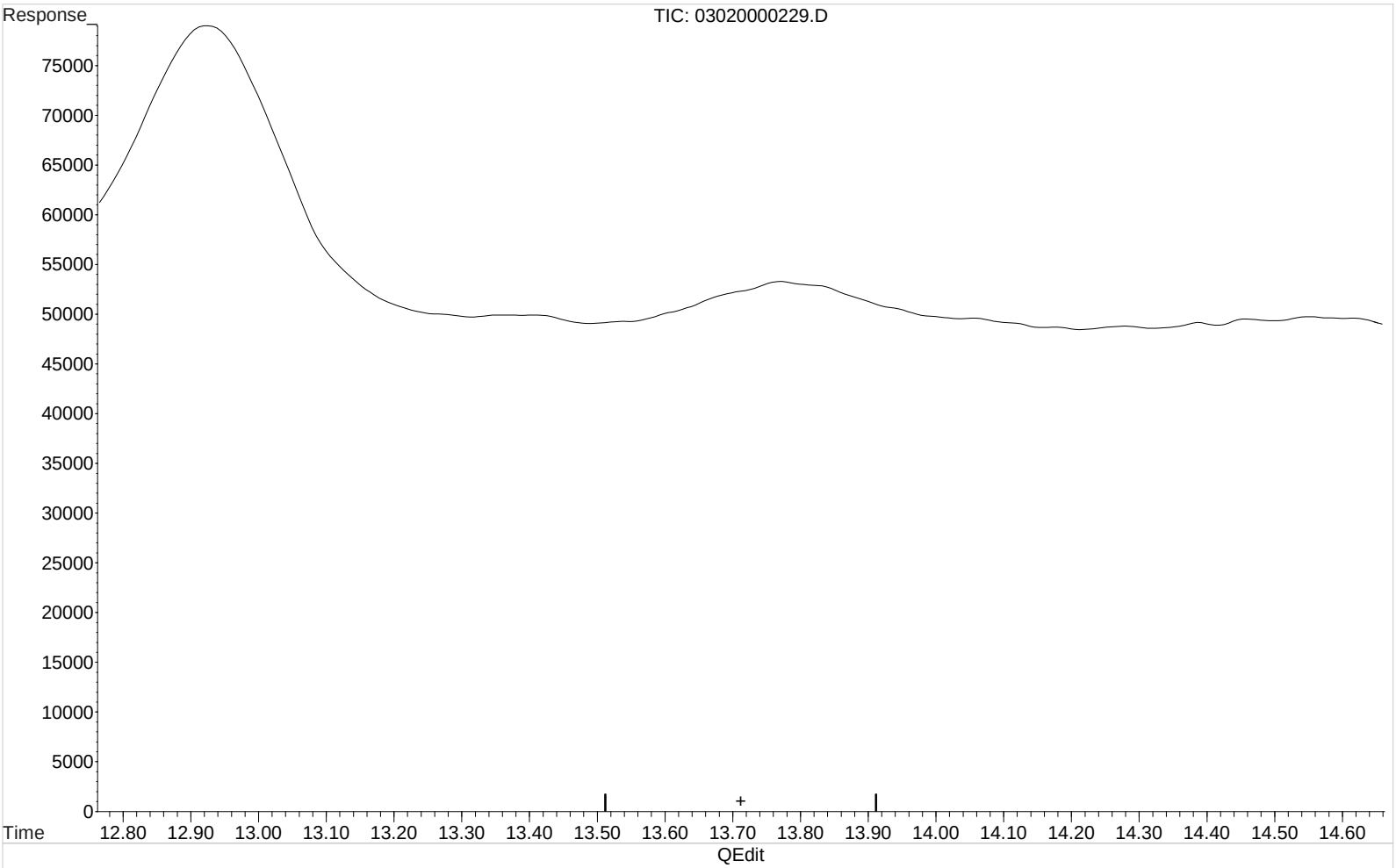
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000229.D Vial: 23
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 04:54:32 Operator: BR
Sample : K1701351-001 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:17 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(6) 1,3-DNB (T)

13.712min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

(+) = Expected Retention Time

(b) (6)

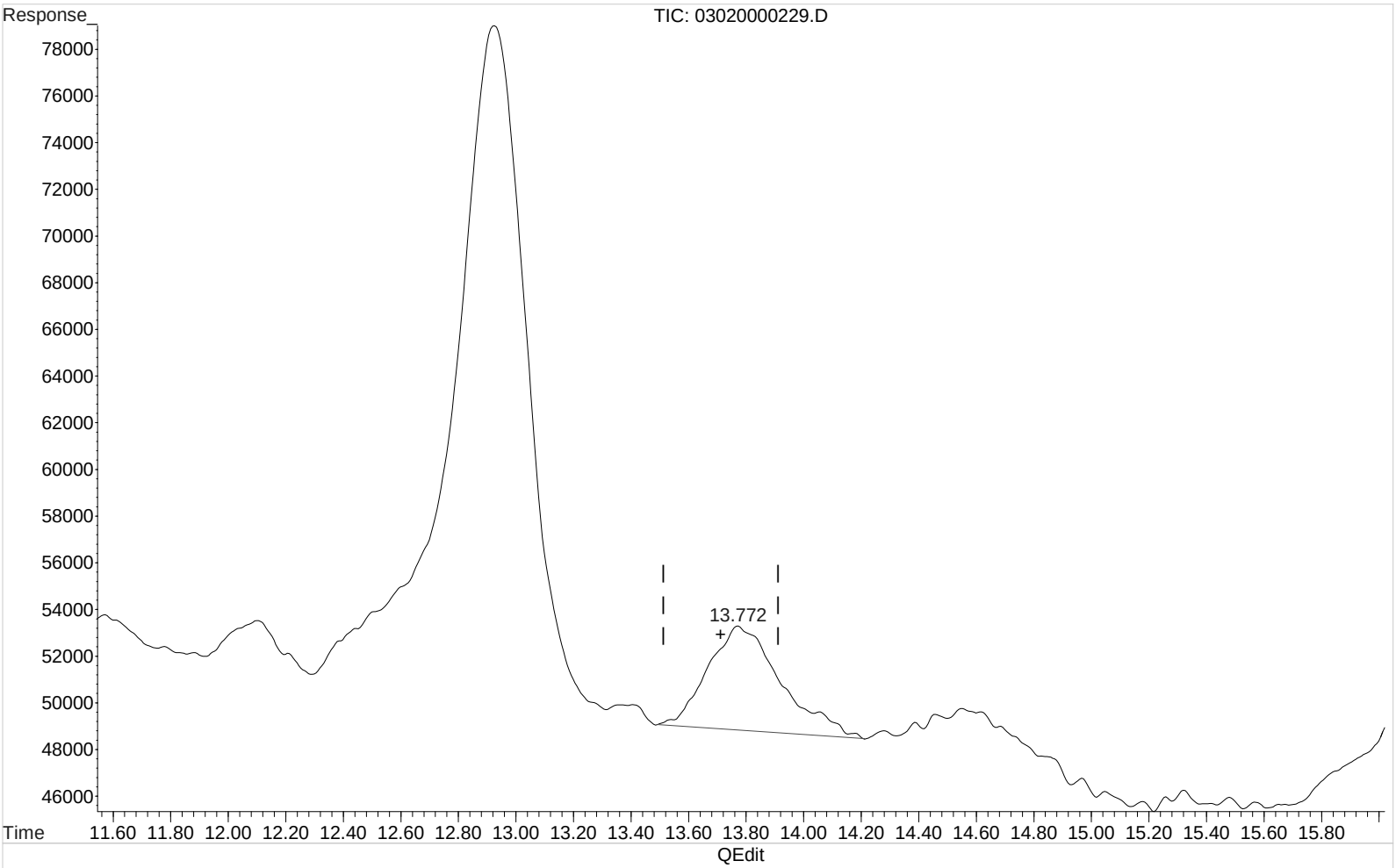
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000229.D Vial: 23
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 04:54:32 Operator: BR
Sample : K1701351-001 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:17 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(6) 1,3-DNB (T)

13.772min 1.299 ug/L m

response 78305

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

120716_8330B@254.M Wed Mar 08 16:06:08 2017

(b) (6)

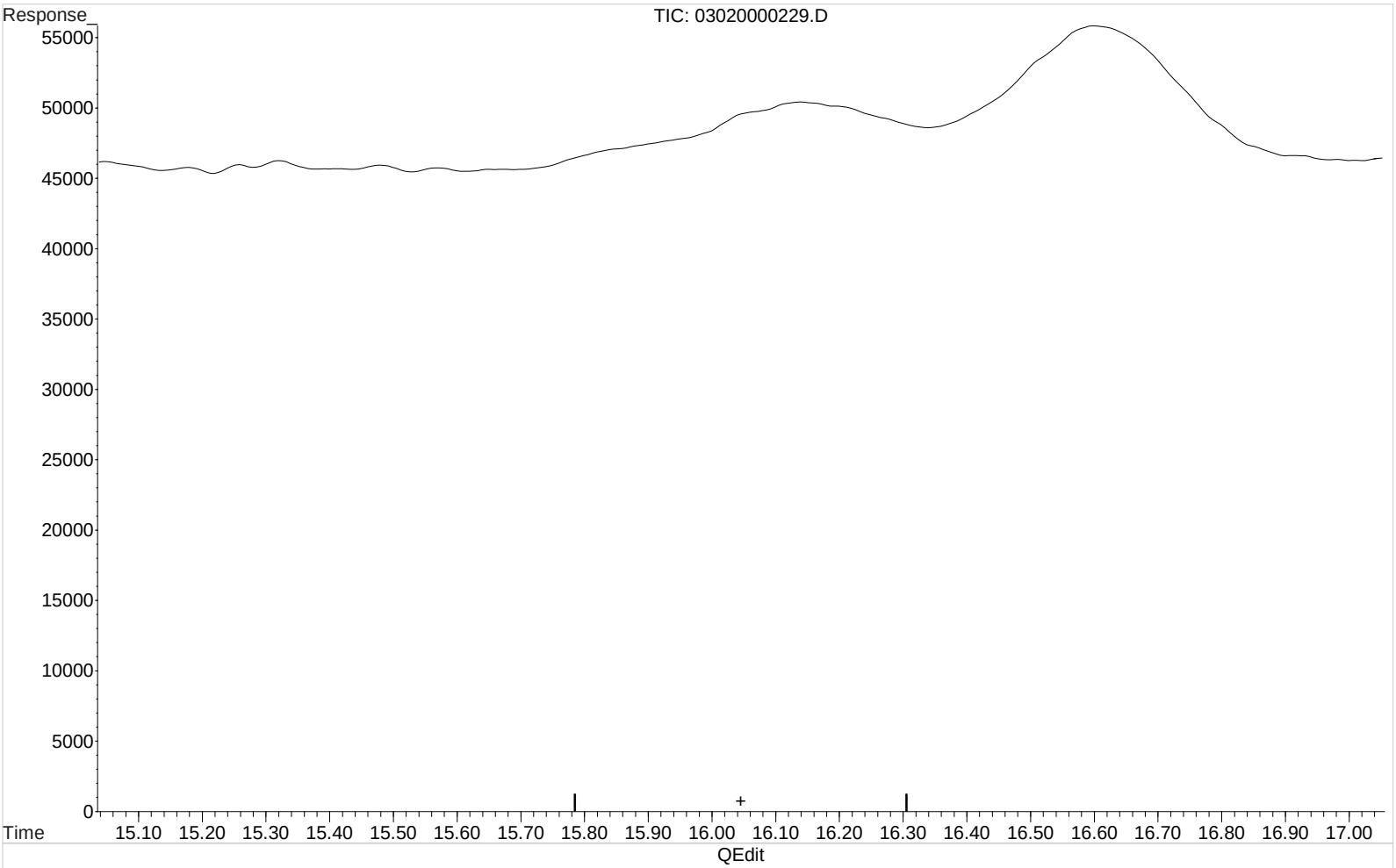
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000229.D Vial: 23
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 04:54:32 Operator: BR
Sample : K1701351-001 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:17 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.045min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

(+) = Expected Retention Time

(b) (6)

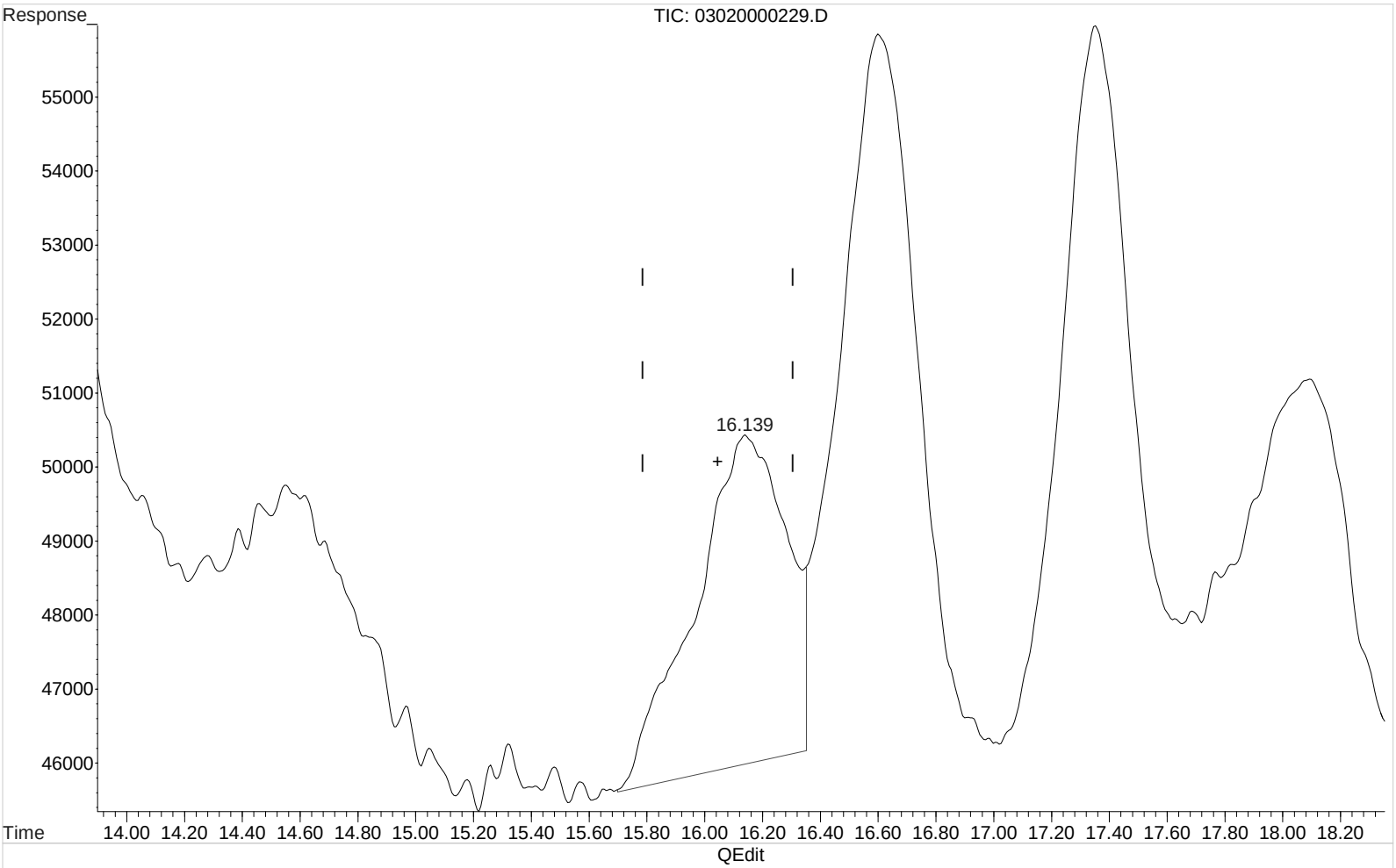
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000229.D Vial: 23
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 04:54:32 Operator: BR
Sample : K1701351-001 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:17 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.139min 2.554 ug/L m

response 98612

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000229.
Lab ID: K1701351-001
RunType: SMPL
Matrix: SOIL

Date Acquired: 03/03/2017 04:54
Date Quantitated: 03/08/2017 13:56
Batch ID: KWG1701860
Analysis Method: 8330B
ListJoinID: LJ15912

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000229.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 04:54	**Quant Date:**	03/08/2017 13:56	**Vial:**	23
Run Type:	SMPL	**ListJoinID:**	LJ14468	**Dilution:**	1.0
Lab ID:	K1701351-001			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/07/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587763	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ14468
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_210\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.68	0.07	132458006**m**	2,329	47	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.57	0.04	913425	43.82	0.059	U	
Pentaerythritol Tetranitrate			0**d**		0.12	U	

Prep Amount:	10.004 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99.1 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000229.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 04:54	**Quant Date:**	03/08/2017 13:56	**Vial:**	23
Run Type:	SMPL	**ListJoinID:**	LJ15912	**Dilution:**	1.0
Lab ID:	K1701351-001			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/07/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587763	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ15912
		Method ID:	MJ1432
MB Ref:	J:\LC10\DATA\030317_8330_210\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.68	0.07	132458006**m**	2,329	47	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.57	0.04	913425	43.82	0.059	U	
Pentaerythritol Tetranitrate			0**d**		0.12	U	

Prep Amount:	10.004 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99.1 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000229.D Vial: 23
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 04:54:32 Operator: BR
Sample : K1701351-001 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 13:56:37 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.679	132458006	2329.471	ug/L	m
Target Compounds						
1) T	Nitroglycerin	16.572	913425	43.816	ug/L	
2) T	PETN	0.000	0	N.D.	ug/L	d

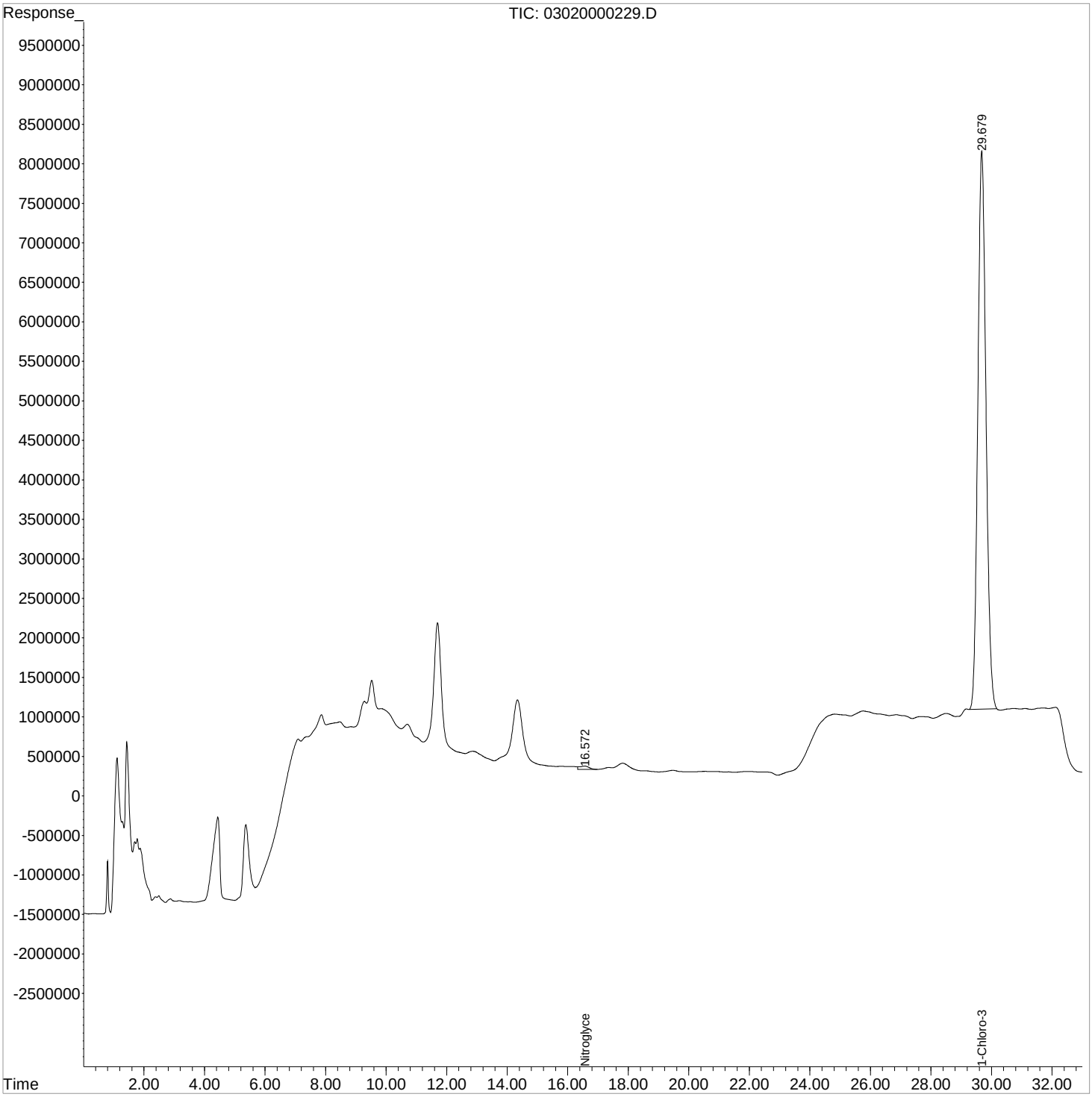
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000229.D Vial: 23
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 04:54:32 Operator: BR
Sample : K1701351-001 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 13:56:37 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

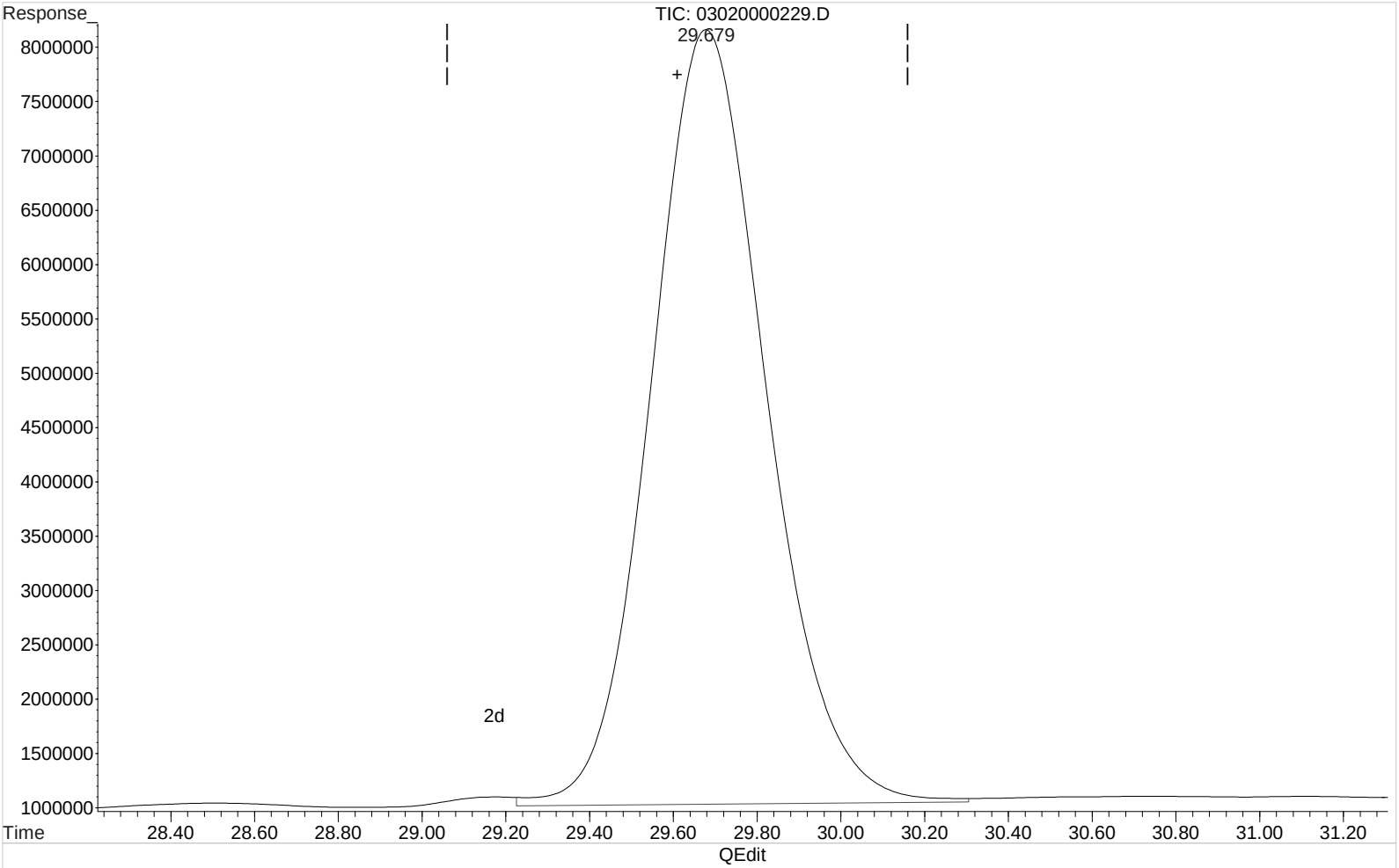


Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000229.D Vial: 23
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 04:54:32 Operator: BR
Sample : K1701351-001 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:55:24 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.679min 2399.861 ug/L

response 136460536

Manual Integration:

Before

03/08/17

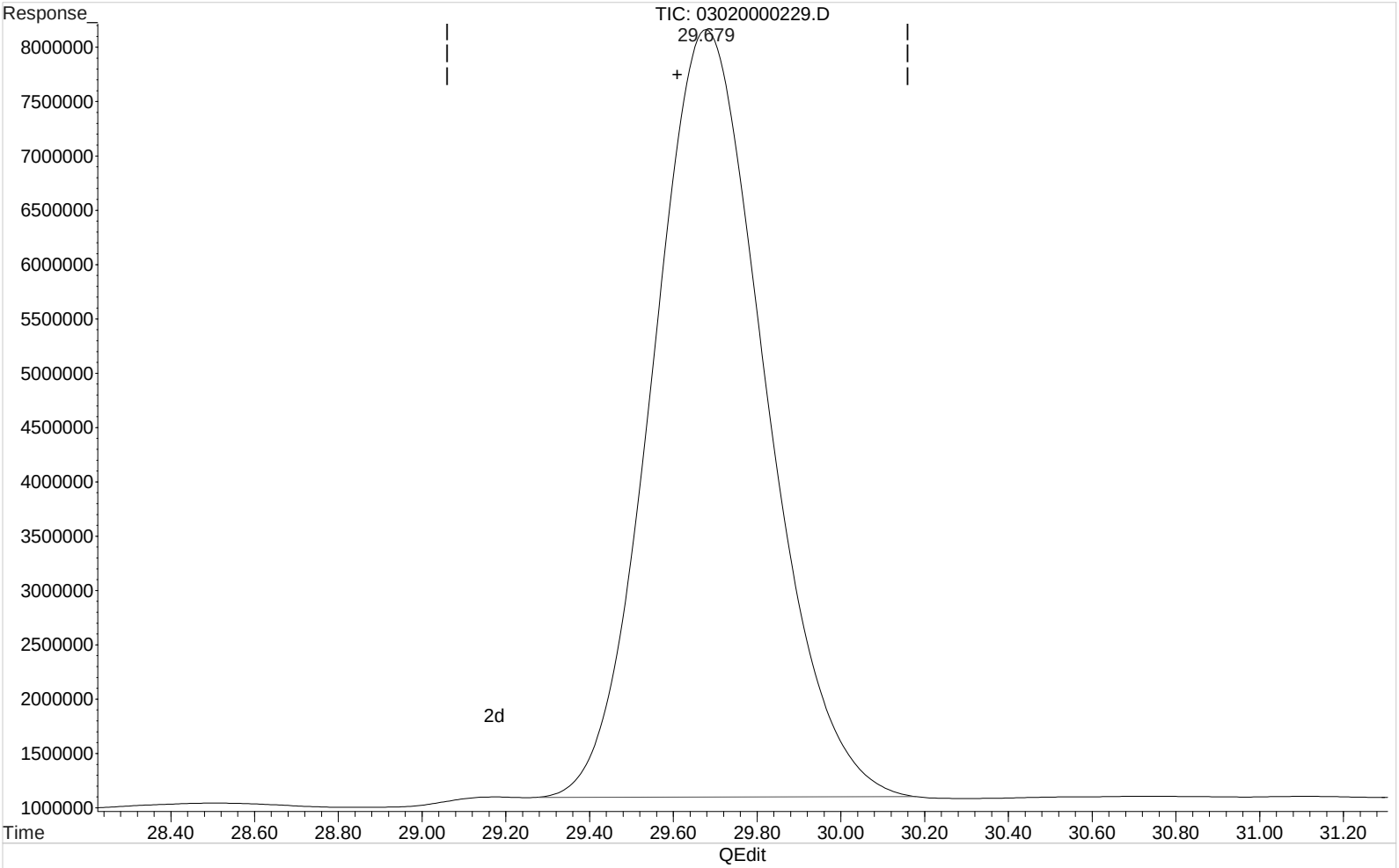
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000229.D Vial: 23
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 04:54:32 Operator: BR
Sample : K1701351-001 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:55:24 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.679min 2329.471 ug/L m

response 132458006

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000212.
Lab ID: K1701351-002
RunType: SMPL
Matrix: SOIL

Date Acquired: 03/02/2017 18:38
Date Quantitated: 03/09/2017 15:53
Batch ID: KWG1701858
Analysis Method: 8330B
ListJoinID: LJ15912

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000212.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 18:38	**Quant Date:**	03/09/2017 15:53	**Vial:**	10
Run Type:	SMPL	**ListJoinID:**	LJ14468	**Dilution:**	1.0
Lab ID:	K1701351-002			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/07/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701858	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587764	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ14468
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_254\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.62	0.02	61829159	2,861	57	34-135	OK	

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0		0.0065	U	
RDX			0		0.050	U	
1,3,5-Trinitrobenzene	10.44		523304	11.72	0.028	U	
1,3-Dinitrobenzene	13.54	-0.21	413134**m**	6.85	0.013	U	
TETRYL			0		0.042	U	
Nitrobenzene			0		0.0045	U	
2,4,6-Trinitrotoluene			0		0.019	U	
4-Amino-2,6-dinitrotoluene			0		0.0052	U	
2-Amino-4,6-dinitrotoluene			0		0.0076	U	
2,6-Dinitrotoluene			0		0.0052	U	
2,4-Dinitrotoluene			0		0.042	U	
2-Nitrotoluene			0		0.0072	U	
4-Nitrotoluene			0		0.019	U	
3-Nitrotoluene	27.11	-0.17	402265**m**	19.98	0.019	U	

Prep Amount:	10.015 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000212.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 18:38:36 Operator: BR
Sample : K1701351-002 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 09 15:53:51 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
18) S	1-Chloro-3-Nitrobenzene	29.616	61829159	2861.246	ug/L	
	Target Compounds					
1) T	2,6-Diamino-4-nitroto...	4.336f	171653	NoCal	ug/L	
2) T	HMX	0.000	0	N.D.	ug/L	
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4) T	RDX	0.000	0	N.D.	ug/L	
5) T	1,3,5-TNB	10.442	523304	11.716	ug/L	
6) T	1,3-DNB	13.536f	413134	6.853	ug/L	m
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L	
8) T	Tetryl	0.000	0	N.D.	ug/L	
9) T	Nitrobenzene	0.000	0	N.D.	ug/L	
10) T	2,4,6-TNT	0.000	0	N.D.	ug/L	
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L	
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L	
13) T	2,6-DNT	0.000	0	N.D.	ug/L	
14) T	2,4-DNT	0.000	0	N.D.	ug/L	
15) T	2-NT	0.000	0	N.D.	ug/L	
16) T	4-NT	0.000	0	N.D.	ug/L	
17) T	3-NT	27.109	402265	19.977	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] 03/14/17
(g) (g) 03/29/17

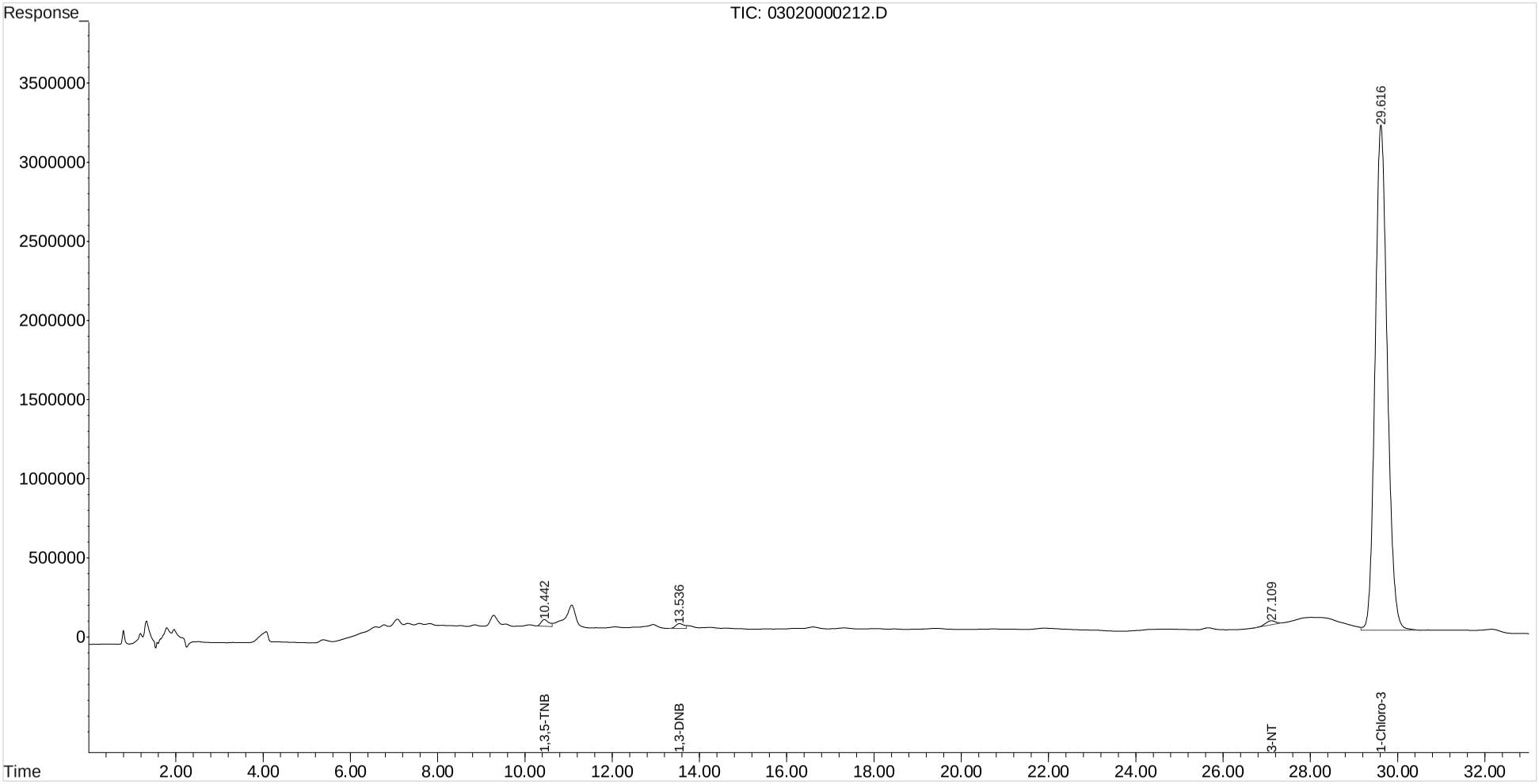
11/01/2018

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000212.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 18:38:36 Operator: BR
Sample : K1701351-002 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 09 15:53:51 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



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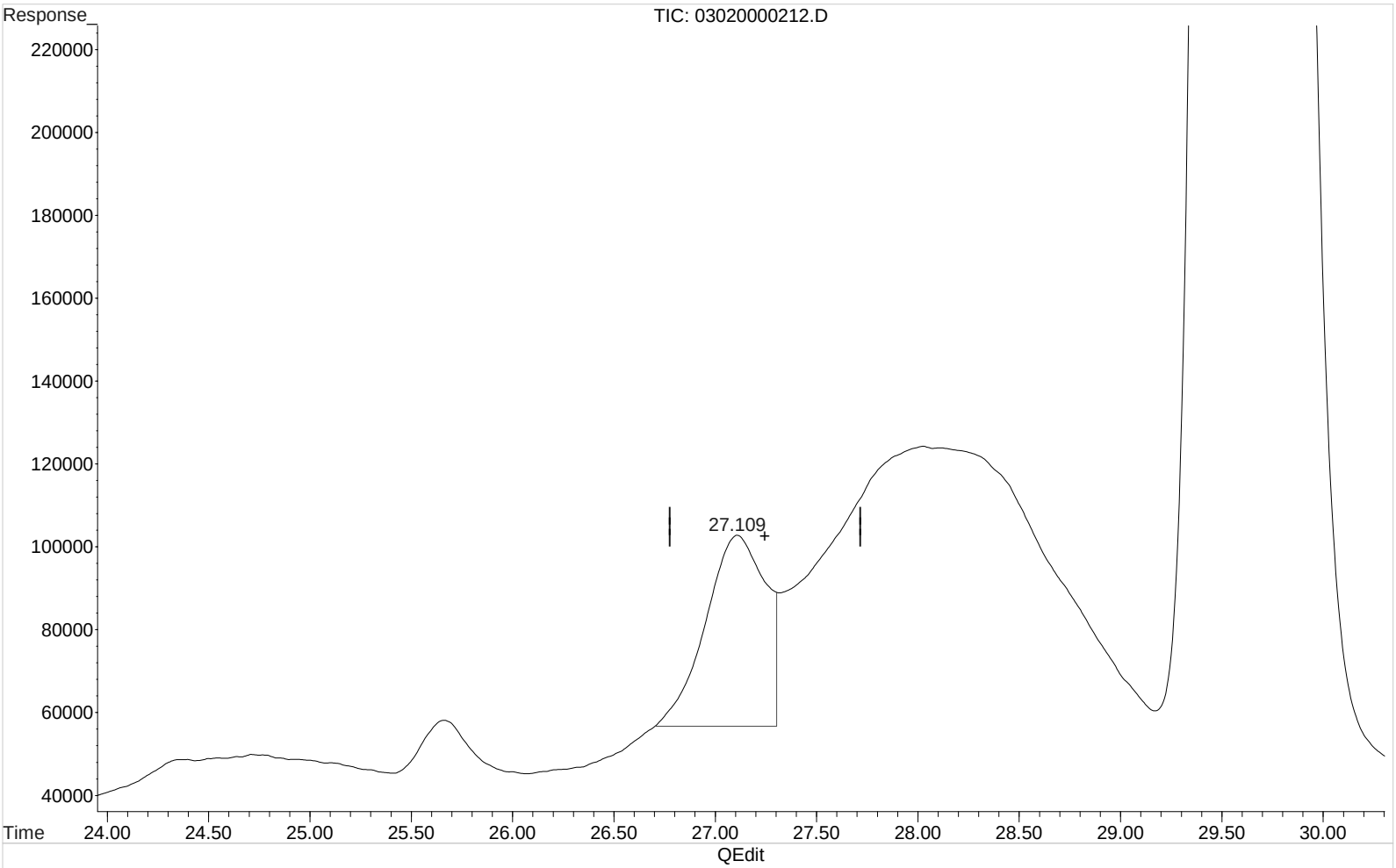
011937

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000212.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 18:38:36 Operator: BR
Sample : K1701351-002 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:43 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.109min 47.447 ug/L

response 955401

Manual Integration:

Before

03/09/17

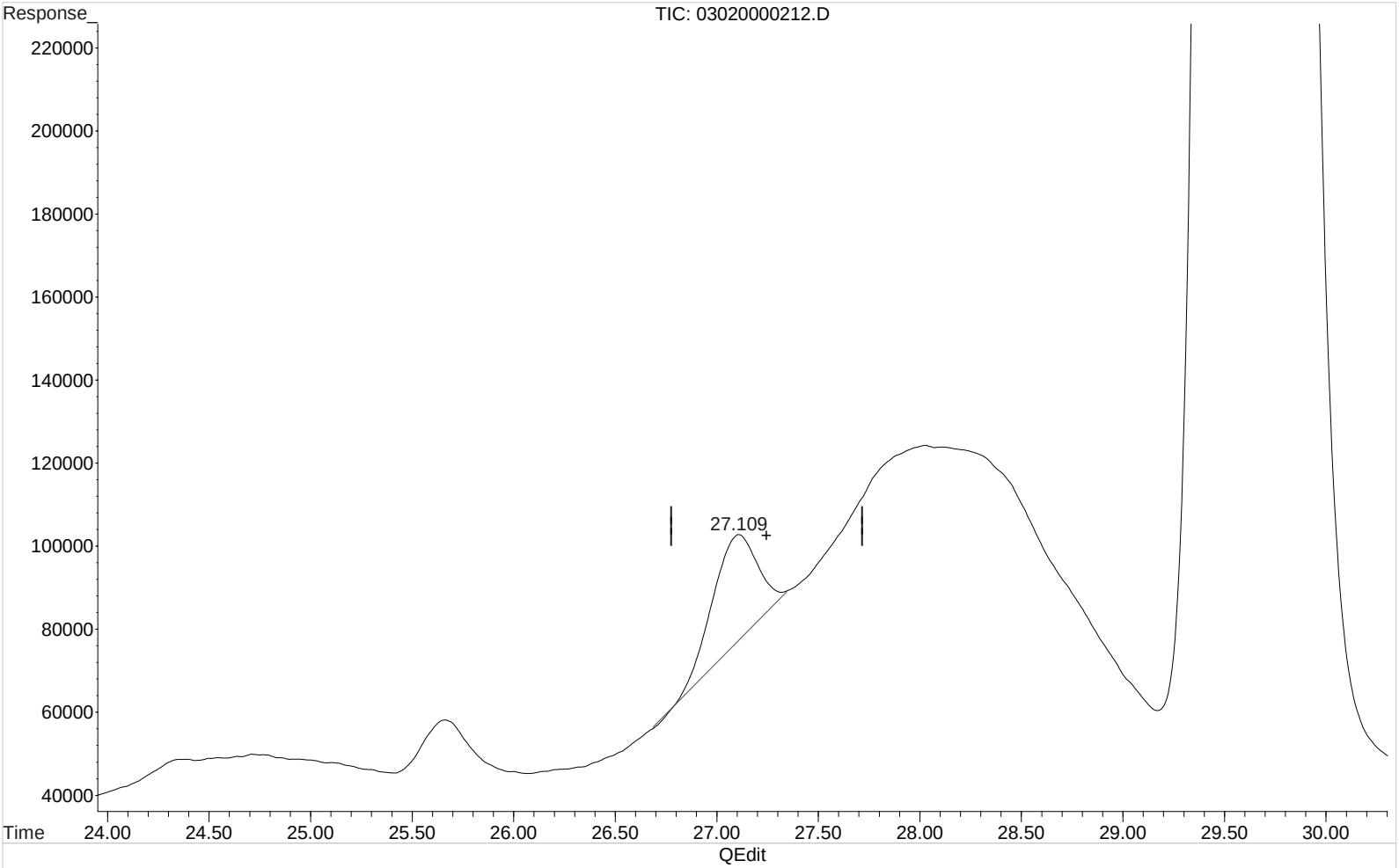
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000212.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 18:38:36 Operator: BR
Sample : K1701351-002 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:43 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.109min 19.977 ug/L m

response 402265

Manual Integration:

After

Baseline/Shoulder

03/09/17

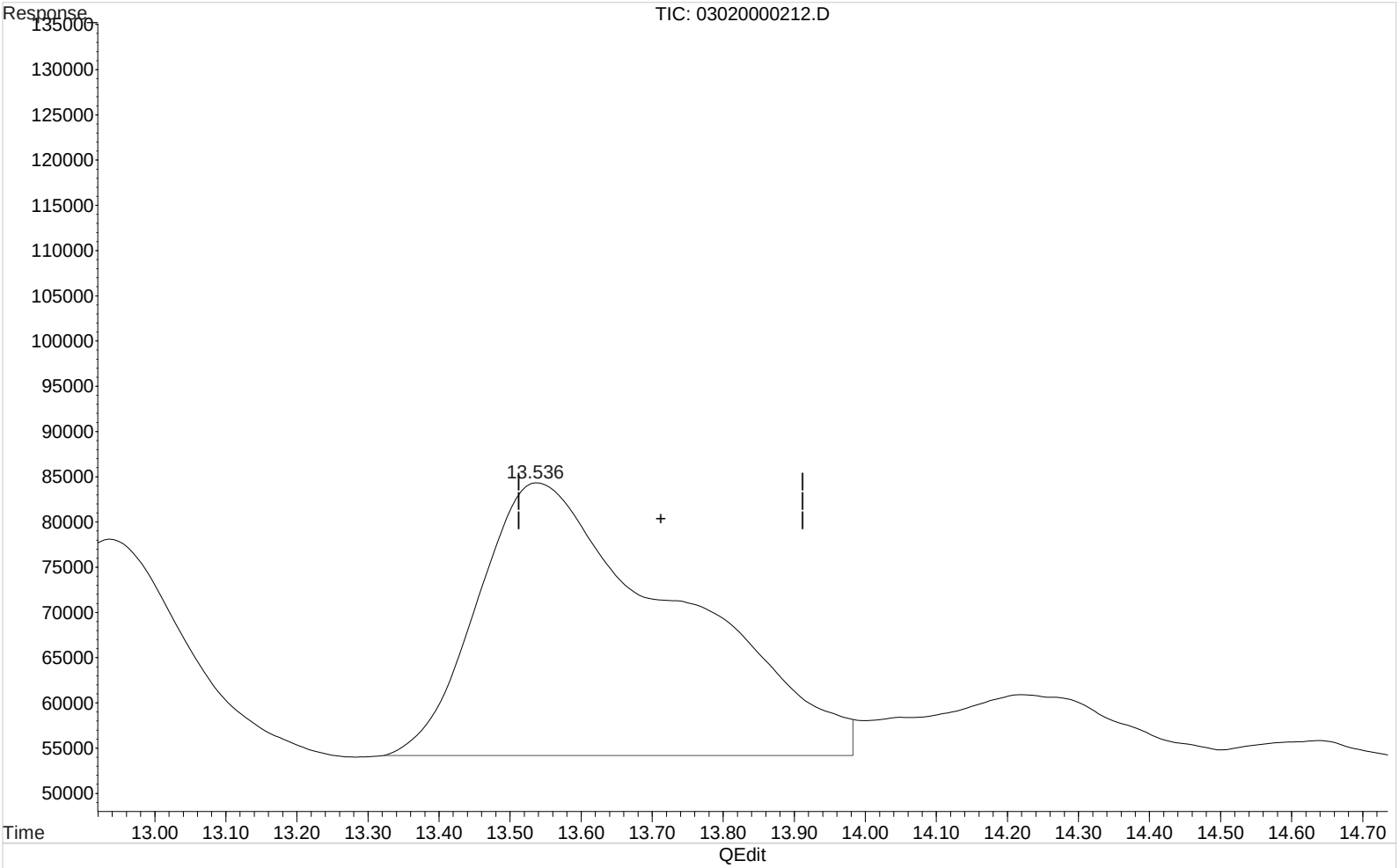
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000212.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 18:38:36 Operator: BR
Sample : K1701351-002 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:43 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(6) 1,3-DNB (T)

13.536min 9.856 ug/L

response 594144

Manual Integration:

Before

03/09/17

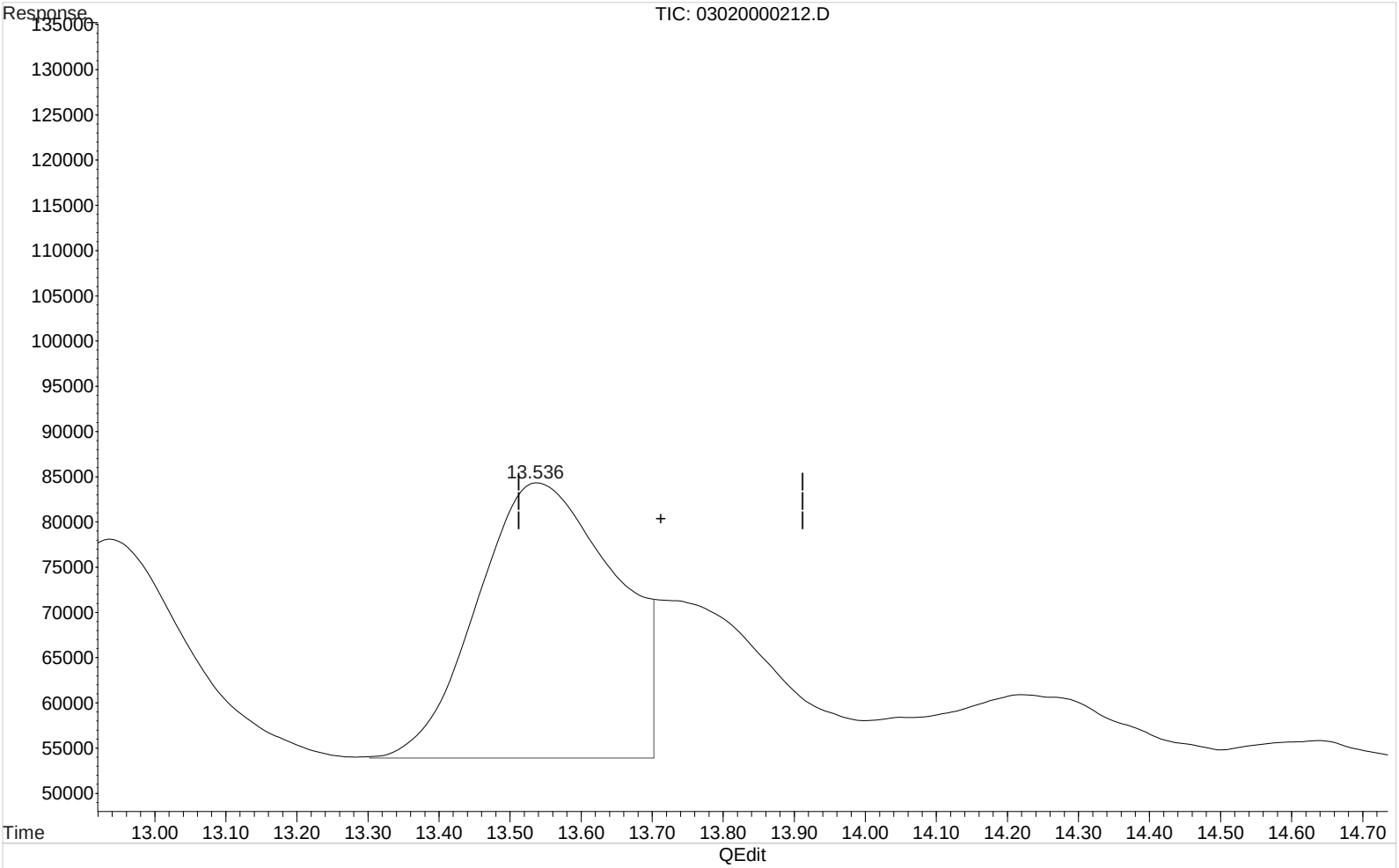
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000212.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 18:38:36 Operator: BR
Sample : K1701351-002 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:43 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(6) 1,3-DNB (T)

13.536min 6.853 ug/L m

response 413134

Manual Integration:

After

Baseline/Shoulder

03/09/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000212.
Lab ID: K1701351-002
RunType: SMPL
Matrix: SOIL

Date Acquired: 03/02/2017 18:38
Date Quantitated: 03/07/2017 16:30
Batch ID: KWG1701860
Analysis Method: 8330B
ListJoinID: LJ15912

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000212.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 18:38	**Quant Date:**	03/07/2017 16:30	**Vial:**	10
Run Type:	SMPL	**ListJoinID:**	LJ14468	**Dilution:**	1.0
Lab ID:	K1701351-002			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/07/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587764	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ14468
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_210\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.62	0.02	161872374**m**	2,847	57	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.56	0.08	1434313**m**	68.80	0.059	U	
Pentaerythritol Tetranitrate			0**d**		0.12	U	

Prep Amount:	10.015 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000212.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 18:38	**Quant Date:**	03/07/2017 16:30	**Vial:**	10
Run Type:	SMPL	**ListJoinID:**	LJ15912	**Dilution:**	1.0
Lab ID:	K1701351-002			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/07/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587764	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ15912
		Method ID:	MJ1432
MB Ref:	J:\LC10\DATA\030317_8330_210\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.62	0.02	161872374**m**	2,847	57	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.56	0.08	1434313**m**	68.80	0.059	U	
Pentaerythritol Tetranitrate			0**d**		0.12	U	

Prep Amount:	10.015 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000212.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 18:38:36 Operator: BR
Sample : K1701351-002 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 07 16:30:32 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.616	161872374	2846.766	ug/L	m
Target Compounds						
1) T	Nitroglycerin	16.556	1434313	68.803	ug/L	m
2) T	PETN	0.000	0	N.D.	ug/L	d

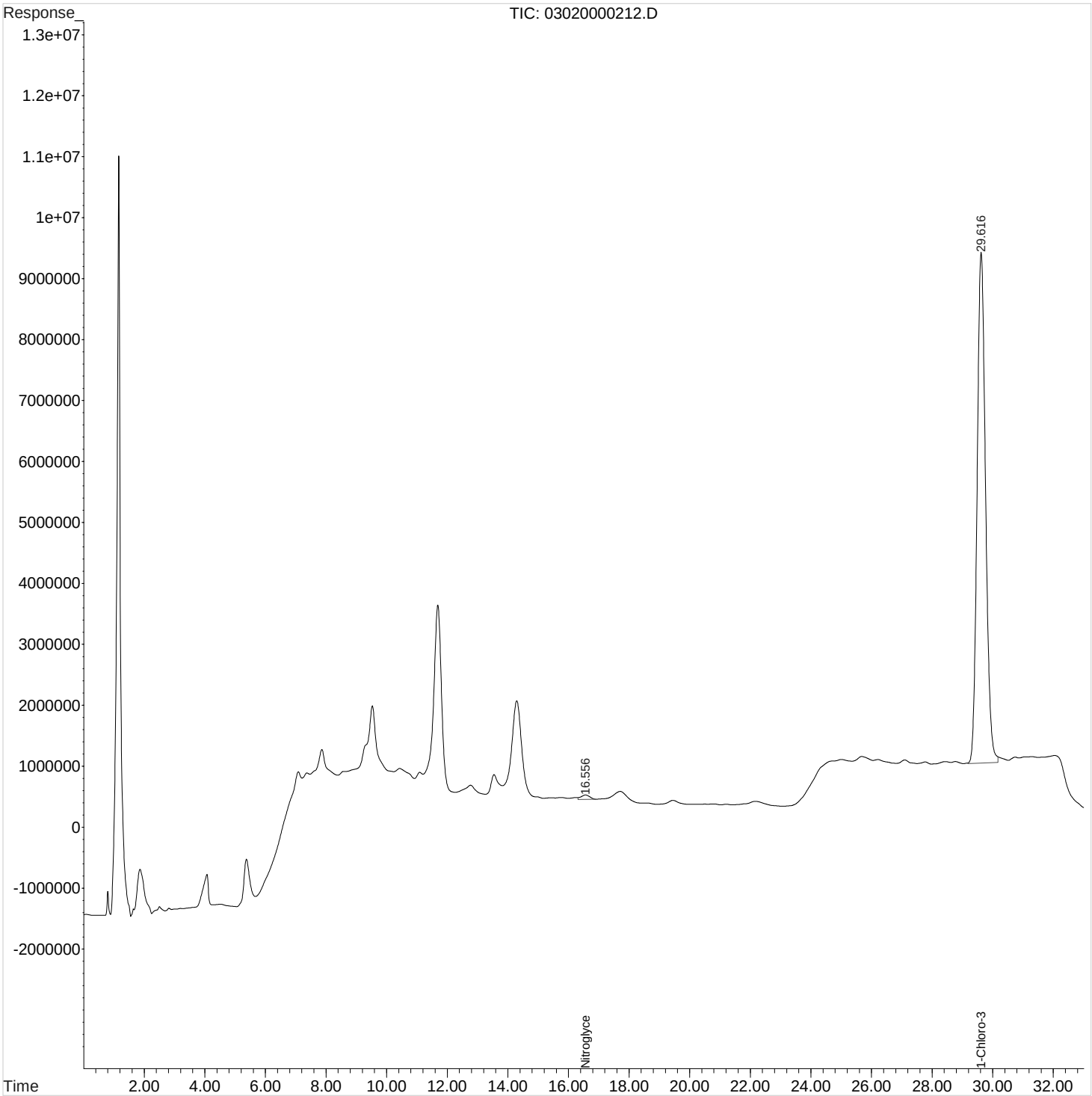
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000212.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 18:38:36 Operator: BR
Sample : K1701351-002 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 07 16:30:32 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

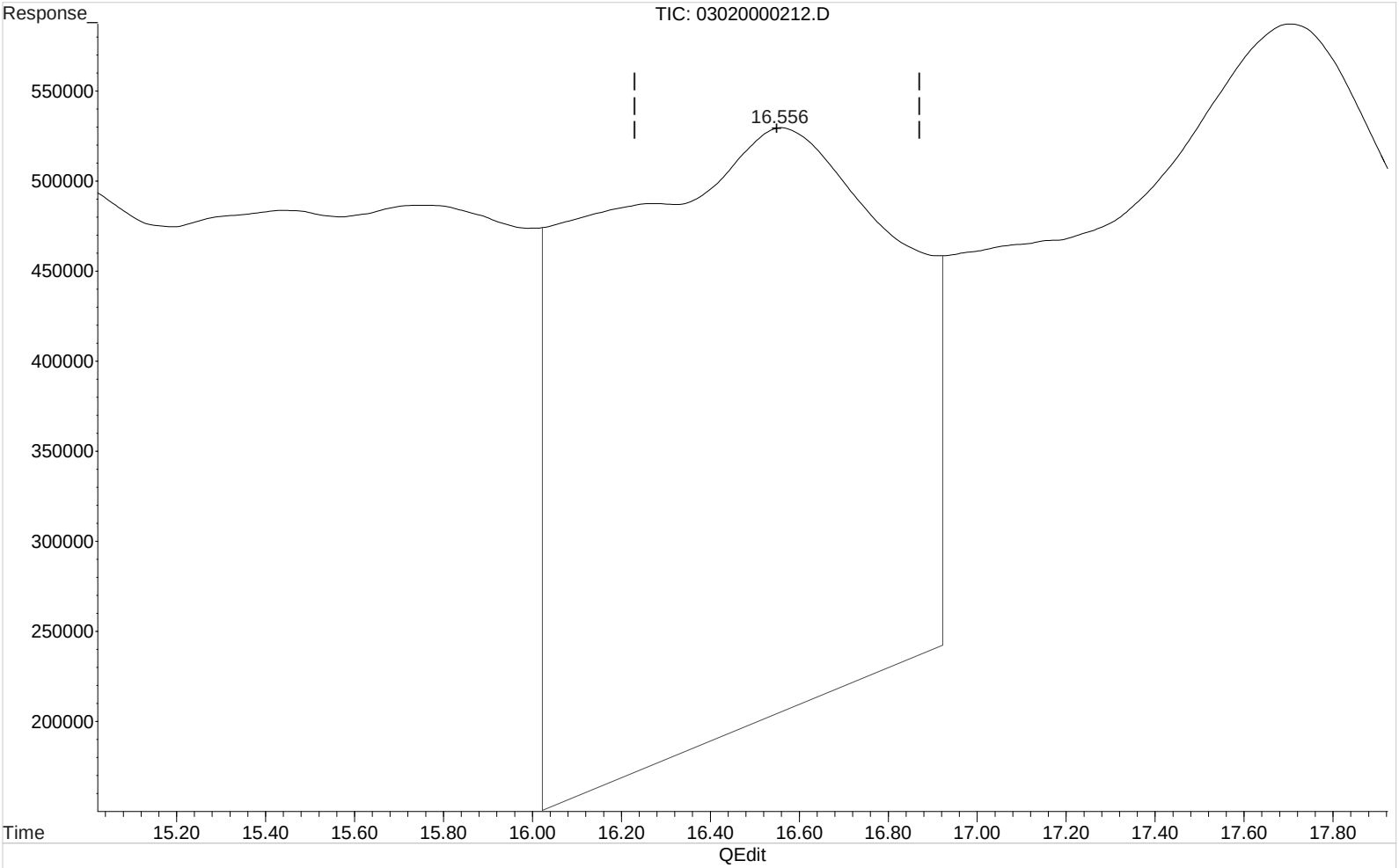


Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000212.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 18:38:36 Operator: BR
Sample : K1701351-002 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:23:49 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.556min 765.443 ug/L

response 15956946

Manual Integration:

Before

03/07/17

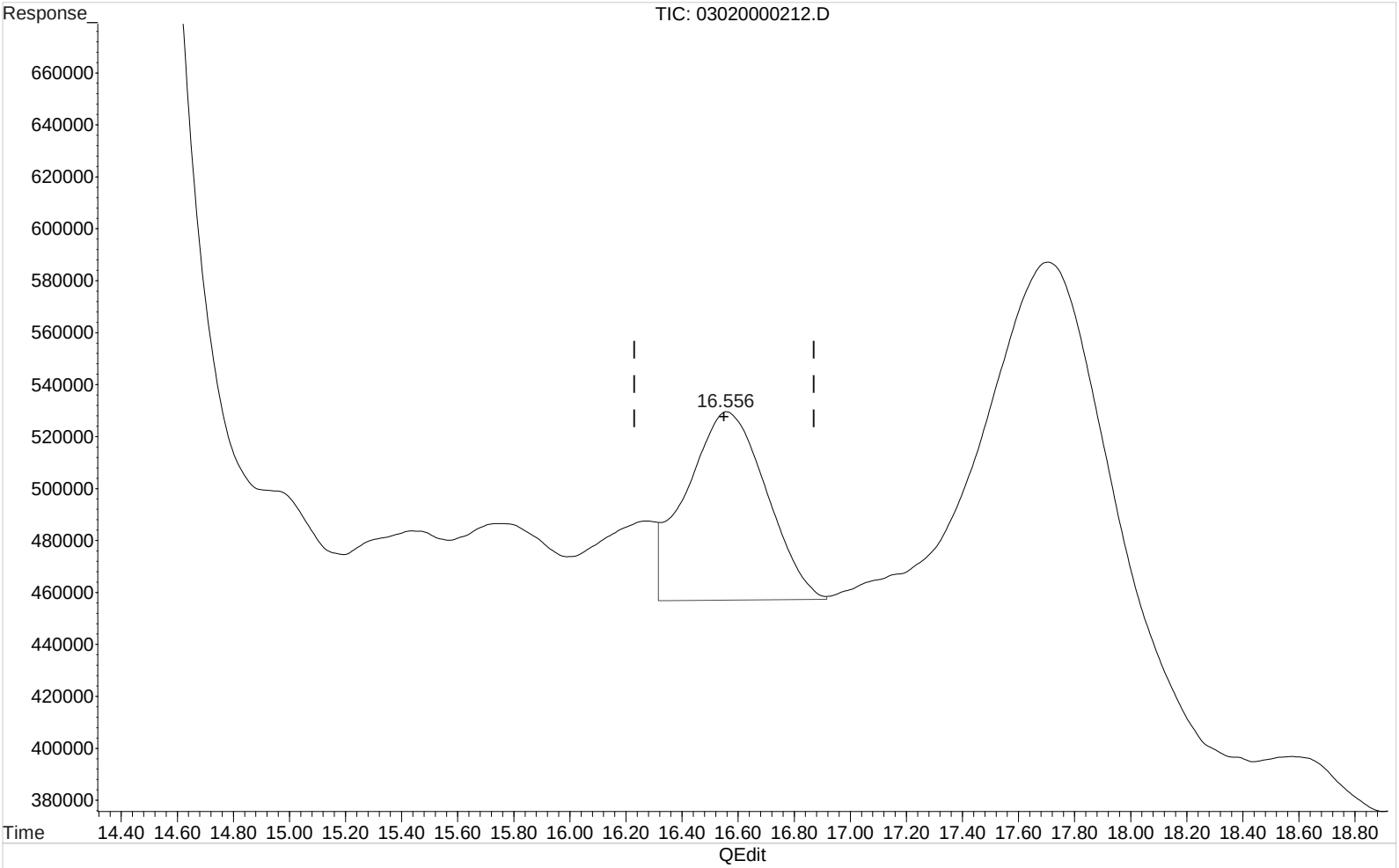
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000212.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 18:38:36 Operator: BR
Sample : K1701351-002 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:23:49 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.556min 68.803 ug/L m

response 1434313

Manual Integration:

After

Baseline/Shoulder

03/07/17

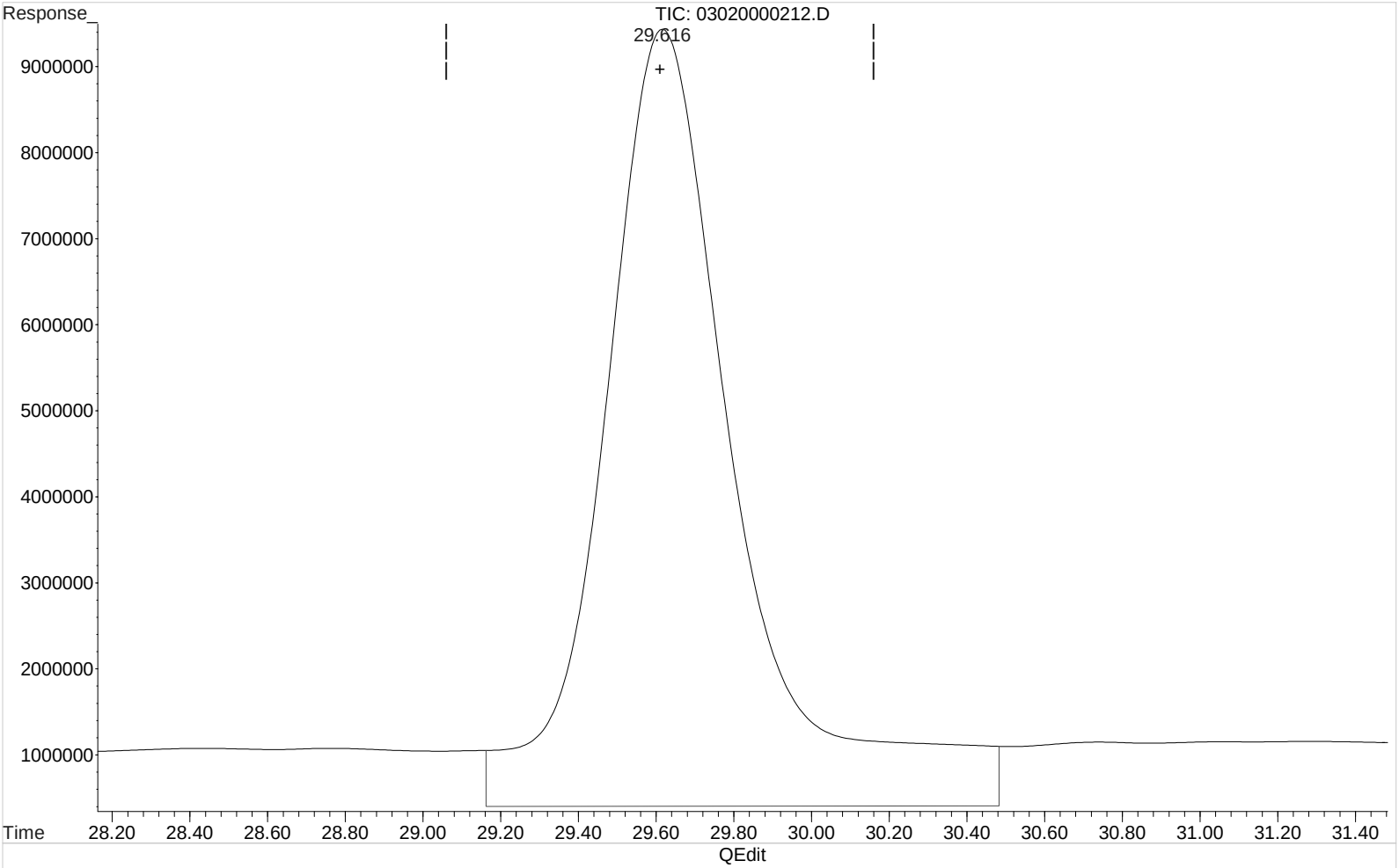
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000212.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 18:38:36 Operator: BR
Sample : K1701351-002 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 14:59:58 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.616min 3773.894 ug/L

response 214590596

Manual Integration:

Before

03/06/17

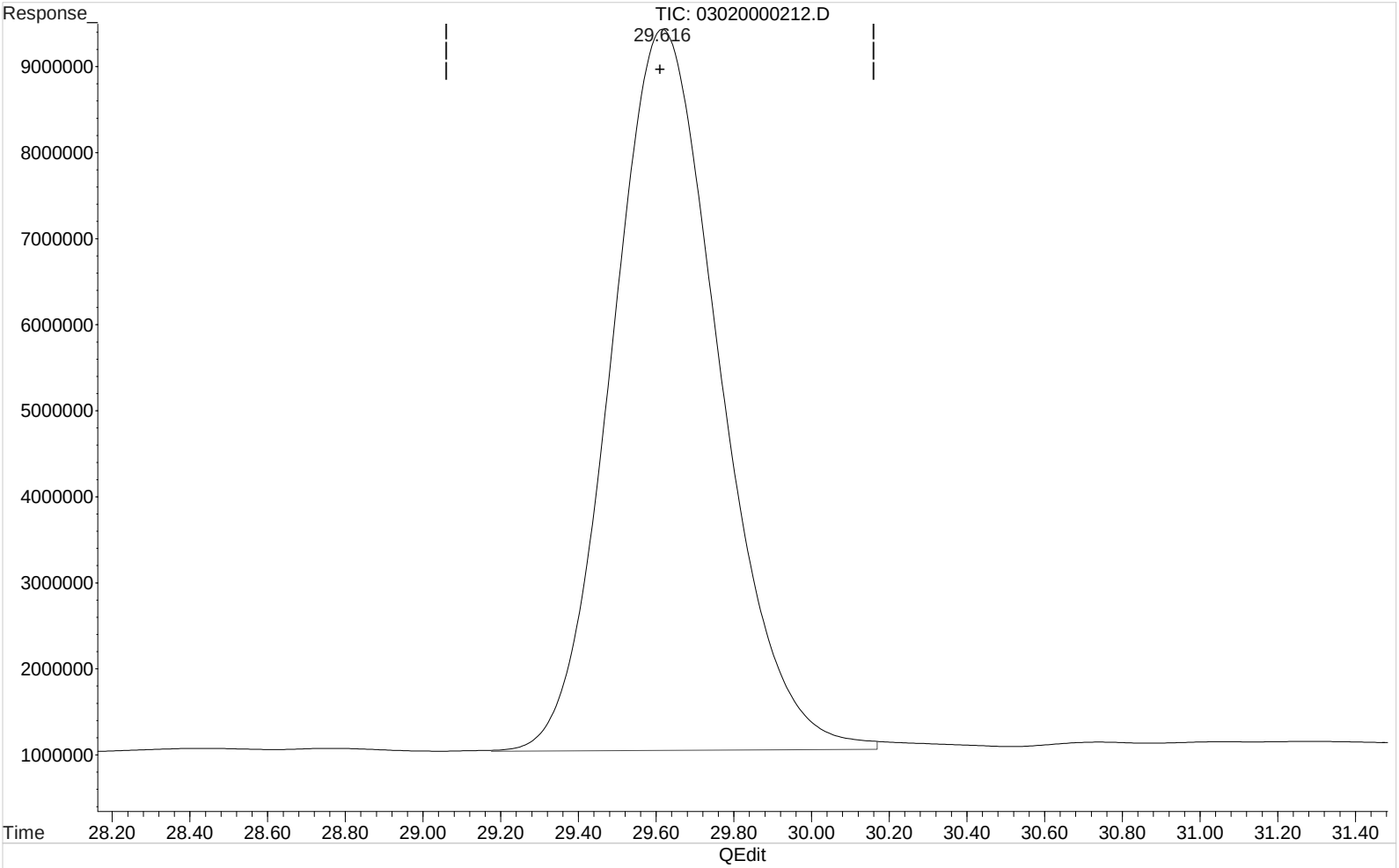
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000212.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 18:38:36 Operator: BR
Sample : K1701351-002 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 14:59:58 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

29.616min 2846.766 ug/L m

response 161872374

Manual Integration:

After

BLC

03/06/17

(+) = Expected Retention Time

120716_8330B@210.M Mon Mar 06 15:23:52 2017

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000213.
Lab ID: K1701351-003
RunType: SMPL
Matrix: SOIL

Date Acquired: 03/02/2017 19:14
Date Quantitated: 03/09/2017 15:56
Batch ID: KWG1701858
Analysis Method: 8330B
ListJoinID: LJ15912

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000213.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 19:14	**Quant Date:**	03/09/2017 15:56	**Vial:**	11
Run Type:	SMPL	**ListJoinID:**	LJ14468	**Dilution:**	1.0
Lab ID:	K1701351-003			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/08/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701858	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587765	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ14468
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_254\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.63	0.03	94893161	4,391	88	34-135	OK	

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX	4.69	-0.07	20083**m**	1.68	0.0065	U	
RDX			0**d**		0.050	U	
1,3,5-Trinitrobenzene			0		0.028	U	
1,3-Dinitrobenzene	13.72	-0.03	163337**m**	2.71	0.013	U	
TETRYL			0		0.042	U	
Nitrobenzene	16.17	0.09	62835**m**	1.63	0.0045	U	
2,4,6-Trinitrotoluene	17.31	0.02	122611**m**	2.94	0.019	U	
4-Amino-2,6-dinitrotoluene	19.33	0.27	411269**m**	13.94	0.011	J	
2-Amino-4,6-dinitrotoluene	20.07	0.17	321291**m**	7.66	0.0076	U	
2,6-Dinitrotoluene			0		0.0052	U	
2,4-Dinitrotoluene			0**d**		0.042	U	
2-Nitrotoluene			0**d**		0.0072	U	
4-Nitrotoluene			0		0.019	U	
3-Nitrotoluene	27.10	-0.18	200186**m**	9.94	0.019	U	

Prep Amount:	10.078 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99.1 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000213.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 19:14:50 Operator: BR
Sample : K1701351-003 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 09 15:56:29 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
18)	S	1-Chloro-3-Nitrobenzene	29.626	94893161	4391.336	ug/L	
		Target Compounds					
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	4.692f	20083	1.677	ug/L	m
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	0.000	0	N.D.	ug/L	d
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L	
6)	T	1,3-DNB	13.719	163337	2.710	ug/L	m
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L	
8)	T	Tetryl	0.000	0	N.D.	ug/L	
9)	T	Nitrobenzene	16.166	62835	1.627	ug/L	m
10)	T	2,4,6-TNT	17.306	122611	2.944	ug/L	m
11)	T	4-Amino-2,6-DNT	19.326f	411269	13.935	ug/L	m
12)	T	2-Amino-4,6-DNT	20.066f	321291	7.657	ug/L	m
13)	T	2,6-DNT	0.000	0	N.D.	ug/L	
14)	T	2,4-DNT	0.000	0	N.D.	ug/L	d
15)	T	2-NT	0.000	0	N.D.	ug/L	d
16)	T	4-NT	0.000	0	N.D.	ug/L	
17)	T	3-NT	27.099	200186	9.942	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

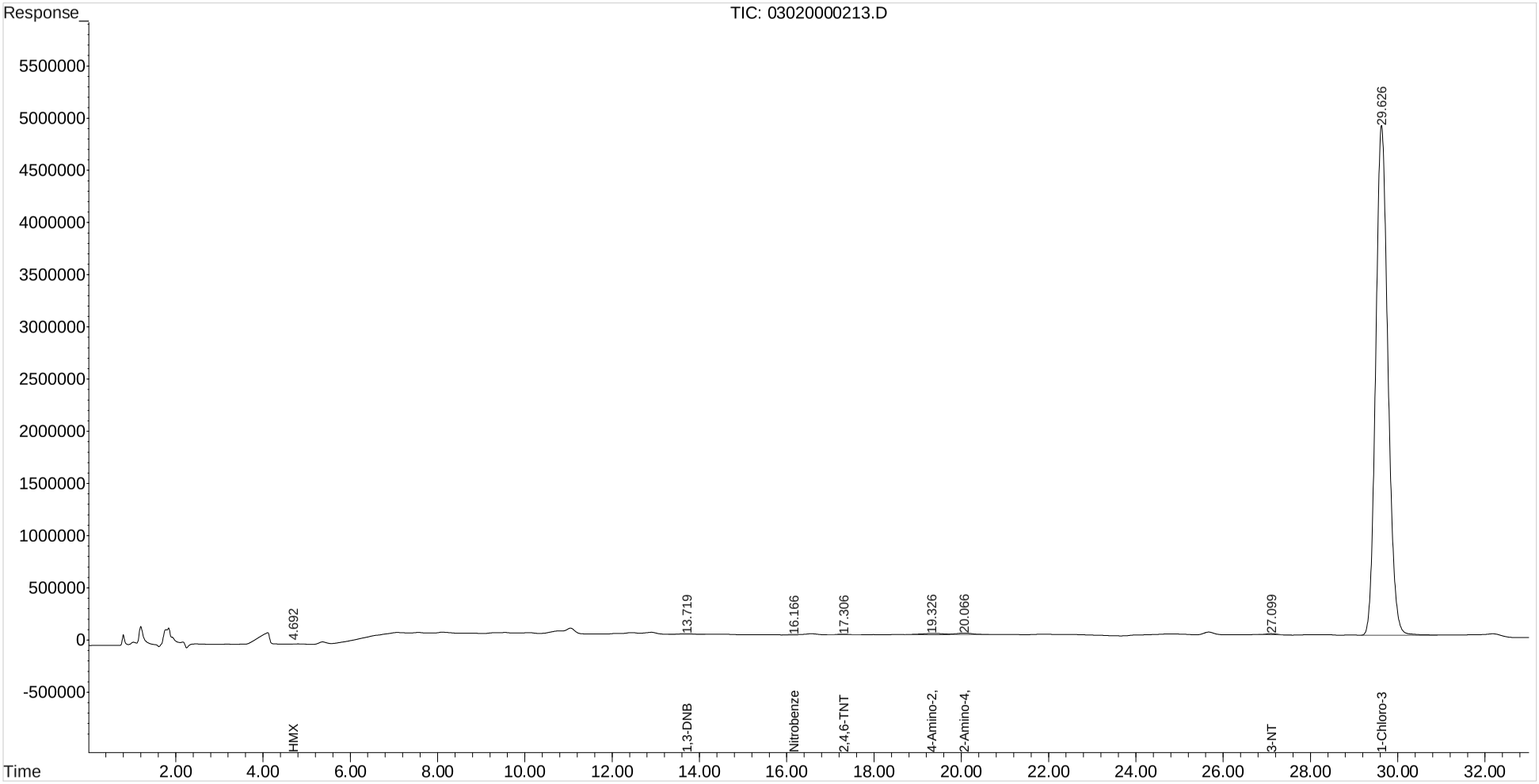
[redacted] (6) (6)
03/14/17
03/29/17

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000213.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 19:14:50 Operator: BR
Sample : K1701351-003 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 09 15:56:29 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

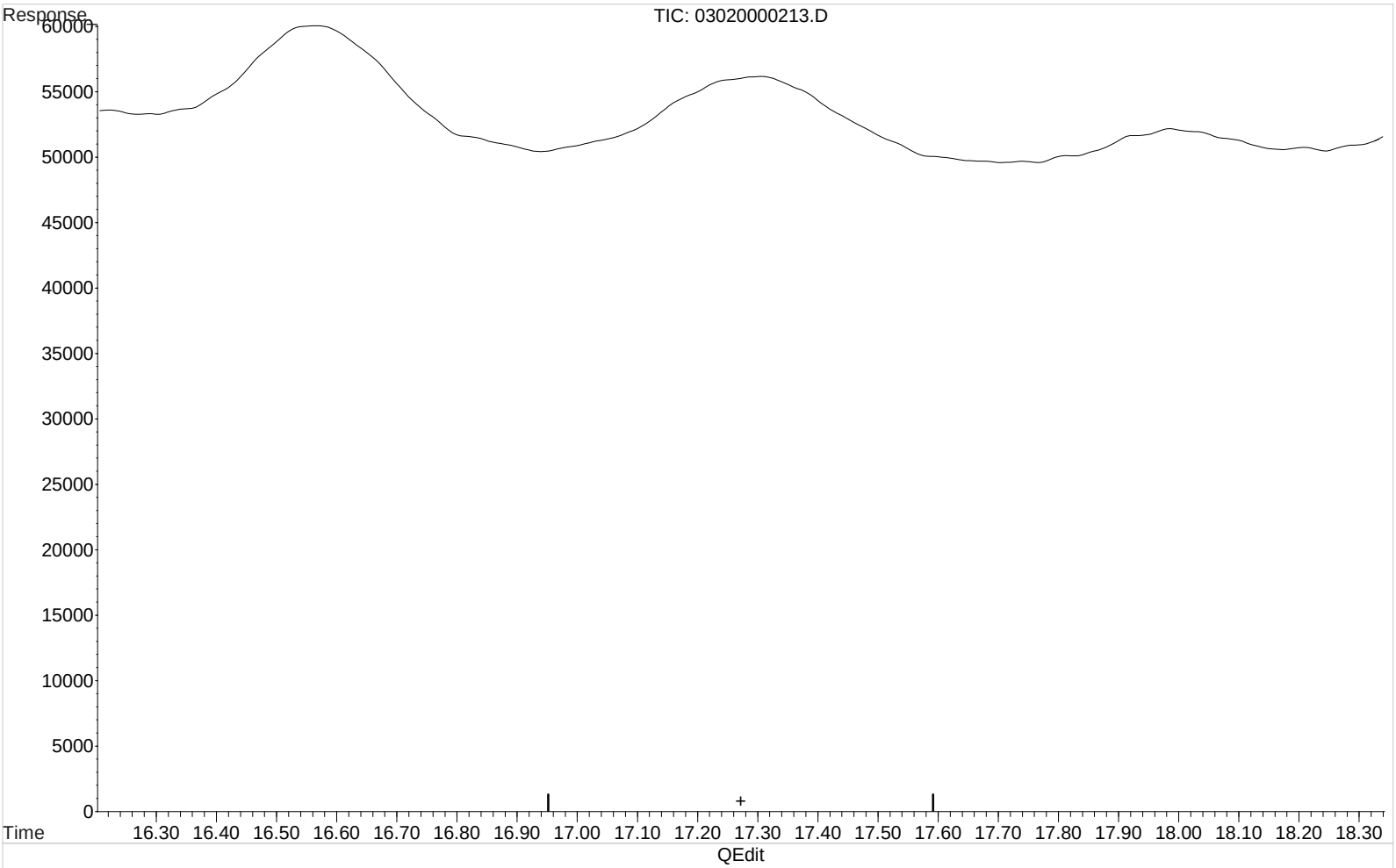


Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000213.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 19:14:50 Operator: BR
Sample : K1701351-003 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:46 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(10) 2,4,6-TNT (T)

17.272min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

(+) = Expected Retention Time

(b) (6)

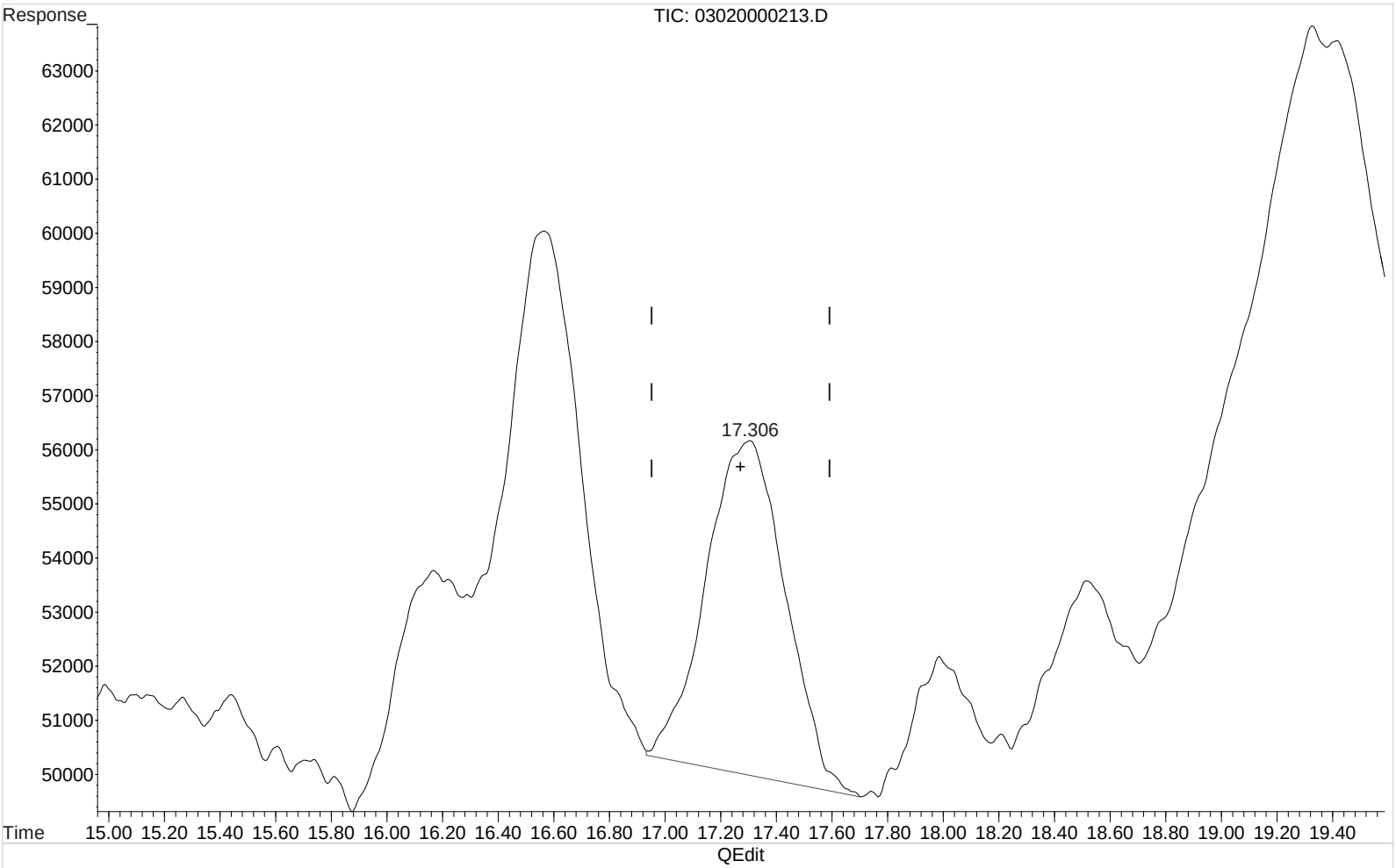
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000213.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 19:14:50 Operator: BR
Sample : K1701351-003 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:46 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(10) 2,4,6-TNT (T)

17.306min 2.944 ug/L m

response 122611

Manual Integration:

After

BLC

03/08/17

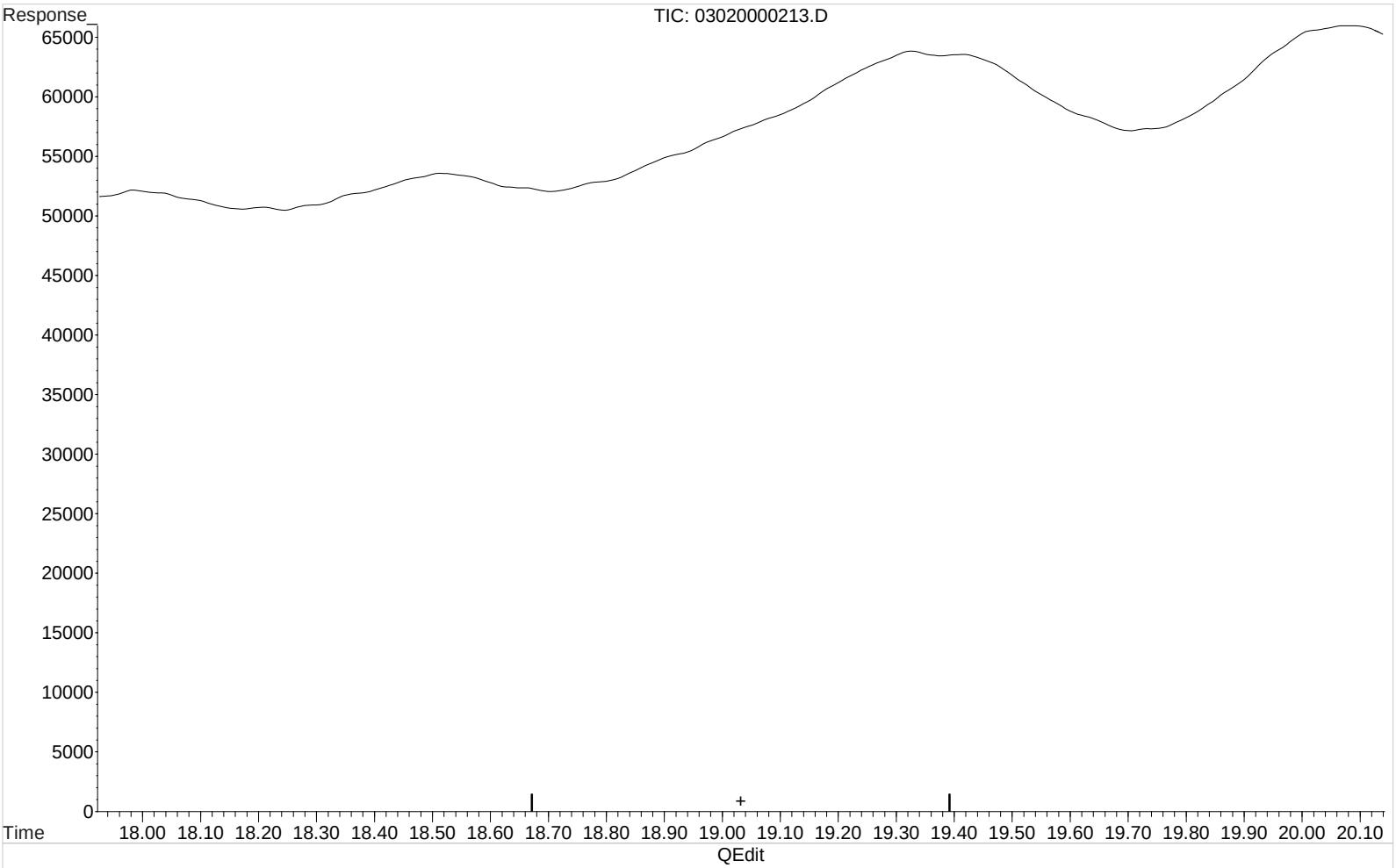
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000213.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 19:14:50 Operator: BR
Sample : K1701351-003 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:46 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(11) 4-Amino-2,6-DNT (T)

19.032min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

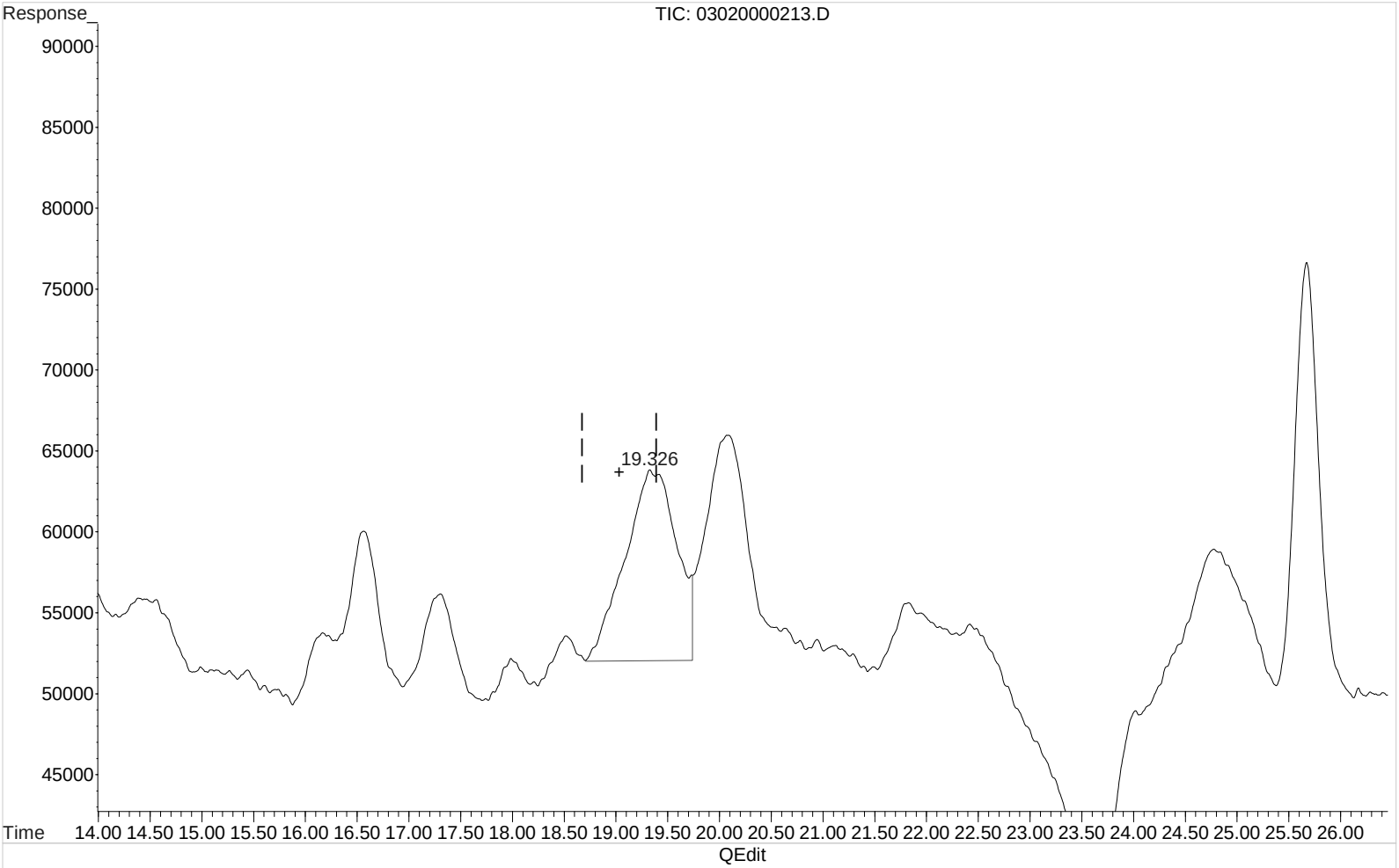
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000213.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 19:14:50 Operator: BR
Sample : K1701351-003 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 09 11:43:10 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(11) 4-Amino-2,6-DNT (T)

19.326min 13.935 ug/L m

response 411269

Manual Integration:

After

Baseline/Shoulder

03/09/17

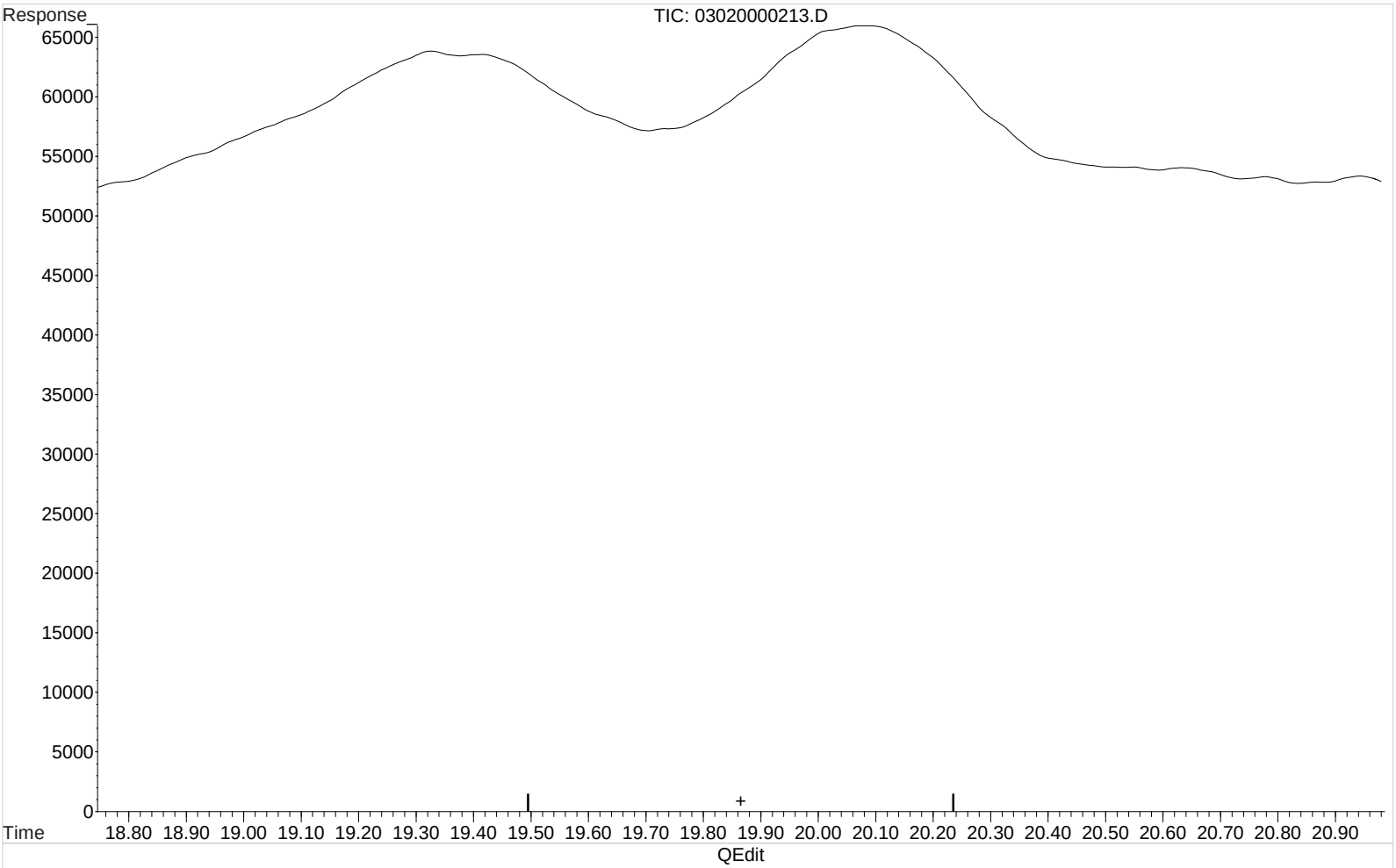
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000213.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 19:14:50 Operator: BR
Sample : K1701351-003 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:46 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(12) 2-Amino-4,6-DNT (T)

19.865min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

(+) = Expected Retention Time

(b) (6)

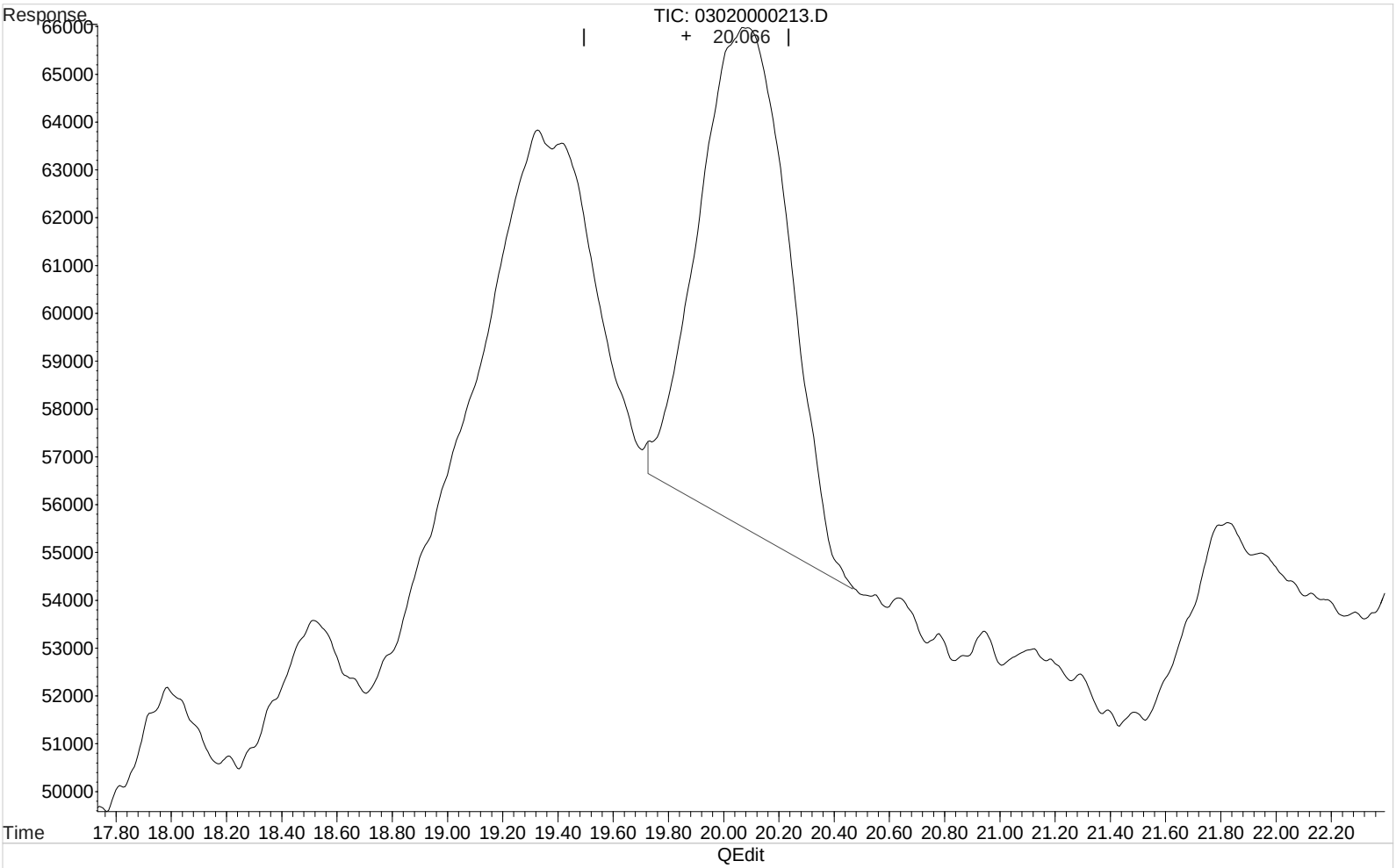
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000213.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 19:14:50 Operator: BR
Sample : K1701351-003 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:46 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(12) 2-Amino-4,6-DNT (T)

20.066min 5.633 ug/L m

response 236385

Manual Integration:

After

BLC

03/08/17

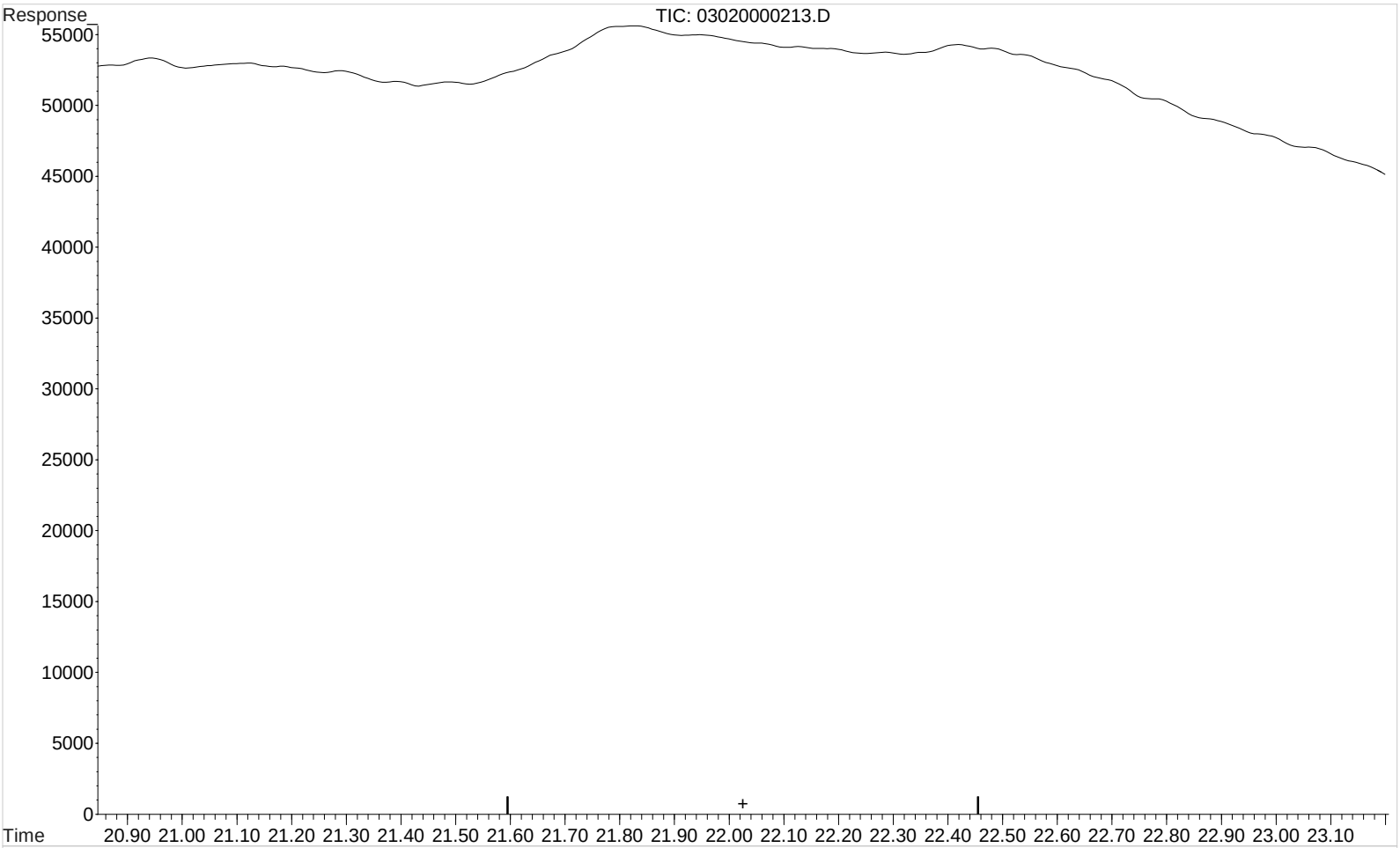
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000213.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 19:14:50 Operator: BR
Sample : K1701351-003 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:46 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.025min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

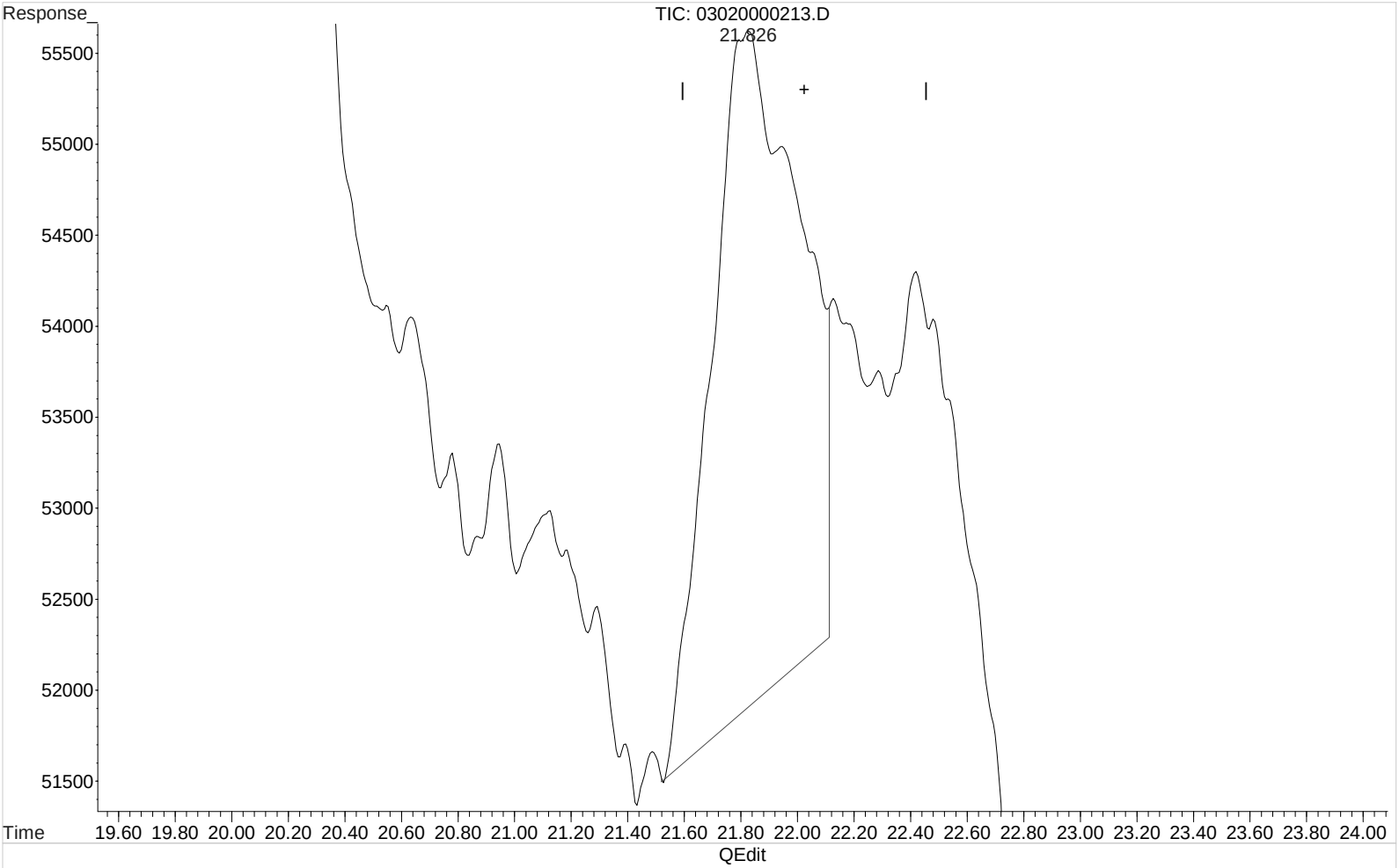
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000213.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 19:14:50 Operator: BR
Sample : K1701351-003 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:46 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

21.826min 1.371 ug/L m

response 81225

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

(b) (6)

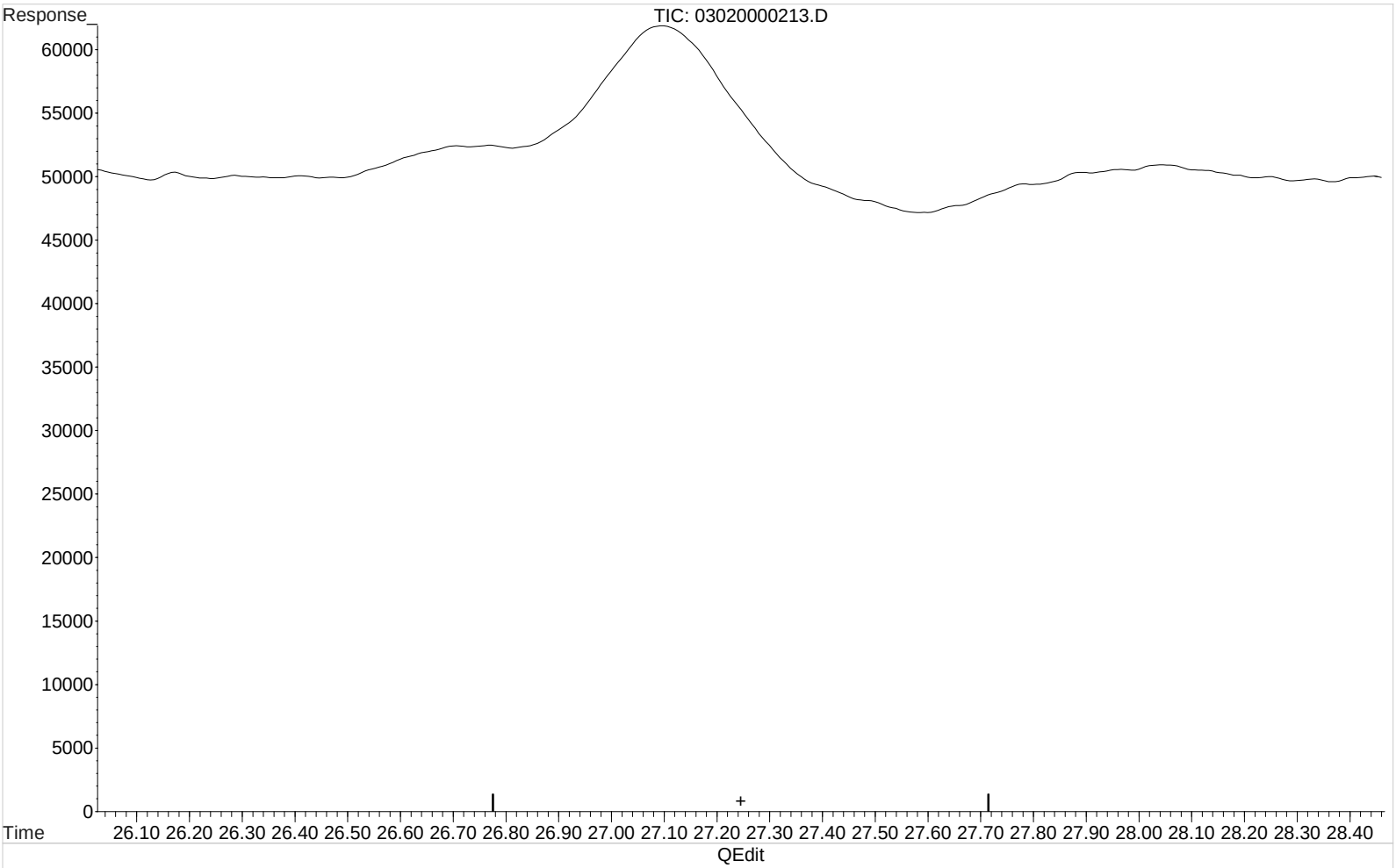
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000213.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 19:14:50 Operator: BR
Sample : K1701351-003 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:46 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.245min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

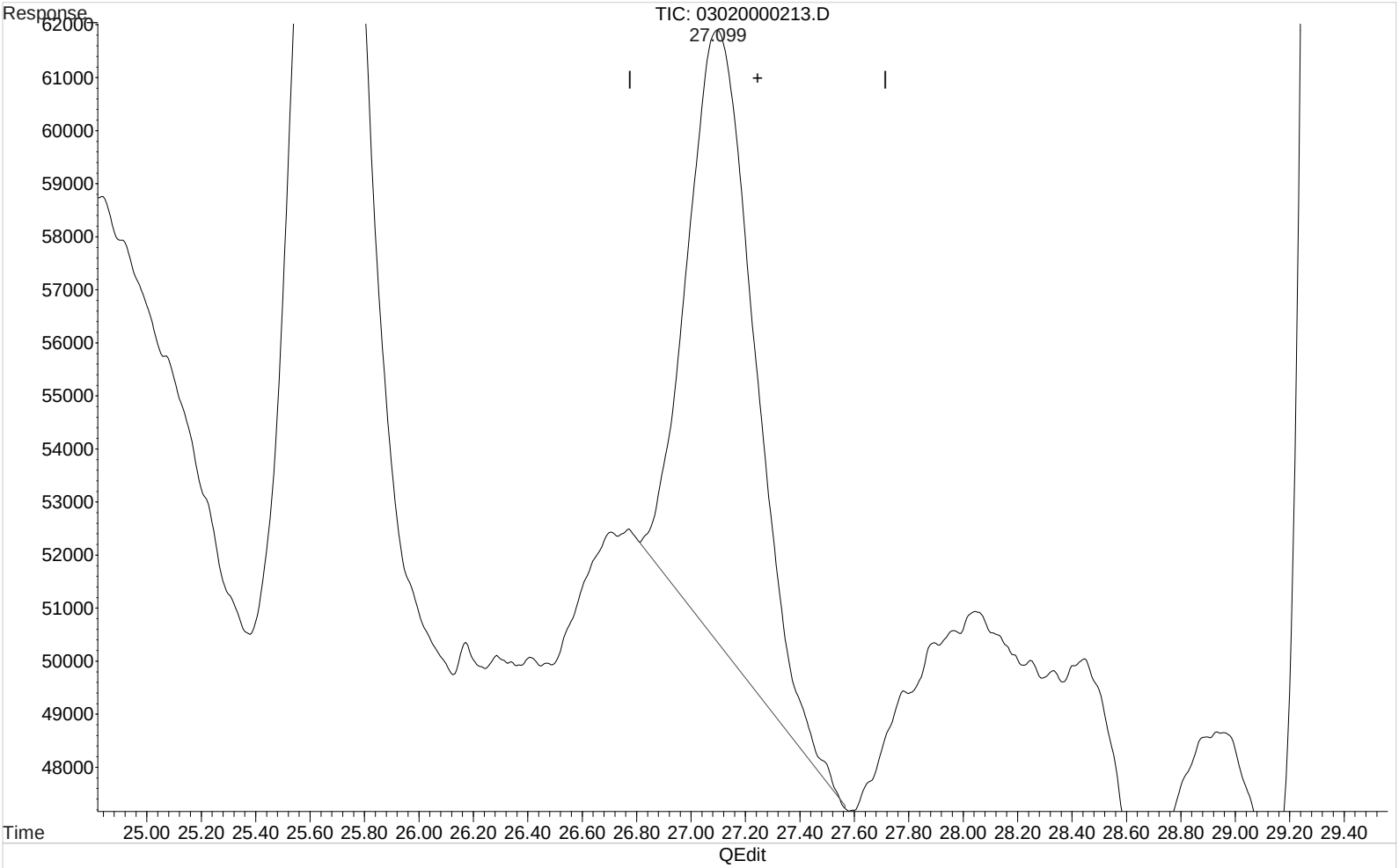
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000213.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 19:14:50 Operator: BR
Sample : K1701351-003 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:46 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(17) 3-NT (T)

27.099min 9.942 ug/L m

response 200186

Manual Integration:

After

BLC

03/08/17

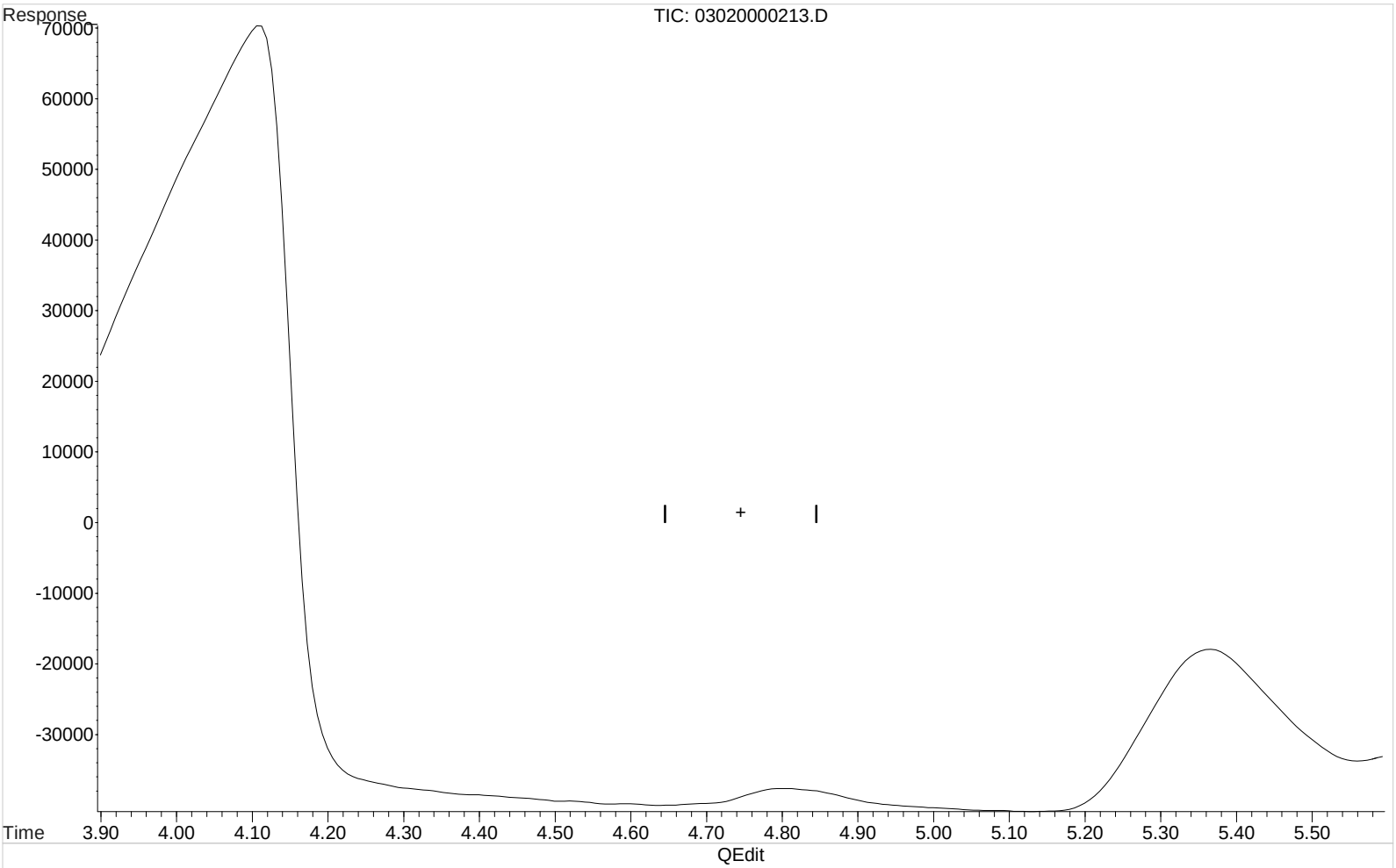
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000213.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 19:14:50 Operator: BR
Sample : K1701351-003 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:46 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(2) HMX (T)

4.745min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

(+) = Expected Retention Time

(b) (6)

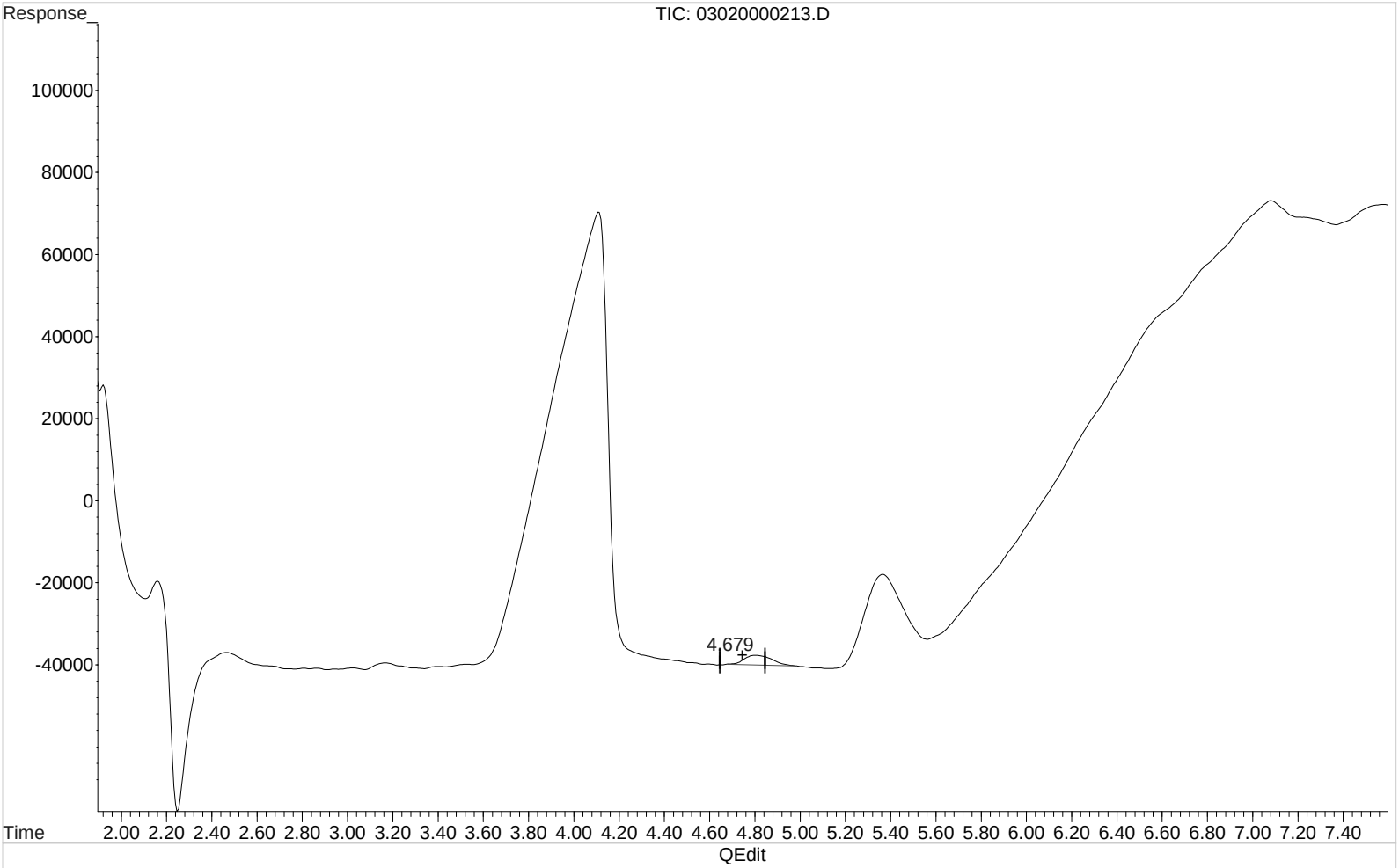
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000213.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 19:14:50 Operator: BR
Sample : K1701351-003 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:46 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(2) HMX (T)

4.679min 1.705 ug/L m

response 20412

Manual Integration:

After

BLC

03/08/17

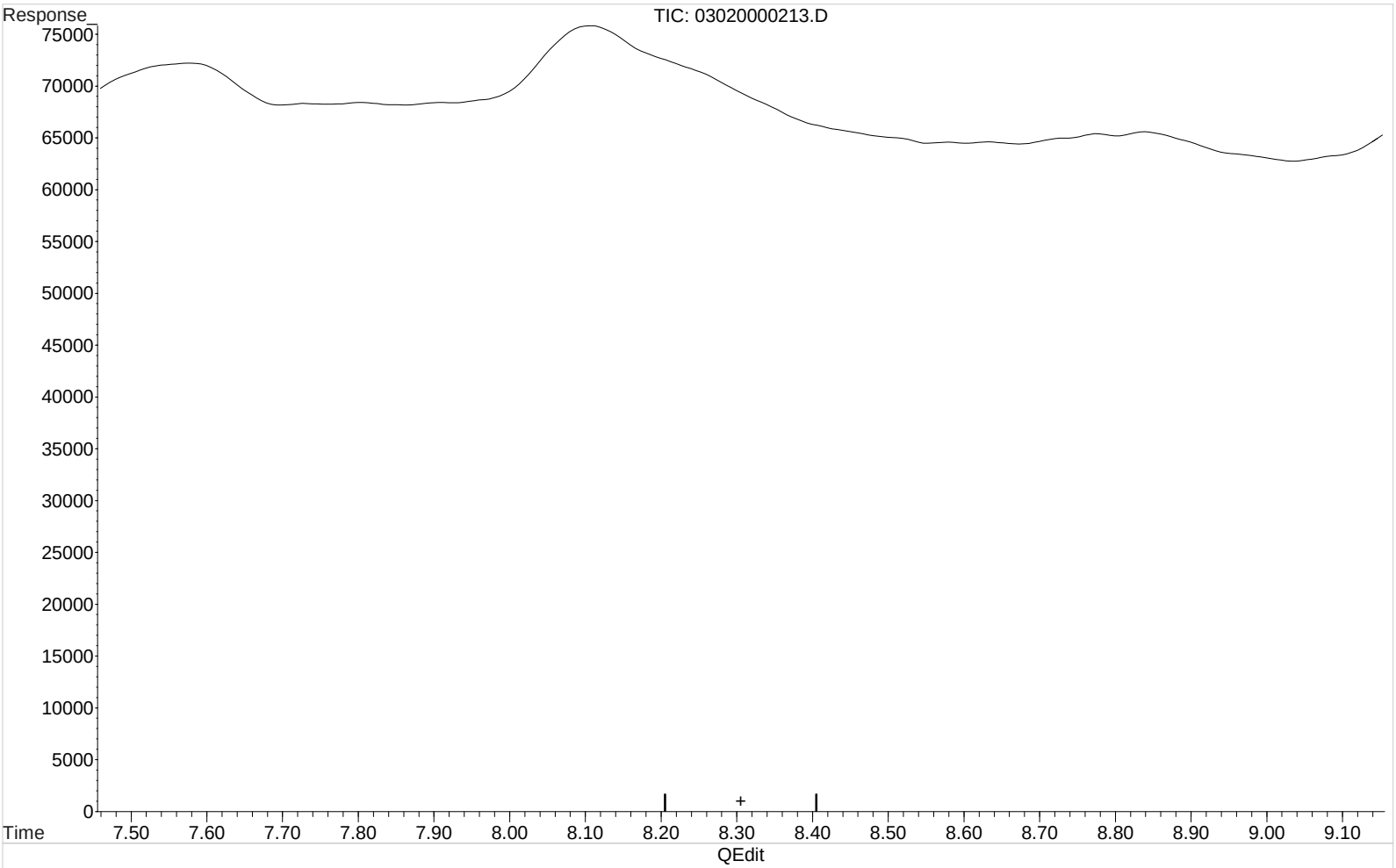
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000213.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 19:14:50 Operator: BR
Sample : K1701351-003 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:46 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(4) RDX (T)

8.305min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

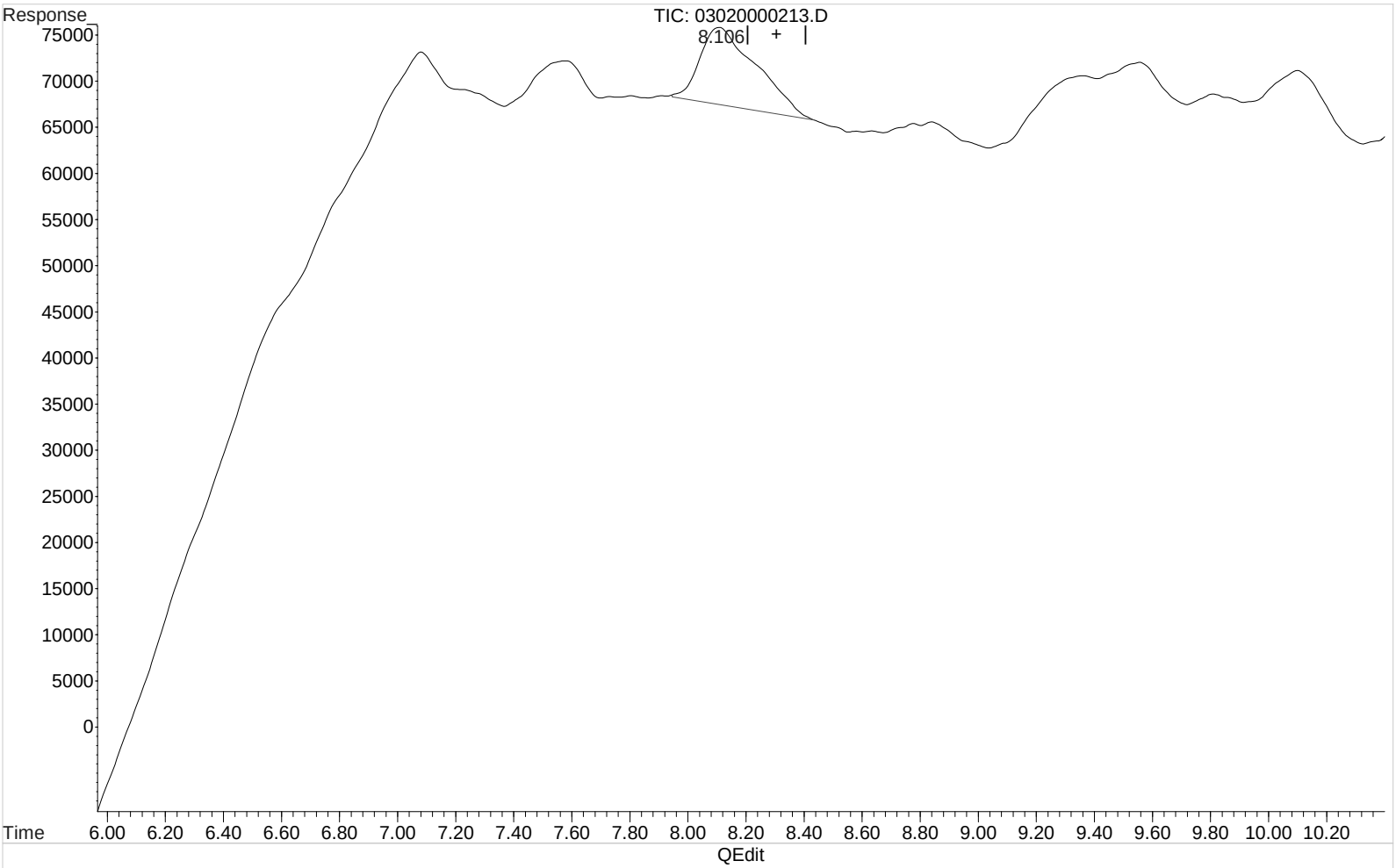
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000213.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 19:14:50 Operator: BR
Sample : K1701351-003 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:46 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(4) RDX (T)

8.106min 5.708 ug/L m

response 113353

Manual Integration:

After

BLC

03/08/17

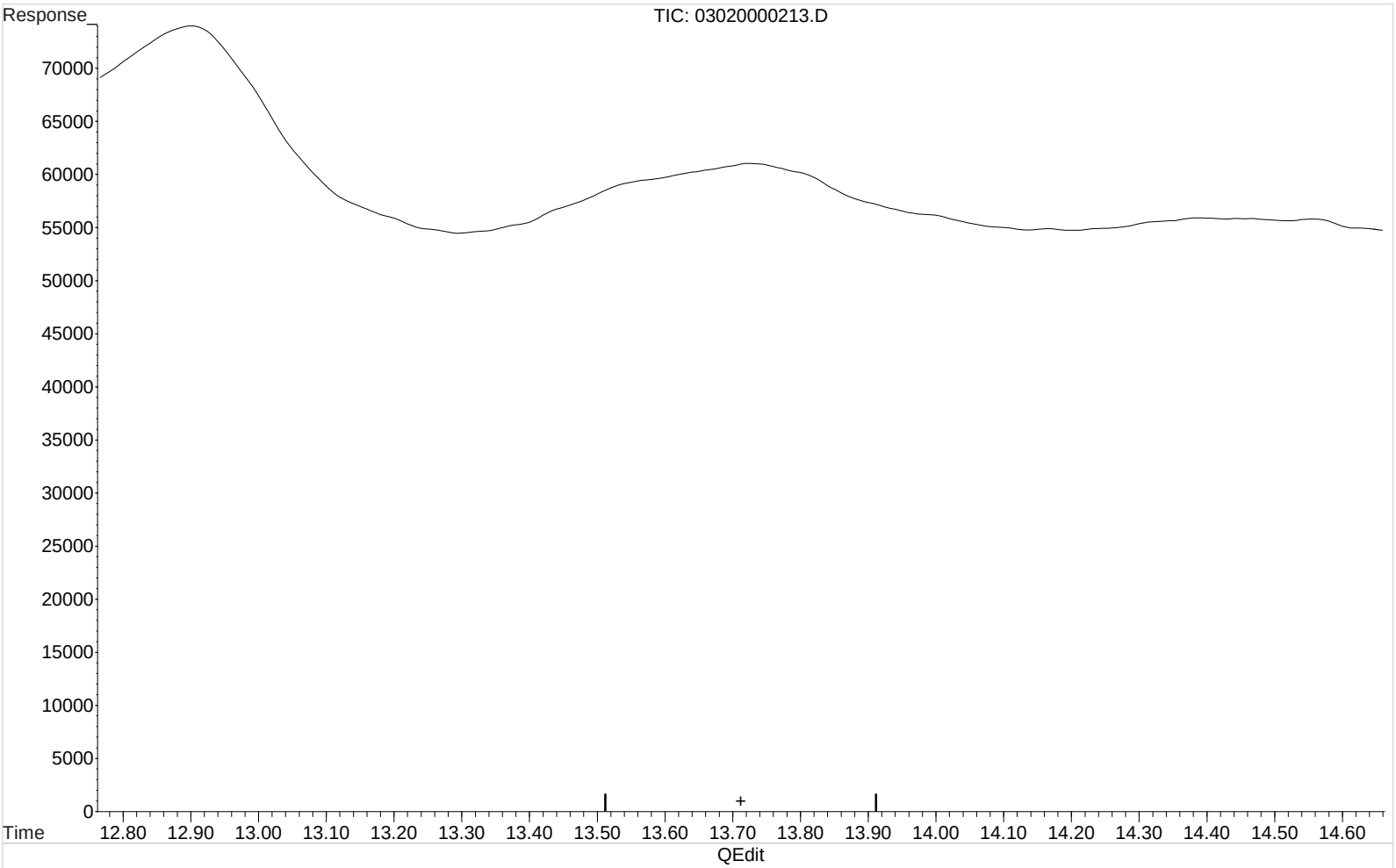
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000213.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 19:14:50 Operator: BR
Sample : K1701351-003 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:46 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(6) 1,3-DNB (T)

13.712min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

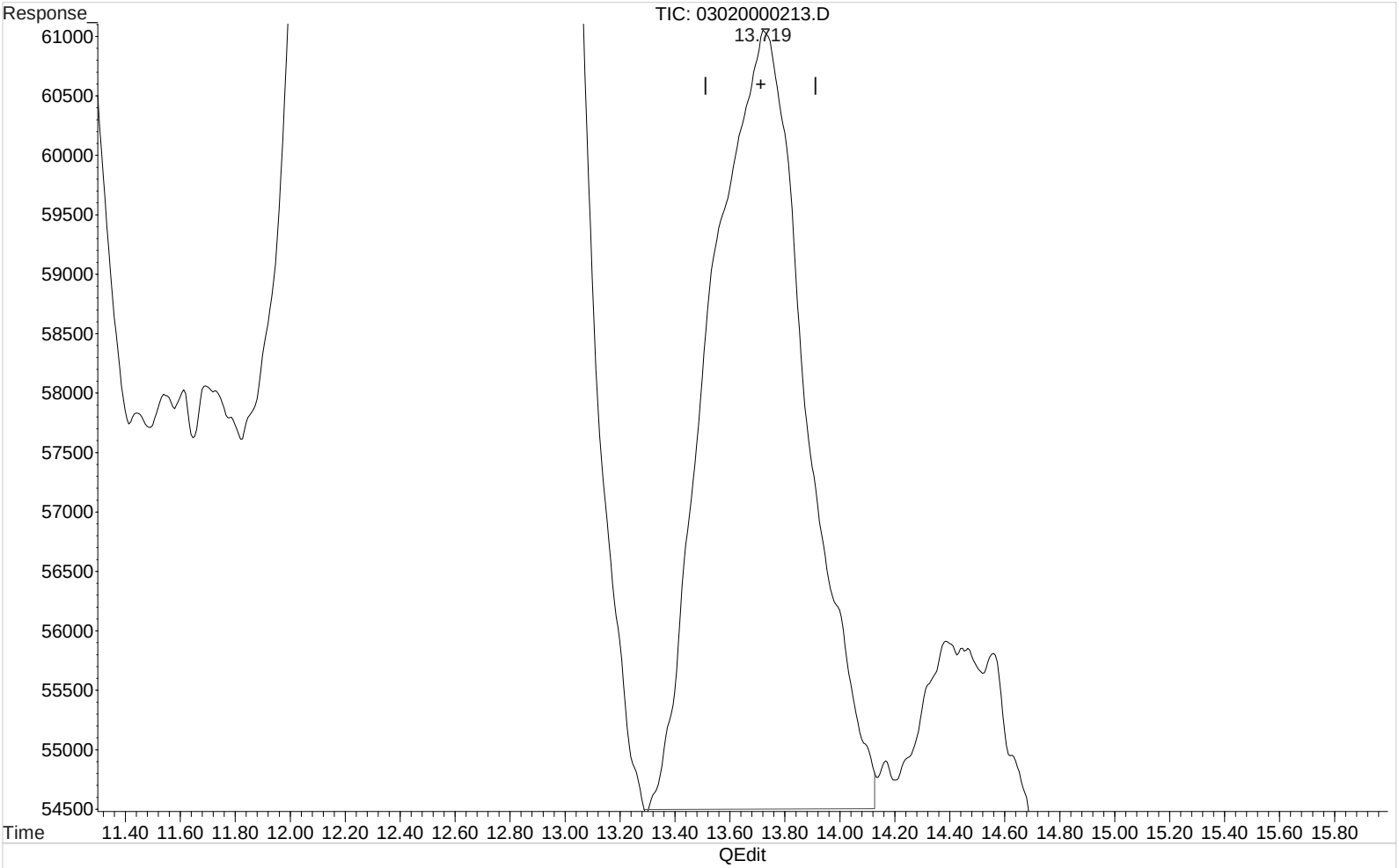
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000213.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 19:14:50 Operator: BR
Sample : K1701351-003 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:46 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(6) 1,3-DNB (T)

13.719min 2.680 ug/L m

response 161575

Manual Integration:

After

BLC

03/08/17

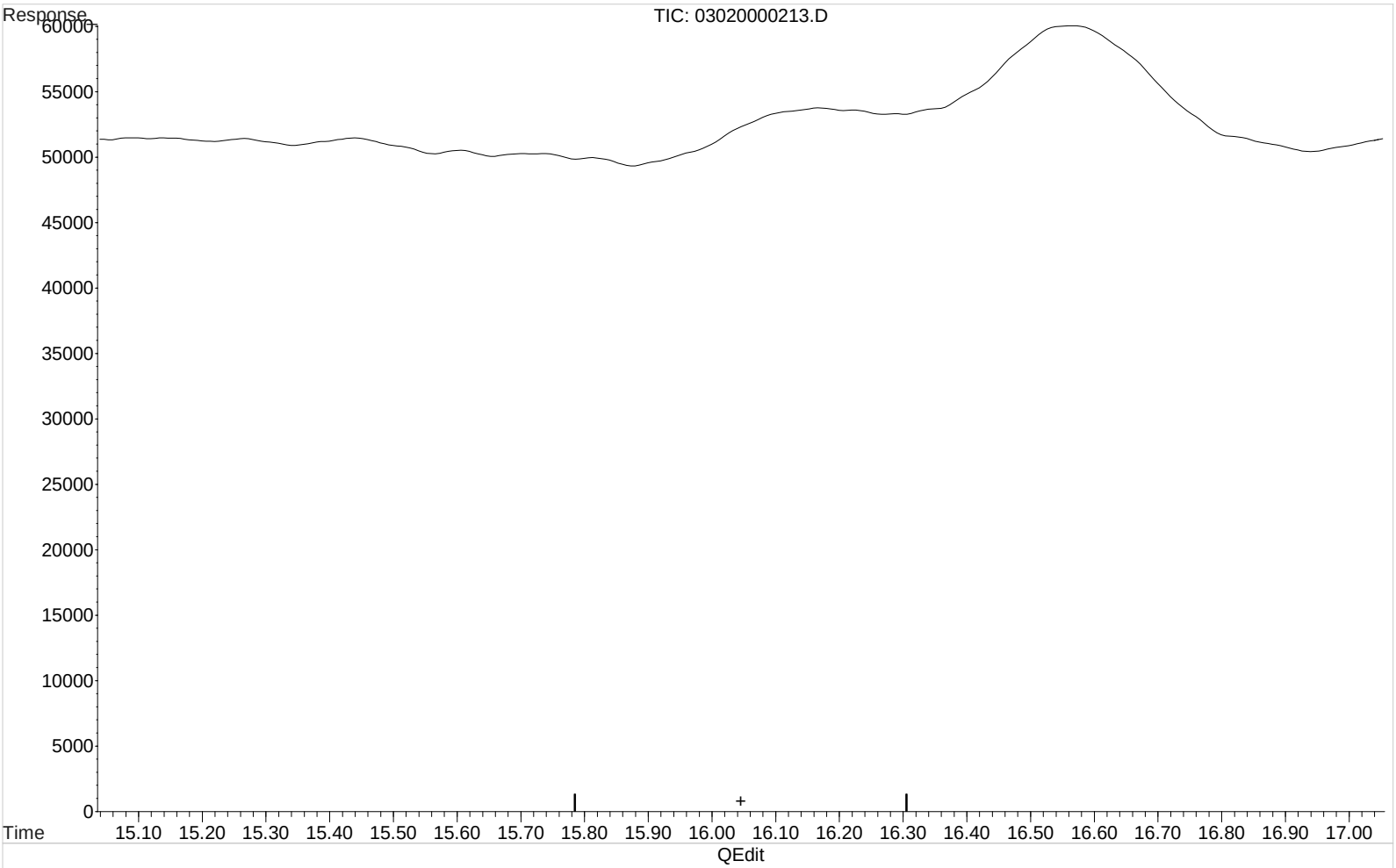
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000213.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 19:14:50 Operator: BR
Sample : K1701351-003 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:46 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(9) Nitrobenzene (T)

16.045min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

(+) = Expected Retention Time

(b) (6)

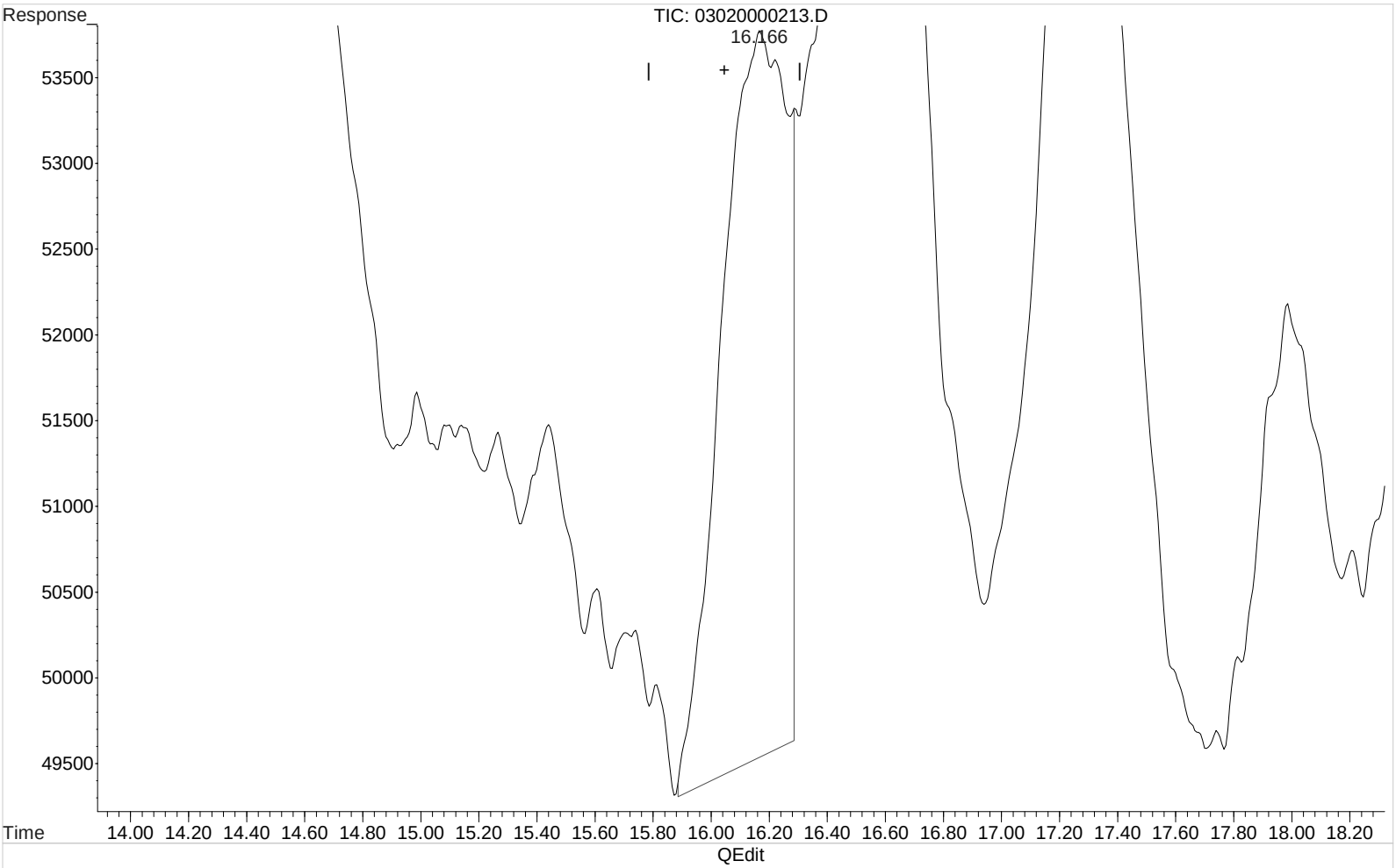
3/14/17

3/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000213.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 19:14:50 Operator: BR
Sample : K1701351-003 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:46 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.166min 1.748 ug/L m

response 67488

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000213.
Lab ID: K1701351-003
RunType: SMPL
Matrix: SOIL

Date Acquired: 03/02/2017 19:14
Date Quantitated: 03/09/2017 16:19
Batch ID: KWG1701860
Analysis Method: 8330B
ListJoinID: LJ15912

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000213.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 19:14	**Quant Date:**	03/09/2017 16:19	**Vial:**	11
Run Type:	SMPL	**ListJoinID:**	LJ14468	**Dilution:**	1.0
Lab ID:	K1701351-003			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/08/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587765	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ14468
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_254\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.63	0.03	250509561	4,406	88	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.55	0.07	1261984**m**	60.54	0.059	U	
Pentaerythritol Tetranitrate			0**d**		0.12	U	

Prep Amount:	10.078 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99.1 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000213.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 19:14	**Quant Date:**	03/09/2017 16:19	**Vial:**	11
Run Type:	SMPL	**ListJoinID:**	LJ15912	**Dilution:**	1.0
Lab ID:	K1701351-003			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/08/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587765	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ15912
		Method ID:	MJ1432
MB Ref:	J:\LC10\DATA\030317_8330_254\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.63	0.03	250509561	4,406	88	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.55	0.07	1261984**m**	60.54	0.059	U	
Pentaerythritol Tetranitrate			0**d**		0.12	U	

Prep Amount:	10.078 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99.1 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000213.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 19:14:50 Operator: BR
Sample : K1701351-003 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 09 16:19:23 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.626	250509561	4405.582	ug/L	
Target Compounds						
1) T	Nitroglycerin	16.552	1261984	60.536	ug/L	m
2) T	PETN	0.000	0	N.D.	ug/L	d

(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)

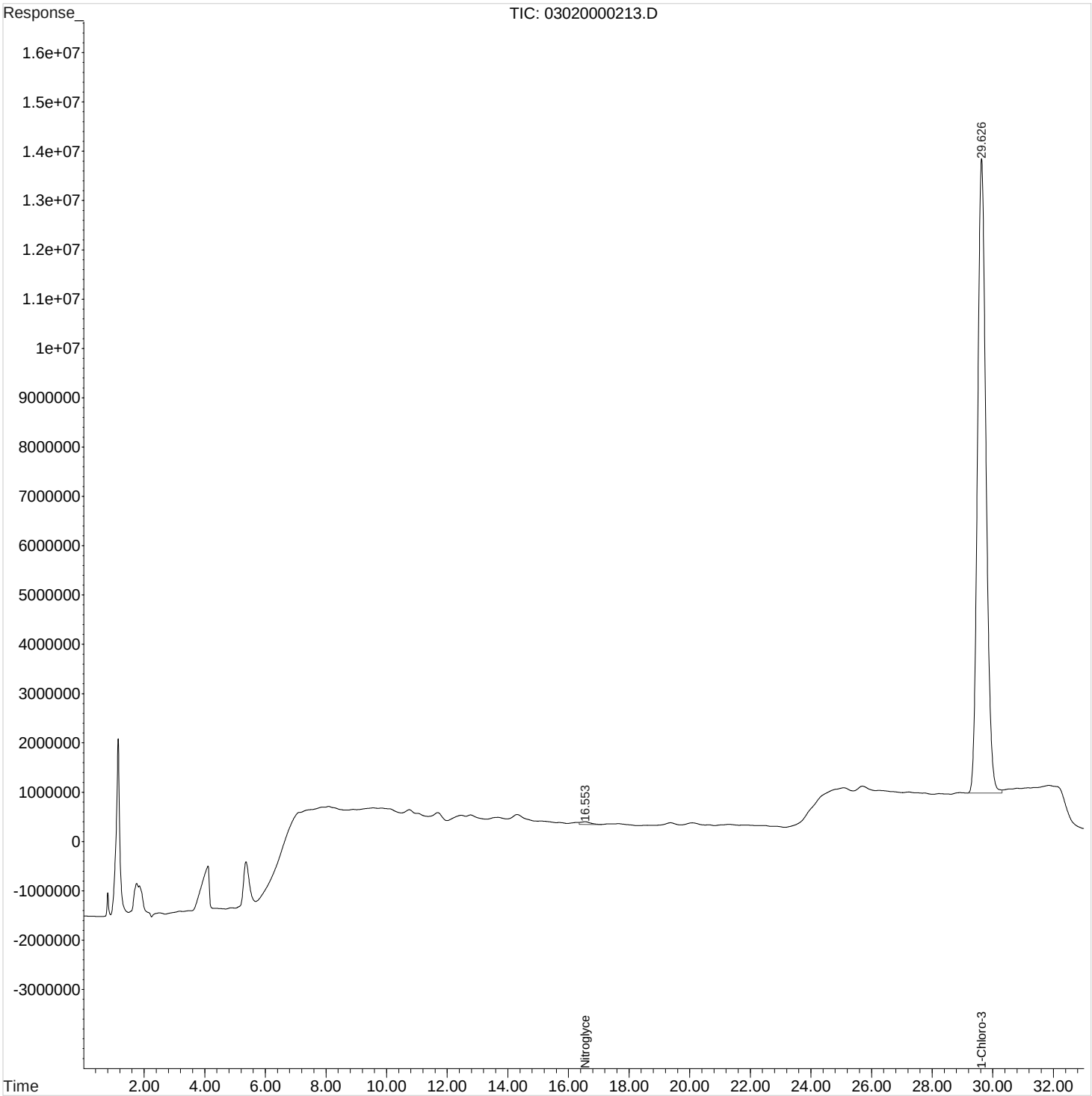
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_210\03020000213.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 19:14:50 Operator: BR
Sample : K1701351-003 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 09 16:19:23 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

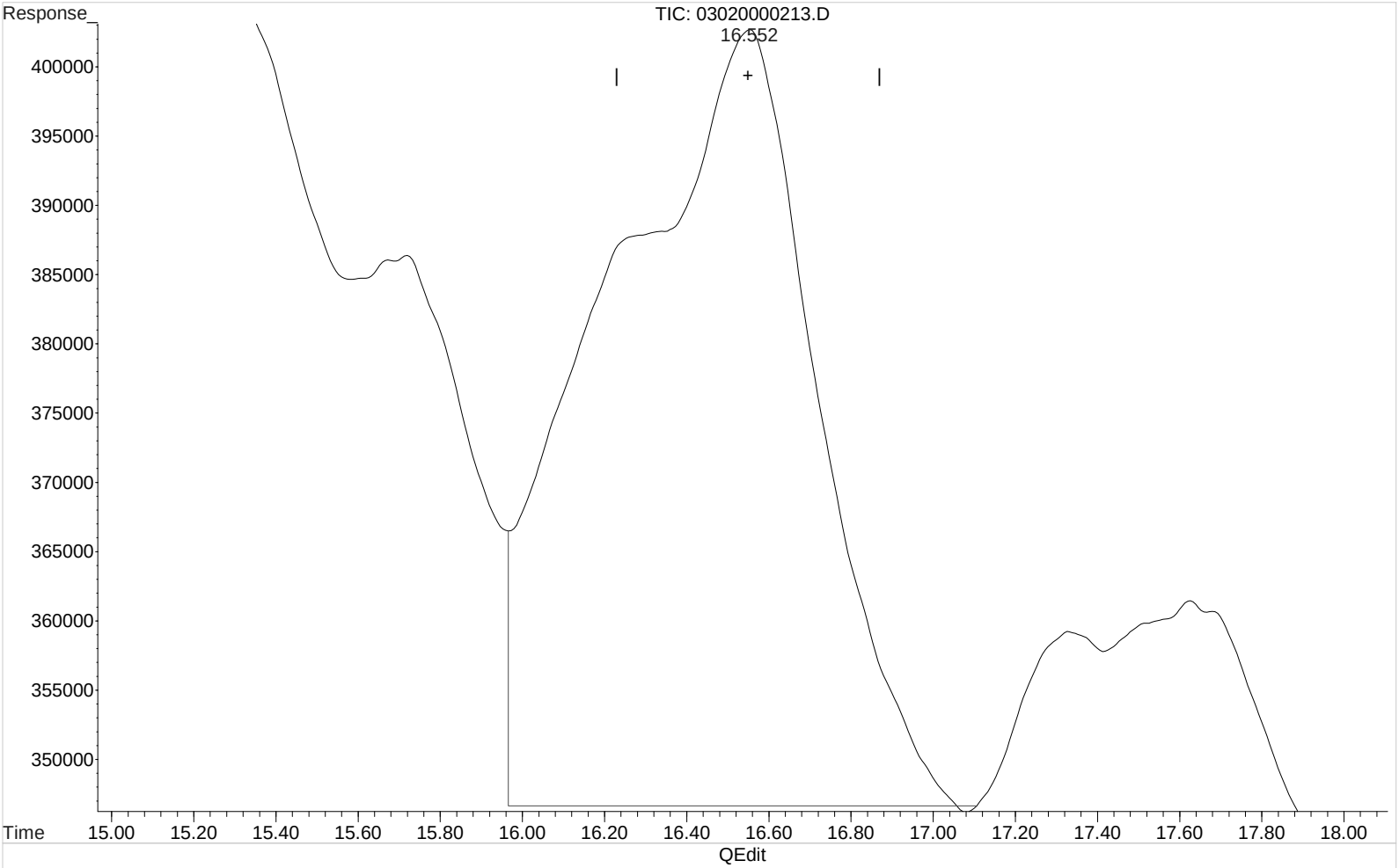


Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000213.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 19:14:50 Operator: BR
Sample : K1701351-003 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:00:00 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.552min 96.799 ug/L

response 2017942

Manual Integration:

Before

03/06/17

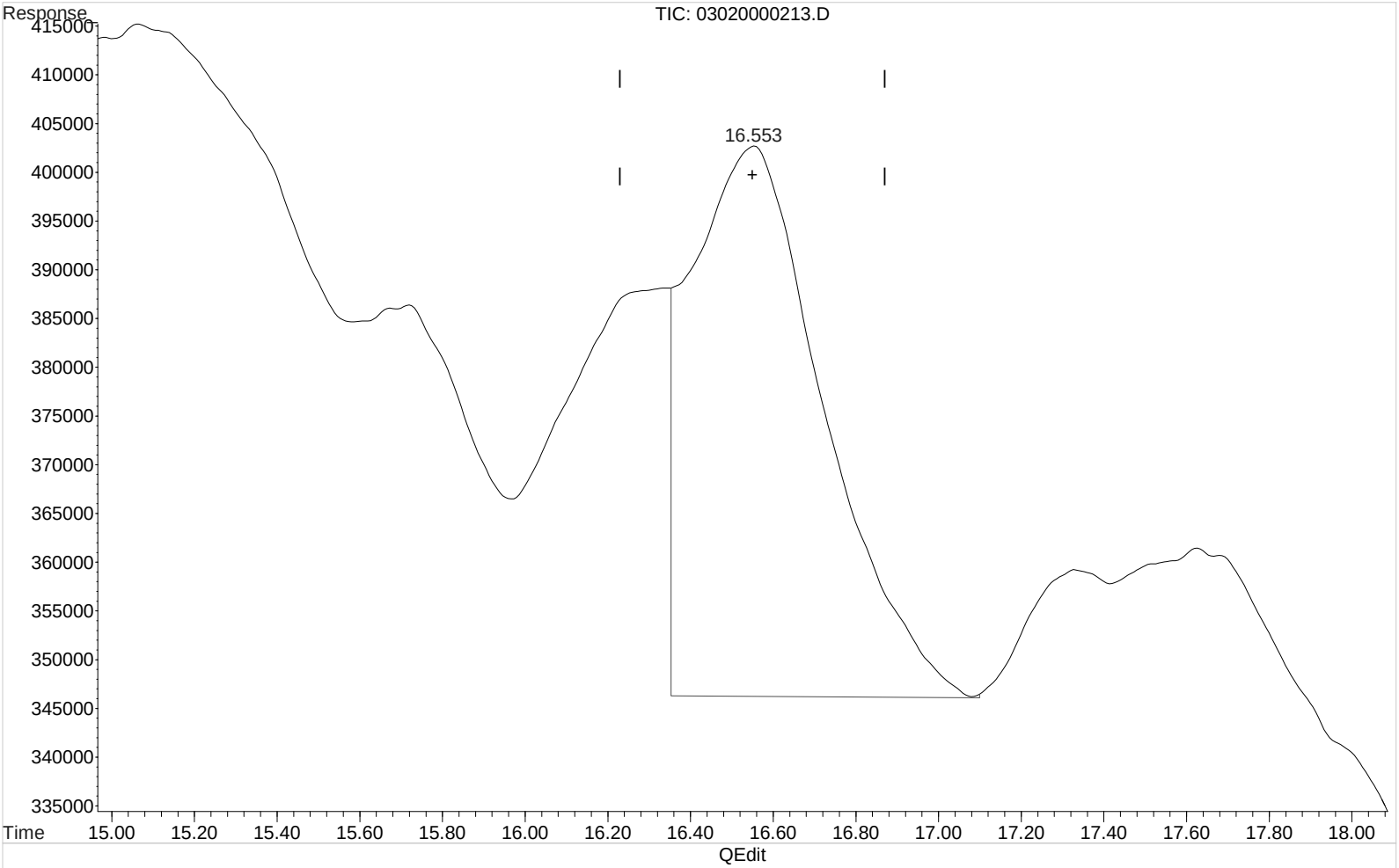
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000213.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 19:14:50 Operator: BR
Sample : K1701351-003 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:35:45 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.552min 60.536 ug/L m

response 1261984

Manual Integration:

After

Baseline/Shoulder

03/09/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000214.
Lab ID: K1701351-004
RunType: SMPL
Matrix: SOIL

Date Acquired: 03/02/2017 19:51
Date Quantitated: 03/08/2017 14:21
Batch ID: KWG1701858
Analysis Method: 8330B
ListJoinID: LJ15912

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000214.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 19:51	**Quant Date:**	03/08/2017 14:21	**Vial:**	12
Run Type:	SMPL	**ListJoinID:**	LJ14468	**Dilution:**	1.0
Lab ID:	K1701351-004			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/08/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701858	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587766	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ14468
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_254\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.63	0.03	89385226	4,136	83	34-135	OK	

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0		0.0064	U	
RDX			0		0.049	U	
1,3,5-Trinitrobenzene			0		0.027	U	
1,3-Dinitrobenzene			0**d**		0.012	U	
TETRYL			0		0.041	U	
Nitrobenzene	16.13	0.05	42220**m**	1.09	0.0044	U	
2,4,6-Trinitrotoluene	17.29		29909**m**	0.7180	0.018	U	
4-Amino-2,6-dinitrotoluene			0		0.0051	U	
2-Amino-4,6-dinitrotoluene			0		0.0075	U	
2,6-Dinitrotoluene			0		0.0051	U	
2,4-Dinitrotoluene	22.06		296181**m**	5.00	0.041	U	
2-Nitrotoluene			0		0.0071	U	
4-Nitrotoluene			0		0.018	U	
3-Nitrotoluene	27.07	-0.21	438110**m**	21.76	0.018	U	

Prep Amount:	10.291 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	98.7 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000214.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 19:51:04 Operator: BR
Sample : K1701351-004 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 14:21:50 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
18) S	1-Chloro-3-Nitrobenzene	29.627	89385226	4136.448	ug/L	
	Target Compounds					
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2) T	HMX	0.000	0	N.D.	ug/L	
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4) T	RDX	0.000	0	N.D.	ug/L	
5) T	1,3,5-TNB	0.000	0	N.D.	ug/L	
6) T	1,3-DNB	0.000	0	N.D.	ug/L	d
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L	
8) T	Tetryl	0.000	0	N.D.	ug/L	
9) T	Nitrobenzene	16.133	42220	1.093	ug/L	m
10) T	2,4,6-TNT	17.287	29909	0.718	ug/L	m
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L	
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L	
13) T	2,6-DNT	0.000	0	N.D.	ug/L	
14) T	2,4-DNT	22.060	296181	5.000	ug/L	m
15) T	2-NT	0.000	0	N.D.	ug/L	
16) T	4-NT	0.000	0	N.D.	ug/L	
17) T	3-NT	27.073	438110	21.757	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

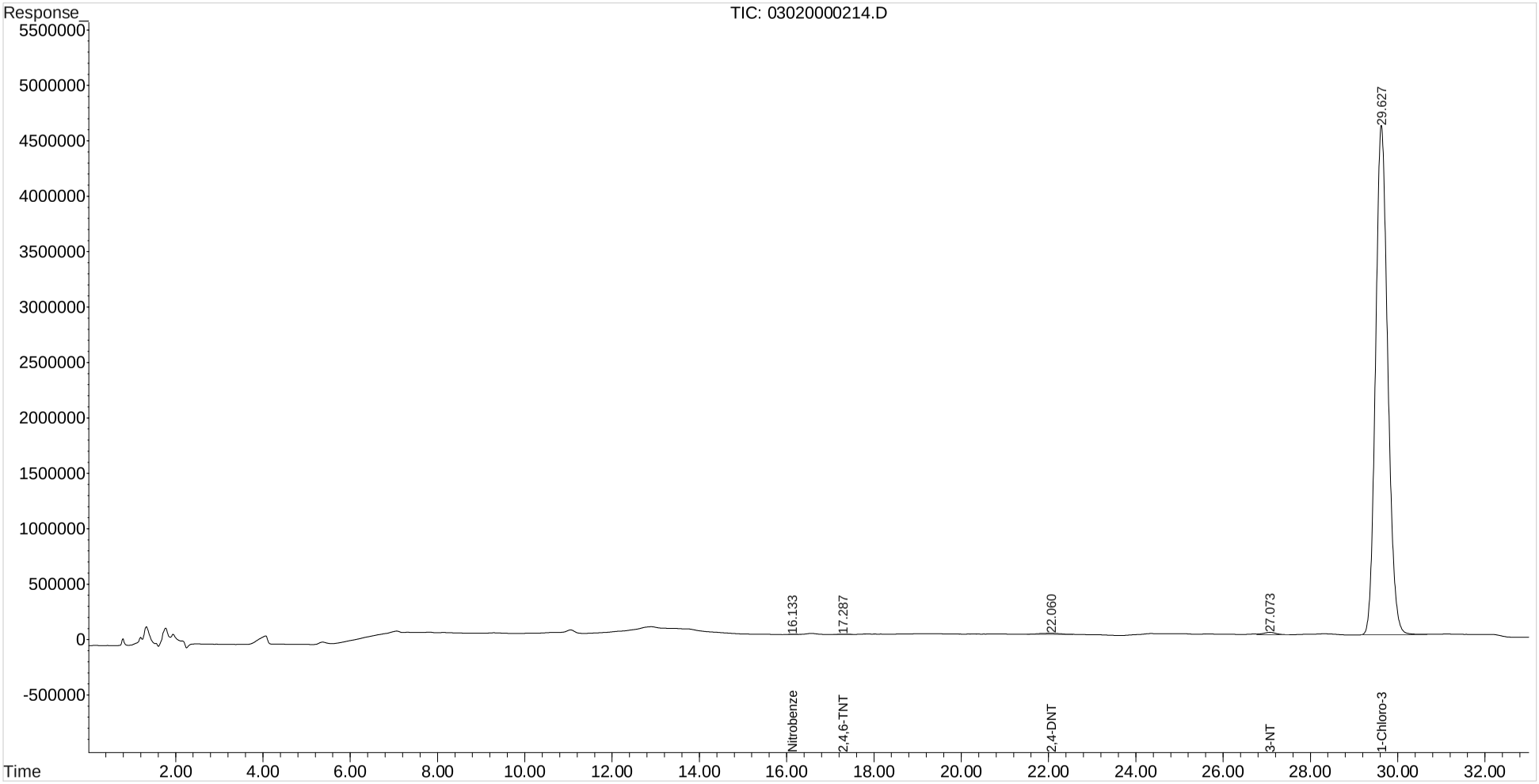
[redacted] (g) (g) 03/14/17 03/29/17

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000214.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 19:51:04 Operator: BR
Sample : K1701351-004 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 14:21:50 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



011983

(b) (6)

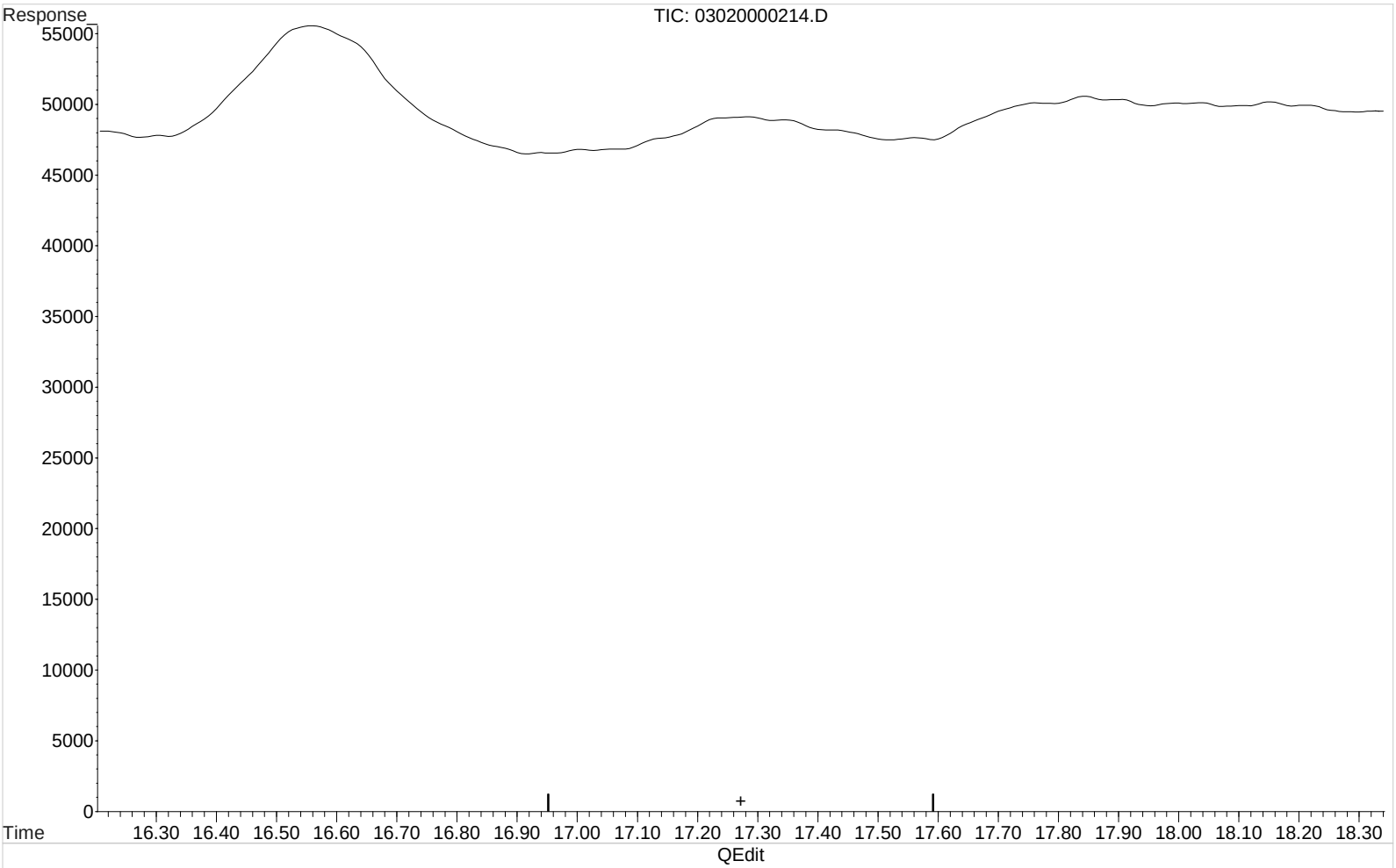
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000214.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 19:51:04 Operator: BR
Sample : K1701351-004 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:34:42 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(10) 2,4,6-TNT (T)

17.272min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

(+) = Expected Retention Time

(b) (6)

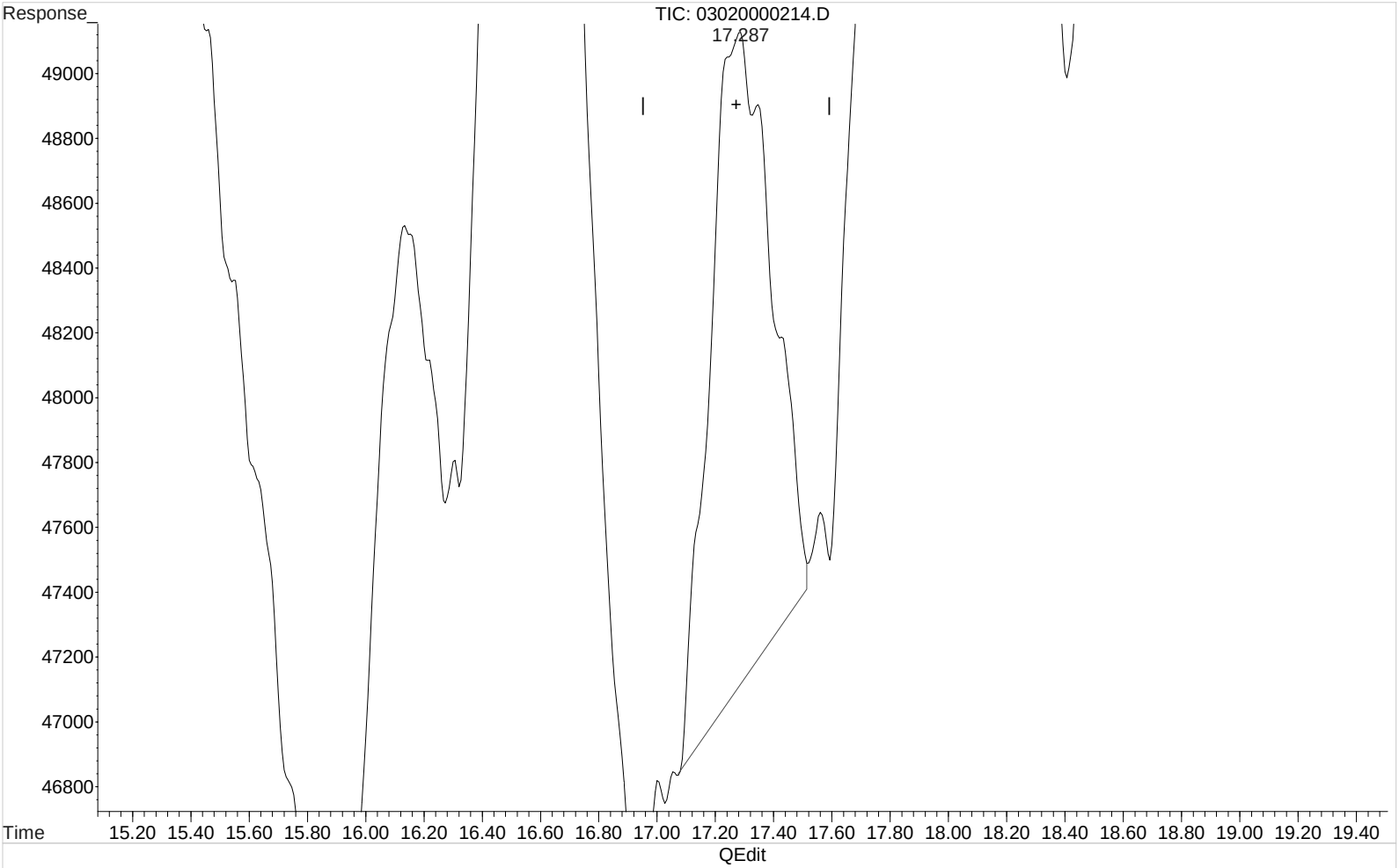
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000214.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 19:51:04 Operator: BR
Sample : K1701351-004 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:34:42 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(10) 2,4,6-TNT (T)

17.287min 0.718 ug/L m

response 29909

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

(b) (6)

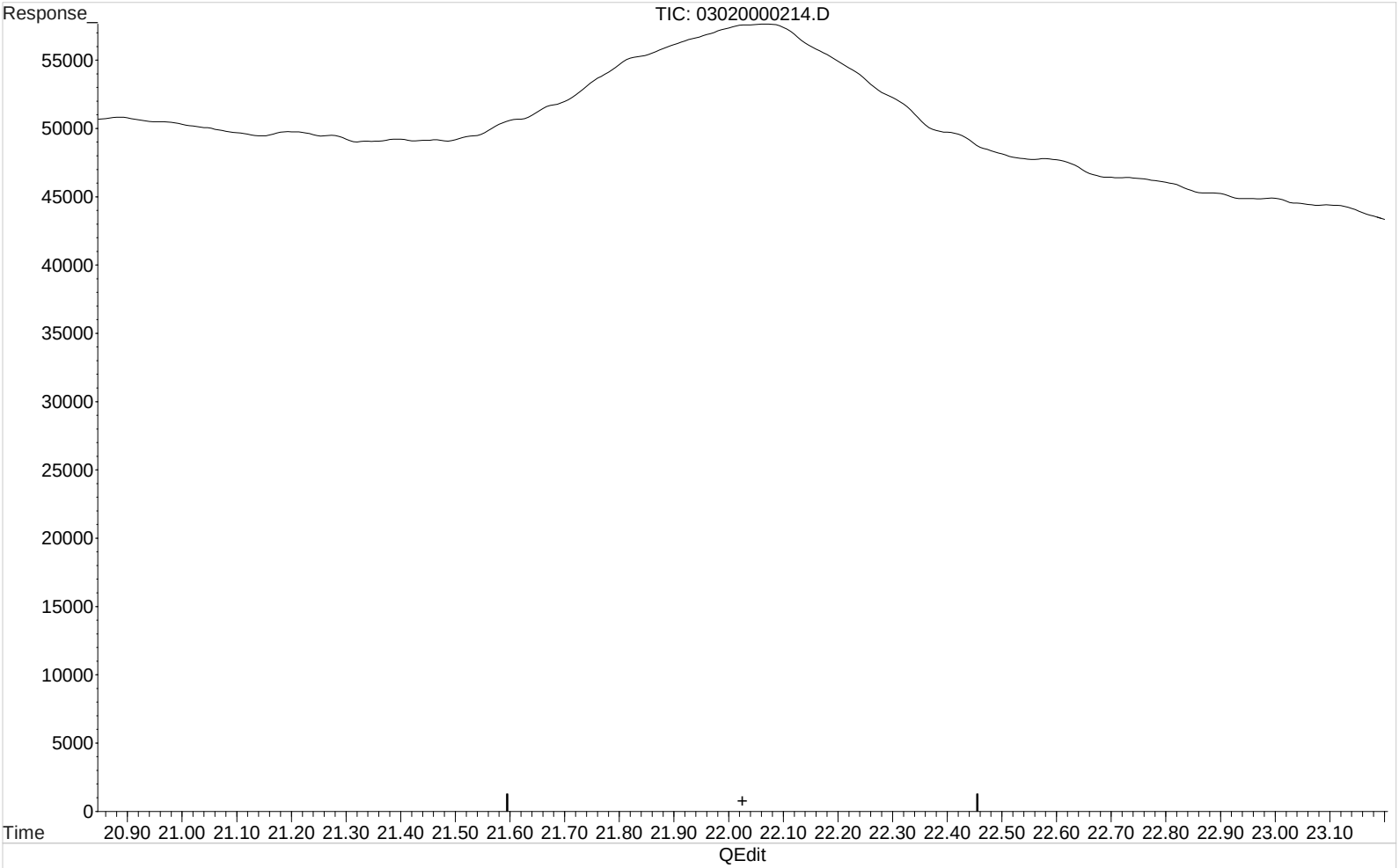
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000214.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 19:51:04 Operator: BR
Sample : K1701351-004 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:34:42 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.025min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

(+) = Expected Retention Time

(b) (6)

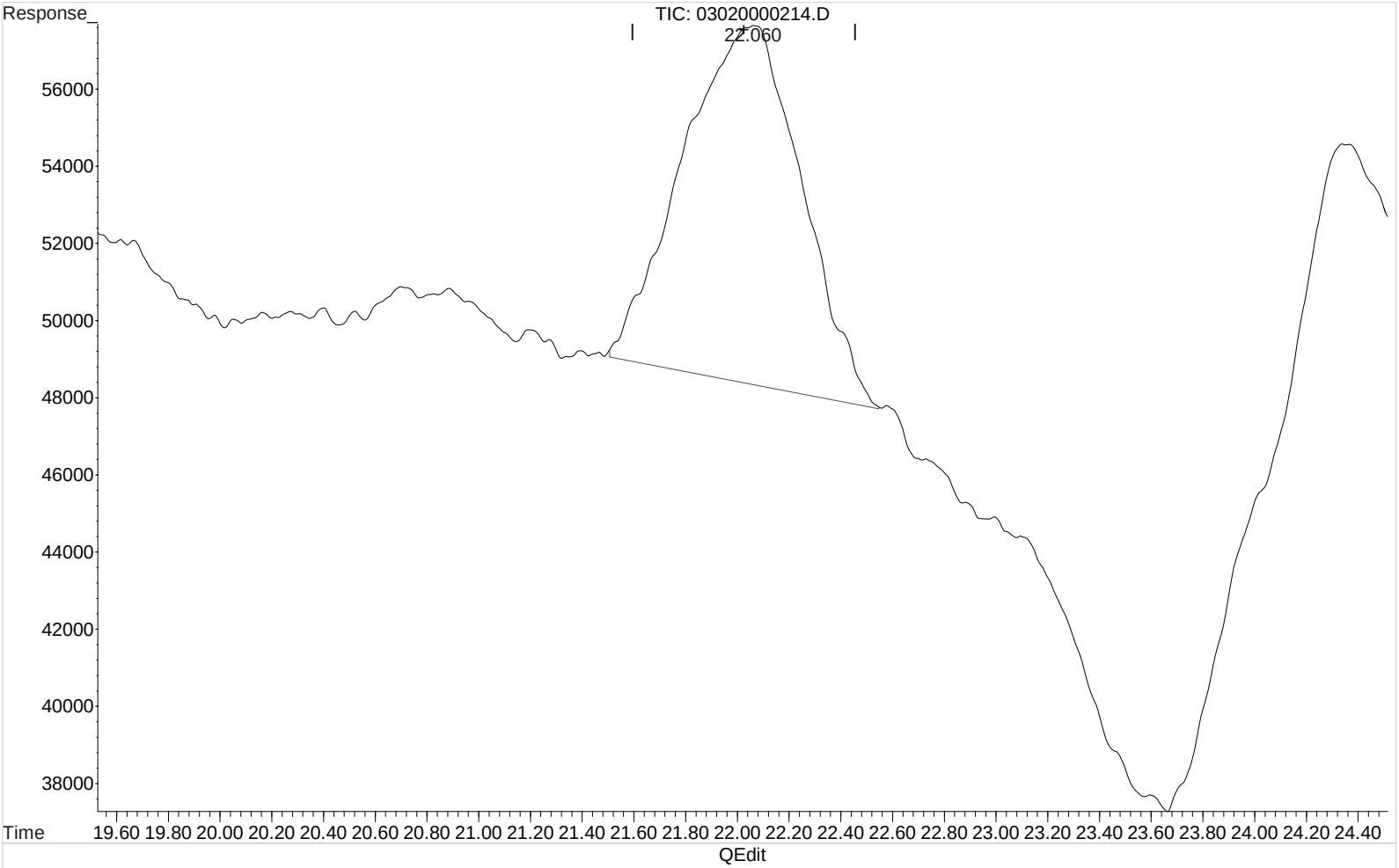
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000214.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 19:51:04 Operator: BR
Sample : K1701351-004 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:34:42 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.060min 5.000 ug/L m

response 296181

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

(b) (6)

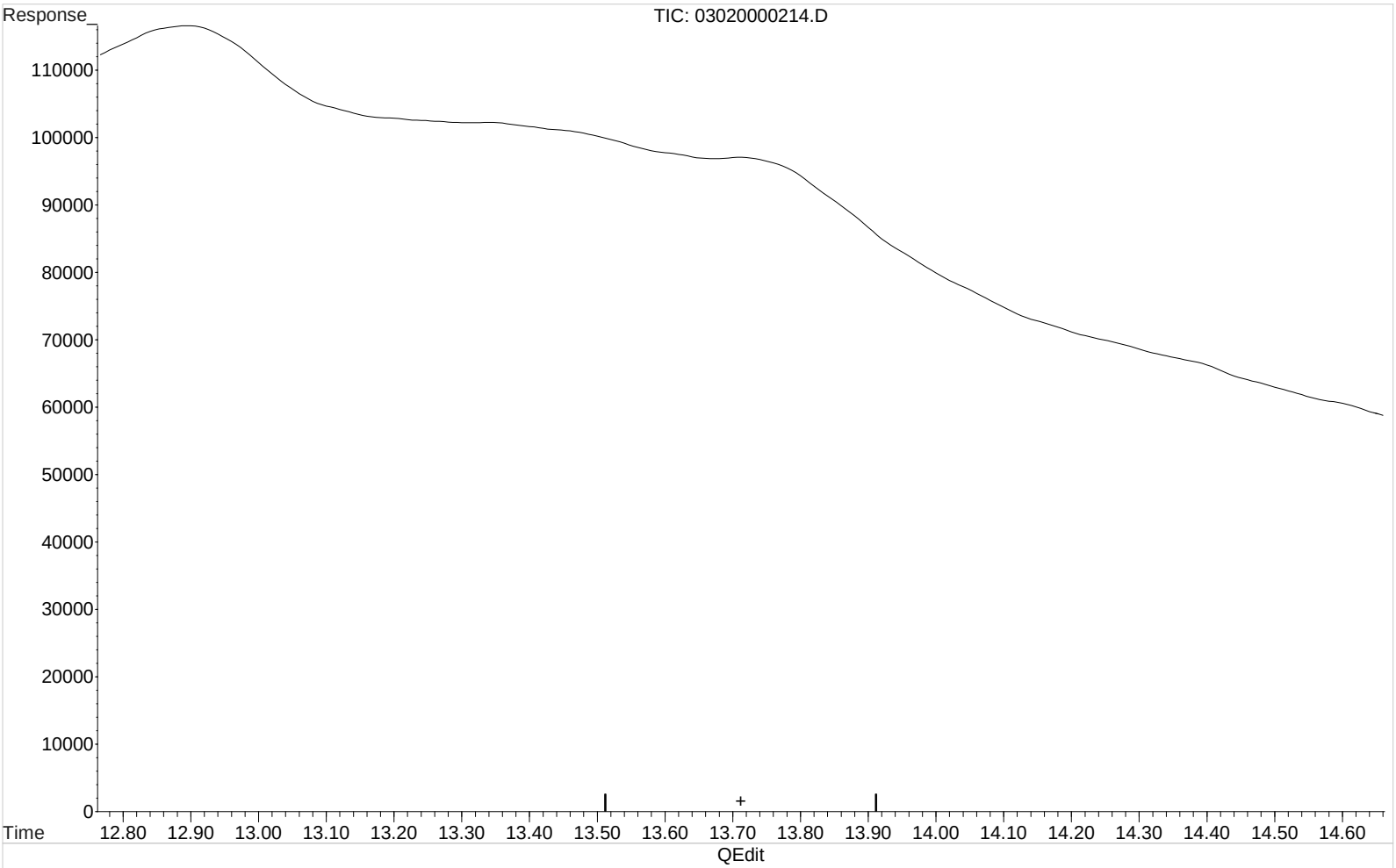
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000214.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 19:51:04 Operator: BR
Sample : K1701351-004 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:34:42 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(6) 1,3-DNB (T)

13.712min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

(+) = Expected Retention Time

(b) (6)

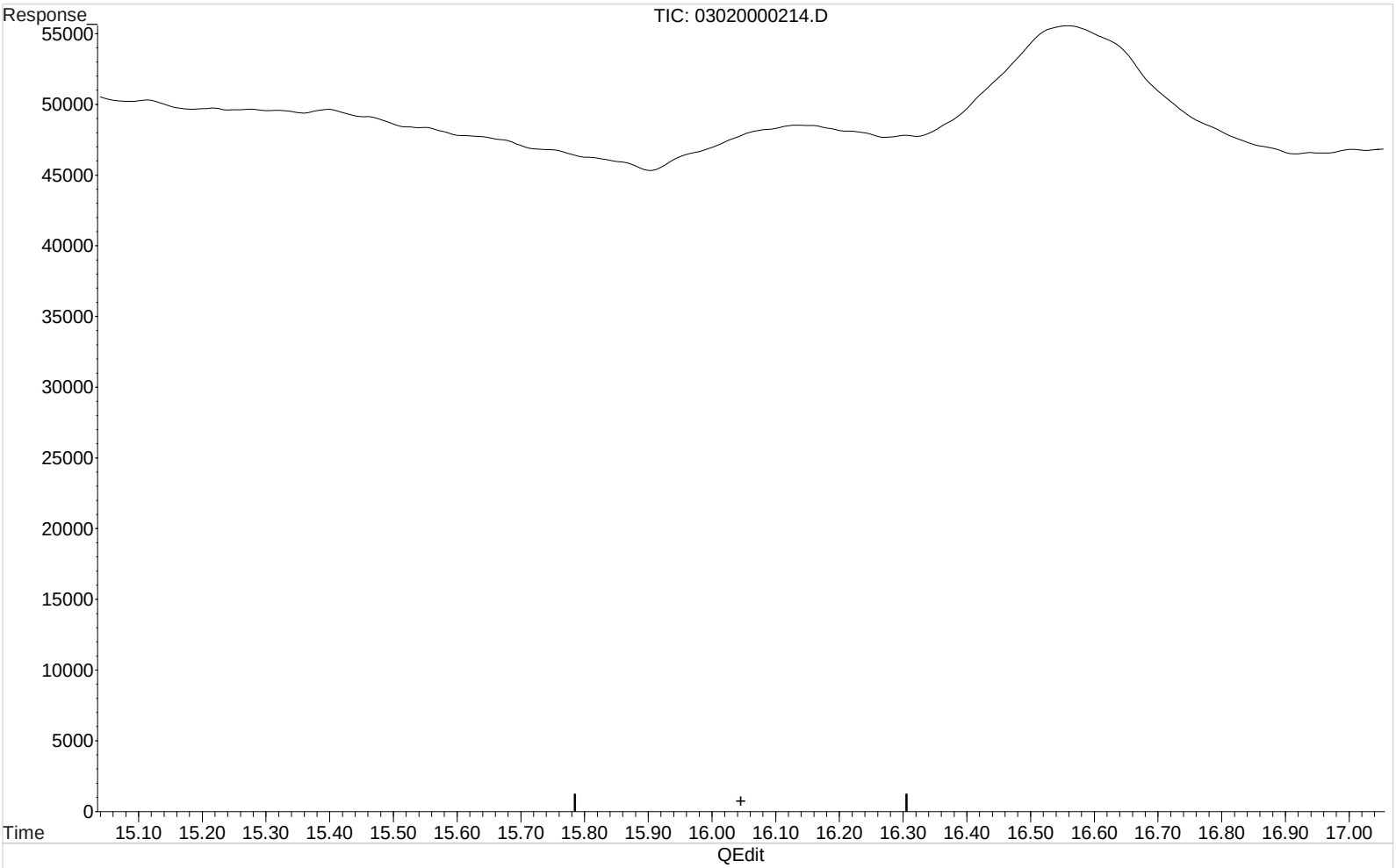
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000214.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 19:51:04 Operator: BR
Sample : K1701351-004 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:34:42 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.045min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

(+) = Expected Retention Time

(b) (6)

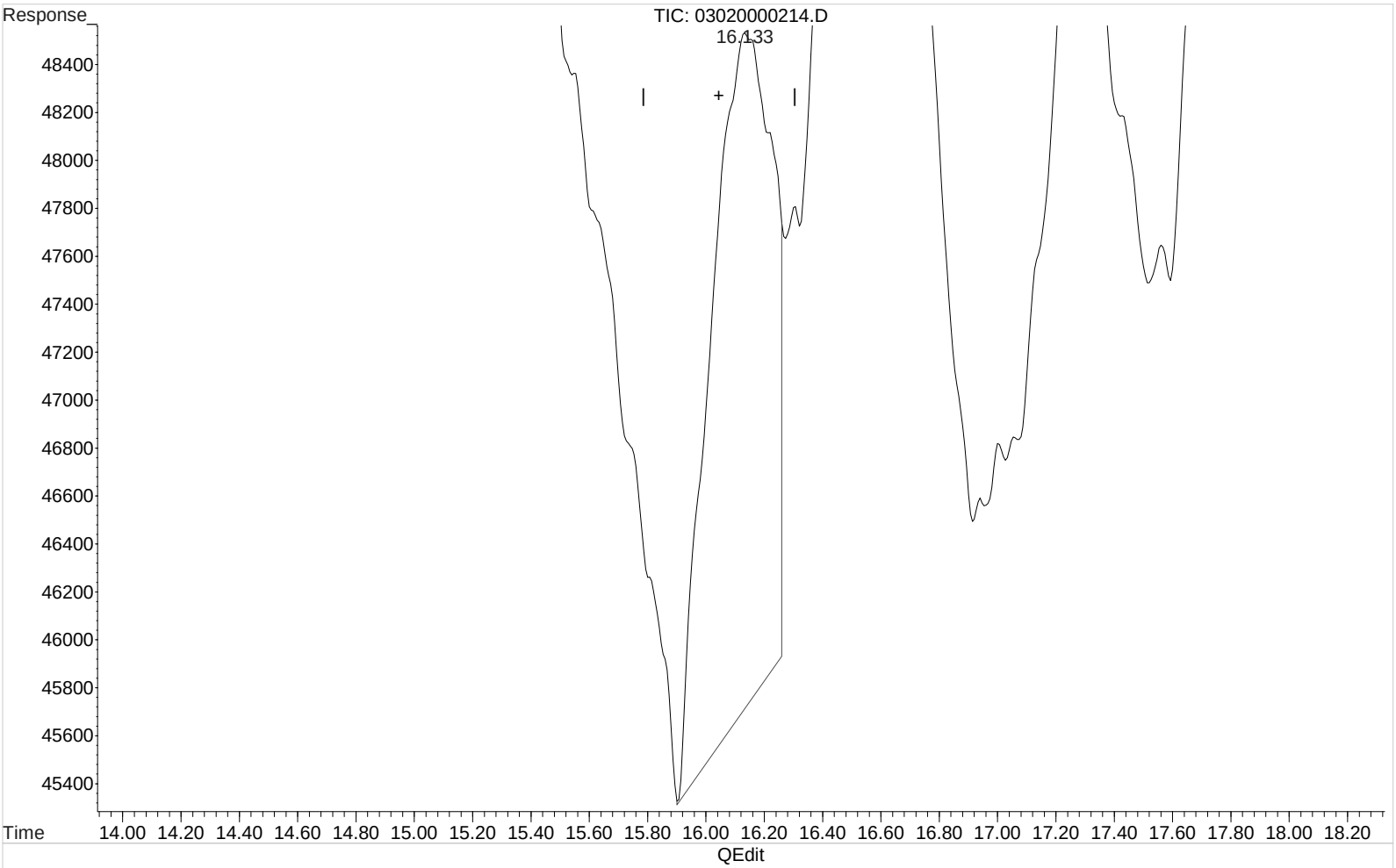
3/14/17

3/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000214.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 19:51:04 Operator: BR
Sample : K1701351-004 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:34:42 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.133min 1.093 ug/L m

response 42220

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000214.
Lab ID: K1701351-004
RunType: SMPL
Matrix: SOIL

Date Acquired: 03/02/2017 19:51
Date Quantitated: 03/06/2017 15:39
Batch ID: KWG1701860
Analysis Method: 8330B
ListJoinID: LJ15912

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000214.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 19:51	**Quant Date:**	03/06/2017 15:39	**Vial:**	12
Run Type:	SMPL	**ListJoinID:**	LJ14468	**Dilution:**	1.0
Lab ID:	K1701351-004			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/08/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587766	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ14468
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_254\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.63	0.03	235913892	4,149	83	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.51	0.03	877264	42.08	0.058	U	
Pentaerythritol Tetranitrate			0**d**		0.11	U	

Prep Amount:	10.291 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	98.7 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000214.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 19:51	**Quant Date:**	03/06/2017 15:39	**Vial:**	12
Run Type:	SMPL	**ListJoinID:**	LJ15912	**Dilution:**	1.0
Lab ID:	K1701351-004			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/08/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587766	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ15912
		Method ID:	MJ1432
MB Ref:	J:\LC10\DATA\030317_8330_254\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.63	0.03	235913892	4,149	83	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.51	0.03	877264	42.08	0.058	U	
Pentaerythritol Tetranitrate			0**d**		0.11	U	

Prep Amount:	10.291 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	98.7 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000214.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 19:51:04 Operator: BR
Sample : K1701351-004 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:39:06 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
3) S	1-Chloro-3-Nitrobenzene	29.627	235913892	4148.896	ug/L
Target Compounds					
1) T	Nitroglycerin	16.513	877264	42.082	ug/L
2) T	PETN	0.000	0	N.D.	ug/L d

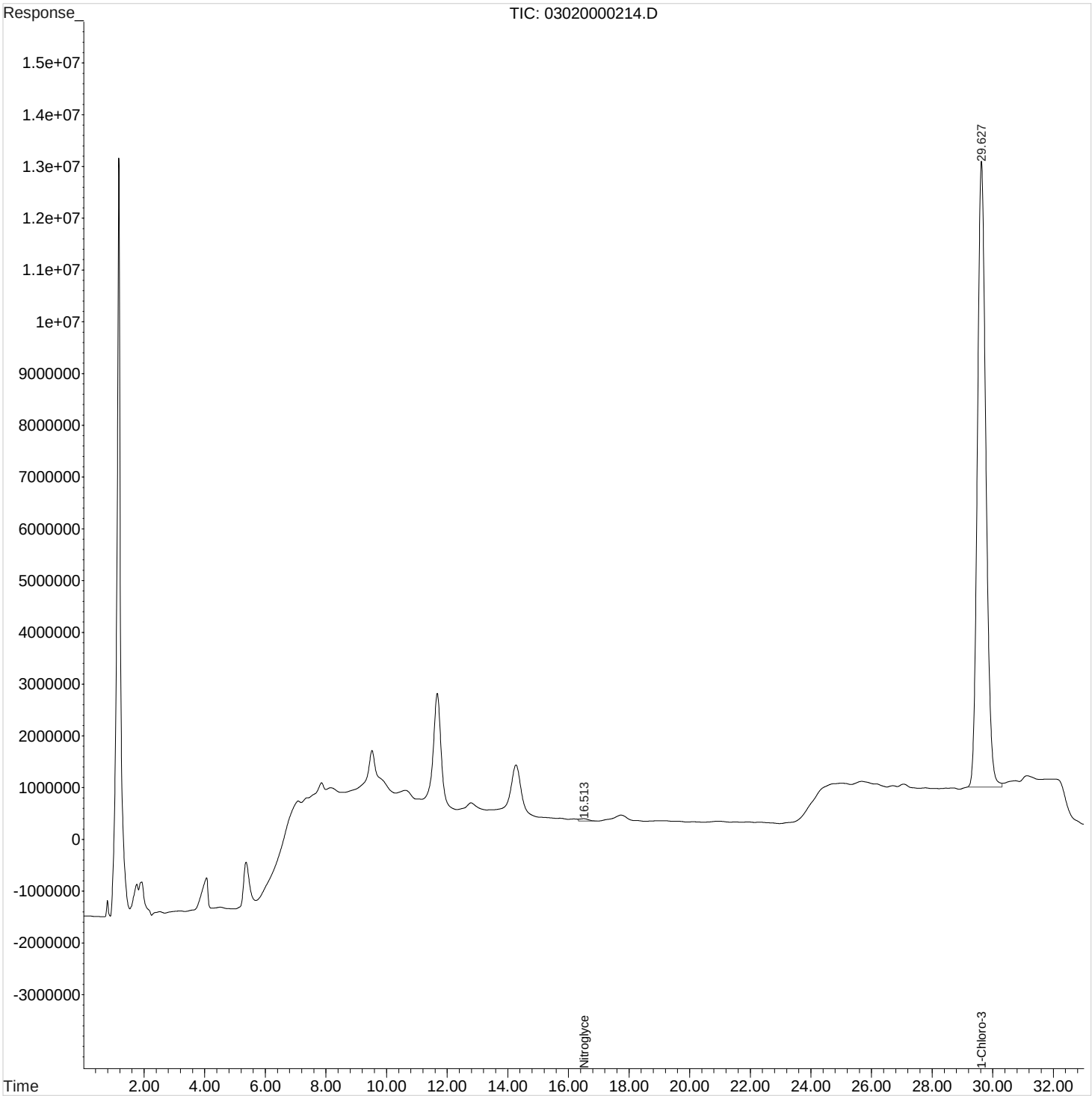
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000214.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 19:51:04 Operator: BR
Sample : K1701351-004 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:39:06 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000215.
Lab ID: K1701351-005
RunType: SMPL
Matrix: SOIL

Date Acquired: 03/02/2017 20:27
Date Quantitated: 03/09/2017 16:01
Batch ID: KWG1701858
Analysis Method: 8330B
ListJoinID: LJ15912

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000215.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 20:27	**Quant Date:**	03/09/2017 16:01	**Vial:**	13
Run Type:	SMPL	**ListJoinID:**	LJ14468	**Dilution:**	1.0
Lab ID:	K1701351-005			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/08/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701858	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587767	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ14468
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_254\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.63	0.03	89004041**m**	4,119	82	34-135	OK	

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX	4.65	-0.11	22959**m**	1.92	0.0065	U	
RDX	8.33		61174**m**	3.08	0.050	U	
1,3,5-Trinitrobenzene	10.45	0.01	32150**m**	0.7200	0.028	U	
1,3-Dinitrobenzene	13.75		118415**m**	1.96	0.013	U	
TETRYL			0**d**		0.042	U	
Nitrobenzene			0		0.0045	U	
2,4,6-Trinitrotoluene	17.34	0.05	1483417	35.61	0.029	J	
4-Amino-2,6-dinitrotoluene			0**d**		0.0052	U	
2-Amino-4,6-dinitrotoluene			0		0.0076	U	
2,6-Dinitrotoluene			0**d**		0.0052	U	
2,4-Dinitrotoluene	22.11	0.05	4175558	70.49	0.057	J	
2-Nitrotoluene			0		0.0072	U	
4-Nitrotoluene			0		0.019	U	
3-Nitrotoluene	27.11	-0.17	162673**m**	8.08	0.019	U	

Prep Amount:	10.120 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	98.6 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000215.D Vial: 13
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 20:27:17 Operator: BR
Sample : K1701351-005 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 09 16:01:15 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
18) S	1-Chloro-3-Nitrobenzene	29.633	89004041	4118.808	ug/L	m
	Target Compounds					
1) T	2,6-Diamino-4-nitroto...	4.266	666	NoCal	ug/L	
2) T	HMX	4.646f	22959	1.917	ug/L	m
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4) T	RDX	8.326	61174	3.080	ug/L	m
5) T	1,3,5-TNB	10.453	32150	0.720	ug/L	m
6) T	1,3-DNB	13.753	118415	1.964	ug/L	m
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L	
8) T	Tetryl	0.000	0	N.D.	ug/L	d
9) T	Nitrobenzene	0.000	0	N.D.	ug/L	
10) T	2,4,6-TNT	17.340	1483417	35.613	ug/L	
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L	d
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L	
13) T	2,6-DNT	0.000	0	N.D.	ug/L	d
14) T	2,4-DNT	22.113	4175558	70.491	ug/L	
15) T	2-NT	0.000	0	N.D.	ug/L	
16) T	4-NT	0.000	0	N.D.	ug/L	
17) T	3-NT	27.113	162673	8.079	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

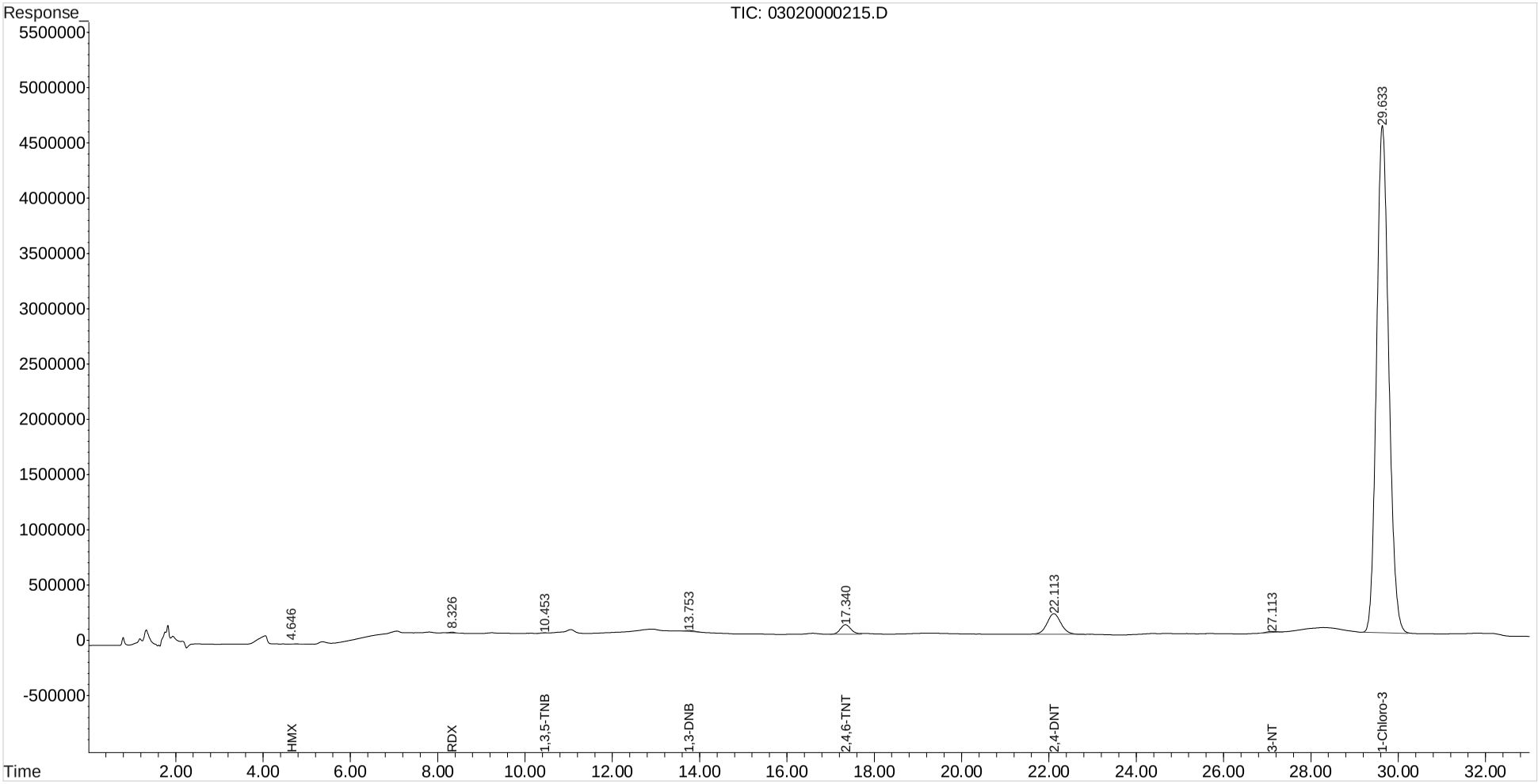
[redacted] (9) (g) 03/14/17 03/29/17

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000215.D Vial: 13
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 20:27:17 Operator: BR
Sample : K1701351-005 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 09 16:01:15 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



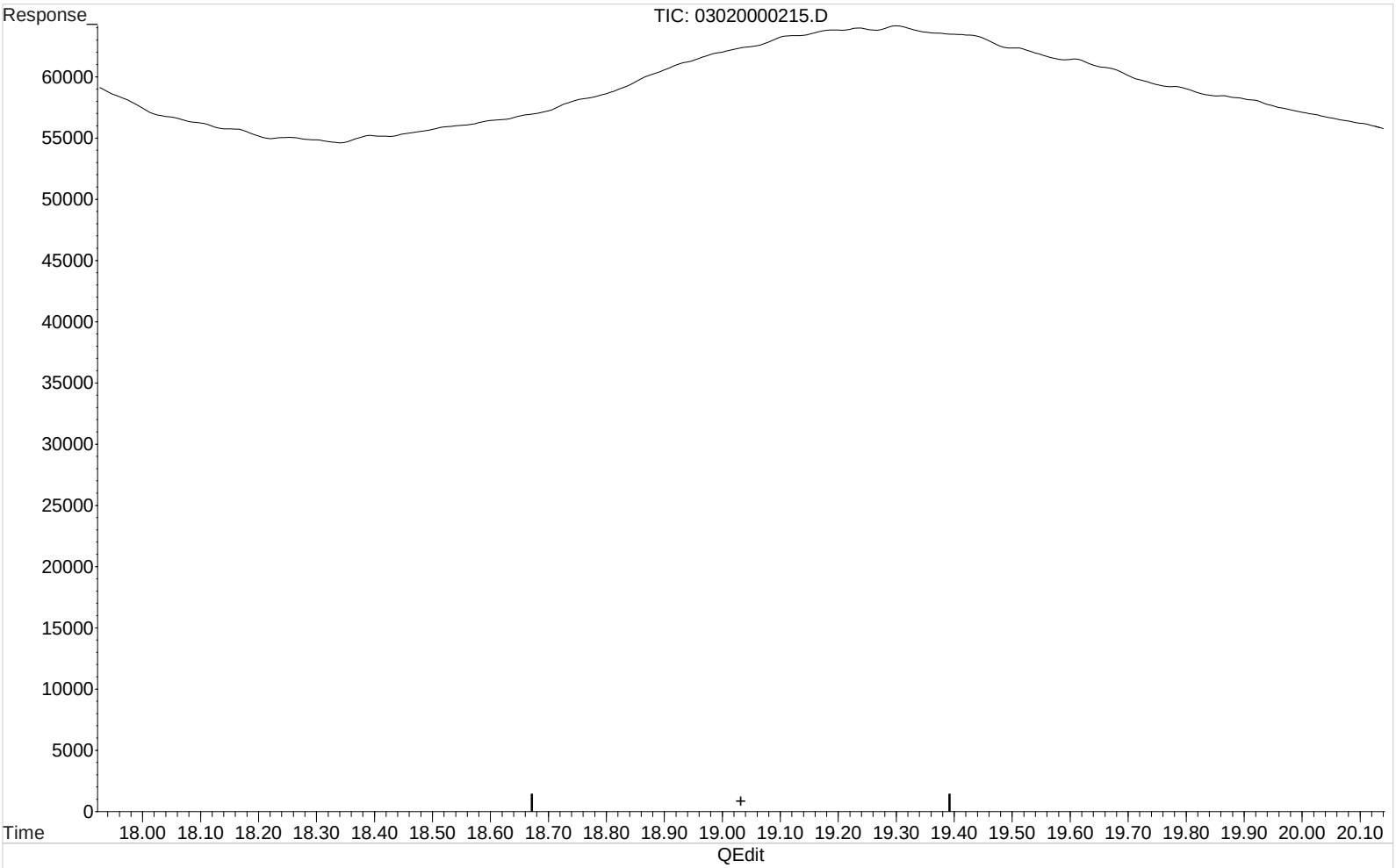
011999

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000215.D Vial: 13
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 20:27:17 Operator: BR
Sample : K1701351-005 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:49 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(11) 4-Amino-2,6-DNT (T)

19.032min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

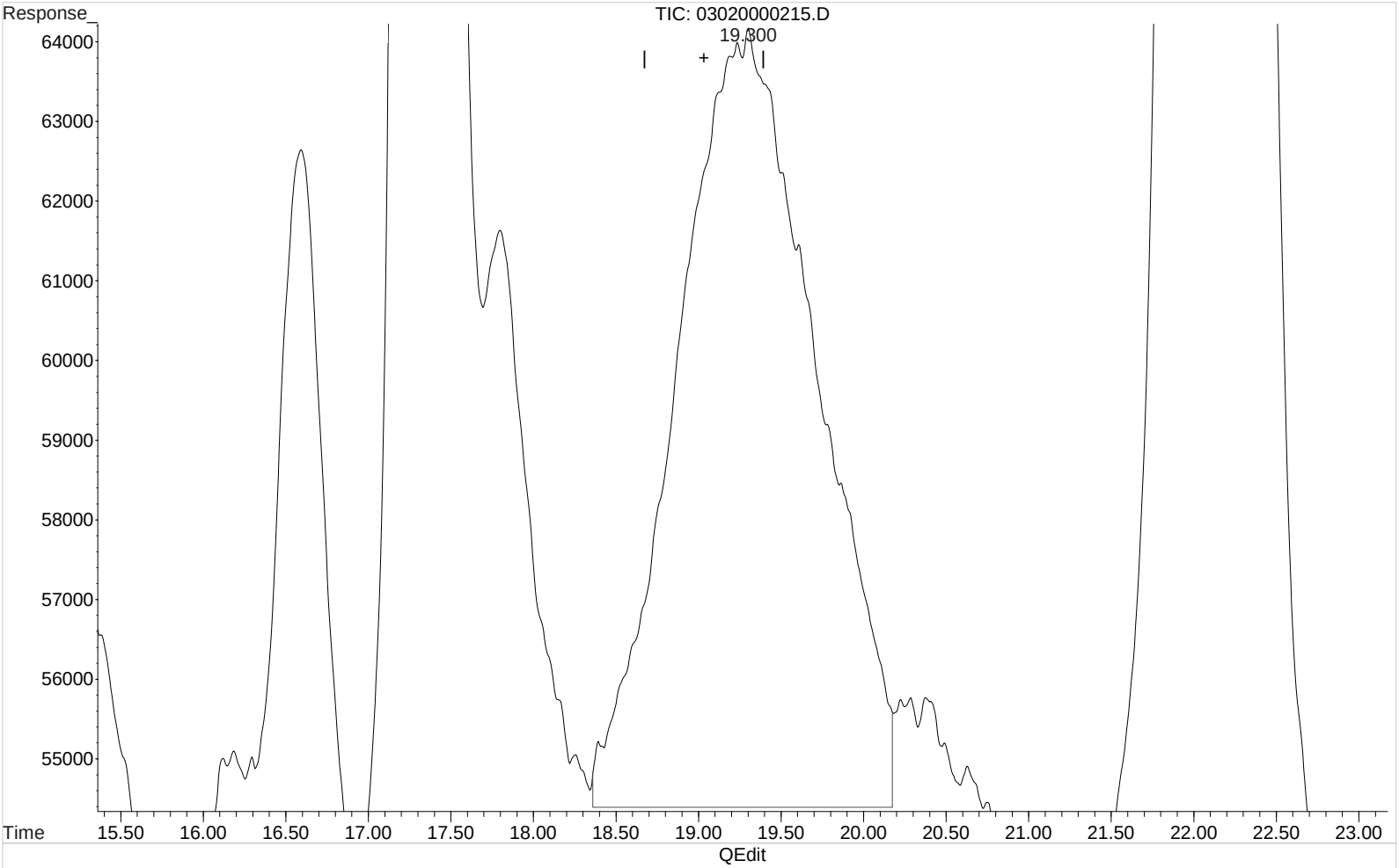
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000215.D Vial: 13
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 20:27:17 Operator: BR
Sample : K1701351-005 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:49 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(11) 4-Amino-2,6-DNT (T)

19.300min 19.432 ug/L m

response 573517

Manual Integration:

After

BLC

03/08/17

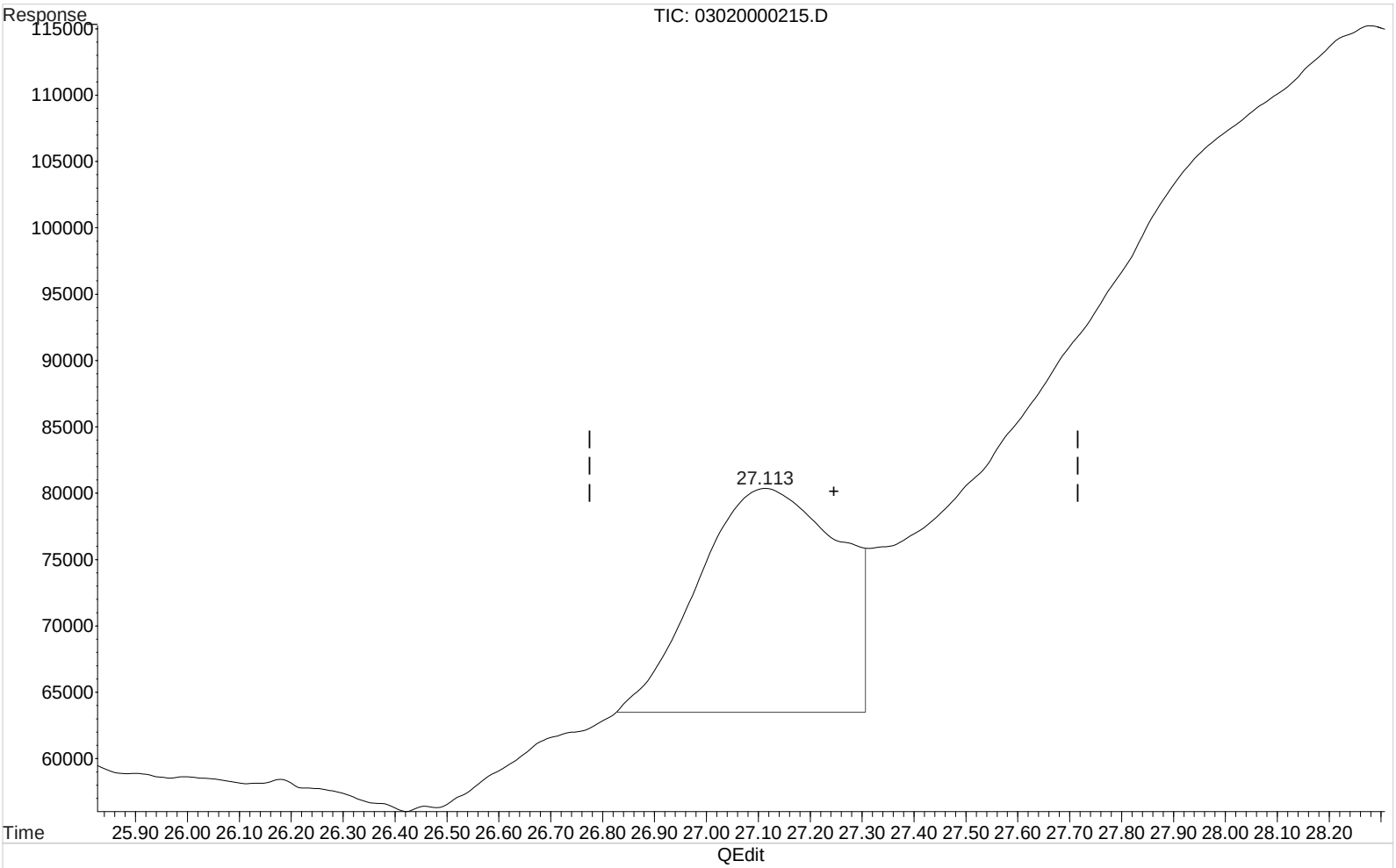
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000215.D Vial: 13
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 20:27:17 Operator: BR
Sample : K1701351-005 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:49 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(17) 3-NT (T)

27.113min 15.900 ug/L

response 320169

Manual Integration:

Before

03/08/17

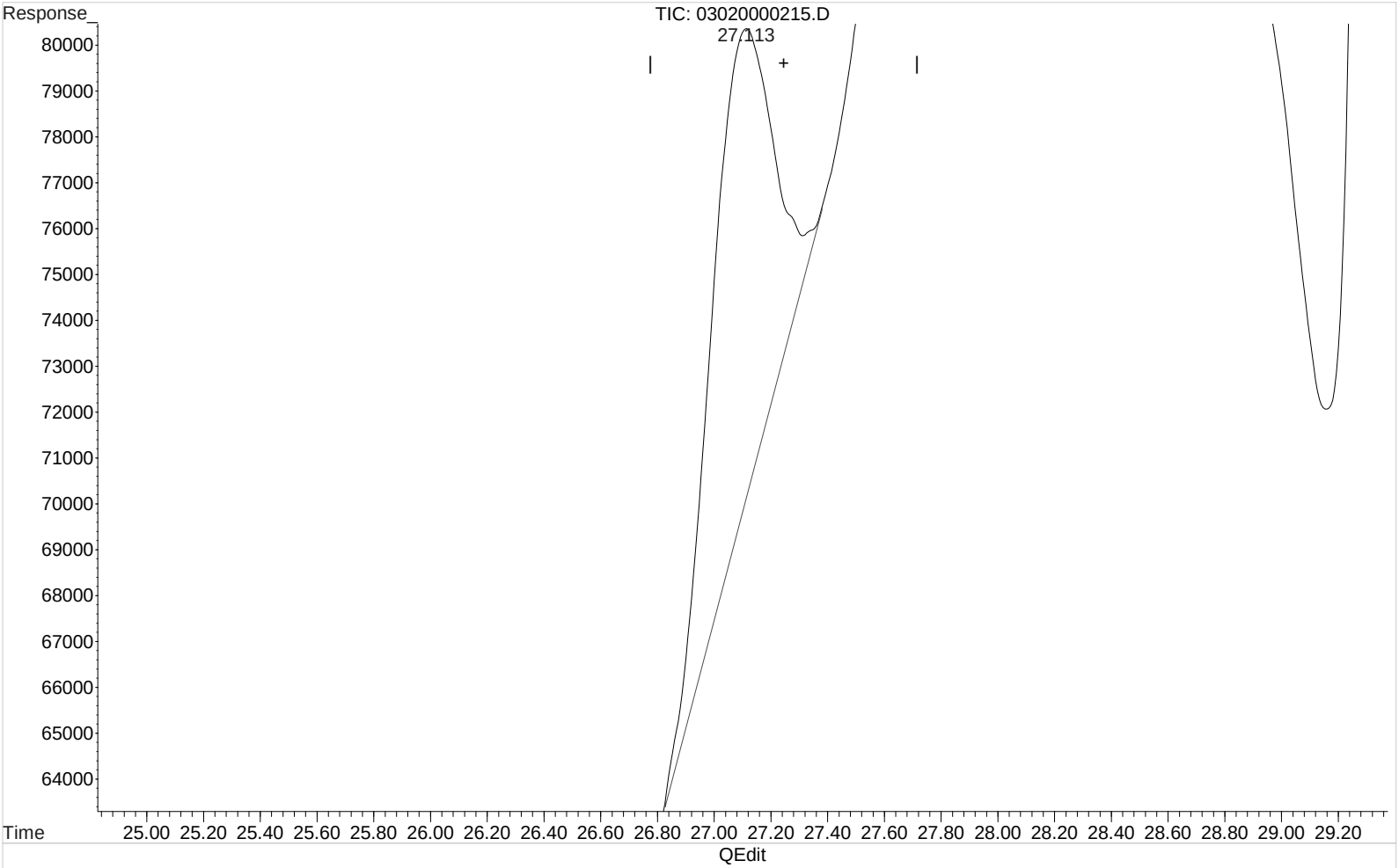
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000215.D Vial: 13
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 20:27:17 Operator: BR
Sample : K1701351-005 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:49 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.113min 8.079 ug/L m

response 162673

Manual Integration:

After

BLC

03/08/17

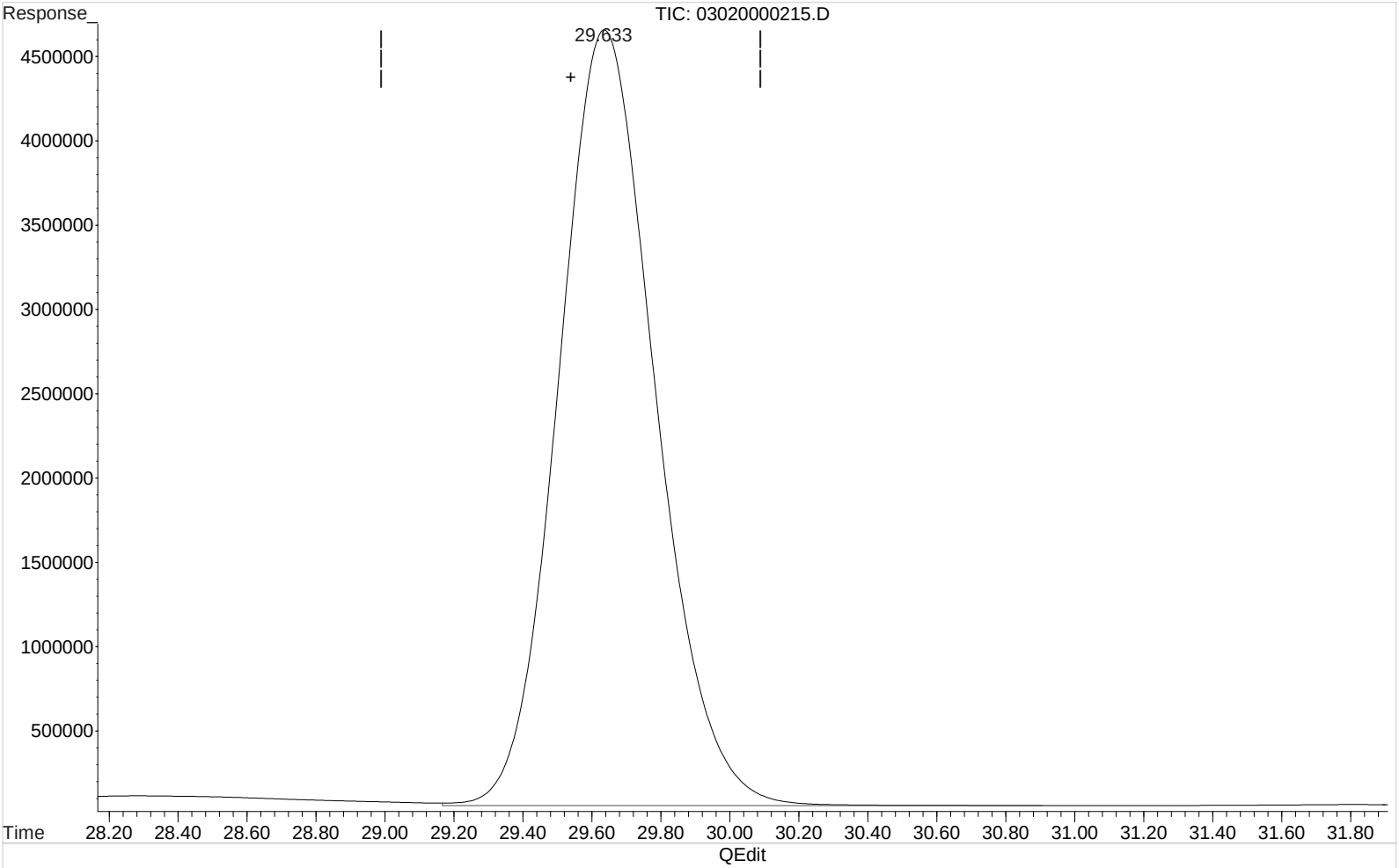
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000215.D Vial: 13
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 20:27:17 Operator: BR
Sample : K1701351-005 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:49 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(18) 1-Chloro-3-Nitrobenzene (S)

29.633min 4152.333 ug/L

response 89728498

Manual Integration:

Before

03/08/17

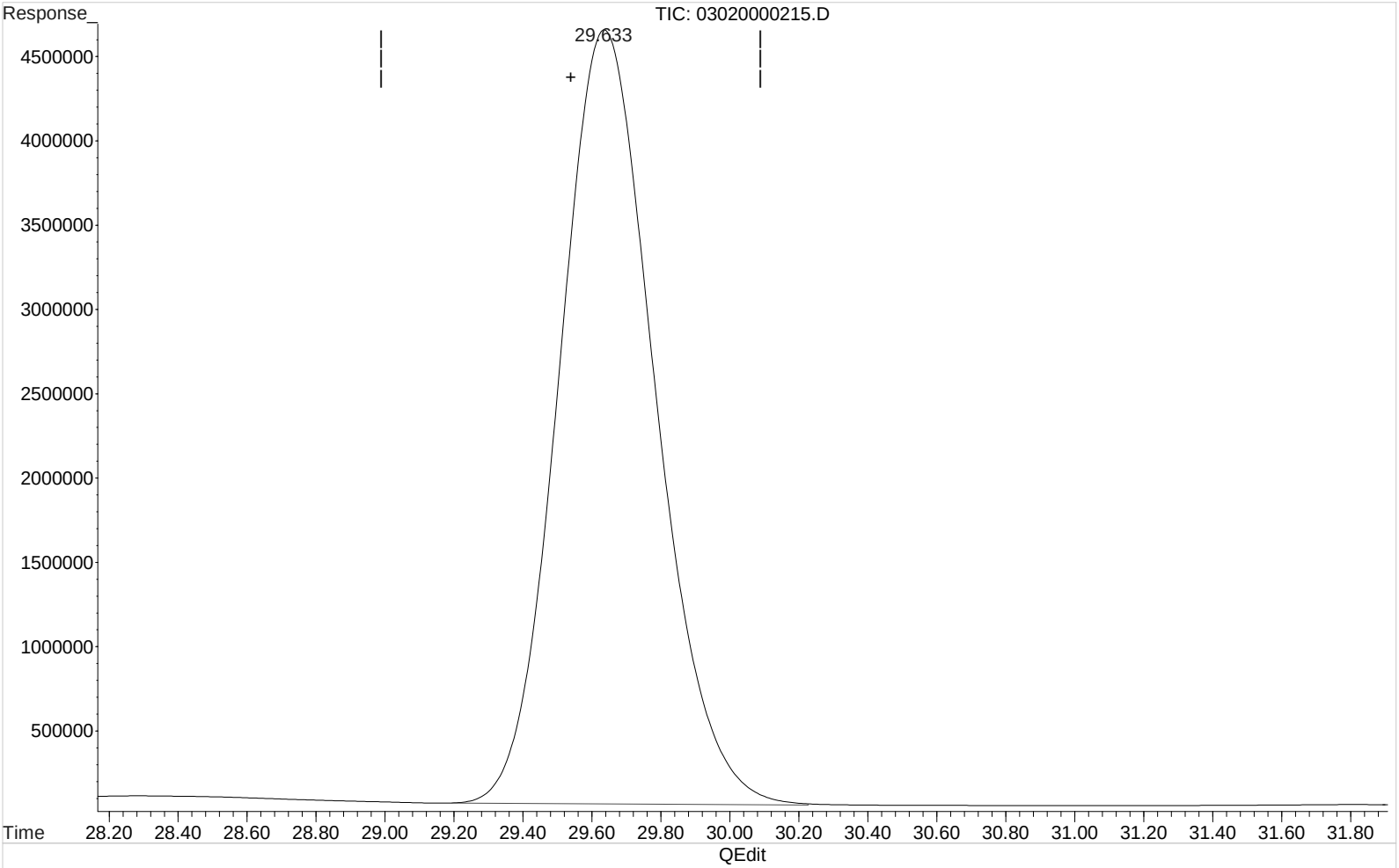
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000215.D Vial: 13
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 20:27:17 Operator: BR
Sample : K1701351-005 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:49 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(18) 1-Chloro-3-Nitrobenzene (S)

29.633min 4118.808 ug/L m

response 89004041

Manual Integration:

After

BLC

03/08/17

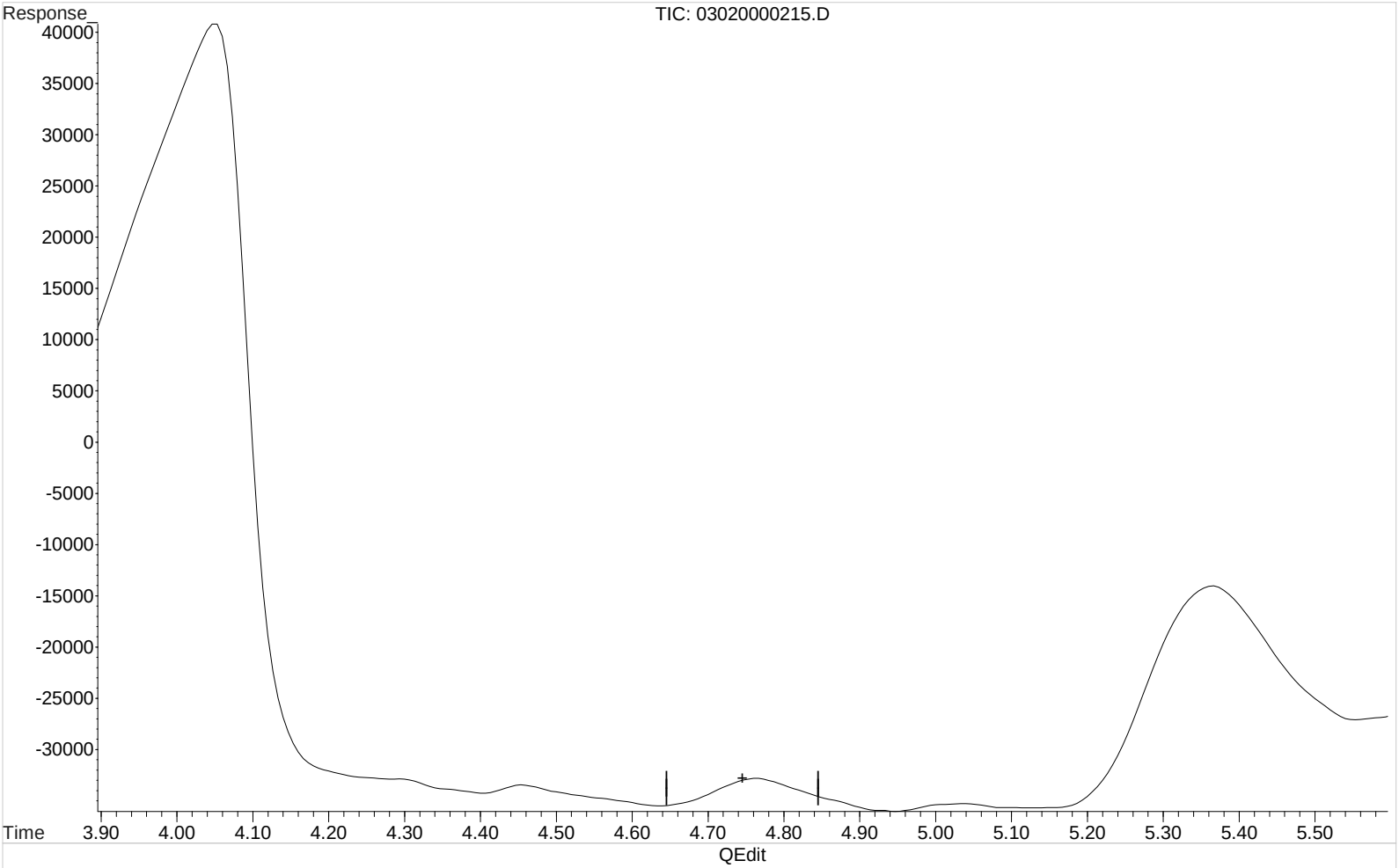
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000215.D Vial: 13
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 20:27:17 Operator: BR
Sample : K1701351-005 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:49 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(2) HMX (T)

4.766min 2.272 ug/L

response 27206

Manual Integration:

Before

03/08/17

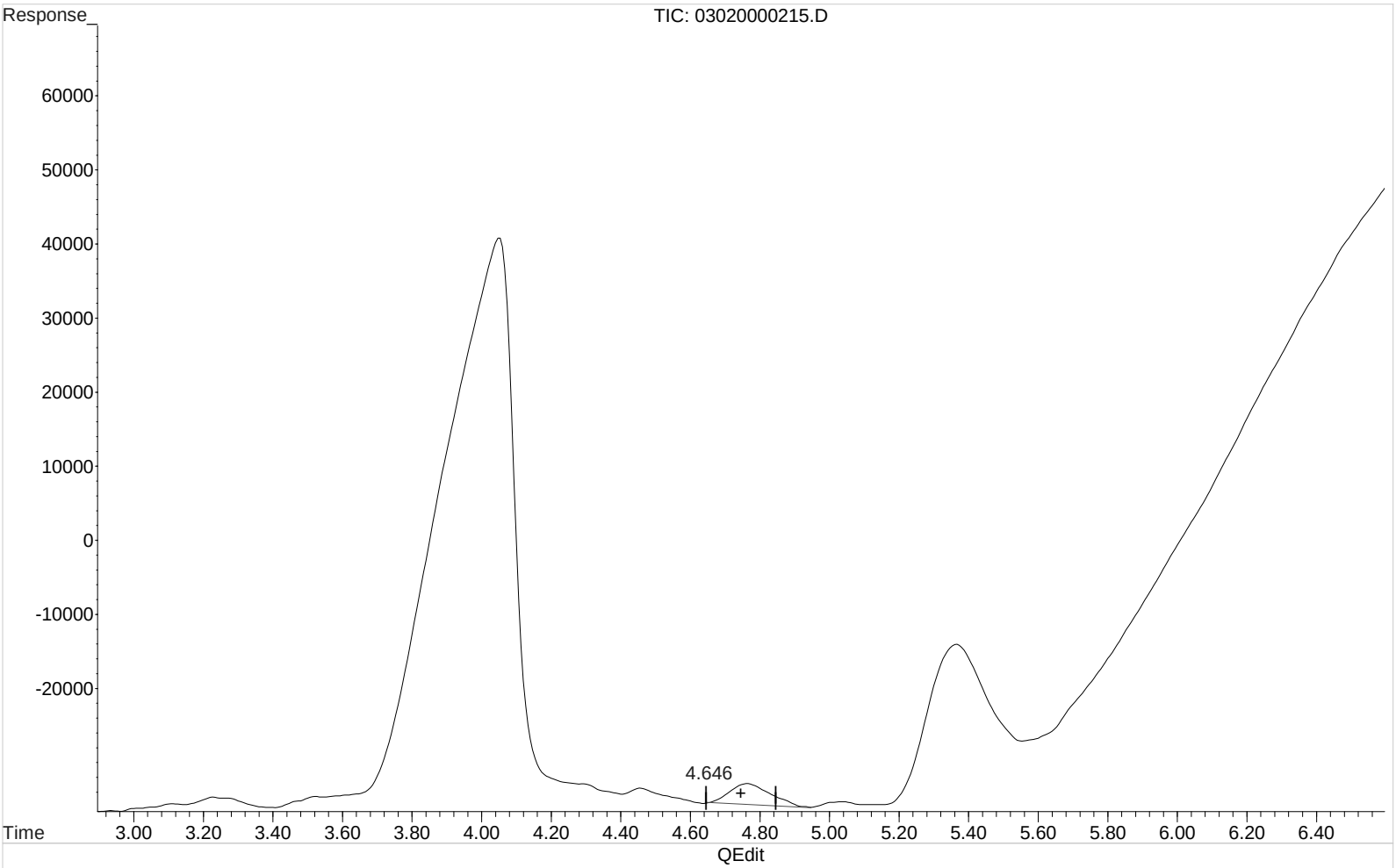
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000215.D Vial: 13
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 20:27:17 Operator: BR
Sample : K1701351-005 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:49 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(2) HMX (T)

4.646min 1.917 ug/L m

response 22959

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

(b) (6)

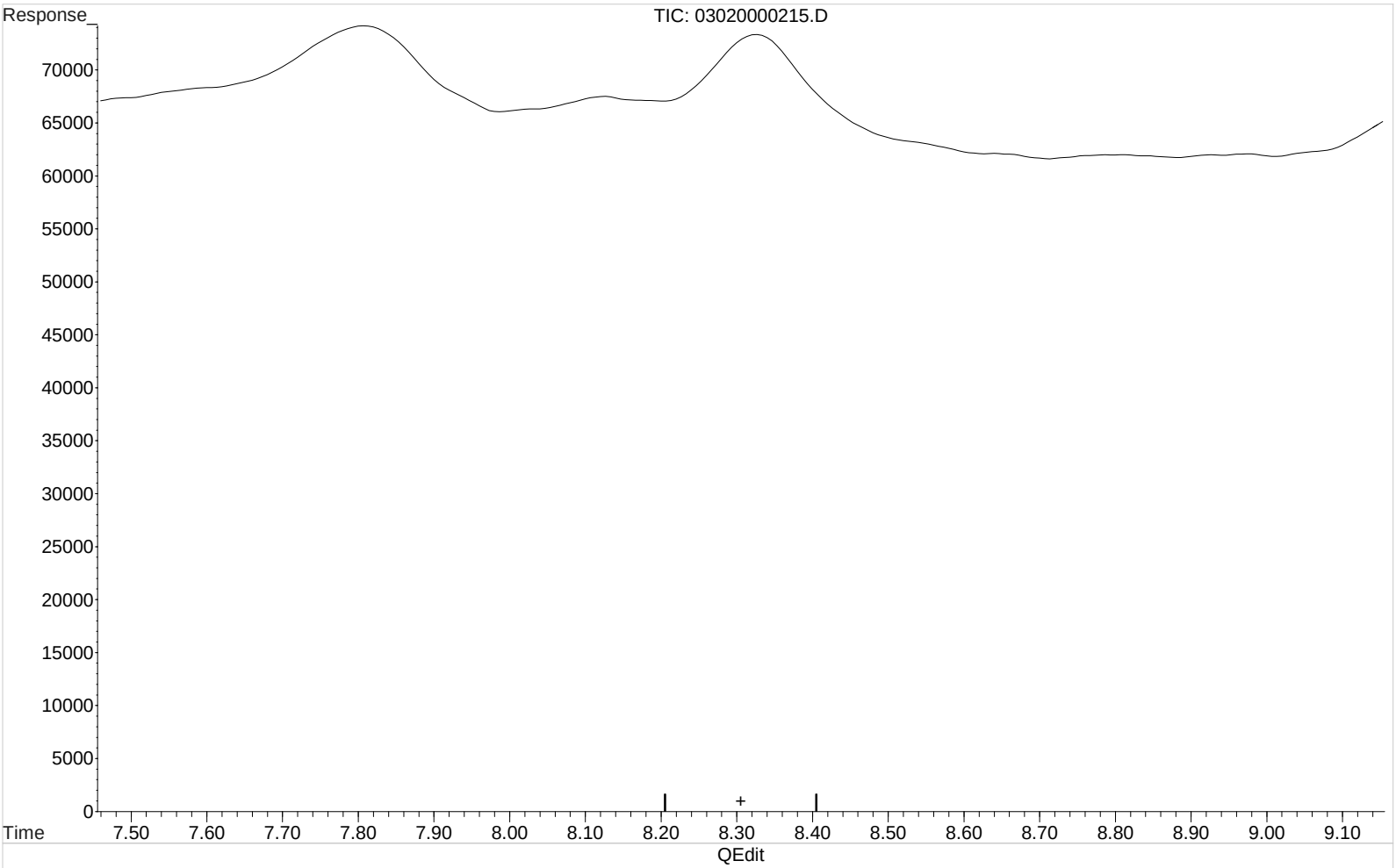
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000215.D Vial: 13
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 20:27:17 Operator: BR
Sample : K1701351-005 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:49 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(4) RDX (T)

0.000min 0.000 ug/L d

response 0

Manual Integration:

Before

03/08/17

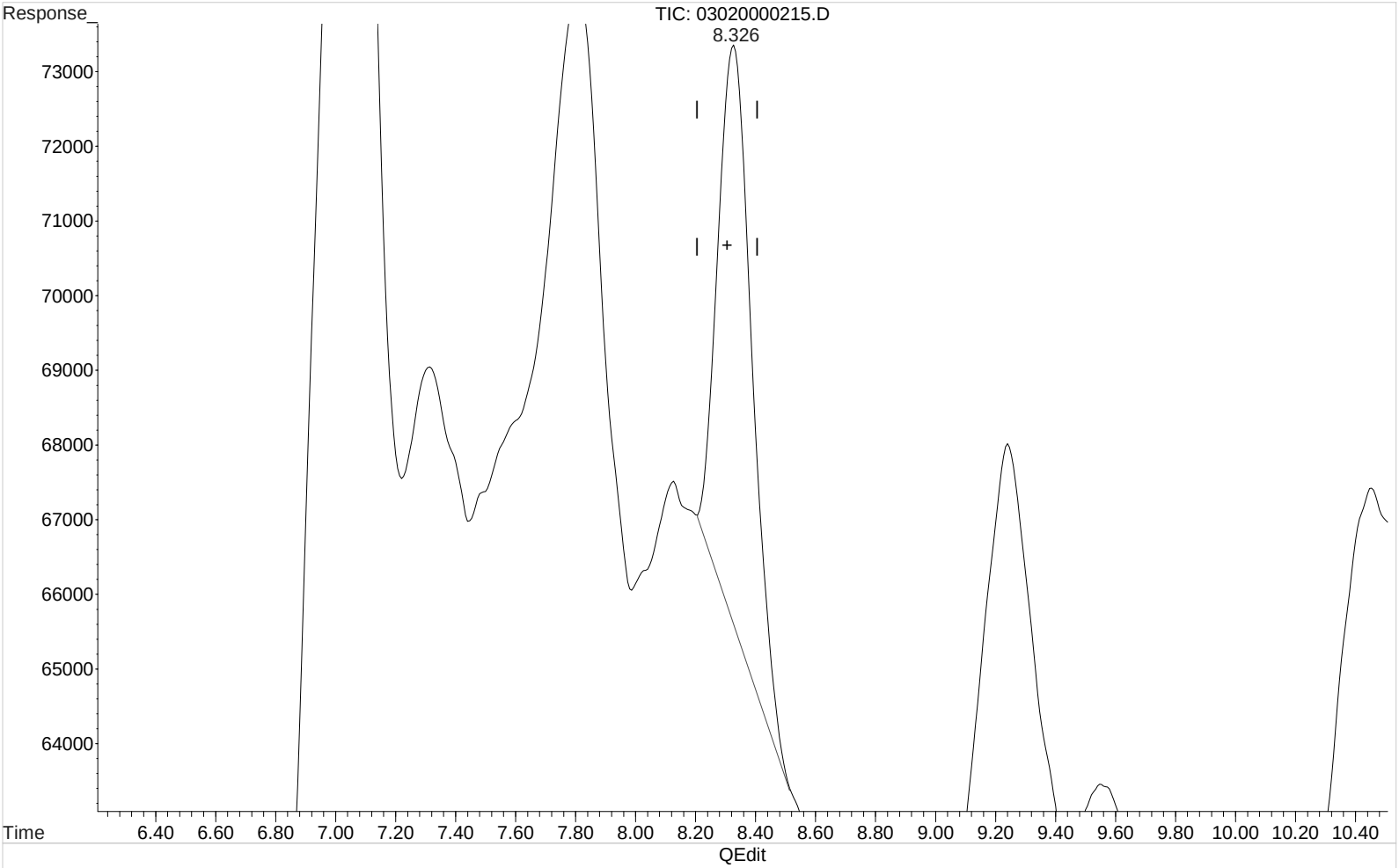
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000215.D Vial: 13
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 20:27:17 Operator: BR
Sample : K1701351-005 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:49 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(4) RDX (T)

8.326min 3.080 ug/L m

response 61174

Manual Integration:

After

BLC

03/08/17

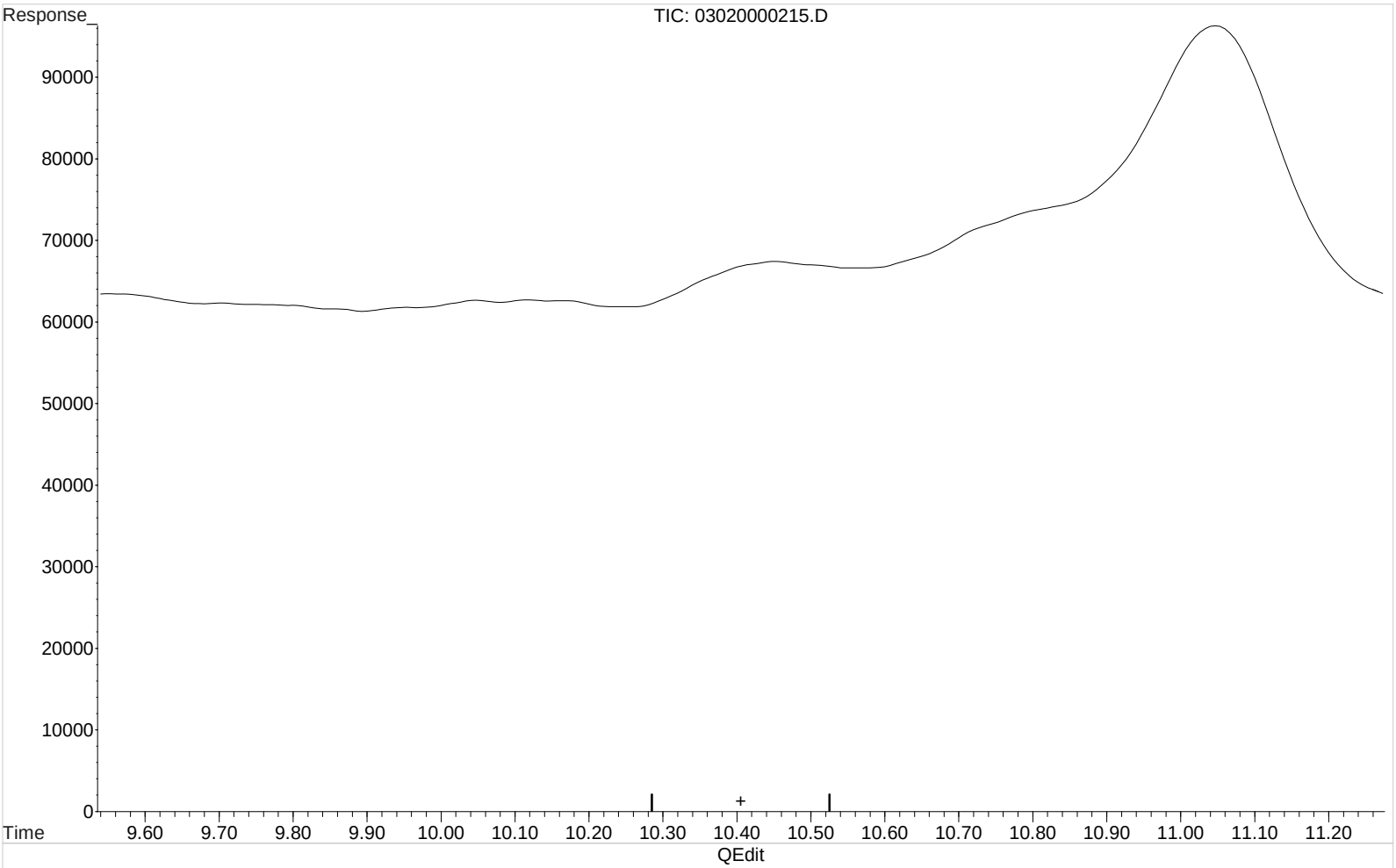
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000215.D Vial: 13
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 20:27:17 Operator: BR
Sample : K1701351-005 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:49 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(5) 1,3,5-TNB (T)

10.405min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

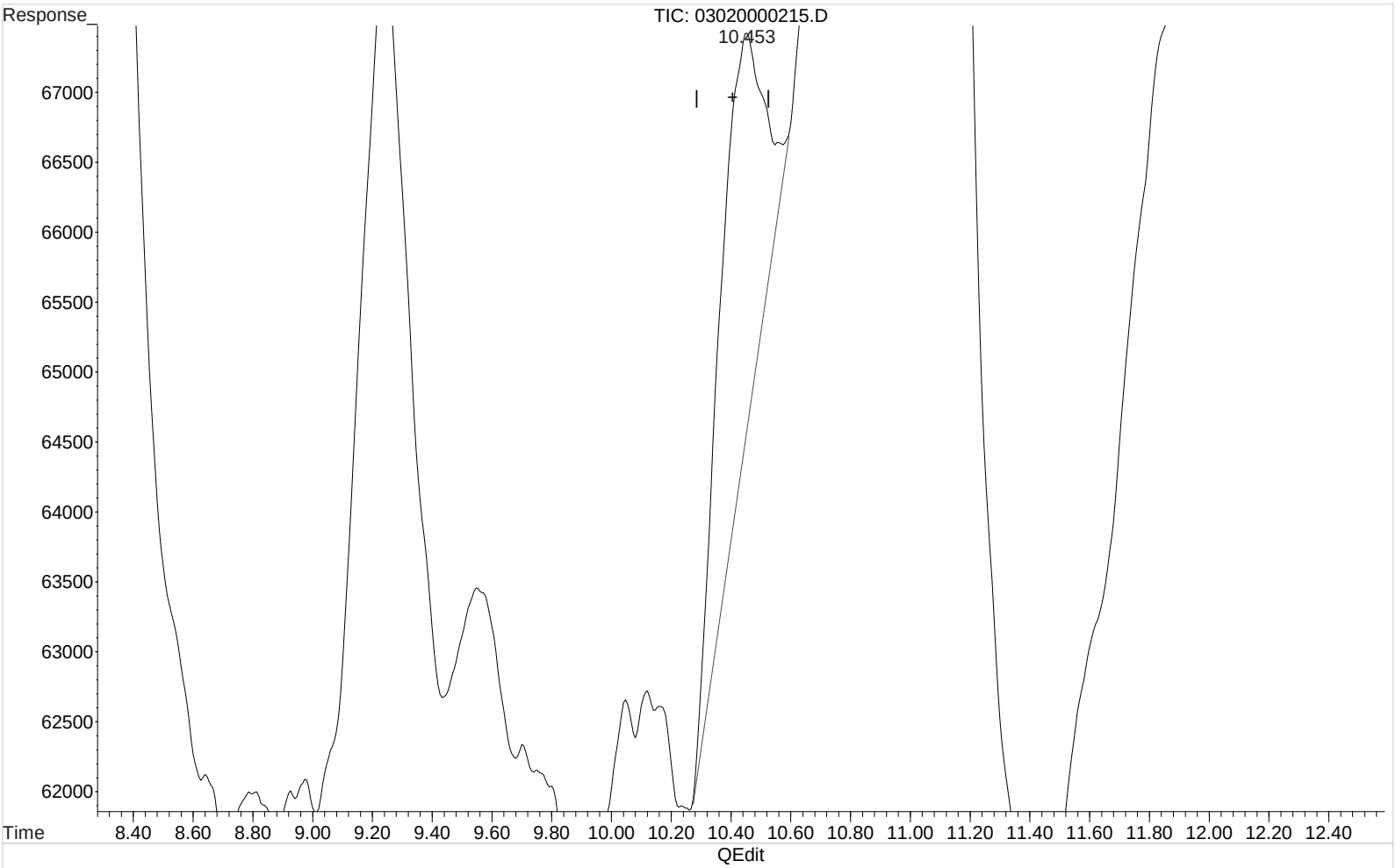
(+) = Expected Retention Time

(b) (6) /14/17 /29/17

Data File : J:\LC10\Data\030317_8330_254\03020000215.D Vial: 13
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 20:27:17 Operator: BR
Sample : K1701351-005 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:49 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(5) 1,3,5-TNB (T)

10.453min 0.720 ug/L m

response 32150

Manual Integration:

After

BLC

03/08/17

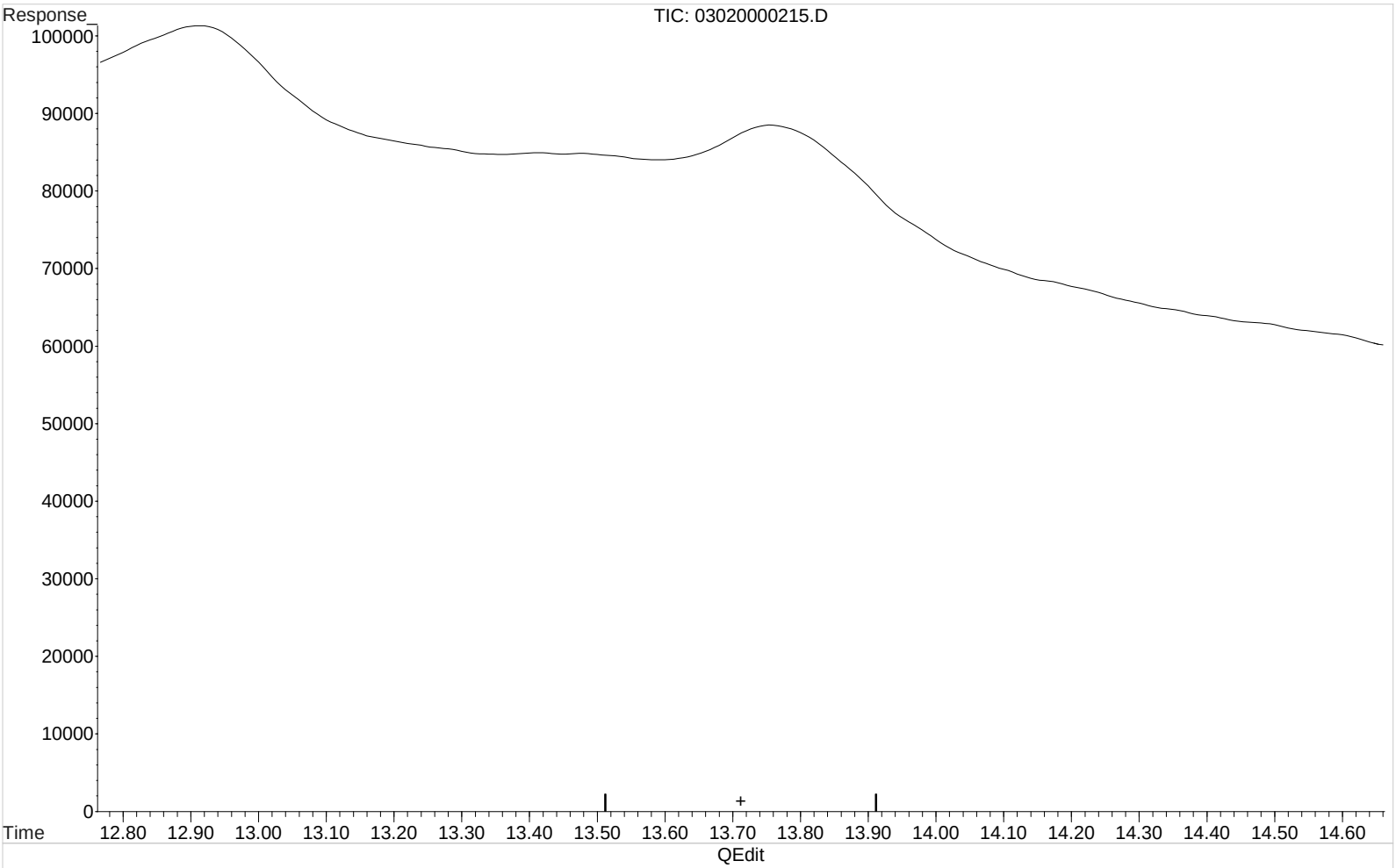
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000215.D Vial: 13
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 20:27:17 Operator: BR
Sample : K1701351-005 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:49 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(6) 1,3-DNB (T)

13.712min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

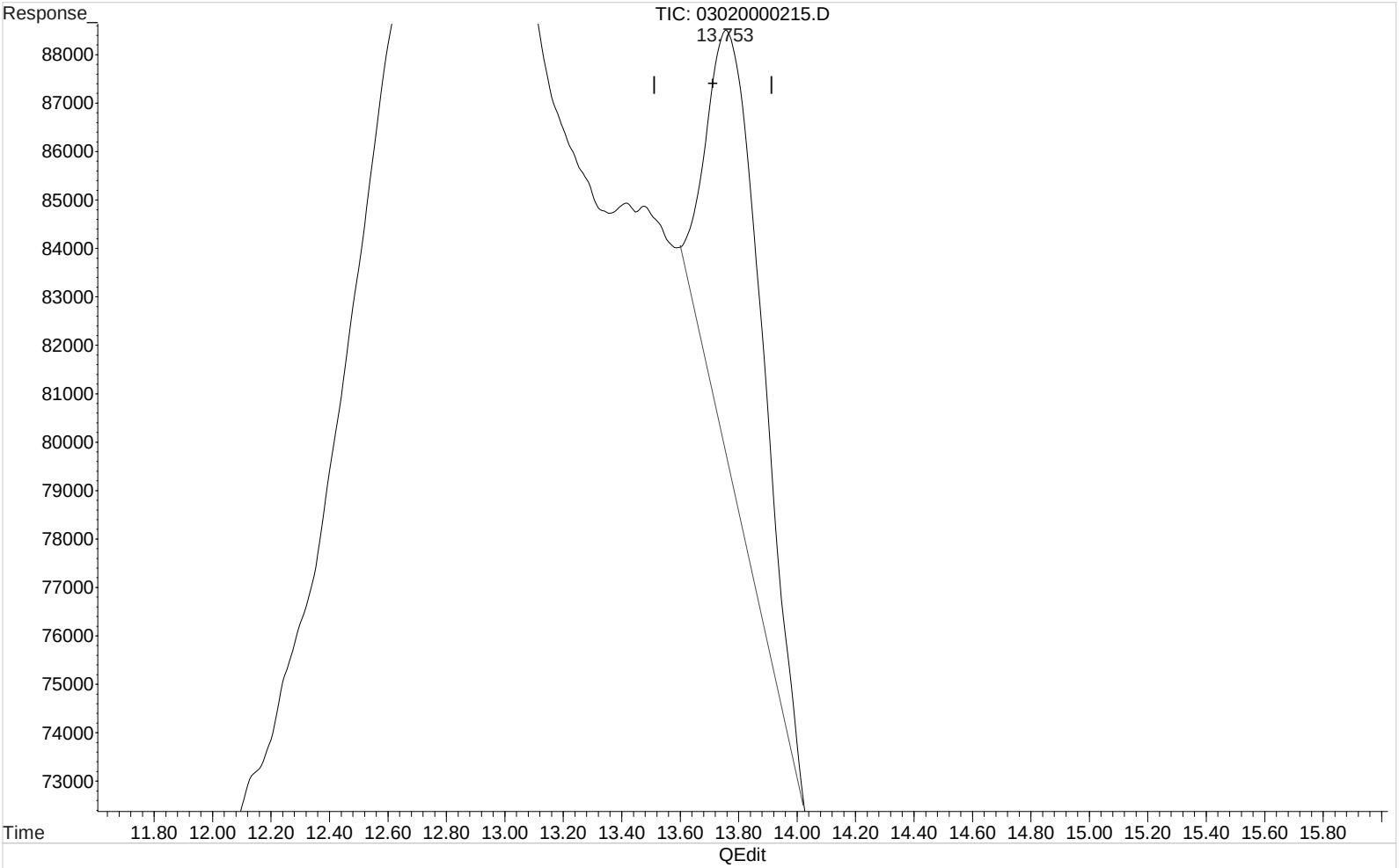
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000215.D Vial: 13
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 20:27:17 Operator: BR
Sample : K1701351-005 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:49 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(6) 1,3-DNB (T)

13.753min 1.964 ug/L m

response 118415

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000215.D Vial: 13
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 20:27:17 Operator: BR
Sample : K1701351-005 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:49 2017
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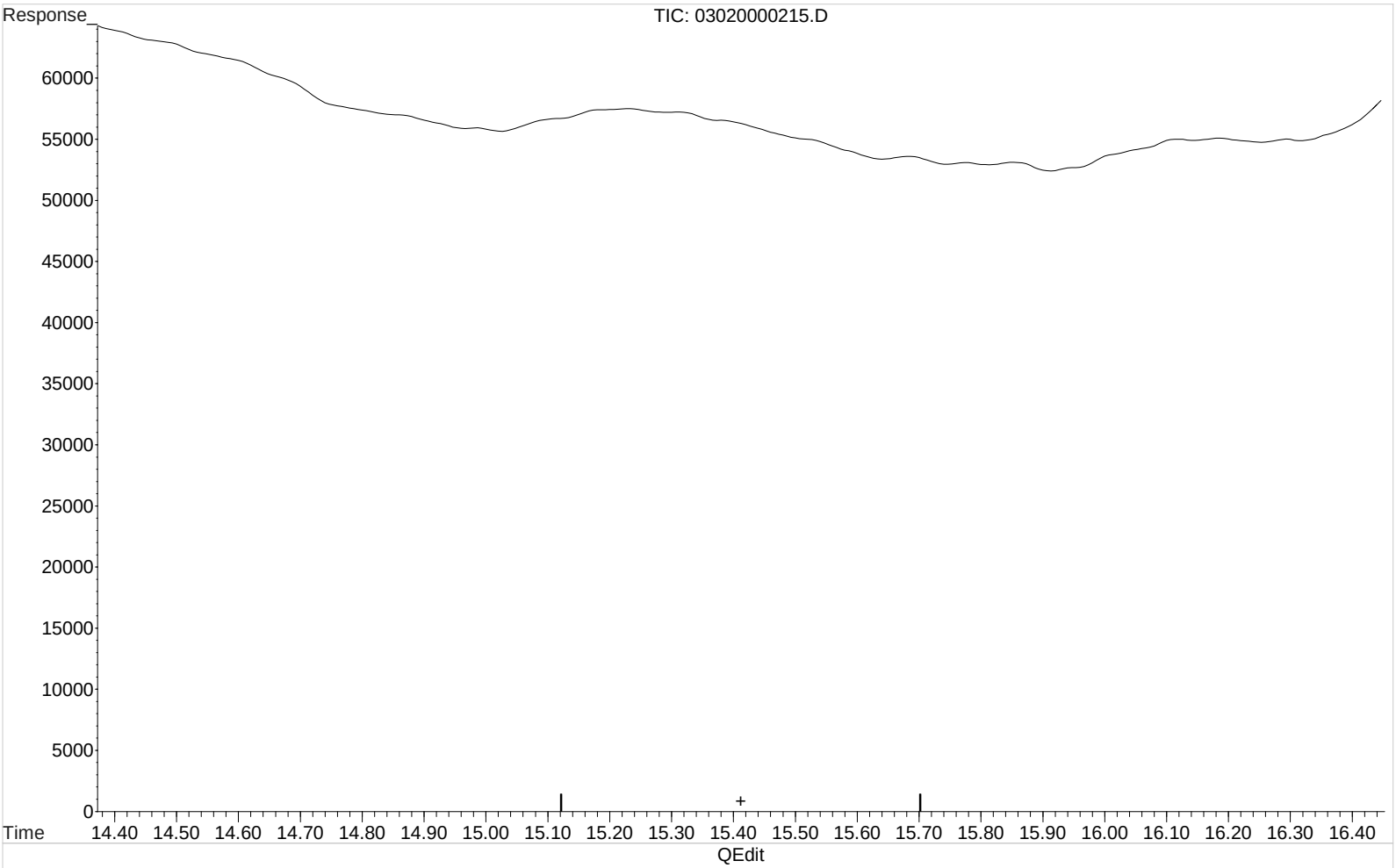
Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.412min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

(+) = Expected Retention Time

(b) (6)

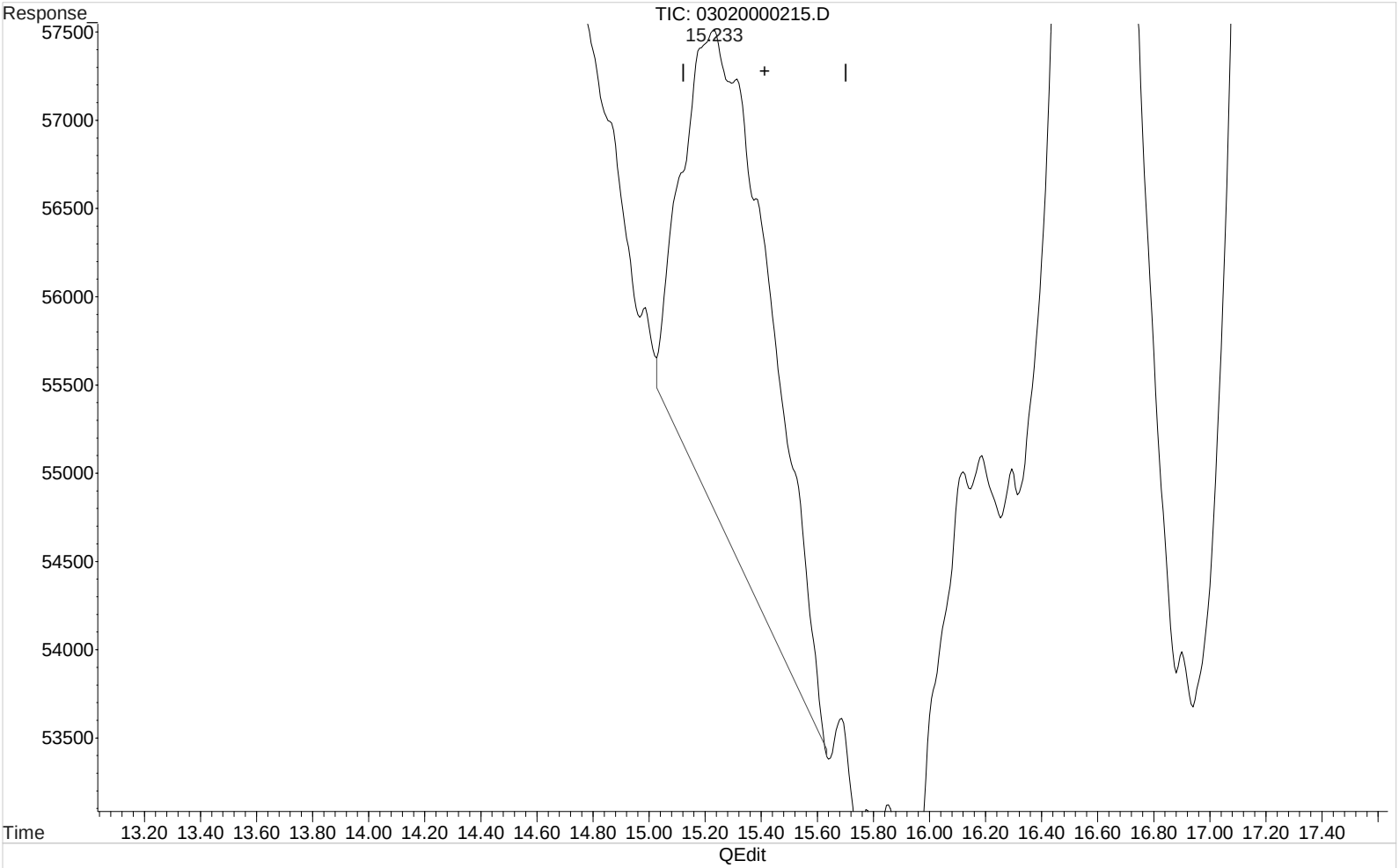
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000215.D Vial: 13
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 20:27:17 Operator: BR
Sample : K1701351-005 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:49 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.233min 1.826 ug/L m

response 60995

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000215.
Lab ID: K1701351-005
RunType: SMPL
Matrix: SOIL

Date Acquired: 03/02/2017 20:27
Date Quantitated: 03/08/2017 13:43
Batch ID: KWG1701860
Analysis Method: 8330B
ListJoinID: LJ15912

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000215.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 20:27	**Quant Date:**	03/08/2017 13:43	**Vial:**	13
Run Type:	SMPL	**ListJoinID:**	LJ14468	**Dilution:**	1.0
Lab ID:	K1701351-005			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/08/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587767	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ14468
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_254\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.63	0.03	235831371	4,147	83	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.59	0.11	557854**m**	26.76	0.059	U	
Pentaerythritol Tetranitrate			0**d**		0.12	U	

Prep Amount:	10.120 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	98.6 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000215.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 20:27	**Quant Date:**	03/08/2017 13:43	**Vial:**	13
Run Type:	SMPL	**ListJoinID:**	LJ15912	**Dilution:**	1.0
Lab ID:	K1701351-005			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/08/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587767	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ15912
		Method ID:	MJ1432
MB Ref:	J:\LC10\DATA\030317_8330_254\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.63	0.03	235831371	4,147	83	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.59	0.11	557854**m**	26.76	0.059	U	
Pentaerythritol Tetranitrate			0**d**		0.12	U	

Prep Amount:	10.120 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	98.6 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000215.D Vial: 13
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 20:27:17 Operator: BR
Sample : K1701351-005 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 13:43:44 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.633	235831371	4147.445	ug/L	
Target Compounds						
1) T	Nitroglycerin	16.586	557854	26.760	ug/L	m
2) T	PETN	0.000	0	N.D.	ug/L	d

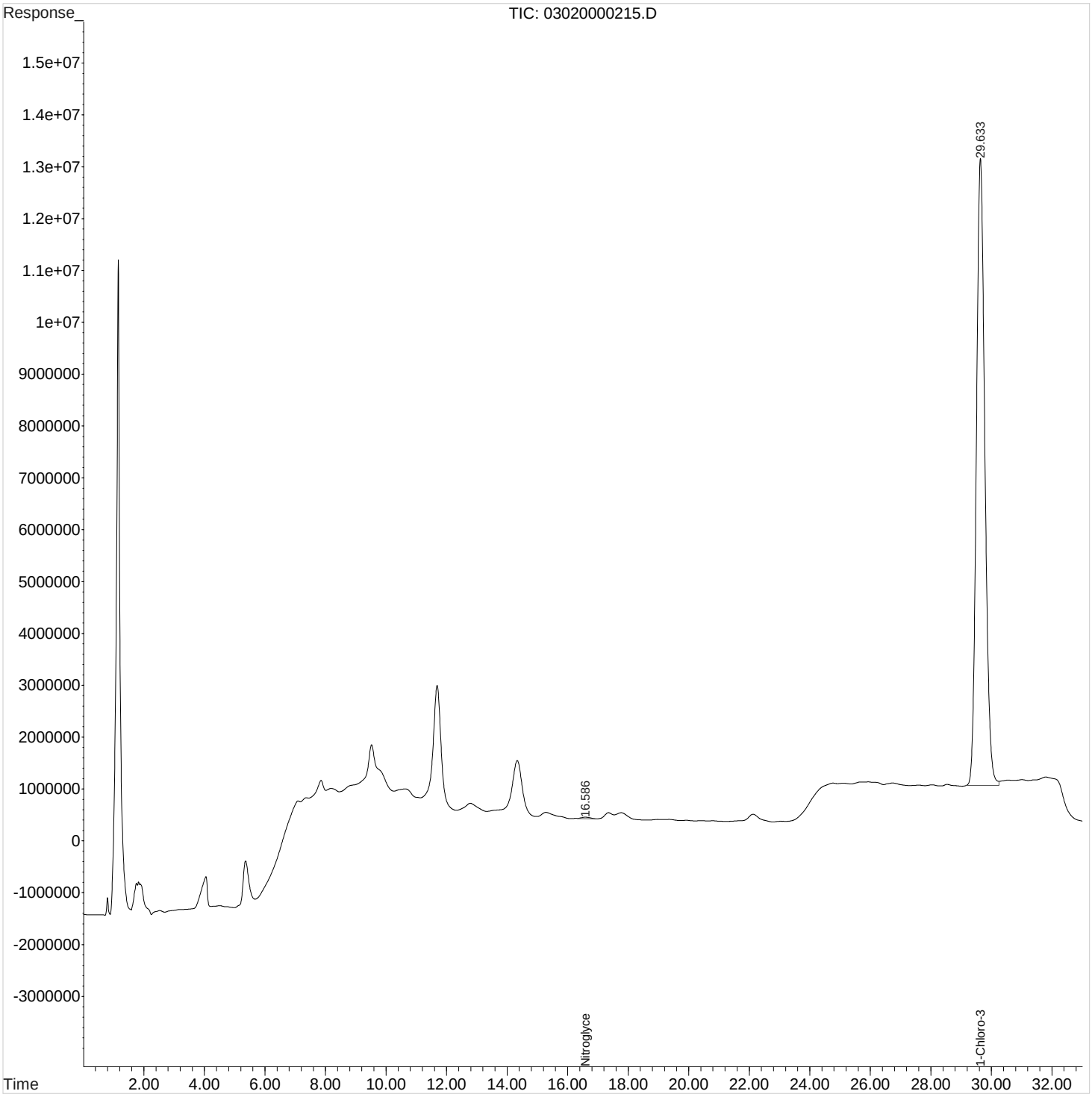
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000215.D Vial: 13
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 20:27:17 Operator: BR
Sample : K1701351-005 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 13:43:44 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

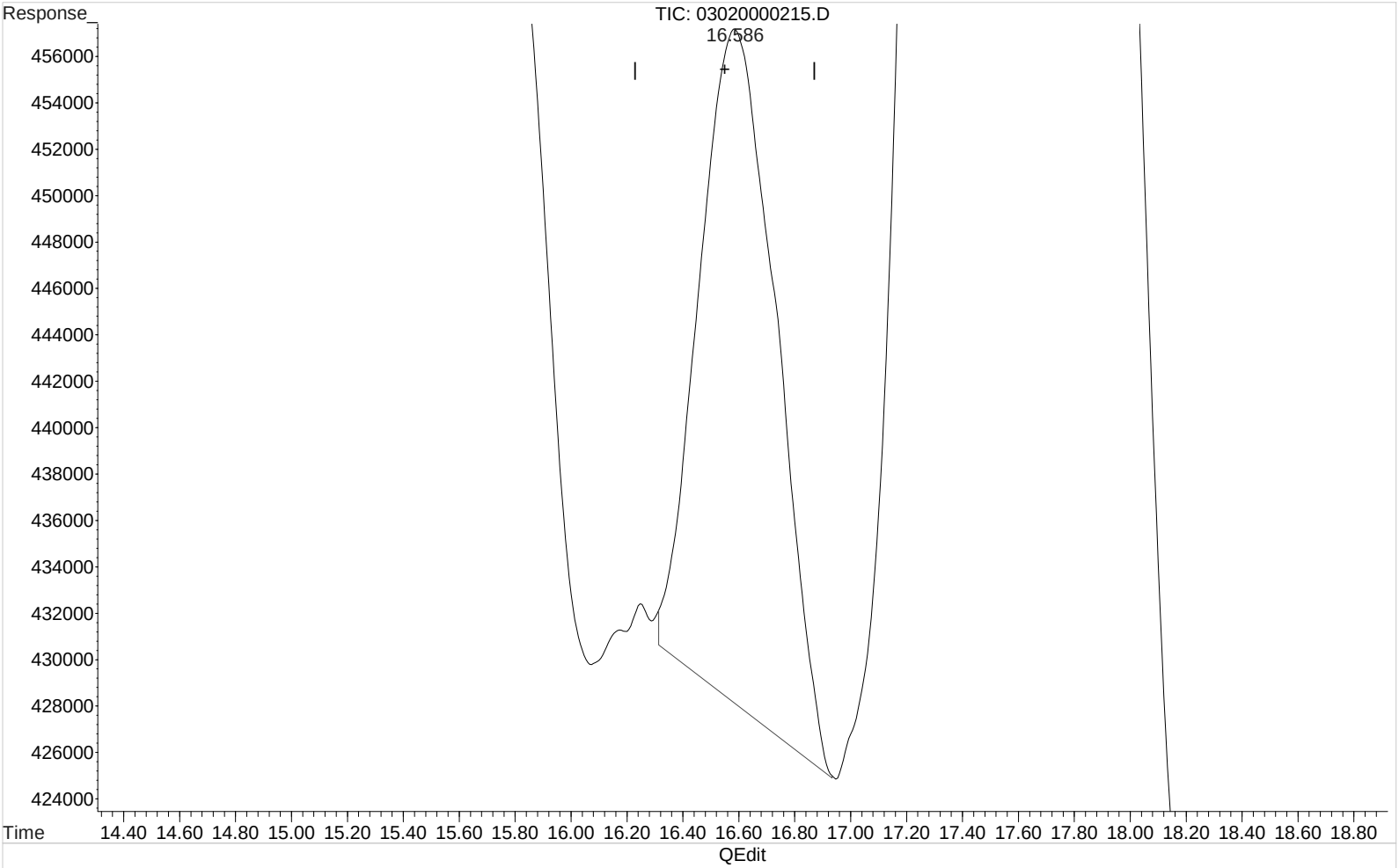


Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000215.D Vial: 13
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 20:27:17 Operator: BR
Sample : K1701351-005 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:42:13 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.586min 26.760 ug/L m

response 557854

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000216.
Lab ID: K1701351-006
RunType: SMPL
Matrix: SOIL

Date Acquired: 03/02/2017 21:03
Date Quantitated: 03/09/2017 16:05
Batch ID: KWG1701858
Analysis Method: 8330B
ListJoinID: LJ15912

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000216.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 21:03	**Quant Date:**	03/09/2017 17:05	**Vial:**	14
Run Type:	SMPL	**ListJoinID:**	LJ14468	**Dilution:**	1.0
Lab ID:	K1701351-006			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/07/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701858	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587768	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ14468
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_254\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.62	0.02	88248253	4,084	82	34-135	OK	

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0		0.0064	U	
RDX			0		0.049	U	
1,3,5-Trinitrobenzene			0		0.027	U	
1,3-Dinitrobenzene	13.74	-0.01	68259**m**	1.13	0.012	U	
TETRYL			0		0.041	U	
Nitrobenzene	16.07	-0.01	530070**m**	13.73	0.011	J	
2,4,6-Trinitrotoluene	17.20	-0.09	58500**m**	1.40	0.018	U	
4-Amino-2,6-dinitrotoluene			0		0.0051	U	
2-Amino-4,6-dinitrotoluene			0		0.0075	U	
2,6-Dinitrotoluene			0		0.0051	U	
2,4-Dinitrotoluene	22.19	0.13	158310**m**	2.67	0.041	U	
2-Nitrotoluene			0		0.0071	U	
4-Nitrotoluene			0		0.018	U	
3-Nitrotoluene	27.09	-0.19	205548**m**	10.21	0.018	U	

Prep Amount:	10.320 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99.1 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000216.D Vial: 14
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 21:03:30 Operator: BR
Sample : K1701351-006 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 09 17:05:09 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
18)	S	1-Chloro-3-Nitrobenzene	29.619	88248253	4083.832	ug/L	
		Target Compounds					
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	0.000	0	N.D.	ug/L	
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	0.000	0	N.D.	ug/L	
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L	
6)	T	1,3-DNB	13.739	68259	1.132	ug/L	m
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L	
8)	T	Tetryl	0.000	0	N.D.	ug/L	
9)	T	Nitrobenzene	16.066	530070	13.727	ug/L	m
10)	T	2,4,6-TNT	17.199	58500	1.404	ug/L	m
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L	
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L	
13)	T	2,6-DNT	0.000	0	N.D.	ug/L	
14)	T	2,4-DNT	22.186	158310	2.673	ug/L	m
15)	T	2-NT	0.000	0	N.D.	ug/L	
16)	T	4-NT	0.000	0	N.D.	ug/L	
17)	T	3-NT	27.093	205548	10.208	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] (g) (g) 03/14/17 03/29/17

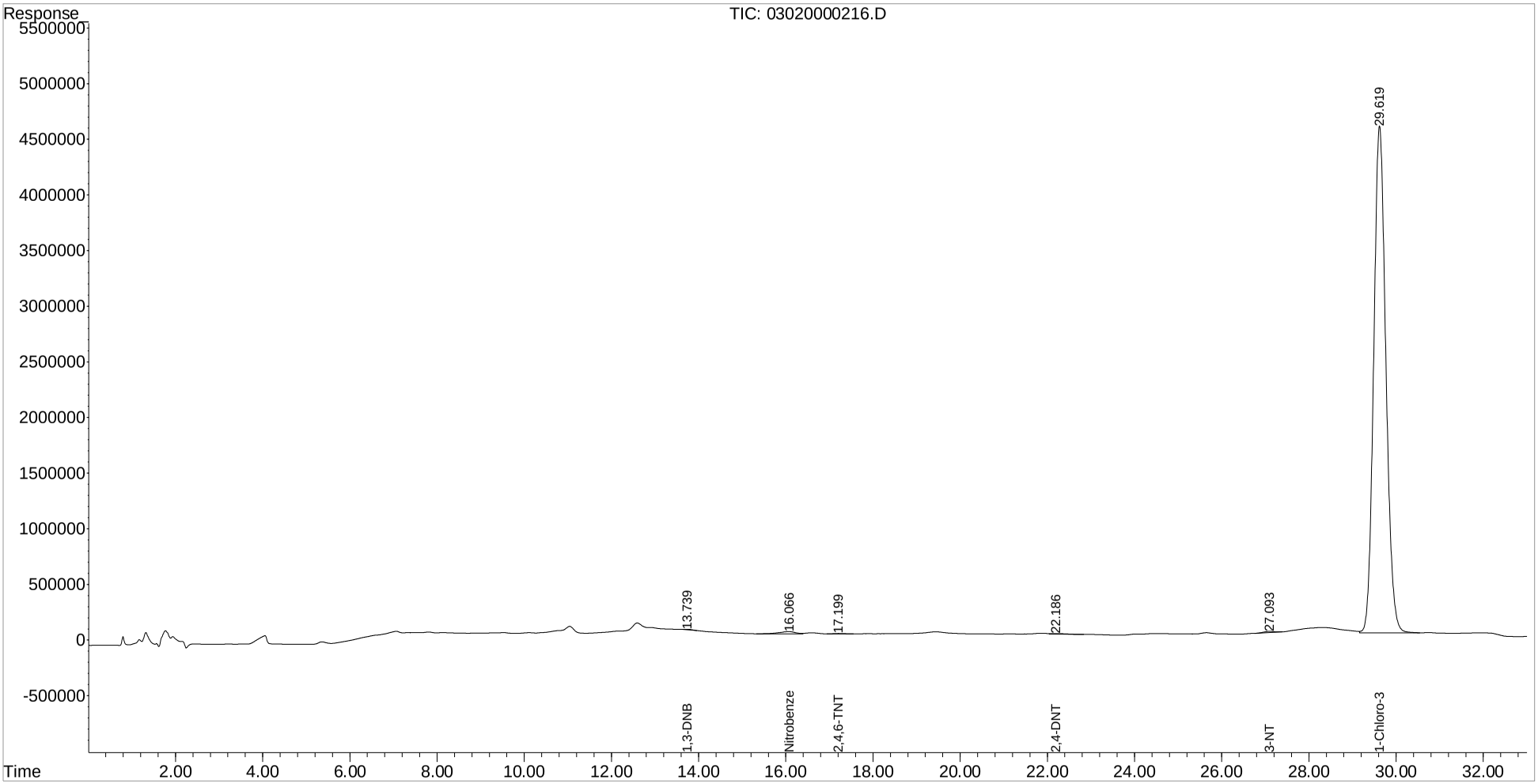
11/01/2018

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000216.D Vial: 14
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 21:03:30 Operator: BR
Sample : K1701351-006 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 09 17:05:09 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



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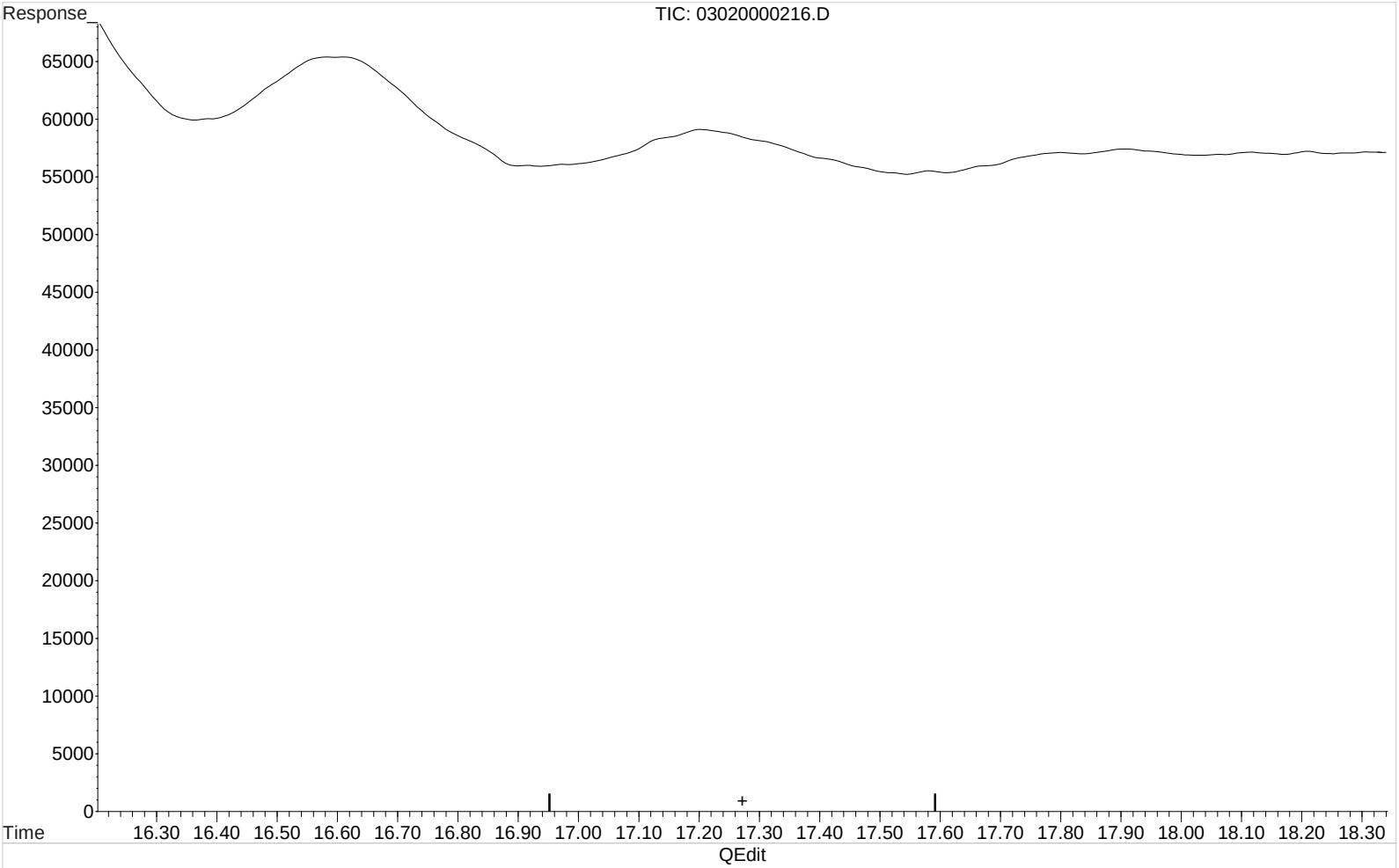
012025

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000216.D Vial: 14
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 21:03:30 Operator: BR
Sample : K1701351-006 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:51 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(10) 2,4,6-TNT (T)

17.272min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

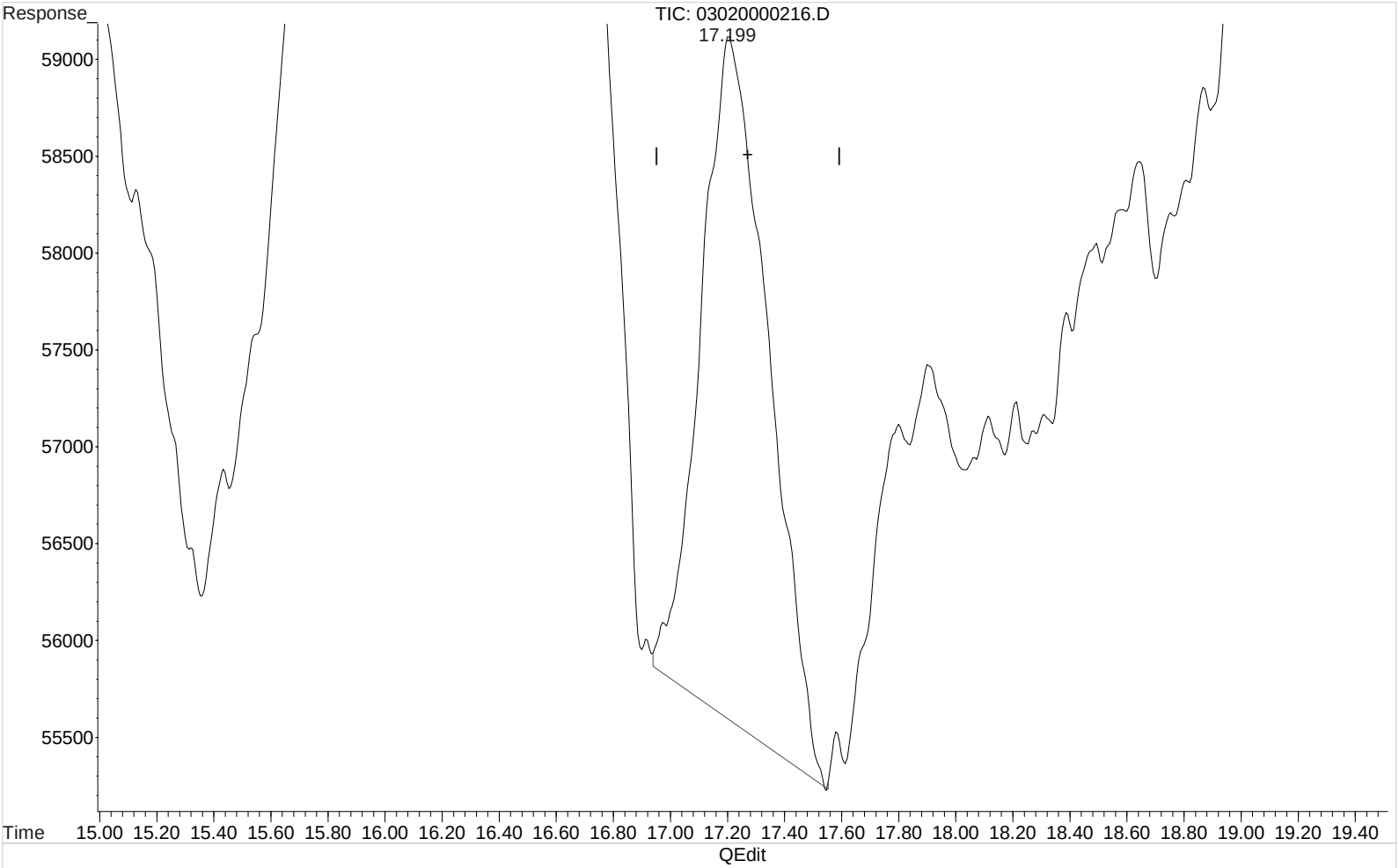
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000216.D Vial: 14
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 21:03:30 Operator: BR
Sample : K1701351-006 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:51 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(10) 2,4,6-TNT (T)

17.199min 1.404 ug/L m

response 58500

Manual Integration:

After

BLC

03/08/17

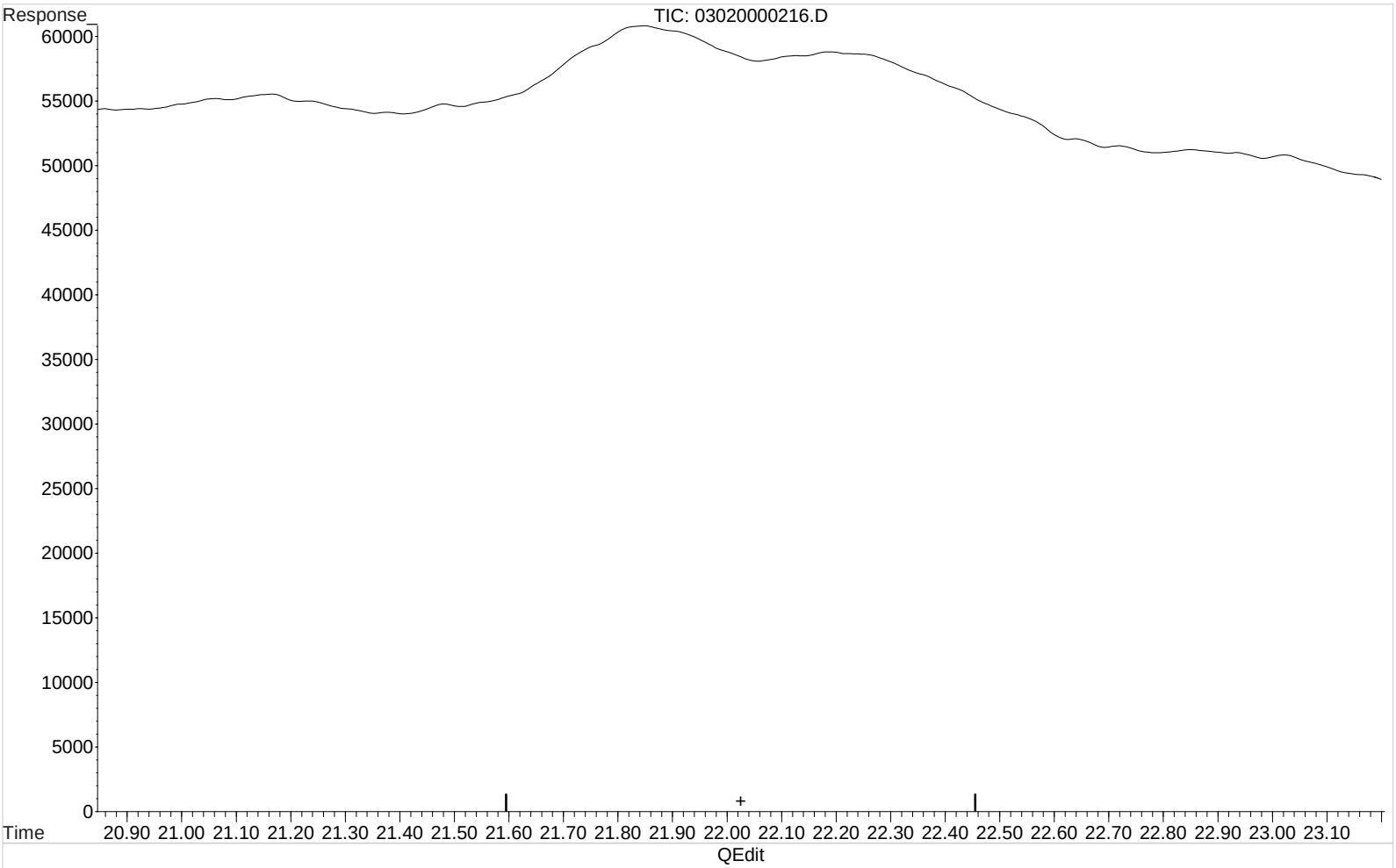
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000216.D Vial: 14
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 21:03:30 Operator: BR
Sample : K1701351-006 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:51 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.025min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

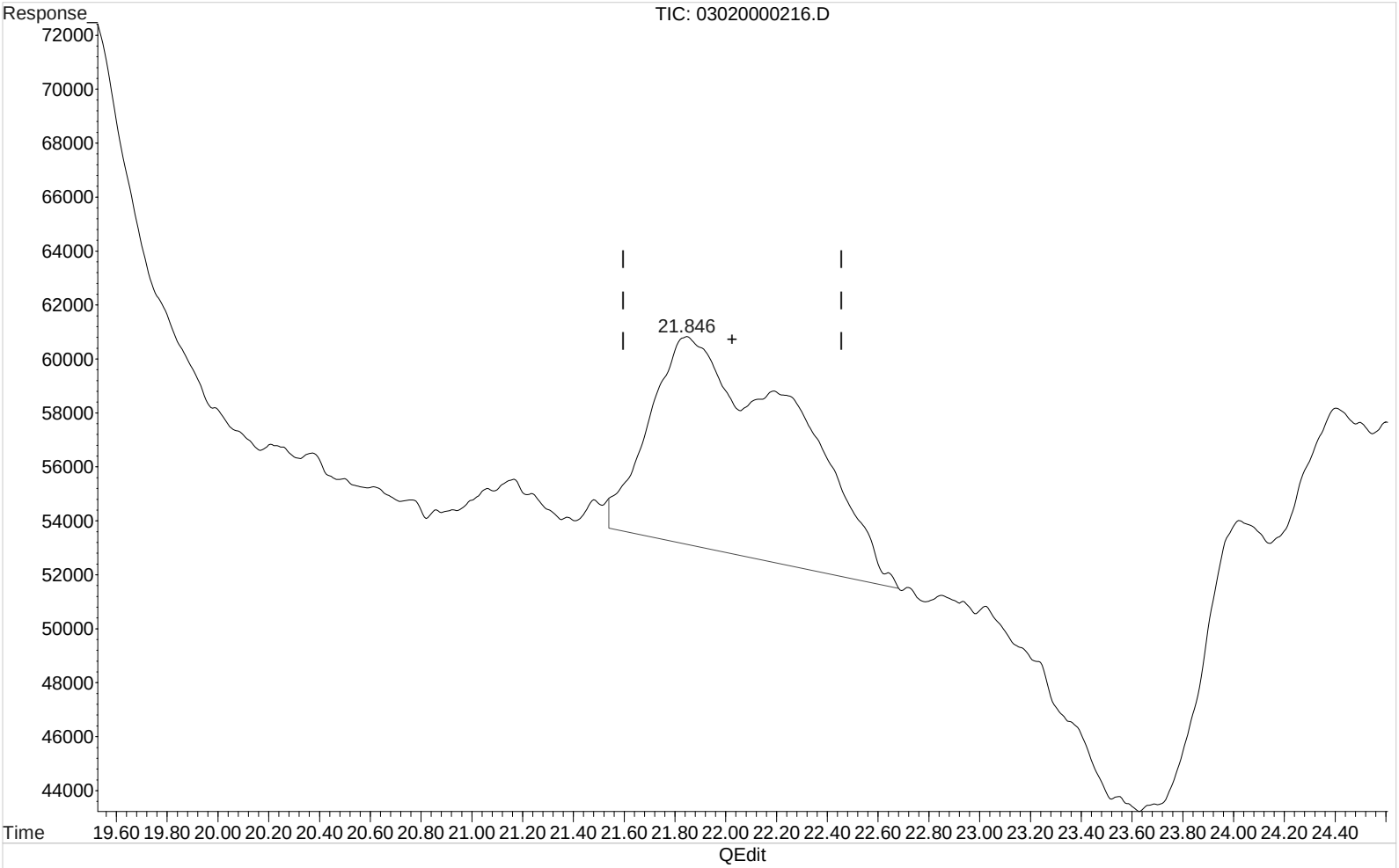
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000216.D Vial: 14
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 21:03:30 Operator: BR
Sample : K1701351-006 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:51 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

21.846min 5.284 ug/L m

response 313003

Manual Integration:

After

BLC

03/08/17

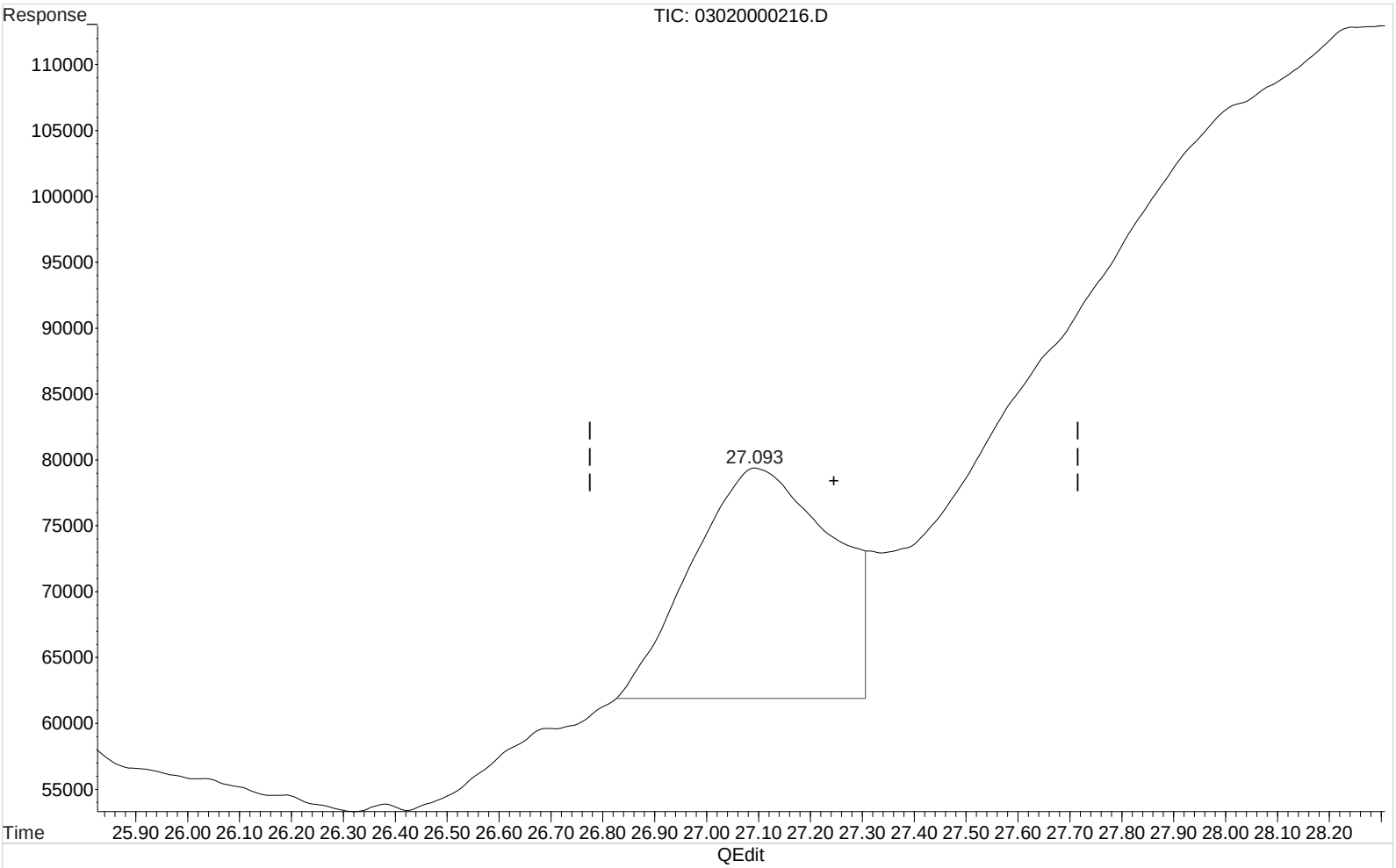
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000216.D Vial: 14
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 21:03:30 Operator: BR
Sample : K1701351-006 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:51 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.093min 16.339 ug/L

response 328994

Manual Integration:

Before

03/08/17

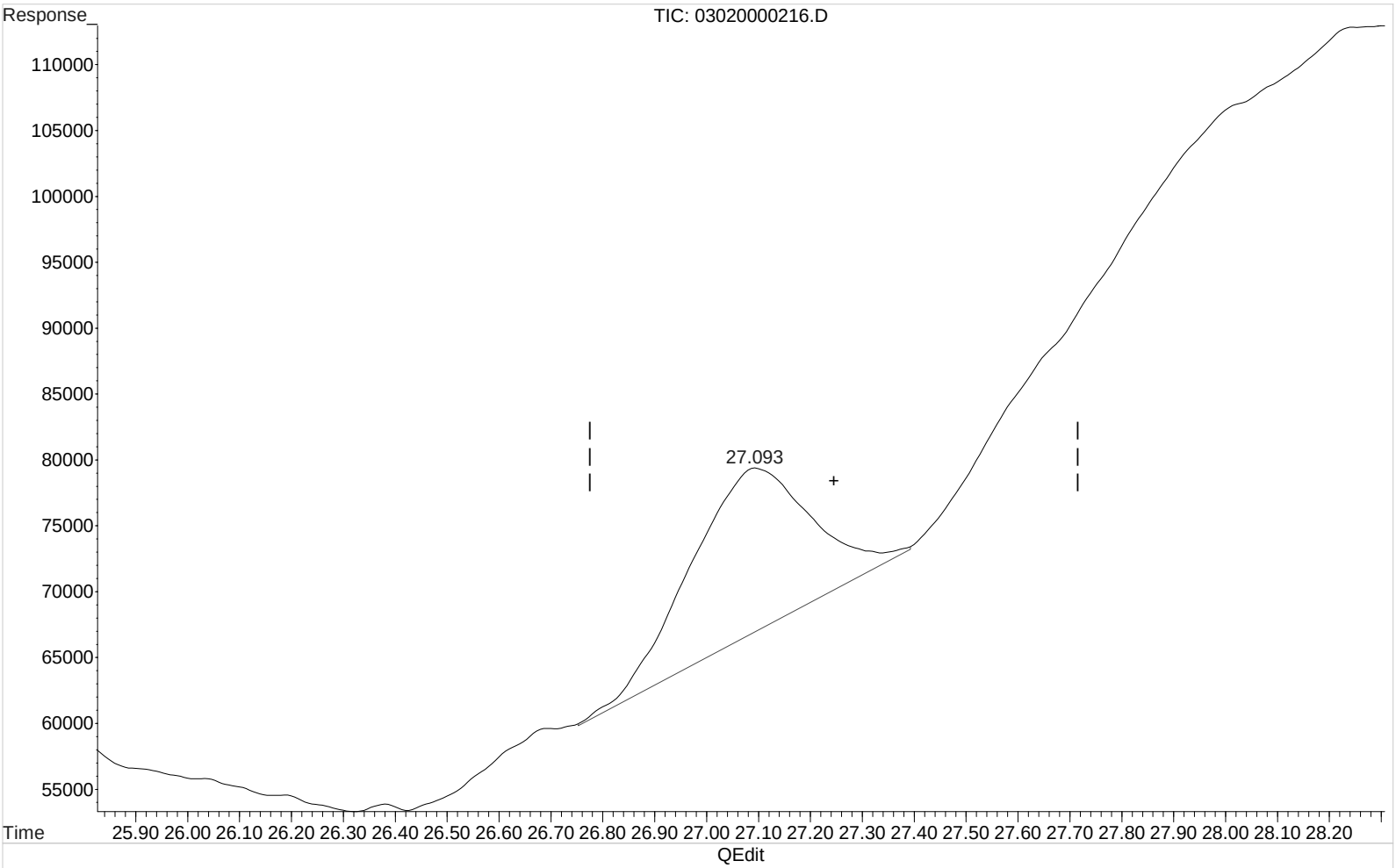
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000216.D Vial: 14
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 21:03:30 Operator: BR
Sample : K1701351-006 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:51 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.093min 10.208 ug/L m

response 205548

Manual Integration:

After

BLC

03/08/17

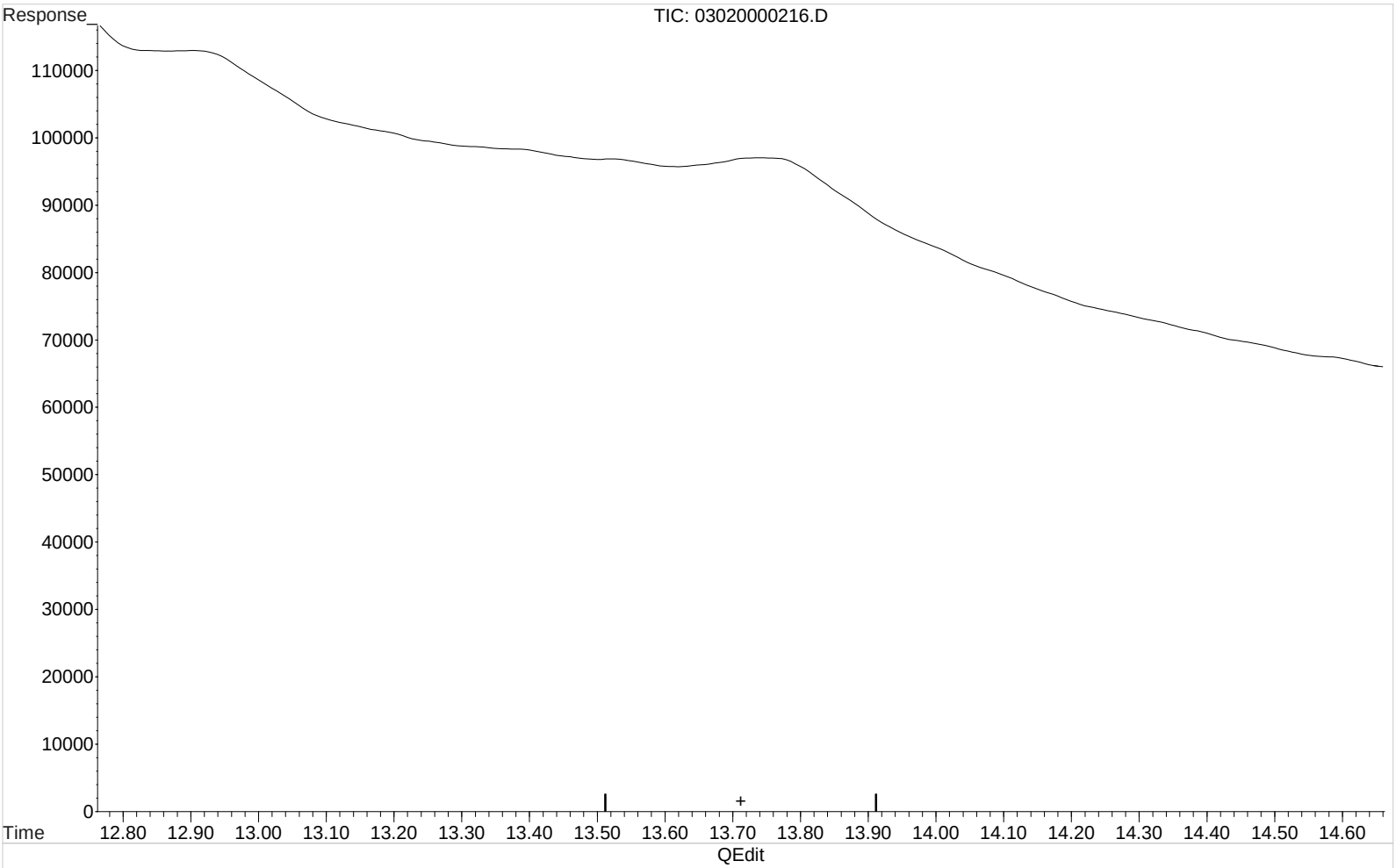
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000216.D Vial: 14
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 21:03:30 Operator: BR
Sample : K1701351-006 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:51 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(6) 1,3-DNB (T)

13.712min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

(+) = Expected Retention Time

(b) (6)

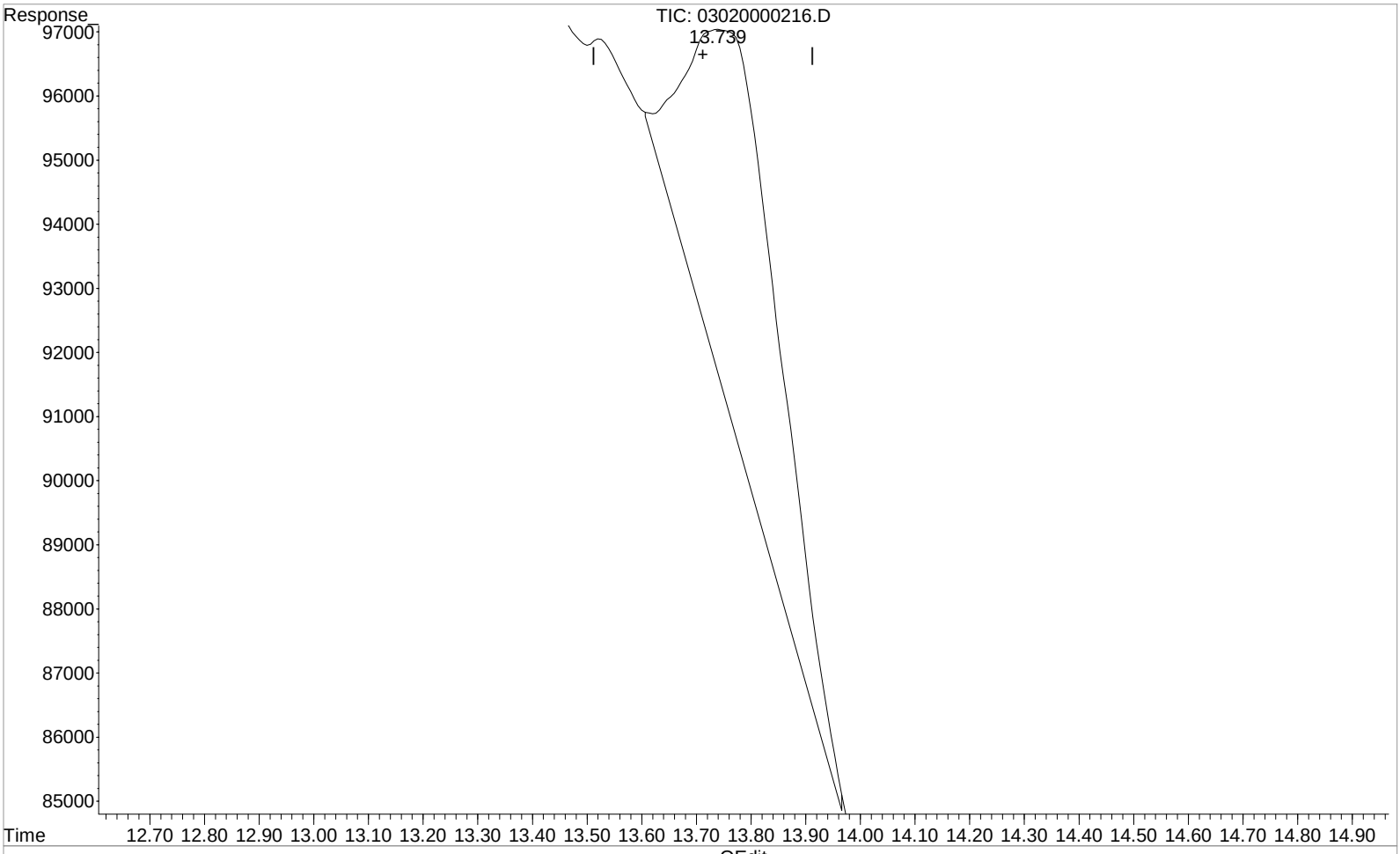
3/14/17

3/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000216.D Vial: 14
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 21:03:30 Operator: BR
Sample : K1701351-006 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 09 17:05:09 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(6) 1,3-DNB (T)

13.739min 1.132 ug/L m

response 68259

Manual Integration:

After

BLC

03/14/17

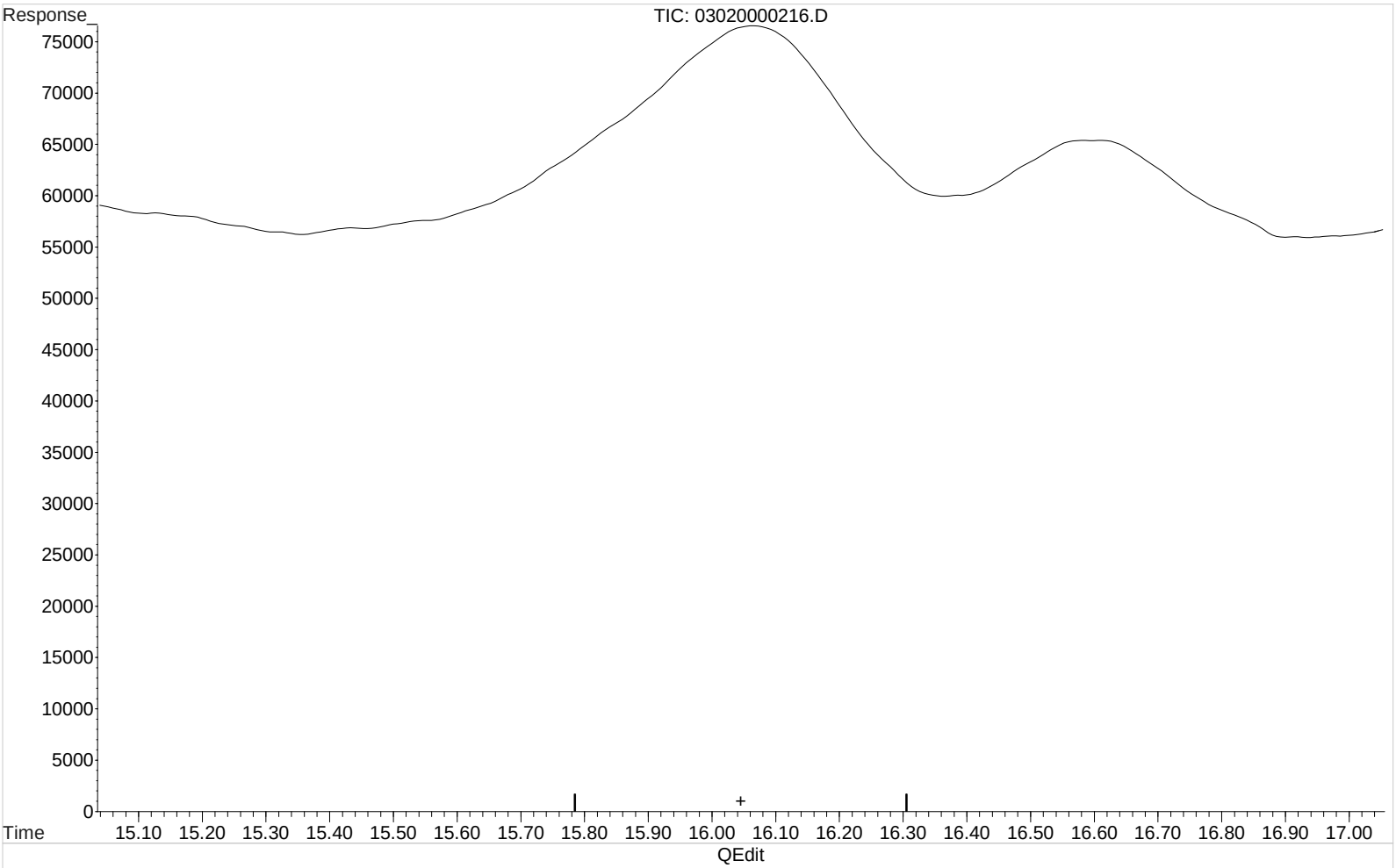
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000216.D Vial: 14
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 21:03:30 Operator: BR
Sample : K1701351-006 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:51 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(9) Nitrobenzene (T)

16.045min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

(+) = Expected Retention Time

(b) (6)

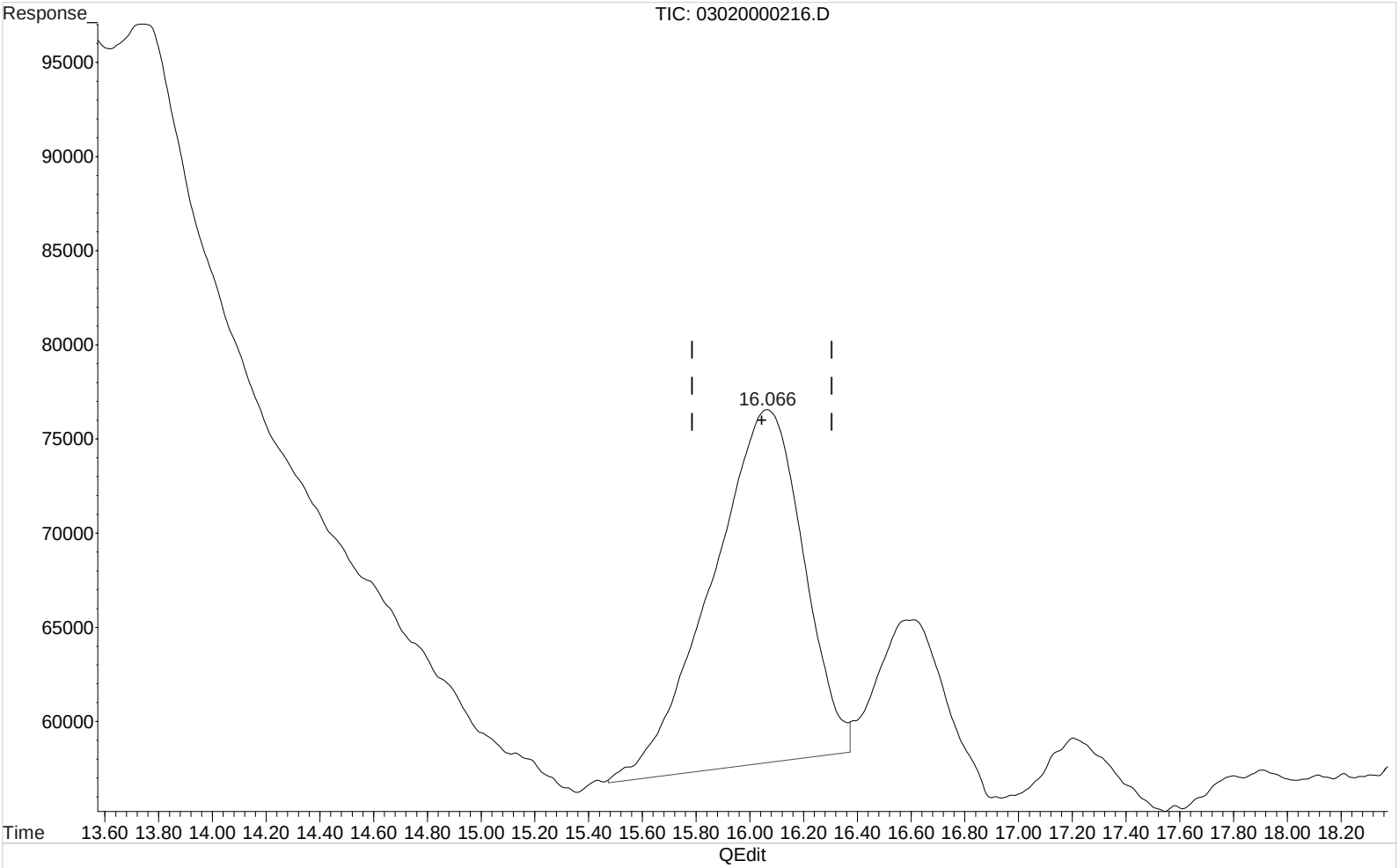
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000216.D Vial: 14
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 21:03:30 Operator: BR
Sample : K1701351-006 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:51 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.066min 11.575 ug/L m

response 446954

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000216.
Lab ID: K1701351-006
RunType: SMPL
Matrix: SOIL

Date Acquired: 03/02/2017 21:03
Date Quantitated: 03/08/2017 13:44
Batch ID: KWG1701860
Analysis Method: 8330B
ListJoinID: LJ15912

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000216.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 21:03	**Quant Date:**	03/08/2017 13:44	**Vial:**	14
Run Type:	SMPL	**ListJoinID:**	LJ14468	**Dilution:**	1.0
Lab ID:	K1701351-006			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/07/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587768	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ14468
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_254\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.62	0.02	233266592	4,102	82	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.58	0.10	368894**m**	17.70	0.058	U	
Pentaerythritol Tetranitrate			0**d**		0.11	U	

Prep Amount:	10.320 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99.1 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000216.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 21:03	**Quant Date:**	03/08/2017 13:44	**Vial:**	14
Run Type:	SMPL	**ListJoinID:**	LJ15912	**Dilution:**	1.0
Lab ID:	K1701351-006			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/07/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587768	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ15912
		Method ID:	MJ1432
MB Ref:	J:\LC10\DATA\030317_8330_254\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.62	0.02	233266592	4,102	82	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.58	0.10	368894**m**	17.70	0.058	U	
Pentaerythritol Tetranitrate			0**d**		0.11	U	

Prep Amount:	10.320 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99.1 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000216.D Vial: 14
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 21:03:30 Operator: BR
Sample : K1701351-006 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 13:44:10 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.619	233266592	4102.339	ug/L	
Target Compounds						
1) T	Nitroglycerin	16.579	368894	17.696	ug/L	m
2) T	PETN	0.000	0	N.D.	ug/L	d

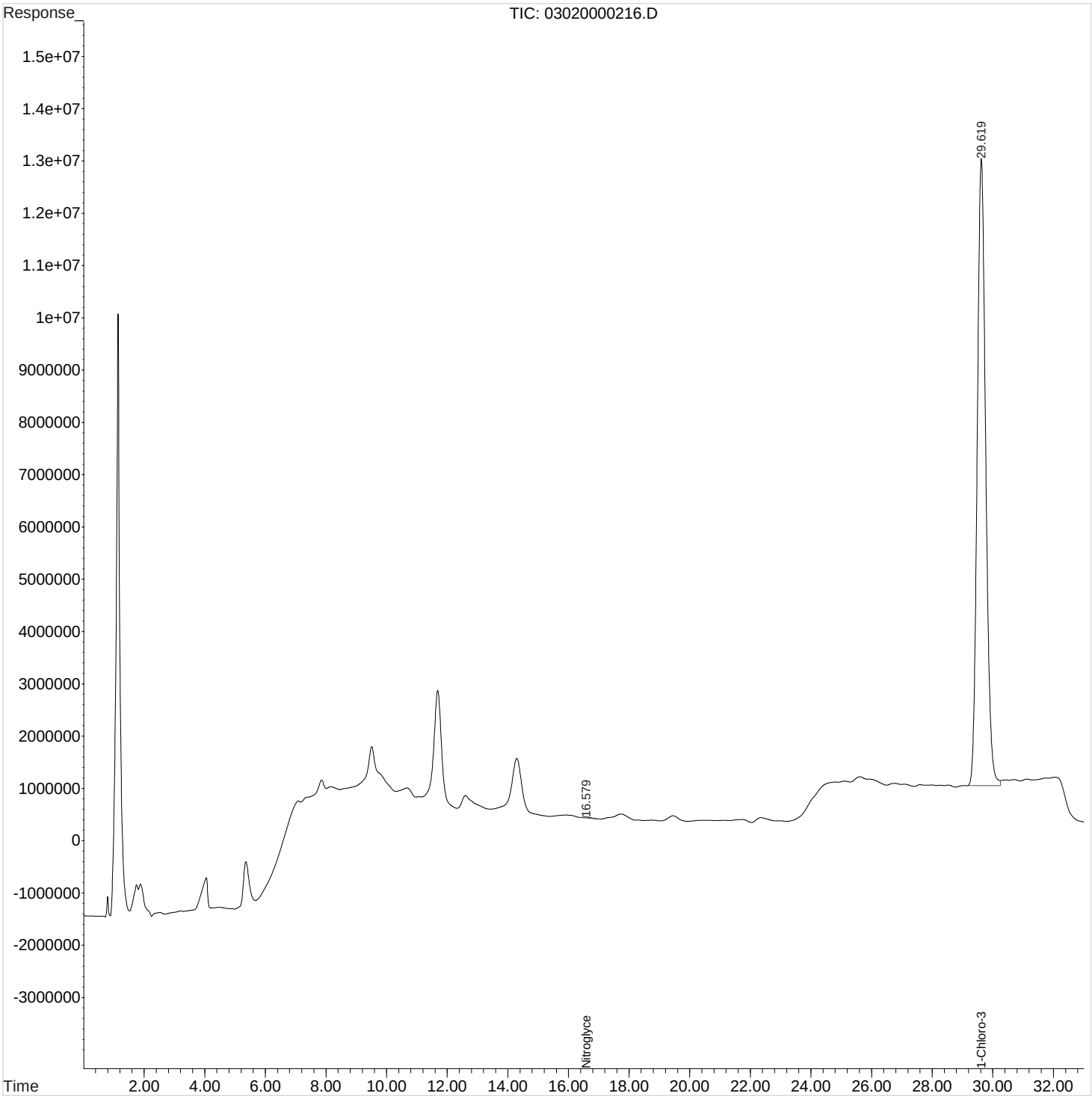
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000216.D Vial: 14
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 21:03:30 Operator: BR
Sample : K1701351-006 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 13:44:10 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(b) (6)

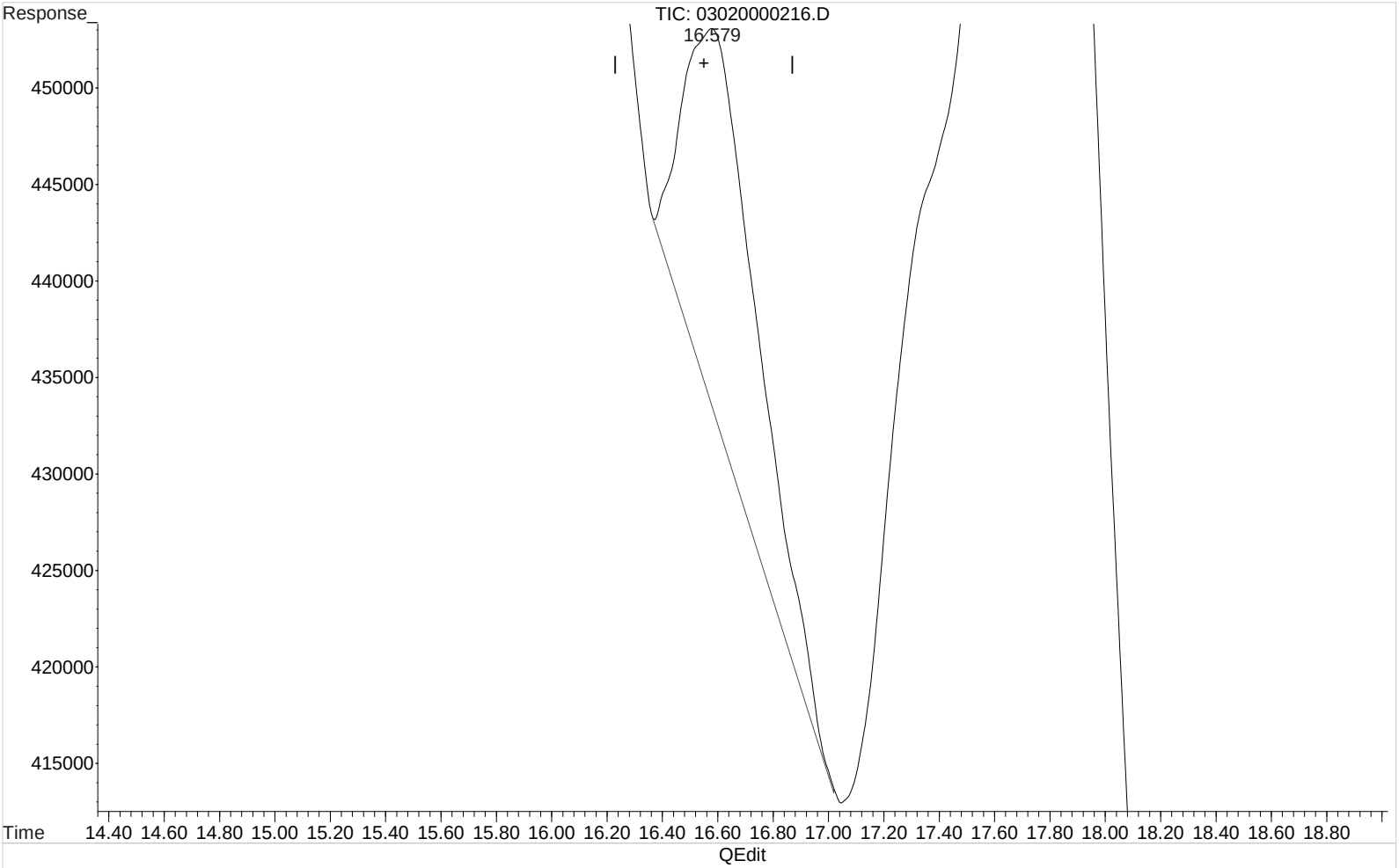
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_210\03020000216.D Vial: 14
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 21:03:30 Operator: BR
Sample : K1701351-006 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:42:32 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.579min 17.696 ug/L m

response 368894

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000217.
Lab ID: K1701351-007
RunType: SMPL
Matrix: SOIL

Date Acquired: 03/02/2017 21:39
Date Quantitated: 03/09/2017 16:08
Batch ID: KWG1701858
Analysis Method: 8330B
ListJoinID: LJ15912

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000217.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 21:39	**Quant Date:**	03/09/2017 16:08	**Vial:**	15
Run Type:	SMPL	**ListJoinID:**	LJ14468	**Dilution:**	1.0
Lab ID:	K1701351-007			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/07/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701858	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587769	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ14468
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_254\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.62	0.02	88433891	4,092	82	34-135	OK	

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0		0.0064	U	
RDX			0		0.049	U	
1,3,5-Trinitrobenzene	10.42	-0.02	207554**m**	4.65	0.027	U	
1,3-Dinitrobenzene	13.77	0.02	740250**m**	12.28	0.012	U	
TETRYL			0		0.041	U	
Nitrobenzene	16.09	0.01	30539**m**	0.7910	0.0044	U	
2,4,6-Trinitrotoluene	17.30	0.01	85158**m**	2.04	0.018	U	
4-Amino-2,6-dinitrotoluene			0		0.0051	U	
2-Amino-4,6-dinitrotoluene			0		0.0075	U	
2,6-Dinitrotoluene			0**d**		0.0051	U	
2,4-Dinitrotoluene	22.08	0.02	788328**m**	13.31	0.041	U	
2-Nitrotoluene	25.10	-0.13	36634**m**	2.04	0.0071	U	
4-Nitrotoluene			0		0.018	U	
3-Nitrotoluene	27.10	-0.18	201475**m**	10.01	0.018	U	

Prep Amount:	10.212 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	98.7 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000217.D Vial: 15
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 21:39:44 Operator: BR
Sample : K1701351-007 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 09 16:08:54 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
18) S	1-Chloro-3-Nitrobenzene	29.617	88433891	4092.423	ug/L	
	Target Compounds					
1) T	2,6-Diamino-4-nitroto...	4.237	35631	NoCal	ug/L	
2) T	HMX	0.000	0	N.D.	ug/L	
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4) T	RDX	0.000	0	N.D.	ug/L	
5) T	1,3,5-TNB	10.424	207554	4.647	ug/L	m
6) T	1,3-DNB	13.770	740250	12.280	ug/L	m
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L	
8) T	Tetryl	0.000	0	N.D.	ug/L	
9) T	Nitrobenzene	16.090	30539	0.791	ug/L	m
10) T	2,4,6-TNT	17.304	85158	2.044	ug/L	m
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L	
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L	
13) T	2,6-DNT	0.000	0	N.D.	ug/L	d
14) T	2,4-DNT	22.084	788328	13.308	ug/L	m
15) T	2-NT	25.097	36634	2.039	ug/L	m
16) T	4-NT	0.000	0	N.D.	ug/L	
17) T	3-NT	27.097	201475	10.006	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] 3/14/17
(g) (g) 3/29/17

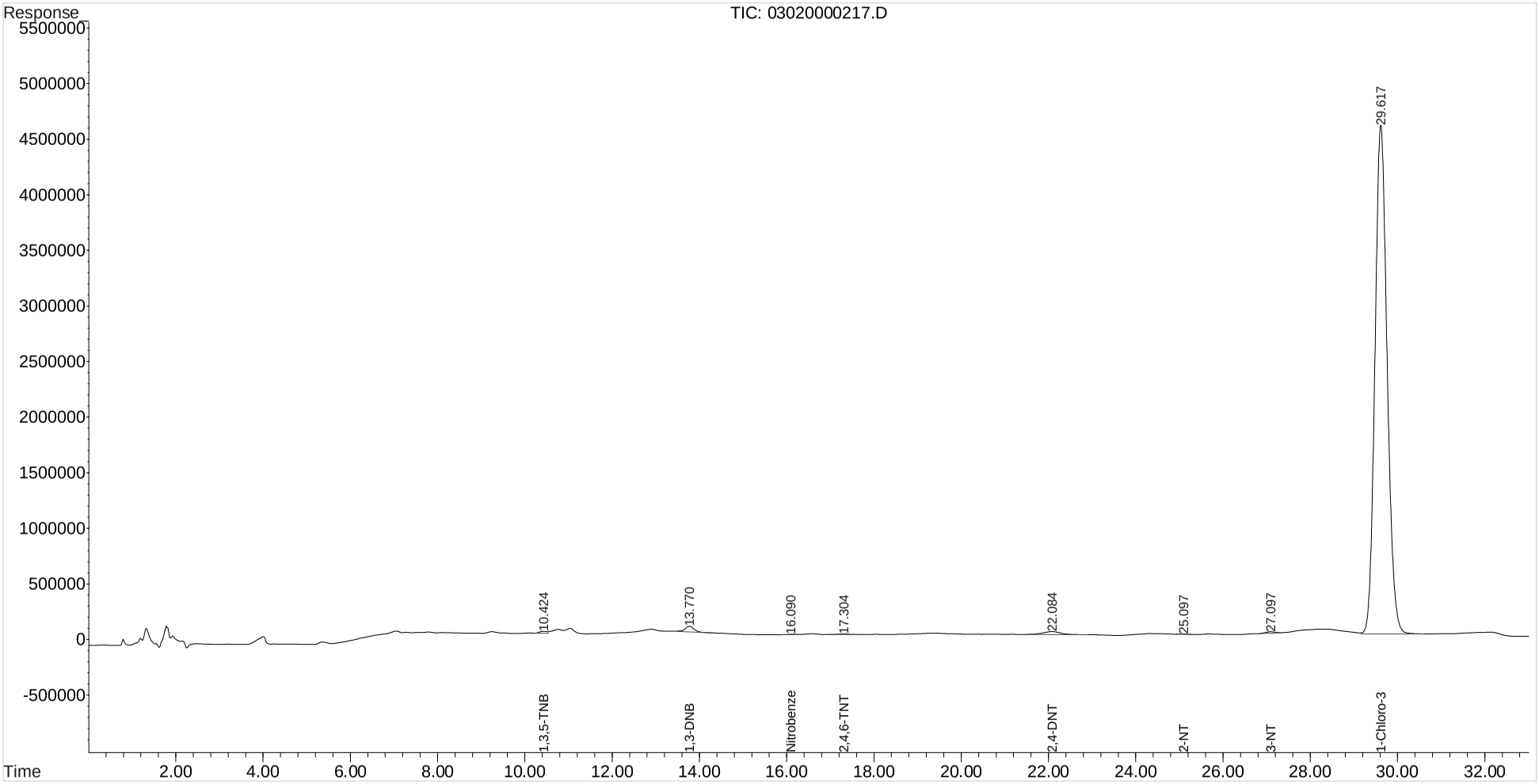
Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000217.D Vial: 15
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 21:39:44 Operator: BR
Sample : K1701351-007 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 09 16:08:54 2017
Quant Results File: 120716_8330B@254.RES

11/01/2018

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



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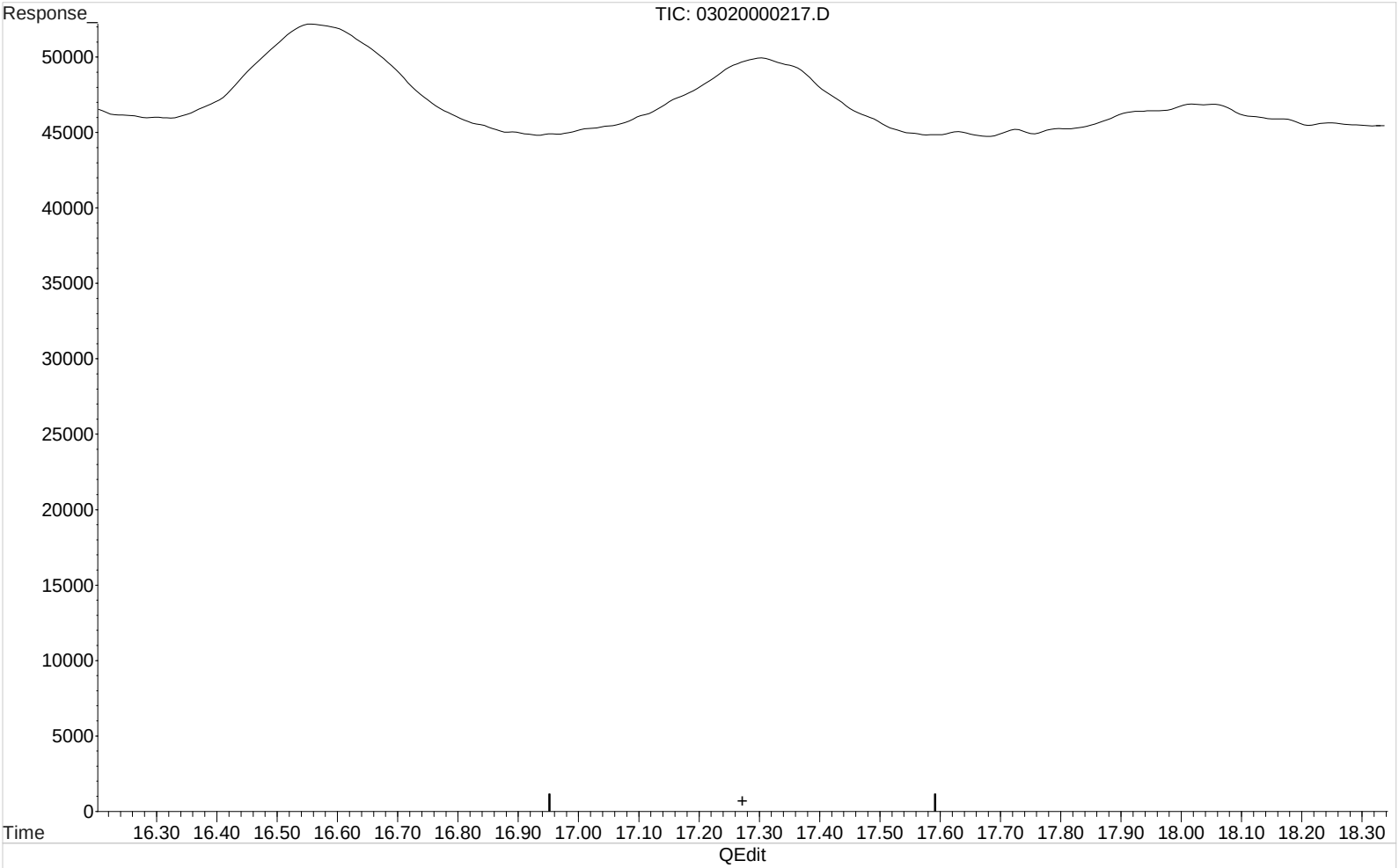
012045

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000217.D Vial: 15
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 21:39:44 Operator: BR
Sample : K1701351-007 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 14:29:52 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(10) 2,4,6-TNT (T)

17.272min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

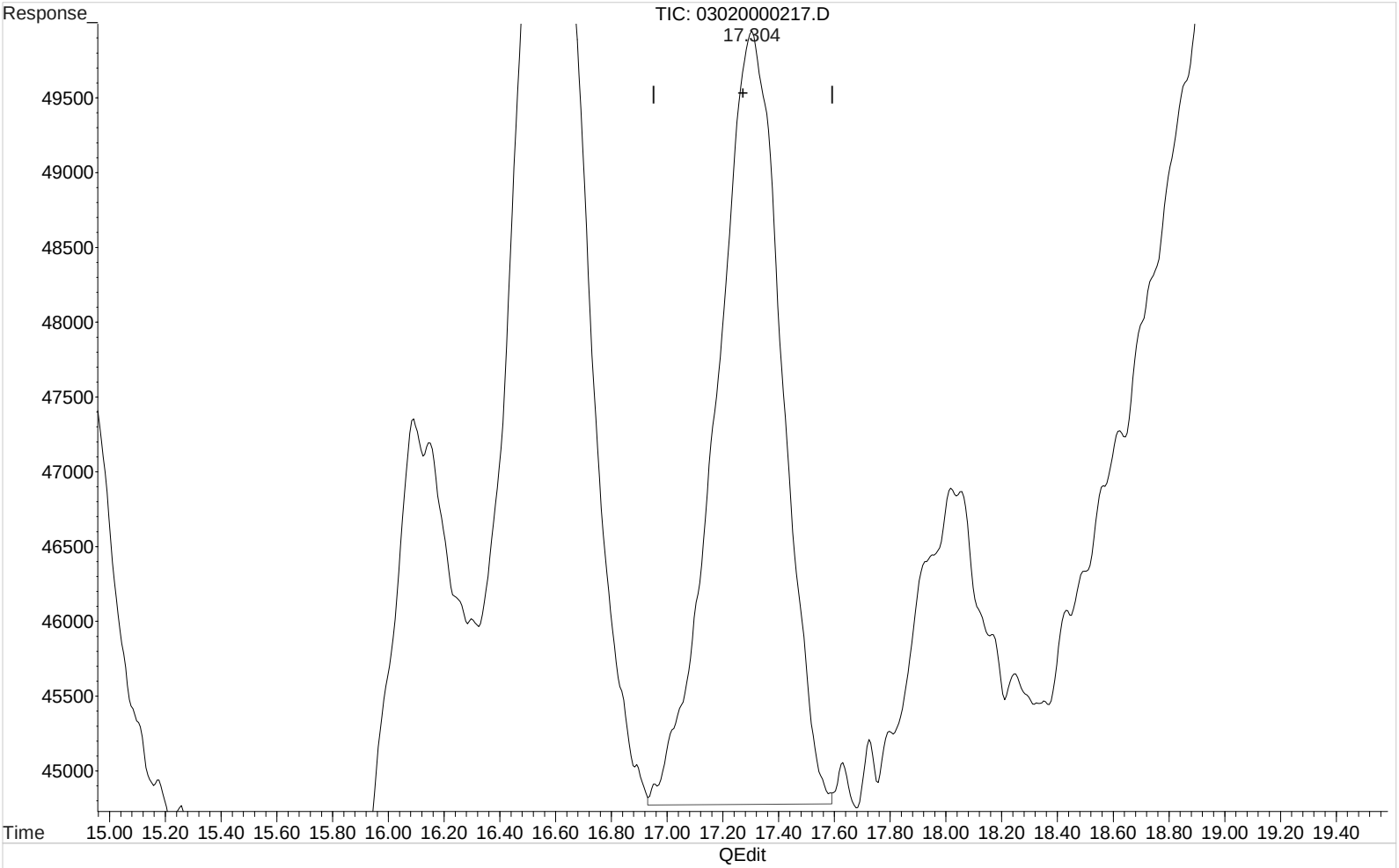
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000217.D Vial: 15
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 21:39:44 Operator: BR
Sample : K1701351-007 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 14:29:52 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(10) 2,4,6-TNT (T)

17.304min 2.044 ug/L m

response 85158

Manual Integration:

After

BLC

03/08/17

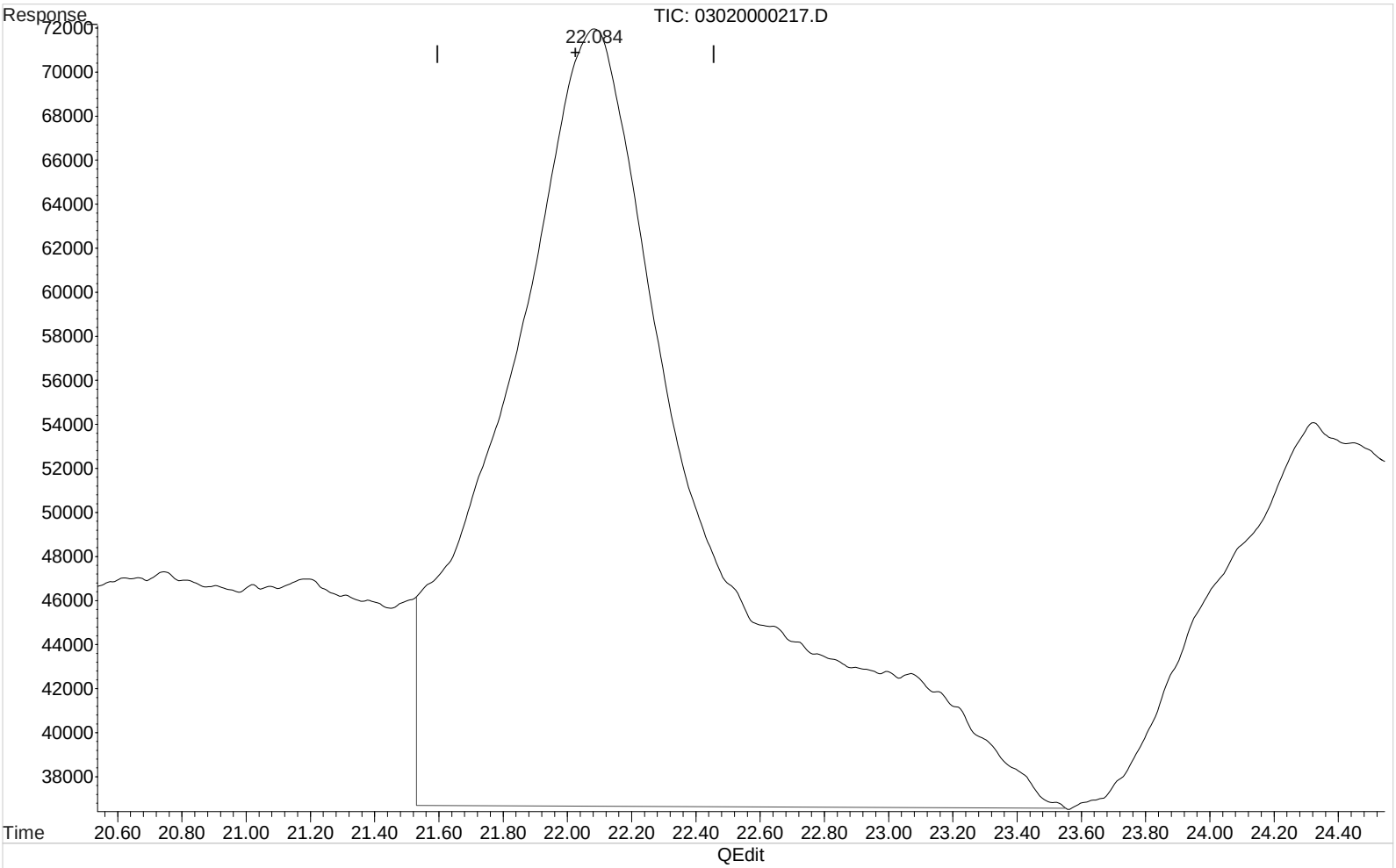
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000217.D Vial: 15
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 21:39:44 Operator: BR
Sample : K1701351-007 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 14:29:52 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.084min 26.137 ug/L m

response 1548224

Manual Integration:

Before

03/08/17

(+) = Expected Retention Time

(b) (6)

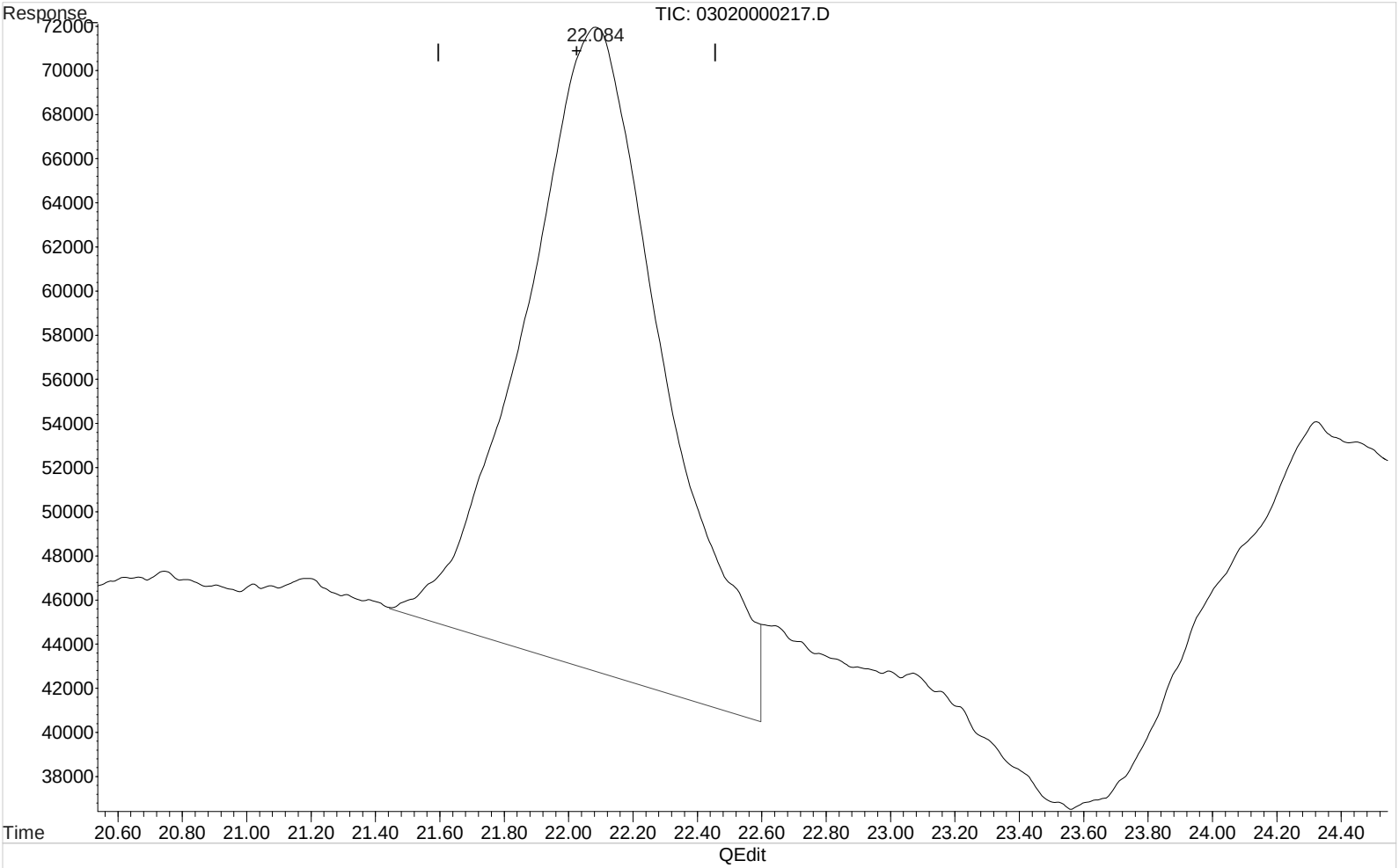
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000217.D Vial: 15
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 21:39:44 Operator: BR
Sample : K1701351-007 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 14:29:52 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.084min 14.798 ug/L m

response 876595

Manual Integration:

After

BLC

03/08/17

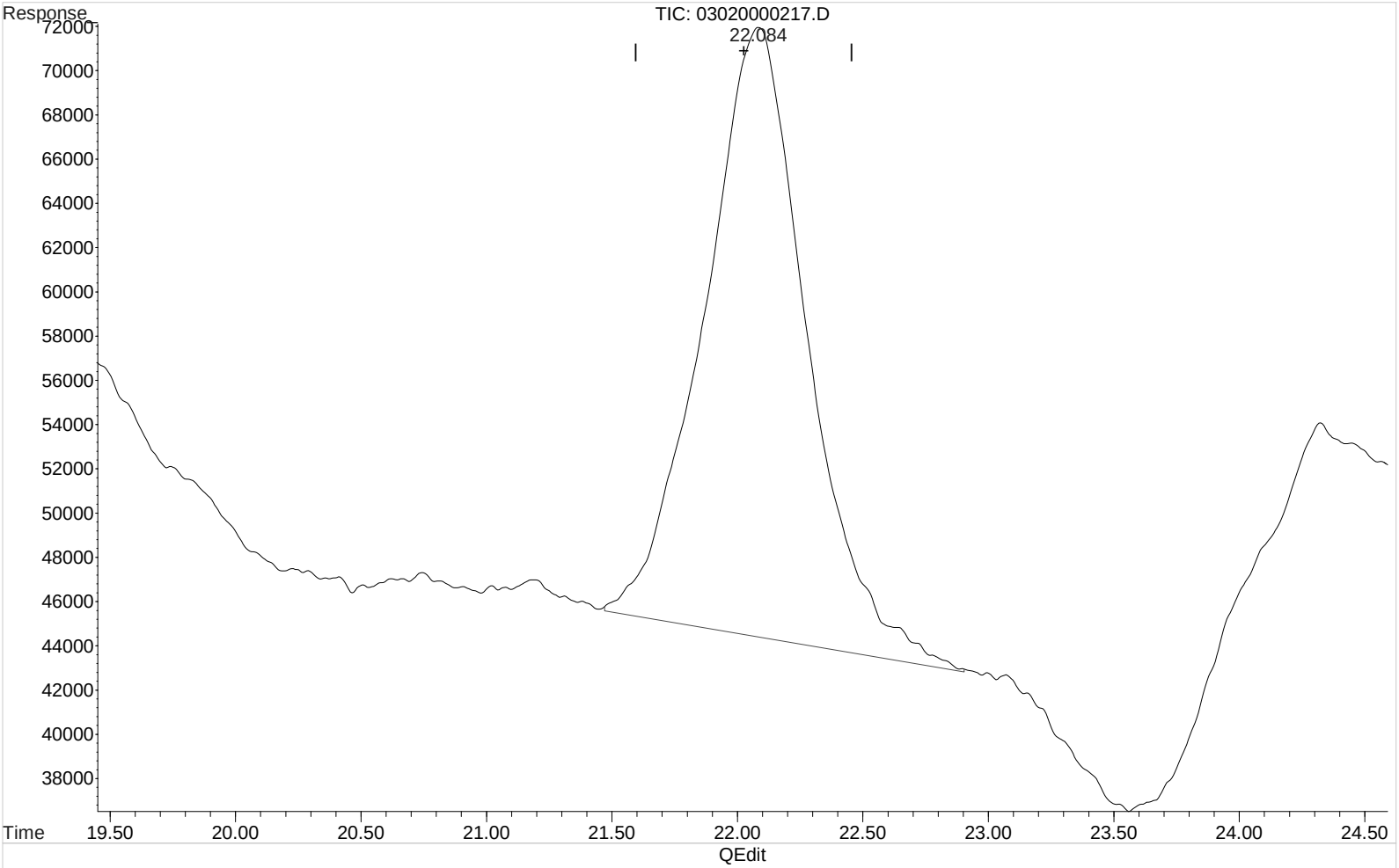
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000217.D Vial: 15
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 21:39:44 Operator: BR
Sample : K1701351-007 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 14:39:18 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.084min 13.308 ug/L m

response 788328

Manual Integration:

After

Baseline/Shoulder

03/09/17

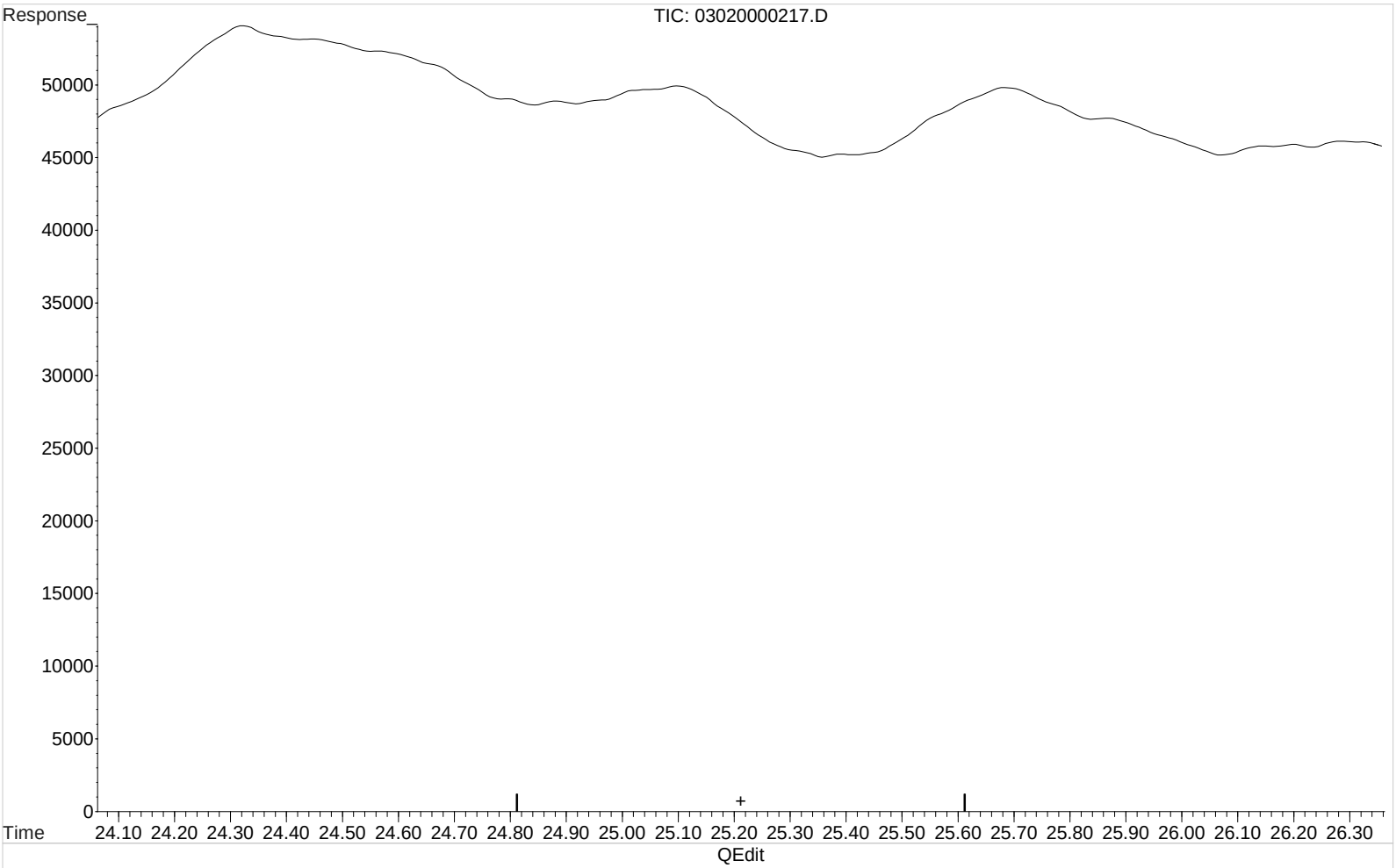
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000217.D Vial: 15
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 21:39:44 Operator: BR
Sample : K1701351-007 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 14:29:52 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.212min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

(+) = Expected Retention Time

(b) (6)

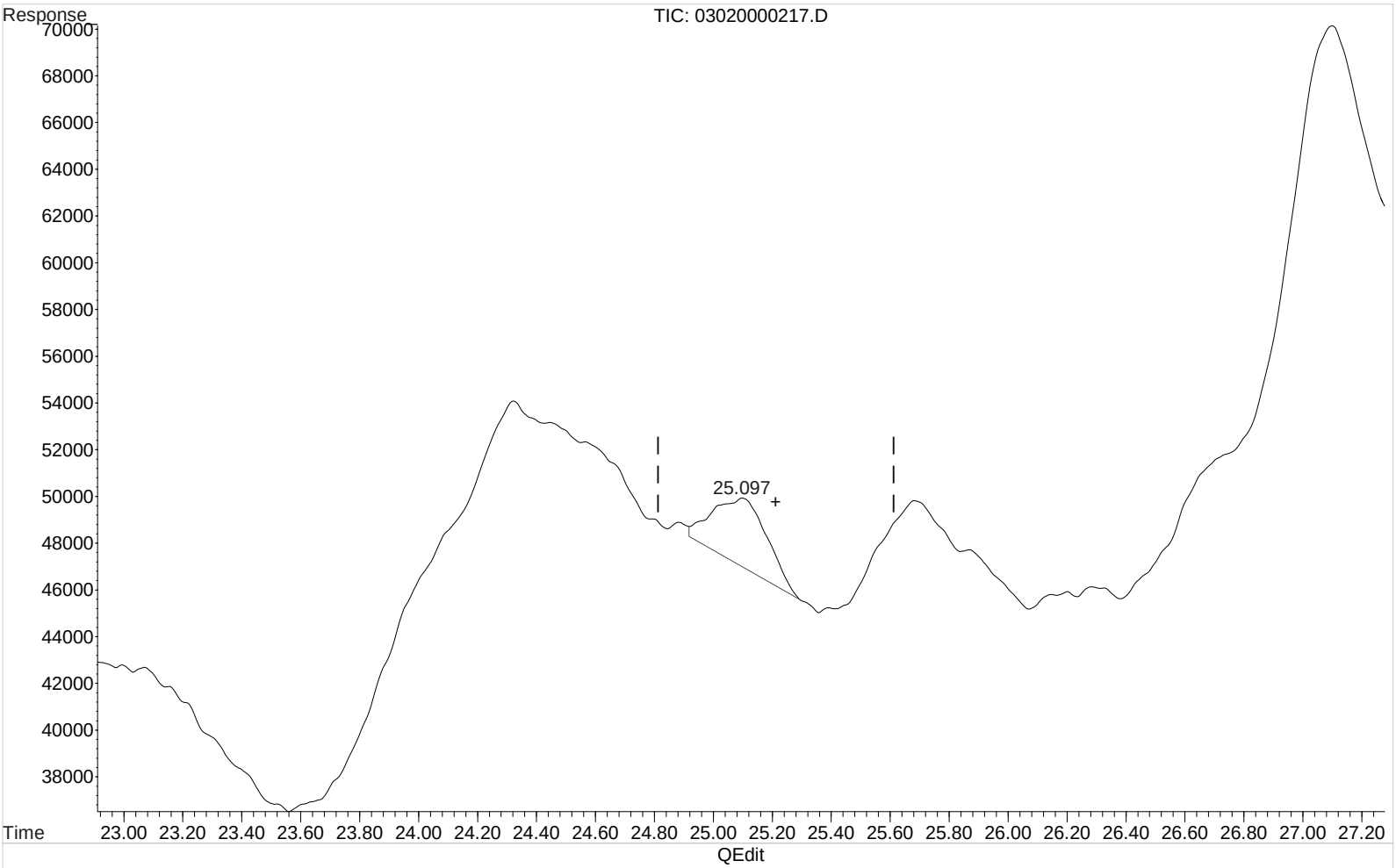
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000217.D Vial: 15
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 21:39:44 Operator: BR
Sample : K1701351-007 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 14:29:52 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(15) 2-NT (T)

25.097min 2.039 ug/L m

response 36634

Manual Integration:

After

BLC

03/08/17

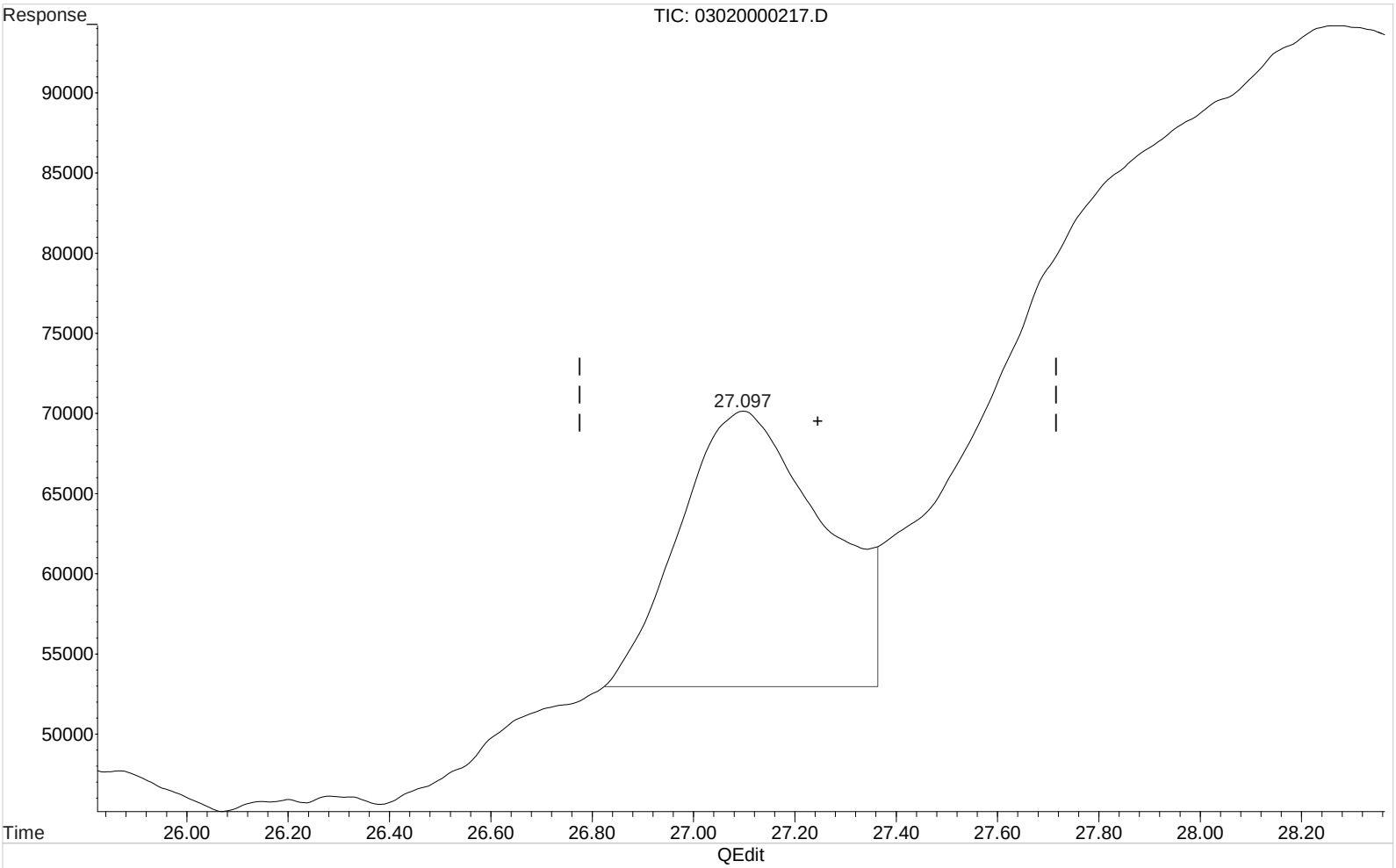
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000217.D Vial: 15
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 21:39:44 Operator: BR
Sample : K1701351-007 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 14:29:52 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.097min 16.870 ug/L

response 339695

Manual Integration:

Before

03/08/17

(+) = Expected Retention Time

(b) (6)

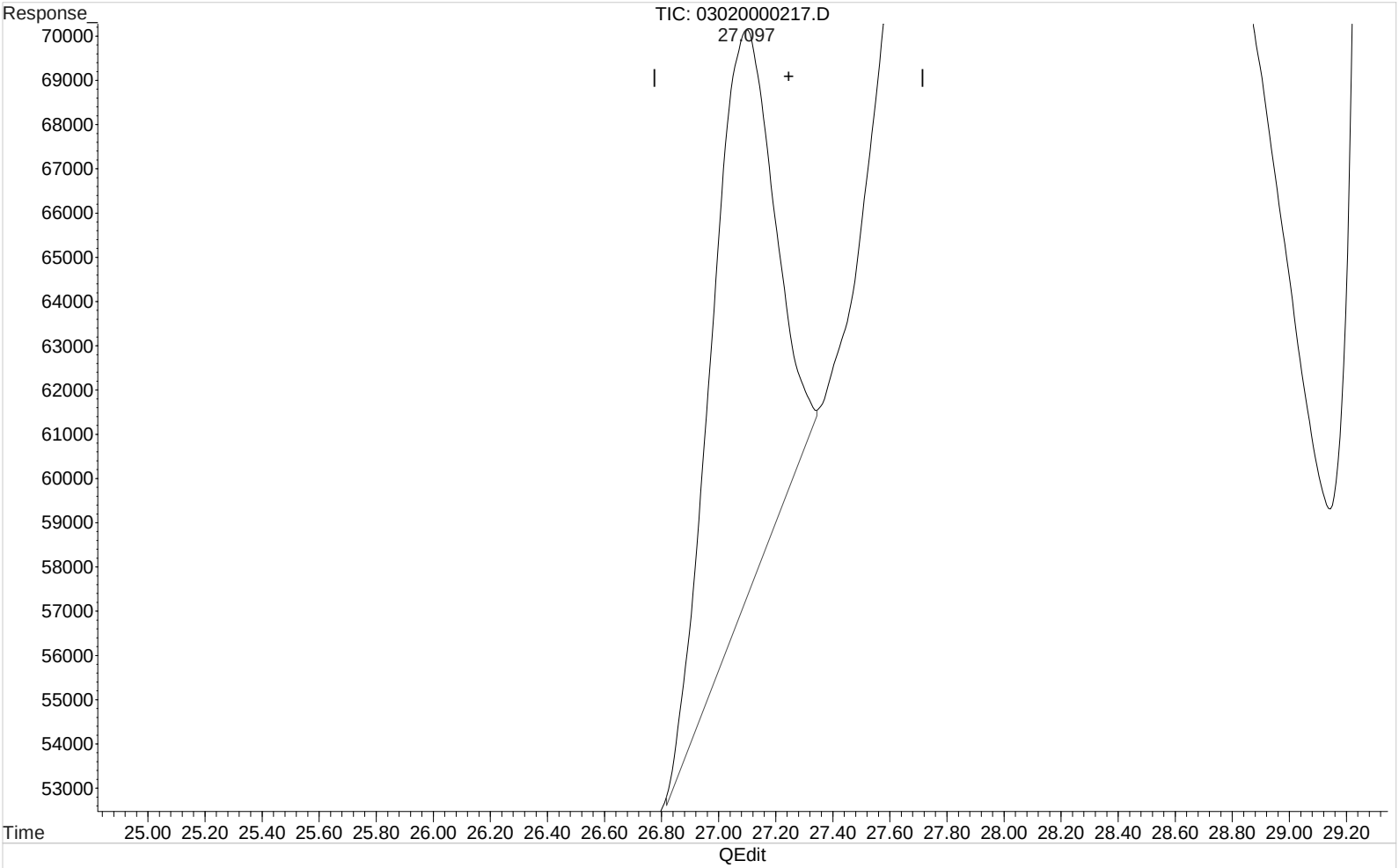
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000217.D Vial: 15
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 21:39:44 Operator: BR
Sample : K1701351-007 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 14:29:52 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(17) 3-NT (T)

27.097min 10.006 ug/L m

response 201475

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

(b) (6)

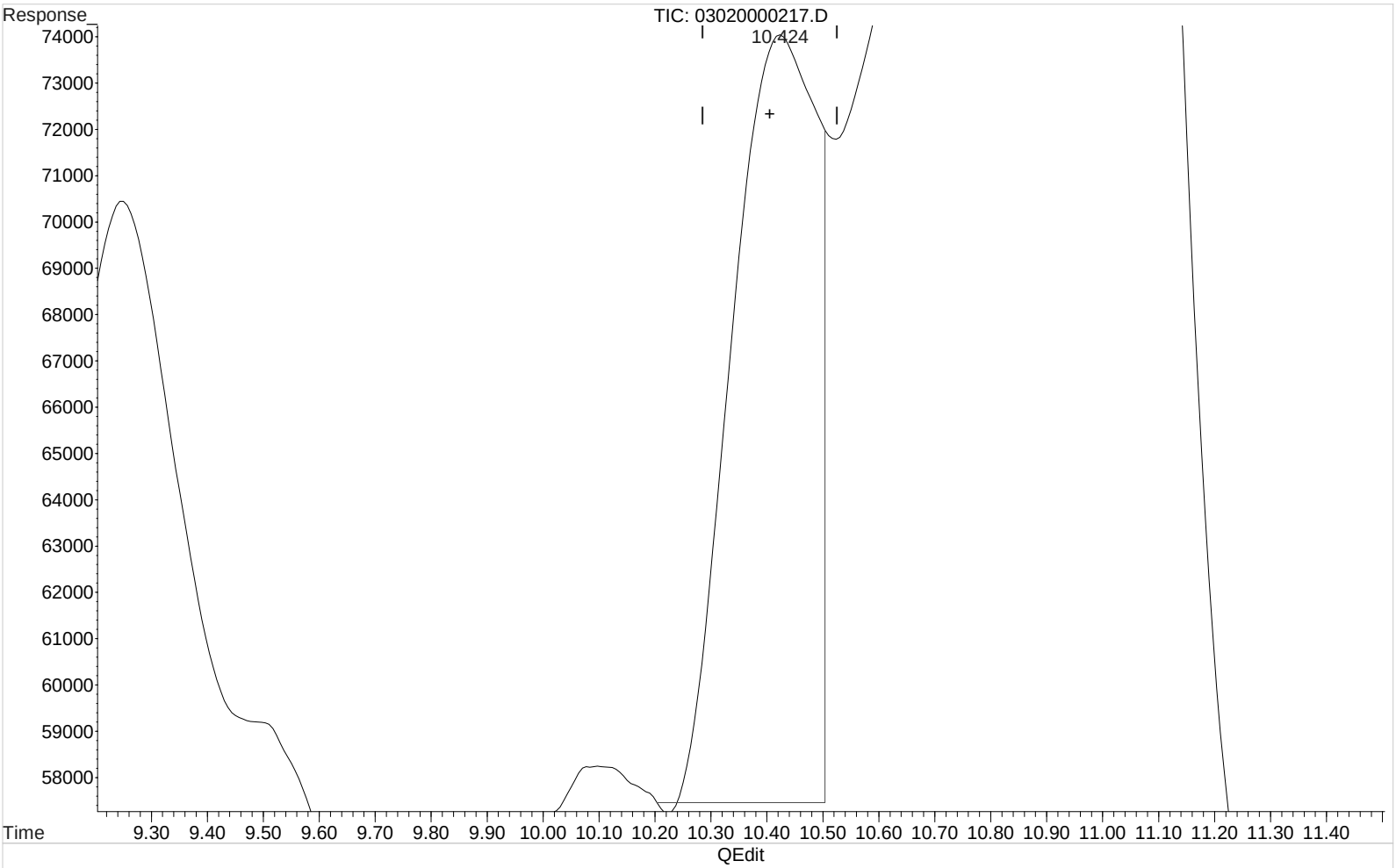
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000217.D Vial: 15
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 21:39:44 Operator: BR
Sample : K1701351-007 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:40:07 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(5) 1,3,5-TNB (T)

10.424min 3.940 ug/L

response 175985

Manual Integration:

Before

03/08/17

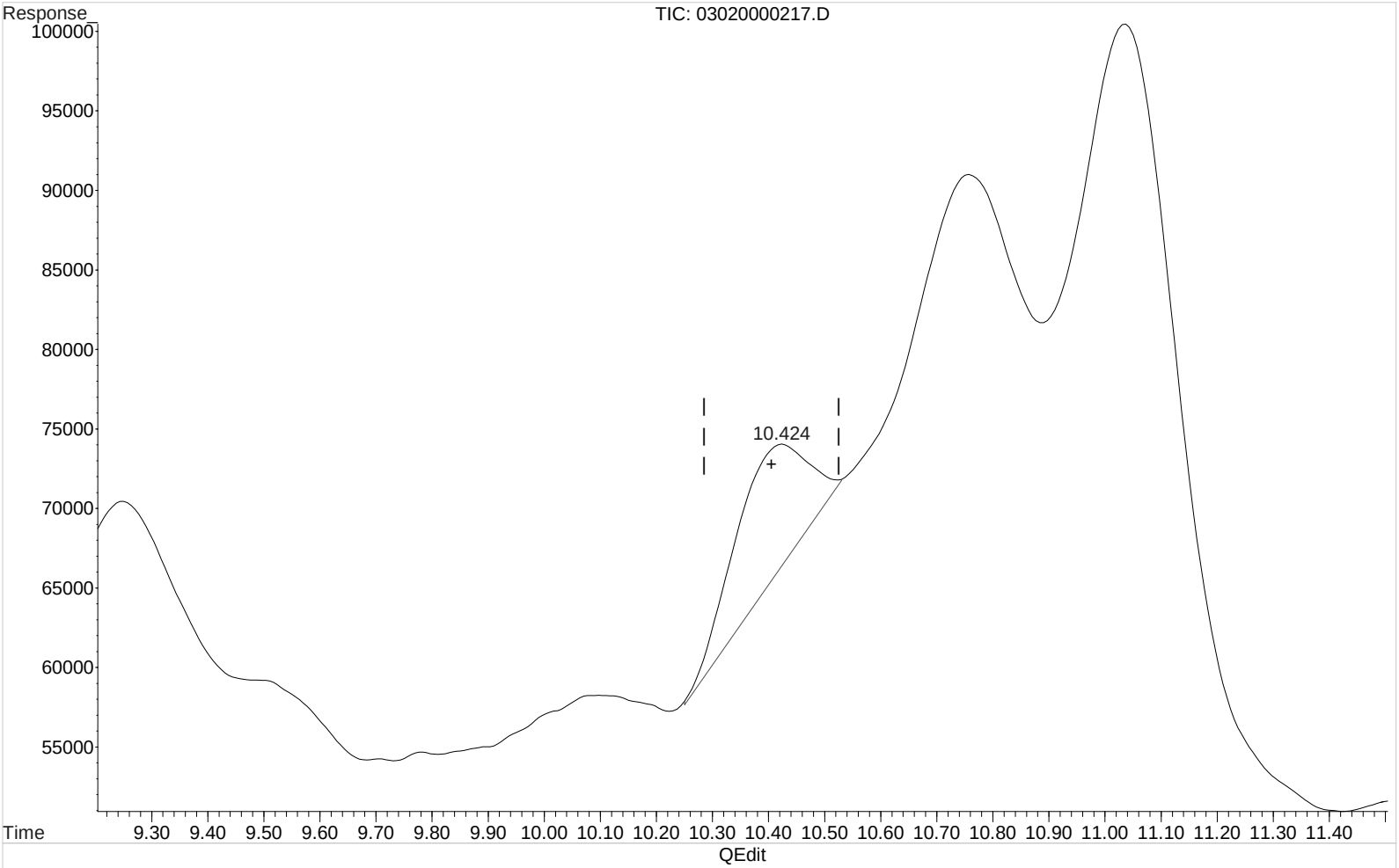
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000217.D Vial: 15
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 21:39:44 Operator: BR
Sample : K1701351-007 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:40:07 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(5) 1,3,5-TNB (T)

10.424min 1.730 ug/L m

response 77281

Manual Integration:

After

BLC

03/08/17

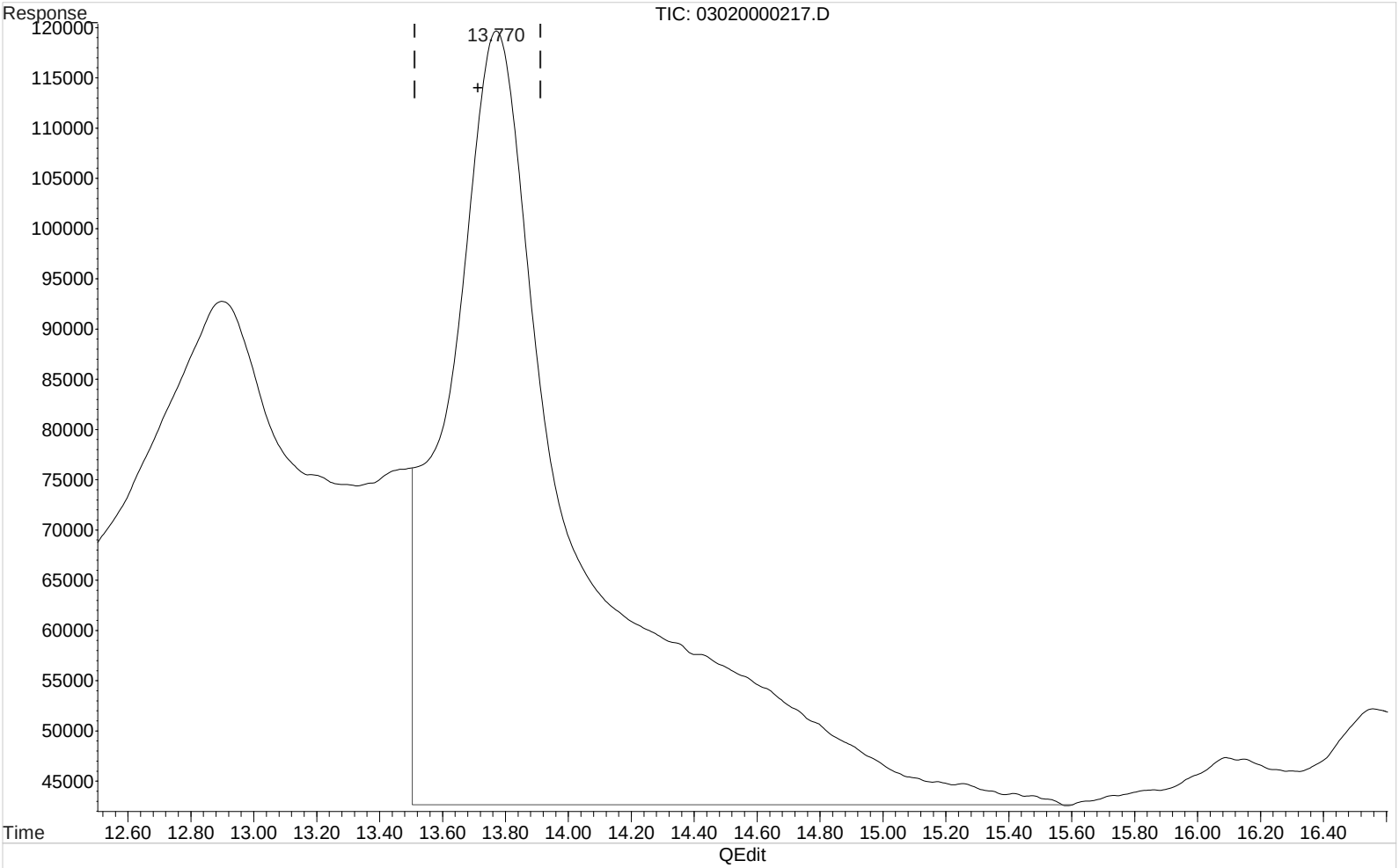
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000217.D Vial: 15
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 21:39:44 Operator: BR
Sample : K1701351-007 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 14:39:18 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(6) 1,3-DNB (T)

13.770min 39.130 ug/L

response 2358832

Manual Integration:

Before

03/09/17

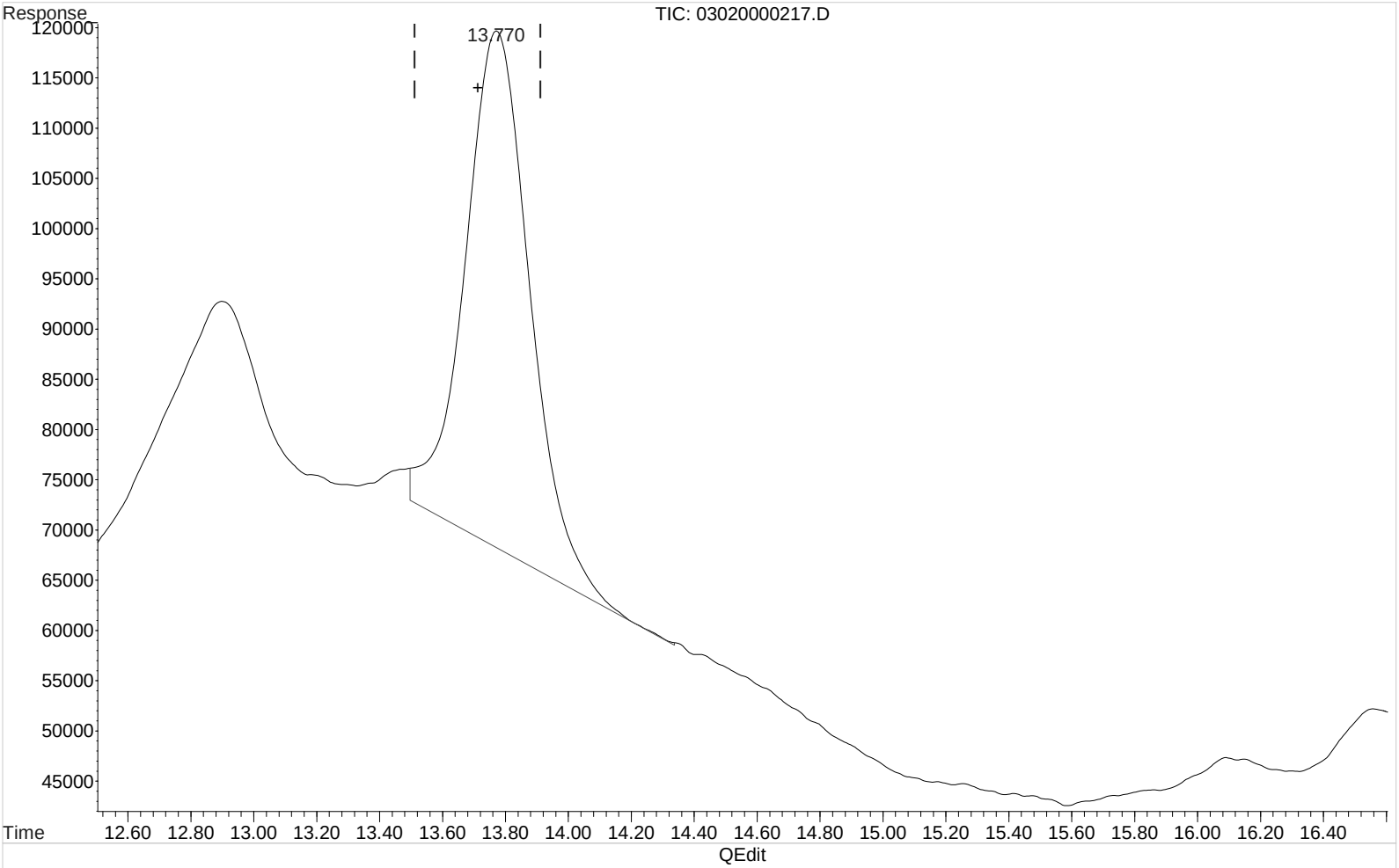
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000217.D Vial: 15
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 21:39:44 Operator: BR
Sample : K1701351-007 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 14:39:18 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(6) 1,3-DNB (T)

13.770min 12.280 ug/L m

response 740250

Manual Integration:

After

Baseline/Shoulder

03/09/17

(+) = Expected Retention Time

(b) (6)

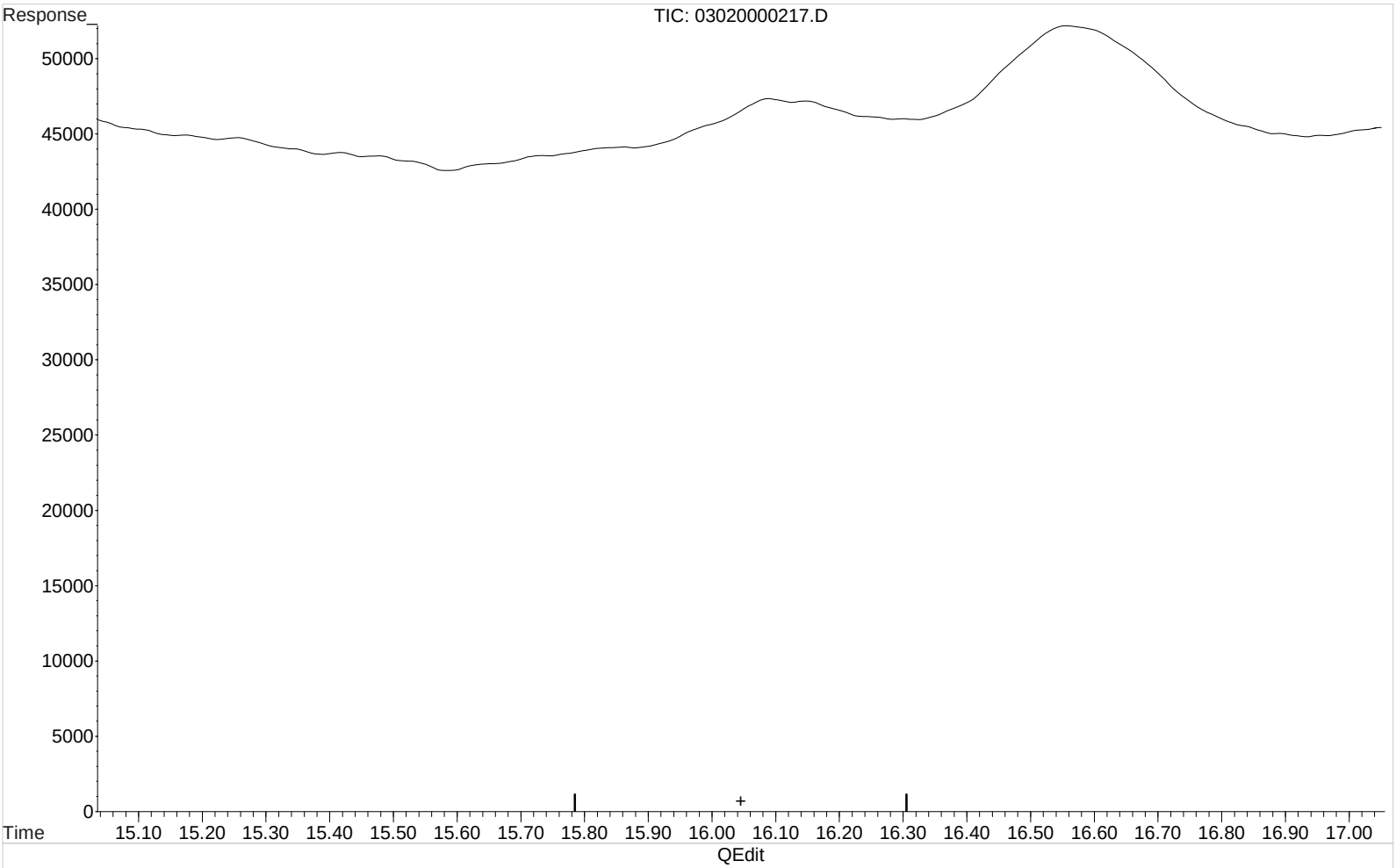
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000217.D Vial: 15
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 21:39:44 Operator: BR
Sample : K1701351-007 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 14:29:52 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(9) Nitrobenzene (T)

16.045min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

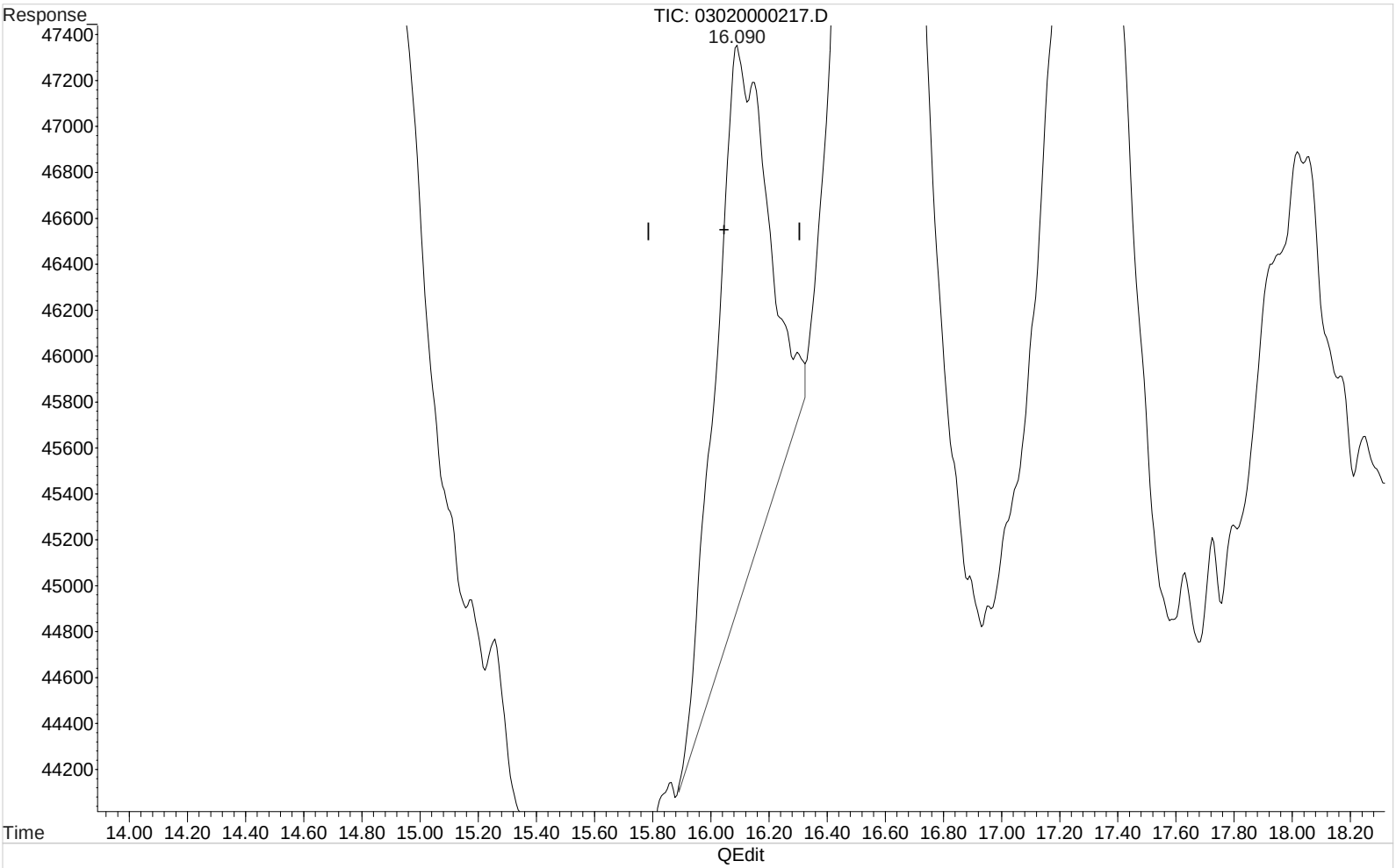
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000217.D Vial: 15
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 21:39:44 Operator: BR
Sample : K1701351-007 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 14:29:52 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.090min 0.791 ug/L m

response 30539

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000217.
Lab ID: K1701351-007
RunType: SMPL
Matrix: SOIL

Date Acquired: 03/02/2017 21:39
Date Quantitated: 03/08/2017 13:46
Batch ID: KWG1701860
Analysis Method: 8330B
ListJoinID: LJ15912

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000217.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 21:39	**Quant Date:**	03/08/2017 13:46	**Vial:**	15
Run Type:	SMPL	**ListJoinID:**	LJ14468	**Dilution:**	1.0
Lab ID:	K1701351-007			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/07/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587769	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ14468
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_210\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.62	0.02	233477284**m**	4,106	82	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.52	0.04	635364**m**	30.48	0.058	U	
Pentaerythritol Tetranitrate	27.70	0.09	907510**m**	51.58	0.11	U	

Prep Amount:	10.212 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	98.7 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000217.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 21:39	**Quant Date:**	03/08/2017 13:46	**Vial:**	15
Run Type:	SMPL	**ListJoinID:**	LJ15912	**Dilution:**	1.0
Lab ID:	K1701351-007			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/07/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587769	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ15912
		Method ID:	MJ1432
MB Ref:	J:\LC10\DATA\030317_8330_210\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.62	0.02	233477284**m**	4,106	82	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.52	0.04	635364**m**	30.48	0.058	U	
Pentaerythritol Tetranitrate	27.70	0.09	907510**m**	51.58	0.11	U	

Prep Amount:	10.212 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	98.7 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000217.D Vial: 15
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 21:39:44 Operator: BR
Sample : K1701351-007 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 13:46:30 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.617	233477284	4106.045	ug/L	m
Target Compounds						
1) T	Nitroglycerin	16.517	635364	30.478	ug/L	m
2) T	PETN	27.704	907510	51.576	ug/L	m

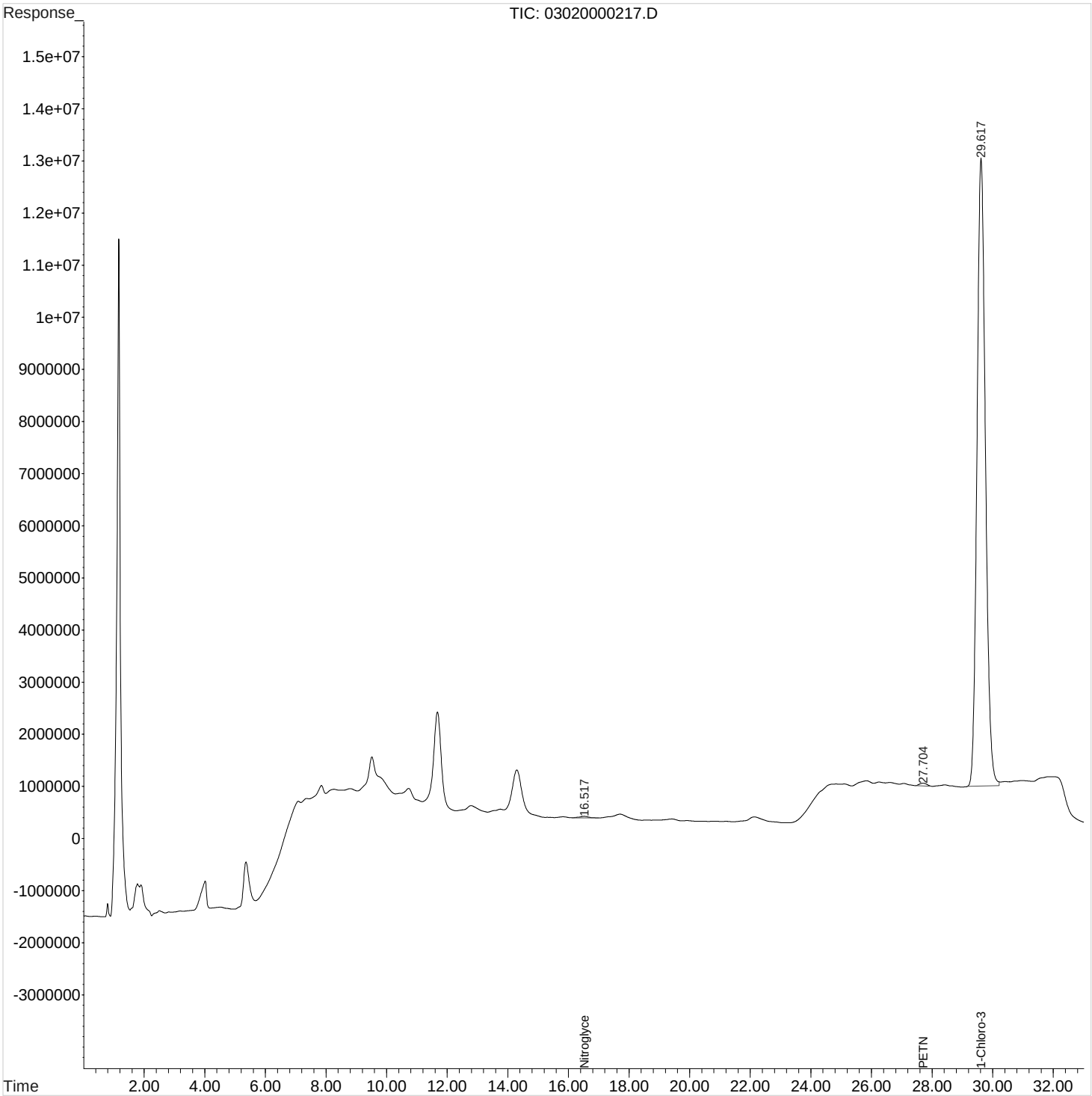
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000217.D Vial: 15
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 21:39:44 Operator: BR
Sample : K1701351-007 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 13:46:30 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

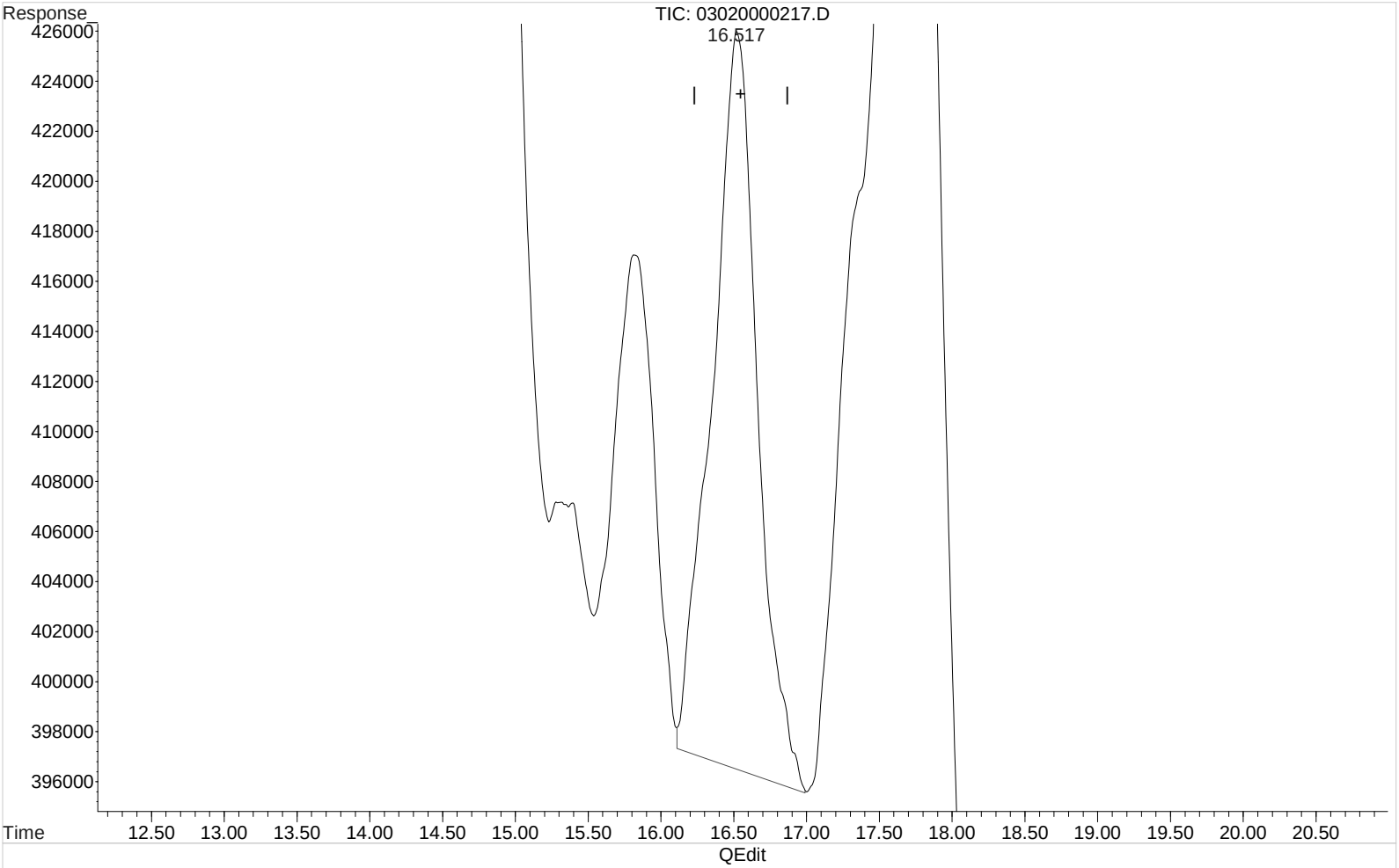


Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000217.D Vial: 15
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 21:39:44 Operator: BR
Sample : K1701351-007 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:42:57 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.517min 30.478 ug/L m

response 635364

Manual Integration:

After

BLC

03/08/17

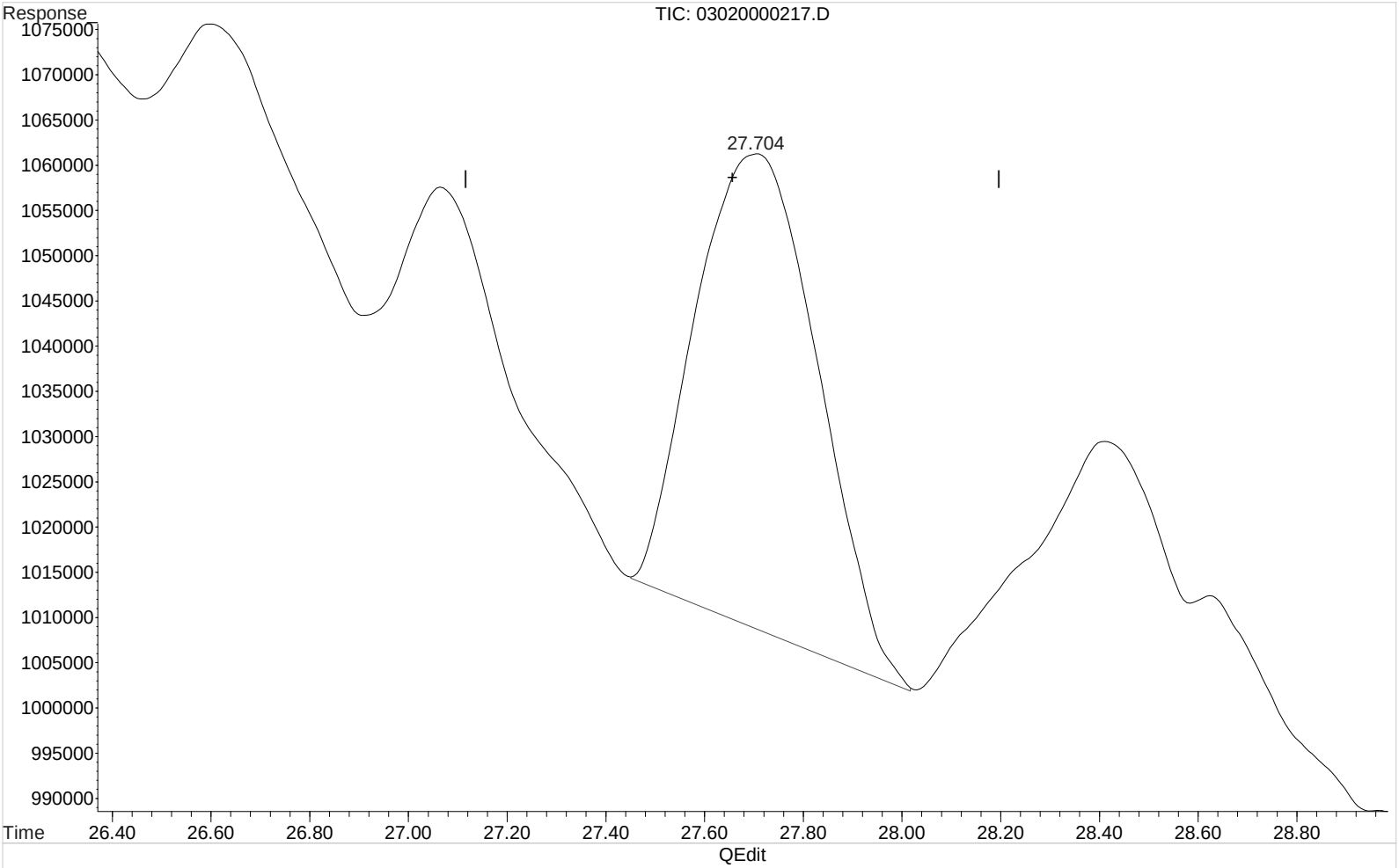
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000217.D Vial: 15
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 21:39:44 Operator: BR
Sample : K1701351-007 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:42:57 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.704min 51.576 ug/L m

response 907510

Manual Integration:

After

BLC

03/08/17

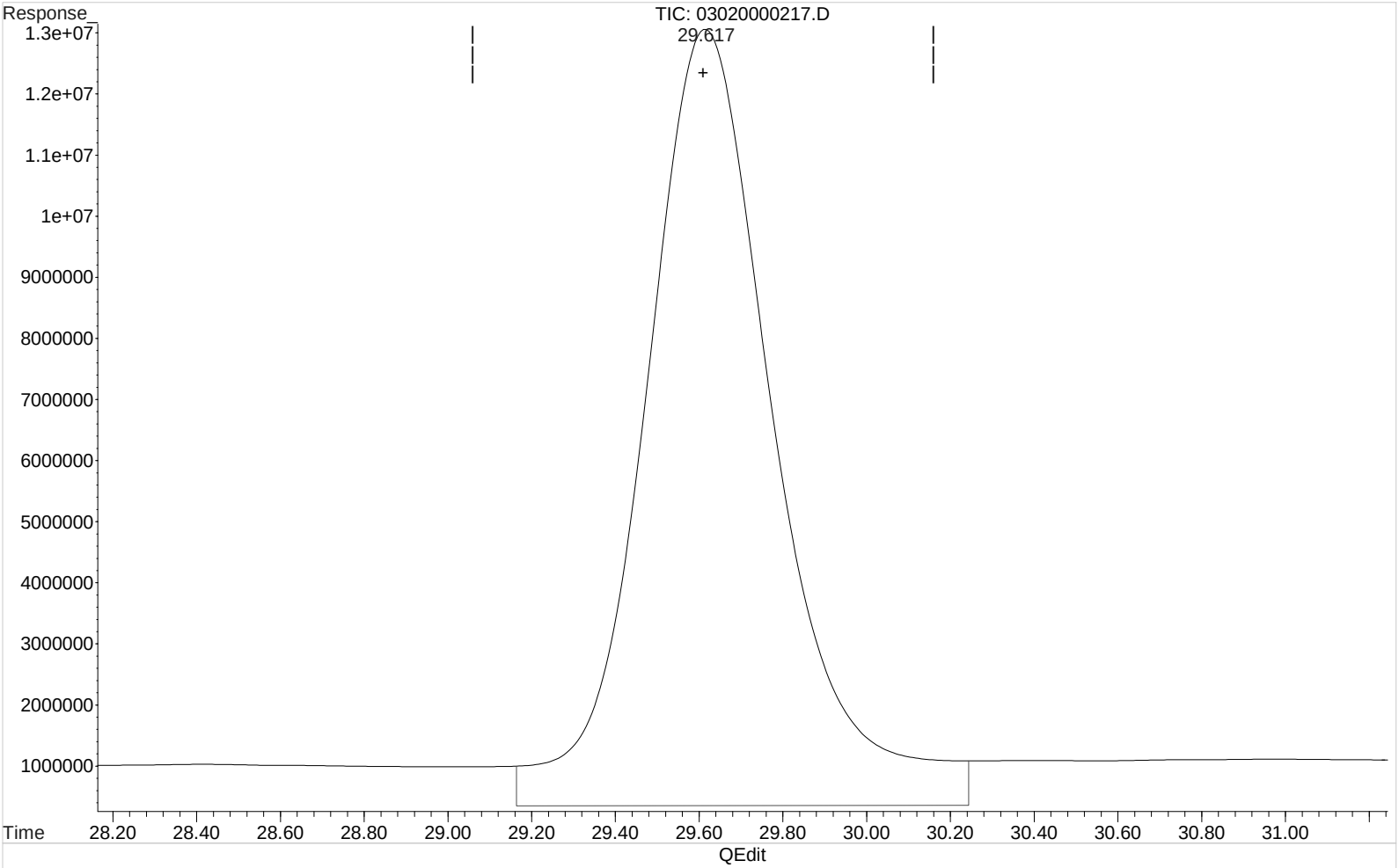
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000217.D Vial: 15
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 21:39:44 Operator: BR
Sample : K1701351-007 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:00:08 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.617min 4856.631 ug/L

response 276157013

Manual Integration:

Before

03/06/17

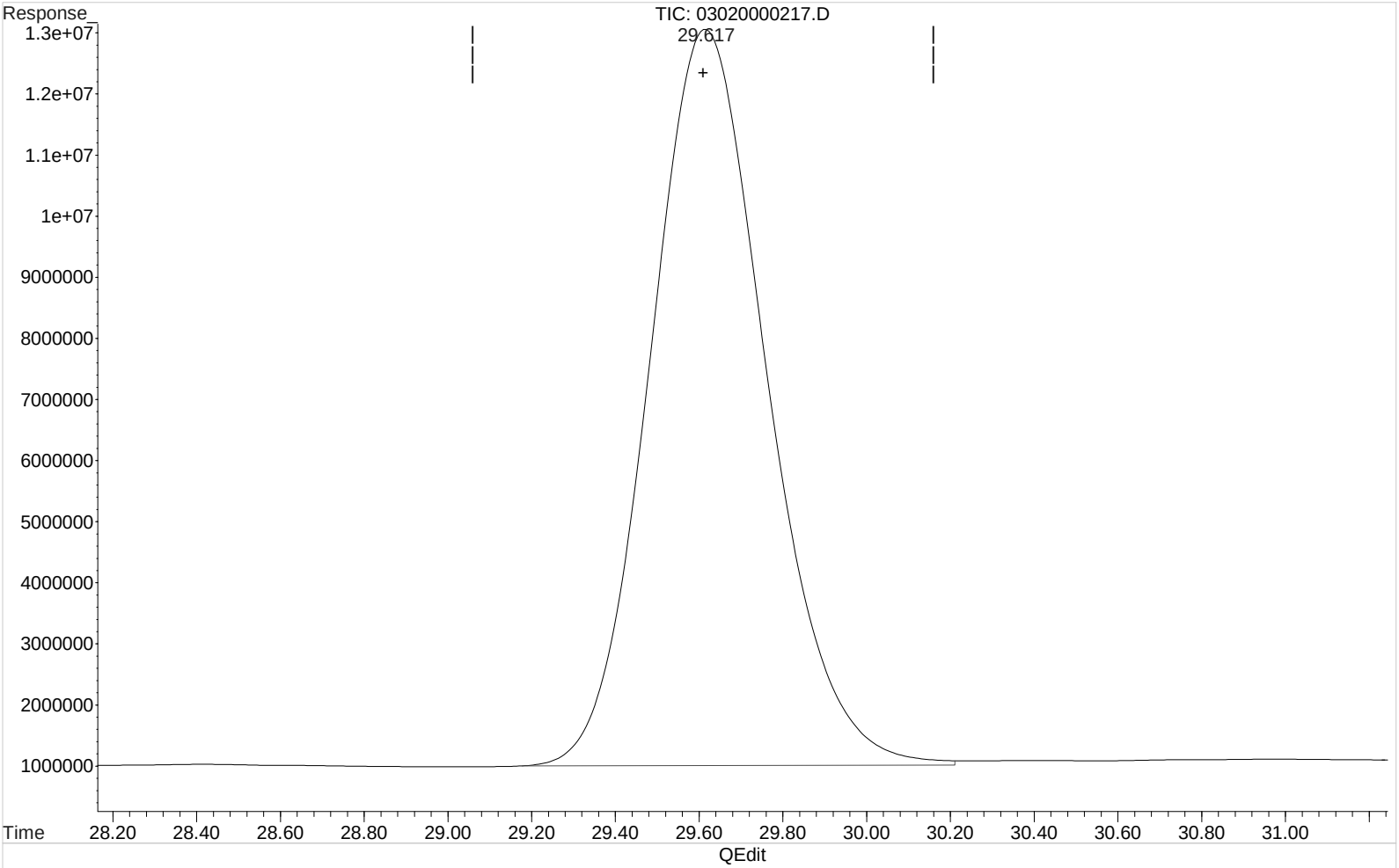
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000217.D Vial: 15
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 21:39:44 Operator: BR
Sample : K1701351-007 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:00:08 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

29.617min 4106.045 ug/L m

response 233477284

Manual Integration:

After

BLC

03/06/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000218.
Lab ID: K1701351-008
RunType: SMPL
Matrix: SOIL

Date Acquired: 03/02/2017 22:15
Date Quantitated: 03/09/2017 16:10
Batch ID: KWG1701858
Analysis Method: 8330B
ListJoinID: LJ15912

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000218.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 22:15	**Quant Date:**	03/09/2017 16:10	**Vial:**	16
Run Type:	SMPL	**ListJoinID:**	LJ14468	**Dilution:**	1.0
Lab ID:	K1701351-008			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/07/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701858	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587770	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ14468
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_254\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.61	0.01	89612162	4,147	83	34-135	OK	

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0		0.0064	U	
RDX			0		0.049	U	
1,3,5-Trinitrobenzene			0**d**		0.027	U	
1,3-Dinitrobenzene			0		0.012	U	
TETRYL			0		0.041	U	
Nitrobenzene	16.13	0.05	52858**m**	1.37	0.0044	U	
2,4,6-Trinitrotoluene	17.29		41898**m**	1.01	0.018	U	
4-Amino-2,6-dinitrotoluene			0		0.0051	U	
2-Amino-4,6-dinitrotoluene			0		0.0075	U	
2,6-Dinitrotoluene			0		0.0051	U	
2,4-Dinitrotoluene	21.83	-0.23	247939**m**	4.19	0.041	U	
2-Nitrotoluene			0		0.0071	U	
4-Nitrotoluene			0		0.018	U	
3-Nitrotoluene	27.09	-0.19	238574**m**	11.85	0.018	U	

Prep Amount:	10.220 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	98.9 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000218.D Vial: 16
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 22:15:58 Operator: BR
Sample : K1701351-008 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 09 16:10:01 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
18) S	1-Chloro-3-Nitrobenzene	29.612	89612162	4146.950	ug/L	
	Target Compounds					
1) T	2,6-Diamino-4-nitroto...	4.319	6074	NoCal	ug/L	
2) T	HMX	0.000	0	N.D.	ug/L	
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4) T	RDX	0.000	0	N.D.	ug/L	
5) T	1,3,5-TNB	0.000	0	N.D.	ug/L	d
6) T	1,3-DNB	0.000	0	N.D.	ug/L	
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L	
8) T	Tetryl	0.000	0	N.D.	ug/L	
9) T	Nitrobenzene	16.132	52858	1.369	ug/L	m
10) T	2,4,6-TNT	17.286	41898	1.006	ug/L	m
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L	
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L	
13) T	2,6-DNT	0.000	0	N.D.	ug/L	
14) T	2,4-DNT	21.832	247939	4.186	ug/L	m
15) T	2-NT	0.000	0	N.D.	ug/L	
16) T	4-NT	0.000	0	N.D.	ug/L	
17) T	3-NT	27.086	238574	11.848	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] (g) (g) 03/14/17 03/29/17

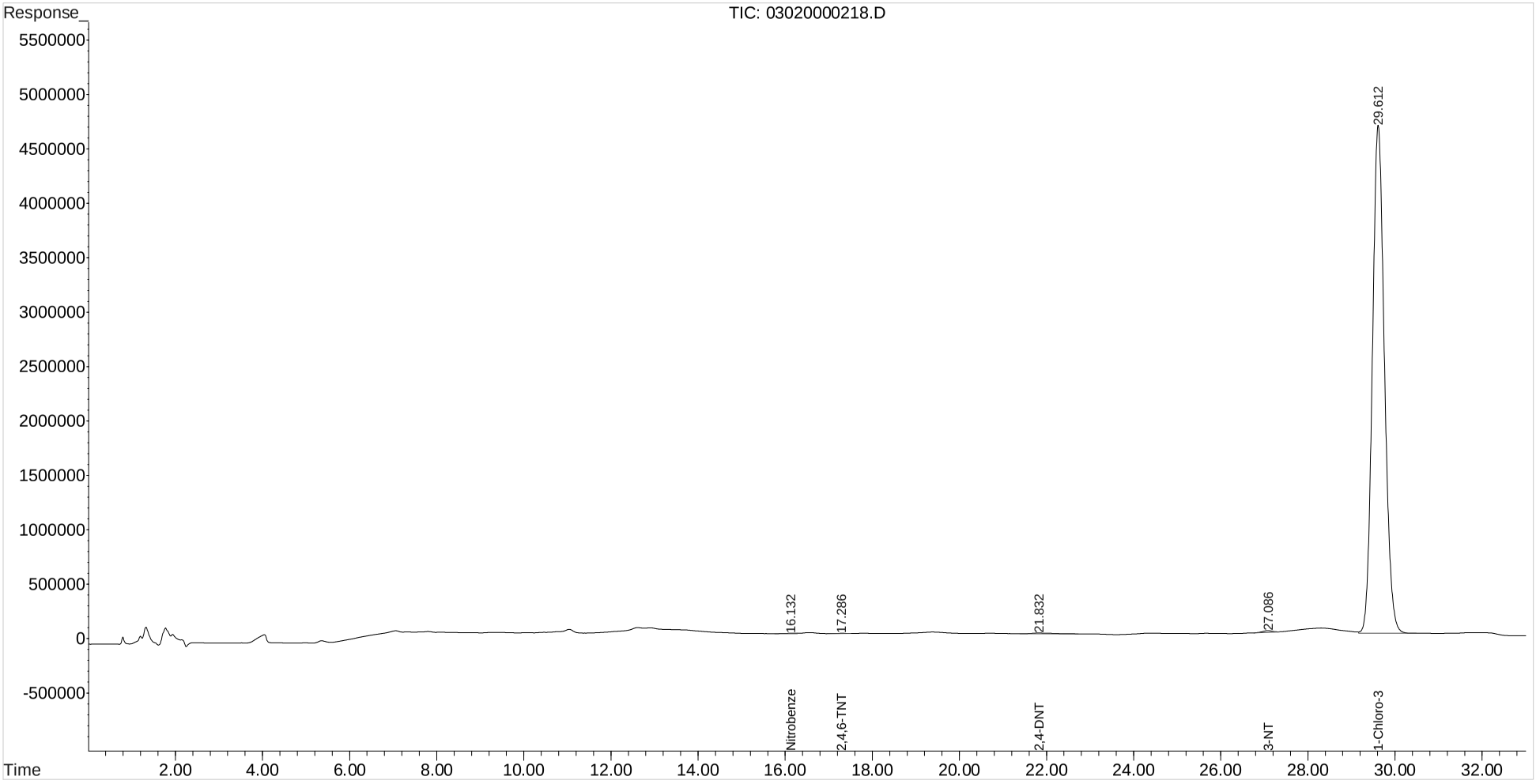
Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000218.D Vial: 16
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 22:15:58 Operator: BR
Sample : K1701351-008 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 09 16:10:01 2017
Quant Results File: 120716_8330B@254.RES

11/01/2018

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



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012073

(b) (6)

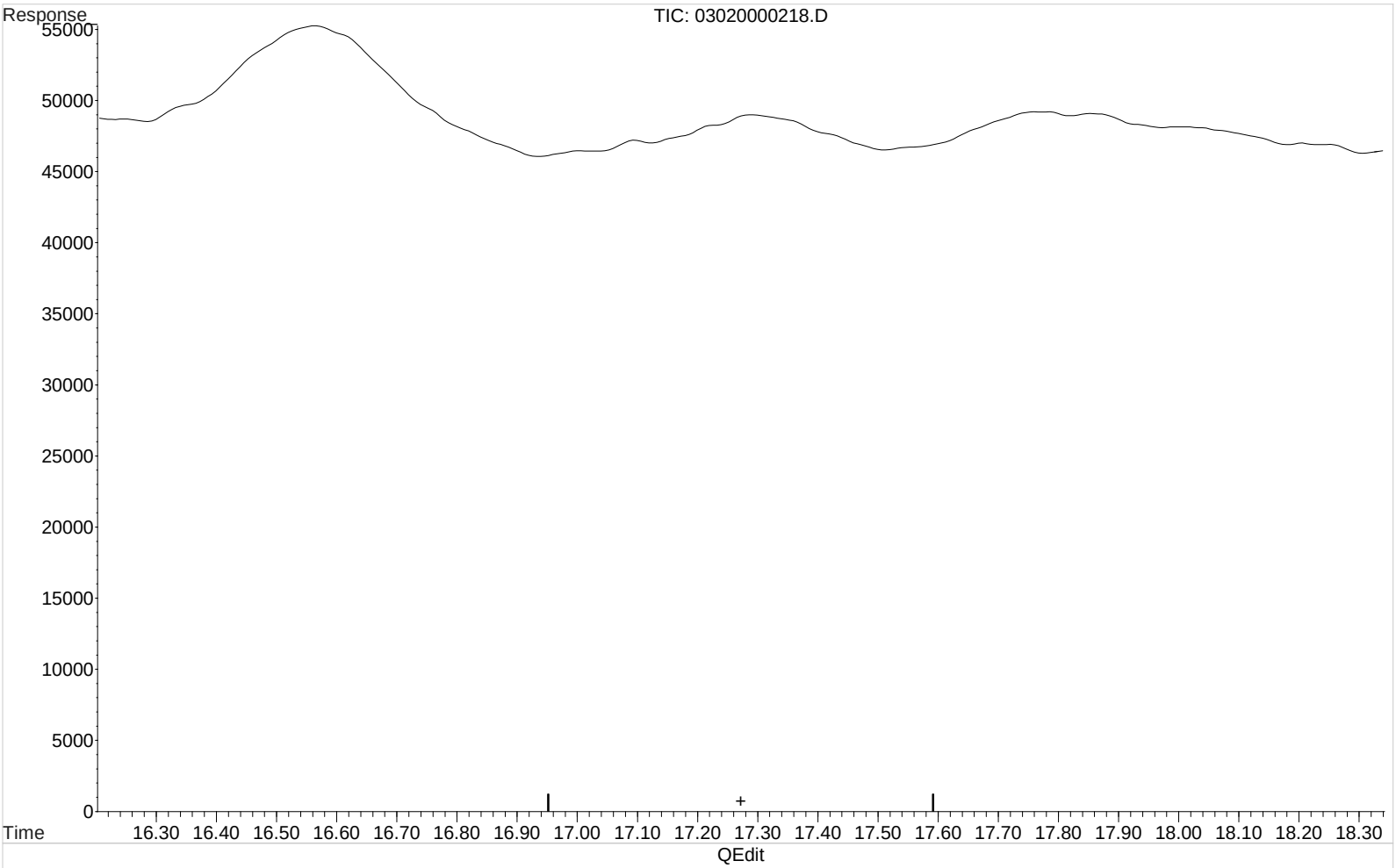
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000218.D Vial: 16
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 22:15:58 Operator: BR
Sample : K1701351-008 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:55 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(10) 2,4,6-TNT (T)

17.272min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

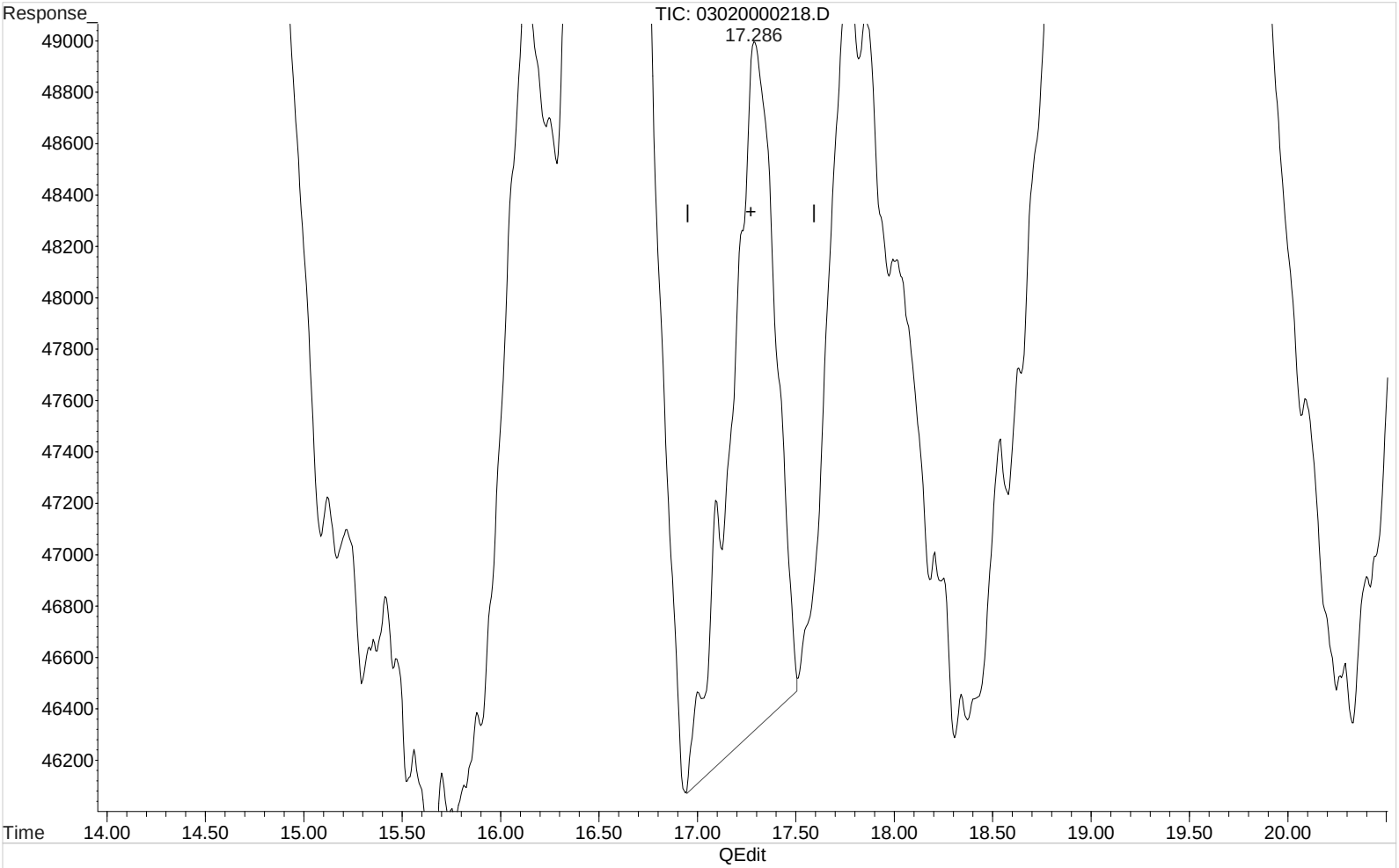
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000218.D Vial: 16
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 22:15:58 Operator: BR
Sample : K1701351-008 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:55 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(10) 2,4,6-TNT (T)

17.286min 1.006 ug/L m

response 41898

Manual Integration:

After

BLC

03/08/17

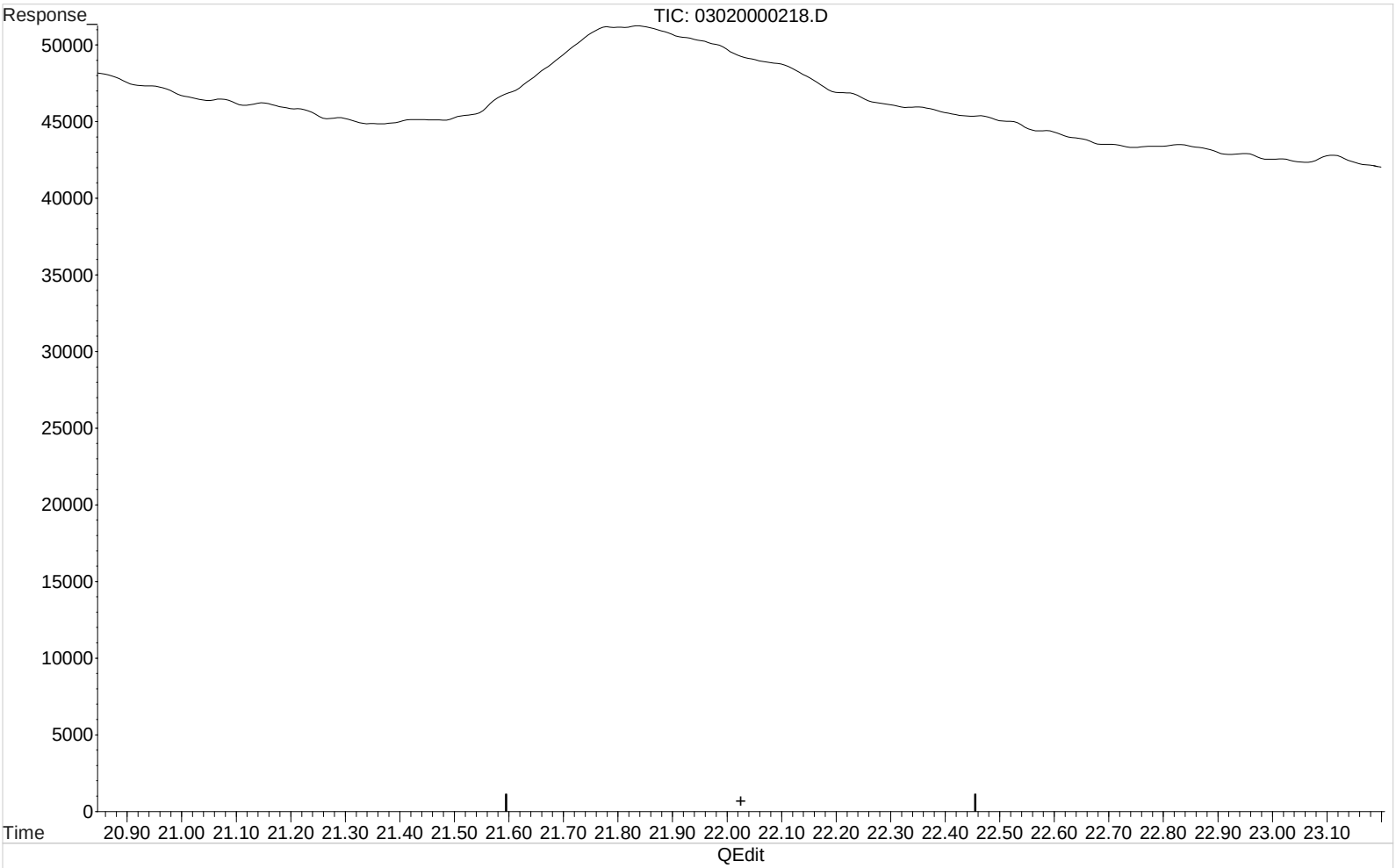
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000218.D Vial: 16
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 22:15:58 Operator: BR
Sample : K1701351-008 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:55 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.025min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

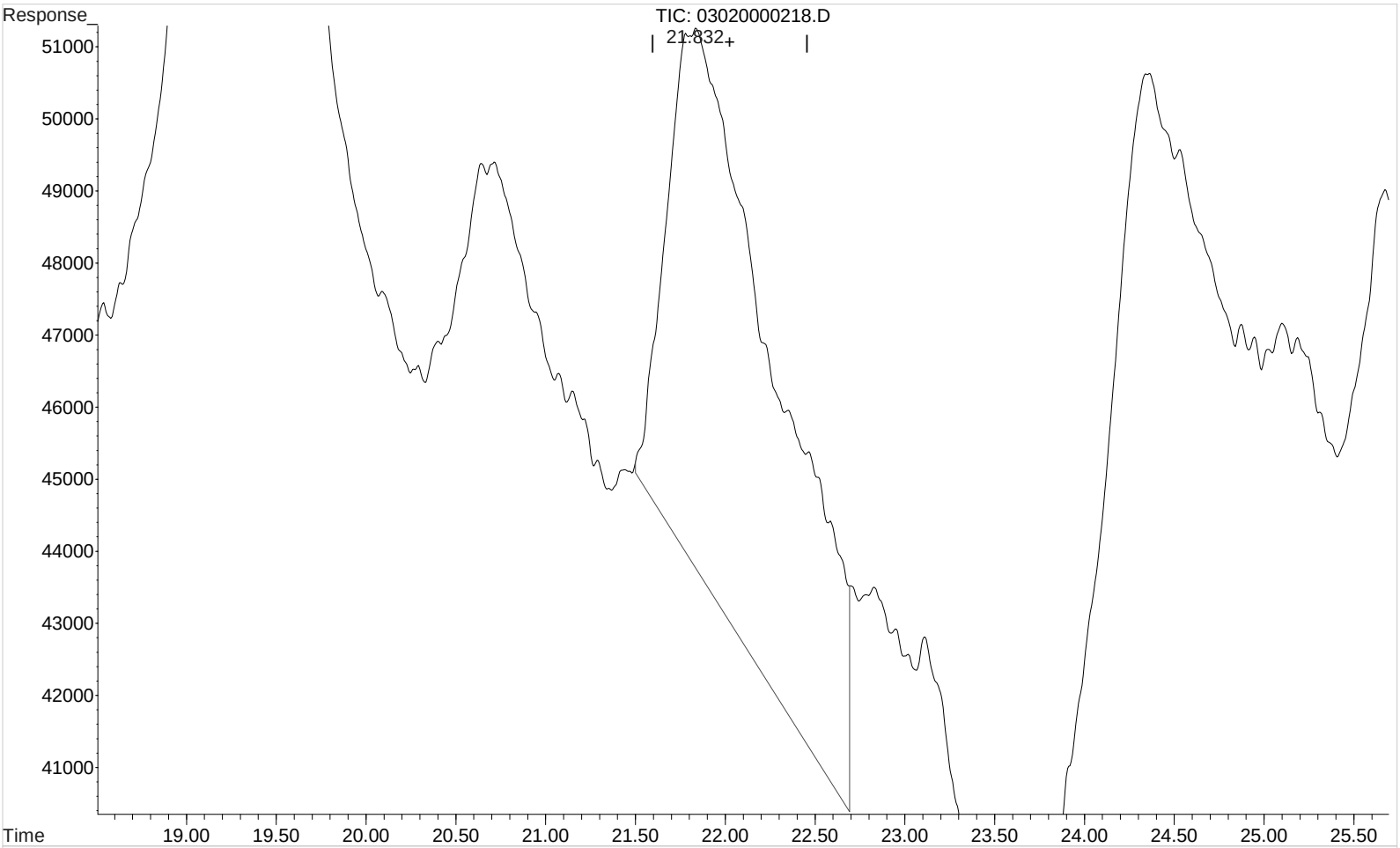
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000218.D Vial: 16
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 22:15:58 Operator: BR
Sample : K1701351-008 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:55 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

21.832min 5.687 ug/L m

response 336873

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

(b) (6)

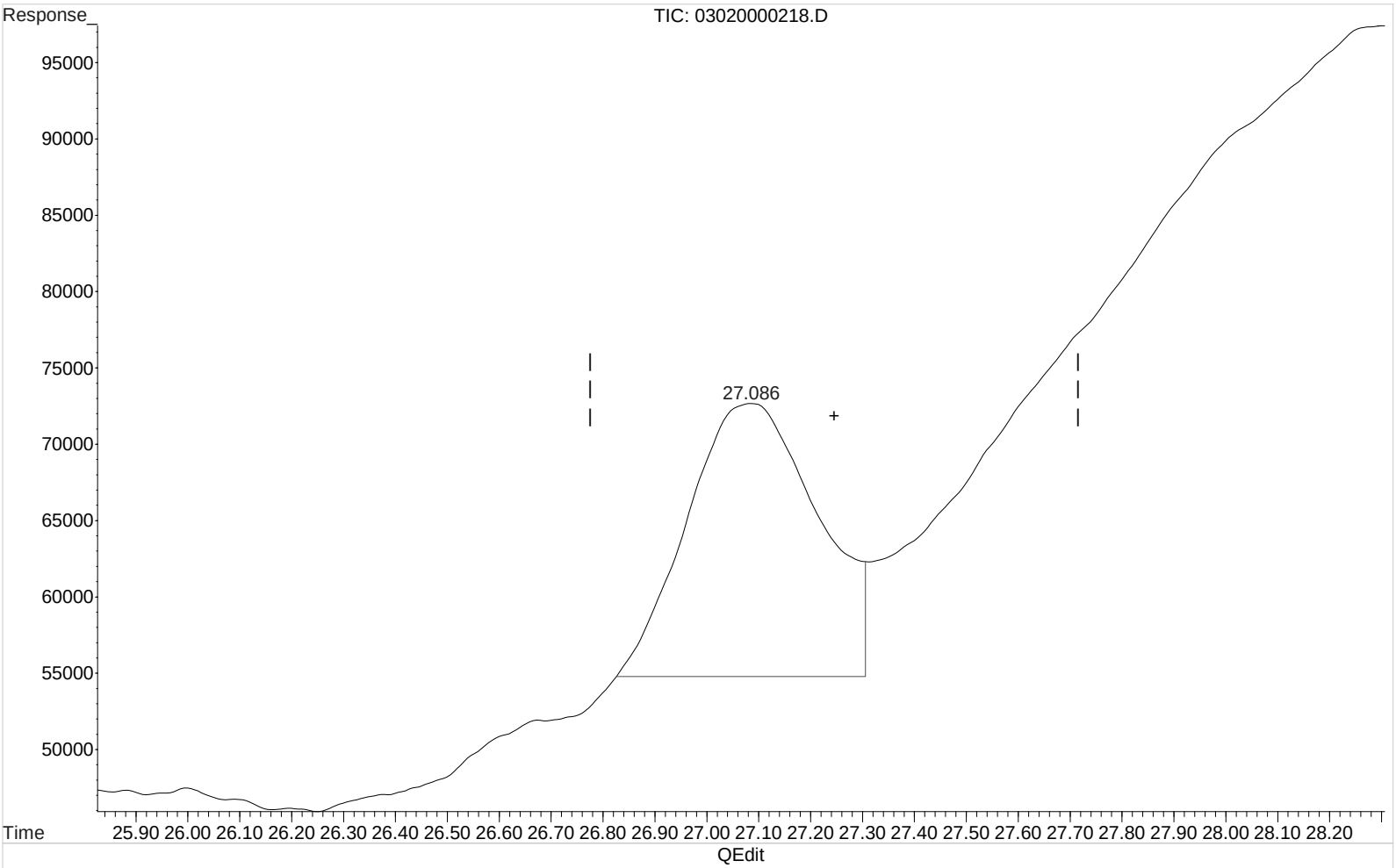
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000218.D Vial: 16
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 22:15:58 Operator: BR
Sample : K1701351-008 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:55 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(17) 3-NT (T)

27.086min 15.593 ug/L

response 313978

Manual Integration:

Before

03/08/17

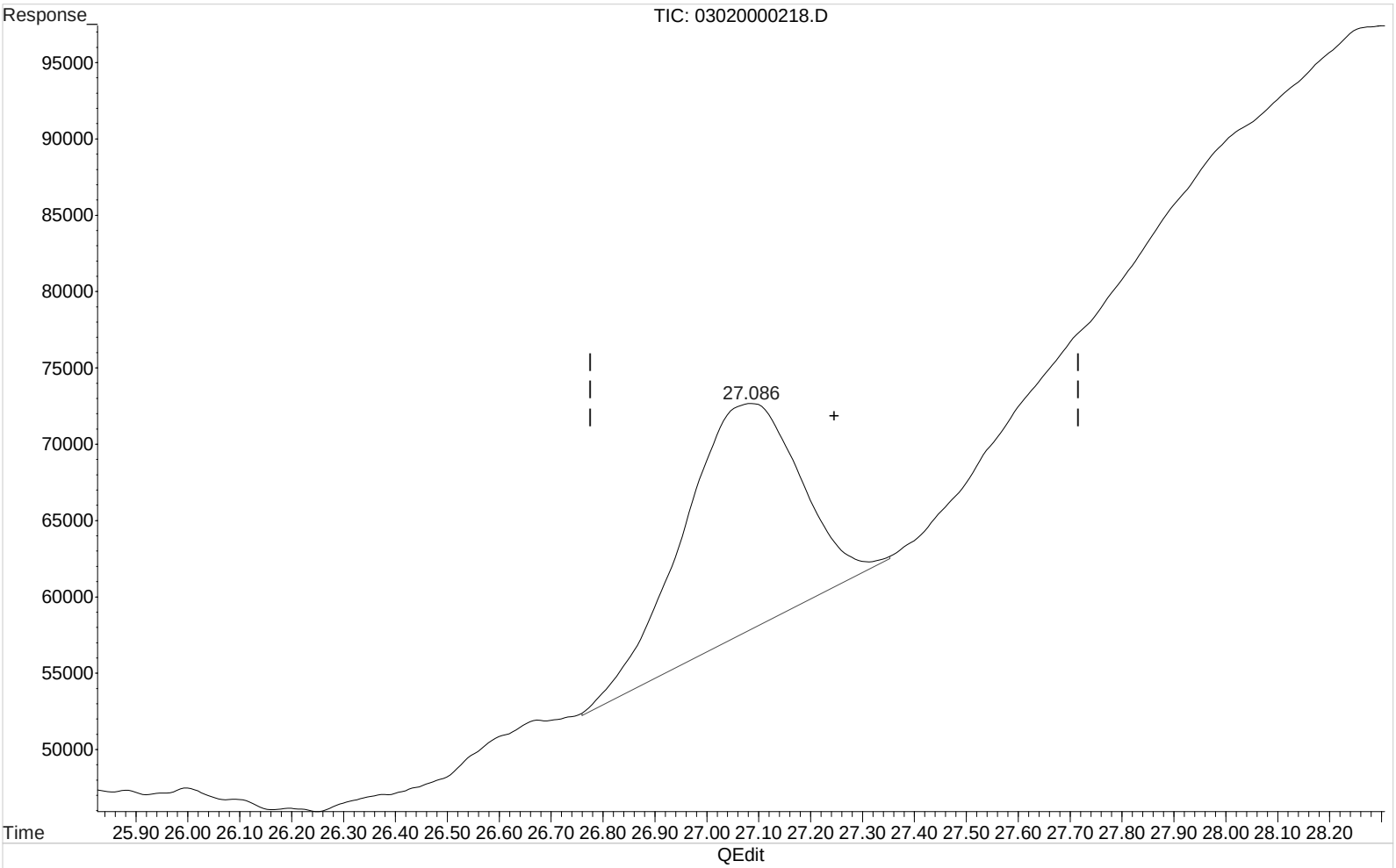
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000218.D Vial: 16
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 22:15:58 Operator: BR
Sample : K1701351-008 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:55 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(17) 3-NT (T)

27.086min 11.848 ug/L m

response 238574

Manual Integration:

After

BLC

03/08/17

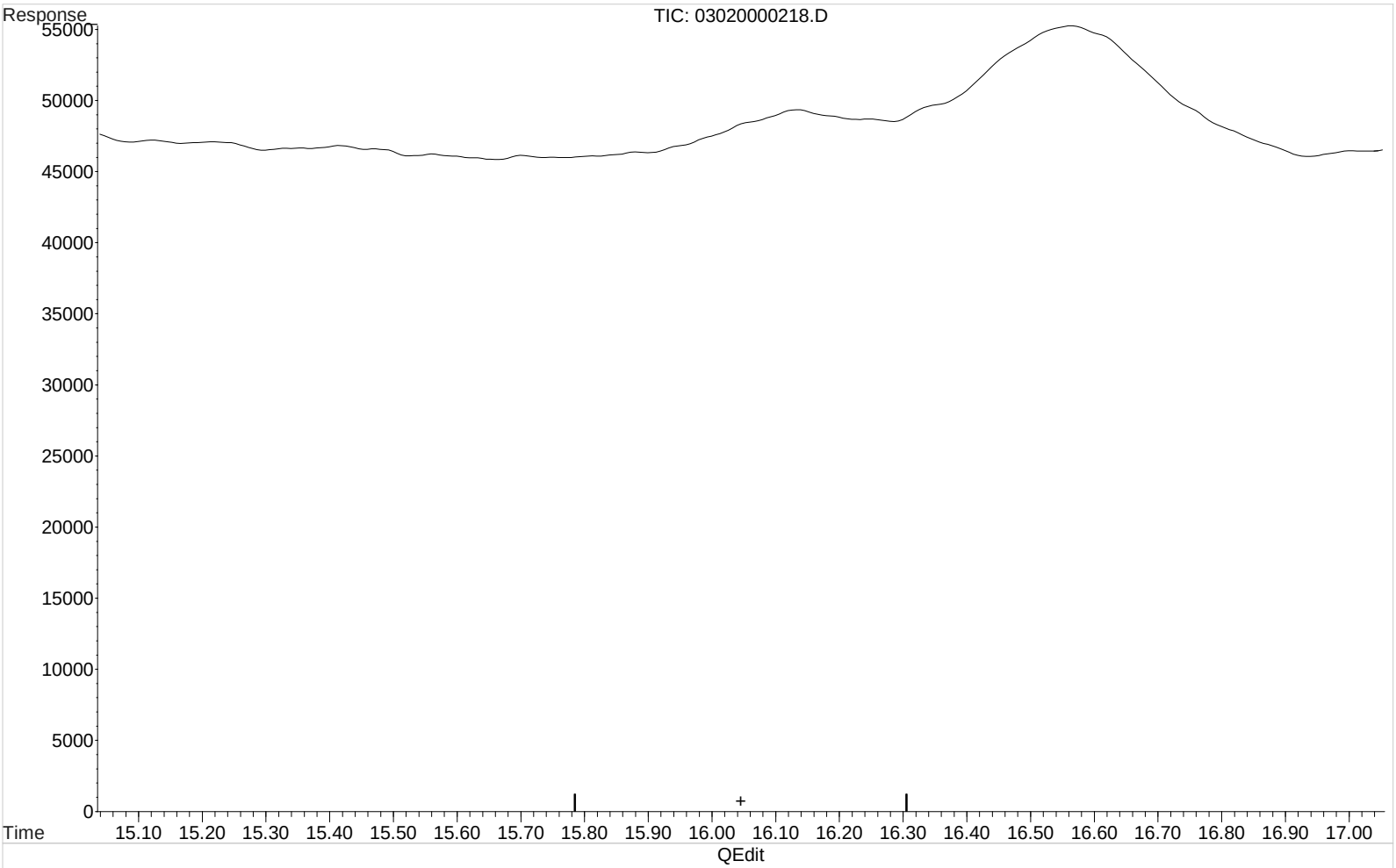
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000218.D Vial: 16
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 22:15:58 Operator: BR
Sample : K1701351-008 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:55 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

0.000min 0.000 ug/L d

response 0

Manual Integration:

Before

03/08/17

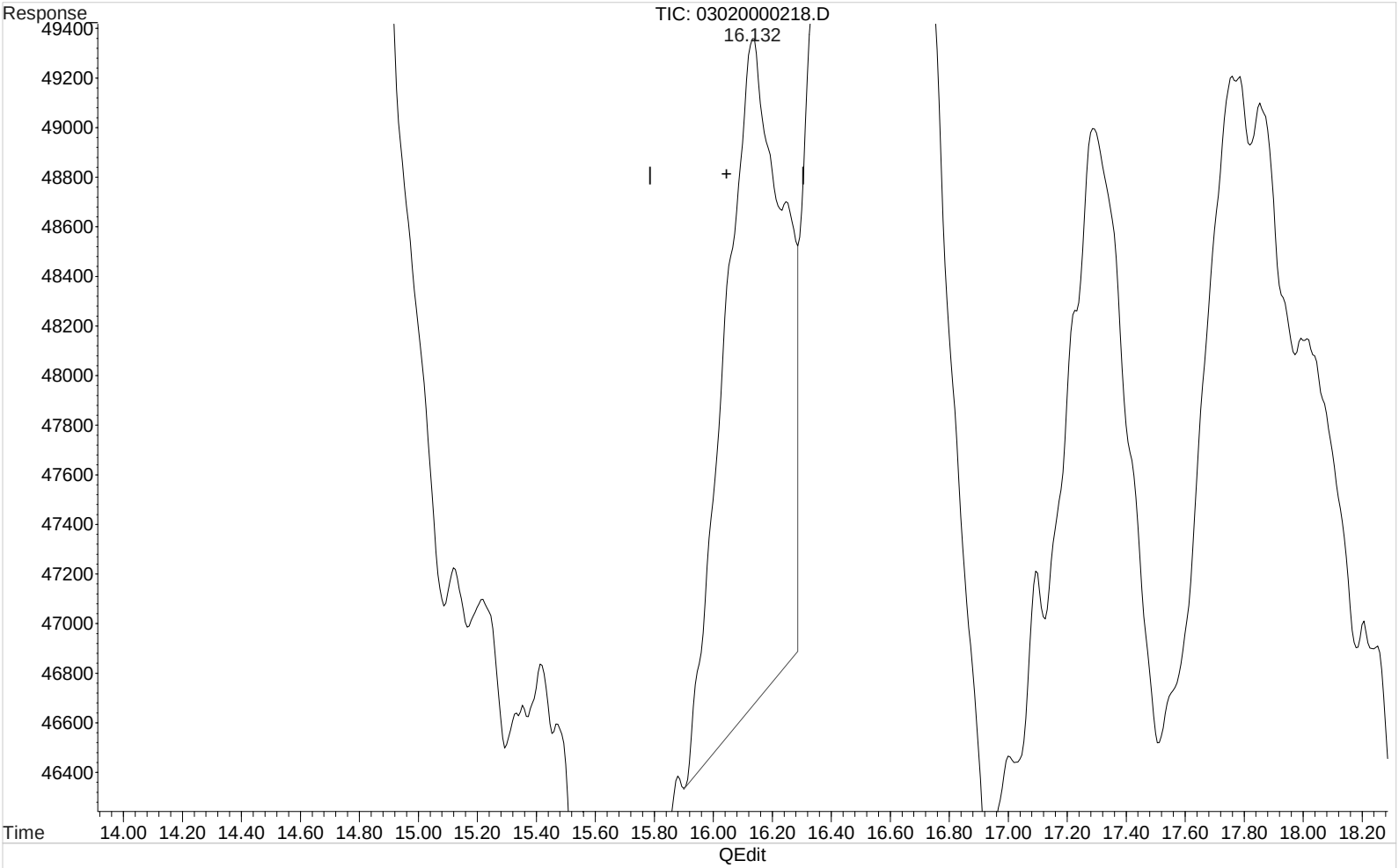
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000218.D Vial: 16
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 22:15:58 Operator: BR
Sample : K1701351-008 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:55 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.132min 0.973 ug/L m

response 37590

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000218.
Lab ID: K1701351-008
RunType: SMPL
Matrix: SOIL

Date Acquired: 03/02/2017 22:15
Date Quantitated: 03/08/2017 13:46
Batch ID: KWG1701860
Analysis Method: 8330B
ListJoinID: LJ15912

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000218.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 22:15	**Quant Date:**	03/08/2017 13:46	**Vial:**	16
Run Type:	SMPL	**ListJoinID:**	LJ14468	**Dilution:**	1.0
Lab ID:	K1701351-008			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/07/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587770	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ14468
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_210\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.61	0.01	236732756	4,163	83	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.53	0.05	763193	36.61	0.058	U	
Pentaerythritol Tetranitrate	27.59	-0.02	708292**m**	40.25	0.11	U	

Prep Amount:	10.220 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	98.9 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000218.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 22:15	**Quant Date:**	03/08/2017 13:46	**Vial:**	16
Run Type:	SMPL	**ListJoinID:**	LJ15912	**Dilution:**	1.0
Lab ID:	K1701351-008			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/07/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587770	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ15912
		Method ID:	MJ1432
MB Ref:	J:\LC10\DATA\030317_8330_210\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.61	0.01	236732756	4,163	83	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.53	0.05	763193	36.61	0.058	U	
Pentaerythritol Tetranitrate	27.59	-0.02	708292**m**	40.25	0.11	U	

Prep Amount:	10.220 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	98.9 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000218.D Vial: 16
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 22:15:58 Operator: BR
Sample : K1701351-008 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 13:46:59 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
3) S	1-Chloro-3-Nitrobenzene	29.612	236732756	4163.297	ug/L
Target Compounds					
1) T	Nitroglycerin	16.526	763193	36.610	ug/L
2) T	PETN	27.586	708292	40.254	ug/L m

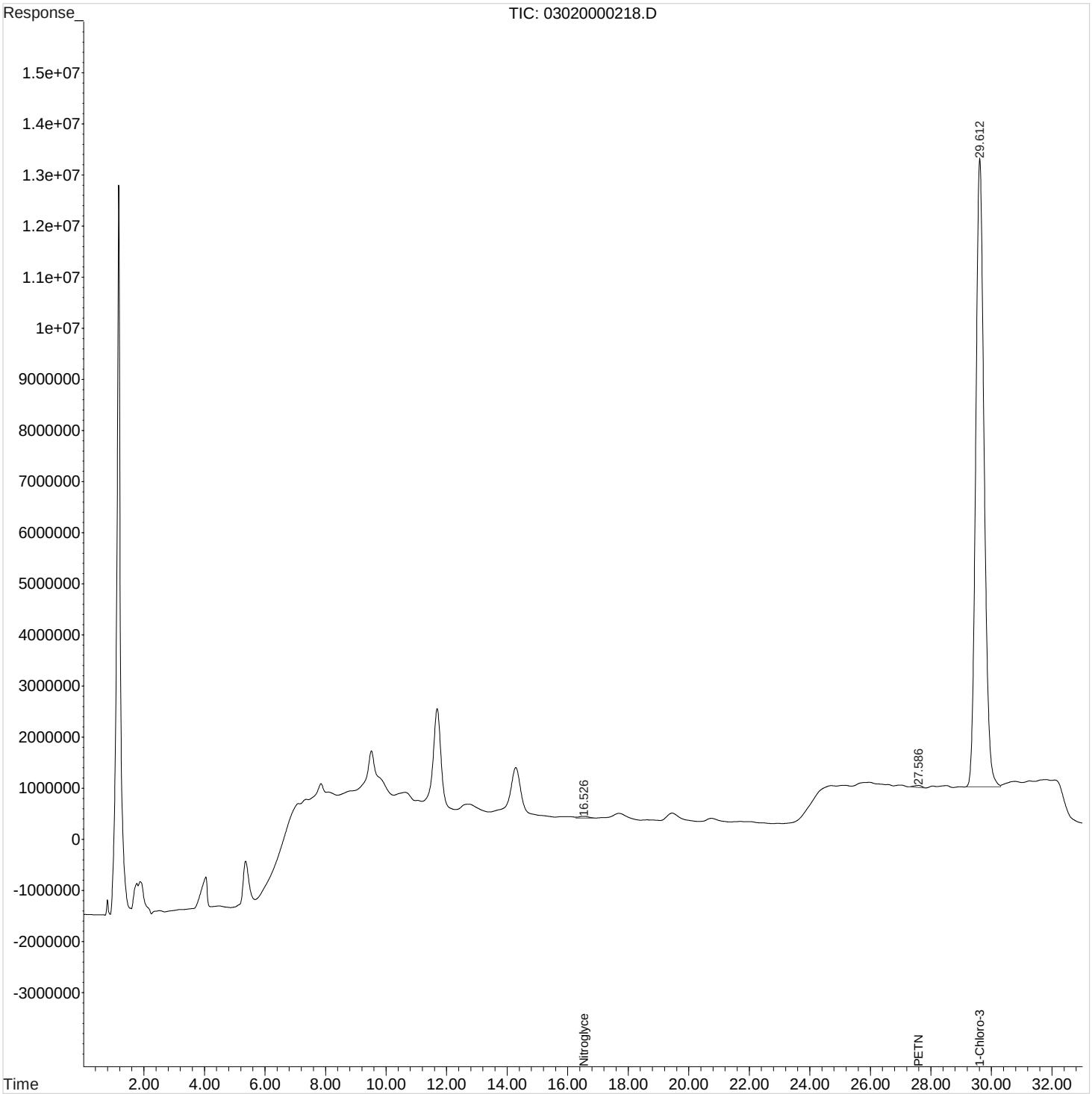
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000218.D Vial: 16
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 22:15:58 Operator: BR
Sample : K1701351-008 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 13:46:59 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

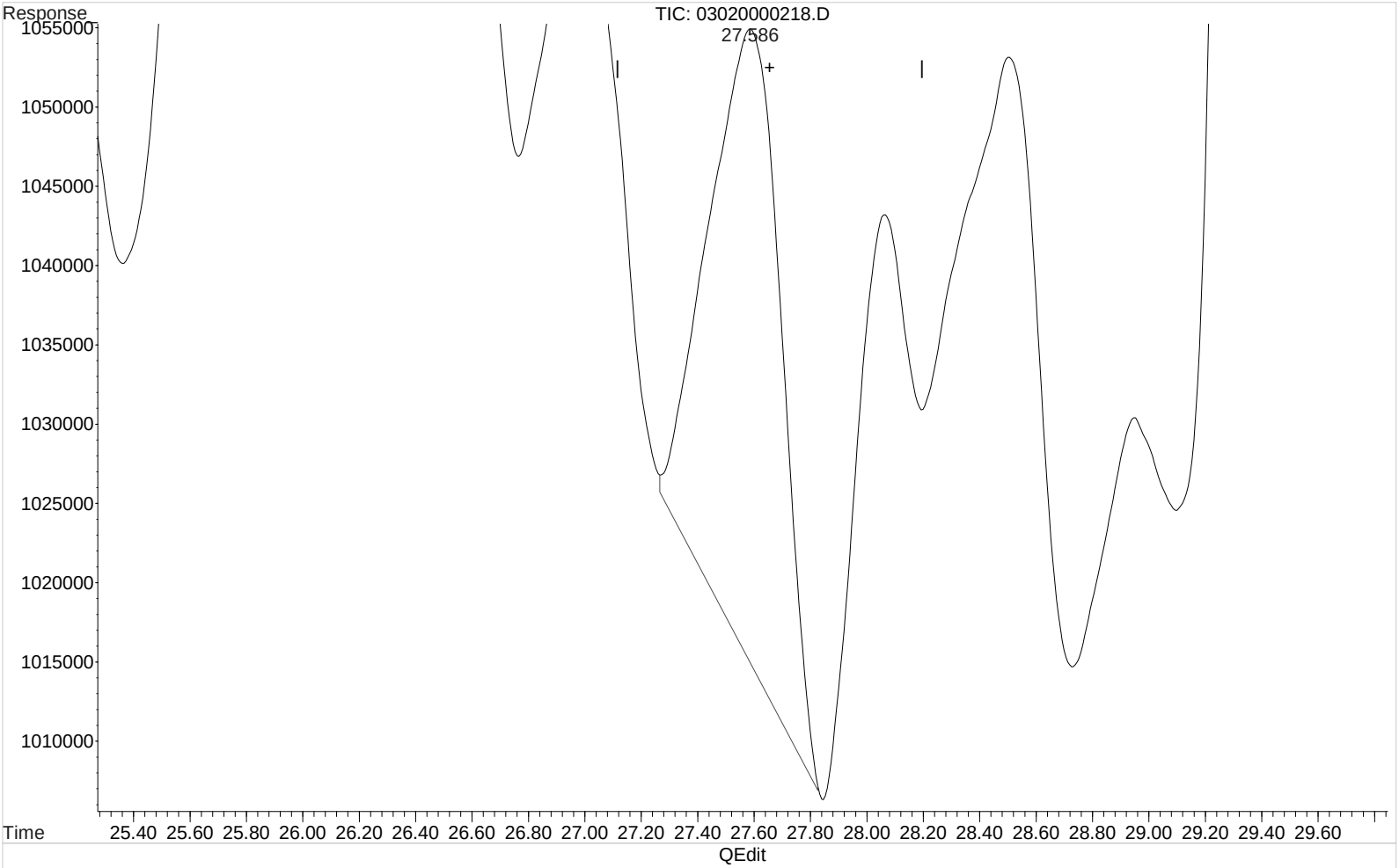


Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000218.D Vial: 16
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 22:15:58 Operator: BR
Sample : K1701351-008 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:43:15 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.586min 40.254 ug/L m

response 708292

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000219.
Lab ID: K1701351-009
RunType: SMPL
Matrix: SOIL

Date Acquired: 03/02/2017 22:52
Date Quantitated: 03/08/2017 14:44
Batch ID: KWG1701858
Analysis Method: 8330B
ListJoinID: LJ15912

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000219.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 22:52	**Quant Date:**	03/08/2017 14:44	**Vial:**	17
Run Type:	SMPL	**ListJoinID:**	LJ14468	**Dilution:**	1.0
Lab ID:	K1701351-009			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/07/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701858	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587771	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ14468
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_254\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.60	0.00	88913501	4,115	82	34-135	OK	

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0		0.0064	U	
RDX			0		0.049	U	
1,3,5-Trinitrobenzene			0		0.027	U	
1,3-Dinitrobenzene			0		0.012	U	
TETRYL			0		0.041	U	
Nitrobenzene	16.04	-0.04	498368**m**	12.91	0.010	J	
2,4,6-Trinitrotoluene	17.30	0.01	172290**m**	4.14	0.018	U	
4-Amino-2,6-dinitrotoluene			0		0.0051	U	
2-Amino-4,6-dinitrotoluene			0		0.0075	U	
2,6-Dinitrotoluene			0		0.0051	U	
2,4-Dinitrotoluene	22.03	-0.03	498461**m**	8.42	0.041	U	
2-Nitrotoluene			0		0.0071	U	
4-Nitrotoluene			0		0.018	U	
3-Nitrotoluene	27.07	-0.21	238688**m**	11.85	0.018	U	

Prep Amount:	10.159 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99.1 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000219.D Vial: 17
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 22:52:11 Operator: BR
Sample : K1701351-009 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 14:44:24 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
18) S	1-Chloro-3-Nitrobenzene	29.597	88913501	4114.618	ug/L	
	Target Compounds					
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2) T	HMX	0.000	0	N.D.	ug/L	
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4) T	RDX	0.000	0	N.D.	ug/L	
5) T	1,3,5-TNB	0.000	0	N.D.	ug/L	
6) T	1,3-DNB	0.000	0	N.D.	ug/L	
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L	
8) T	Tetryl	0.000	0	N.D.	ug/L	
9) T	Nitrobenzene	16.037	498368	12.906	ug/L	m
10) T	2,4,6-TNT	17.297	172290	4.136	ug/L	m
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L	
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L	
13) T	2,6-DNT	0.000	0	N.D.	ug/L	
14) T	2,4-DNT	22.030	498461	8.415	ug/L	m
15) T	2-NT	0.000	0	N.D.	ug/L	
16) T	4-NT	0.000	0	N.D.	ug/L	
17) T	3-NT	27.070	238688	11.854	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] (g) (g) 03/14/17 03/29/17

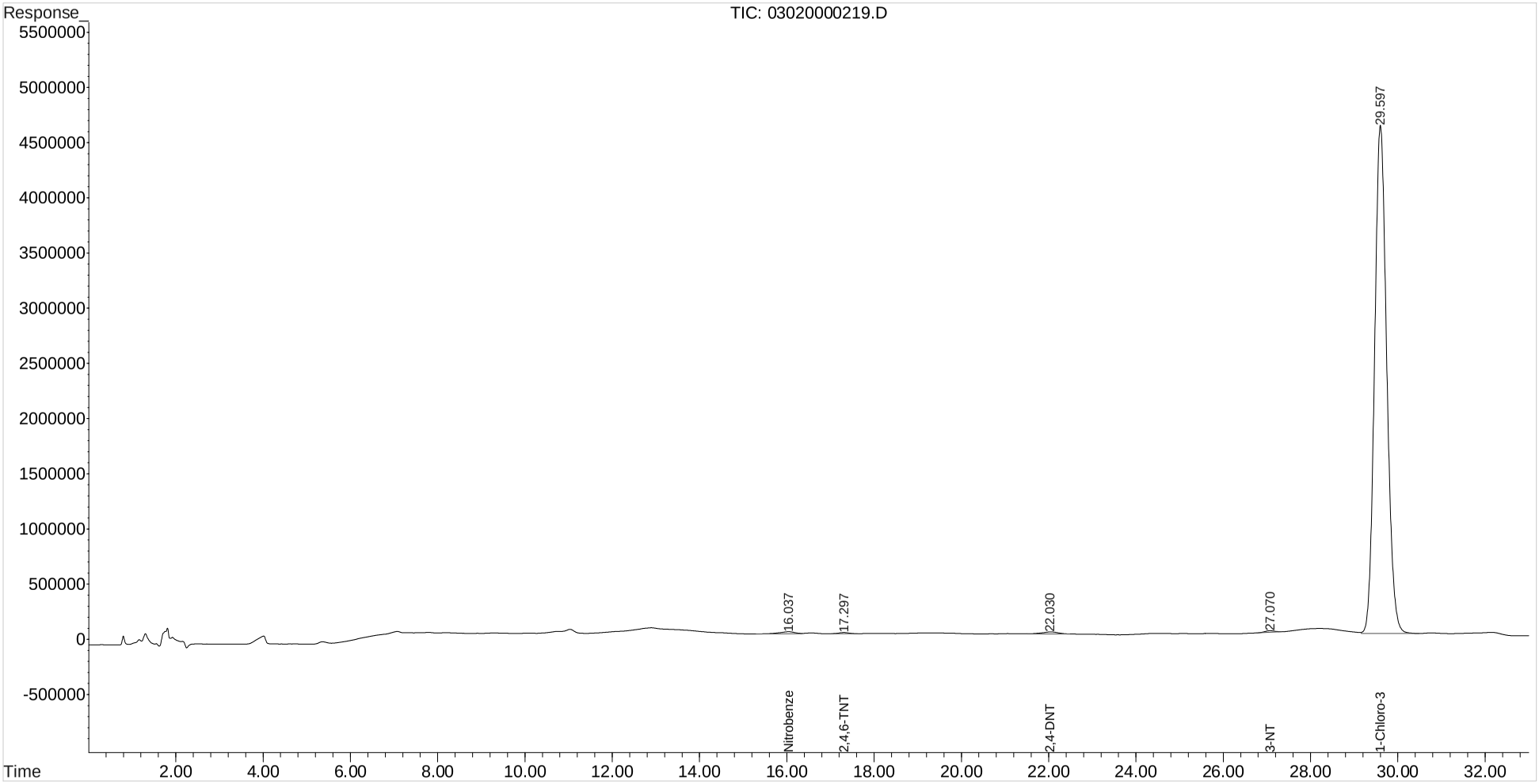
11/01/2018

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000219.D Vial: 17
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 22:52:11 Operator: BR
Sample : K1701351-009 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 14:44:24 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



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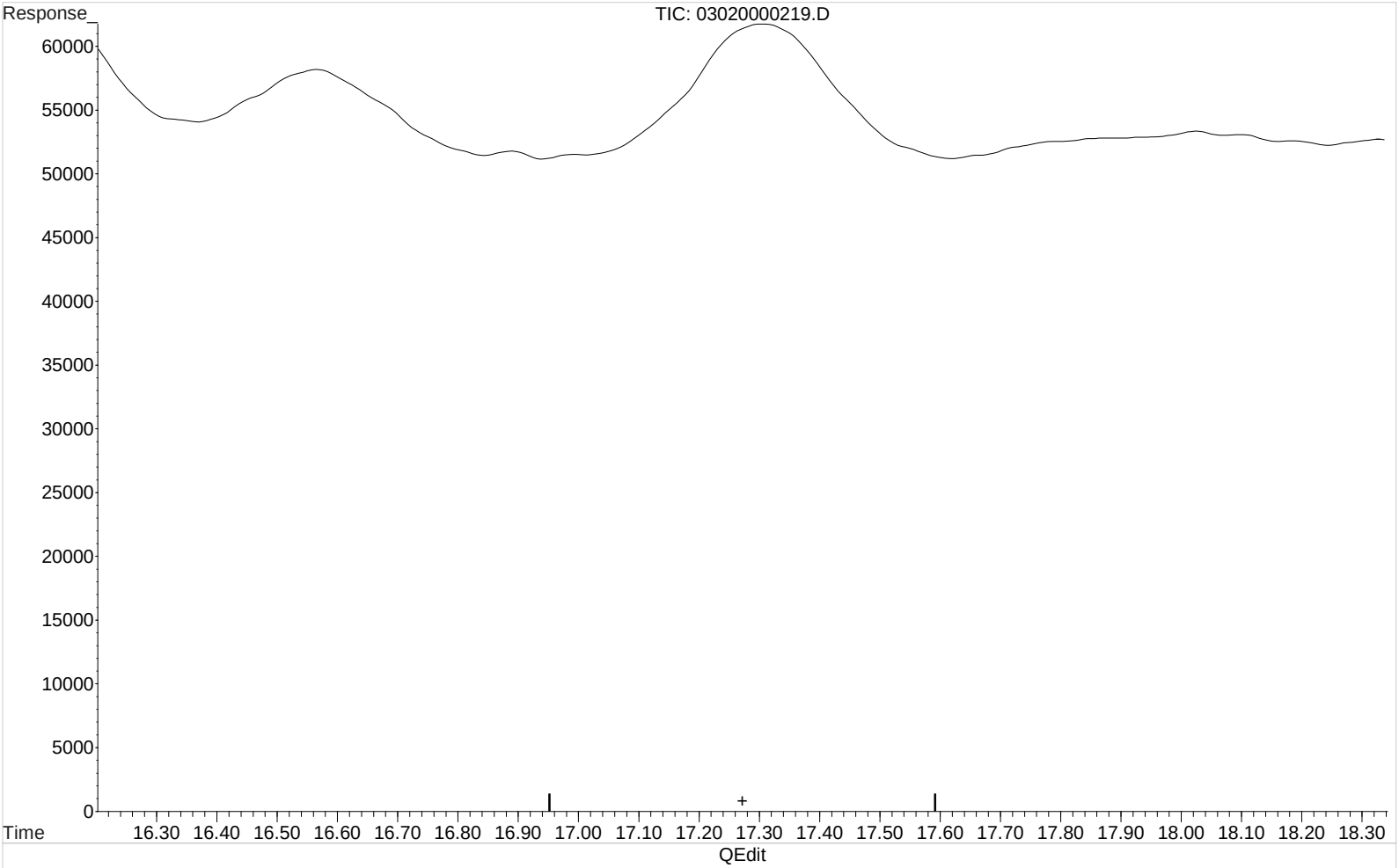
012091

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000219.D Vial: 17
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 22:52:11 Operator: BR
Sample : K1701351-009 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:57 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(10) 2,4,6-TNT (T)

17.272min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

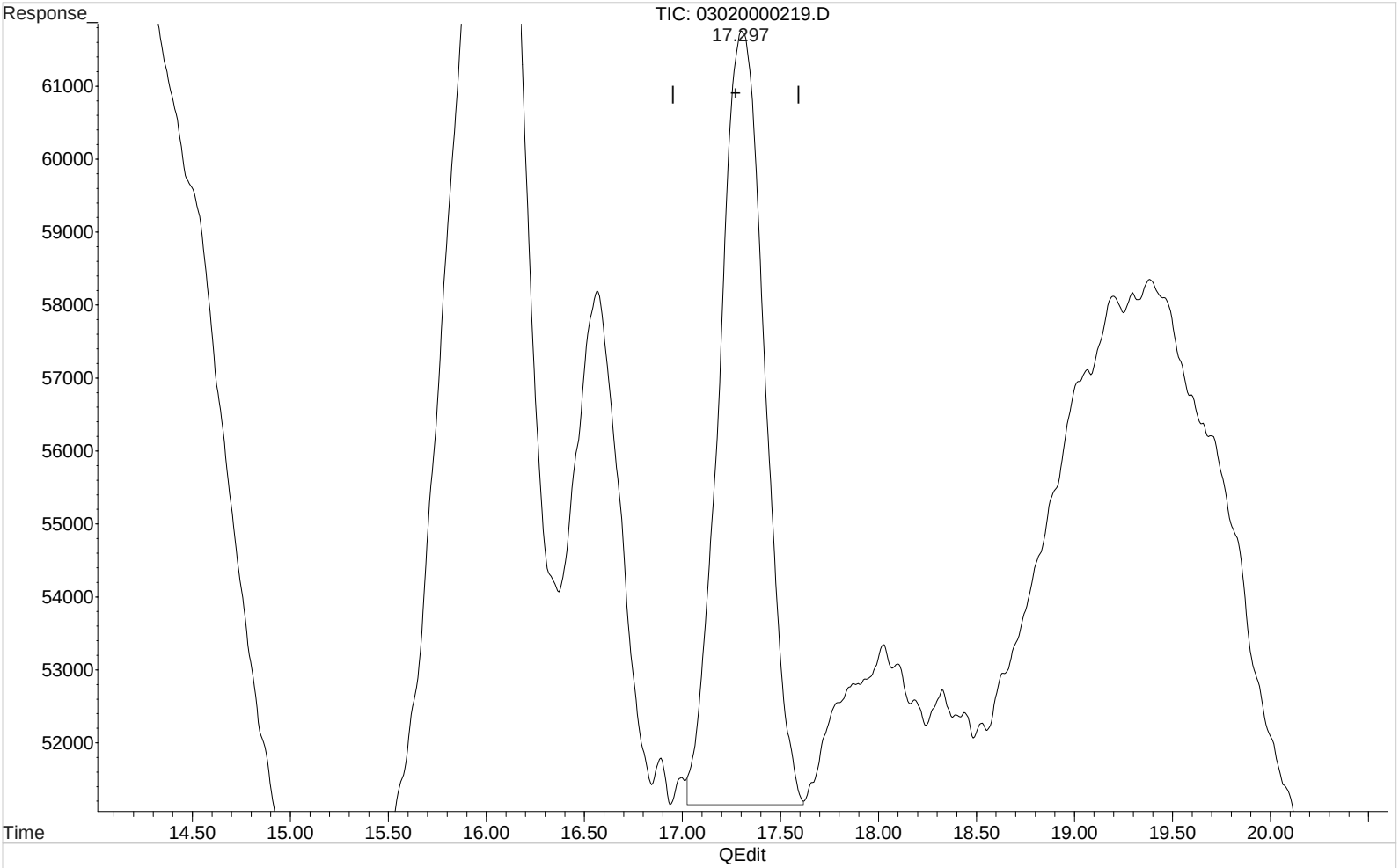
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000219.D Vial: 17
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 22:52:11 Operator: BR
Sample : K1701351-009 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:57 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(10) 2,4,6-TNT (T)

17.297min 4.136 ug/L m

response 172290

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

(b) (6)

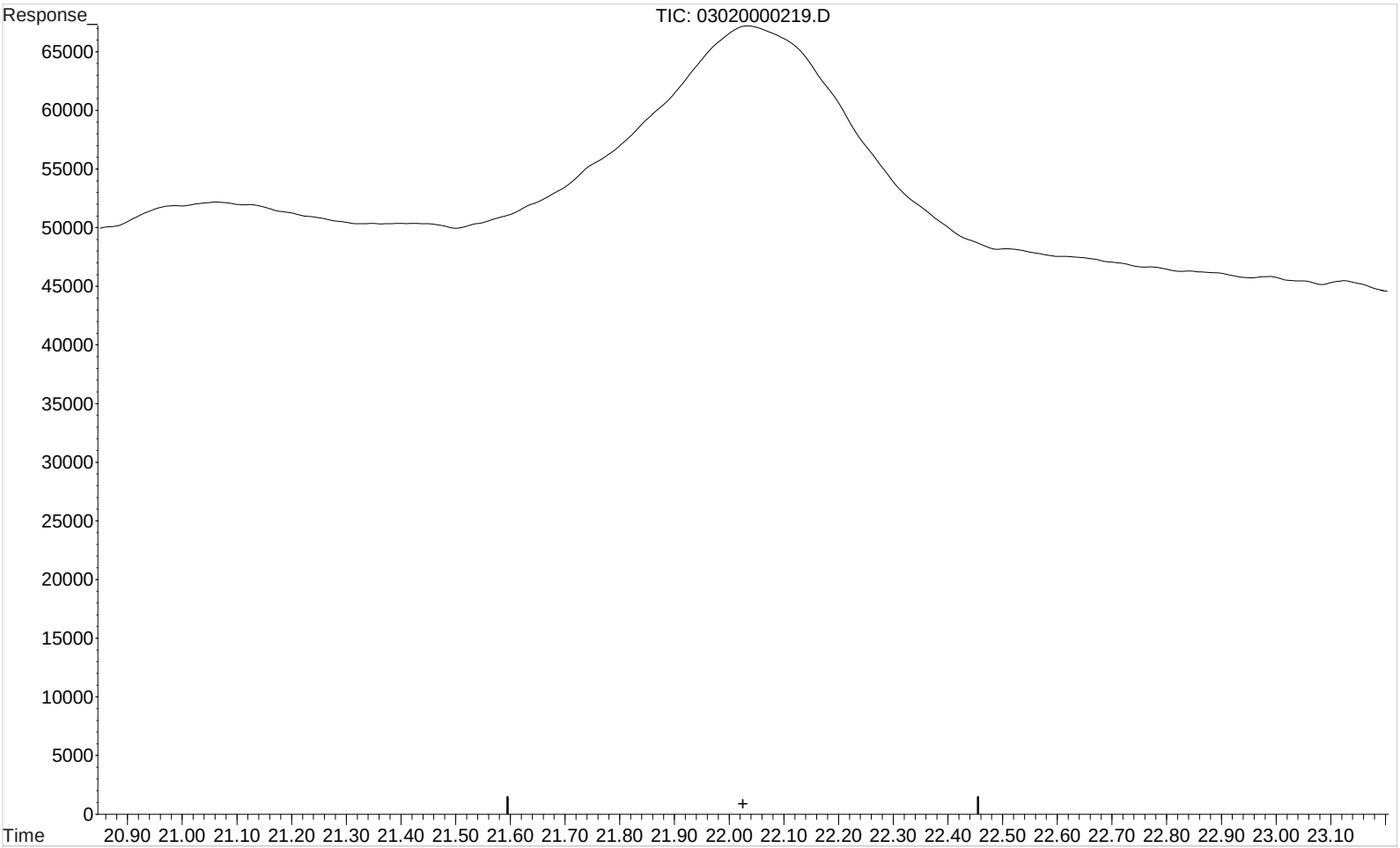
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000219.D Vial: 17
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 22:52:11 Operator: BR
Sample : K1701351-009 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:57 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.025min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

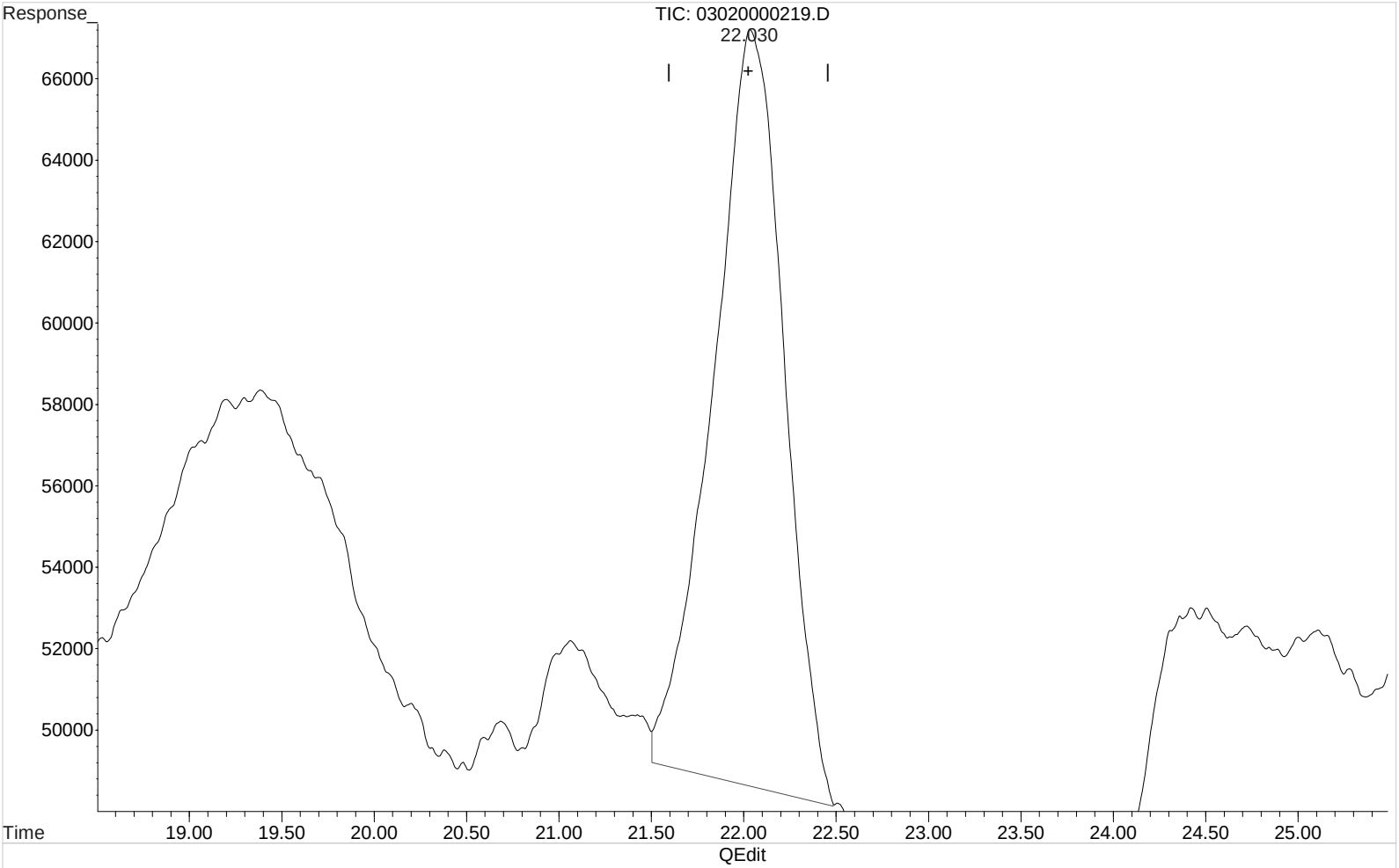
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000219.D Vial: 17
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 22:52:11 Operator: BR
Sample : K1701351-009 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:57 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.030min 8.415 ug/L m

response 498461

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

(b) (6)

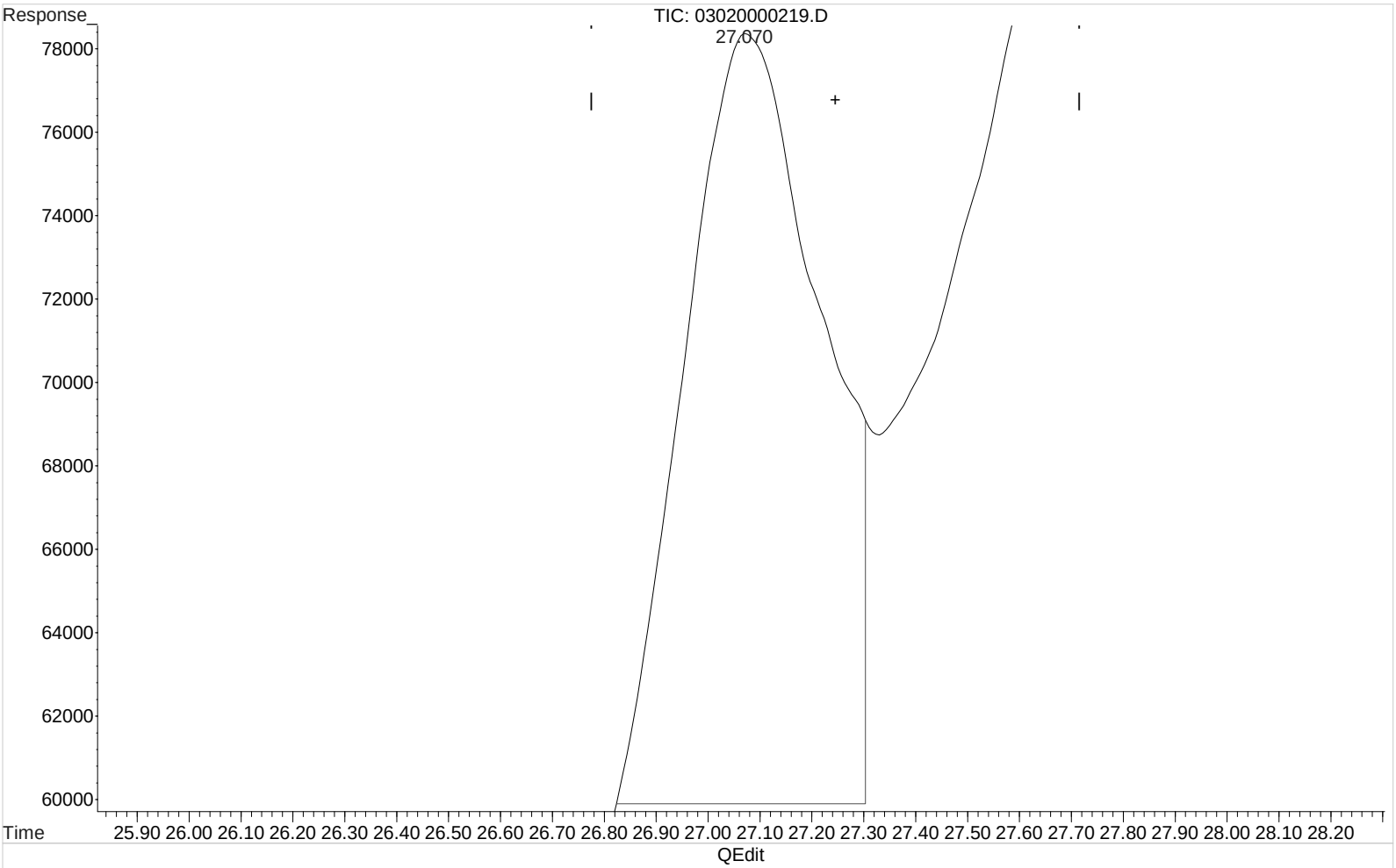
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000219.D Vial: 17
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 22:52:11 Operator: BR
Sample : K1701351-009 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:57 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(17) 3-NT (T)

27.070min 16.808 ug/L

response 338446

Manual Integration:

Before

03/08/17

(+) = Expected Retention Time

(b) (6)

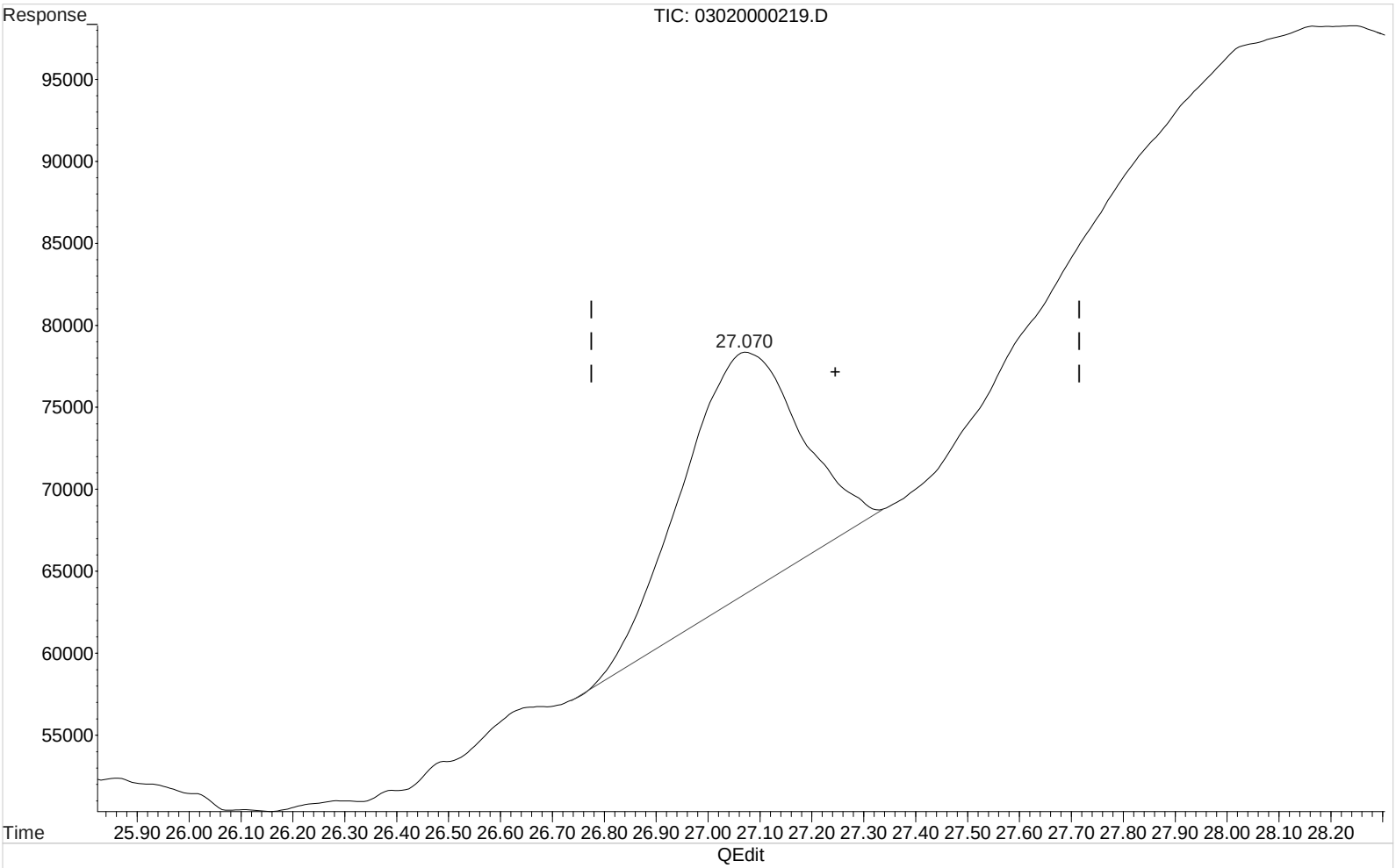
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000219.D Vial: 17
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 22:52:11 Operator: BR
Sample : K1701351-009 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:57 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.070min 11.854 ug/L m

response 238688

Manual Integration:

After

BLC

03/08/17

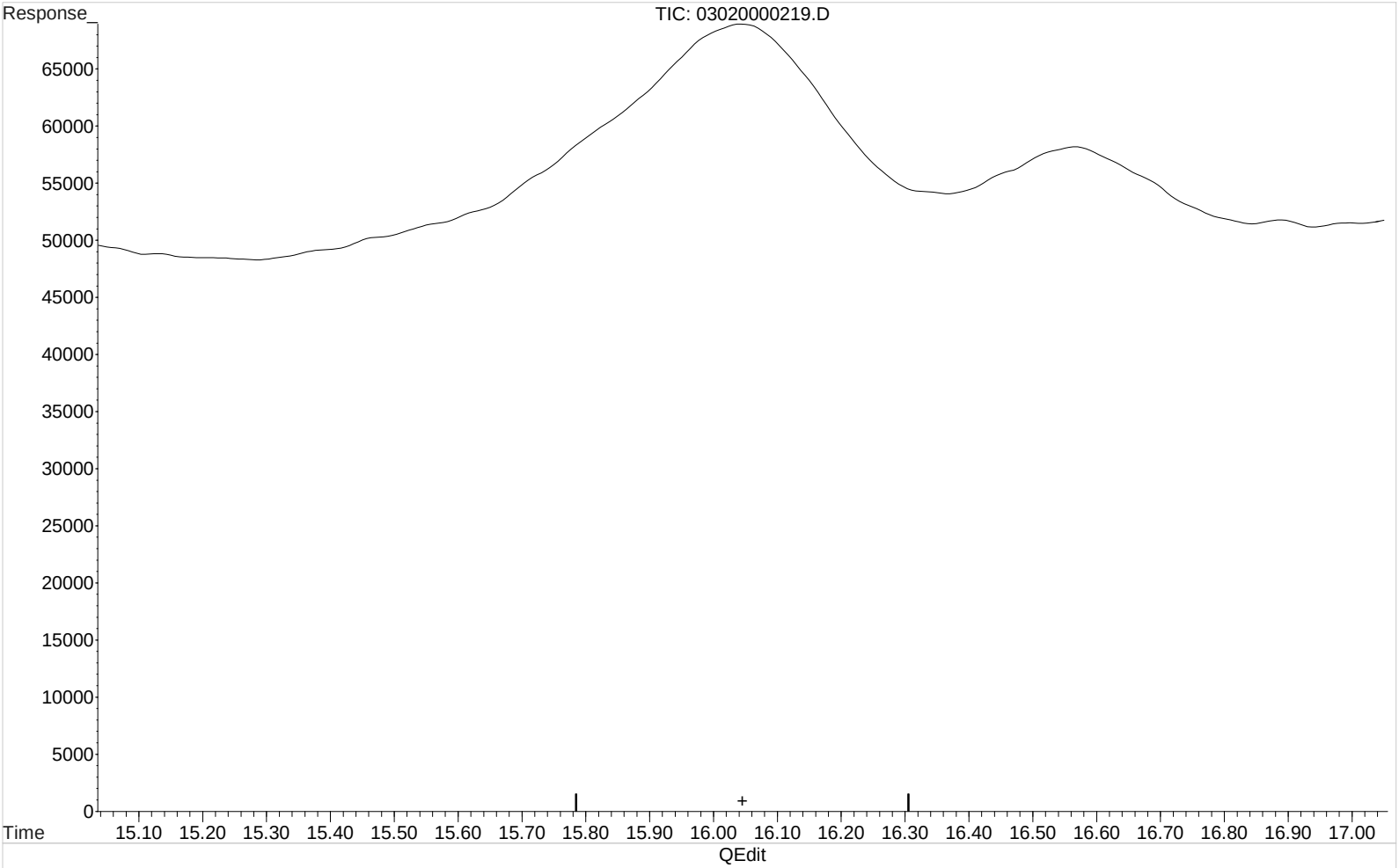
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000219.D Vial: 17
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 22:52:11 Operator: BR
Sample : K1701351-009 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:57 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(9) Nitrobenzene (T)

16.045min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

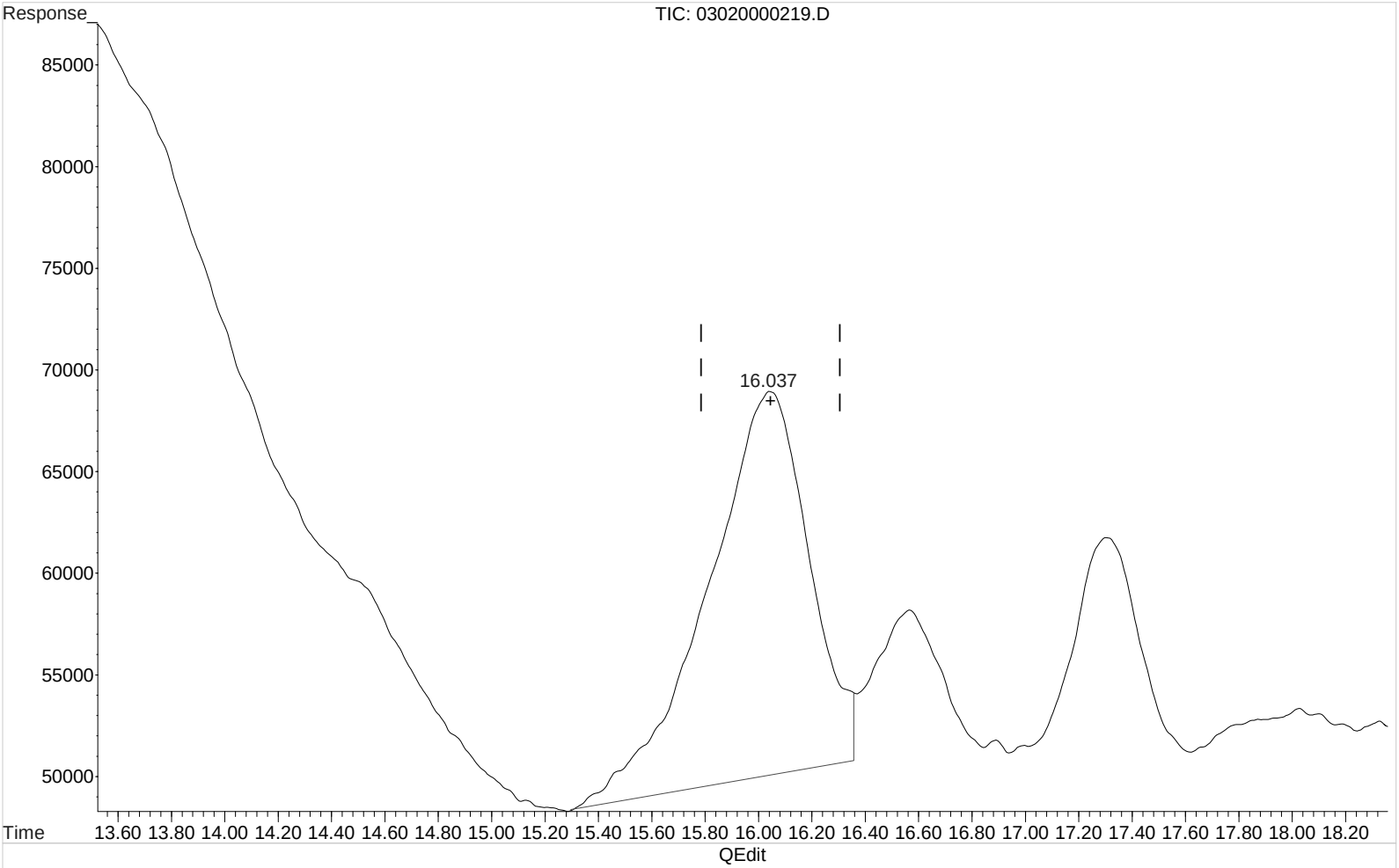
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000219.D Vial: 17
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 22:52:11 Operator: BR
Sample : K1701351-009 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:57 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(9) Nitrobenzene (T)

16.037min 12.906 ug/L m

response 498368

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000219.
Lab ID: K1701351-009
RunType: SMPL
Matrix: SOIL

Date Acquired: 03/02/2017 22:52
Date Quantitated: 03/08/2017 13:49
Batch ID: KWG1701860
Analysis Method: 8330B
ListJoinID: LJ15912

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000219.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 22:52	**Quant Date:**	03/08/2017 13:49	**Vial:**	17
Run Type:	SMPL	**ListJoinID:**	LJ14468	**Dilution:**	1.0
Lab ID:	K1701351-009			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/07/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587771	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ14468
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_210\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.60	0.00	235373360	4,139	83	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.50	0.02	243471**m**	11.68	0.058	U	
Pentaerythritol Tetranitrate	27.55	-0.06	144386**m**	8.21	0.11	U	

Prep Amount:	10.159 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99.1 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000219.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 22:52	**Quant Date:**	03/08/2017 13:49	**Vial:**	17
Run Type:	SMPL	**ListJoinID:**	LJ15912	**Dilution:**	1.0
Lab ID:	K1701351-009			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/07/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587771	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ15912
		Method ID:	MJ1432
MB Ref:	J:\LC10\DATA\030317_8330_210\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.60	0.00	235373360	4,139	83	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.50	0.02	243471**m**	11.68	0.058	U	
Pentaerythritol Tetranitrate	27.55	-0.06	144386**m**	8.21	0.11	U	

Prep Amount:	10.159 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99.1 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000219.D Vial: 17
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 22:52:11 Operator: BR
Sample : K1701351-009 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 13:49:18 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.597	235373360	4139.390	ug/L	
Target Compounds						
1) T	Nitroglycerin	16.497	243471	11.679	ug/L	m
2) T	PETN	27.550	144386	8.206	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)

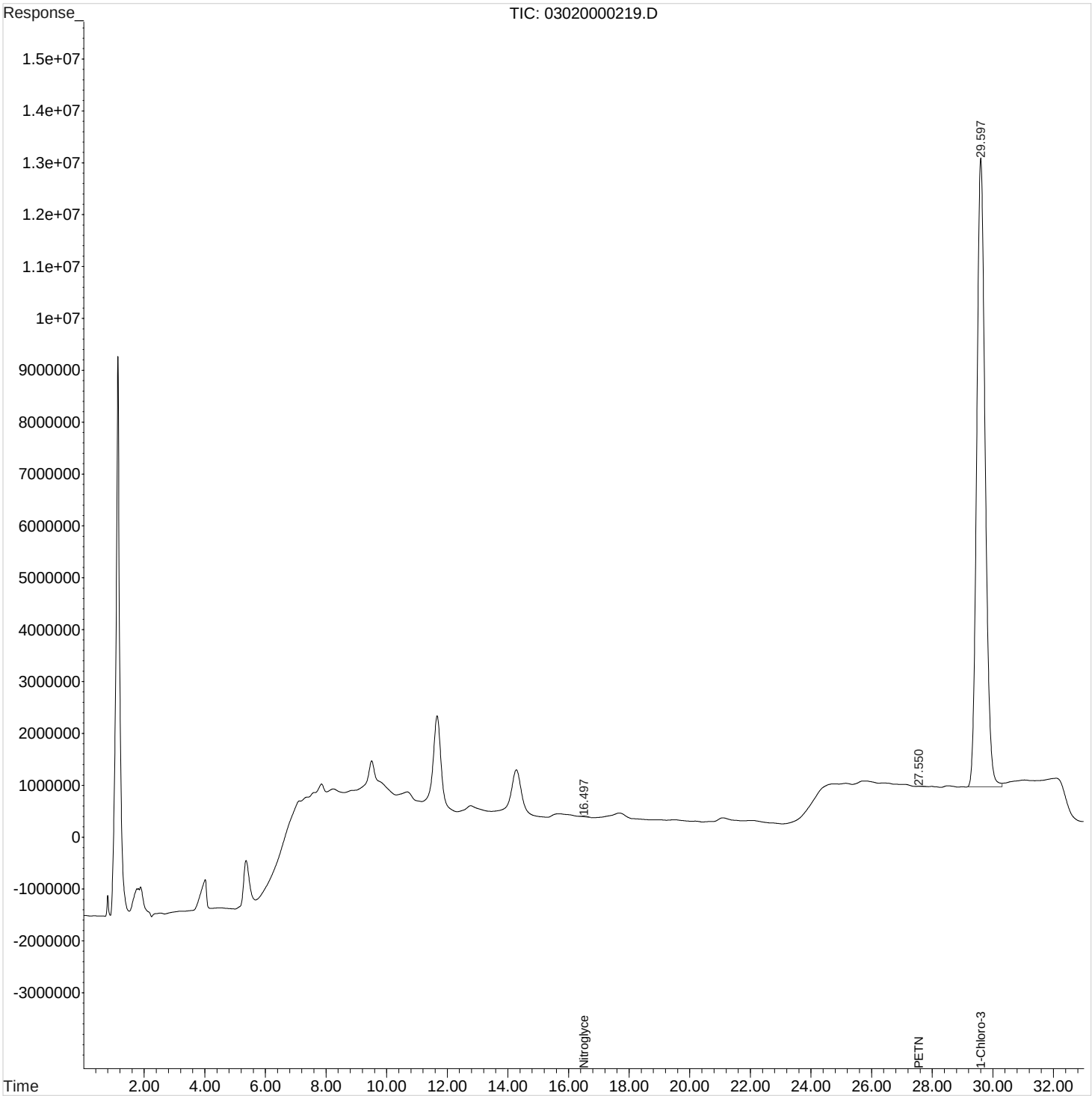
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_210\03020000219.D Vial: 17
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 22:52:11 Operator: BR
Sample : K1701351-009 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 13:49:18 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(b) (6)

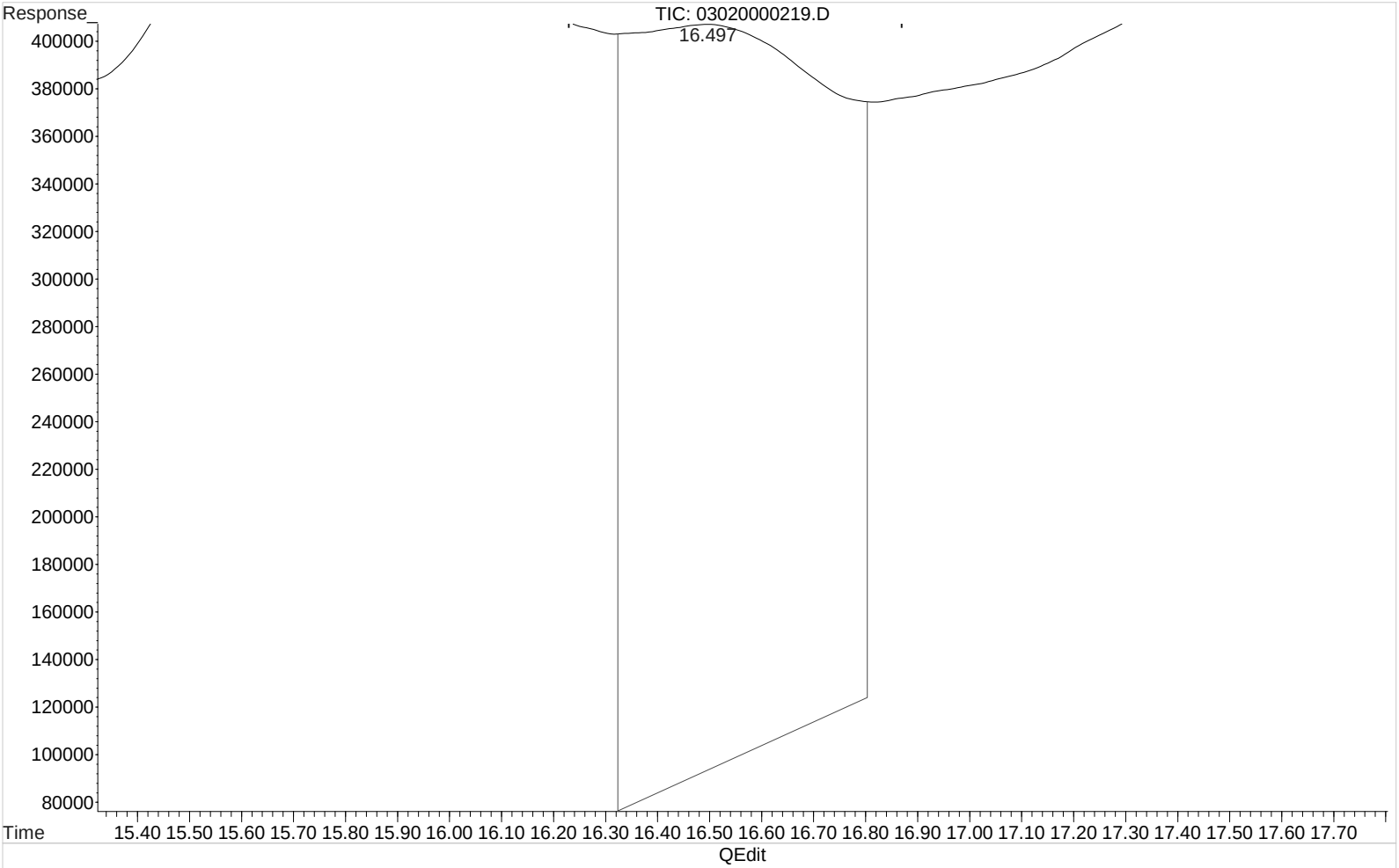
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_210\03020000219.D Vial: 17
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 22:52:11 Operator: BR
Sample : K1701351-009 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:00:12 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.497min 409.123 ug/L

response 8528852

Manual Integration:

Before

03/08/17

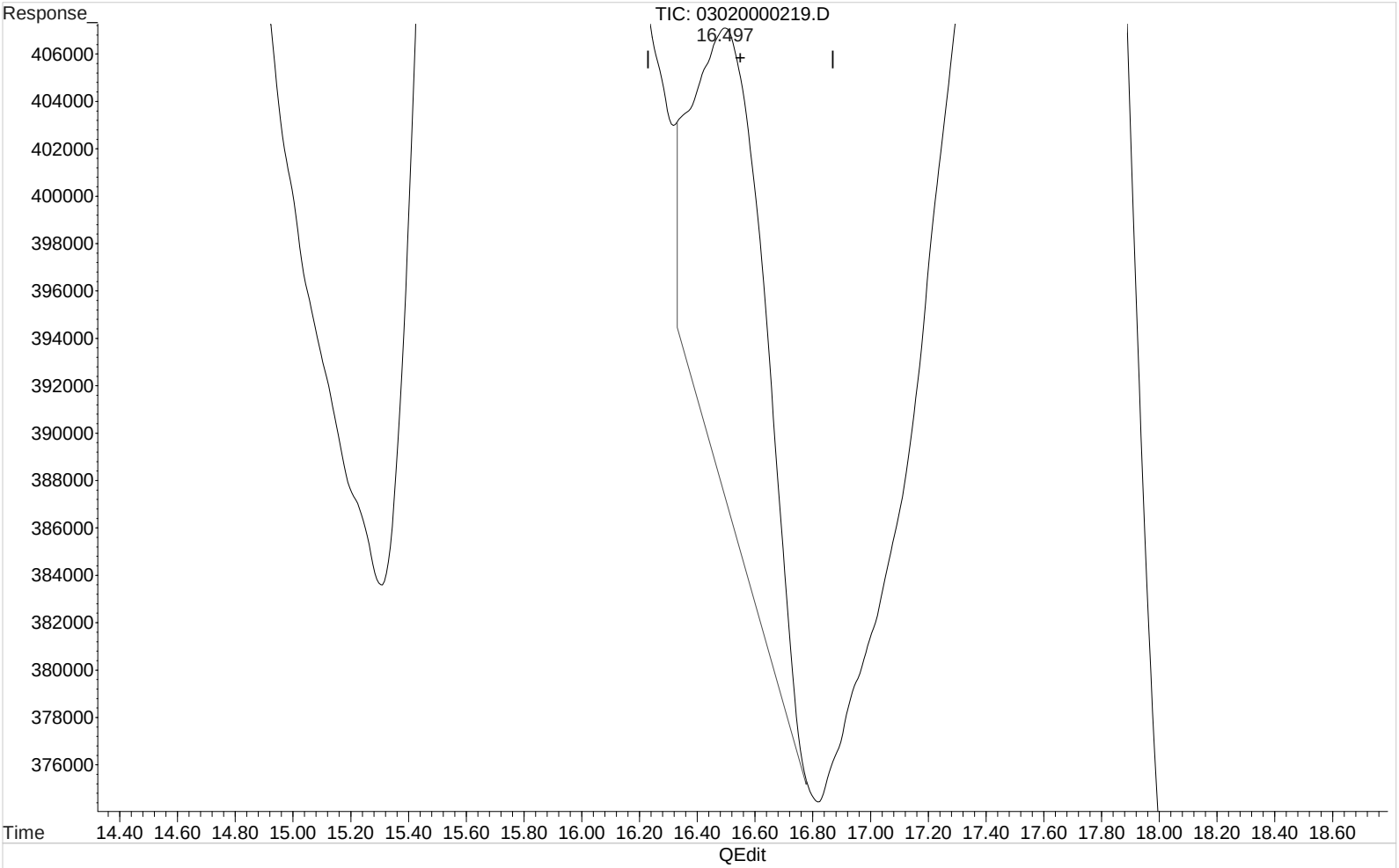
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000219.D Vial: 17
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 22:52:11 Operator: BR
Sample : K1701351-009 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:00:12 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.497min 16.359 ug/L m

response 341030

Manual Integration:

After

BLC

03/08/17

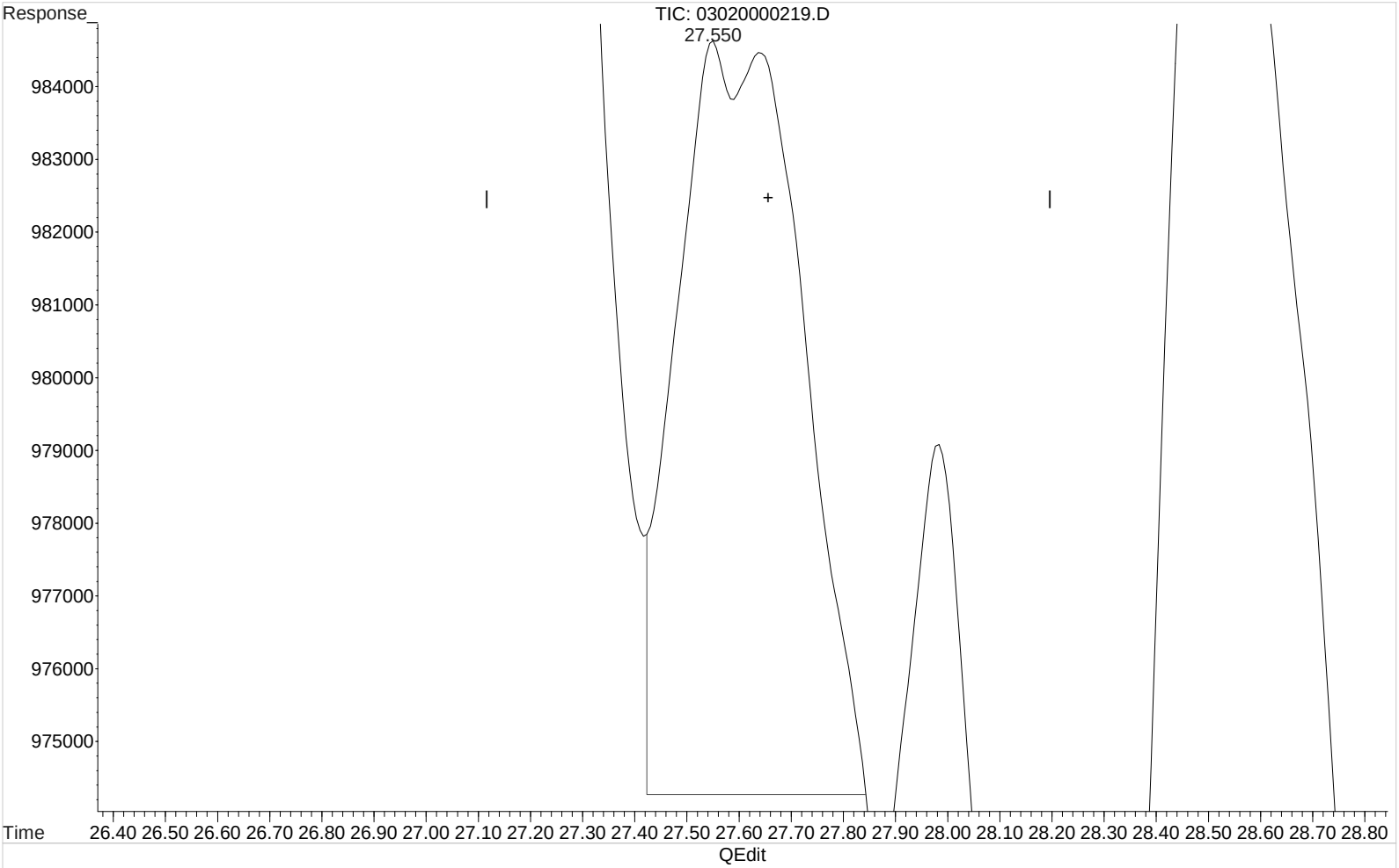
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000219.D Vial: 17
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 22:52:11 Operator: BR
Sample : K1701351-009 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:00:12 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.550min 9.761 ug/L

response 171744

Manual Integration:

Before

03/08/17

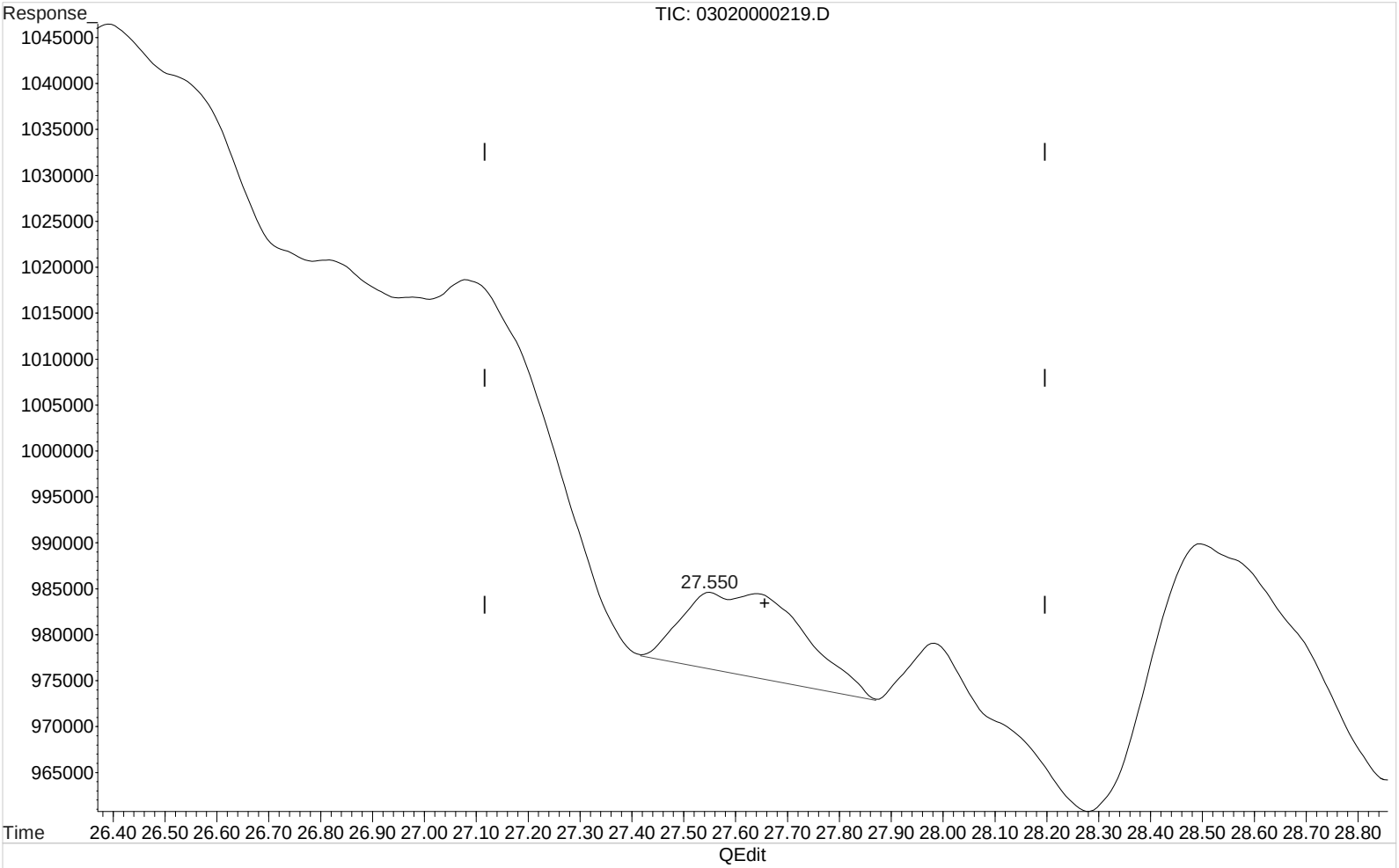
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000219.D Vial: 17
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 22:52:11 Operator: BR
Sample : K1701351-009 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:00:12 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.550min 8.206 ug/L m

response 144386

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000220.
Lab ID: K1701351-010
RunType: SMPL
Matrix: SOIL

Date Acquired: 03/02/2017 23:28
Date Quantitated: 03/08/2017 14:48
Batch ID: KWG1701858
Analysis Method: 8330B
ListJoinID: LJ15912

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000220.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 23:28	**Quant Date:**	03/08/2017 14:48	**Vial:**	18
Run Type:	SMPL	**ListJoinID:**	LJ14468	**Dilution:**	1.0
Lab ID:	K1701351-010			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/07/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701858	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587772	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ14468
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_254\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.64	0.04	92489421	4,280	86	34-135	OK	

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0		0.0065	U	
RDX			0		0.050	U	
1,3,5-Trinitrobenzene			0**d**		0.028	U	
1,3-Dinitrobenzene			0**d**		0.013	U	
TETRYL			0		0.042	U	
Nitrobenzene	16.15	0.07	61431**m**	1.59	0.0045	U	
2,4,6-Trinitrotoluene	17.32	0.03	21247**m**	0.5100	0.019	U	
4-Amino-2,6-dinitrotoluene			0**d**		0.0052	U	
2-Amino-4,6-dinitrotoluene			0		0.0076	U	
2,6-Dinitrotoluene			0		0.0052	U	
2,4-Dinitrotoluene	21.88	-0.18	250493**m**	4.23	0.042	U	
2-Nitrotoluene	25.15	-0.08	20620**m**	1.15	0.0072	U	
4-Nitrotoluene			0		0.019	U	
3-Nitrotoluene	27.11	-0.17	230294**m**	11.44	0.019	U	

Prep Amount:	10.017 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99.1 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000220.D Vial: 18
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 23:28:26 Operator: BR
Sample : K1701351-010 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 14:48:00 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
18) S	1-Chloro-3-Nitrobenzene	29.640	92489421	4280.099	ug/L	
	Target Compounds					
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2) T	HMX	0.000	0	N.D.	ug/L	
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4) T	RDX	0.000	0	N.D.	ug/L	
5) T	1,3,5-TNB	0.000	0	N.D.	ug/L	d
6) T	1,3-DNB	0.000	0	N.D.	ug/L	d
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L	
8) T	Tetryl	0.000	0	N.D.	ug/L	
9) T	Nitrobenzene	16.146	61431	1.591	ug/L	m
10) T	2,4,6-TNT	17.320	21247	0.510	ug/L	m
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L	d
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L	
13) T	2,6-DNT	0.000	0	N.D.	ug/L	
14) T	2,4-DNT	21.880	250493	4.229	ug/L	m
15) T	2-NT	25.146	20620	1.148	ug/L	m
16) T	4-NT	0.000	0	N.D.	ug/L	
17) T	3-NT	27.113	230294	11.437	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] (g) (g) 03/14/17 03/29/17

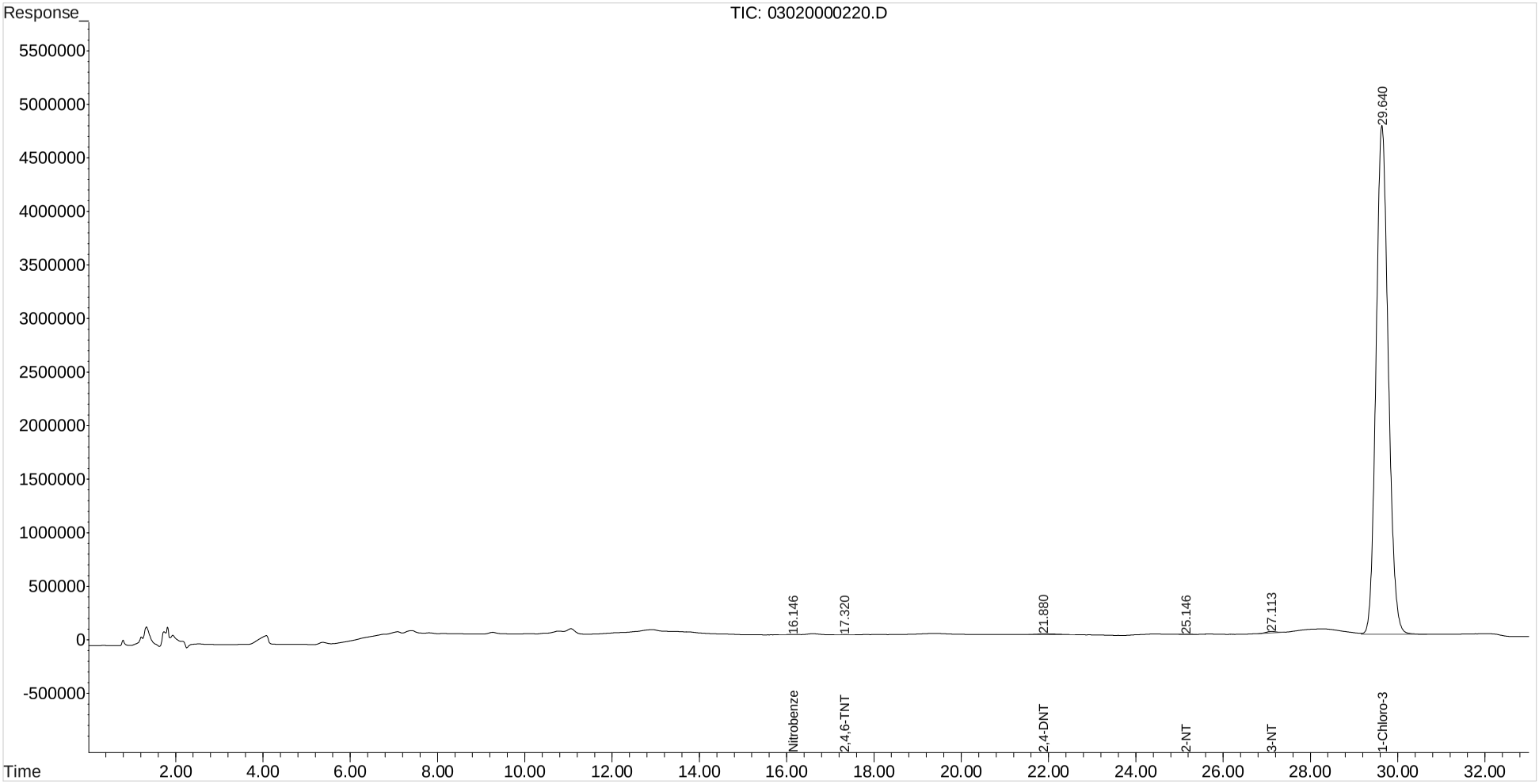
11/01/2018

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000220.D Vial: 18
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 23:28:26 Operator: BR
Sample : K1701351-010 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 14:48:00 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



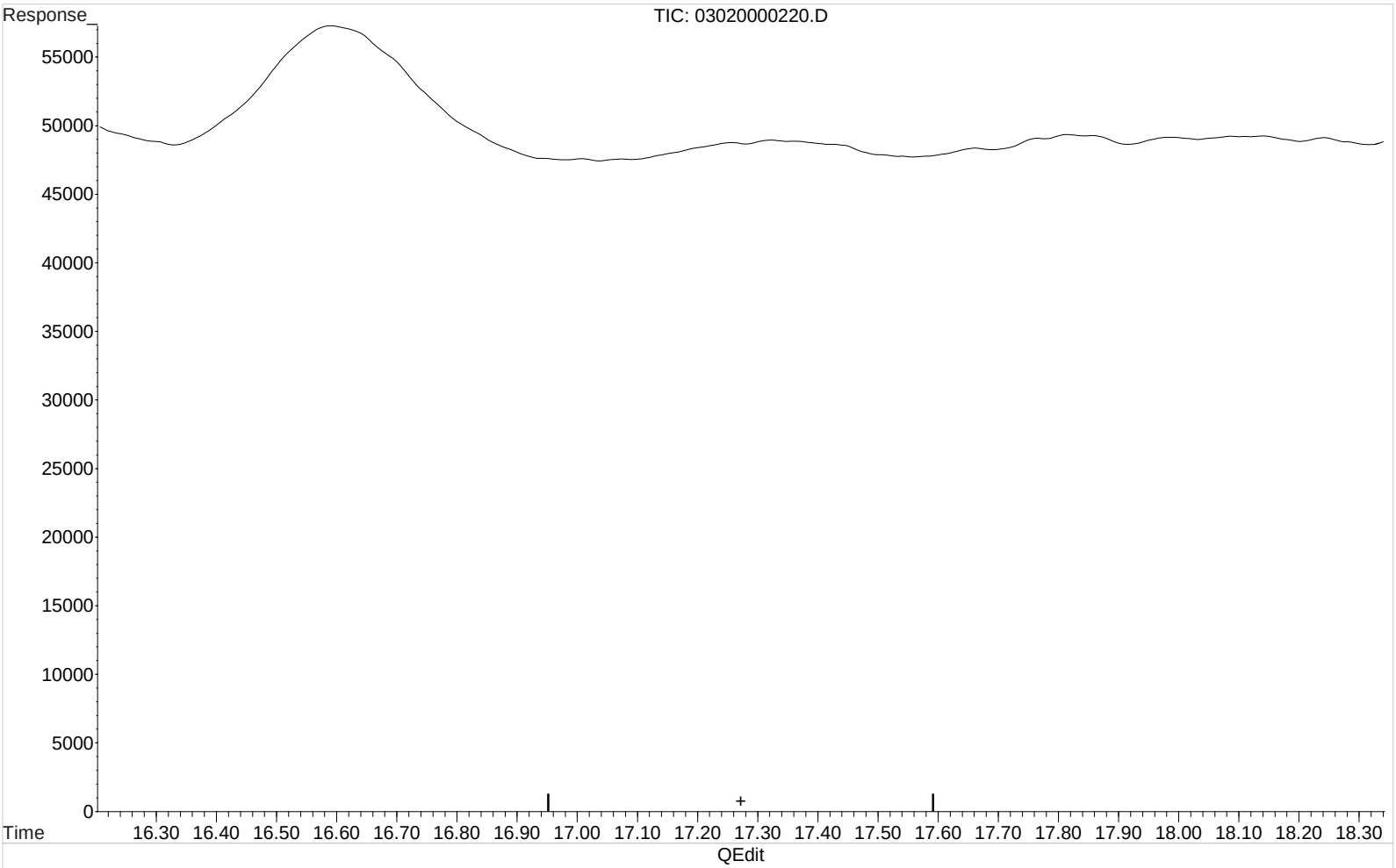
012112

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000220.D Vial: 18
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 23:28:26 Operator: BR
Sample : K1701351-010 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 14:44:51 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(10) 2,4,6-TNT (T)

17.272min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

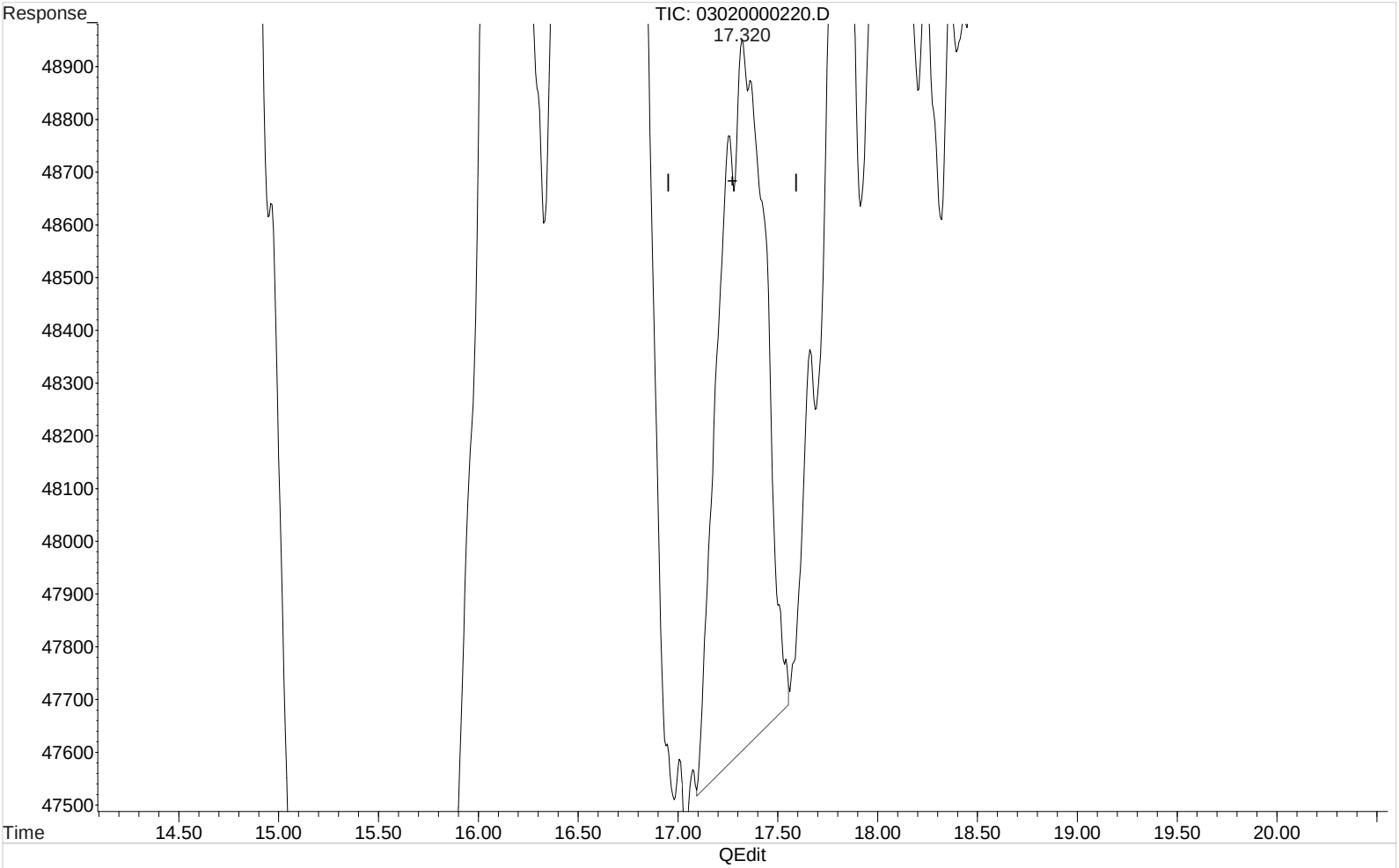
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000220.D Vial: 18
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 23:28:26 Operator: BR
Sample : K1701351-010 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 14:44:51 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(10) 2,4,6-TNT (T)

17.320min 0.510 ug/L m

response 21247

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

(b) (6)

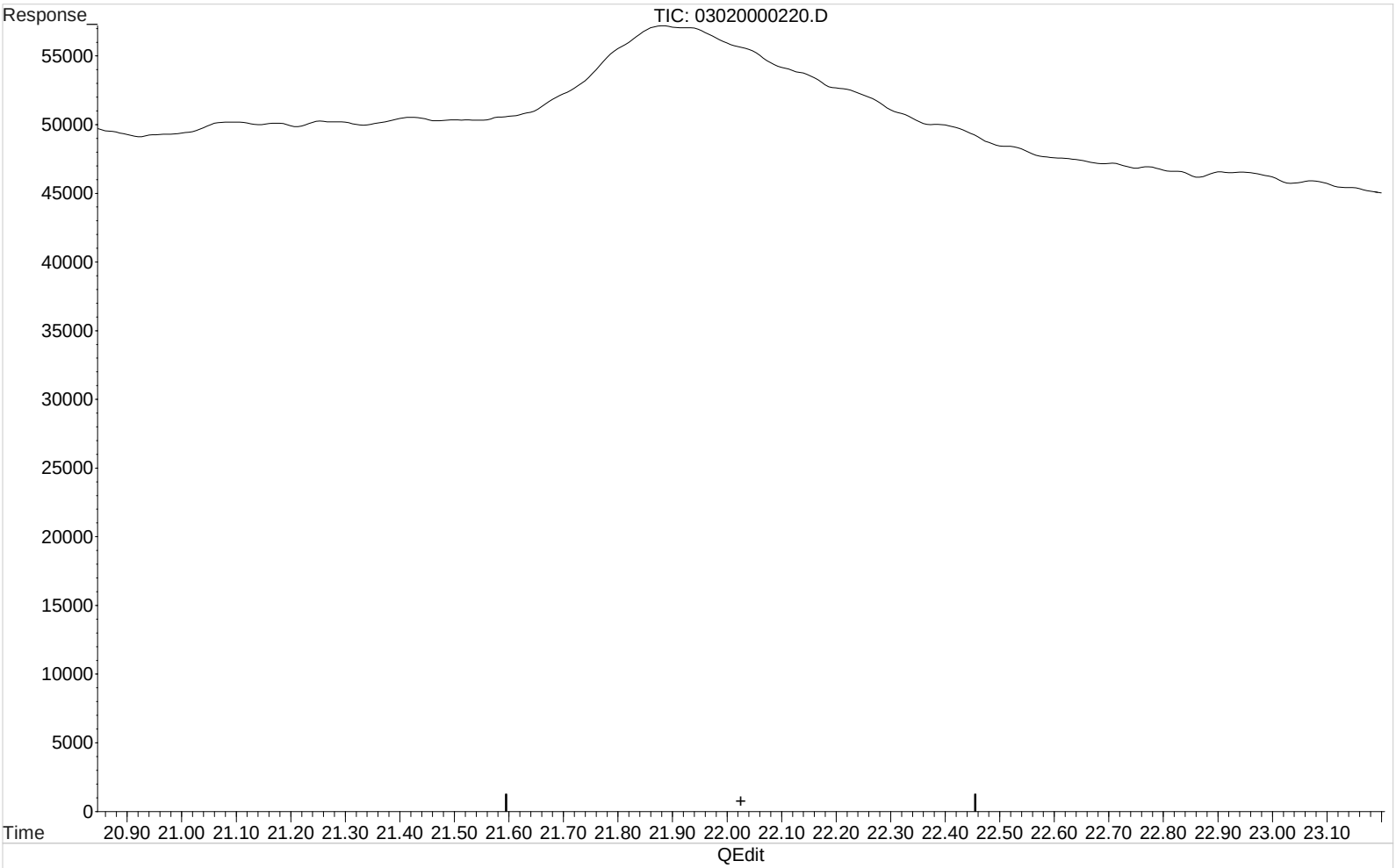
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000220.D Vial: 18
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 23:28:26 Operator: BR
Sample : K1701351-010 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 14:44:51 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.025min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

(+) = Expected Retention Time

(b) (6)

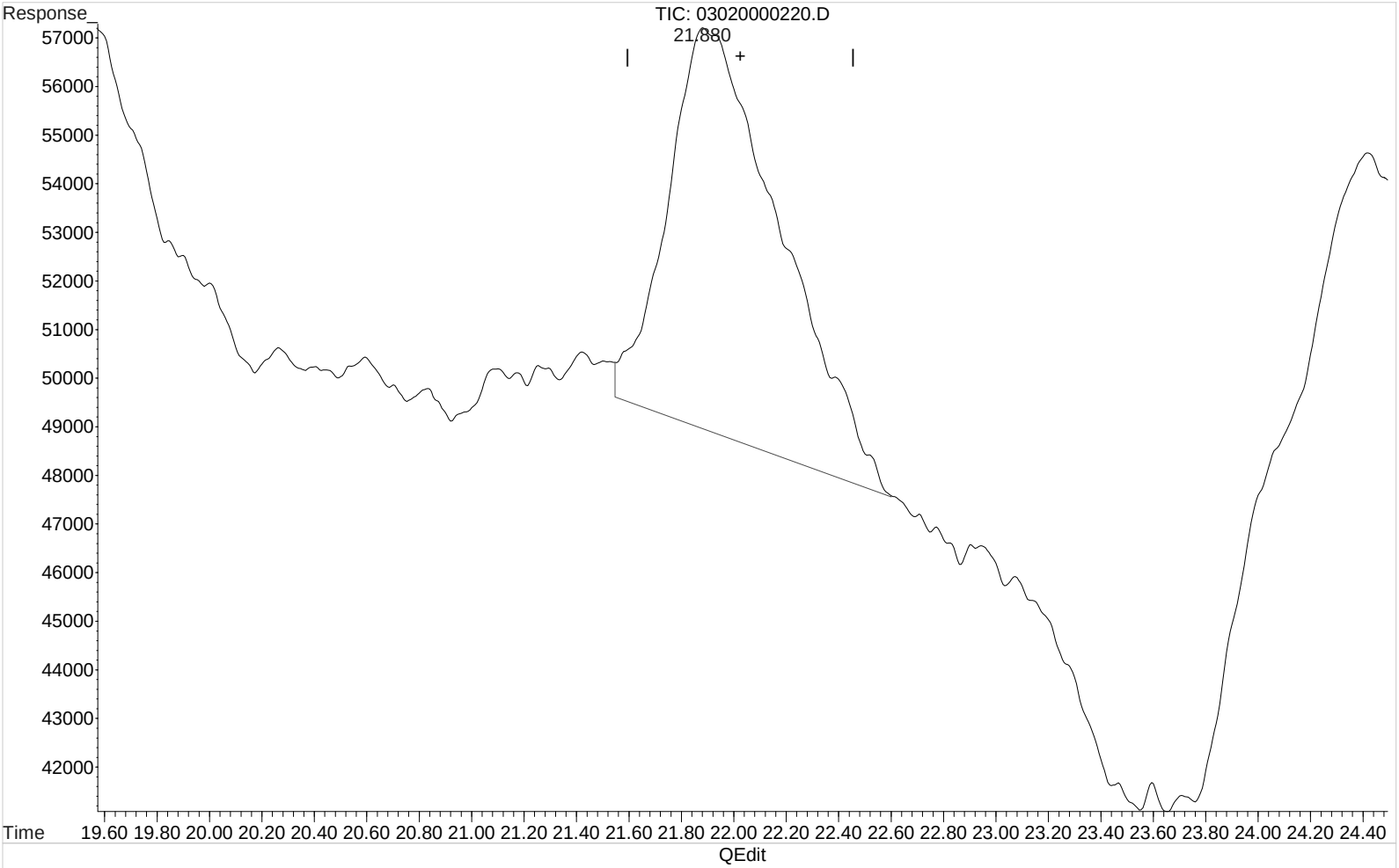
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000220.D Vial: 18
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 23:28:26 Operator: BR
Sample : K1701351-010 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 14:44:51 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

21.880min 4.229 ug/L m

response 250493

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

(b) (6)

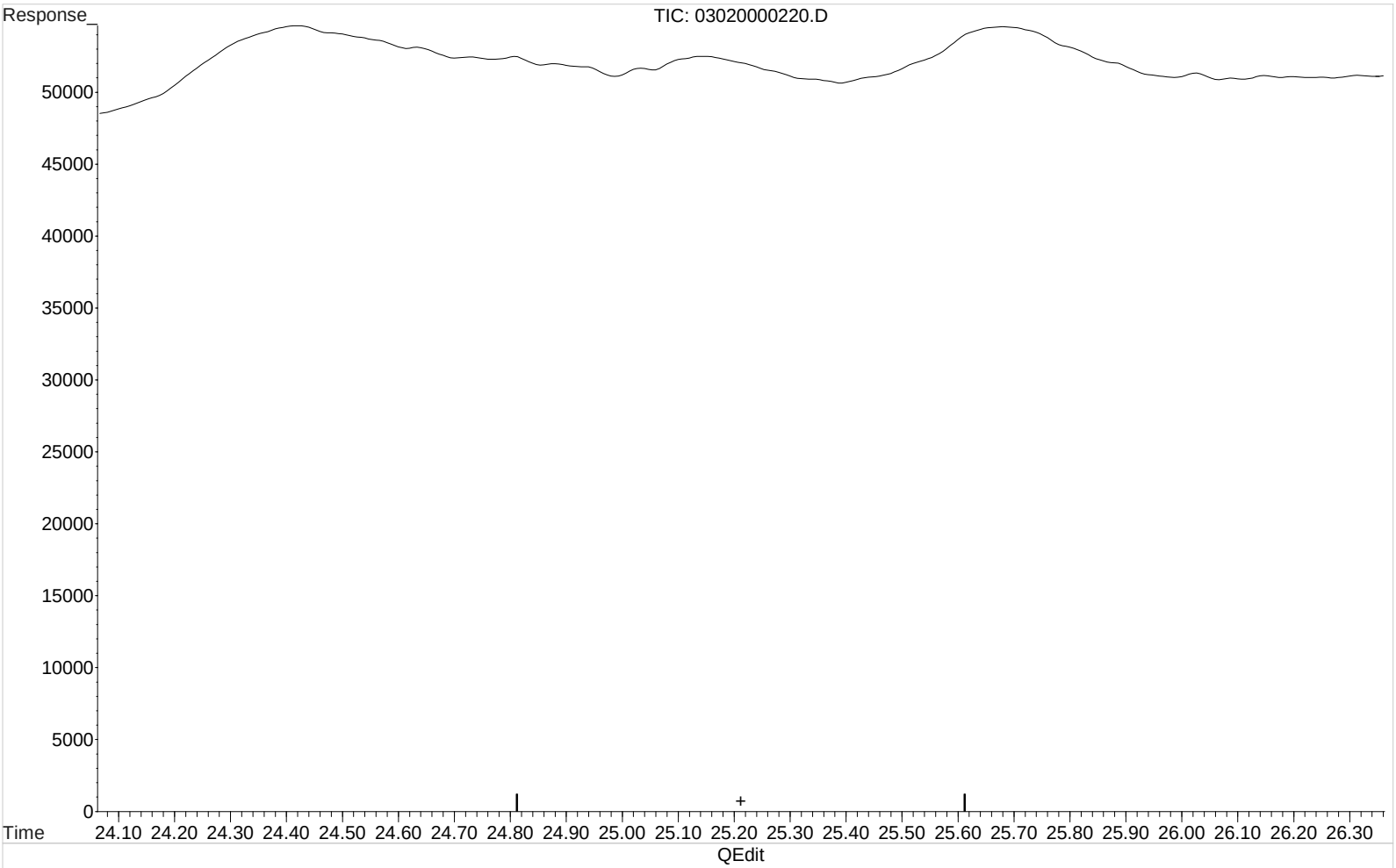
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000220.D Vial: 18
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 23:28:26 Operator: BR
Sample : K1701351-010 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 14:44:51 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.212min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

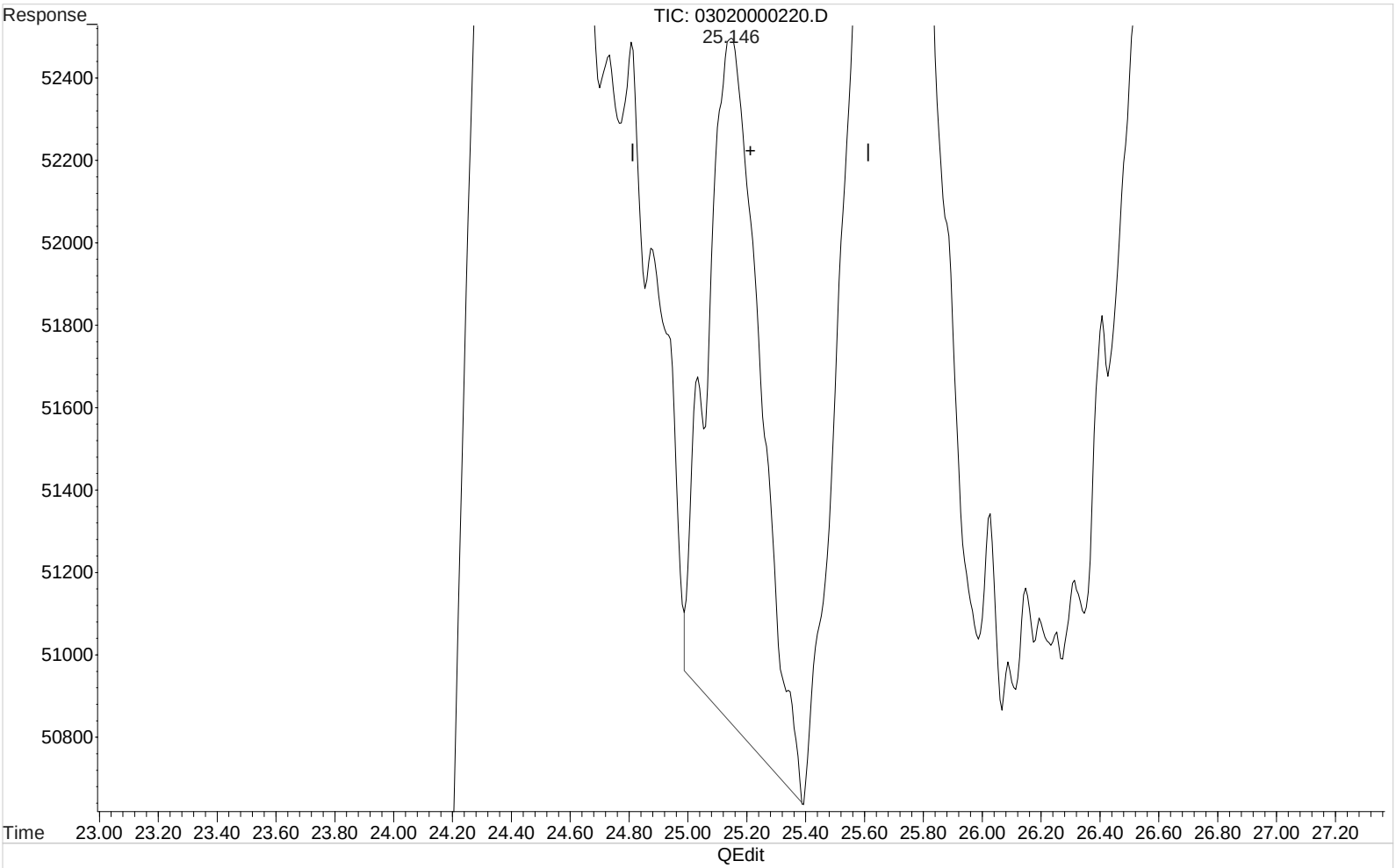
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000220.D Vial: 18
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 23:28:26 Operator: BR
Sample : K1701351-010 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 14:44:51 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(15) 2-NT (T)

25.146min 1.148 ug/L m

response 20620

Manual Integration:

After

BLC

03/08/17

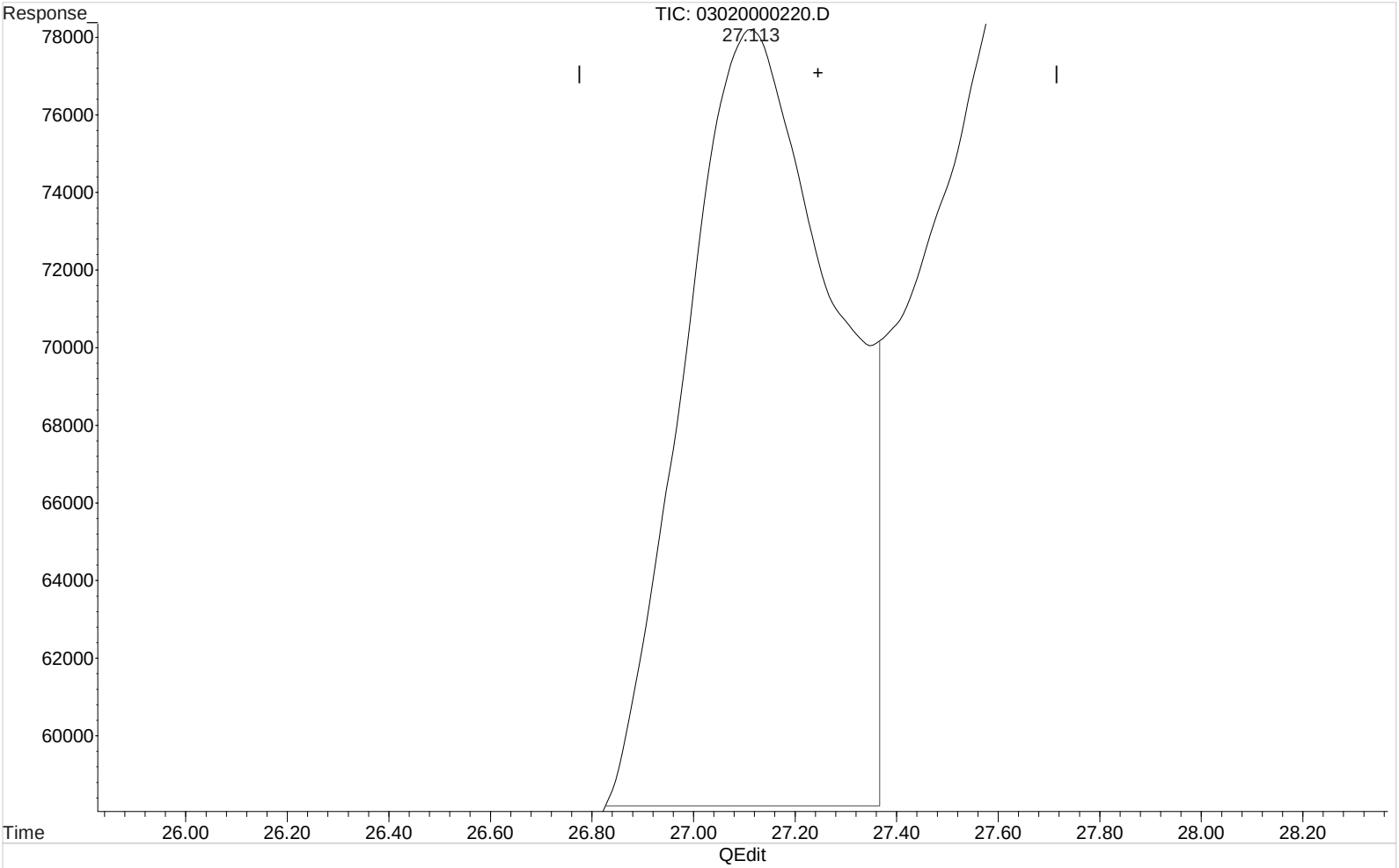
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000220.D Vial: 18
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 23:28:26 Operator: BR
Sample : K1701351-010 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 14:44:51 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.113min 20.425 ug/L

response 411277

Manual Integration:

Before

03/08/17

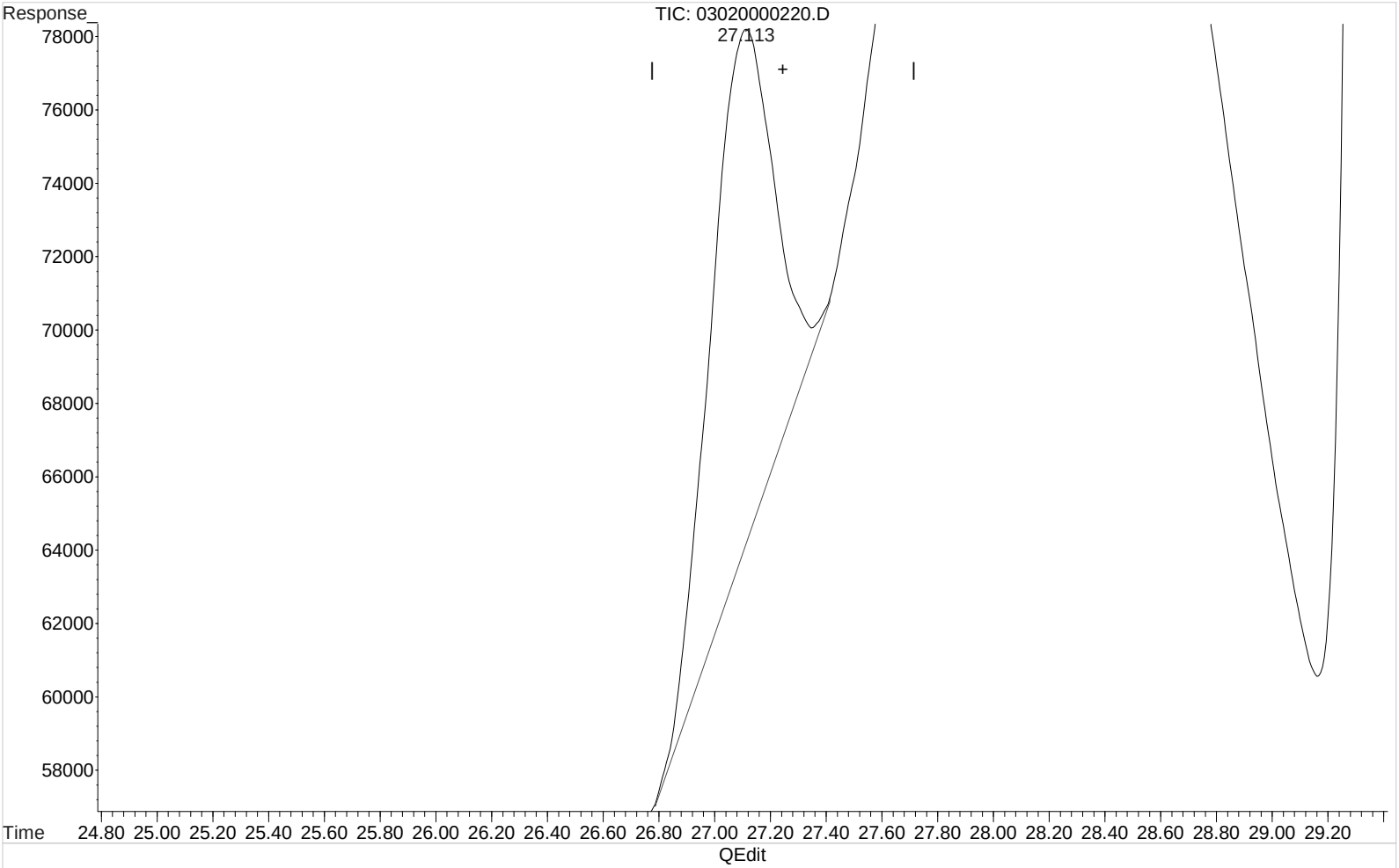
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000220.D Vial: 18
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 23:28:26 Operator: BR
Sample : K1701351-010 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 14:44:51 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.113min 11.437 ug/L m

response 230294

Manual Integration:

After

BLC

03/08/17

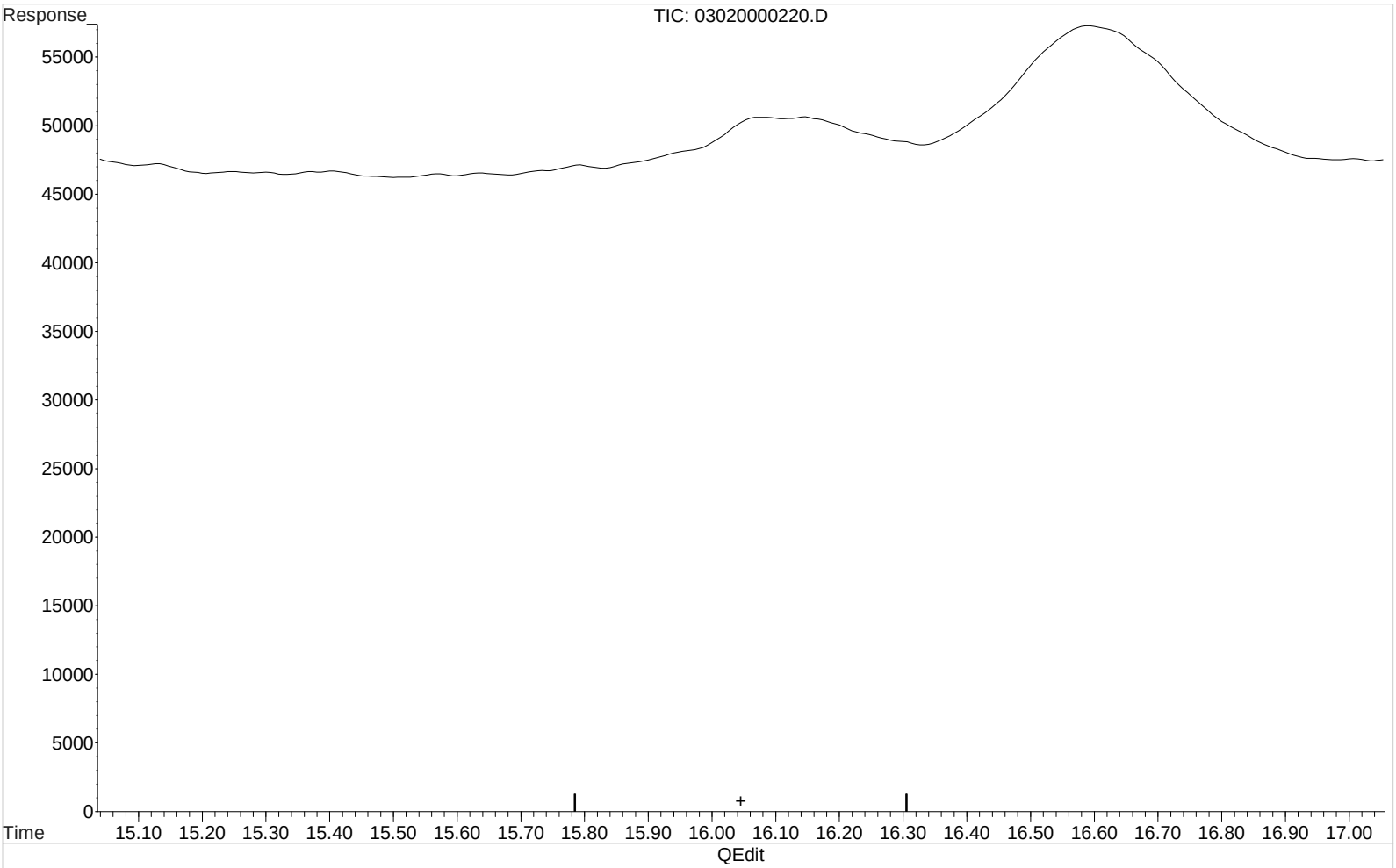
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000220.D Vial: 18
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 23:28:26 Operator: BR
Sample : K1701351-010 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 14:44:51 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(9) Nitrobenzene (T)

16.045min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

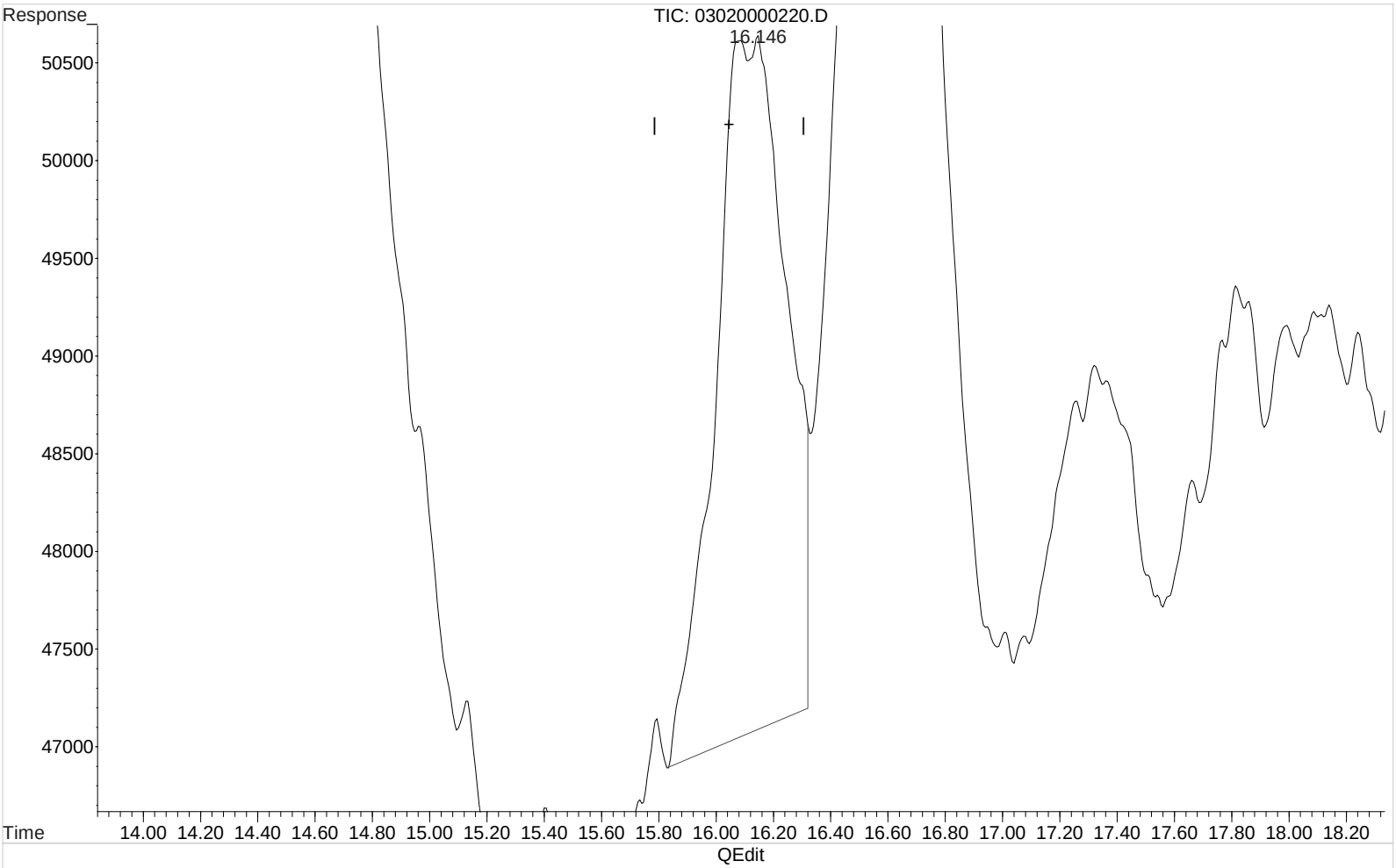
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000220.D Vial: 18
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 23:28:26 Operator: BR
Sample : K1701351-010 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 14:44:51 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.146min 1.591 ug/L m

response 61431

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000220.
Lab ID: K1701351-010
RunType: SMPL
Matrix: SOIL

Date Acquired: 03/02/2017 23:28
Date Quantitated: 03/09/2017 16:22
Batch ID: KWG1701860
Analysis Method: 8330B
ListJoinID: LJ15912

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000220.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 23:28	**Quant Date:**	03/09/2017 16:22	**Vial:**	18
Run Type:	SMPL	**ListJoinID:**	LJ14468	**Dilution:**	1.0
Lab ID:	K1701351-010			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/07/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587772	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ14468
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_210\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.64	0.04	244440720	4,299	86	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.56	0.08	718174**m**	34.45	0.059	U	
Pentaerythritol Tetranitrate			0**d**		0.12	U	

Prep Amount:	10.017 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99.1 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000220.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 23:28	**Quant Date:**	03/09/2017 16:22	**Vial:**	18
Run Type:	SMPL	**ListJoinID:**	LJ15912	**Dilution:**	1.0
Lab ID:	K1701351-010			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/07/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587772	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ15912
		Method ID:	MJ1432
MB Ref:	J:\LC10\DATA\030317_8330_210\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.64	0.04	244440720	4,299	86	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.56	0.08	718174**m**	34.45	0.059	U	
Pentaerythritol Tetranitrate			0**d**		0.12	U	

Prep Amount:	10.017 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99.1 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000220.D Vial: 18
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 23:28:26 Operator: BR
Sample : K1701351-010 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 09 16:22:10 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.640	244440720	4298.853	ug/L	
Target Compounds						
1) T	Nitroglycerin	16.560	718174	34.450	ug/L	m
2) T	PETN	0.000	0	N.D.	ug/L	d

(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)

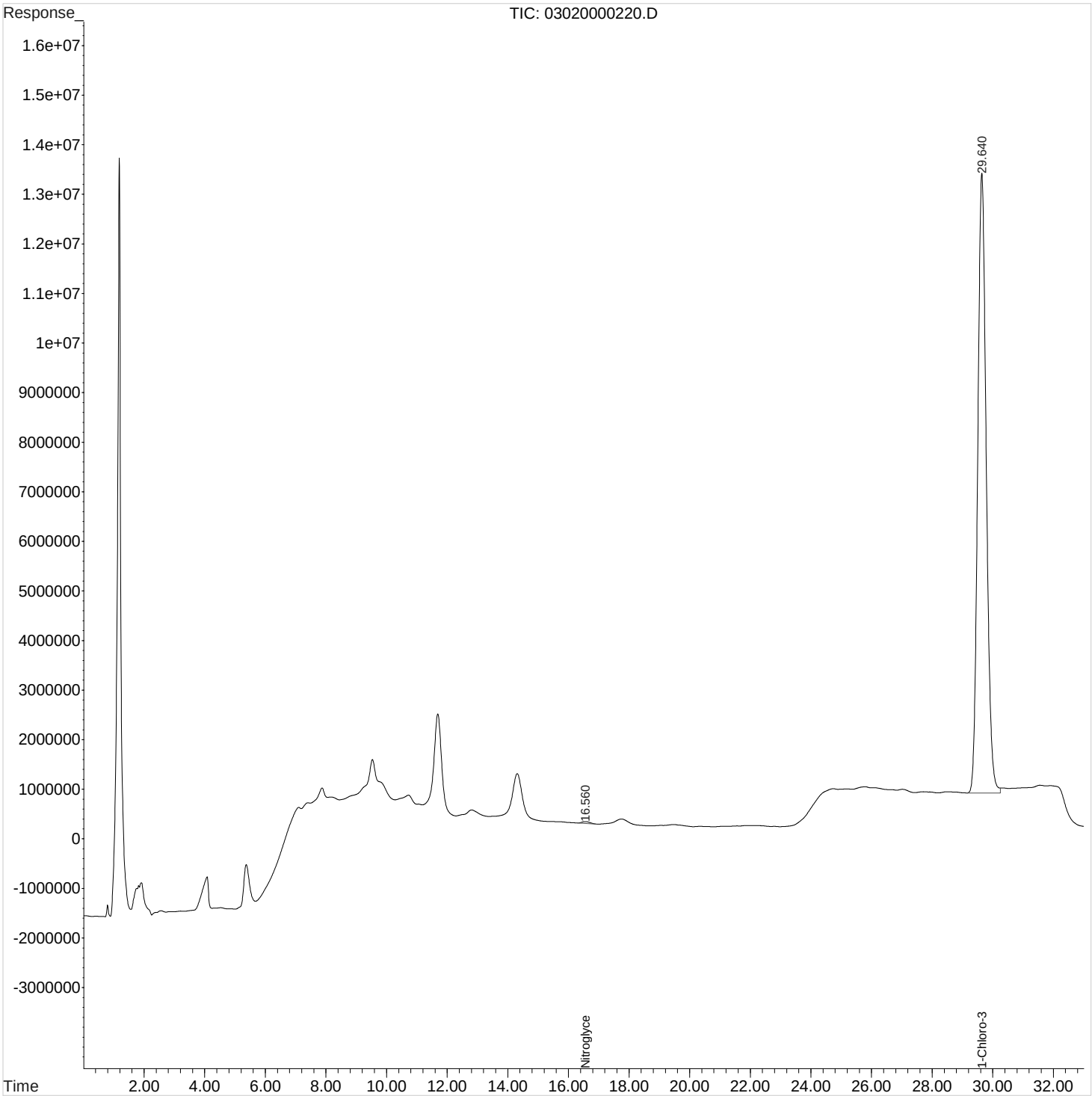
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_210\03020000220.D Vial: 18
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 23:28:26 Operator: BR
Sample : K1701351-010 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 09 16:22:10 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(b) (6)

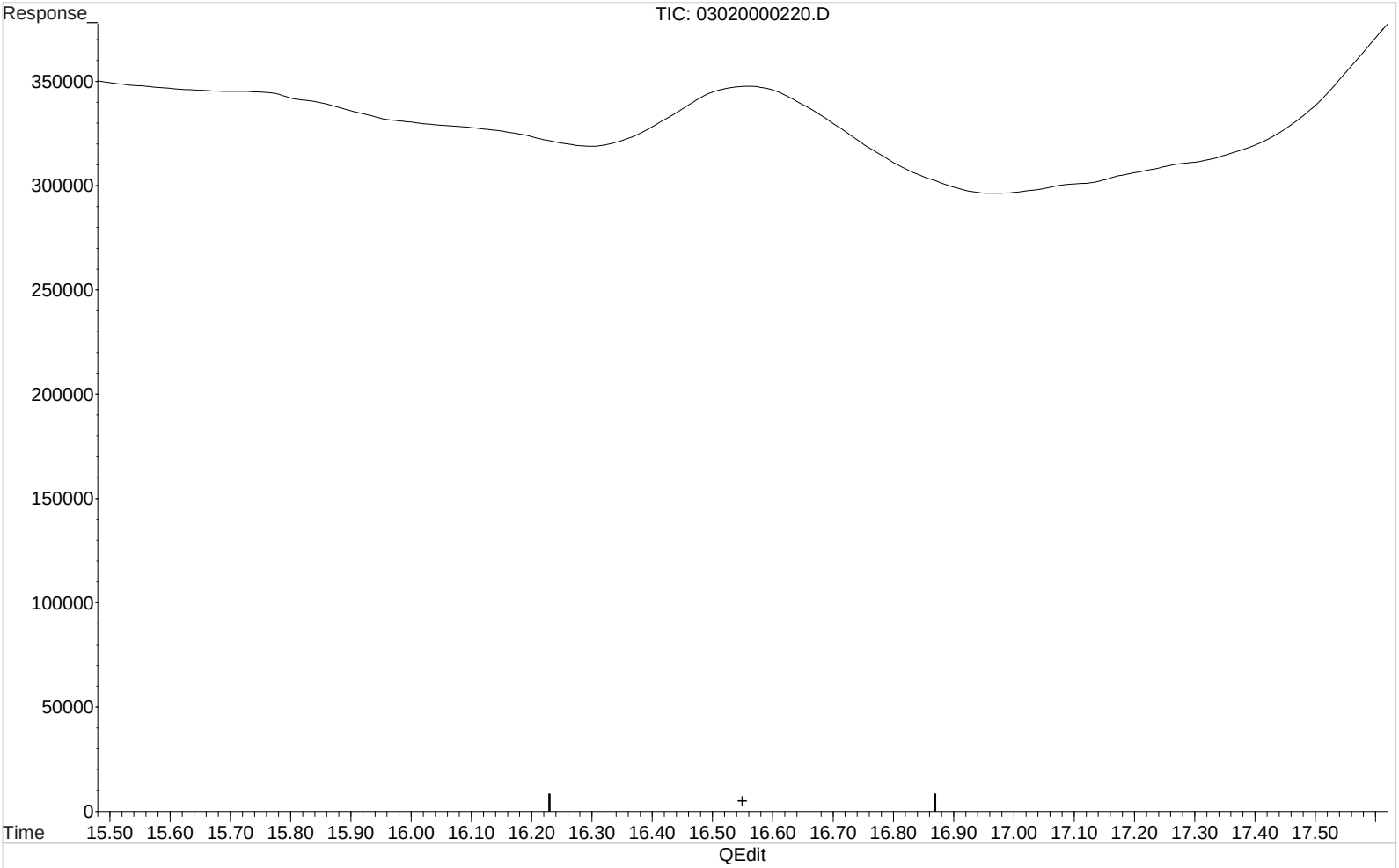
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_210\03020000220.D Vial: 18
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 23:28:26 Operator: BR
Sample : K1701351-010 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:45:27 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

0.000min 0.000 ug/L d

response 0

Manual Integration:

Before

03/08/17

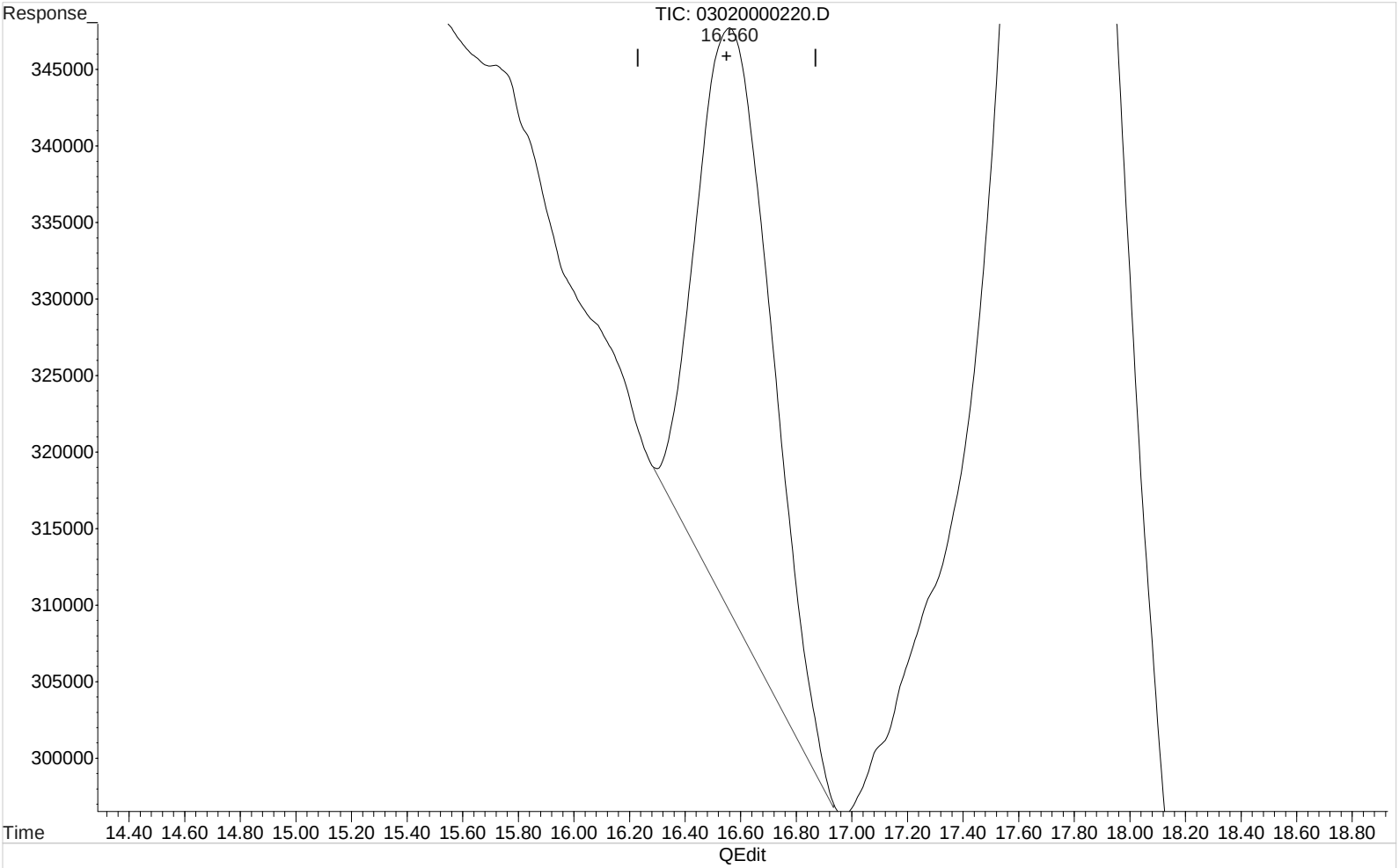
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000220.D Vial: 18
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 23:28:26 Operator: BR
Sample : K1701351-010 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:45:27 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.560min 34.450 ug/L m

response 718174

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000223.
Lab ID: K1701351-011
RunType: SMPL
Matrix: SOIL

Date Acquired: 03/03/2017 01:17
Date Quantitated: 03/08/2017 15:55
Batch ID: KWG1701858
Analysis Method: 8330B
ListJoinID: LJ15912

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000223.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 01:17	**Quant Date:**	03/08/2017 15:55	**Vial:**	19
Run Type:	SMPL	**ListJoinID:**	LJ14468	**Dilution:**	1.0
Lab ID:	K1701351-011			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/07/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701858	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587773	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ14468
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_254\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.59	-0.08	86884260	4,021	80	34-135	OK	

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX	4.64	-0.12	11341**m**	0.9470	0.0064	U	
RDX			0		0.049	U	
1,3,5-Trinitrobenzene			0		0.027	U	
1,3-Dinitrobenzene	13.79		170307**m**	2.83	0.012	U	
TETRYL			0		0.041	U	
Nitrobenzene	16.18	0.06	51080**m**	1.32	0.0044	U	
2,4,6-Trinitrotoluene			0		0.018	U	
4-Amino-2,6-dinitrotoluene			0		0.0051	U	
2-Amino-4,6-dinitrotoluene			0		0.0075	U	
2,6-Dinitrotoluene			0		0.0051	U	
2,4-Dinitrotoluene	21.87	-0.30	255702**m**	4.32	0.041	U	
2-Nitrotoluene			0		0.0071	U	
4-Nitrotoluene			0		0.018	U	
3-Nitrotoluene	27.07	-0.29	224631**m**	11.16	0.018	U	

Prep Amount:	10.189 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000223.D Vial: 19
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 01:17:10 Operator: BR
Sample : K1701351-011 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 15:55:25 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
18)	S	1-Chloro-3-Nitrobenzene	29.595	86884260	4020.711	ug/L	
		Target Compounds					
1)	T	2,6-Diamino-4-nitroto...	4.288	42302	NoCal	ug/L	
2)	T	HMX	4.641f	11341	0.947	ug/L	m
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	0.000	0	N.D.	ug/L	
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L	
6)	T	1,3-DNB	13.788	170307	2.825	ug/L	m
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L	
8)	T	Tetryl	0.000	0	N.D.	ug/L	
9)	T	Nitrobenzene	16.181f	51080	1.323	ug/L	m
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L	
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L	
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L	
13)	T	2,6-DNT	0.000	0	N.D.	ug/L	
14)	T	2,4-DNT	21.868	255702	4.317	ug/L	m
15)	T	2-NT	0.000	0	N.D.	ug/L	
16)	T	4-NT	0.000	0	N.D.	ug/L	
17)	T	3-NT	27.075	224631	11.156	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] (9) (g) 03/14/17
03/29/17

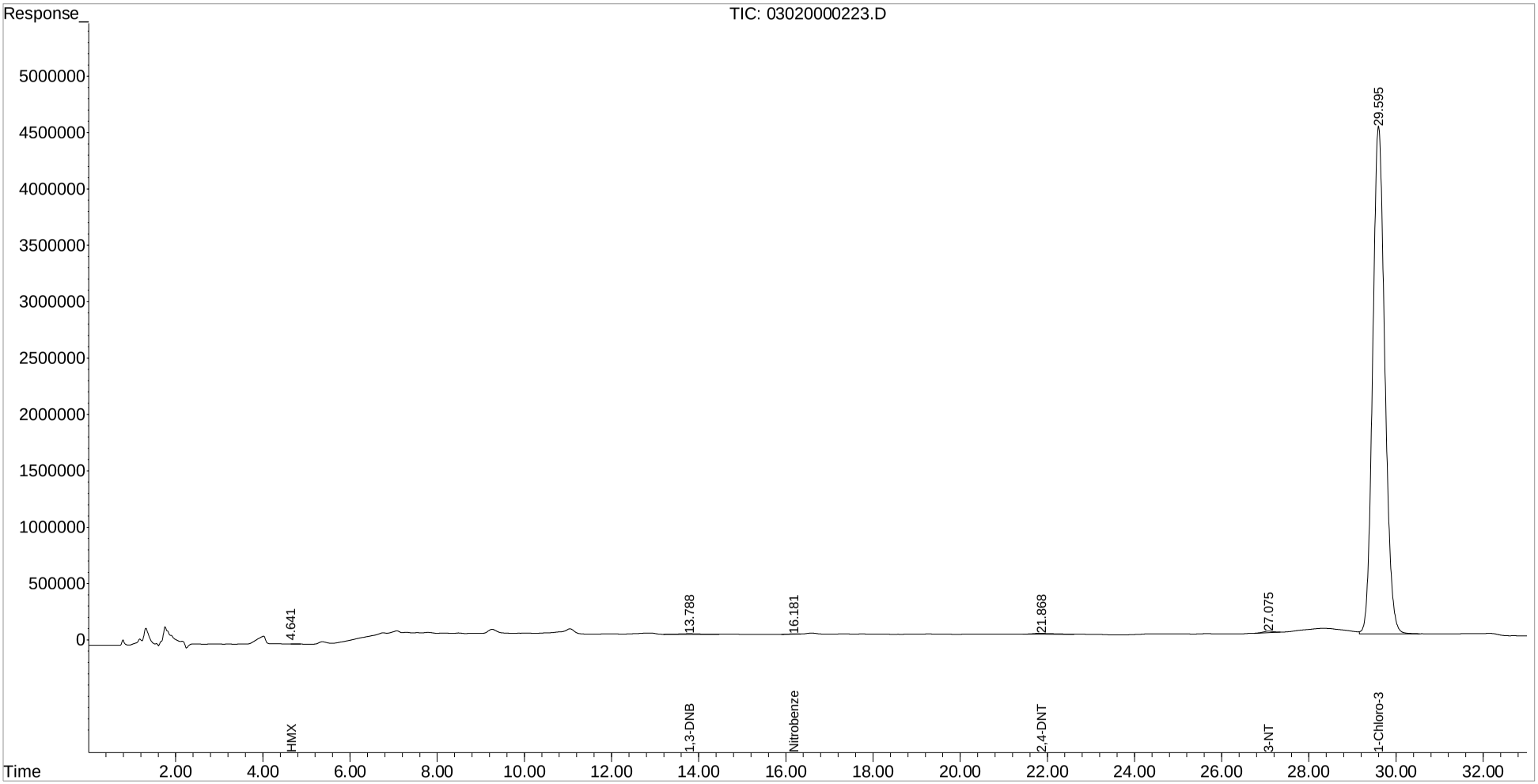
Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000223.D Vial: 19
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 01:17:10 Operator: BR
Sample : K1701351-011 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 15:55:25 2017
Quant Results File: 120716_8330B@254.RES

11/01/2018

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



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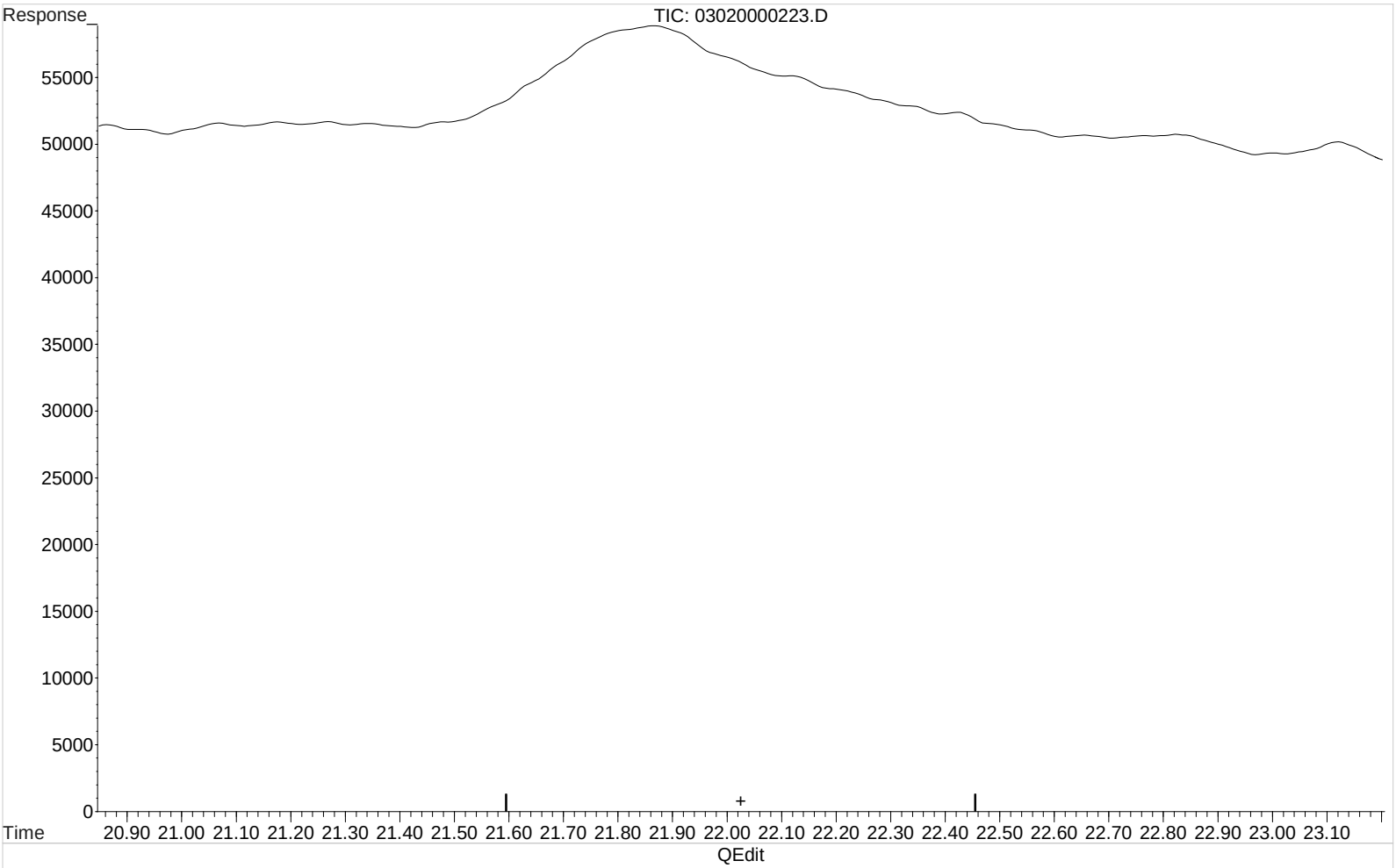
012133

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000223.D Vial: 19
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 01:17:10 Operator: BR
Sample : K1701351-011 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 15:00:18 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.025min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

(+) = Expected Retention Time

(b) (6)

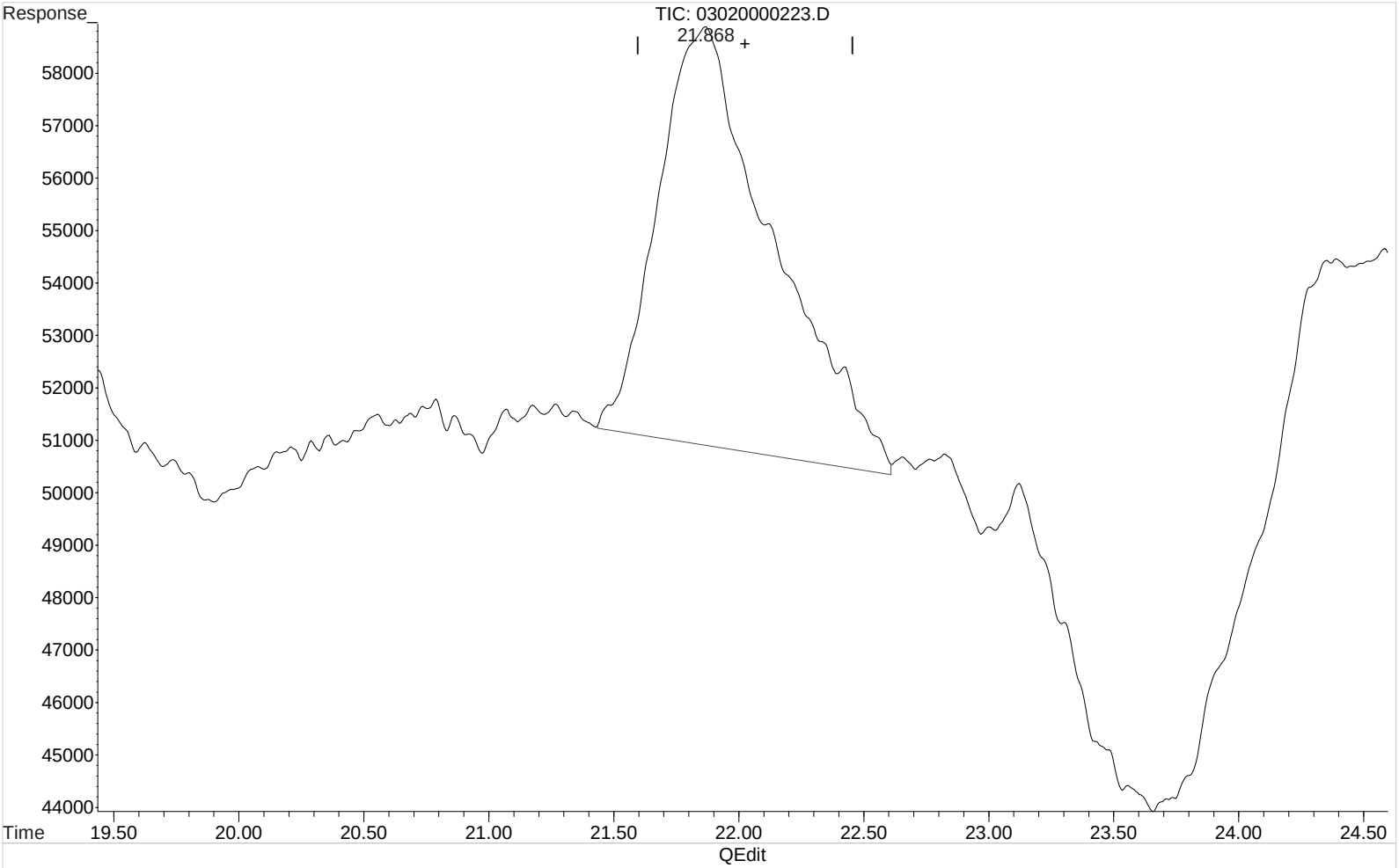
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000223.D Vial: 19
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 01:17:10 Operator: BR
Sample : K1701351-011 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 15:00:18 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

21.868min 4.317 ug/L m

response 255702

Manual Integration:

After

BLC

03/08/17

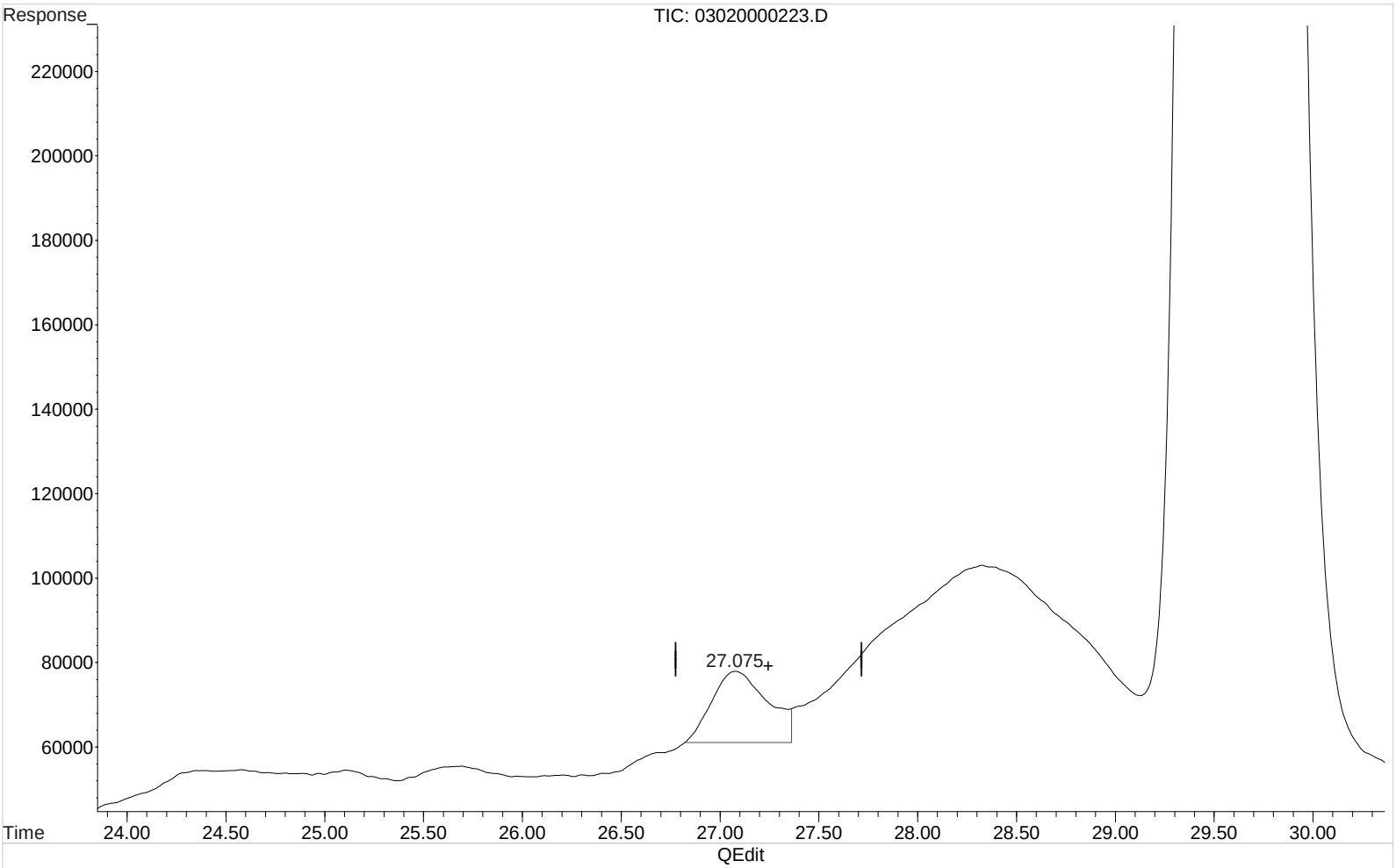
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000223.D Vial: 19
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 01:17:10 Operator: BR
Sample : K1701351-011 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:05 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.075min 16.620 ug/L

response 334666

Manual Integration:

Before

03/07/17

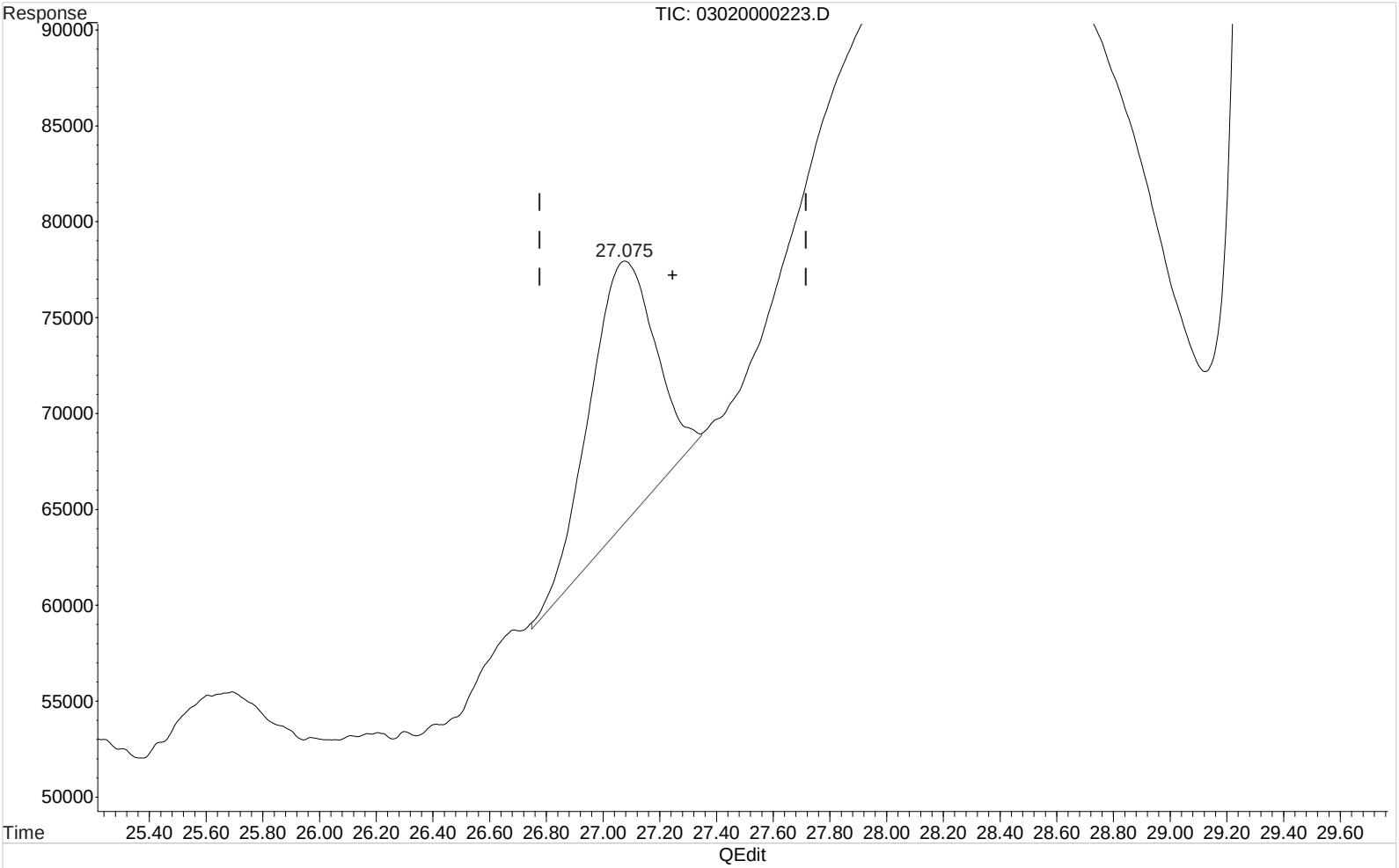
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000223.D Vial: 19
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 01:17:10 Operator: BR
Sample : K1701351-011 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:05 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(17) 3-NT (T)

27.075min 11.156 ug/L m

response 224631

Manual Integration:

After

Baseline/Shoulder

03/07/17

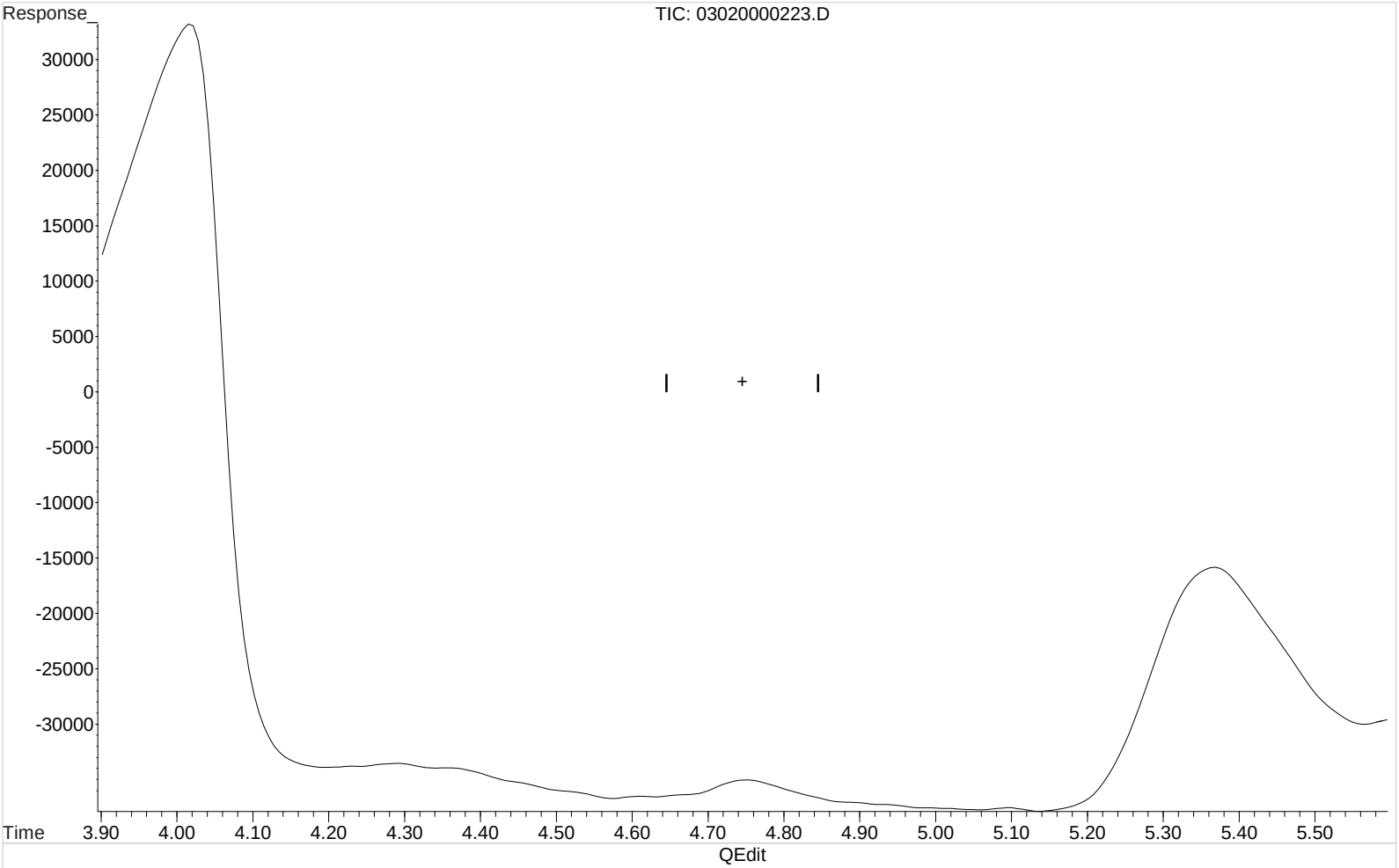
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000223.D Vial: 19
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 01:17:10 Operator: BR
Sample : K1701351-011 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 07 16:38:00 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(2) HMX (T)

4.745min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

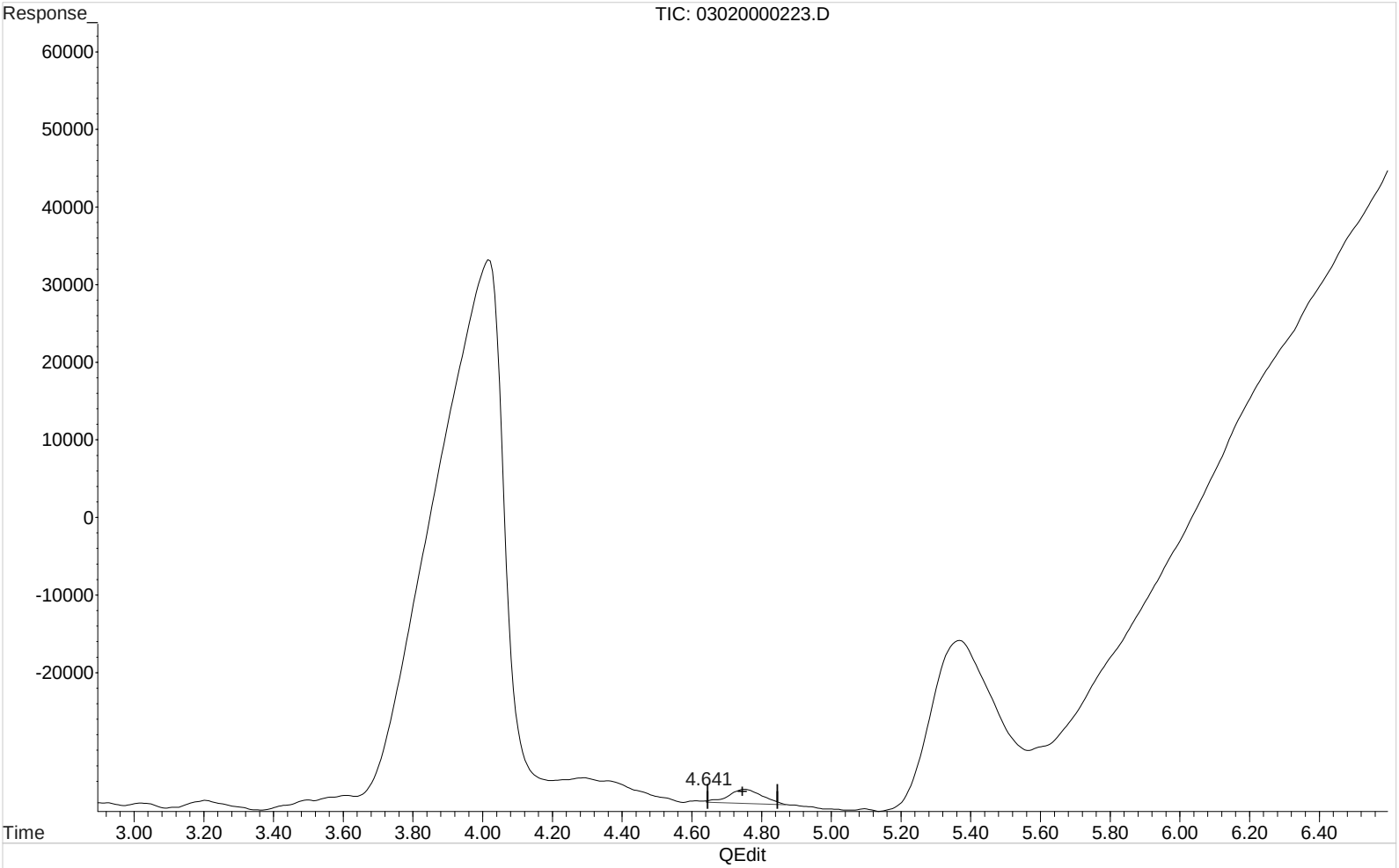
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000223.D Vial: 19
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 01:17:10 Operator: BR
Sample : K1701351-011 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 07 16:38:00 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(2) HMX (T)

4.641min 1.029 ug/L m

response 12320

Manual Integration:

After

BLC

03/08/17

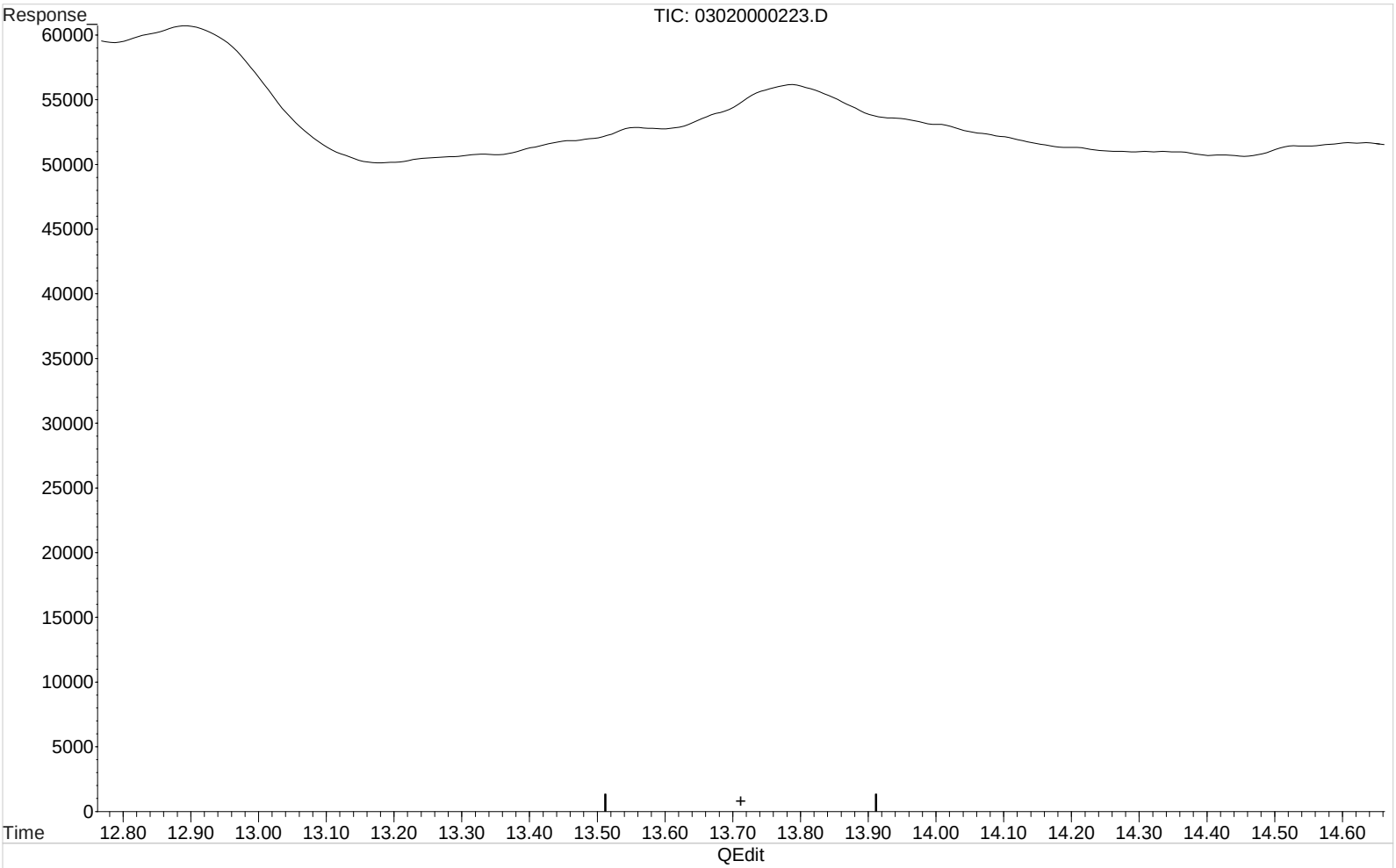
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000223.D Vial: 19
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 01:17:10 Operator: BR
Sample : K1701351-011 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 15:00:18 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(6) 1,3-DNB (T)

13.712min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

(+) = Expected Retention Time

(b) (6)

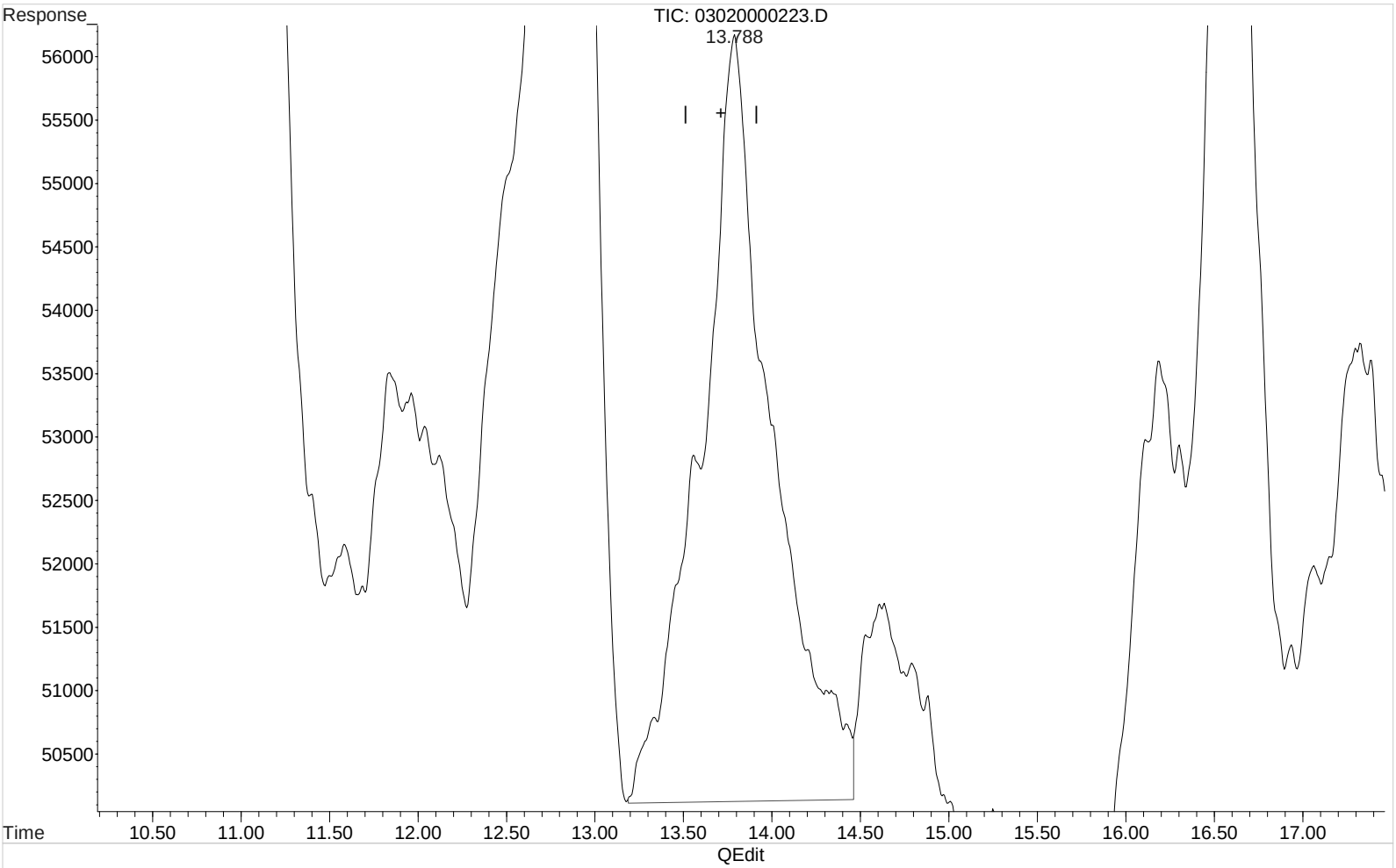
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000223.D Vial: 19
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 01:17:10 Operator: BR
Sample : K1701351-011 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 15:00:18 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(6) 1,3-DNB (T)

13.788min 2.825 ug/L m

response 170307

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

(b) (6)

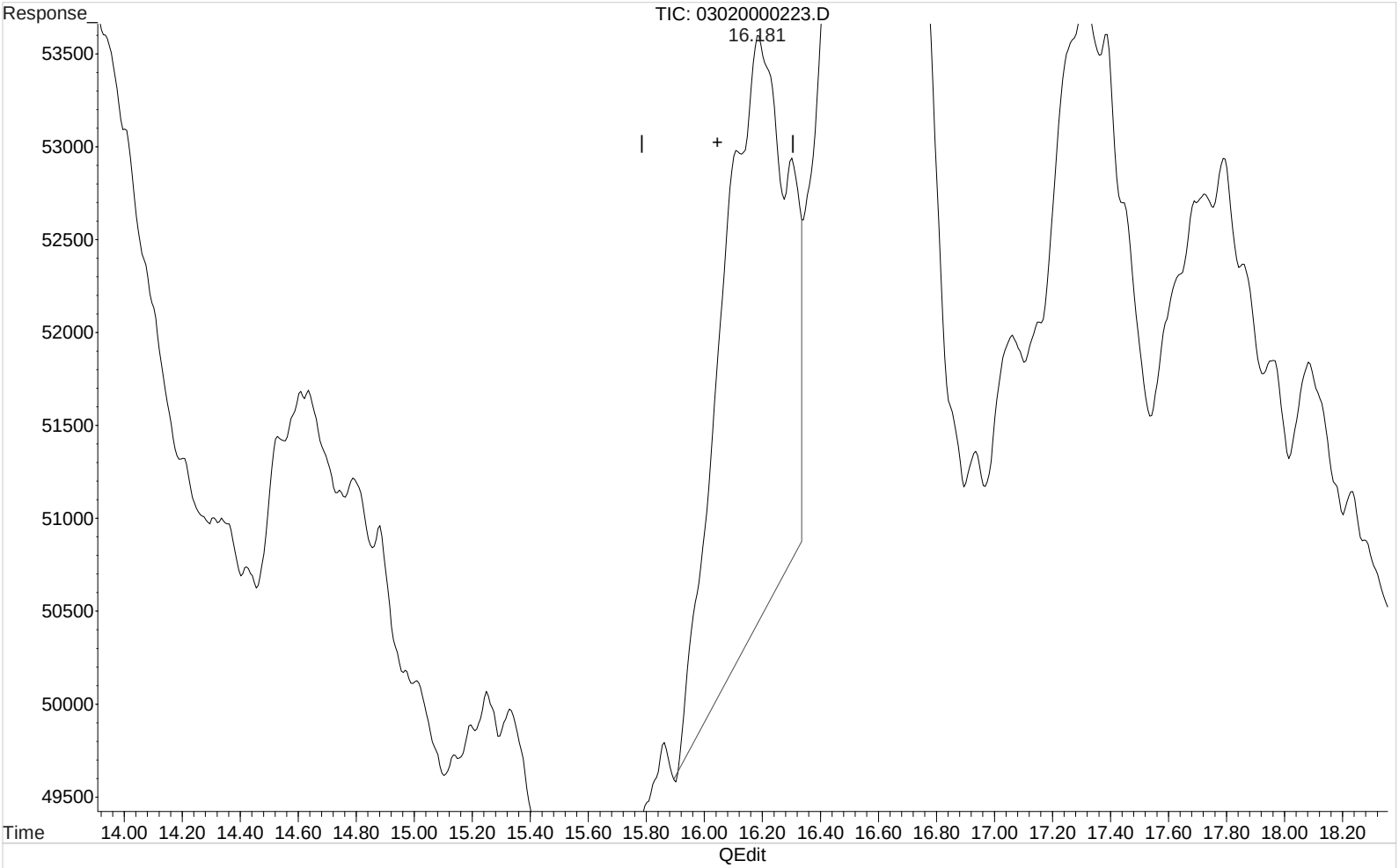
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000223.D Vial: 19
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 01:17:10 Operator: BR
Sample : K1701351-011 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 15:00:18 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.181min 1.323 ug/L m

response 51080

no before

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000223.
Lab ID: K1701351-011
RunType: SMPL
Matrix: SOIL

Date Acquired: 03/03/2017 01:17
Date Quantitated: 03/06/2017 15:00
Batch ID: KWG1701860
Analysis Method: 8330B
ListJoinID: LJ15912

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA		x
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Lab Control Spike	Nitroglycerin	130	73	124	LCS+ND

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000223.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 01:17	**Quant Date:**	03/06/2017 15:00	**Vial:**	19
Run Type:	SMPL	**ListJoinID:**	LJ14468	**Dilution:**	1.0
Lab ID:	K1701351-011			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/07/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587773	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ14468
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_210\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.59	-0.08	228778904	4,023	80	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.55	0.01	679088	32.58	0.058	U	
Pentaerythritol Tetranitrate	27.68	-0.03	439817	25.00	0.11	U	

Prep Amount:	10.189 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000223.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 01:17	**Quant Date:**	03/06/2017 15:00	**Vial:**	19
Run Type:	SMPL	**ListJoinID:**	LJ15912	**Dilution:**	1.0
Lab ID:	K1701351-011			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/07/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587773	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ15912
		Method ID:	MJ1432
MB Ref:	J:\LC10\DATA\030317_8330_210\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.59	-0.08	228778904	4,023	80	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.55	0.01	679088	32.58	0.058	U	
Pentaerythritol Tetranitrate	27.68	-0.03	439817	25.00	0.11	U	

Prep Amount:	10.189 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000223.D Vial: 19
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 01:17:10 Operator: BR
Sample : K1701351-011 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:00:20 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
3) S	1-Chloro-3-Nitrobenzene	29.595	228778904	4023.417	ug/L
Target Compounds					
1) T	Nitroglycerin	16.555	679088	32.575	ug/L
2) T	PETN	27.681	439817	24.996	ug/L

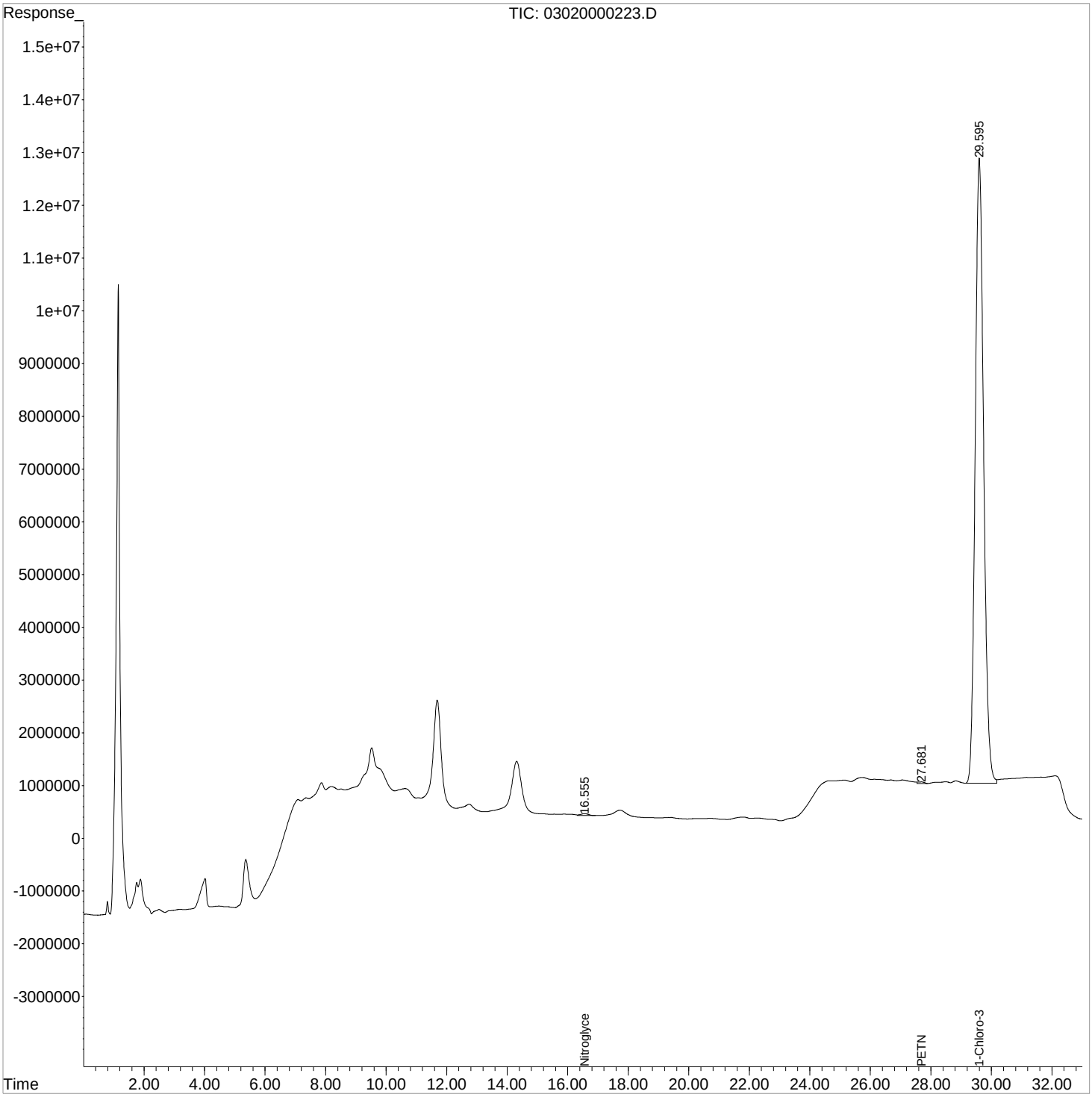
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000223.D Vial: 19
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 01:17:10 Operator: BR
Sample : K1701351-011 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:00:20 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000224.
Lab ID: K1701351-012
RunType: SMPL
Matrix: SOIL

Date Acquired: 03/03/2017 01:53
Date Quantitated: 03/10/2017 09:45
Batch ID: KWG1701858
Analysis Method: 8330B
ListJoinID: LJ15912

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000224.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 01:53	**Quant Date:**	03/10/2017 09:45	**Vial:**	20
Run Type:	SMPL	**ListJoinID:**	LJ14468	**Dilution:**	1.0
Lab ID:	K1701351-012			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/08/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701858	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587774	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ14468
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_254\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.66	-0.01	90275080	4,178	84	34-135	OK	

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX	4.53	-0.23	20896**m**	1.75	0.0064	U	
RDX			0		0.049	U	
1,3,5-Trinitrobenzene			0		0.027	U	
1,3-Dinitrobenzene	13.52	-0.27	356740**m**	5.92	0.012	U	
TETRYL			0		0.041	U	
Nitrobenzene			0		0.0044	U	
2,4,6-Trinitrotoluene	17.31	-0.04	109809**m**	2.64	0.018	U	
4-Amino-2,6-dinitrotoluene	19.37	0.22	823194**m**	27.89	0.022	J	NR
2-Amino-4,6-dinitrotoluene			0		0.0075	U	
2,6-Dinitrotoluene			0		0.0051	U	
2,4-Dinitrotoluene	22.15	-0.02	3009422**m**	50.80	0.041	U	
2-Nitrotoluene			0		0.0071	U	
4-Nitrotoluene	26.18	-0.05	67616**m**	4.26	0.018	U	
3-Nitrotoluene	27.12	-0.24	473382**m**	23.51	0.019	J	

Prep Amount:	10.090 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99.3 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000224.D Vial: 20
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 01:53:26 Operator: BR
Sample : K1701351-012 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 09:45:26 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
18)	S	1-Chloro-3-Nitrobenzene	29.661	90275080	4177.627	ug/L	
		Target Compounds					
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	d
2)	T	HMX	4.535f	20896	1.745	ug/L	m
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	0.000	0	N.D.	ug/L	
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L	
6)	T	1,3-DNB	13.521f	356740	5.918	ug/L	m
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L	
8)	T	Tetryl	0.000	0	N.D.	ug/L	
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L	
10)	T	2,4,6-TNT	17.308	109809	2.636	ug/L	m
11)	T	4-Amino-2,6-DNT	19.368f	823194	27.892	ug/L	m
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L	
13)	T	2,6-DNT	0.000	0	N.D.	ug/L	
14)	T	2,4-DNT	22.148	3009422	50.804	ug/L	m
15)	T	2-NT	0.000	0	N.D.	ug/L	
16)	T	4-NT	26.181	67616	4.260	ug/L	m
17)	T	3-NT	27.121	473382	23.509	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] (b) (6) 3/14/17
3/29/17

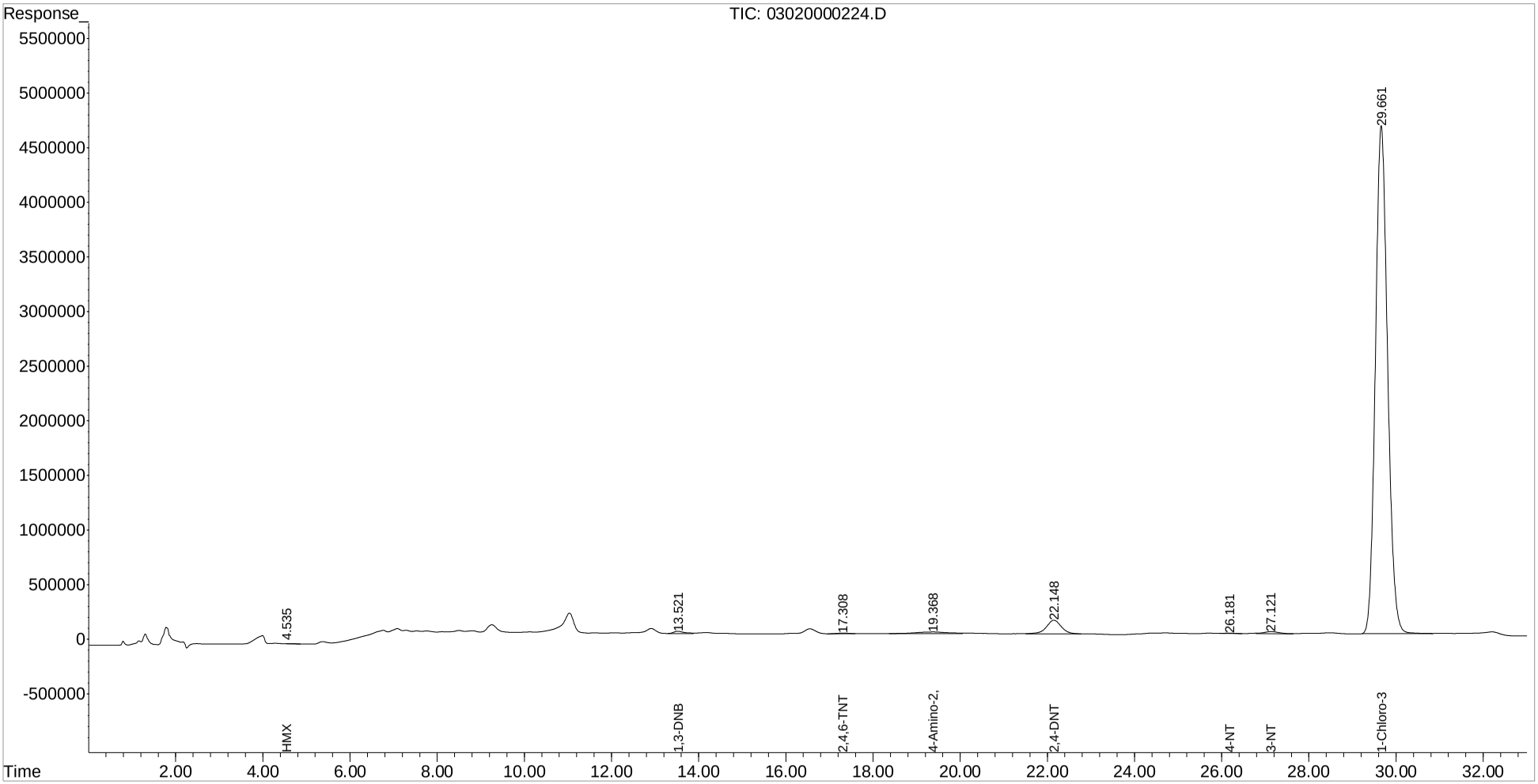
Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000224.D Vial: 20
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 01:53:26 Operator: BR
Sample : K1701351-012 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 09:45:26 2017
Quant Results File: 120716_8330B@254.RES

11/01/2018

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



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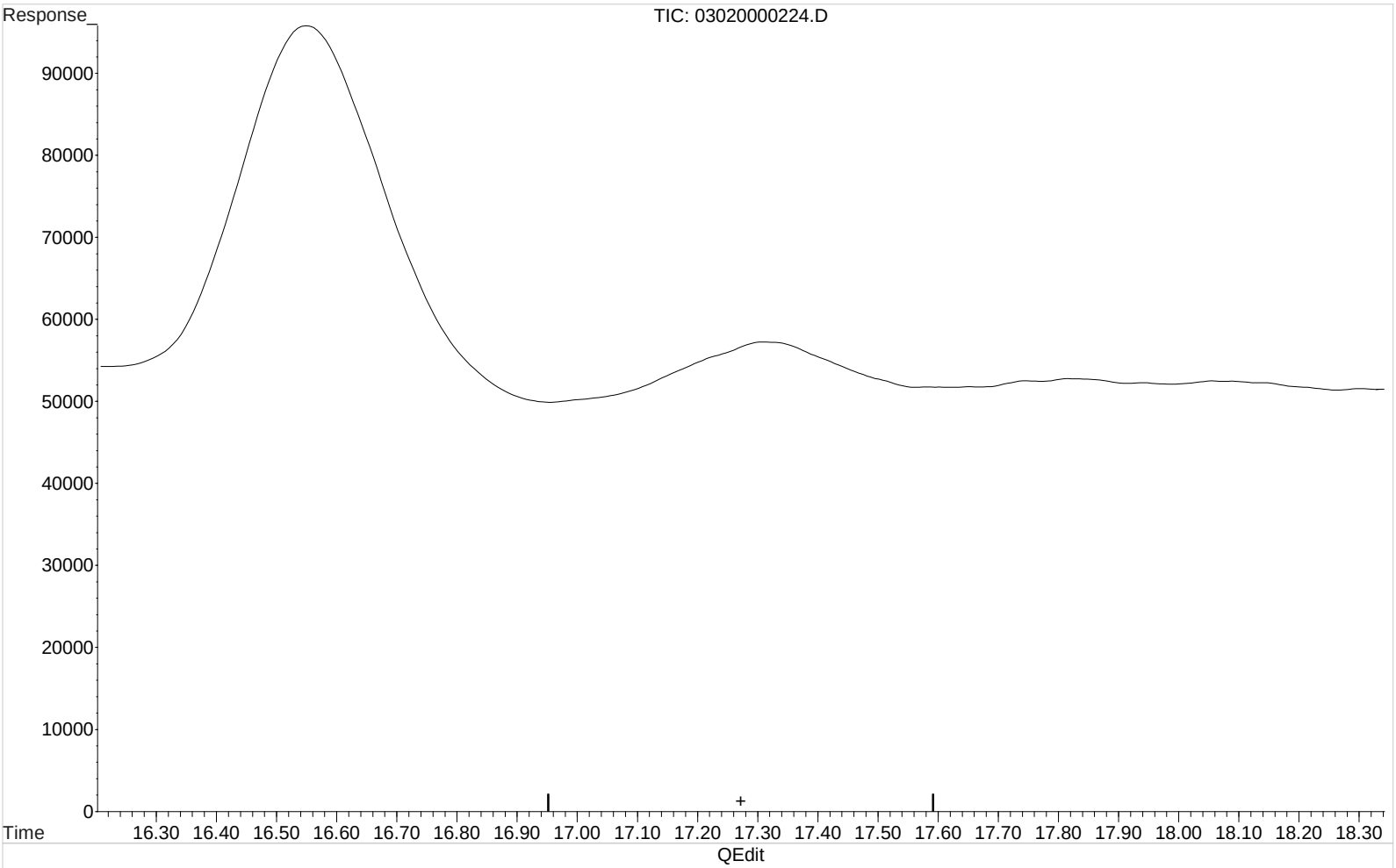
012151

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000224.D Vial: 20
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 01:53:26 Operator: BR
Sample : K1701351-012 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:42:56 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(10) 2,4,6-TNT (T)

17.272min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

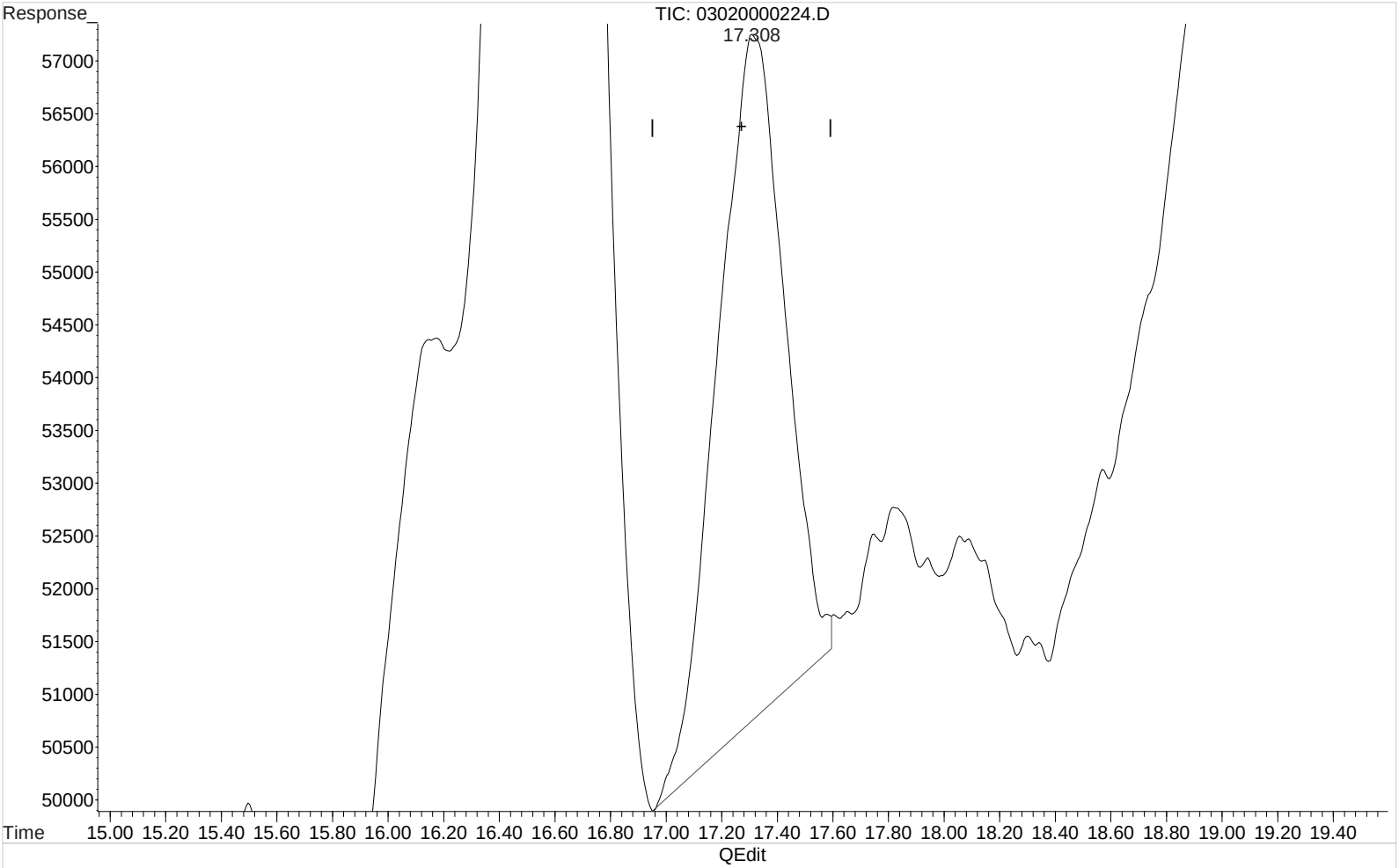
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000224.D Vial: 20
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 01:53:26 Operator: BR
Sample : K1701351-012 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:42:56 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(10) 2,4,6-TNT (T)

17.308min 2.636 ug/L m

response 109809

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

(b) (6)

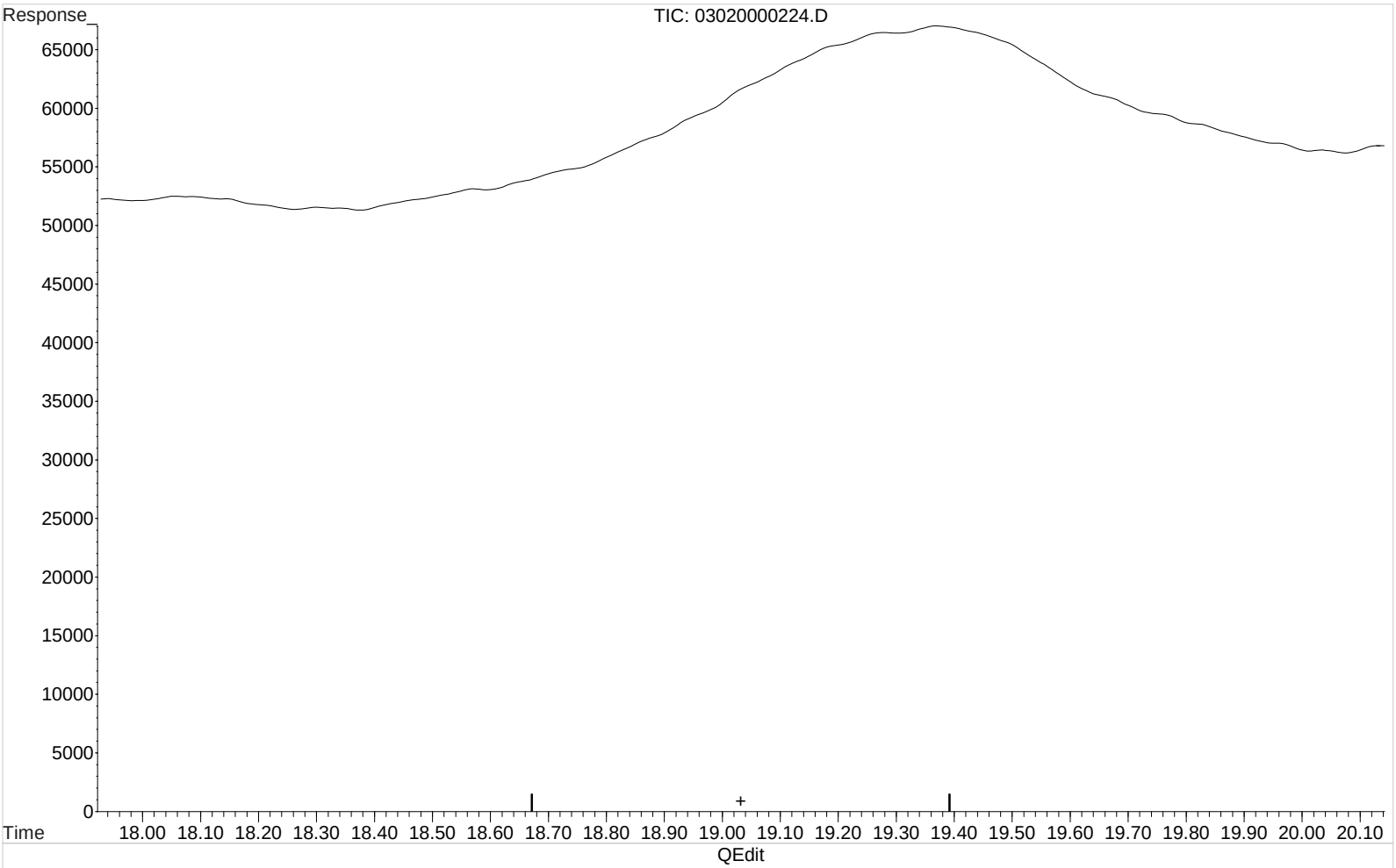
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000224.D Vial: 20
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 01:53:26 Operator: BR
Sample : K1701351-012 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:42:56 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(11) 4-Amino-2,6-DNT (T)

19.032min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

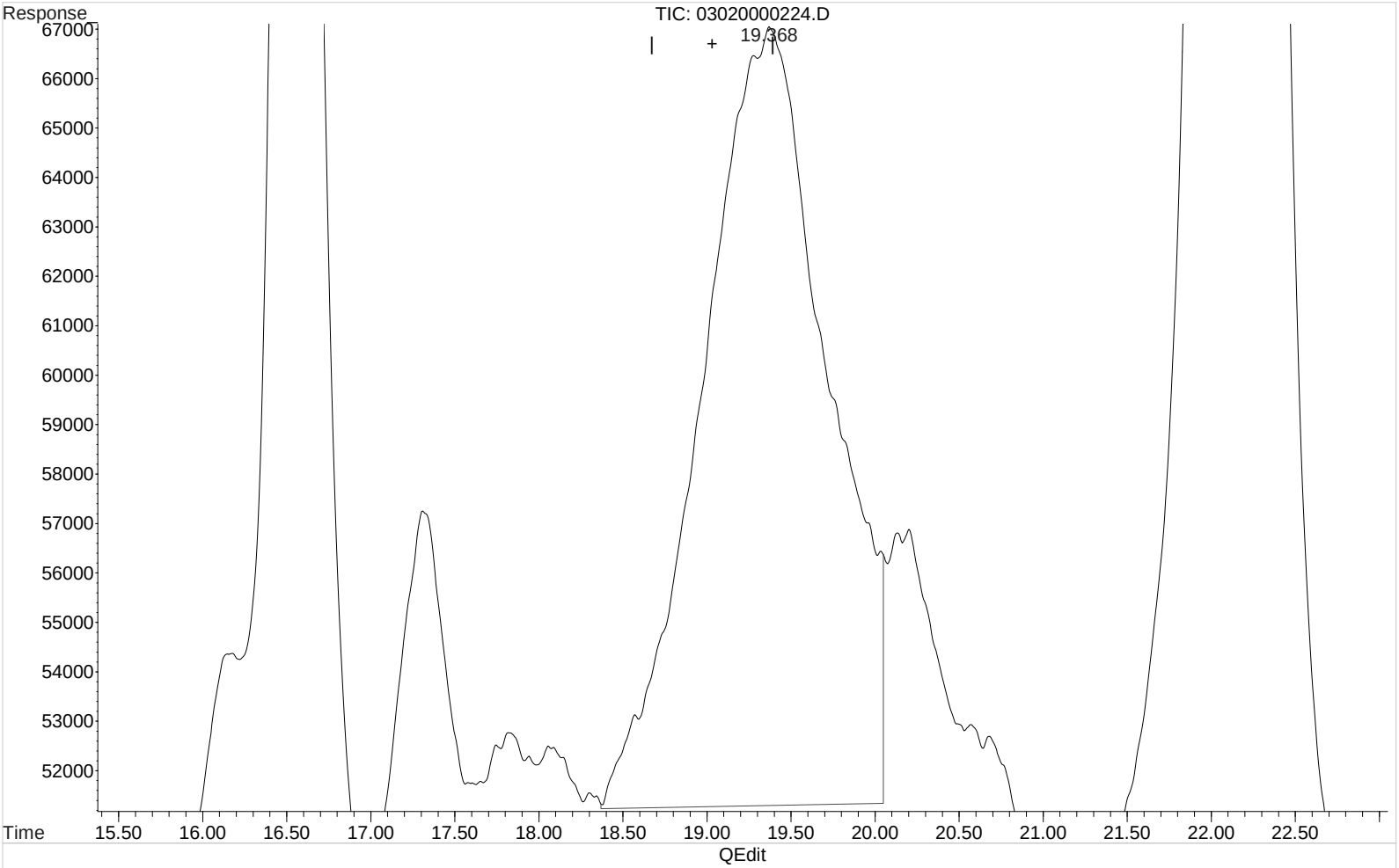
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000224.D Vial: 20
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 01:53:26 Operator: BR
Sample : K1701351-012 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:42:56 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(11) 4-Amino-2,6-DNT (T)

19.368min 27.892 ug/L m

response 823194

Manual Integration:

After

BLC

03/08/17

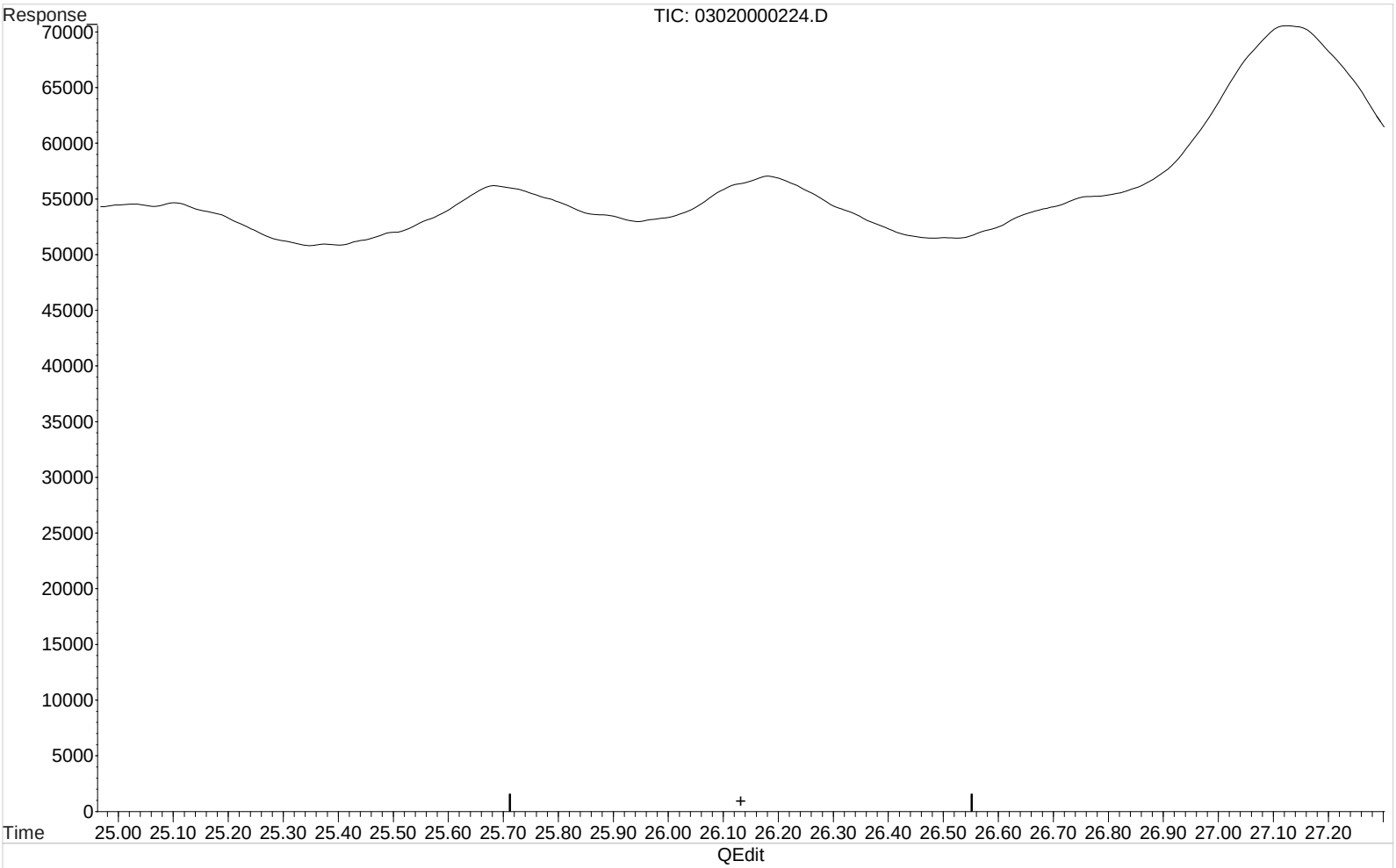
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000224.D Vial: 20
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 01:53:26 Operator: BR
Sample : K1701351-012 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:42:56 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.132min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

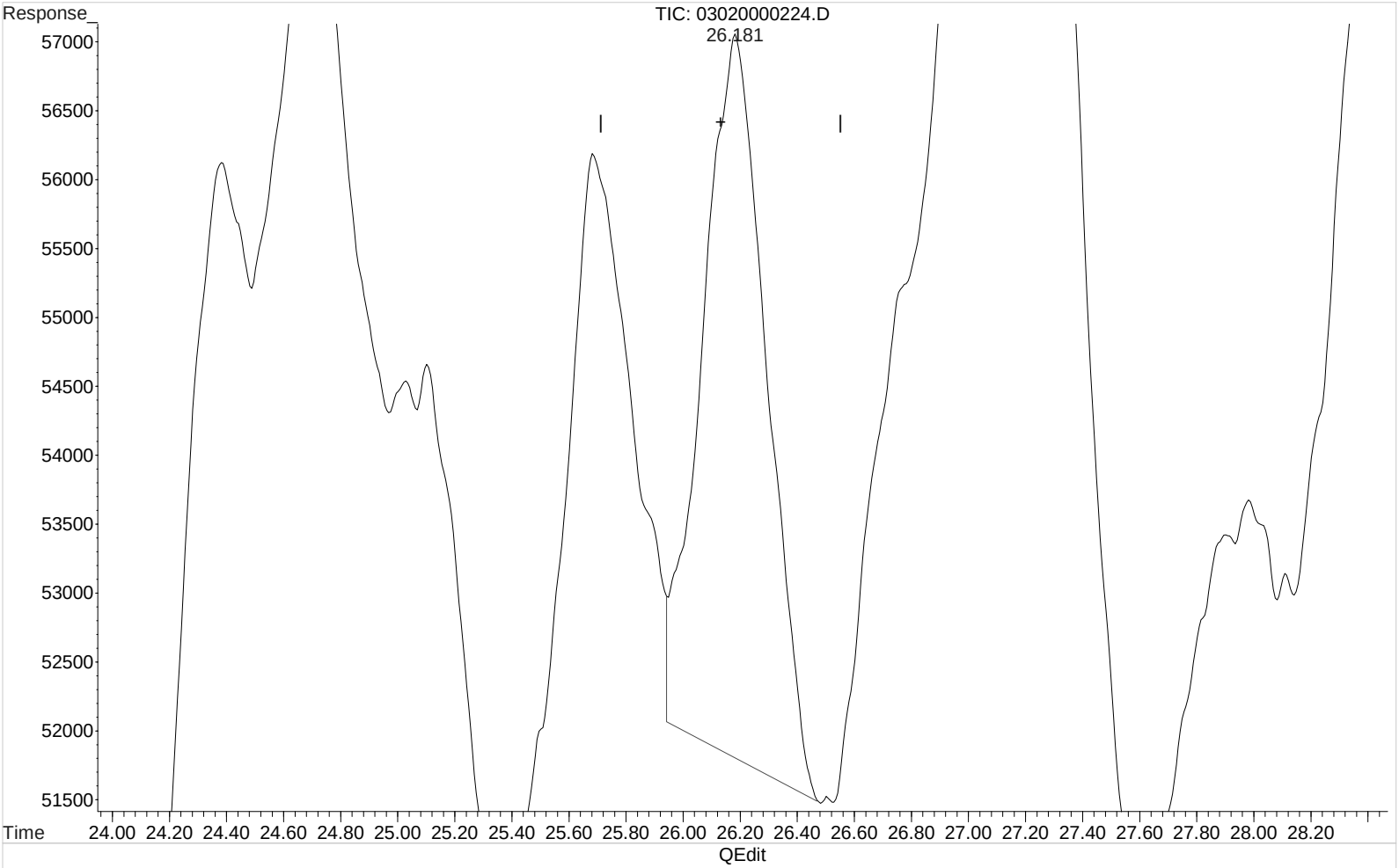
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000224.D Vial: 20
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 01:53:26 Operator: BR
Sample : K1701351-012 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:42:56 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.181min 5.205 ug/L m

response 82610

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

(b) (6)

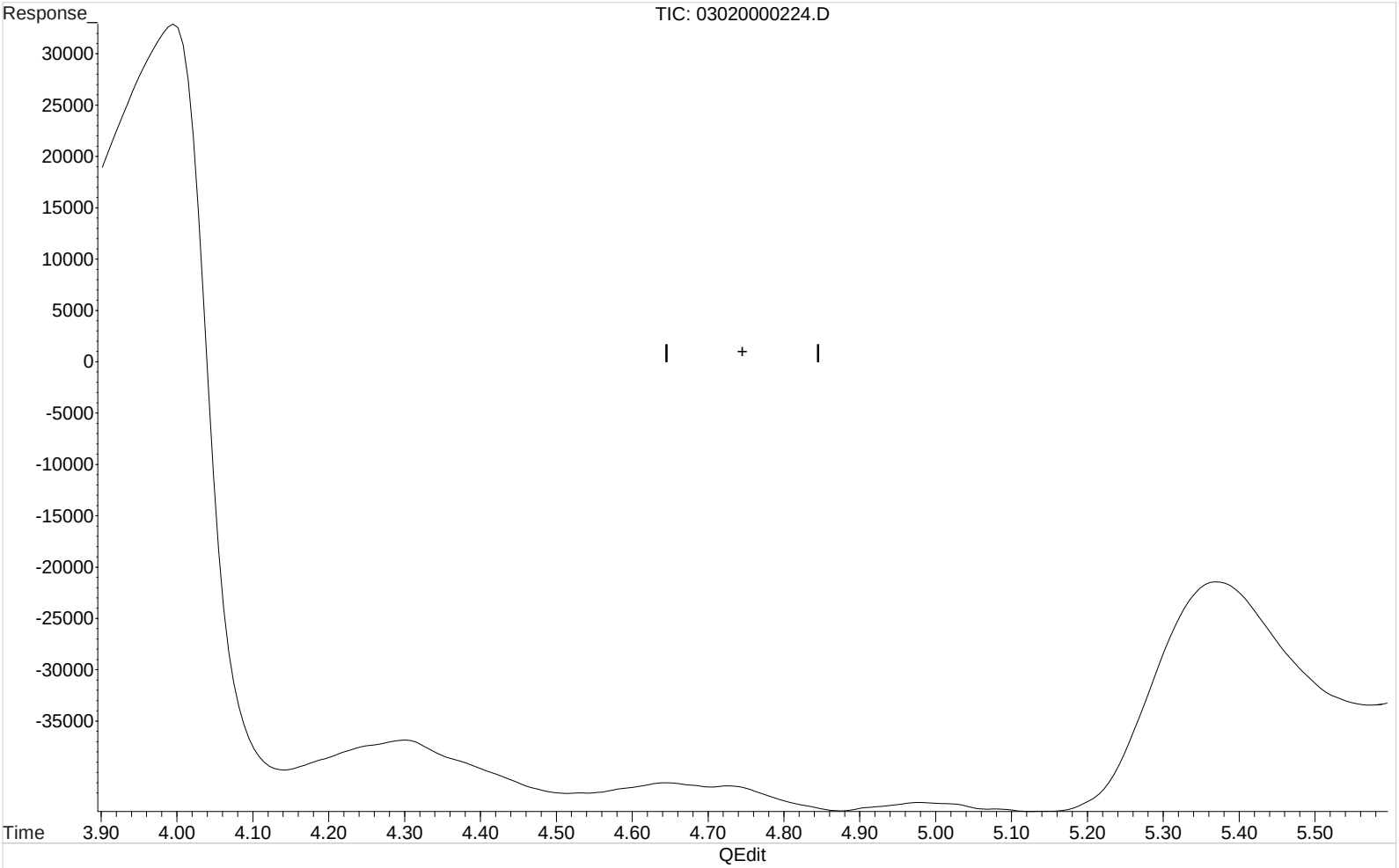
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000224.D Vial: 20
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 01:53:26 Operator: BR
Sample : K1701351-012 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:42:56 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(2) HMX (T)

4.745min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

(+) = Expected Retention Time

(b) (6)

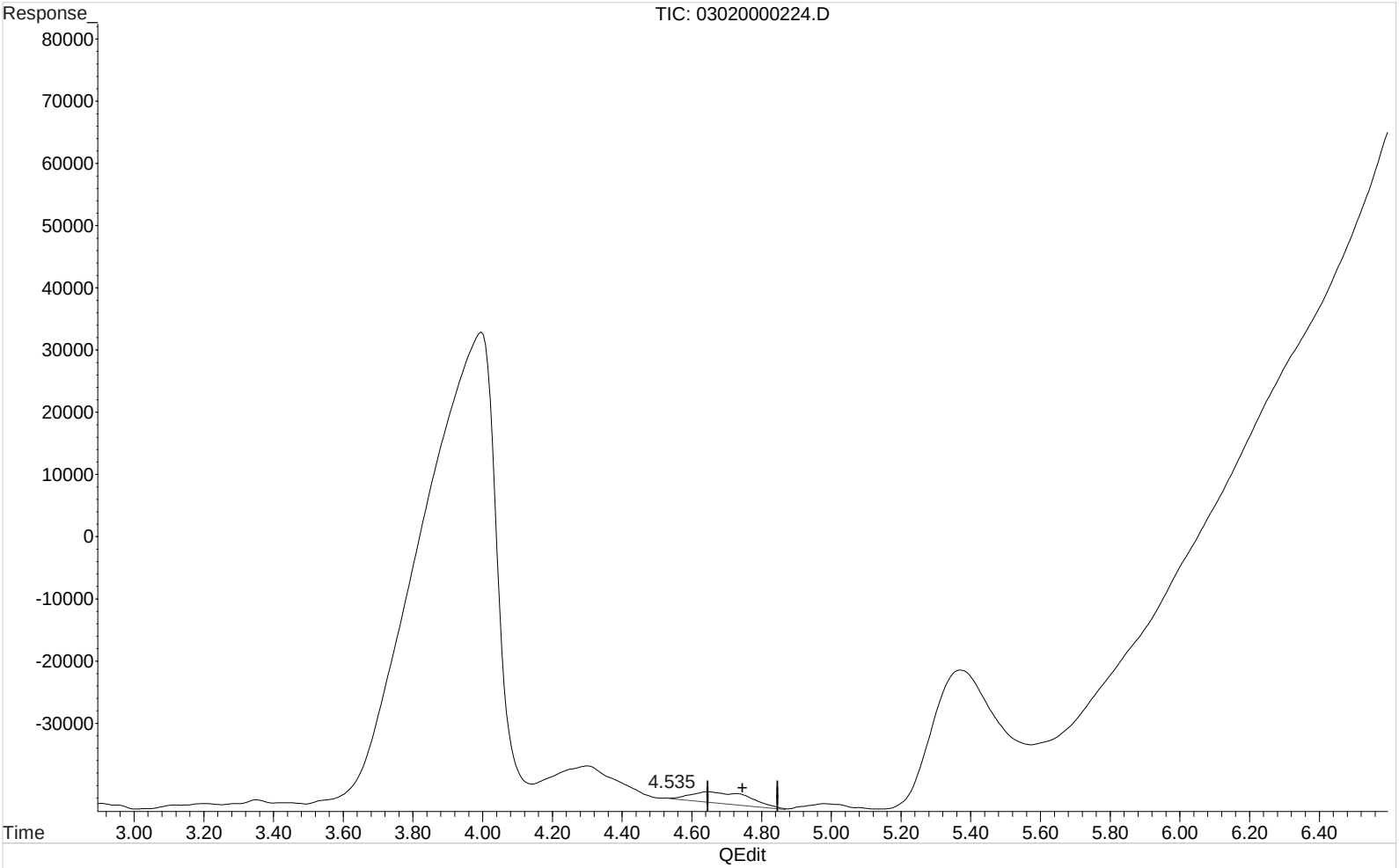
3/14/17

3/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000224.D Vial: 20
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 01:53:26 Operator: BR
Sample : K1701351-012 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:42:56 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(2) HMX (T)

4.535min 1.745 ug/L m

response 20896

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

120716_8330B@254.M Wed Mar 08 15:57:41 2017

(b) (6)

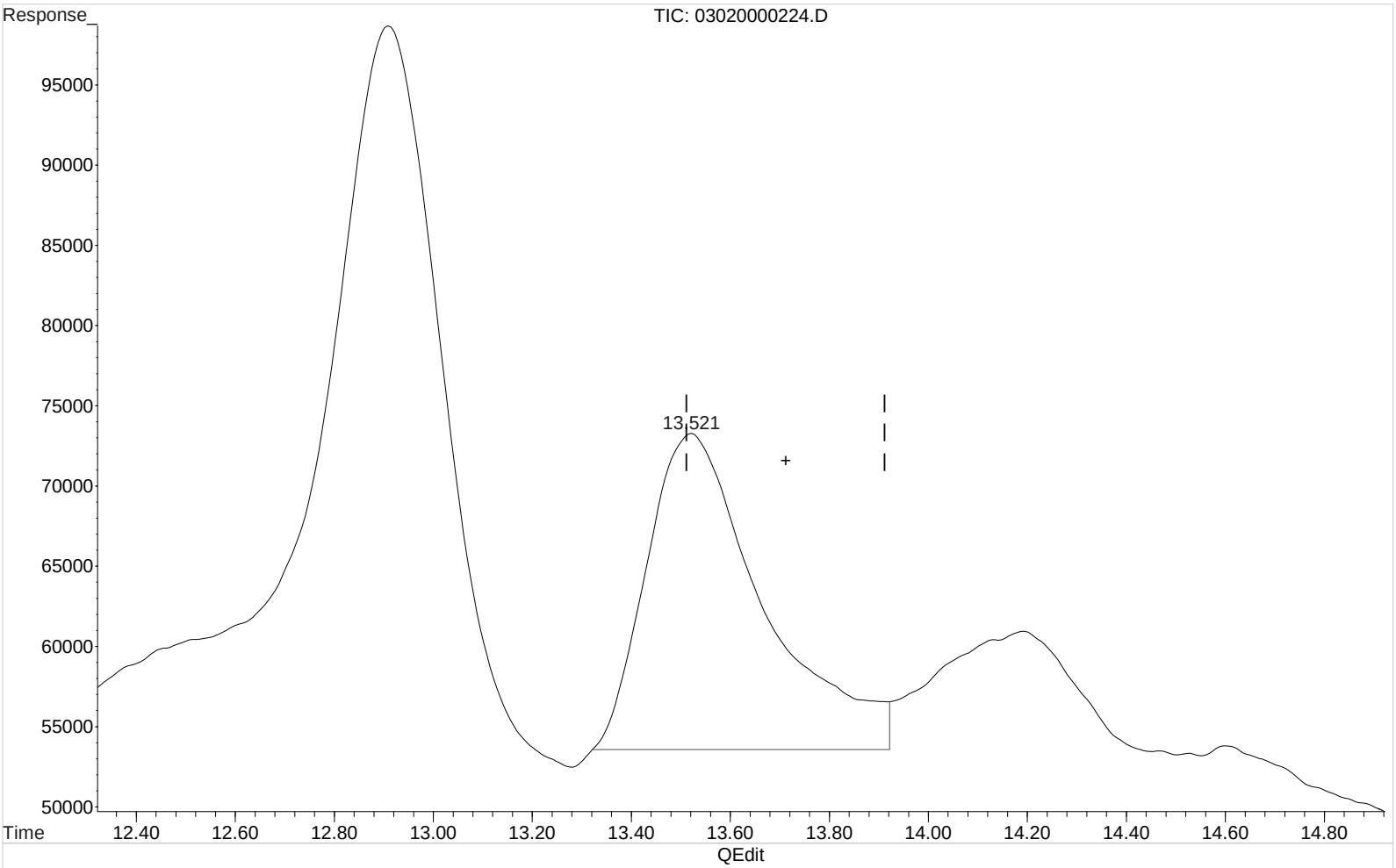
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000224.D Vial: 20
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 01:53:26 Operator: BR
Sample : K1701351-012 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:42:56 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(6) 1,3-DNB (T)

13.521min 5.335 ug/L

response 321630

Manual Integration:

Before

03/08/17

(+) = Expected Retention Time

(b) (6)

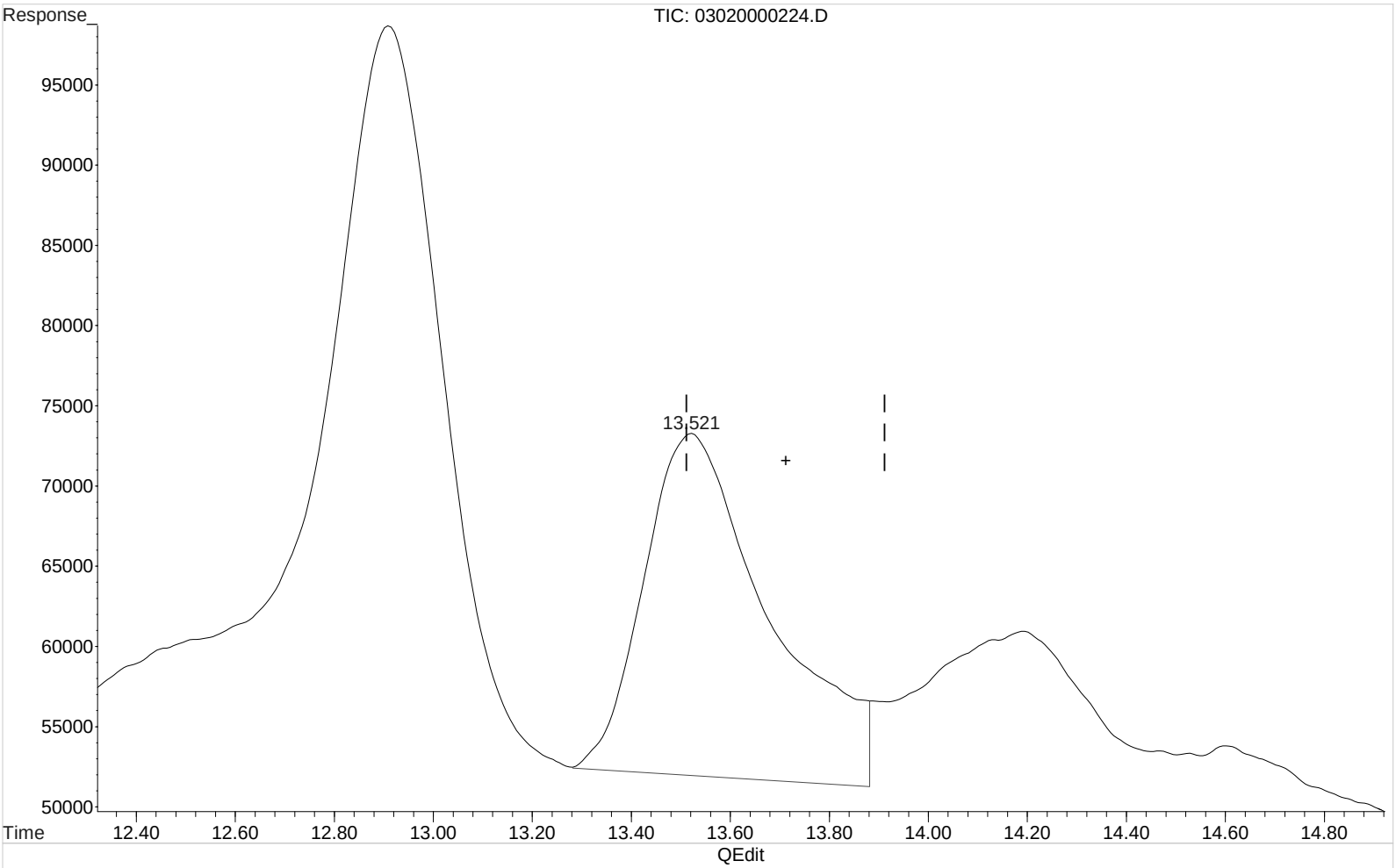
3/14/17

3/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000224.D Vial: 20
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 01:53:26 Operator: BR
Sample : K1701351-012 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:42:56 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(6) 1,3-DNB (T)

13.521min 6.231 ug/L m

response 375623

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000224.
Lab ID: K1701351-012
RunType: SMPL
Matrix: SOIL

Date Acquired: 03/03/2017 01:53
Date Quantitated: 03/06/2017 15:00
Batch ID: KWG1701860
Analysis Method: 8330B
ListJoinID: LJ15912

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000224.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 01:53	**Quant Date:**	03/06/2017 15:00	**Vial:**	20
Run Type:	SMPL	**ListJoinID:**	LJ14468	**Dilution:**	1.0
Lab ID:	K1701351-012			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/08/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587774	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ14468
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_210\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.66	-0.01	237455352	4,176	84	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.54		56867978	2,728	2.2		
Pentaerythritol Tetranitrate	27.35	-0.36	3907068	222.05	0.18	J	

Prep Amount:	10.090 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99.3 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000224.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 01:53	**Quant Date:**	03/06/2017 15:00	**Vial:**	20
Run Type:	SMPL	**ListJoinID:**	LJ15912	**Dilution:**	1.0
Lab ID:	K1701351-012			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/08/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587774	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ15912
		Method ID:	MJ1432
MB Ref:	J:\LC10\DATA\030317_8330_210\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.66	-0.01	237455352	4,176	84	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.54		56867978	2,728	2.2		
Pentaerythritol Tetranitrate	27.35	-0.36	3907068	222.05	0.18	J	<LOD

Prep Amount:	10.090 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99.3 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000224.D Vial: 20
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 01:53:26 Operator: BR
Sample : K1701351-012 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:00:22 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
3) S	1-Chloro-3-Nitrobenzene	29.661	237455352	4176.005	ug/L
Target Compounds					
1) T	Nitroglycerin	16.541	56867978	2727.914	ug/L
2) T	PETN	27.355f	3907068	222.050	ug/L

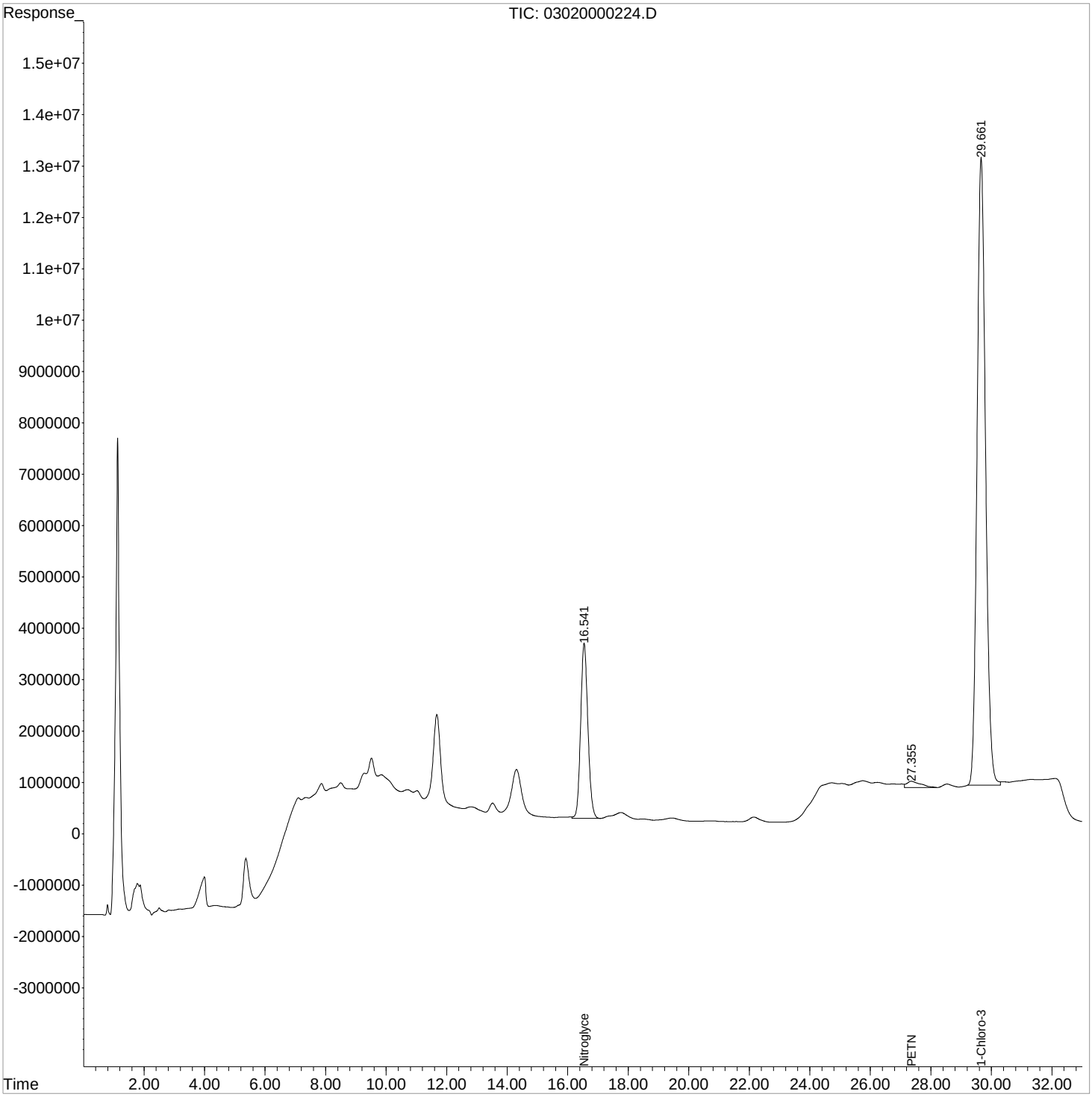
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000224.D Vial: 20
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 01:53:26 Operator: BR
Sample : K1701351-012 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:00:22 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Exception Report

Data File: J:\LC08\DATA\030317_8330_210\03030000124.
Lab ID: K1701351-012
RunType: SMPL
Matrix: SOIL

Date Acquired: 03/04/2017 05:36
Date Quantitated: 03/17/2017 09:07
Batch ID: KWG1702121
Analysis Method: 8330B
ListJoinID: LJ14468

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC08\DATA\030317_8330_210\03030000124.D			**Instrument:**	LC08
Acqu Date:	03/04/2017 05:36	**Quant Date:**	03/17/2017 09:07	**Vial:**	20
Run Type:	SMPL	**ListJoinID:**	LJ14468	**Dilution:**	1.0
Lab ID:	K1701351-012			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/08/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1702121	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587774	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC08\METHOD\020917_SHORT	**Calibration ID:**	CAL15185
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ14468
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_210\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	8.49	0.02	305162555**m**	4,387	88	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	3.92	0.01	52186052**m**	2,497	2.0		NR
Pentaerythritol Tetranitrate			0**d**		0.11	U	NR

Prep Amount:	10.090 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99.3 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

(b) (6)

3/17/17

3/29/17

Quantitation Report (QT Reviewed)

Data File : J:\LC08\DATA\030317_8330_210\03030000124.D Vial: 20
Signal(s) : DAD1B.ch
Acq On : 04-Mar-2017, 05:36:48 Operator: BR
Sample : K1701351-012 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 17 09:07:55 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Mar 17 09:04:05 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	8.493	305162555	4386.827	ug/L	m
Target Compounds						
1) T	Nitroglycerin	3.920	52186052	2496.964	ug/L	m
2) T	PETN	0.000	0	N.D.	ug/L	d

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] 03/17/17
03/29/17

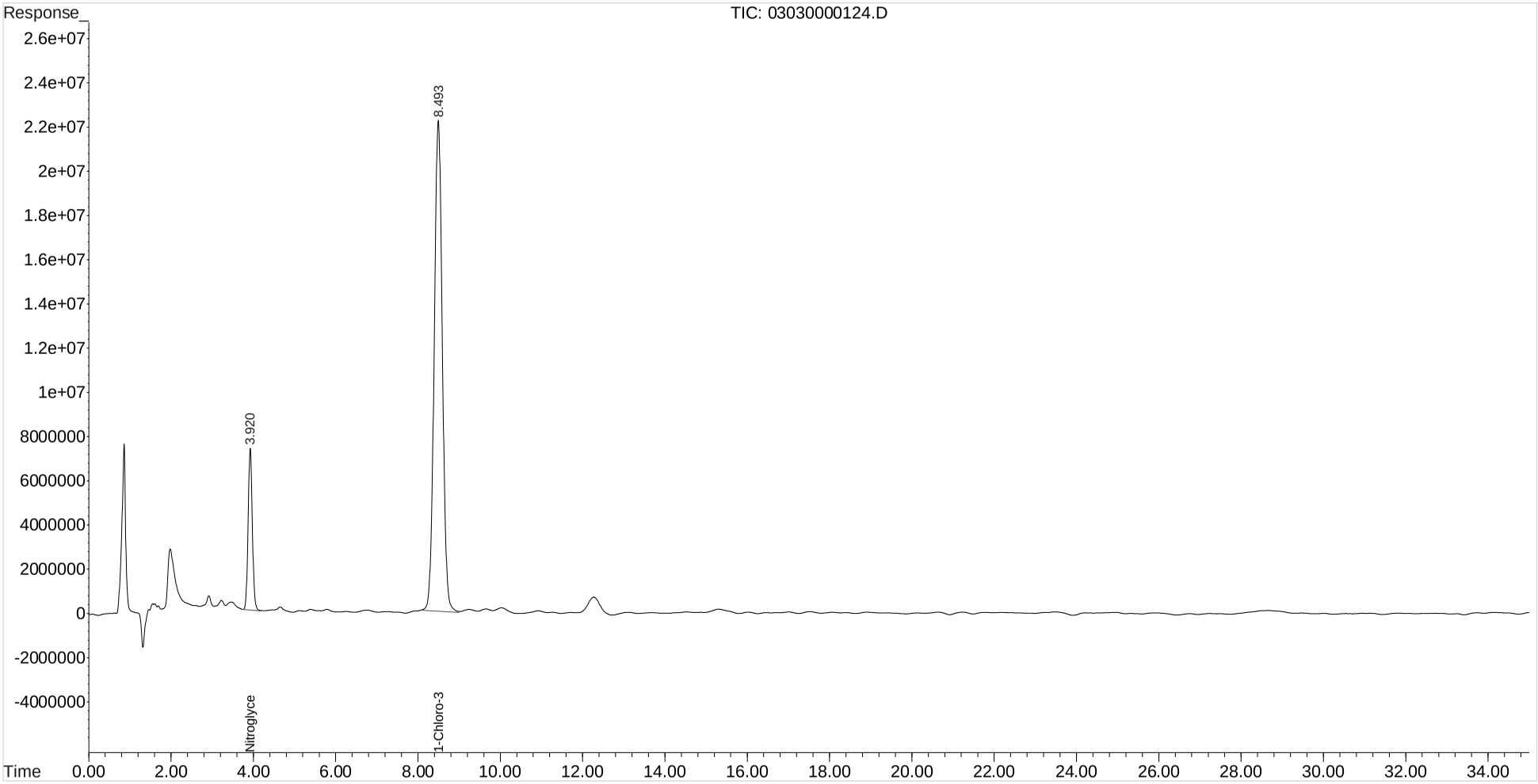
11/01/2018

Quantitation Report (QT Reviewed)

Data File : J:\LC08\DATA\030317_8330_210\03030000124.D Vial: 20
Signal(s) : DAD1B.ch
Acq On : 04-Mar-2017, 05:36:48 Operator: BR
Sample : K1701351-012 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 17 09:07:55 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Mar 17 09:04:05 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



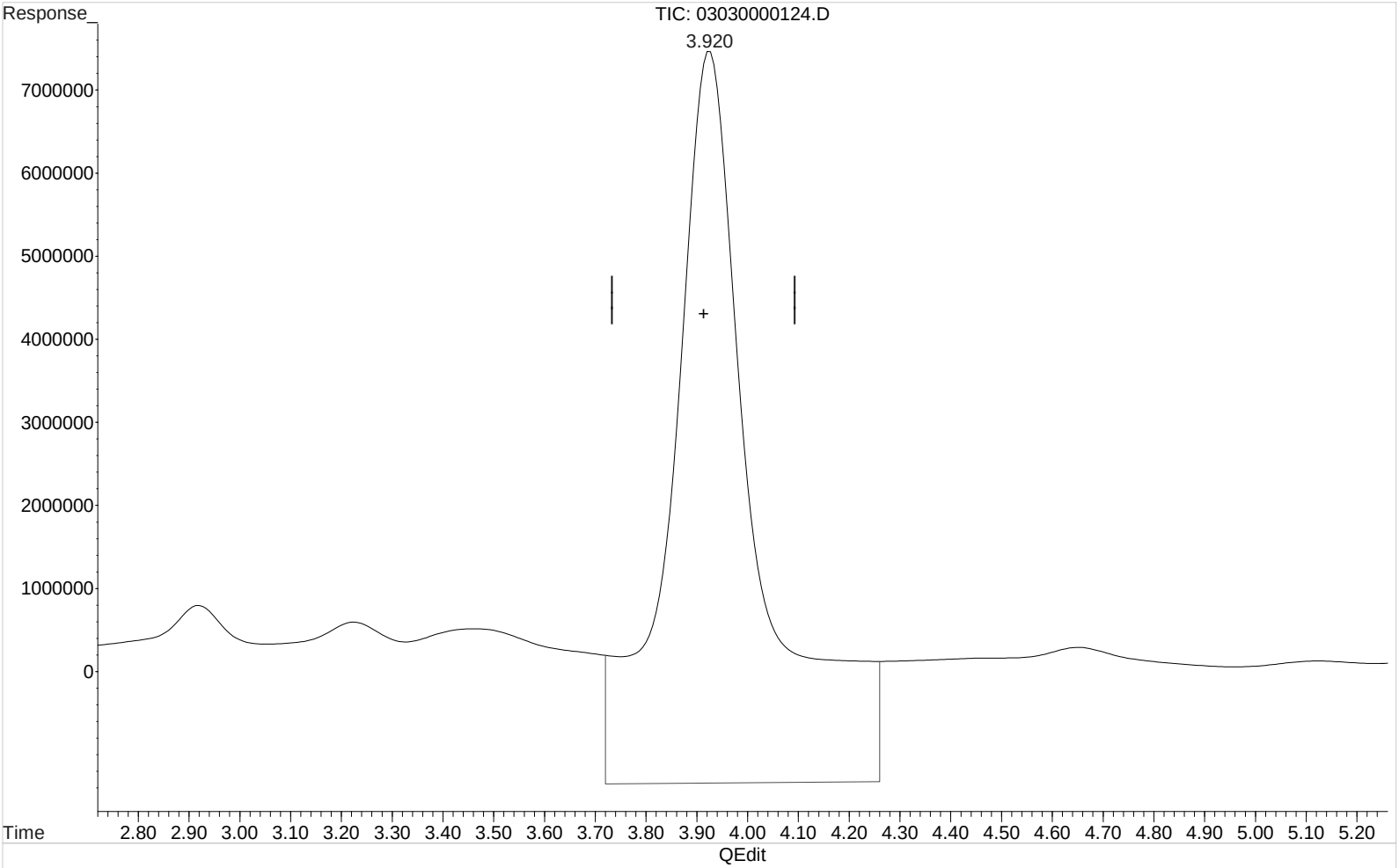
012170

Quantitation Report (Qedit)

Data File : J:\LC08\DATA\030317_8330_210\03030000124.D Vial: 20
Signal(s) : DAD1B.ch
Acq On : 04-Mar-2017, 05:36:48 Operator: BR
Sample : K1701351-012 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 17 09:04:31 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Mar 17 09:04:05 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.920min 4805.416 ug/L

response 100432247

Manual Integration:

Before

03/17/17

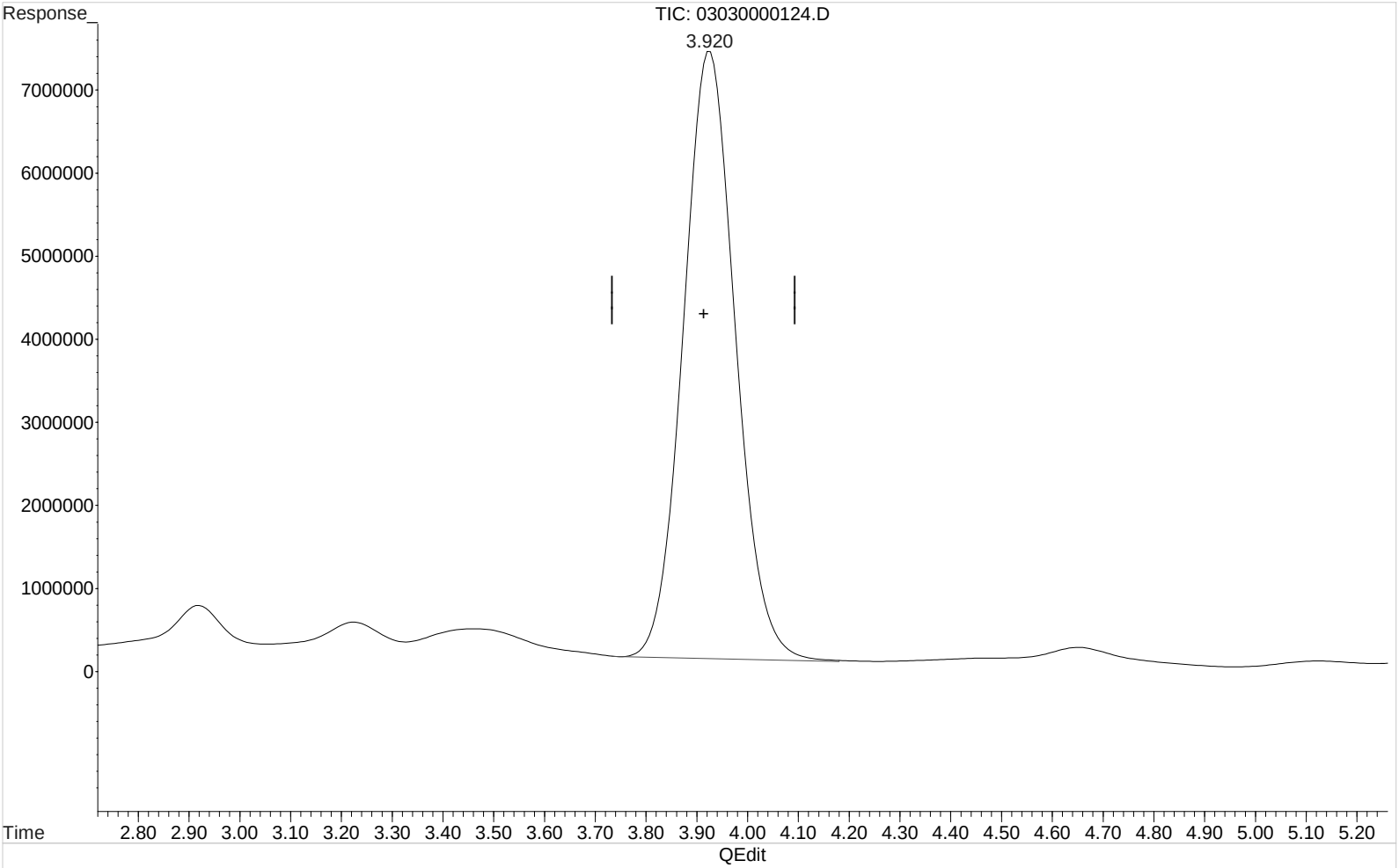
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\DATA\030317_8330_210\03030000124.D Vial: 20
Signal(s) : DAD1B.ch
Acq On : 04-Mar-2017, 05:36:48 Operator: BR
Sample : K1701351-012 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 17 09:04:31 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Mar 17 09:04:05 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.920min 2496.964 ug/L m

response 52186052

Manual Integration:

After

BLC

03/17/17

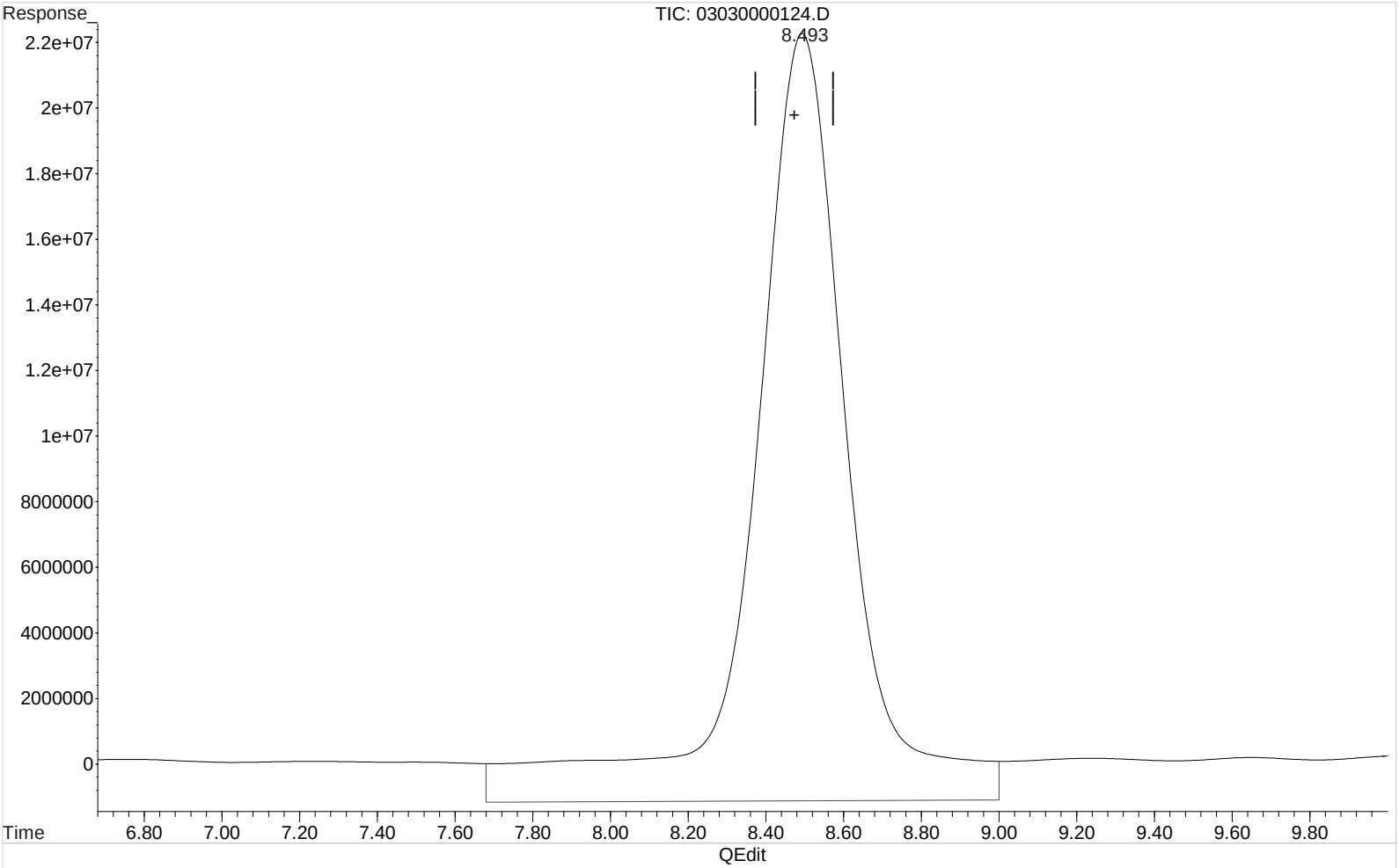
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\DATA\030317_8330_210\03030000124.D Vial: 20
Signal(s) : DAD1B.ch
Acq On : 04-Mar-2017, 05:36:48 Operator: BR
Sample : K1701351-012 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 17 09:04:31 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Mar 17 09:04:05 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.493min 5771.759 ug/L

response 401503058

Manual Integration:

Before

03/17/17

(+) = Expected Retention Time

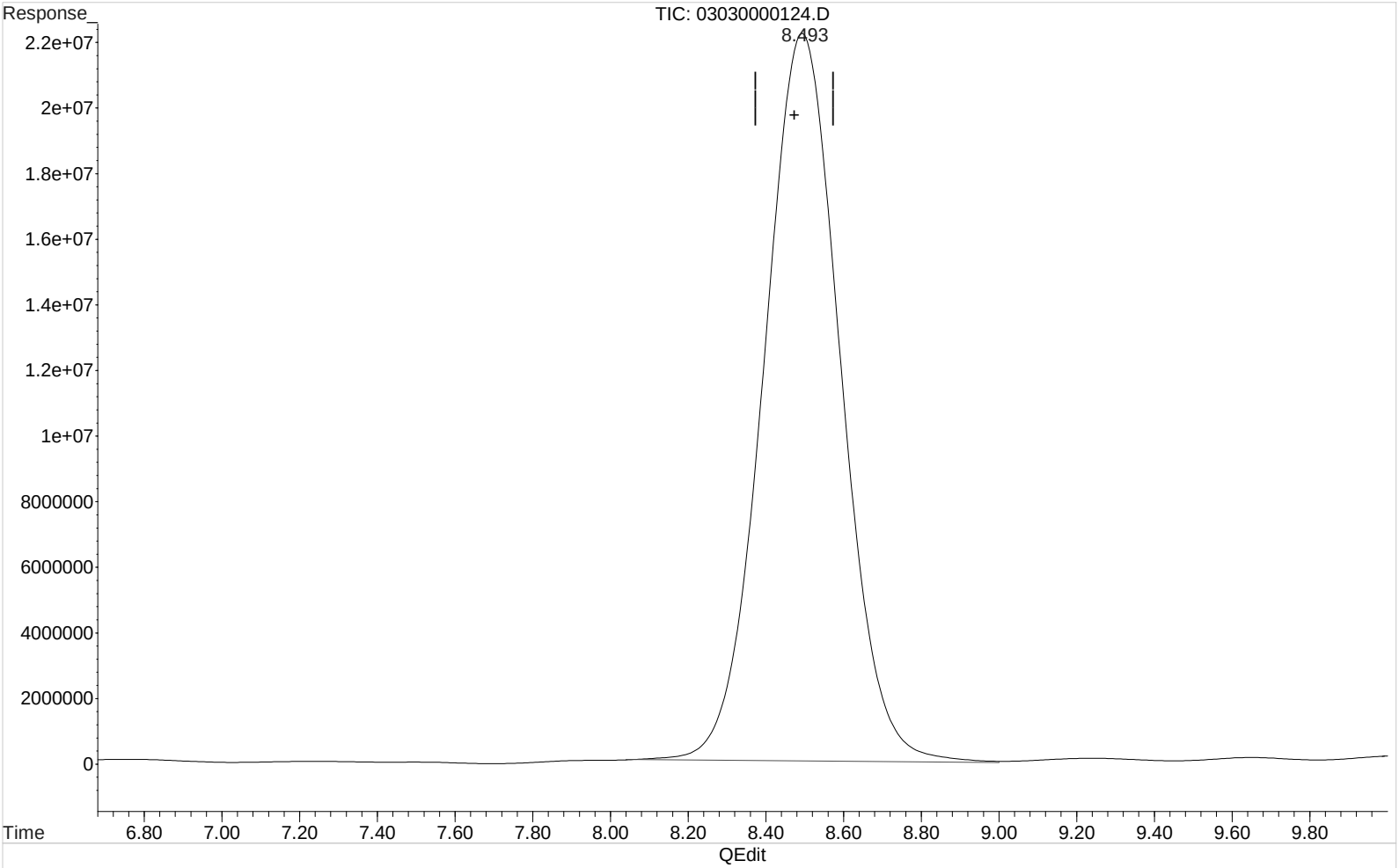
020917_Short_8330B@210.M Fri Mar 17 09:07:51 2017

Quantitation Report (Qedit)

Data File : J:\LC08\DATA\030317_8330_210\03030000124.D Vial: 20
Signal(s) : DAD1B.ch
Acq On : 04-Mar-2017, 05:36:48 Operator: BR
Sample : K1701351-012 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 17 09:04:31 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Mar 17 09:04:05 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.493min 4386.827 ug/L m

response 305162555

Manual Integration:

After

BLC

03/17/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC08\DATA\030317_8330_254\03030000124.
Lab ID: K1701351-012
RunType: SMPL
Matrix: SOIL

Date Acquired: 03/04/2017 05:36
Date Quantitated: 03/14/2017 10:41
Batch ID: KWG1701981
Analysis Method: 8330B
ListJoinID: LJ14468

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Retention Time	NA	NA	NA		x
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Retention Time	2,6-Dinitrotoluene	-0.78	NA	0.43	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC08\DATA\030317_8330_254\03030000124.D			**Instrument:**	LC08
Acqu Date:	03/04/2017 05:36	**Quant Date:**	03/10/2017 15:37	**Vial:**	20
Run Type:	SMPL	**ListJoinID:**	LJ15912	**Dilution:**	1.0
Lab ID:	K1701351-012			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/08/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701981	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587774	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC08\METHOD\020917_SHORT	**Calibration ID:**	CAL15192
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ15912
		Method ID:	MJ1432
MB Ref:	J:\LC10\DATA\030317_8330_254\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	8.49c	0.34	113884719	4,328	87	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0		0.0064	U	NR
RDX	2.92	0.07	1917893	103.11	0.082	J	NR
Nitrobenzene	4.65	0.04	2146287	57.69	0.046	J	NR
3,5-Dinitroaniline	5.46	0.05	2379338	51.19	0.062	U	NR
4-Amino-2,6-dinitrotoluene	5.10	0.06	97528**m**	3.06	0.0051	U	
2-Nitrotoluene			0		0.0071	U	NR
2-Amino-4,6-dinitrotoluene	6.76	0.16	3067575	72.71	0.058		NR
3-Nitrotoluene	7.27	0.02	1289895	46.16	0.037	J	NR
1,3-Dinitrobenzene	9.27	0.01	2254632	40.30	0.032	J	NR
4-Nitrotoluene	8.49c	0.34	113884719	4,886	3.9		NR
2,6-Dinitrotoluene	8.49c	0.02	113884719	4,654	3.7		NR
2,4-Dinitrotoluene	14.57	14.57	1645716	31.29	0.041	U	NR
TETRYL			0		0.041	U	NR
1,3,5-Trinitrobenzene			0		0.027	U	NR
2,4,6-Trinitrotoluene	20.45	-0.18	728195	18.77	0.018	U	NR

Prep Amount:	10.090 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99.3 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\030317_8330_254\03030000124.D Vial: 20
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 05:36:48 Operator: BR
Sample : K1701351-012 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 14 10:41:29 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
11)	S	1-Chloro-3-Nitrobenzene	8.493f	113884719	4327.574	ug/L	
		Target Compounds					
1)	T	HMX	0.000	0	N.D.	ug/L	
2)	T	RDX	2.920f	718775	38.642	ug/L	m
3)	T	Nitrobenzene	4.647	2146287	57.691	ug/L	
4)	T	3,5-Dinitroaniline	5.460	2379338	51.186	ug/L	
5)	T	4-Amino-2,6-DNT	5.100	97528	3.062	ug/L	m
6)	T	2-NT	0.000	0	N.D.	ug/L	
7)	T	2-Amino-4,6-DNT	6.760	3067575	72.711	ug/L	
8)	T	3-NT	7.267	1289895	46.161	ug/L	
9)	T	1,3-DNB	9.267f	2254632	40.298	ug/L	
10)	T	4-NT	8.493f	113884719	4885.503	ug/L	
12)	T	2,6-DNT	8.493	113884719	4654.031	ug/L	
13)	T	2,4-DNT	14.573f	1645716	31.285	ug/L	
14)	T	Tetryl	0.000	0	N.D.	ug/L	
15)	T	1,3,5-TNB	0.000	0	N.D.	ug/L	
16)	T	2,4,6-TNT	20.453f	728195	18.767	ug/L	

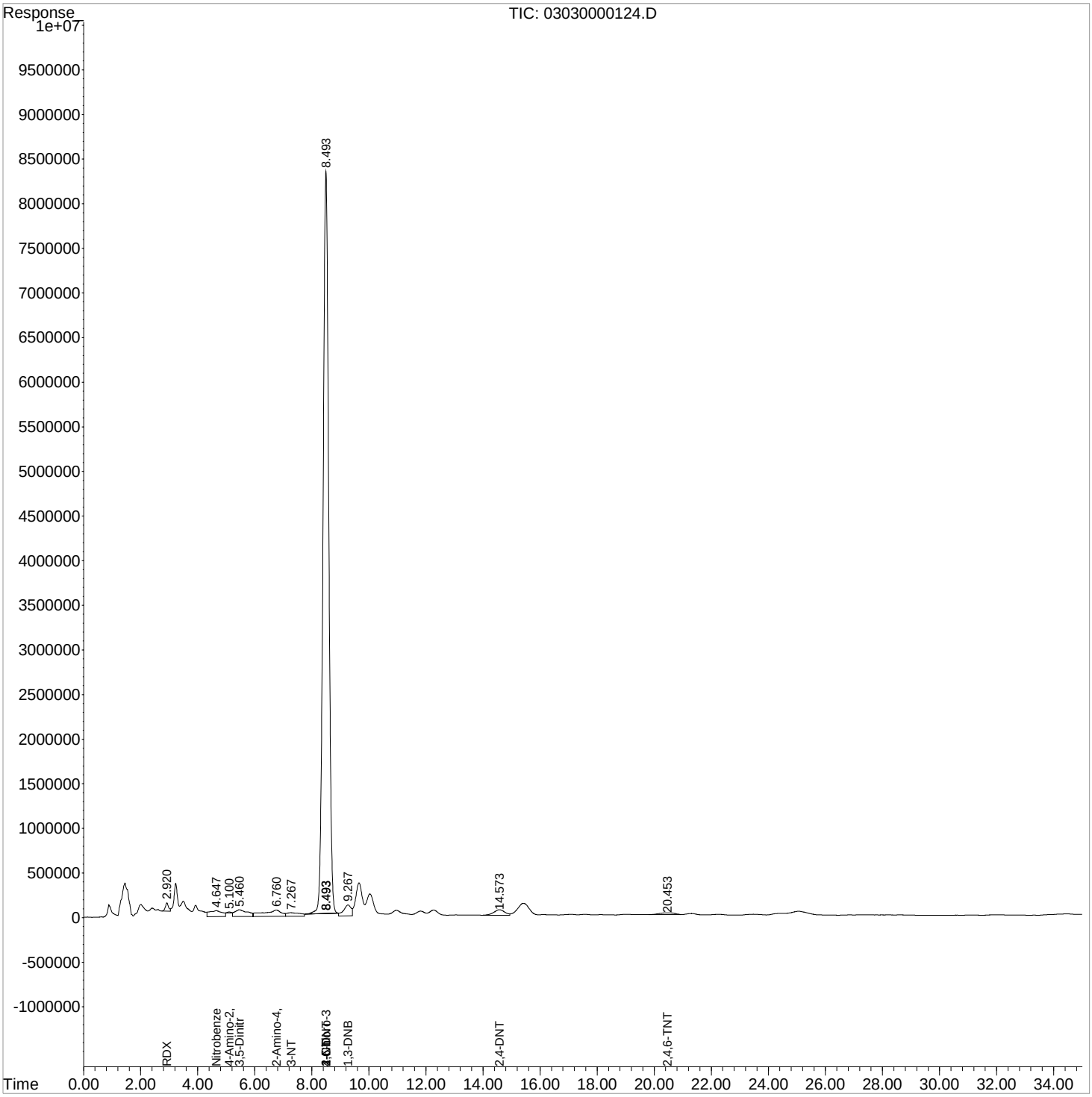
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\030317_8330_254\03030000124.D Vial: 20
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 05:36:48 Operator: BR
Sample : K1701351-012 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 14 10:41:29 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

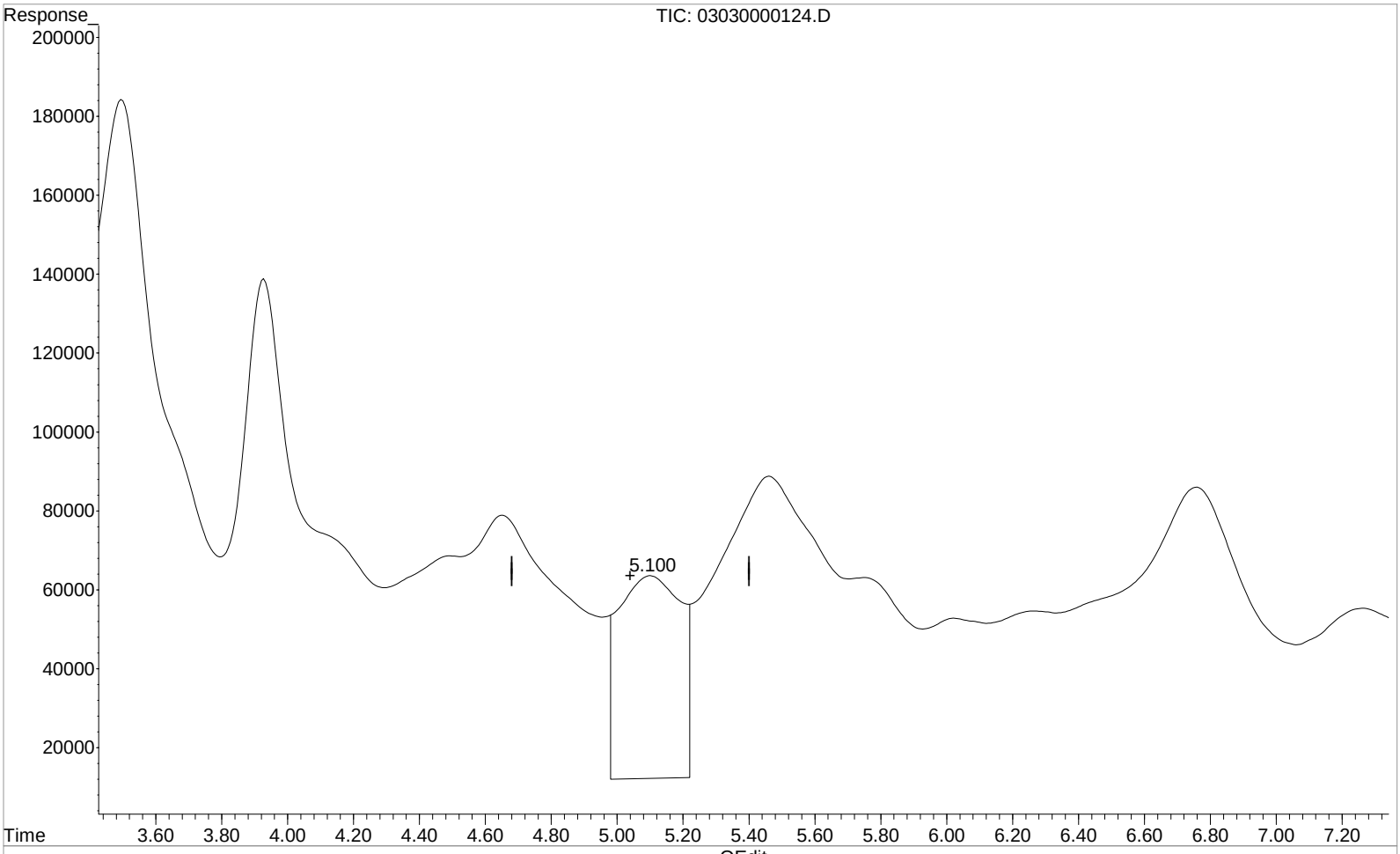


Quantitation Report (Qedit)

Data File : J:\LC08\Data\030317_8330_254\03030000124.D Vial: 20
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 05:36:48 Operator: BR
Sample : K1701351-012 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 15:29:14 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(5) 4-Amino-2,6-DNT (T)

5.100min 21.361 ug/L

response 680436

Manual Integration:

Before

03/10/17

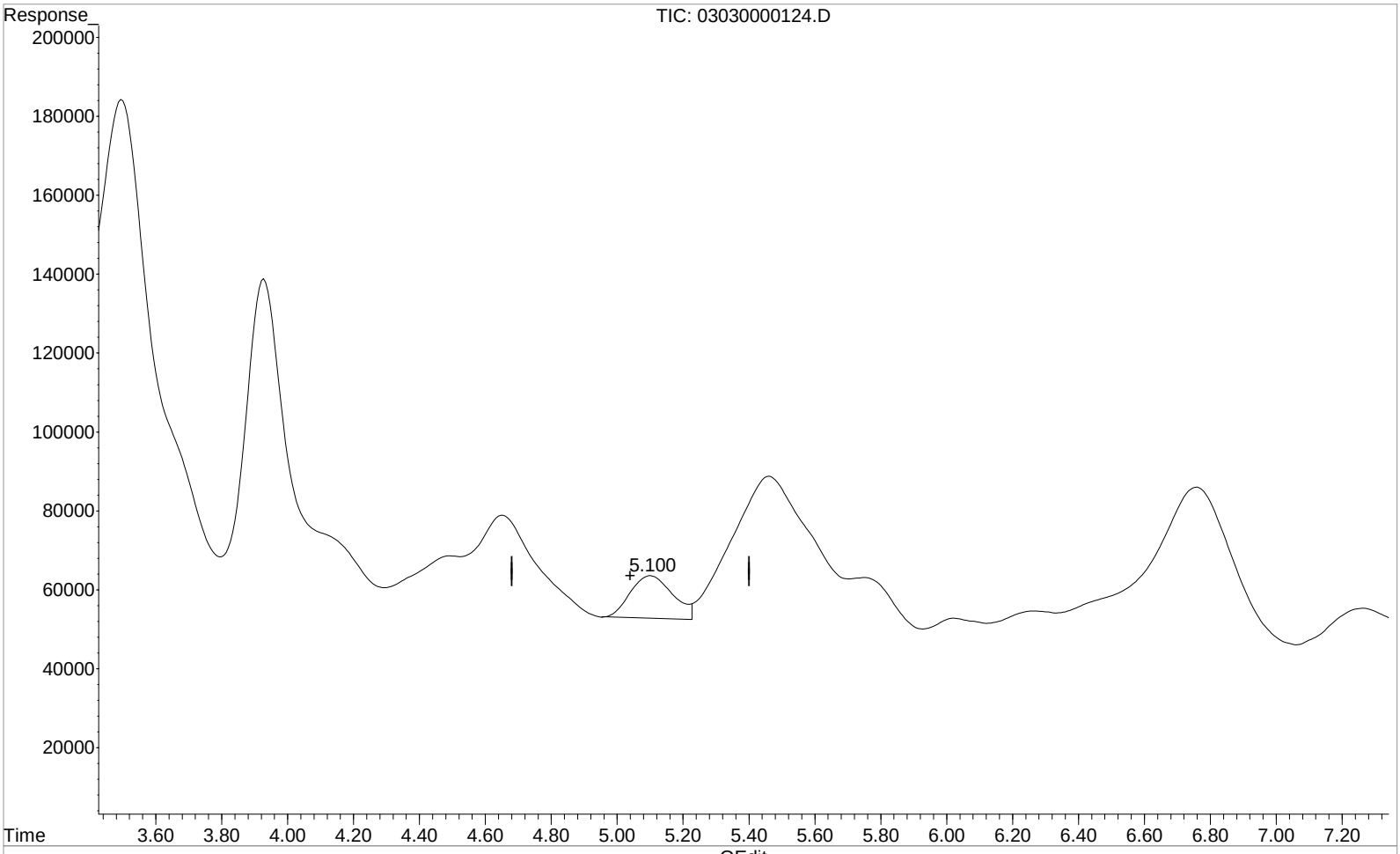
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\030317_8330_254\03030000124.D Vial: 20
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 05:36:48 Operator: BR
Sample : K1701351-012 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 15:29:14 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(5) 4-Amino-2,6-DNT (T)

5.100min 3.062 ug/L m

response 97528

Manual Integration:

After

BLC

03/10/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000225.
Lab ID: K1701351-013
RunType: SMPL
Matrix: SOIL

Date Acquired: 03/03/2017 02:29
Date Quantitated: 03/10/2017 09:46
Batch ID: KWG1701858
Analysis Method: 8330B
ListJoinID: LJ15912

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000225.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 02:29	**Quant Date:**	03/10/2017 09:46	**Vial:**	21
Run Type:	SMPL	**ListJoinID:**	LJ14468	**Dilution:**	1.0
Lab ID:	K1701351-013			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/08/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701858	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587775	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ14468
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_254\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.62	-0.05	93565536	4,330	87	34-135	OK	

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX	4.65	-0.11	17196**m**	1.44	0.0065	U	
RDX	8.34	0.01	1819006	91.59	0.074	JC	
1,3,5-Trinitrobenzene			0**d**		0.028	U	
1,3-Dinitrobenzene			0**d**		0.013	U	
TETRYL	15.43	-0.07	31361**m**	0.9390	0.042	U	
Nitrobenzene			0		0.0045	U	
2,4,6-Trinitrotoluene	17.31	-0.04	668674**m**	16.05	0.019	U	
4-Amino-2,6-dinitrotoluene			0		0.0052	U	
2-Amino-4,6-dinitrotoluene			0		0.0076	U	
2,6-Dinitrotoluene			0		0.0052	U	
2,4-Dinitrotoluene	22.10	-0.07	1117336**m**	18.86	0.042	U	
2-Nitrotoluene			0		0.0072	U	
4-Nitrotoluene			0		0.019	U	
3-Nitrotoluene	27.06	-0.30	493866**m**	24.53	0.020	J	

Prep Amount:	10.026 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	98.8 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000225.D Vial: 21
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 02:29:41 Operator: BR
Sample : K1701351-013 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 09:46:43 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
18)	S	1-Chloro-3-Nitrobenzene	29.619	93565536	4329.898	ug/L	
		Target Compounds					
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	4.652f	17196	1.436	ug/L	m
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	8.339	1819006	91.590	ug/L	
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L	d
6)	T	1,3-DNB	0.000	0	N.D.	ug/L	d
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L	
8)	T	Tetryl	15.425	31361	0.939	ug/L	m
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L	
10)	T	2,4,6-TNT	17.312	668674	16.053	ug/L	m
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L	
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L	
13)	T	2,6-DNT	0.000	0	N.D.	ug/L	
14)	T	2,4-DNT	22.099	1117336	18.863	ug/L	m
15)	T	2-NT	0.000	0	N.D.	ug/L	
16)	T	4-NT	0.000	0	N.D.	ug/L	
17)	T	3-NT	27.059	493866	24.526	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

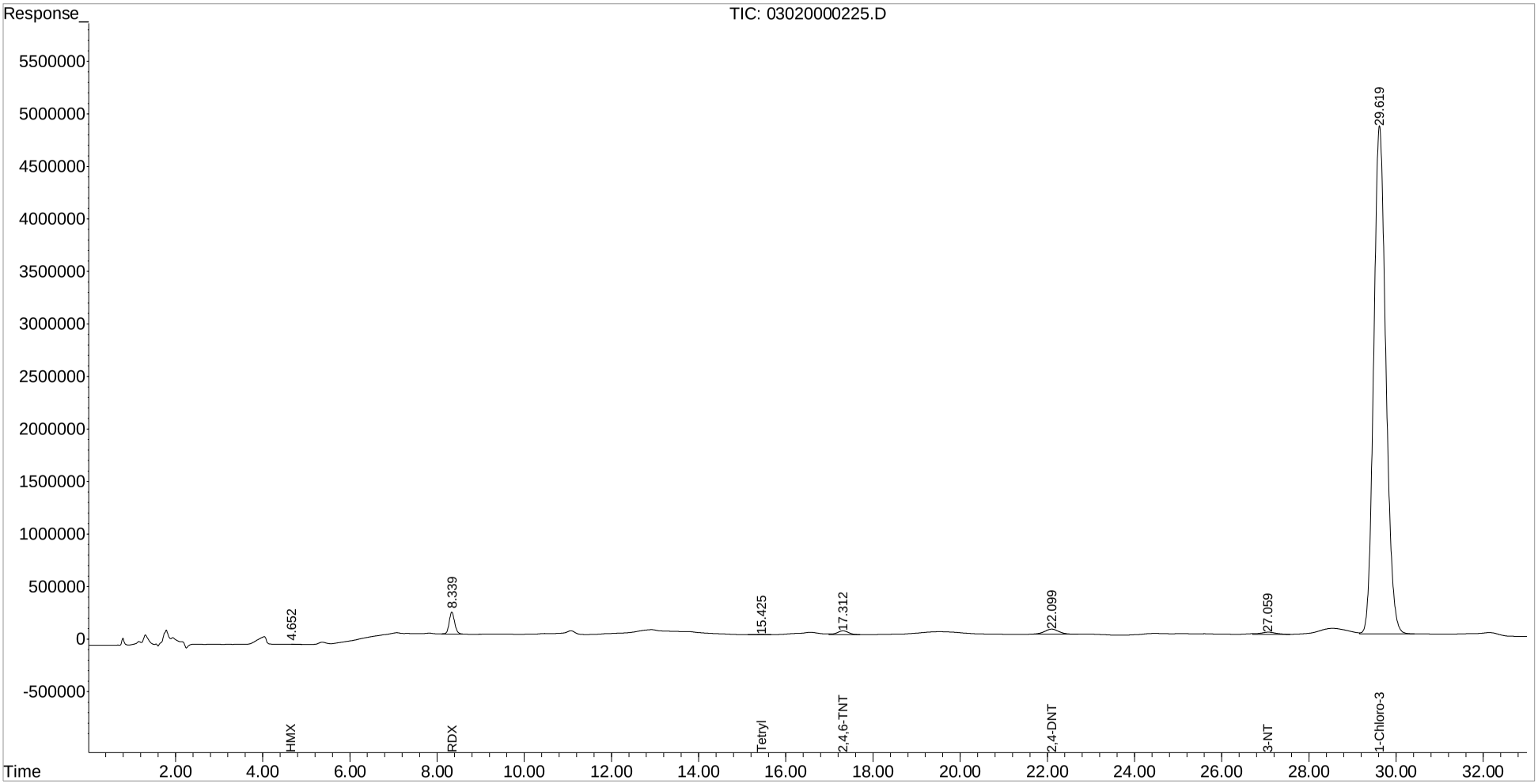
Quantitation Report (QT Reviewed)

(b) (6) 03/14/17
03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000225.D Vial: 21
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 02:29:41 Operator: BR
Sample : K1701351-013 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 09:46:43 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

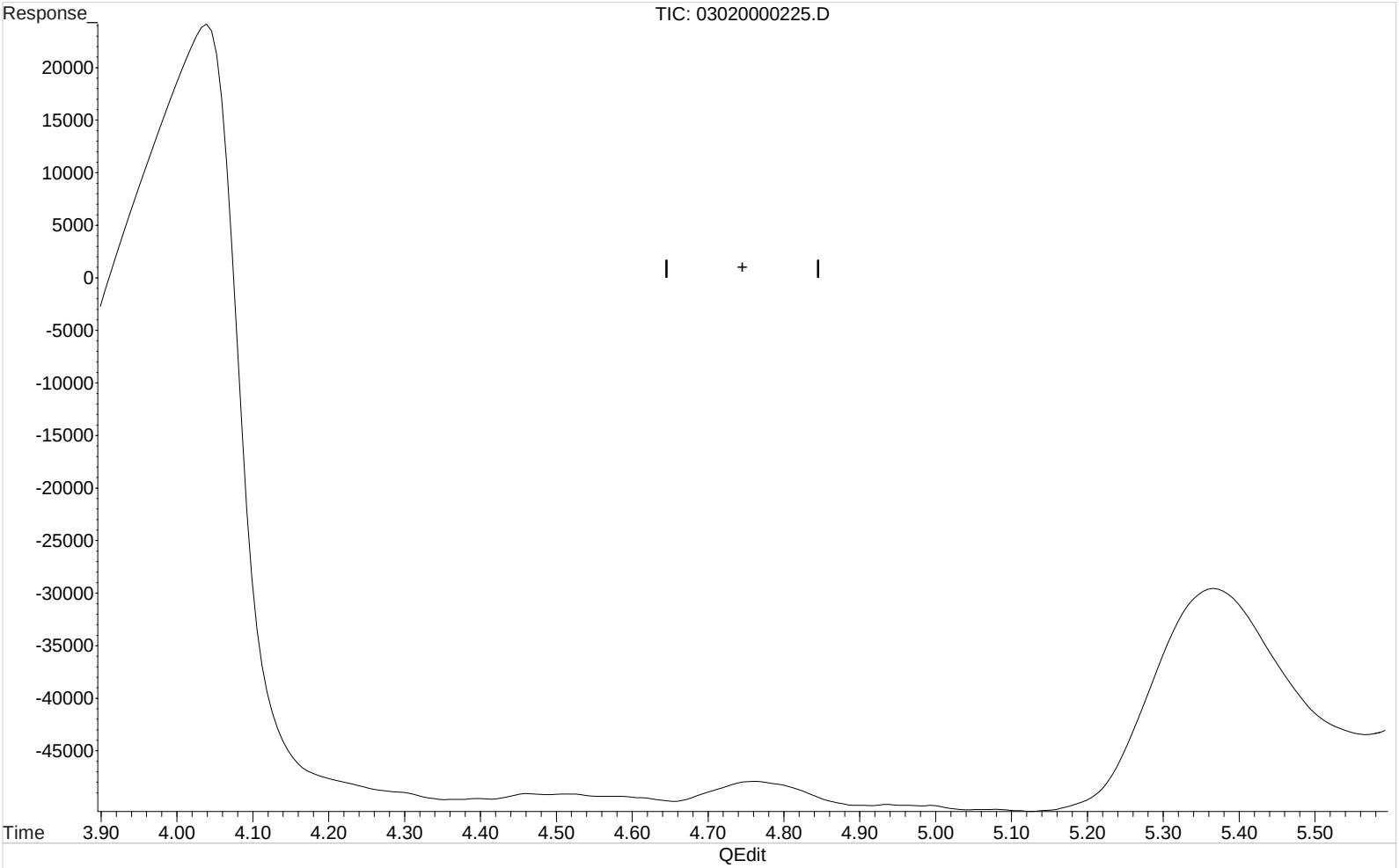


Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000225.D Vial: 21
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 02:29:41 Operator: BR
Sample : K1701351-013 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:44:01 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(2) HMX (T)

4.745min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

(+) = Expected Retention Time

(b) (6)

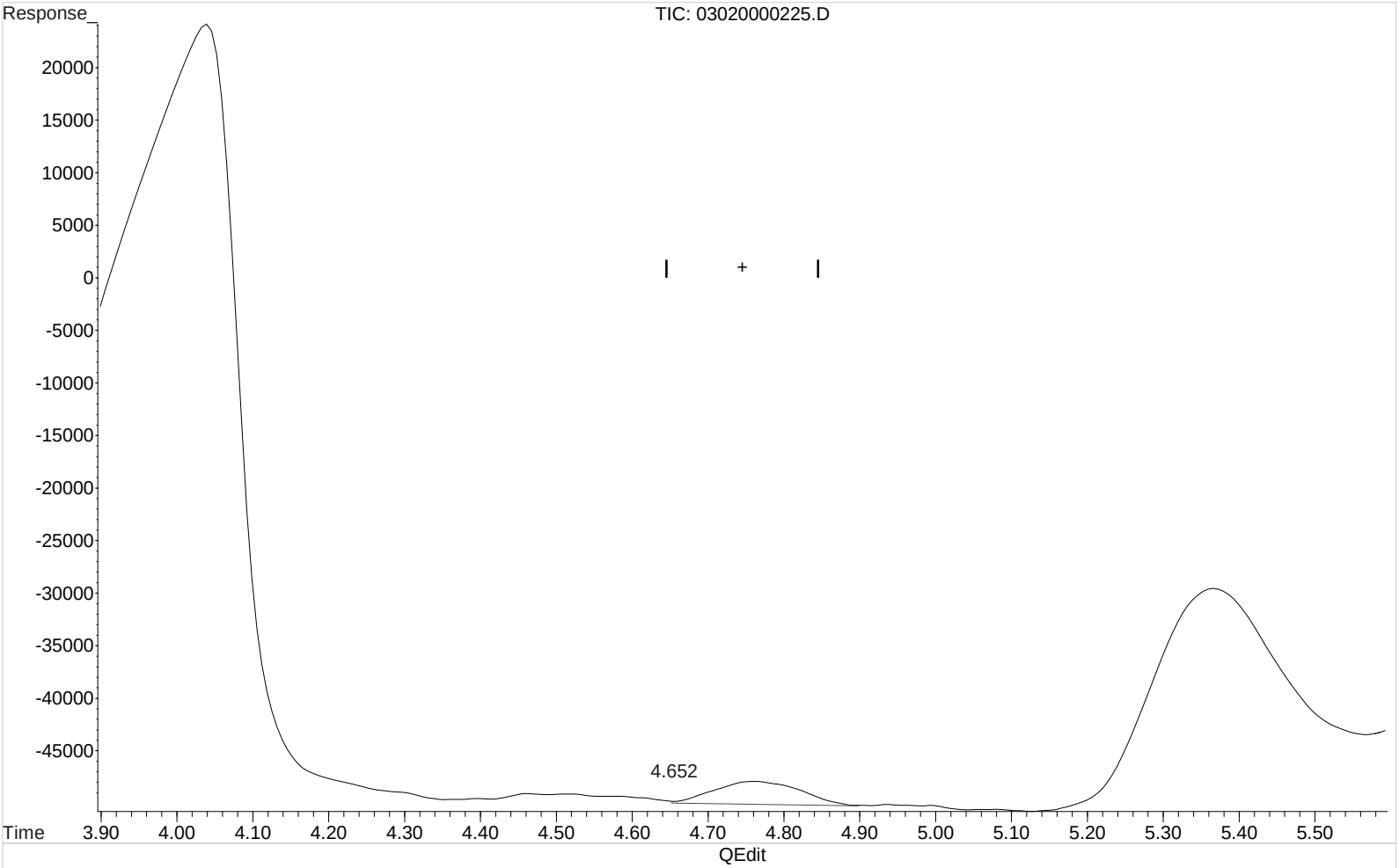
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000225.D Vial: 21
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 02:29:41 Operator: BR
Sample : K1701351-013 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:44:01 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(2) HMX (T)

4.652min 1.436 ug/L m

response 17196

Manual Integration:

After

BLC

03/08/17

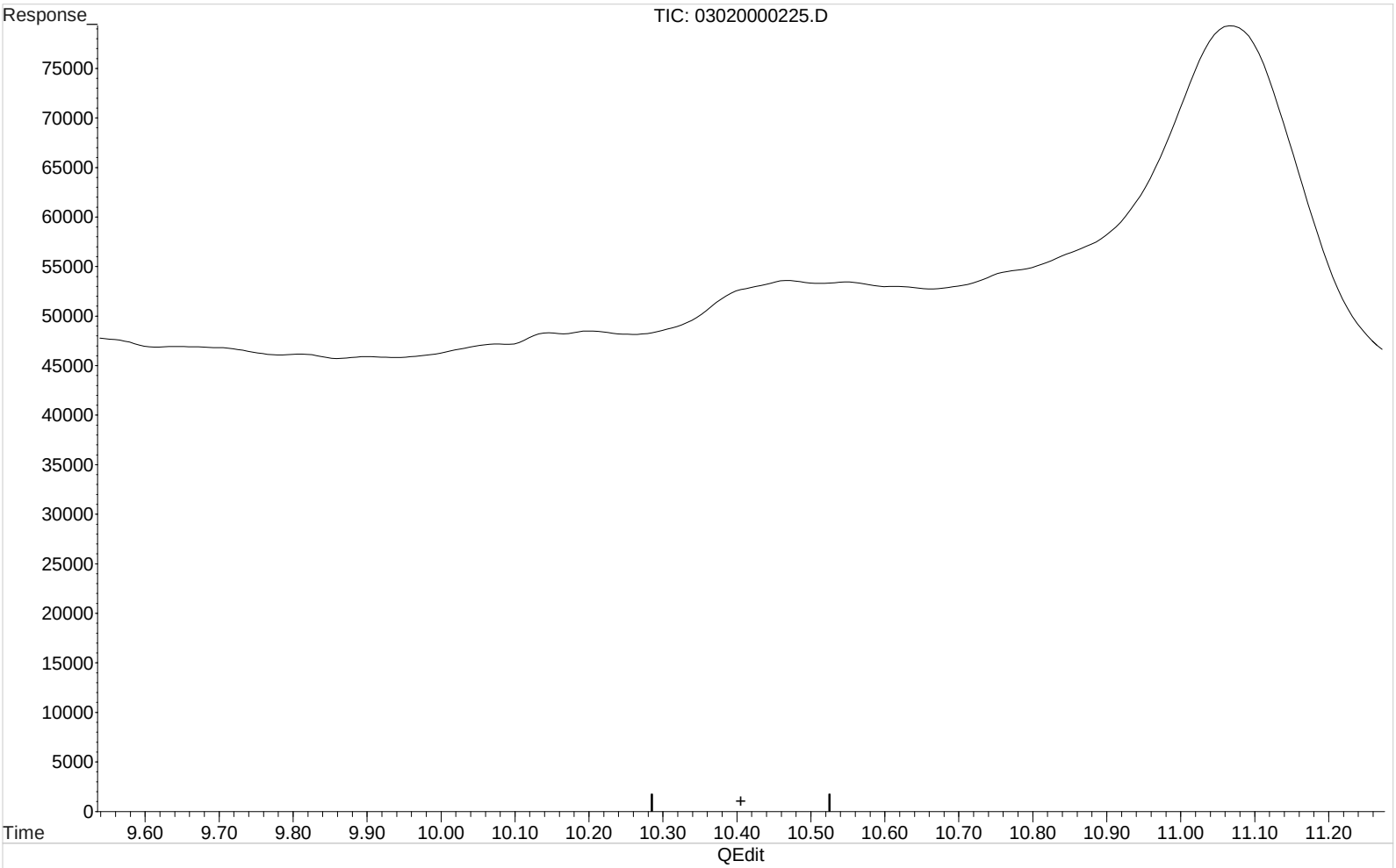
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000225.D Vial: 21
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 02:29:41 Operator: BR
Sample : K1701351-013 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:44:01 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(5) 1,3,5-TNB (T)

10.405min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

(+) = Expected Retention Time

(b) (6)

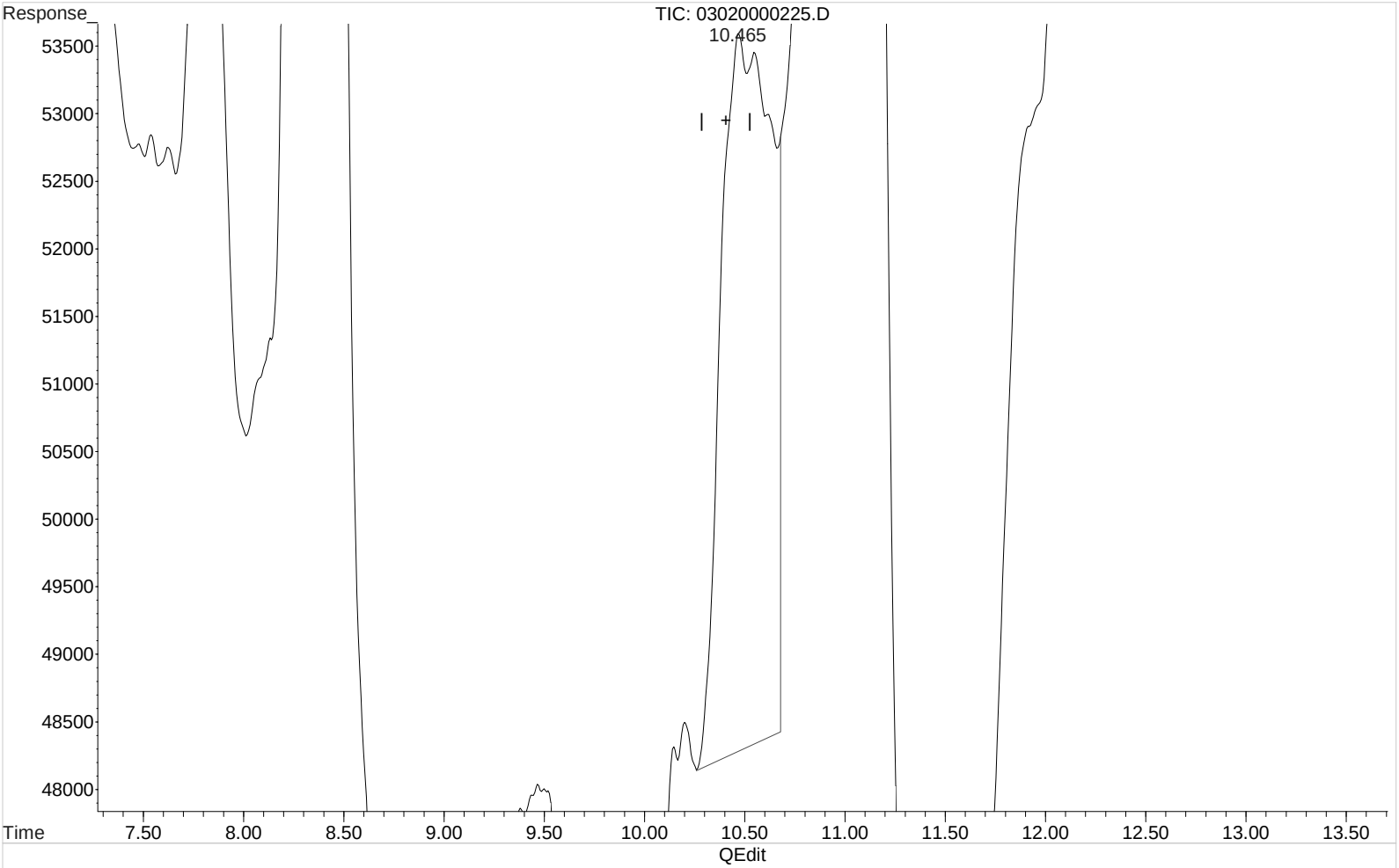
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000225.D Vial: 21
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 02:29:41 Operator: BR
Sample : K1701351-013 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:44:01 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(5) 1,3,5-TNB (T)

10.465min 2.120 ug/L m

response 94703

Manual Integration:

After

BLC

03/08/17

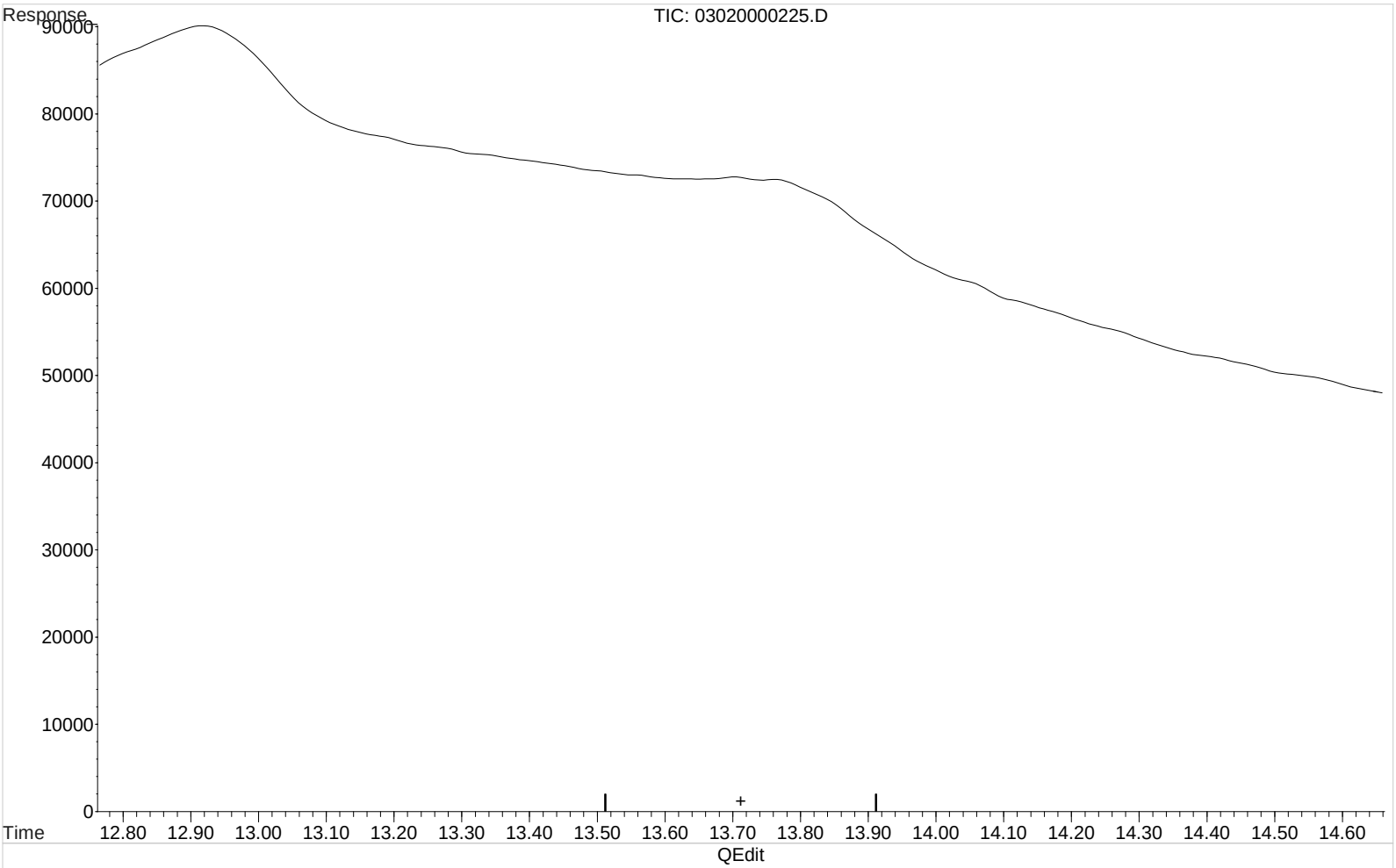
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000225.D Vial: 21
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 02:29:41 Operator: BR
Sample : K1701351-013 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:44:01 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(6) 1,3-DNB (T)

13.712min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

(+) = Expected Retention Time

(b) (6)

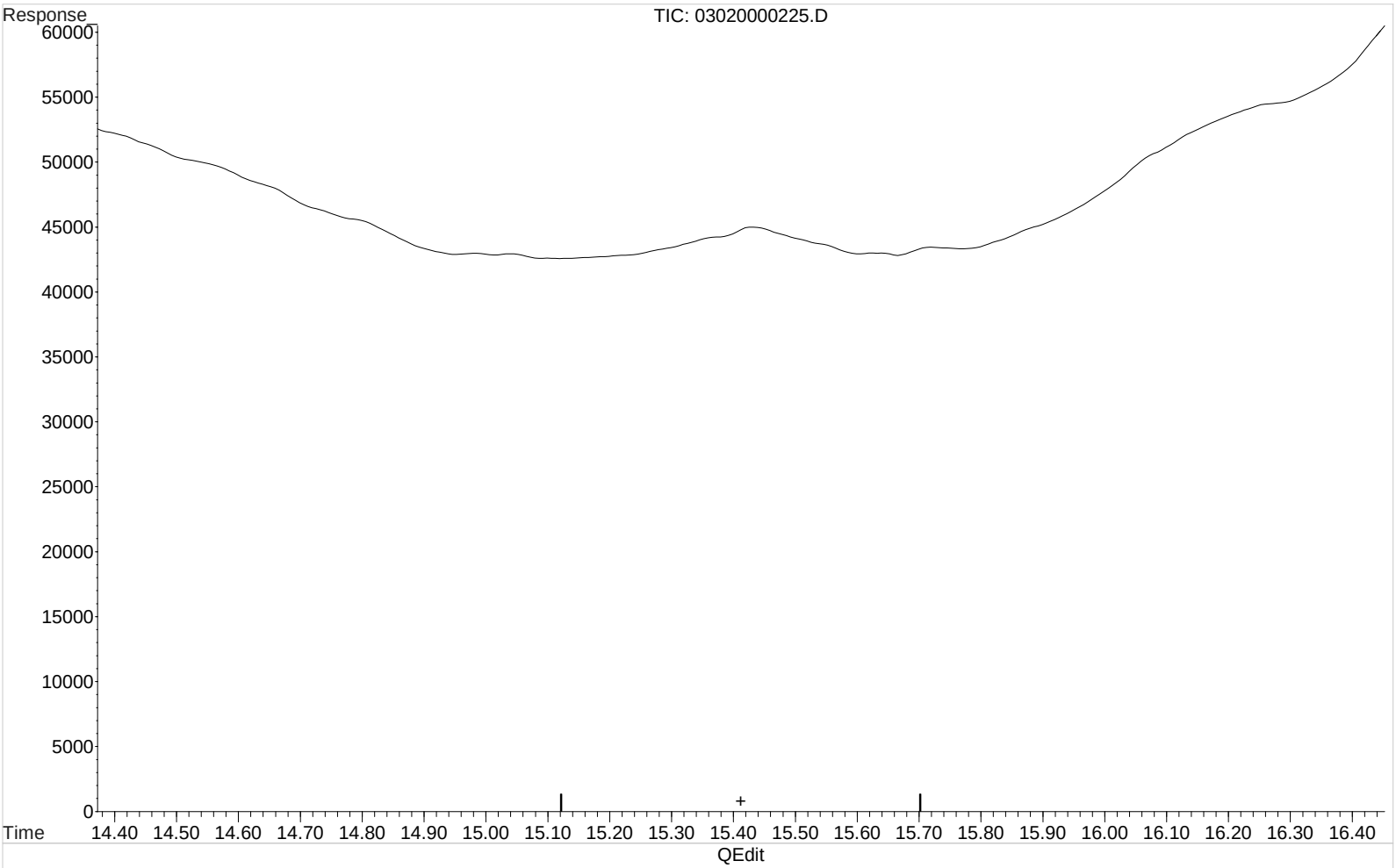
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000225.D Vial: 21
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 02:29:41 Operator: BR
Sample : K1701351-013 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:44:01 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.412min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

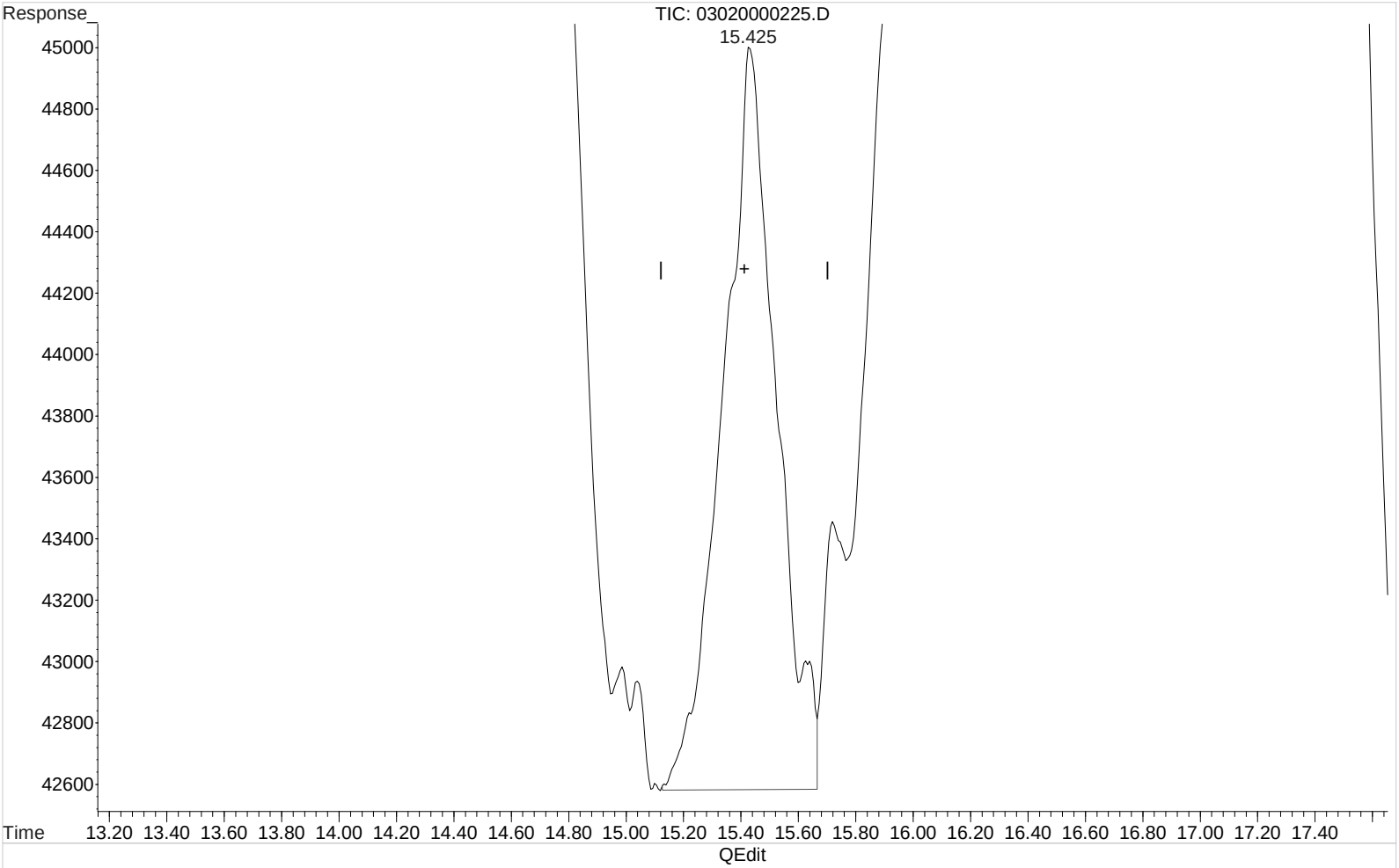
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000225.D Vial: 21
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 02:29:41 Operator: BR
Sample : K1701351-013 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:44:01 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.425min 0.939 ug/L m

response 31361

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000225.
Lab ID: K1701351-013
RunType: SMPL
Matrix: SOIL

Date Acquired: 03/03/2017 02:29
Date Quantitated: 03/08/2017 13:53
Batch ID: KWG1701860
Analysis Method: 8330B
ListJoinID: LJ15912

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000225.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 02:29	**Quant Date:**	03/08/2017 13:53	**Vial:**	21
Run Type:	SMPL	**ListJoinID:**	LJ14468	**Dilution:**	1.0
Lab ID:	K1701351-013			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/08/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587775	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ14468
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_210\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.62	-0.05	247360696	4,350	87	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.51	-0.03	1307632**m**	62.73	0.059	U	
Pentaerythritol Tetranitrate	27.67	-0.04	558946**m**	31.77	0.12	U	

Prep Amount:	10.026 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	98.8 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000225.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 02:29	**Quant Date:**	03/08/2017 13:53	**Vial:**	21
Run Type:	SMPL	**ListJoinID:**	LJ15912	**Dilution:**	1.0
Lab ID:	K1701351-013			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/08/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587775	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ15912
		Method ID:	MJ1432
MB Ref:	J:\LC10\DATA\030317_8330_210\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.62	-0.05	247360696	4,350	87	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.51	-0.03	1307632**m**	62.73	0.059	U	
Pentaerythritol Tetranitrate	27.67	-0.04	558946**m**	31.77	0.12	U	

Prep Amount:	10.026 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	98.8 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000225.D Vial: 21
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 02:29:41 Operator: BR
Sample : K1701351-013 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 13:53:37 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.619	247360696	4350.205	ug/L	
Target Compounds						
1) T	Nitroglycerin	16.512	1307632	62.726	ug/L	m
2) T	PETN	27.672	558946	31.766	ug/L	m

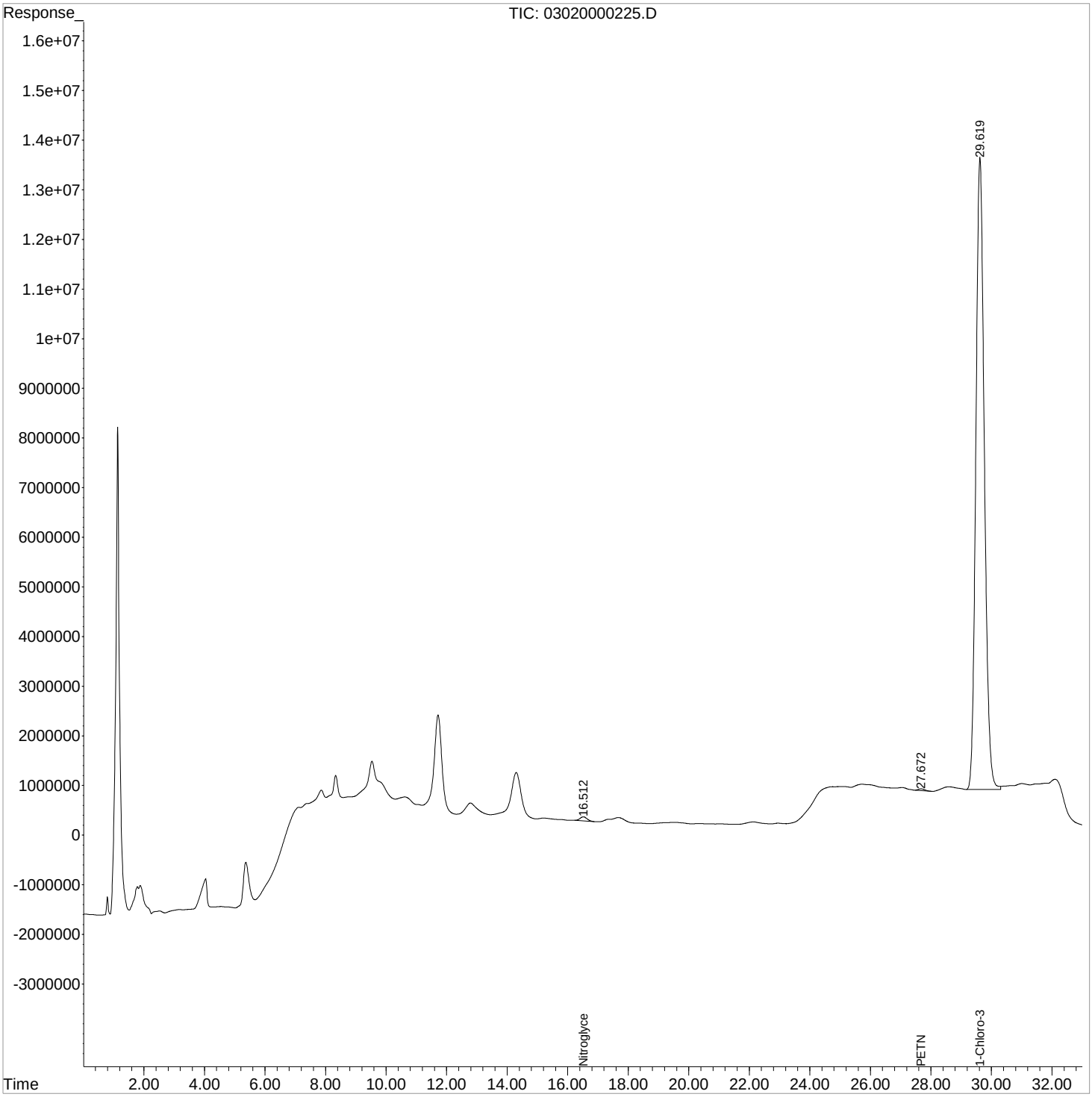
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000225.D Vial: 21
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 02:29:41 Operator: BR
Sample : K1701351-013 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 13:53:37 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

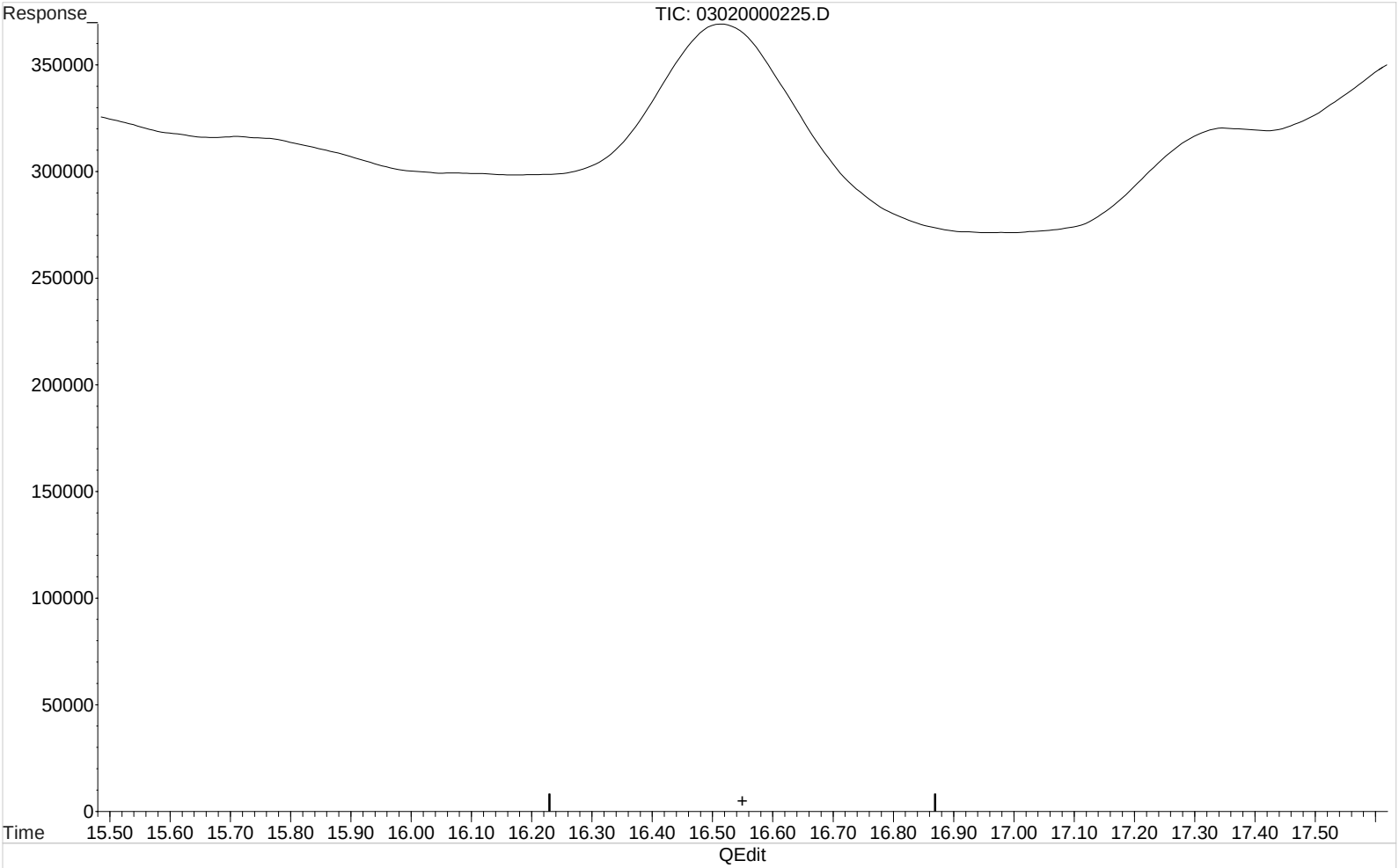


Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000225.D Vial: 21
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 02:29:41 Operator: BR
Sample : K1701351-013 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:48:05 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

0.000min 0.000 ug/L d

response 0

Manual Integration:

Before

03/08/17

(+) = Expected Retention Time

(b) (6)

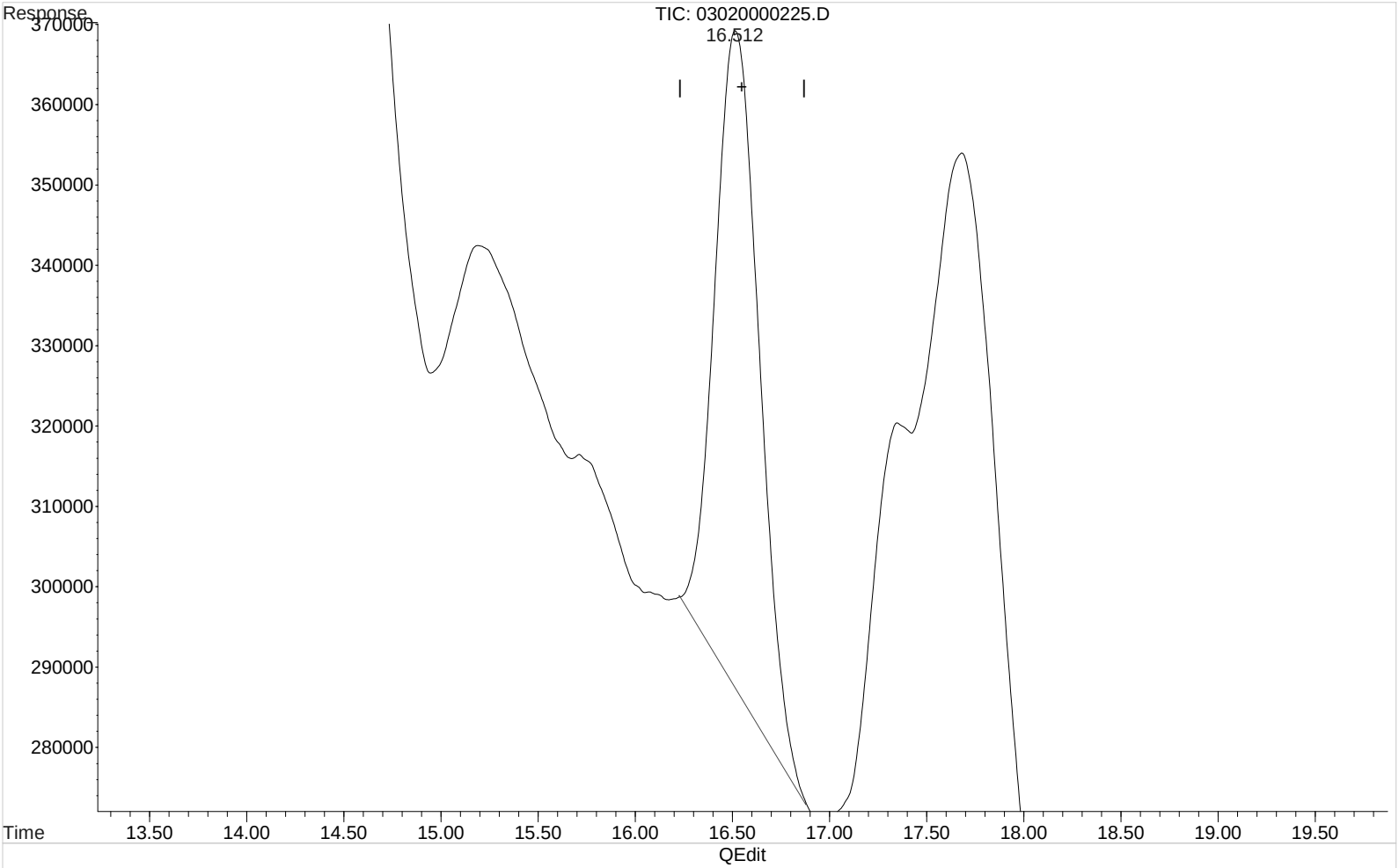
3/14/17

3/29/17

Data File : J:\LC10\Data\030317_8330_210\03020000225.D Vial: 21
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 02:29:41 Operator: BR
Sample : K1701351-013 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:48:05 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.512min 62.726 ug/L m

response 1307632

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

(b) (6)

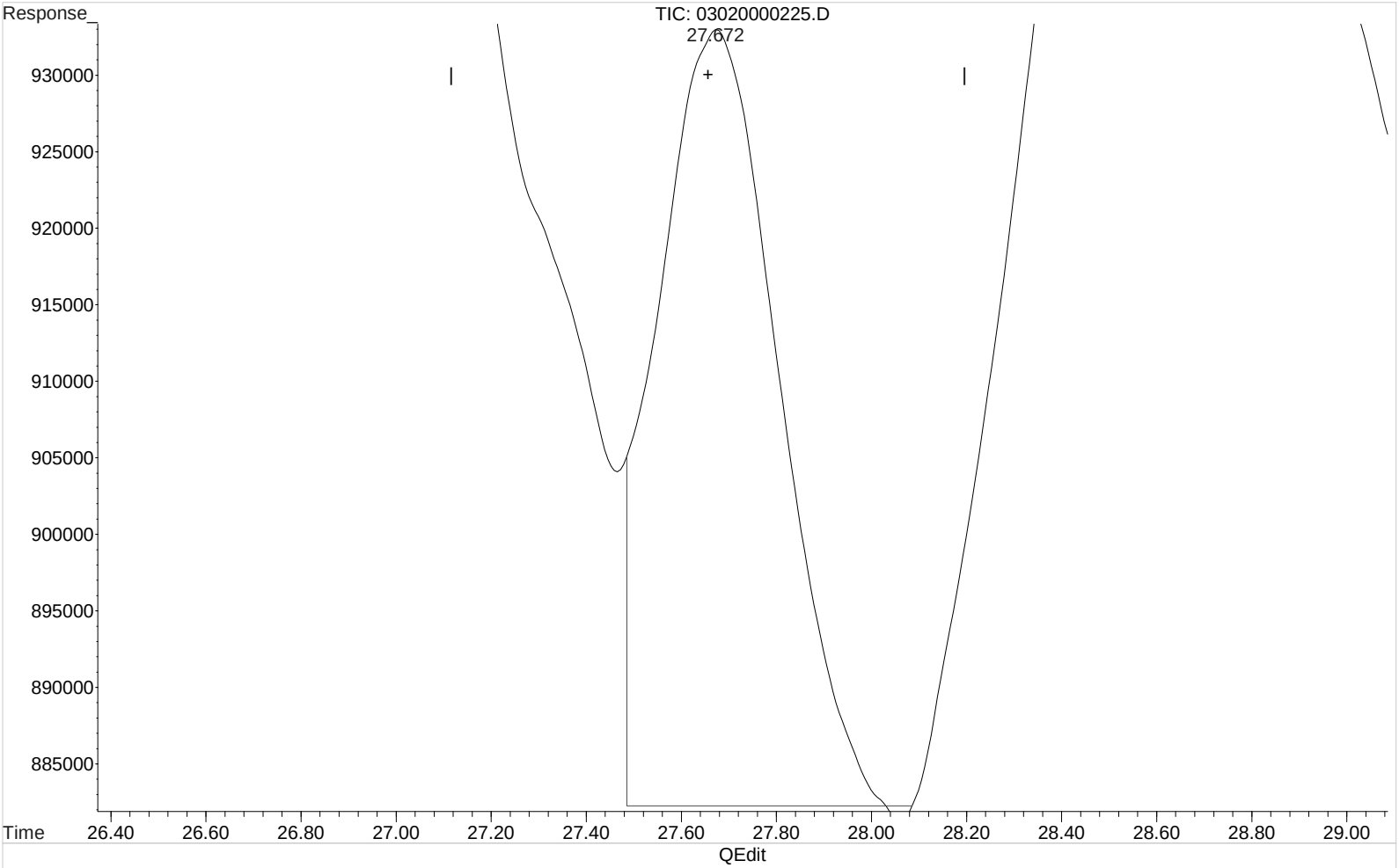
3/14/17

3/29/17

Data File : J:\LC10\Data\030317_8330_210\03020000225.D Vial: 21
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 02:29:41 Operator: BR
Sample : K1701351-013 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:48:05 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.672min 50.589 ug/L

response 890143

Manual Integration:

Before

03/08/17

(+) = Expected Retention Time

(b) (6)

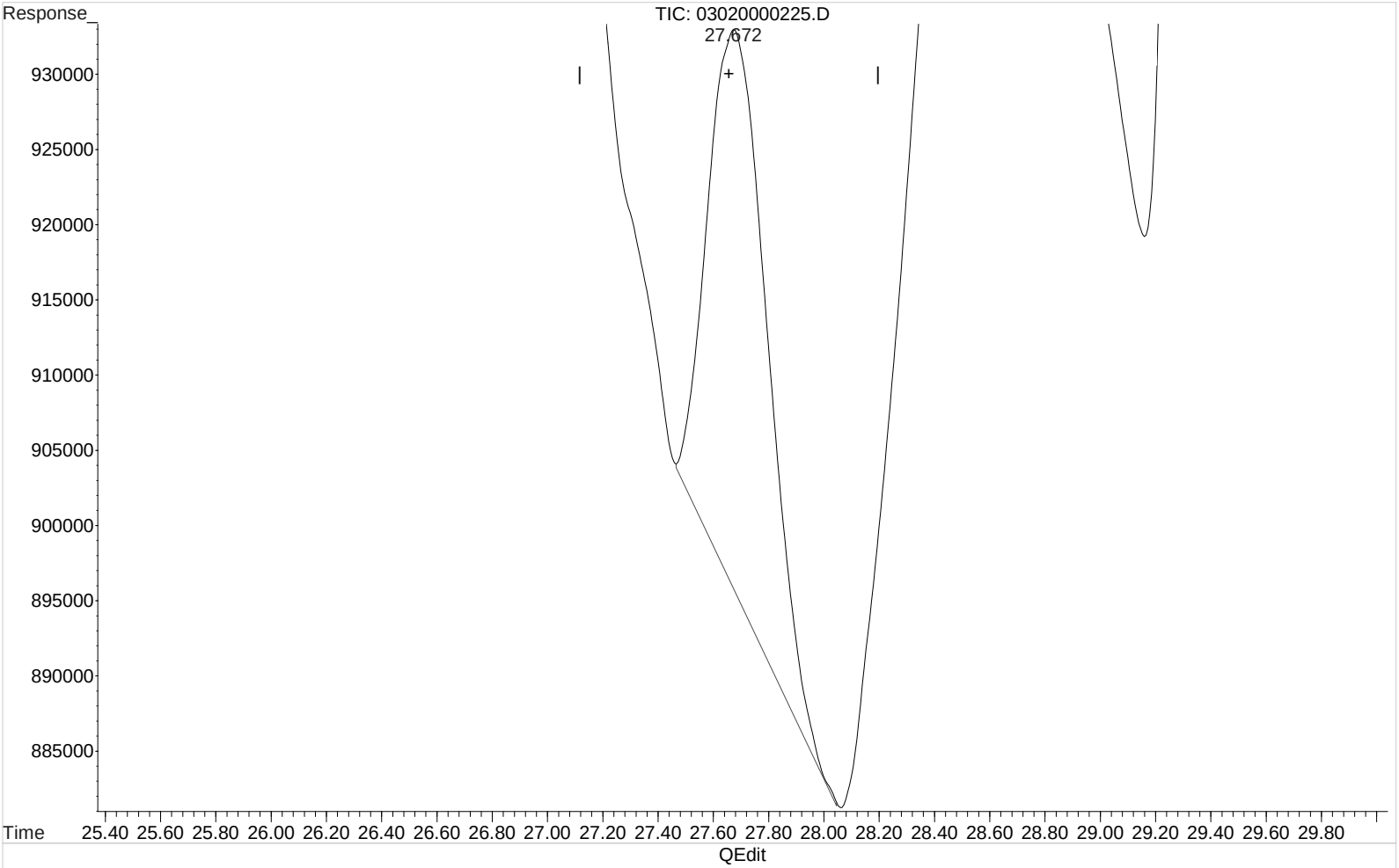
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_210\03020000225.D Vial: 21
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 02:29:41 Operator: BR
Sample : K1701351-013 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:48:05 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.672min 31.766 ug/L m

response 558946

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000226.
Lab ID: K1701351-015
RunType: SMPL
Matrix: SOIL

Date Acquired: 03/03/2017 03:05
Date Quantitated: 03/10/2017 09:48
Batch ID: KWG1701858
Analysis Method: 8330B
ListJoinID: LJ15912

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000226.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 03:05	**Quant Date:**	03/10/2017 09:48	**Vial:**	22
Run Type:	SMPL	**ListJoinID:**	LJ14468	**Dilution:**	1.0
Lab ID:	K1701351-015			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/09/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701858	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587776	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ14468
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_254\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.66	-0.01	91191868**m**	4,220	84	34-135	OK	

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0		0.0066	U	
RDX	8.33		173701**m**	8.75	0.050	U	
1,3,5-Trinitrobenzene			0		0.028	U	
1,3-Dinitrobenzene			0		0.013	U	
TETRYL			0		0.042	U	
Nitrobenzene			0		0.0045	U	
2,4,6-Trinitrotoluene			0		0.019	U	
4-Amino-2,6-dinitrotoluene			0		0.0052	U	
2-Amino-4,6-dinitrotoluene			0		0.0077	U	
2,6-Dinitrotoluene			0		0.0052	U	
2,4-Dinitrotoluene			0		0.042	U	
2-Nitrotoluene			0		0.0073	U	
4-Nitrotoluene			0		0.019	U	
3-Nitrotoluene	27.13	-0.23	228322**m**	11.34	0.019	U	

Prep Amount:	10.048 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	97.7 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000226.D Vial: 22
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 03:05:53 Operator: BR
Sample : K1701351-015 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 09:48:32 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
18)	S	1-Chloro-3-Nitrobenzene	29.660	91191868	4220.053	ug/L	m
		Target Compounds					
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	0.000	0	N.D.	ug/L	
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	8.334	173701	8.746	ug/L	m
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L	
6)	T	1,3-DNB	0.000	0	N.D.	ug/L	
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L	
8)	T	Tetryl	0.000	0	N.D.	ug/L	
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L	
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L	
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L	
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L	
13)	T	2,6-DNT	0.000	0	N.D.	ug/L	
14)	T	2,4-DNT	0.000	0	N.D.	ug/L	
15)	T	2-NT	0.000	0	N.D.	ug/L	
16)	T	4-NT	0.000	0	N.D.	ug/L	
17)	T	3-NT	27.134	228322	11.339	ug/L	m

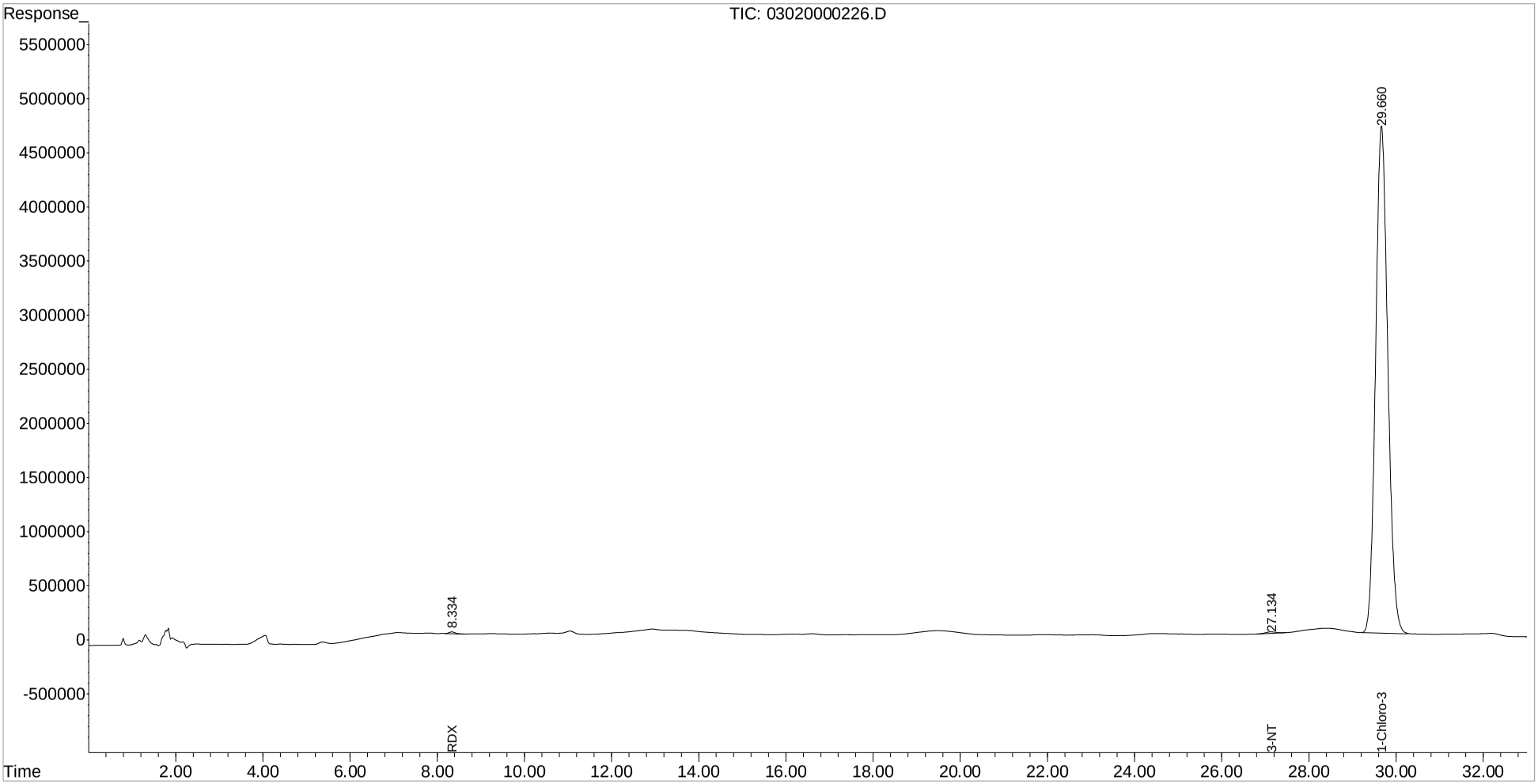
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000226.D Vial: 22
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 03:05:53 Operator: BR
Sample : K1701351-015 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 09:48:32 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

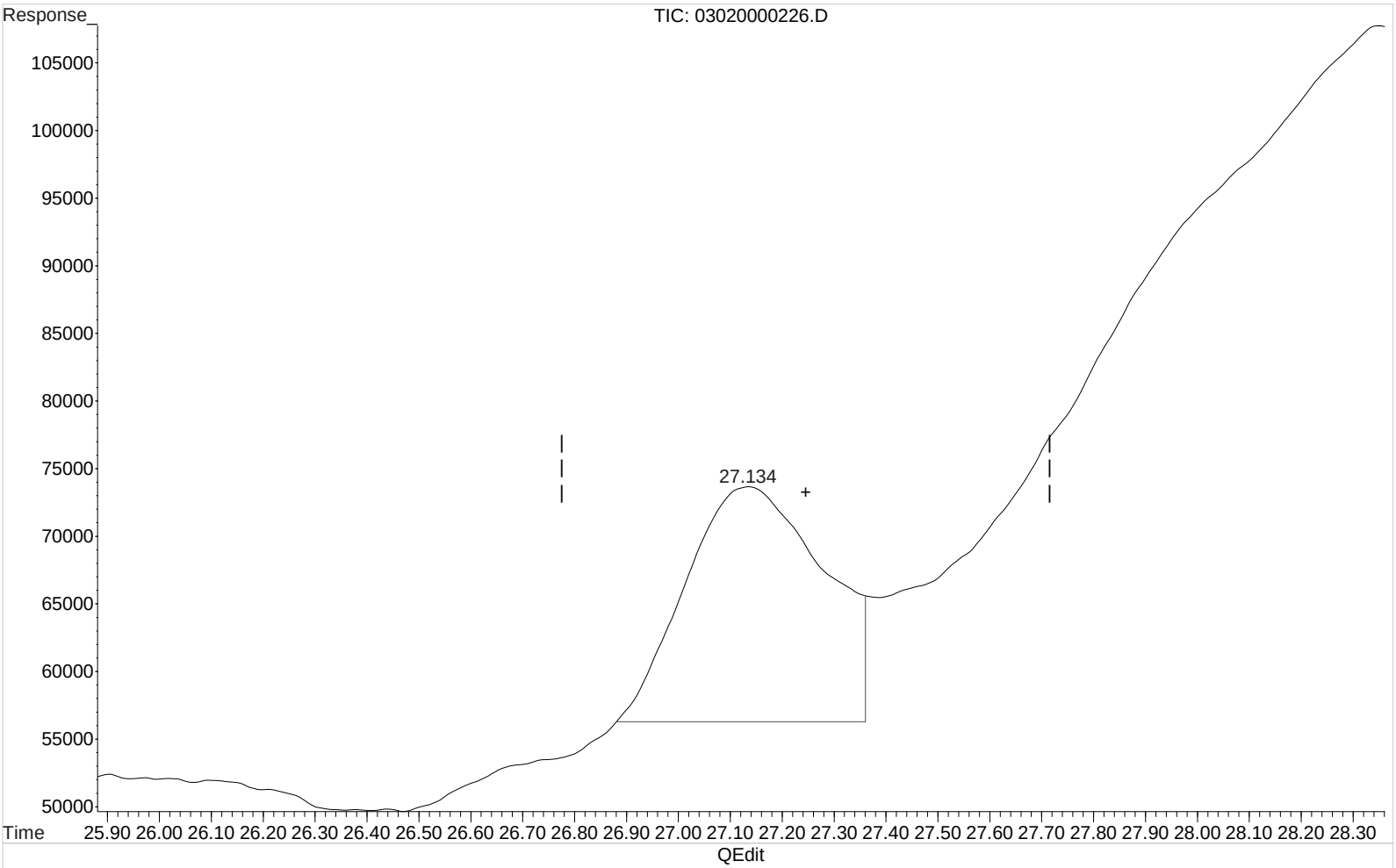


Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000226.D Vial: 22
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 03:05:53 Operator: BR
Sample : K1701351-015 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:44:37 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(17) 3-NT (T)

27.134min 16.075 ug/L

response 323680

Manual Integration:

Before

03/08/17

(+) = Expected Retention Time

(b) (6)

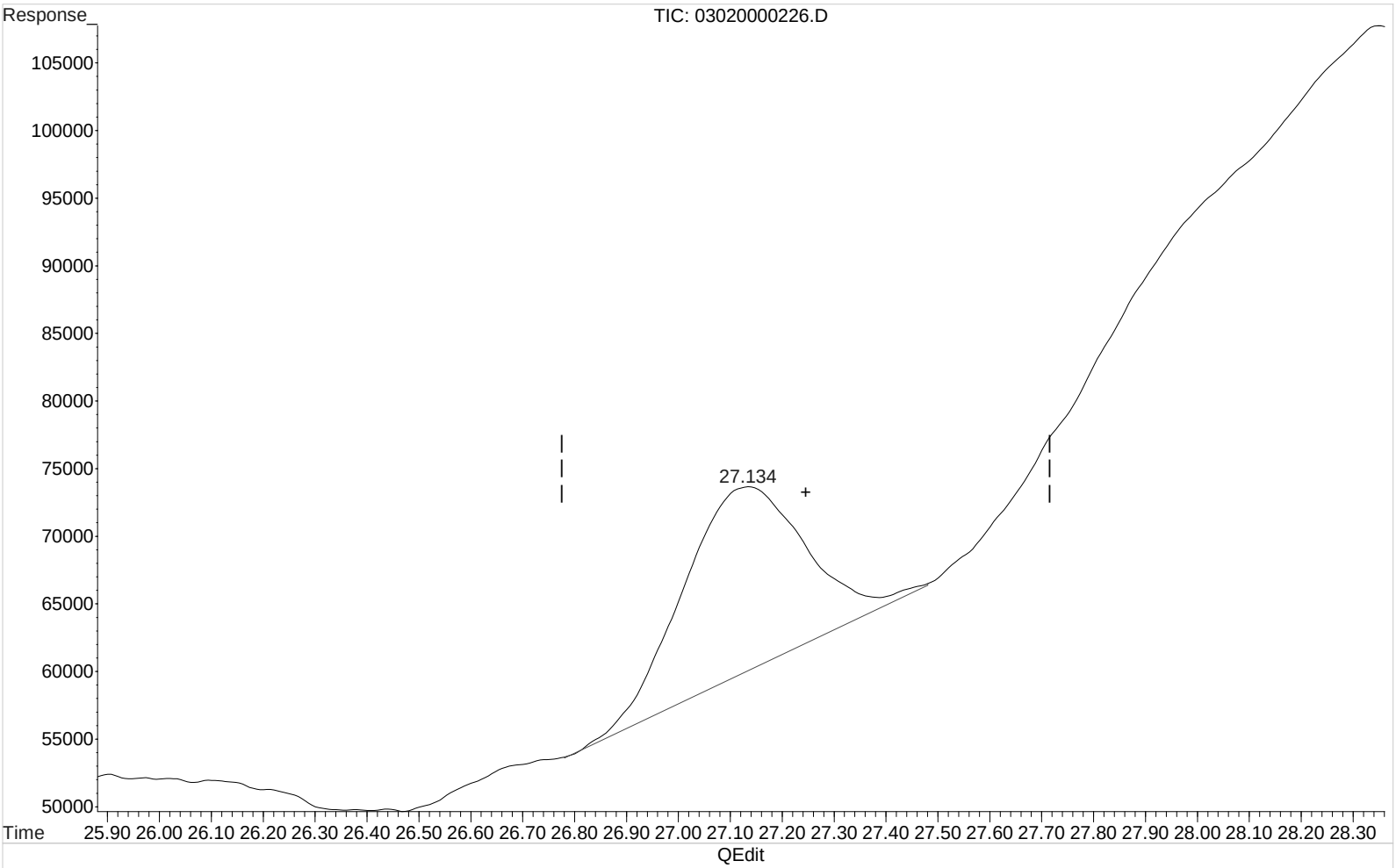
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000226.D Vial: 22
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 03:05:53 Operator: BR
Sample : K1701351-015 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:44:37 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(17) 3-NT (T)

27.134min 11.339 ug/L m

response 228322

Manual Integration:

After

BLC

03/08/17

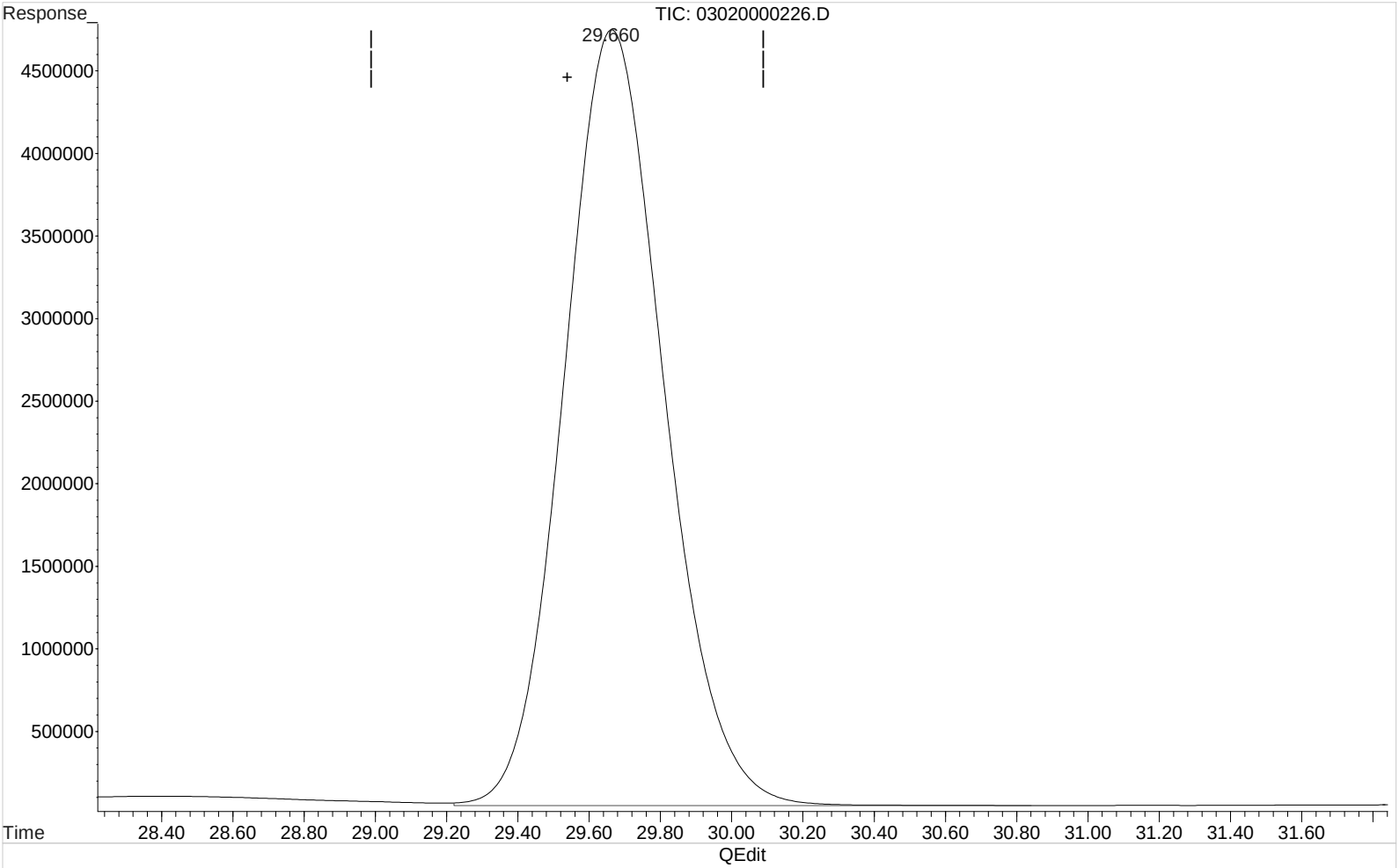
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000226.D Vial: 22
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 03:05:53 Operator: BR
Sample : K1701351-015 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:44:37 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(18) 1-Chloro-3-Nitrobenzene (S)

29.660min 4252.242 ug/L

response 91887440

Manual Integration:

Before

03/08/17

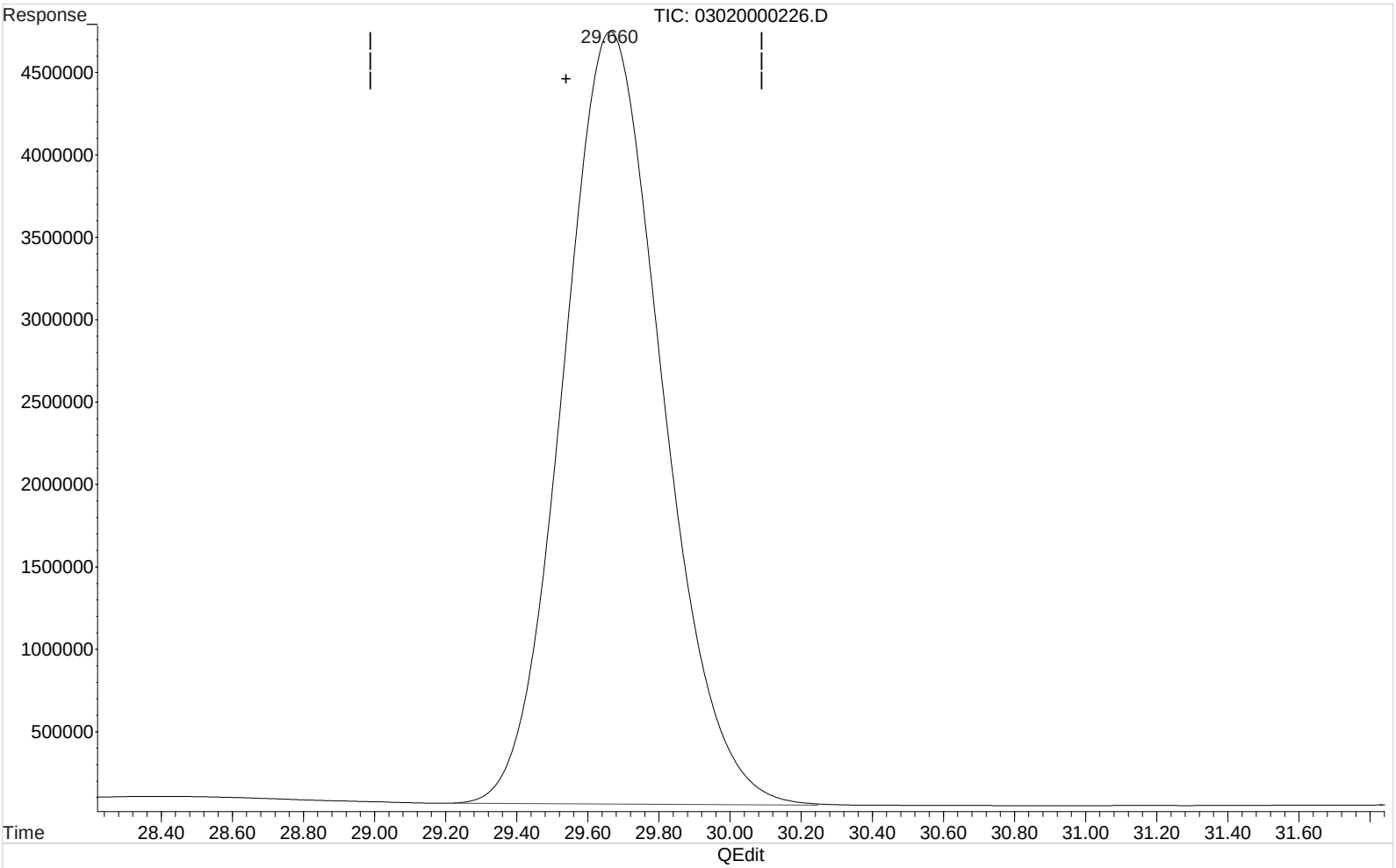
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000226.D Vial: 22
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 03:05:53 Operator: BR
Sample : K1701351-015 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:44:37 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(18) 1-Chloro-3-Nitrobenzene (S)

29.660min 4220.053 ug/L m

response 91191868

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

(b) (6)

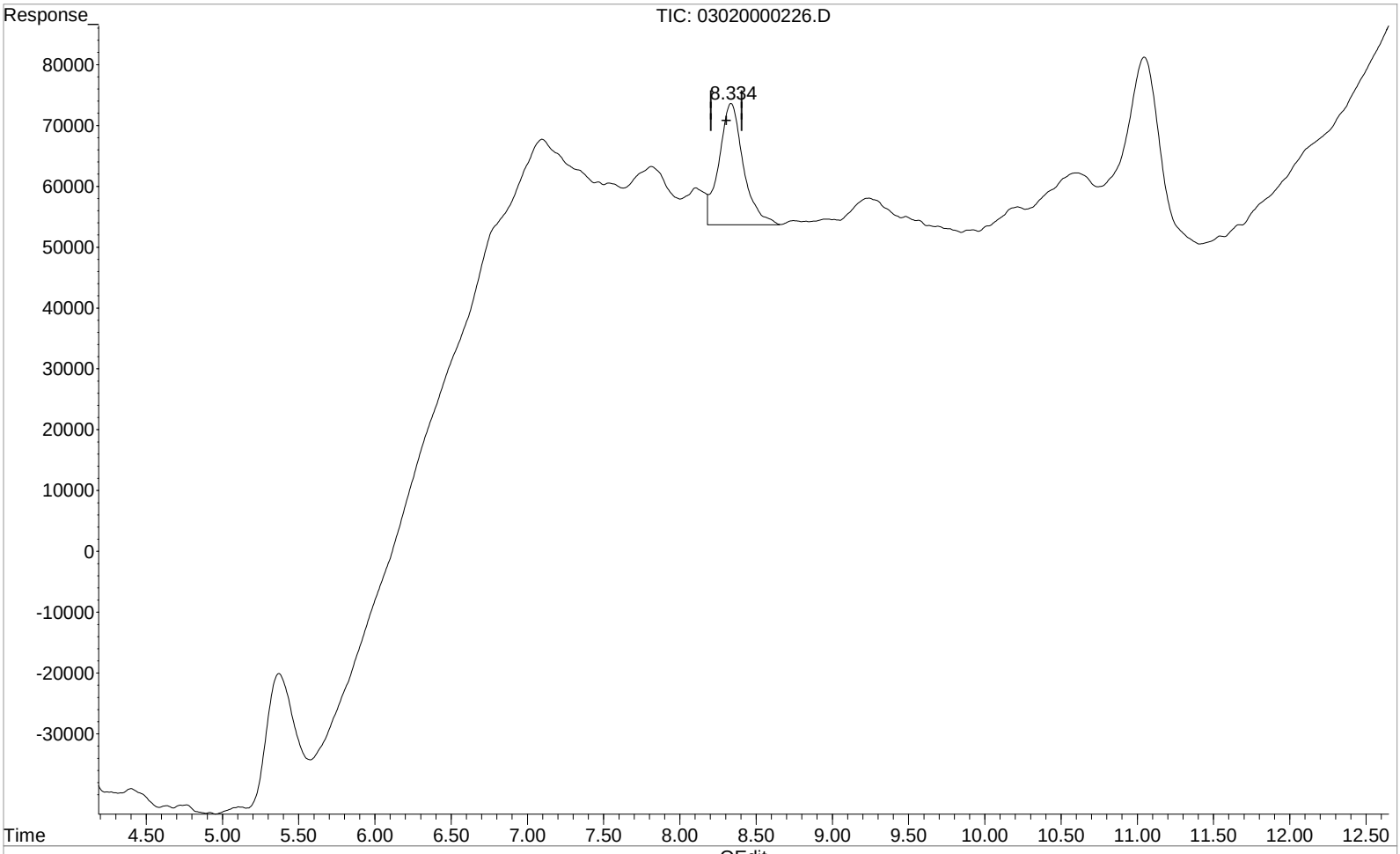
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000226.D Vial: 22
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 03:05:53 Operator: BR
Sample : K1701351-015 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 16:04:00 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(4) RDX (T)

8.334min 11.156 ug/L m

response 221570

Manual Integration:

Before

03/10/17

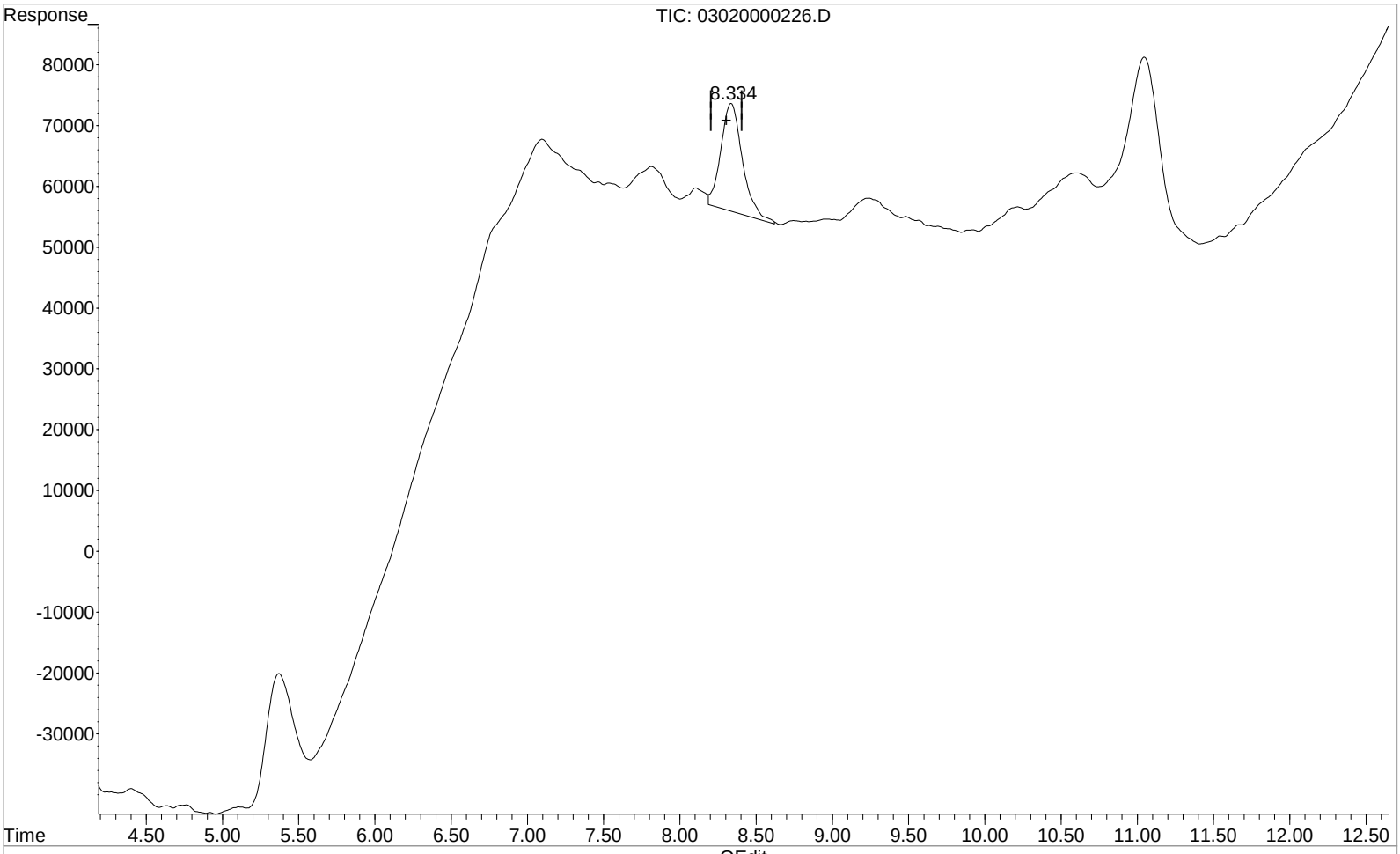
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000226.D Vial: 22
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 03:05:53 Operator: BR
Sample : K1701351-015 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 16:04:00 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(4) RDX (T)

8.334min 8.746 ug/L m

response 173701

Manual Integration:

After

BLC

03/10/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000226.
Lab ID: K1701351-015
RunType: SMPL
Matrix: SOIL

Date Acquired: 03/03/2017 03:05
Date Quantitated: 03/08/2017 13:55
Batch ID: KWG1701860
Analysis Method: 8330B
ListJoinID: LJ15912

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA		x
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Retention Time	Nitroglycerin	-0.35	NA	0.32	<LOD

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000226.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 03:05	**Quant Date:**	03/08/2017 13:55	**Vial:**	22
Run Type:	SMPL	**ListJoinID:**	LJ14468	**Dilution:**	1.0
Lab ID:	K1701351-015			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/09/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587776	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ14468
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_210\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.66	-0.01	241840744**m**	4,253	85	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.19	-0.35*	2343774**m**	112.43	0.092	J	
Pentaerythritol Tetranitrate			0**d**		0.12	U	

Prep Amount:	10.048 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	97.7 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000226.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 03:05	**Quant Date:**	03/08/2017 13:55	**Vial:**	22
Run Type:	SMPL	**ListJoinID:**	LJ15912	**Dilution:**	1.0
Lab ID:	K1701351-015			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**	02/09/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587776	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ15912
		Method ID:	MJ1432
MB Ref:	J:\LC10\DATA\030317_8330_210\03020000205.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.66	-0.01	241840744**m**	4,253	85	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.19	-0.35*	2343774**m**	112.43	0.092	J	<LOD
Pentaerythritol Tetranitrate			0**d**		0.12	U	

Prep Amount:	10.048 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	97.7 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000226.D Vial: 22
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 03:05:53 Operator: BR
Sample : K1701351-015 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 13:55:48 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.660	241840744	4253.128	ug/L	m
Target Compounds						
1) T	Nitroglycerin	16.194f	2343774	112.429	ug/L	m
2) T	PETN	0.000	0	N.D.	ug/L	d

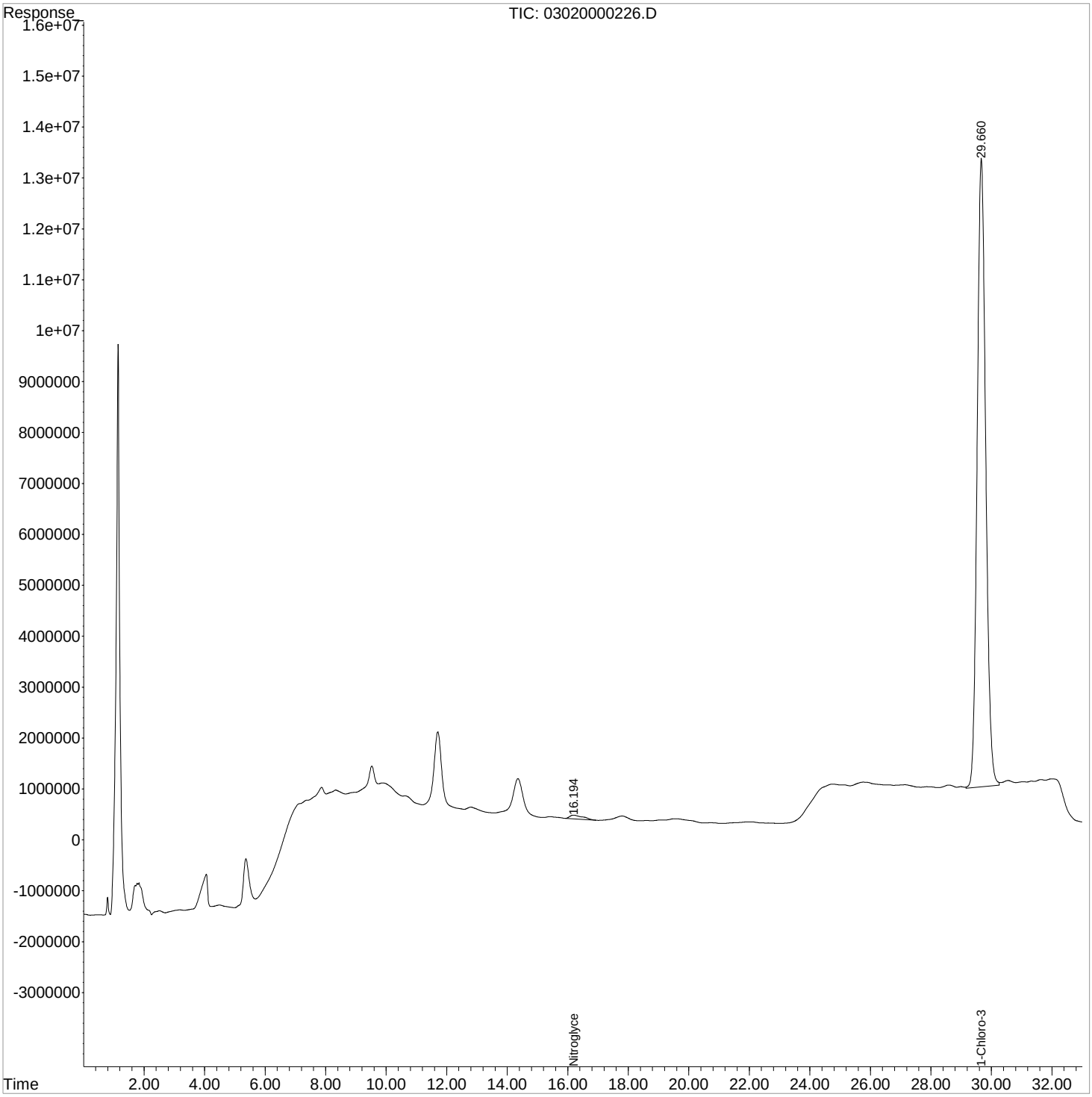
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000226.D Vial: 22
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 03:05:53 Operator: BR
Sample : K1701351-015 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 13:55:48 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

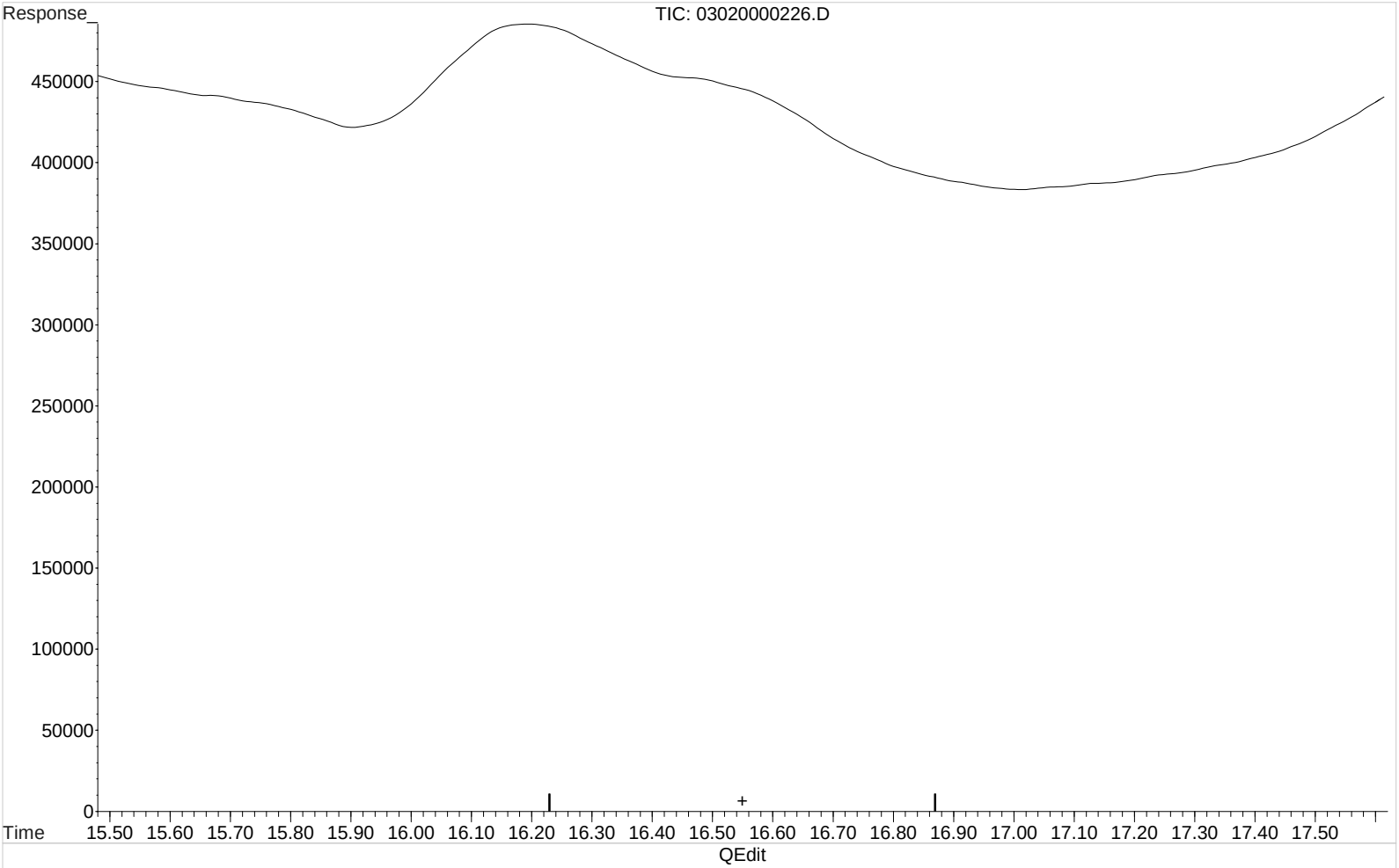


Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000226.D Vial: 22
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 03:05:53 Operator: BR
Sample : K1701351-015 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:53:53 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.550min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

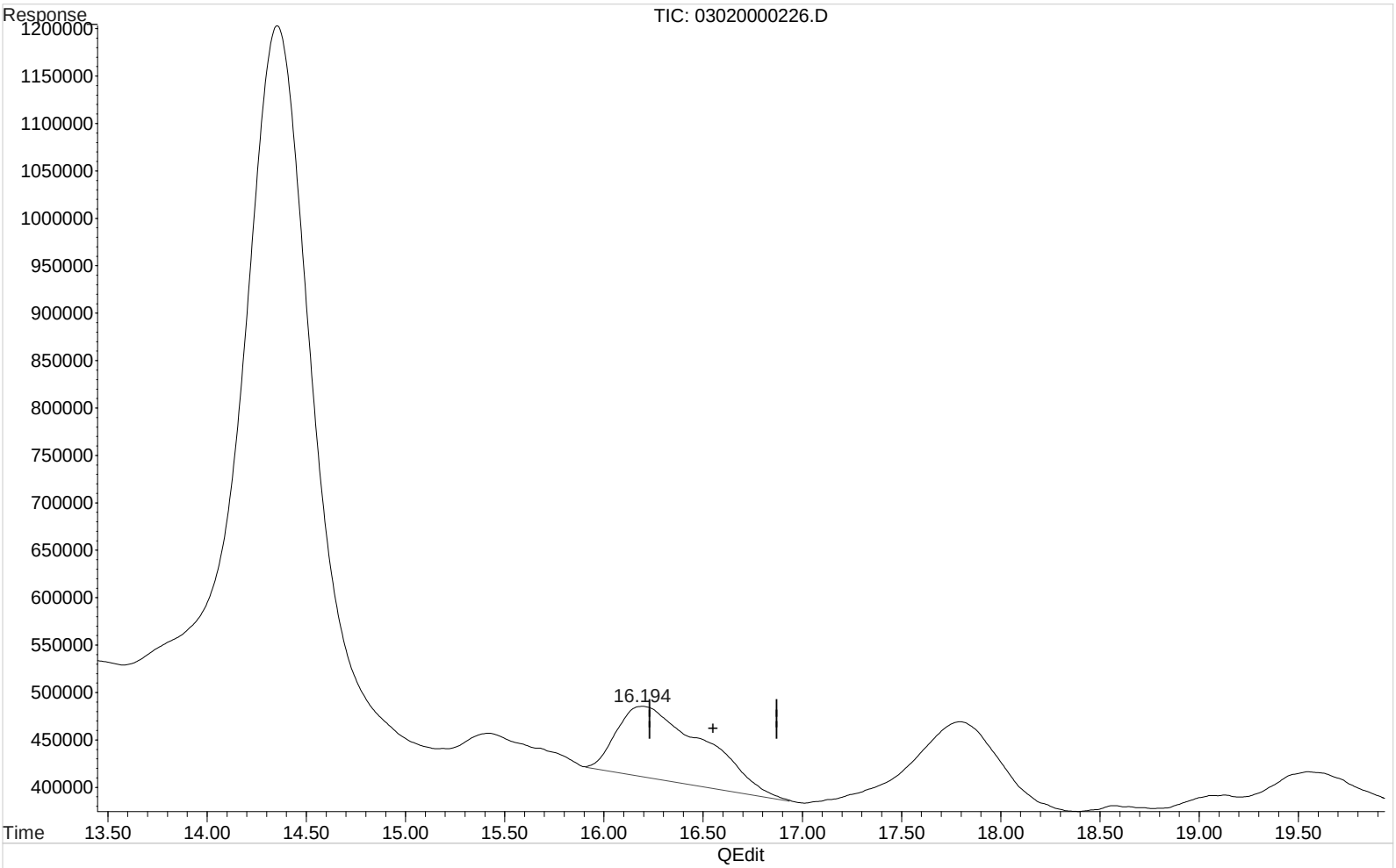
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000226.D Vial: 22
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 03:05:53 Operator: BR
Sample : K1701351-015 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:53:53 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.194min 112.429 ug/L m

response 2343774

Manual Integration:

After

BLC

03/08/17

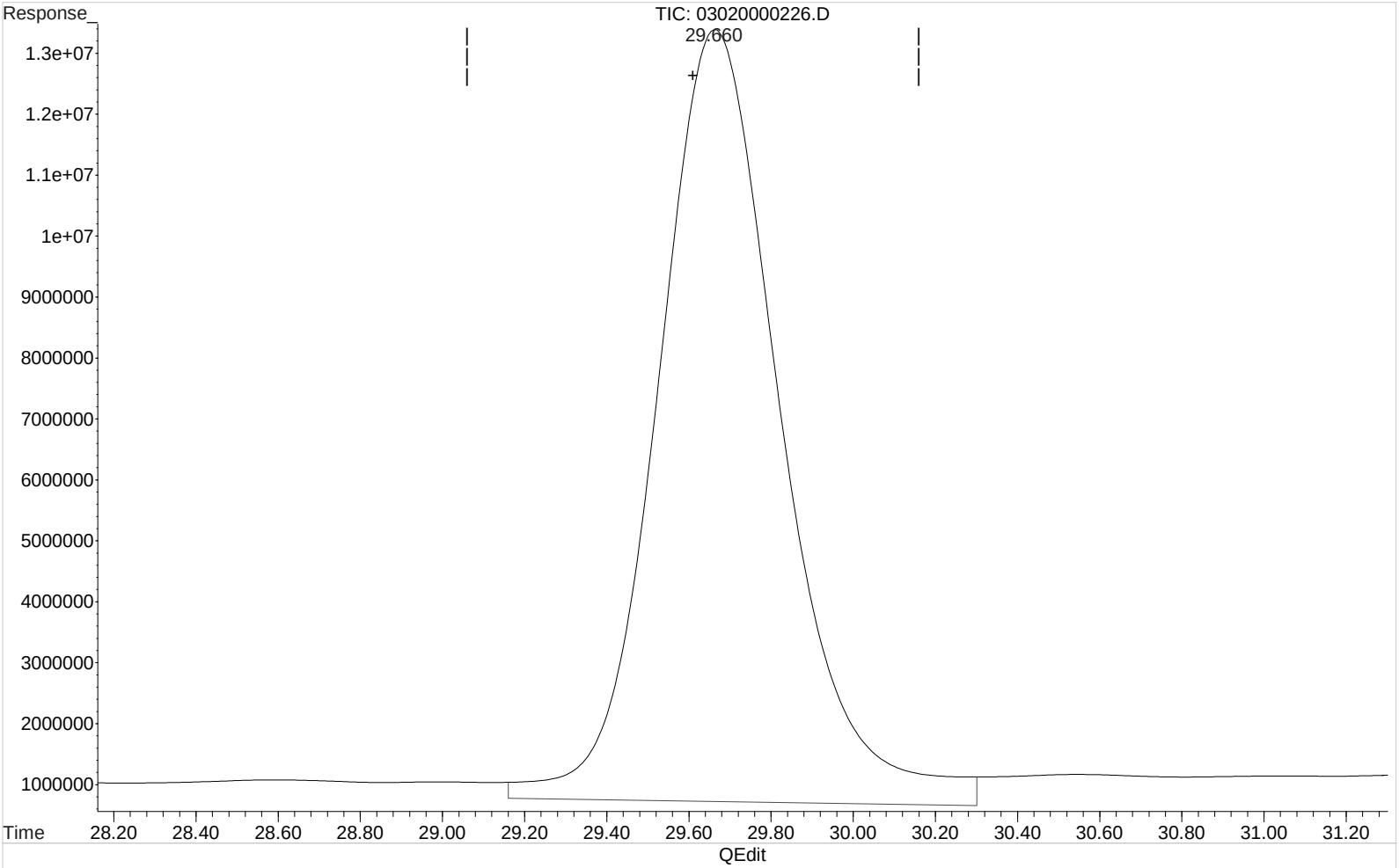
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000226.D Vial: 22
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 03:05:53 Operator: BR
Sample : K1701351-015 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:00:26 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.660min 4655.114 ug/L

response 264698379

Manual Integration:

Before

03/06/17

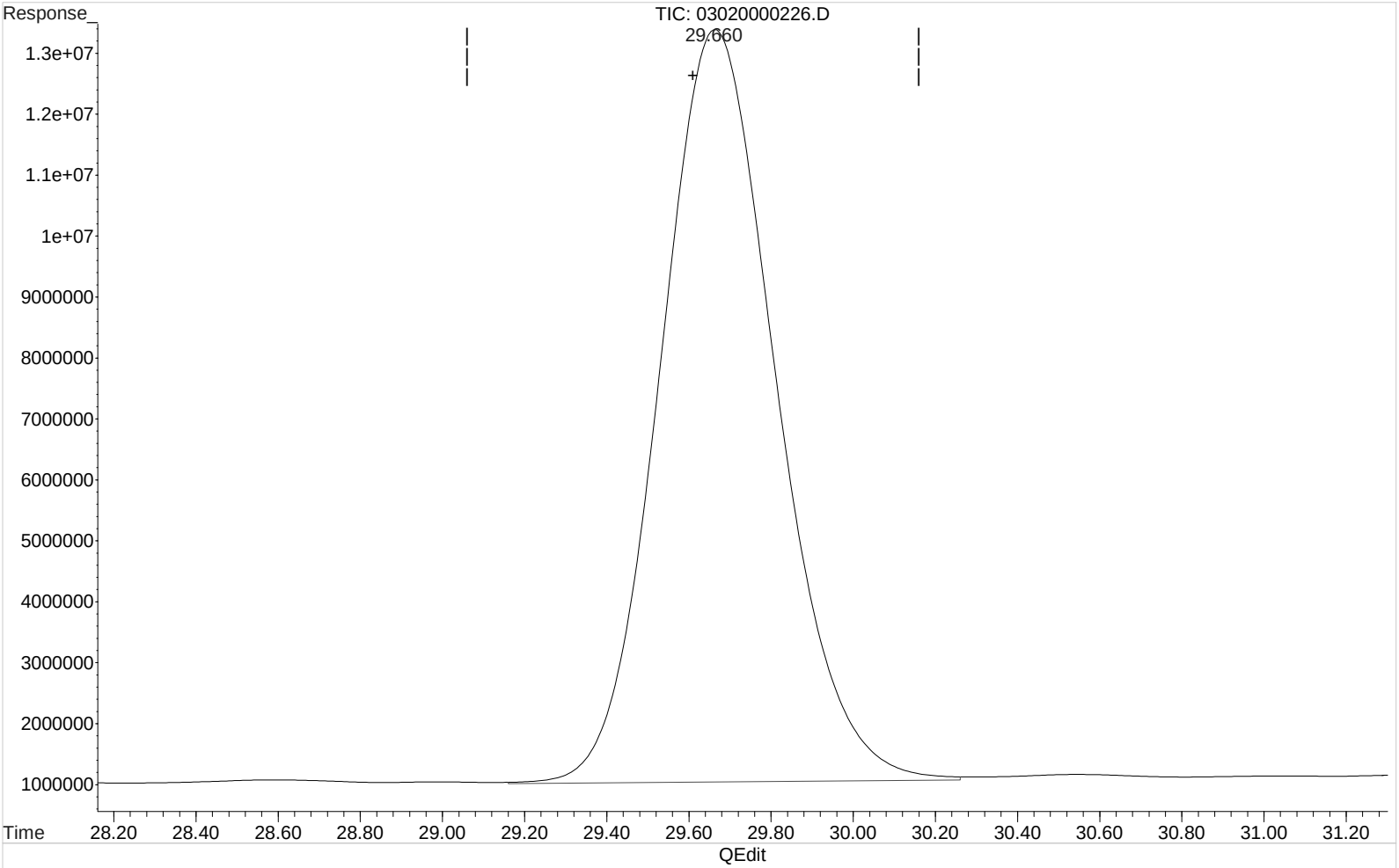
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000226.D Vial: 22
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 03:05:53 Operator: BR
Sample : K1701351-015 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:00:26 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.660min 4253.128 ug/L m

response 241840744

Manual Integration:

After

BLC

03/06/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\021517-254\0215000110.D
Lab ID: K1701351-016
RunType: SMPL
Matrix: WATER

Date Acquired: 02/15/2017 22:08
Date Quantitated: 02/16/2017 11:43
Batch ID: KWG1701308
Analysis Method: 8330B
ListJoinID: LJ13249

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Duplicate Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\021517-254\0215000110.D			**Instrument:**	LC10
Acqu Date:	02/15/2017 22:08	**Quant Date:**	02/16/2017 11:43	**Vial:**	8
Run Type:	SMPL	**ListJoinID:**	LJ13249	**Dilution:**	1.0
Lab ID:	K1701351-016			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8330B NitramAro	**Collect Date:**	02/07/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701308	**Prep Lot:**	KWG1701217	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1586619	**Prep Date:**	02/14/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ13249
		Method ID:	MJ1278
MB Ref:	J:\LC10\DATA\021517-254\0215000106.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.57	0.04	77778782	3,599	72	23-98	OK	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0		0.037	U	
RDX			0		0.11	U	
1,3,5-Trinitrobenzene	10.40	0.01	535440**m**	11.99	0.14	U	
1,3-Dinitrobenzene			0		0.046	U	
3,5-Dinitroaniline			0		0.084	U	
TETRYL			0		0.099	U	
Nitrobenzene			0		0.027	U	
2,4,6-Trinitrotoluene			0		0.092	U	
4-Amino-2,6-dinitrotoluene			0		0.032	U	
2-Amino-4,6-dinitrotoluene			0		0.034	U	
2,6-Dinitrotoluene			0		0.054	U	
2,4-Dinitrotoluene			0		0.085	U	
2-Nitrotoluene			0		0.032	U	
4-Nitrotoluene			0		0.024	U	
3-Nitrotoluene	27.07	-0.16	163114**m**	8.10	0.034	U	

Prep Amount:	1050 ml	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 22:08:25 Operator: AE
Sample : K1701351-016 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 11:43:25 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
18)	S	1-Chloro-3-Nitrobenzene	29.575	77778782	3599.341	ug/L	
		Target Compounds					
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	0.000	0	N.D.	ug/L	
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	0.000	0	N.D.	ug/L	
5)	T	1,3,5-TNB	10.395	535440	11.988	ug/L	m
6)	T	1,3-DNB	0.000	0	N.D.	ug/L	
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L	
8)	T	Tetryl	0.000	0	N.D.	ug/L	
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L	
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L	
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L	
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L	
13)	T	2,6-DNT	0.000	0	N.D.	ug/L	
14)	T	2,4-DNT	0.000	0	N.D.	ug/L	
15)	T	2-NT	0.000	0	N.D.	ug/L	
16)	T	4-NT	0.000	0	N.D.	ug/L	
17)	T	3-NT	27.075	163114	8.101	ug/L	m

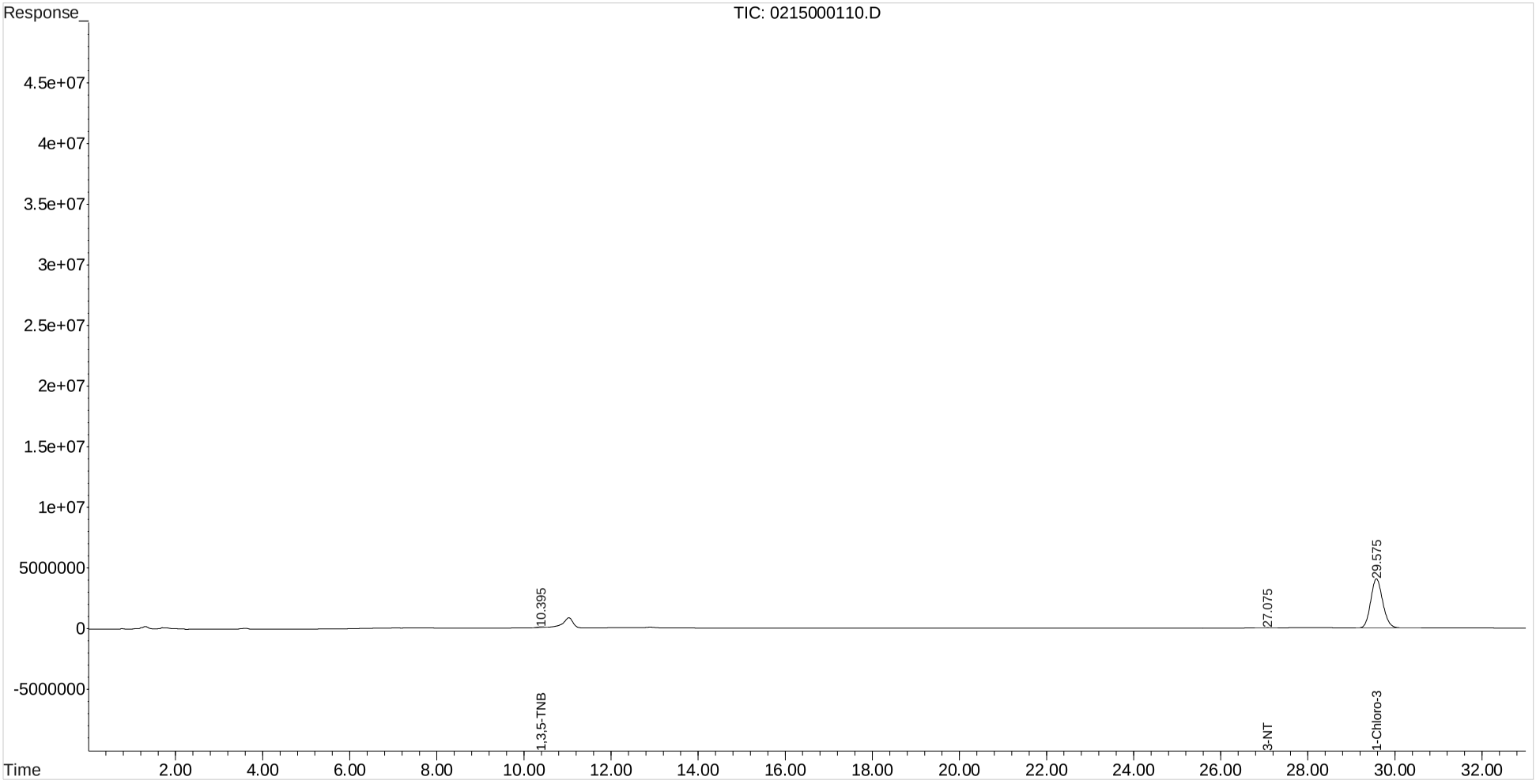
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 22:08:25 Operator: AE
Sample : K1701351-016 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 11:43:25 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



012223

(9) (g) 02/17/17 02/27/17

(b) (6)

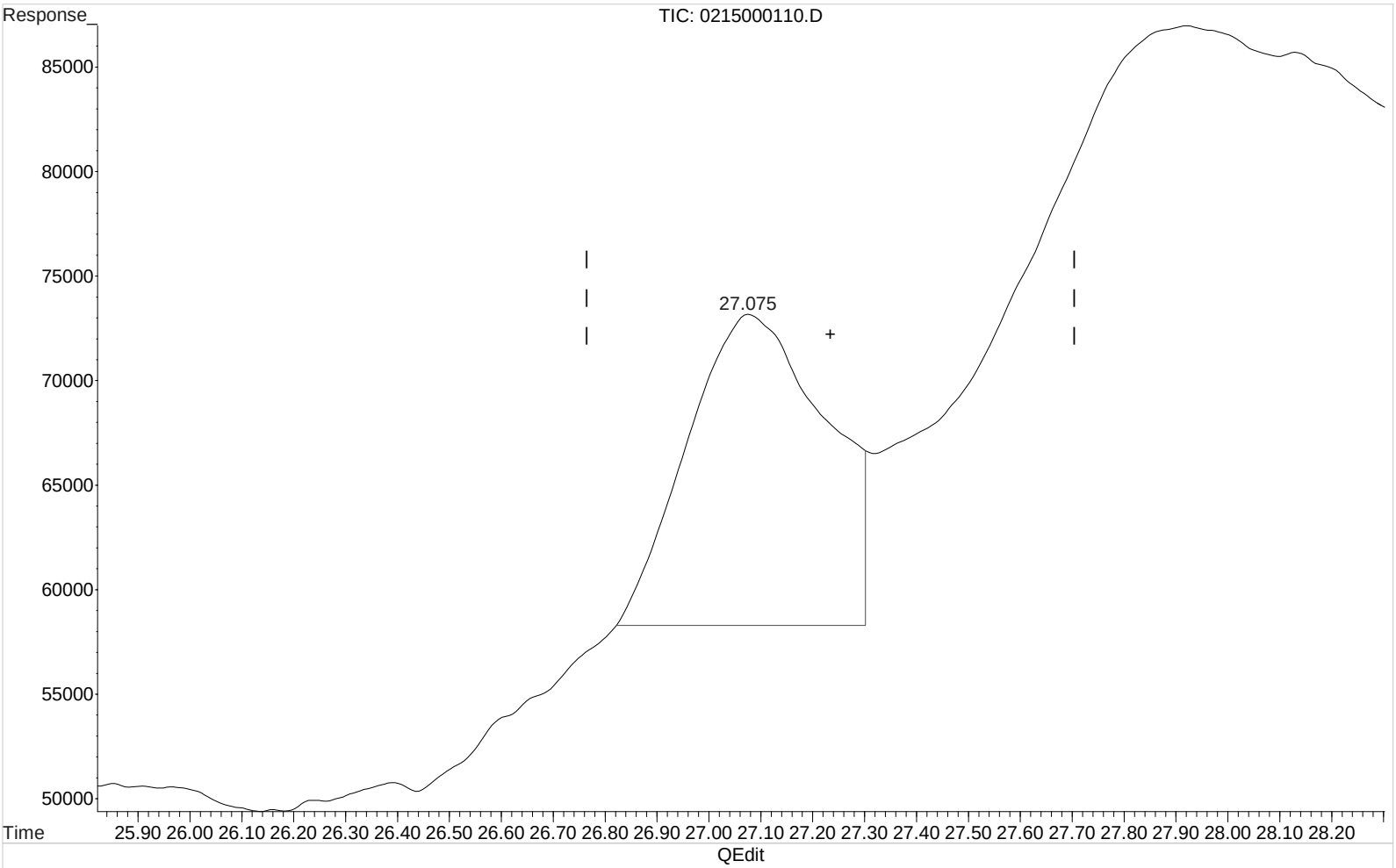
02/17/17

02/27/17

Data File : J:\LC10\Data\021517-254\0215000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 22:08:25 Operator: AE
Sample : K1701351-016 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:28:52 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.075min 13.737 ug/L

response 276607

Manual Integration:

Before

02/16/17

(+) = Expected Retention Time

(b) (6)

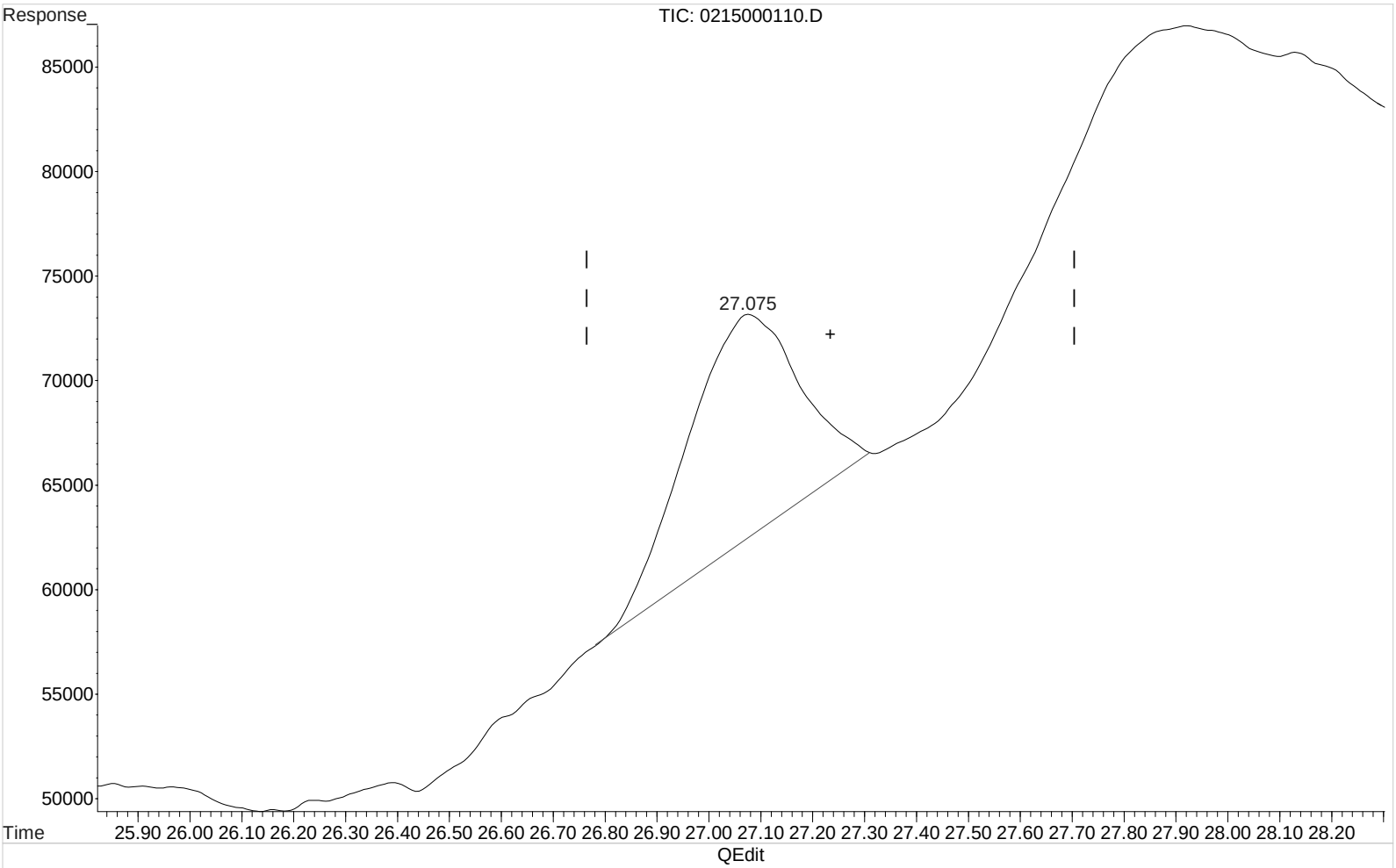
02/17/17

02/27/17

Data File : J:\LC10\Data\021517-254\0215000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 22:08:25 Operator: AE
Sample : K1701351-016 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:28:52 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.075min 8.101 ug/L m

response 163114

Manual Integration:

After

BLC

02/16/17

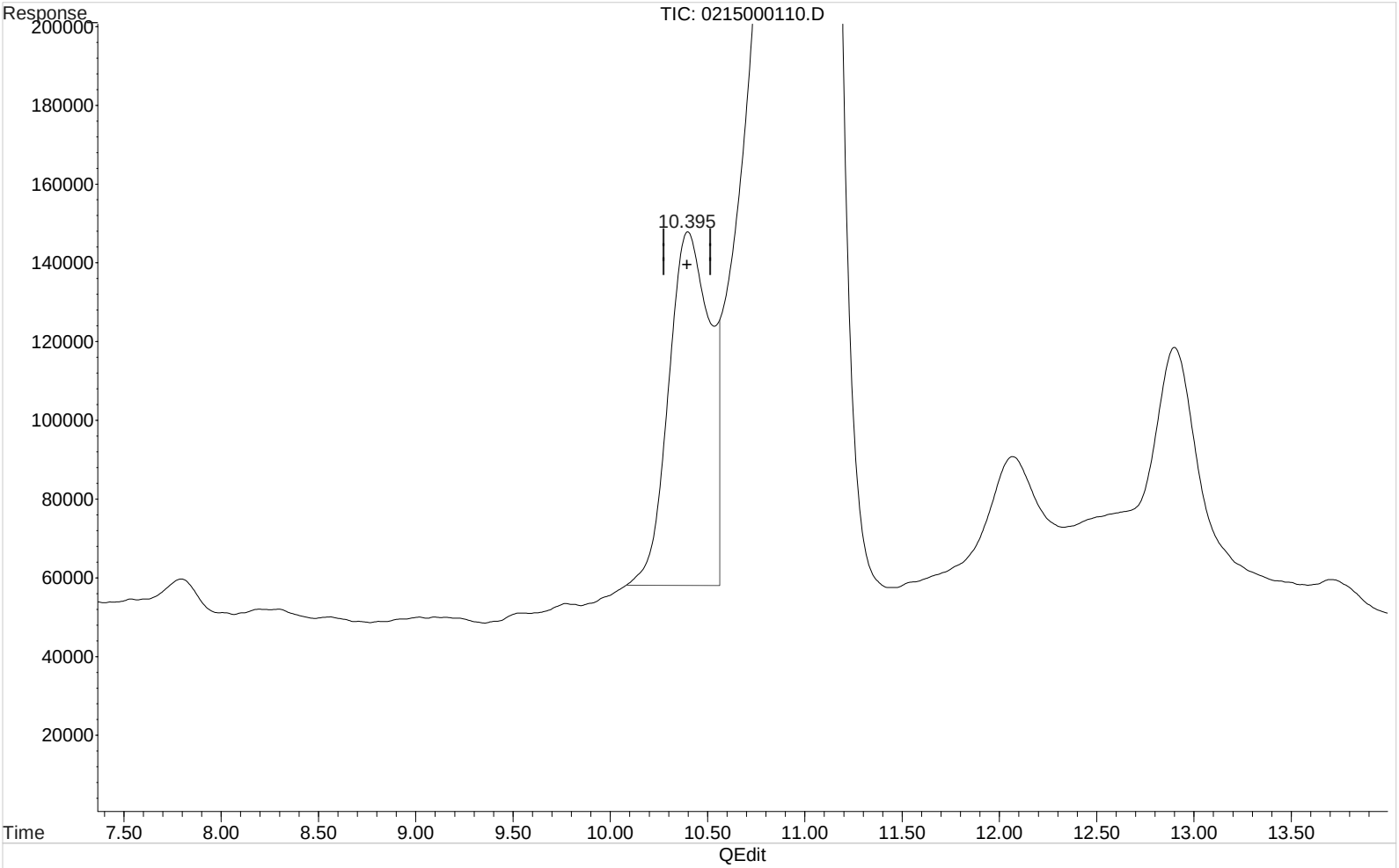
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\021517-254\0215000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 22:08:25 Operator: AE
Sample : K1701351-016 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:28:52 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(5) 1,3,5-TNB (T)

10.395min 30.617 ug/L

response 1367535

Manual Integration:

Before

02/16/17

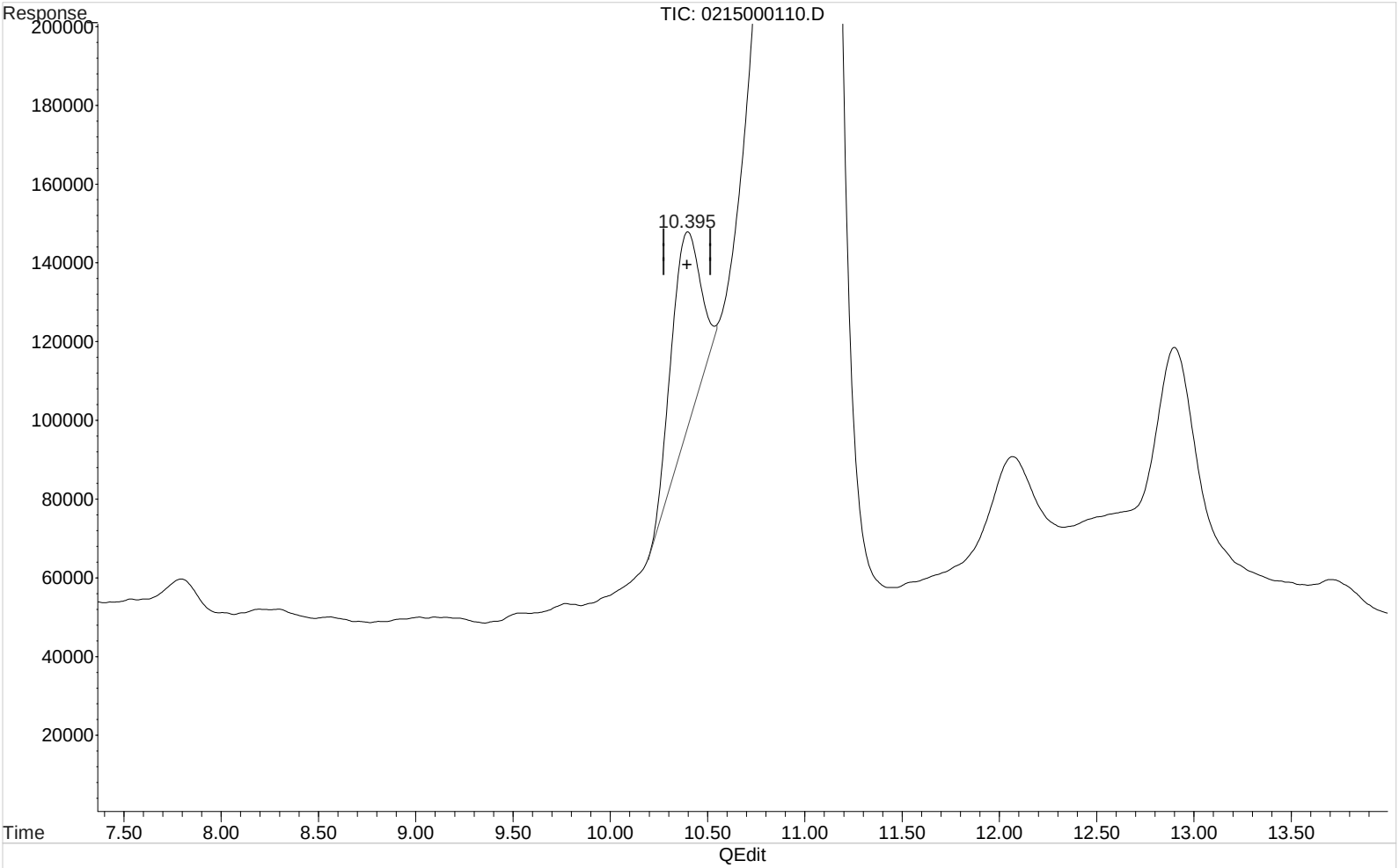
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\021517-254\0215000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 22:08:25 Operator: AE
Sample : K1701351-016 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:28:52 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(5) 1,3,5-TNB (T)

10.395min 11.988 ug/L m

response 535440

Manual Integration:

After

BLC

02/16/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\021517-210\0215000110.D
Lab ID: K1701351-016
RunType: SMPL
Matrix: WATER

Date Acquired: 02/15/2017 22:08
Date Quantitated: 02/16/2017 13:19
Batch ID: KWG1701307
Analysis Method: 8330B
ListJoinID: LJ13249

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Duplicate Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\021517-210\0215000110.D			**Instrument:**	LC10
Acqu Date:	02/15/2017 22:08	**Quant Date:**	02/16/2017 13:19	**Vial:**	8
Run Type:	SMPL	**ListJoinID:**	LJ13249	**Dilution:**	1.0
Lab ID:	K1701351-016			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8330B NitramAro	**Collect Date:**	02/07/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701307	**Prep Lot:**	KWG1701217	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1586619	**Prep Date:**	02/14/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ13249
		Method ID:	MJ1278
MB Ref:	J:\LC10\DATA\021517-254\0215000106.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.57	0.04	208325539	3,664	73	23-98	OK	NR

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.54	0.09	443554**m**	21.28	0.58	U	
Pentaerythritol Tetranitrate			0**d**		0.65	U	

Prep Amount:	1050 ml	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-210\0215000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 22:08:25 Operator: AE
Sample : K1701351-016 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 13:19:27 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.575	208325539	3663.714	ug/L	
Target Compounds						
1) T	Nitroglycerin	16.542	443554	21.277	ug/L	m
2) T	PETN	0.000	0	N.D.	ug/L	d

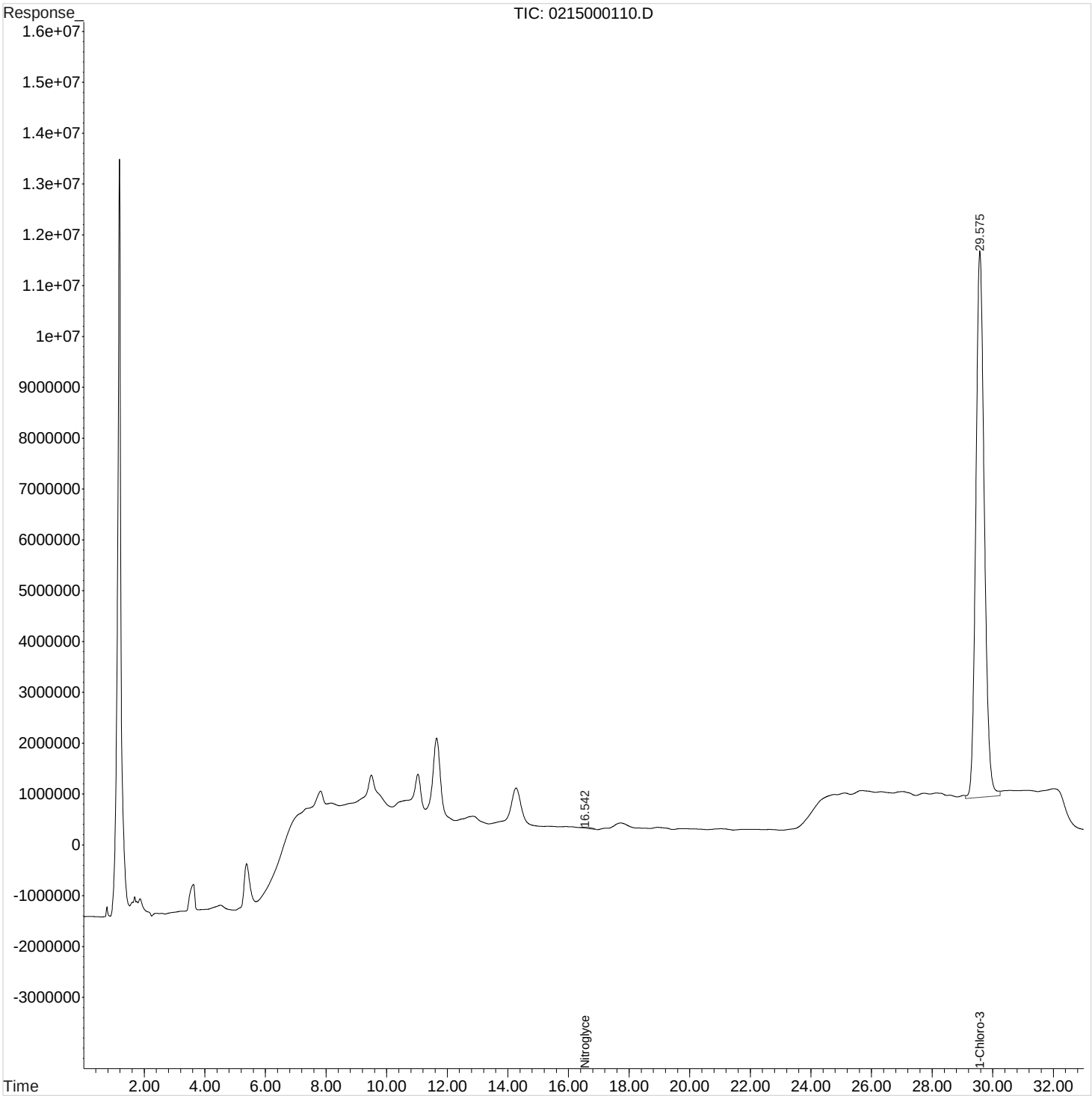
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-210\0215000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 22:08:25 Operator: AE
Sample : K1701351-016 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 13:19:27 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

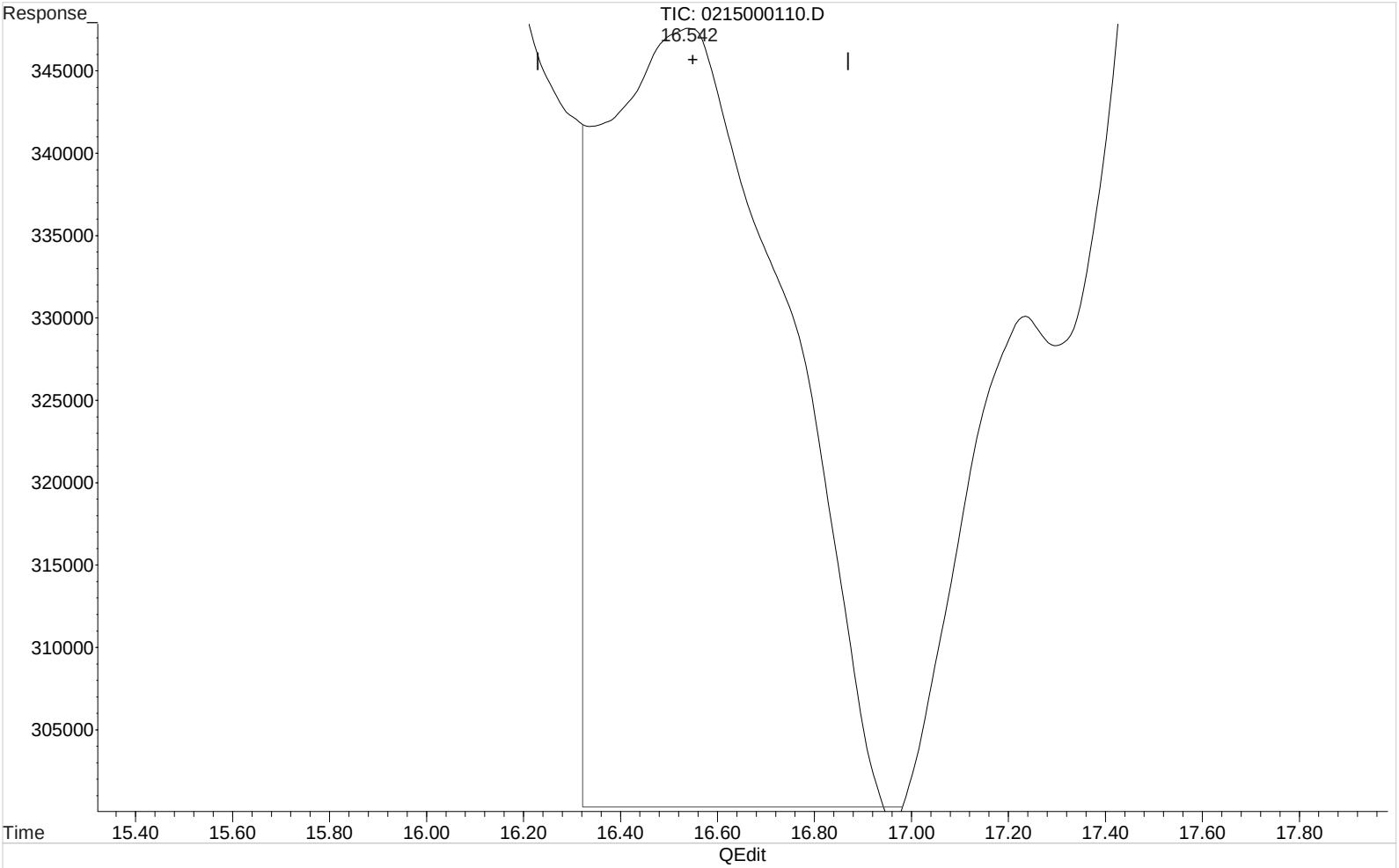


Quantitation Report (Qedit)

Data File : J:\LC10\Data\021517-210\0215000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 22:08:25 Operator: AE
Sample : K1701351-016 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 12:24:50 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.542min 59.024 ug/L

response 1230455

Manual Integration:

Before

02/16/17

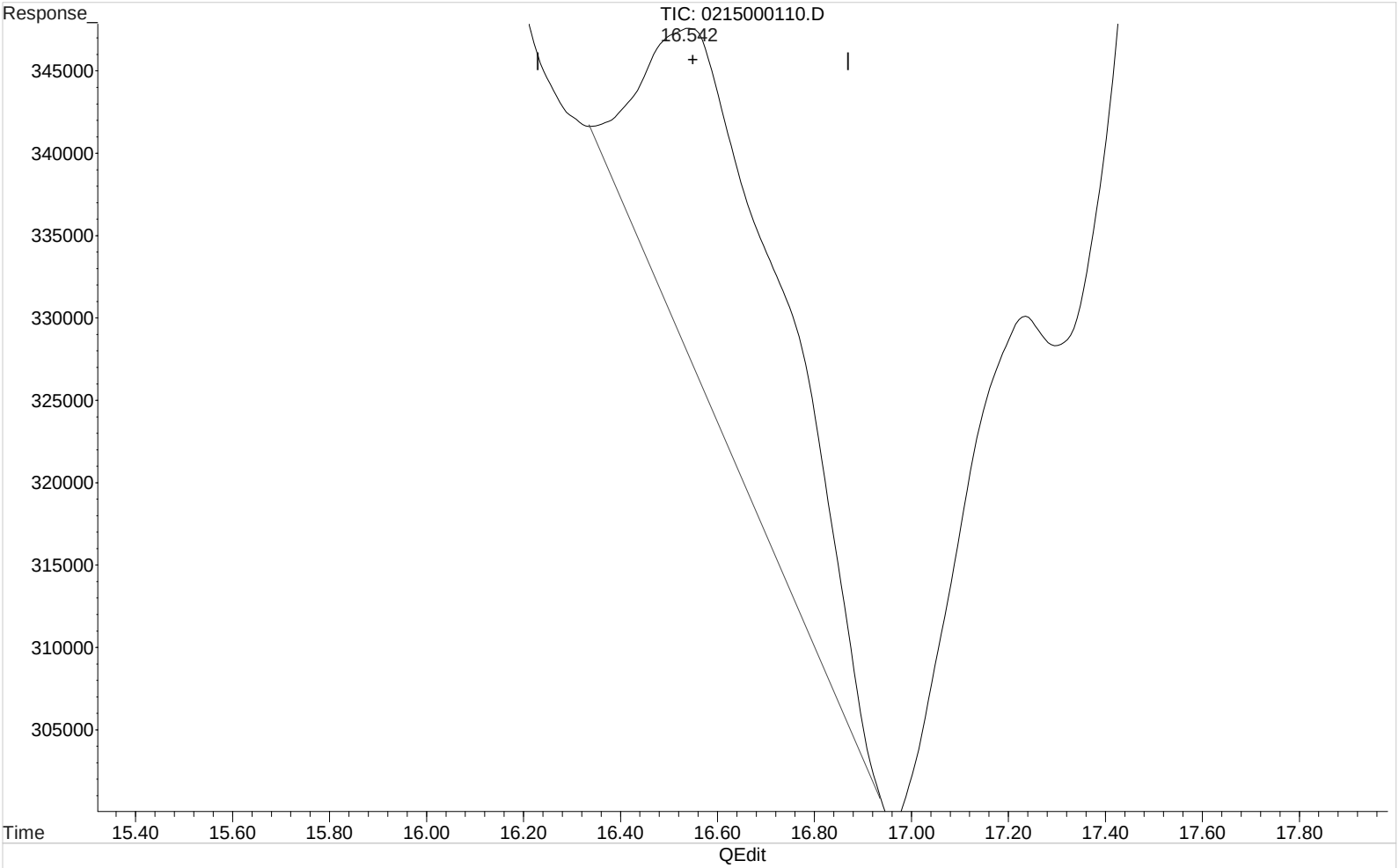
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\021517-210\0215000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 22:08:25 Operator: AE
Sample : K1701351-016 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 12:24:50 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.542min 21.277 ug/L m

response 443554

Manual Integration:

After

BLC

02/16/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\021517-254\0215000111.D
Lab ID: K1701351-017
RunType: SMPL
Matrix: WATER

Date Acquired: 02/15/2017 22:44
Date Quantitated: 02/16/2017 11:54
Batch ID: KWG1701308
Analysis Method: 8330B
ListJoinID: LJ13249

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Duplicate Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\021517-254\0215000111.D			**Instrument:**	LC10
Acqu Date:	02/15/2017 22:44	**Quant Date:**	02/16/2017 11:54	**Vial:**	9
Run Type:	SMPL	**ListJoinID:**	LJ13249	**Dilution:**	1.0
Lab ID:	K1701351-017			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8330B NitramAro	**Collect Date:**	02/08/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701308	**Prep Lot:**	KWG1701217	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1586620	**Prep Date:**	02/14/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ13249
		Method ID:	MJ1278
MB Ref:	J:\LC10\DATA\021517-254\0215000106.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.55	0.02	76438886	3,537	71	23-98	OK	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0		0.037	U	
RDX	8.30	0.02	102760**m**	5.17	0.11	U	
1,3,5-Trinitrobenzene			0		0.14	U	
1,3-Dinitrobenzene			0		0.046	U	
3,5-Dinitroaniline			0		0.084	U	
TETRYL			0		0.099	U	
Nitrobenzene			0		0.027	U	
2,4,6-Trinitrotoluene			0		0.092	U	
4-Amino-2,6-dinitrotoluene			0		0.032	U	
2-Amino-4,6-dinitrotoluene			0		0.034	U	
2,6-Dinitrotoluene			0		0.054	U	
2,4-Dinitrotoluene			0		0.085	U	
2-Nitrotoluene	25.01	-0.20	1255811	69.90	0.27	Need Confirm	NR
4-Nitrotoluene			0		0.024	U	
3-Nitrotoluene	27.04	-0.19	171016**m**	8.49	0.034	U	

Prep Amount:	1030 ml	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 22:44:36 Operator: AE
Sample : K1701351-017 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 11:54:25 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
18)	S	1-Chloro-3-Nitrobenzene	29.550	76438886	3537.335	ug/L	
		Target Compounds					
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	0.000	0	N.D.	ug/L	
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	8.304	102760	5.174	ug/L	m
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L	
6)	T	1,3-DNB	0.000	0	N.D.	ug/L	
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L	
8)	T	Tetryl	0.000	0	N.D.	ug/L	
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L	
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L	
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L	
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L	
13)	T	2,6-DNT	0.000	0	N.D.	ug/L	
14)	T	2,4-DNT	0.000	0	N.D.	ug/L	
15)	T	2-NT	25.010f	1255811	69.899	ug/L	
16)	T	4-NT	0.000	0	N.D.	ug/L	
17)	T	3-NT	27.044	171016	8.493	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] 02/17/17
(9) (g) 02/27/17

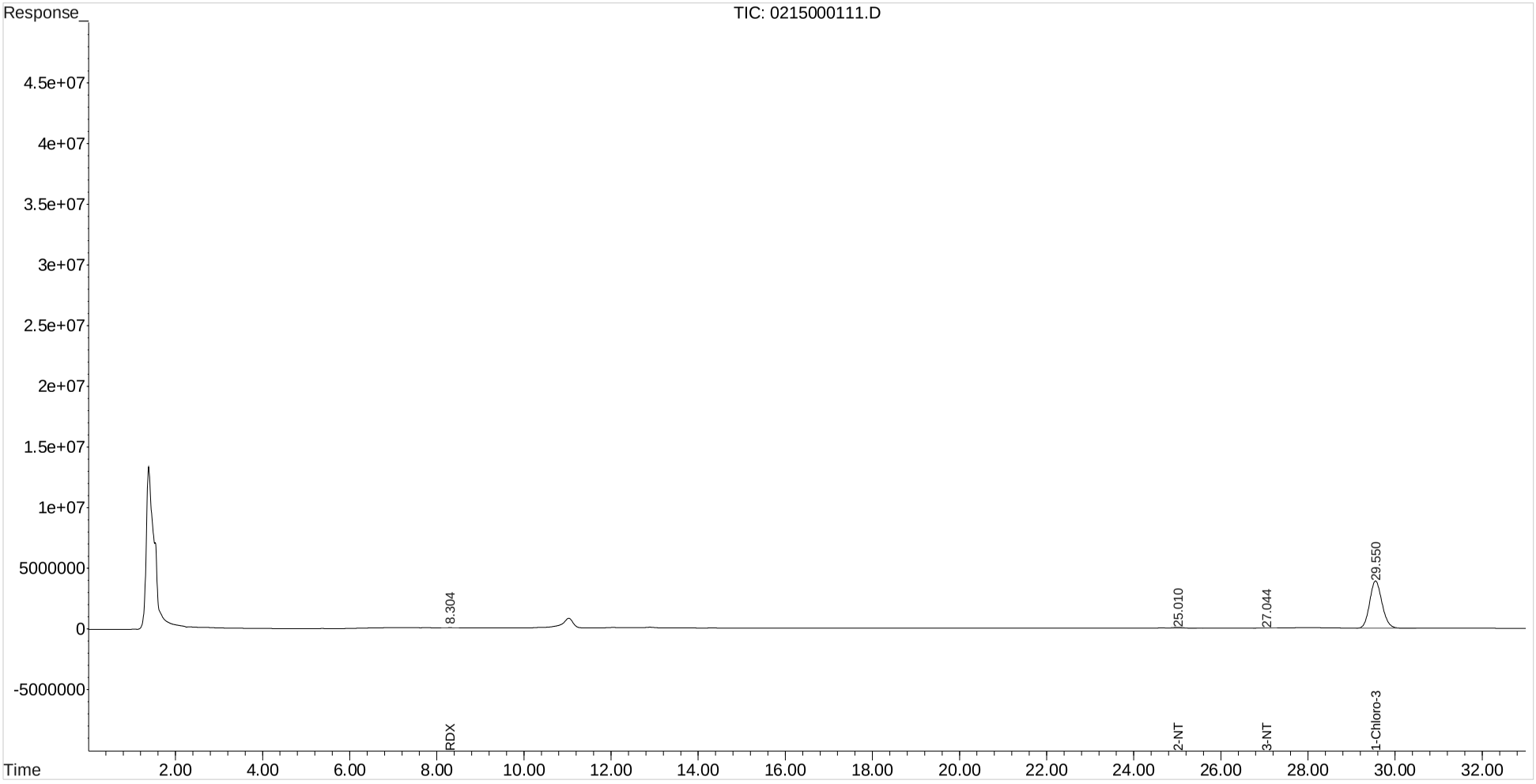
11/01/2018

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 22:44:36 Operator: AE
Sample : K1701351-017 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 11:54:25 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



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012237

(b) (6)

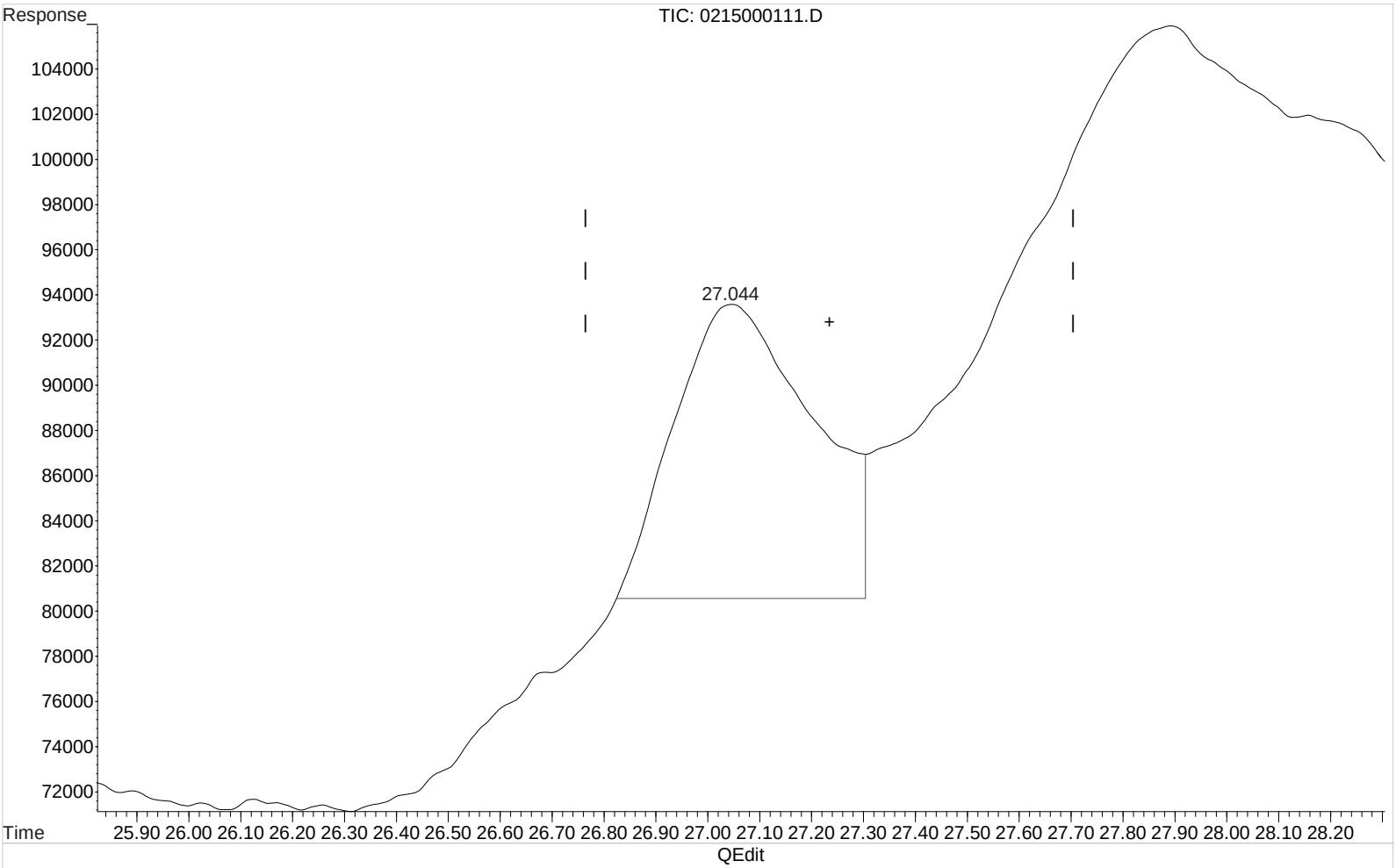
02/17/17

02/27/17

Data File : J:\LC10\Data\021517-254\0215000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 22:44:36 Operator: AE
Sample : K1701351-017 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 11:43:48 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.044min 12.055 ug/L

response 242747

Manual Integration:

Before

02/16/17

(+) = Expected Retention Time

(b) (6)

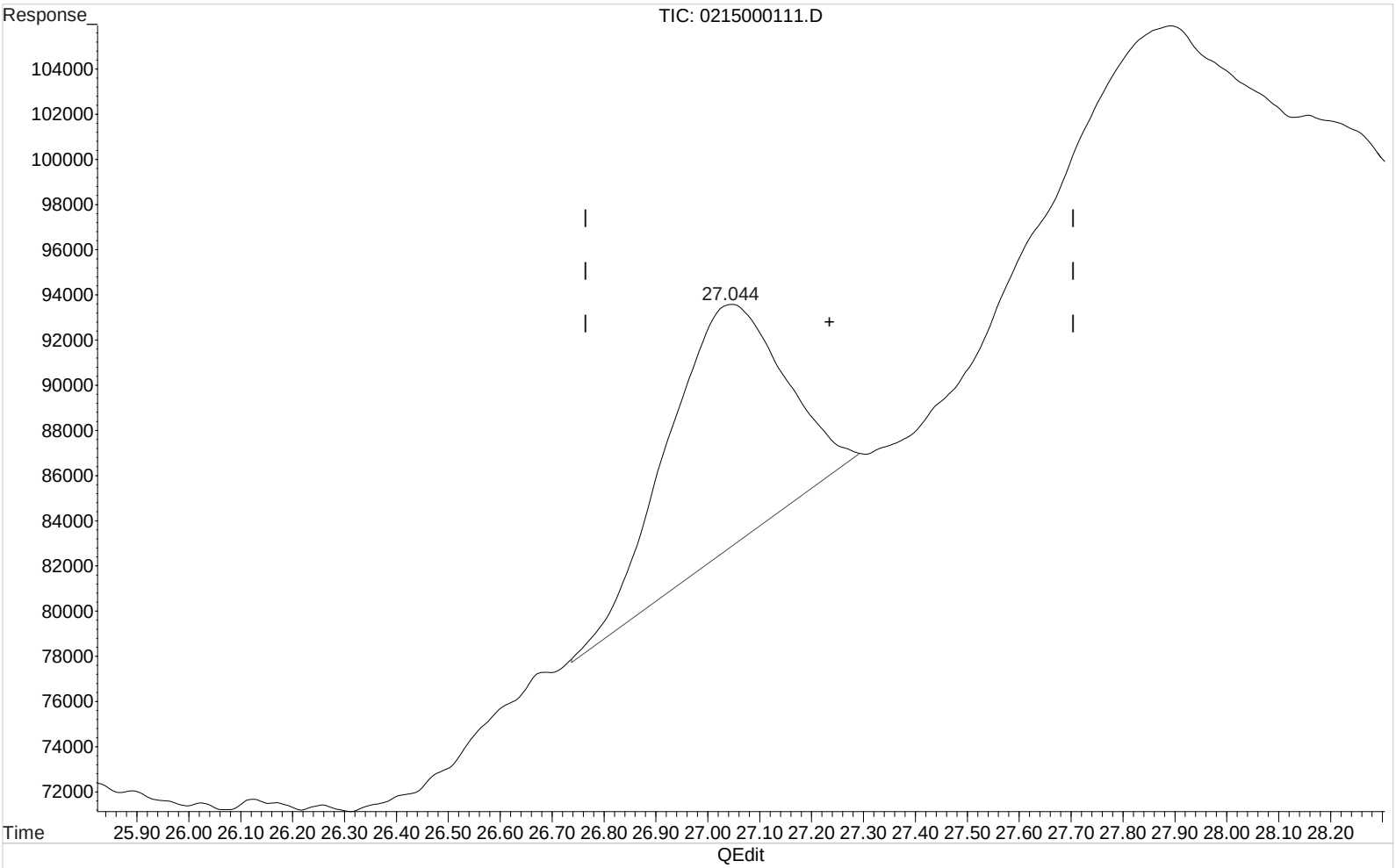
02/17/17

02/27/17

Data File : J:\LC10\Data\021517-254\0215000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 22:44:36 Operator: AE
Sample : K1701351-017 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 11:43:48 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.044min 8.493 ug/L m

response 171016

Manual Integration:

After

BLC

02/16/17

(+) = Expected Retention Time

(b) (6)

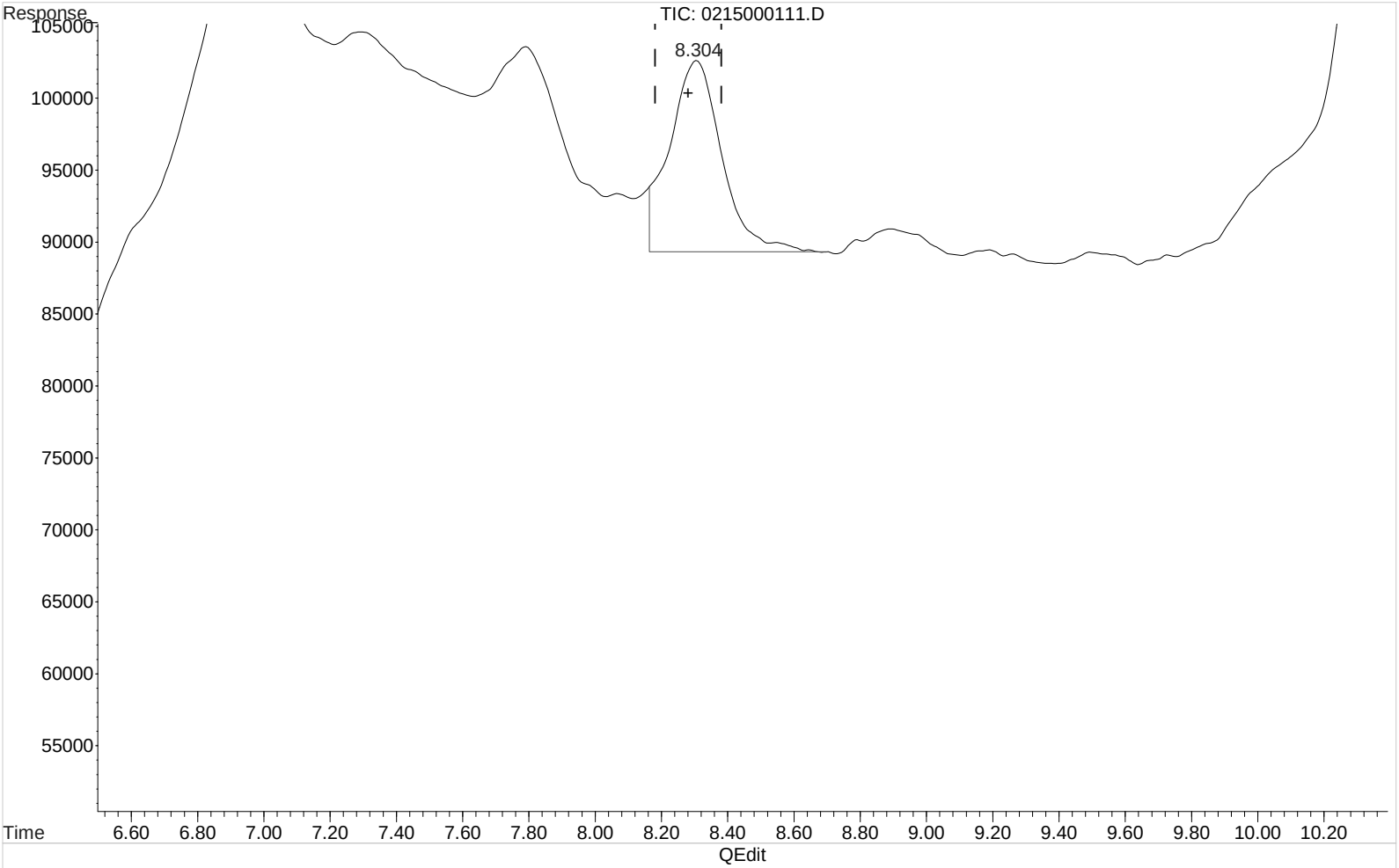
02/17/17

02/27/17

Data File : J:\LC10\Data\021517-254\0215000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 22:44:36 Operator: AE
Sample : K1701351-017 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:28:54 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(4) RDX (T)

8.304min 7.327 ug/L

response 145518

Manual Integration:

Before

02/16/17

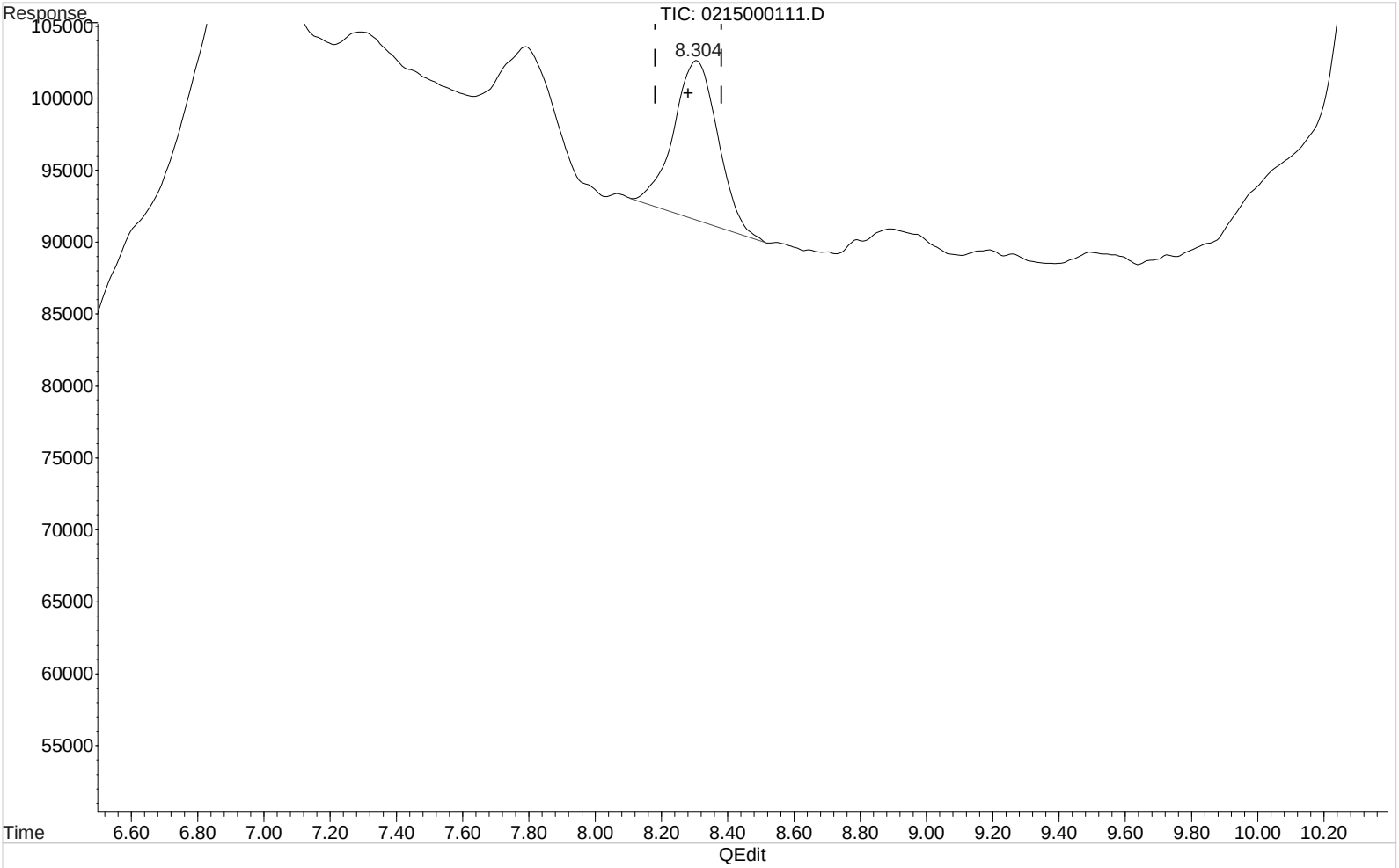
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\021517-254\0215000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 22:44:36 Operator: AE
Sample : K1701351-017 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:28:54 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(4) RDX (T)

8.304min 5.174 ug/L m

response 102760

Manual Integration:

After

BLC

02/16/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\021517-210\0215000111.D
Lab ID: K1701351-017
RunType: SMPL
Matrix: WATER

Date Acquired: 02/15/2017 22:44
Date Quantitated: 02/16/2017 13:19
Batch ID: KWG1701307
Analysis Method: 8330B
ListJoinID: LJ13249

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Duplicate Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\021517-210\0215000111.D			**Instrument:**	LC10
Acqu Date:	02/15/2017 22:44	**Quant Date:**	02/16/2017 13:19	**Vial:**	9
Run Type:	SMPL	**ListJoinID:**	LJ13249	**Dilution:**	1.0
Lab ID:	K1701351-017			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8330B NitramAro	**Collect Date:**	02/08/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701307	**Prep Lot:**	KWG1701217	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1586620	**Prep Date:**	02/14/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ13249
		Method ID:	MJ1278
MB Ref:	J:\LC10\DATA\021517-254\0215000106.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.55	0.02	208952479	3,675	73	23-98	OK	NR

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.48	0.03	319748**m**	15.34	0.58	U	
Pentaerythritol Tetranitrate			0**d**		0.65	U	

Prep Amount:	1030 ml	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-210\0215000111.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 22:44:36 Operator: AE
Sample : K1701351-017 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 13:19:44 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.550	208952479	3674.739	ug/L	
Target Compounds						
1) T	Nitroglycerin	16.477	319748	15.338	ug/L	m
2) T	PETN	0.000	0	N.D.	ug/L	d

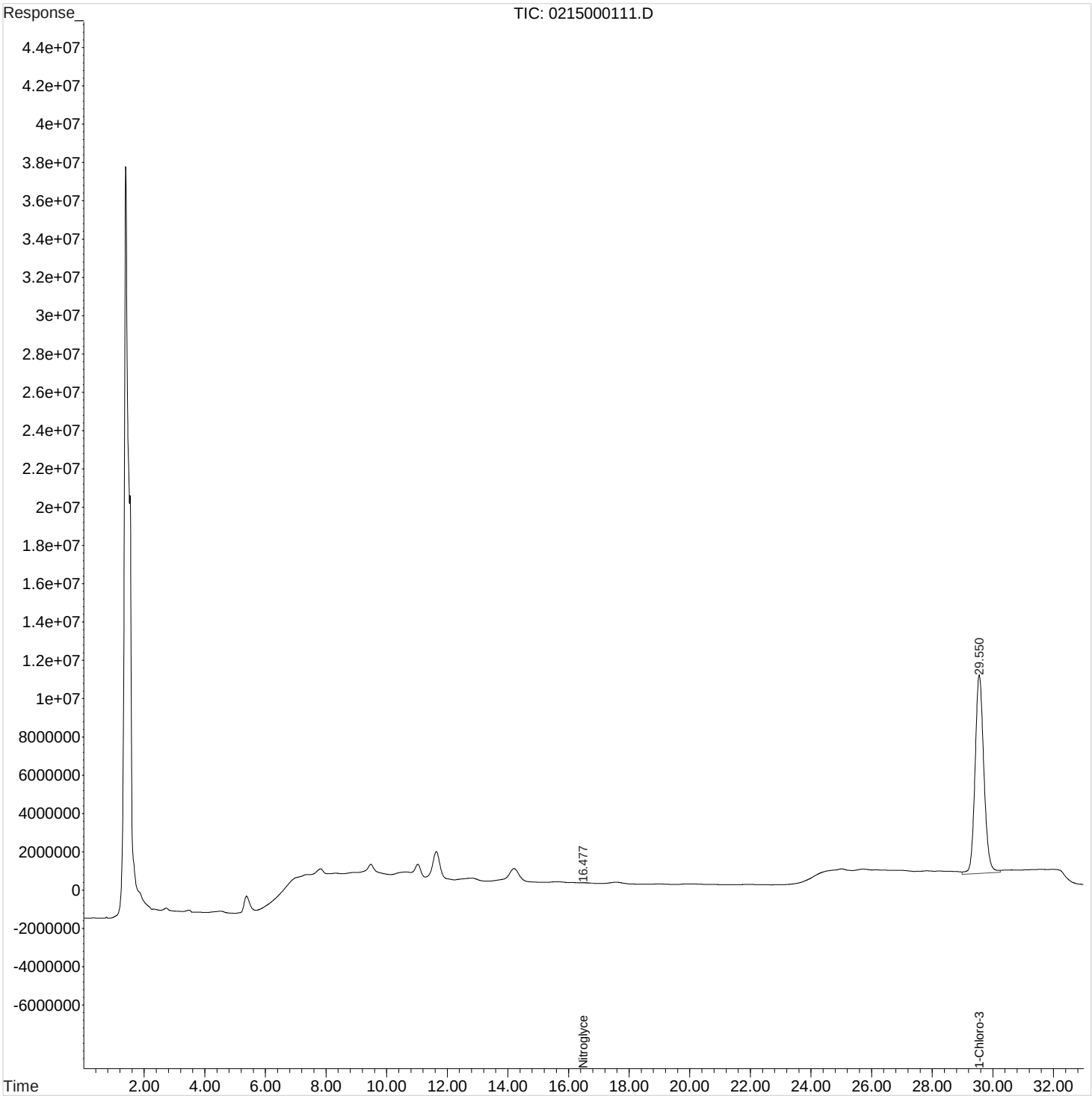
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-210\0215000111.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 22:44:36 Operator: AE
Sample : K1701351-017 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 13:19:44 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

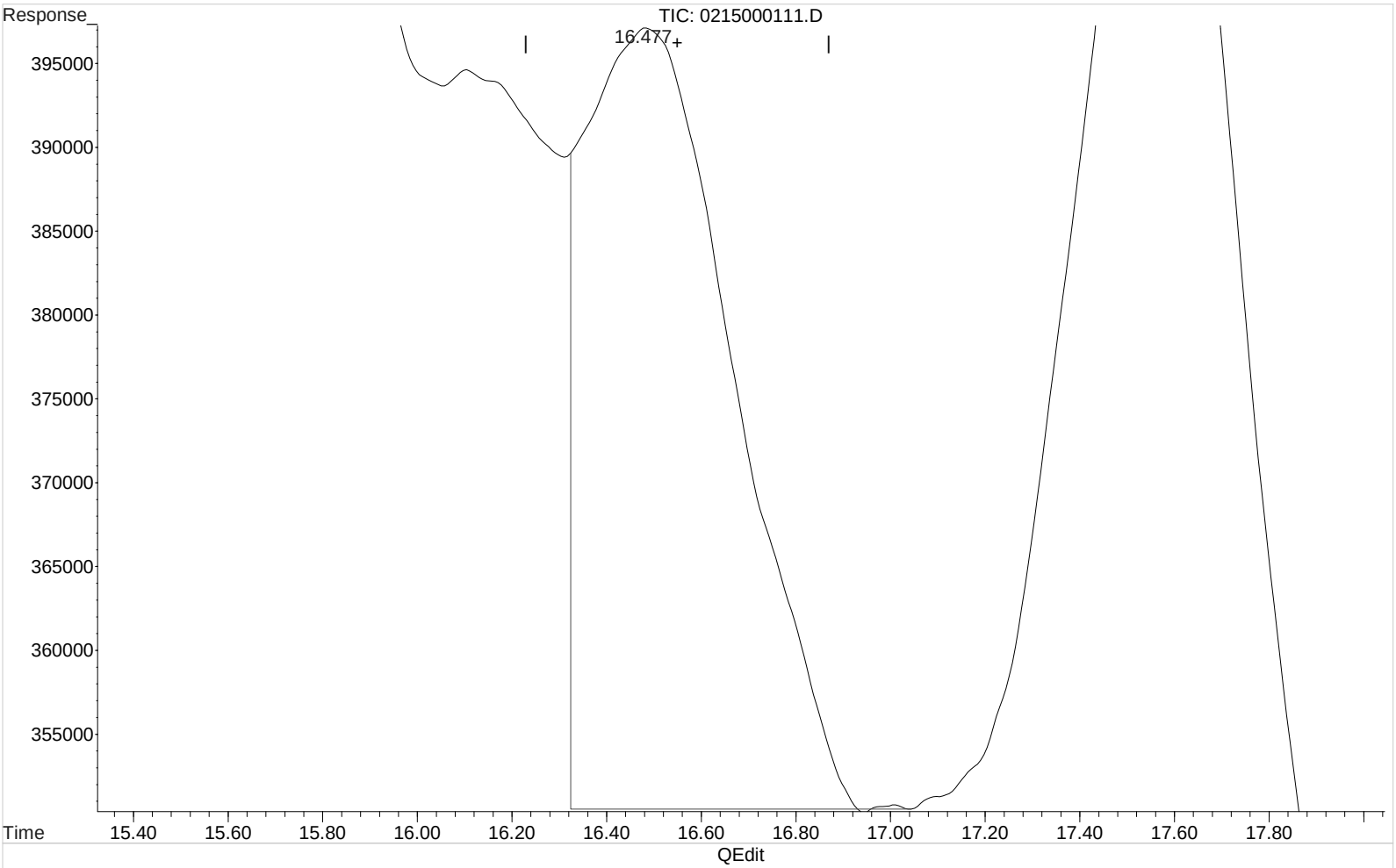


Quantitation Report (Qedit)

Data File : J:\LC10\Data\021517-210\0215000111.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 22:44:36 Operator: AE
Sample : K1701351-017 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 12:24:52 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.477min 48.644 ug/L

response 1014061

Manual Integration:

Before

02/16/17

(+) = Expected Retention Time

(b) (6)

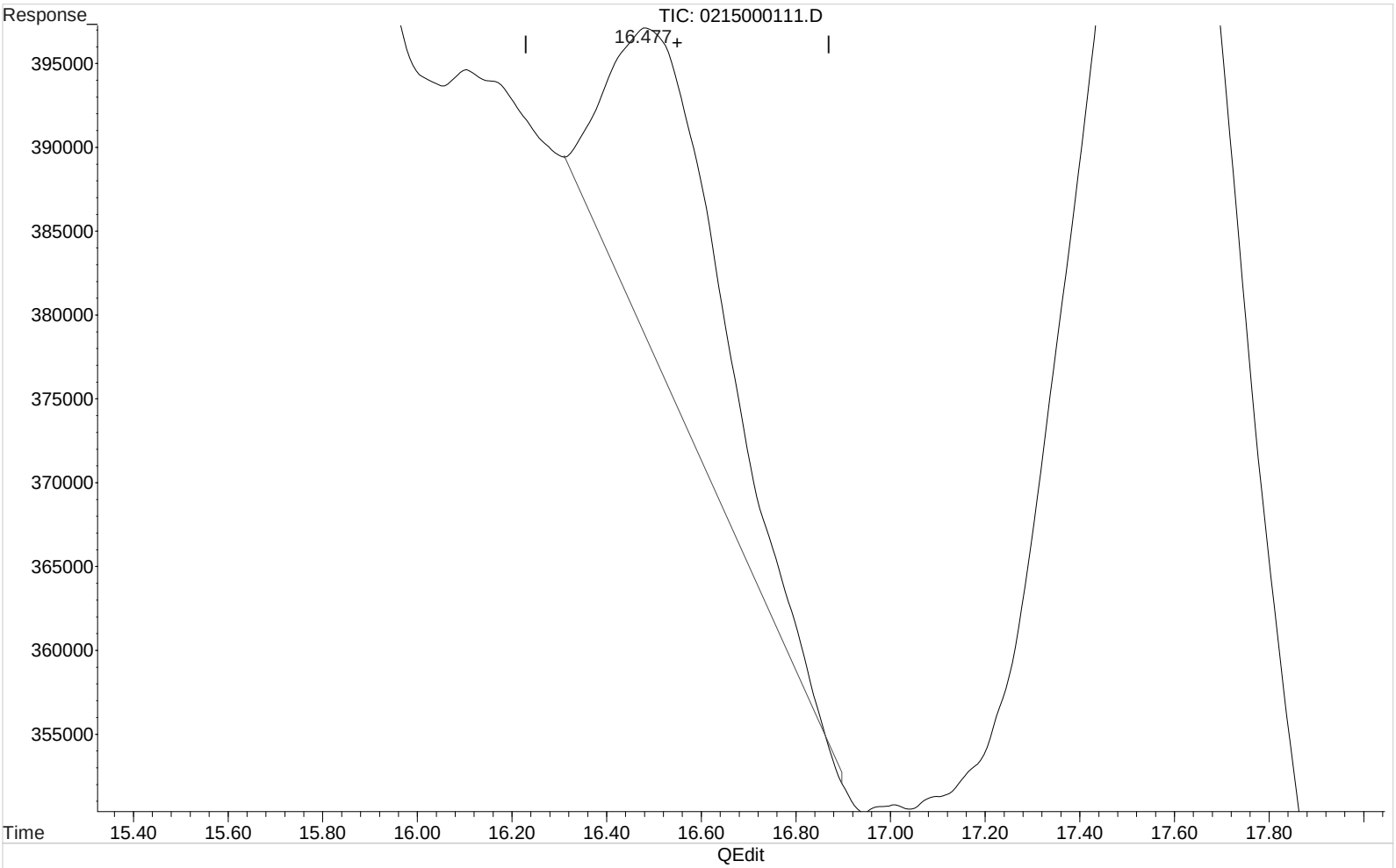
02/17/17

02/27/17

Data File : J:\LC10\Data\021517-210\0215000111.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 22:44:36 Operator: AE
Sample : K1701351-017 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 12:24:52 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.477min 15.338 ug/L m

response 319748

Manual Integration:

After

BLC

02/16/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC08\DATA\021617_XC-254\0216000107.D
Lab ID: K1701351-017
RunType: SMPL
Matrix: WATER

2-NT Not Confirmed

Date Acquired: 02/16/2017 14:55
Date Quantitated: 02/17/2017 10:25
Batch ID: KWG1701338
Analysis Method: 8330B
ListJoinID: LJ13249

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Duplicate Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC08\DATA\021617_XC-254\0216000107.D			**Instrument:**	LC08
Acqu Date:	02/16/2017 14:55	**Quant Date:**	02/17/2017 10:25	**Vial:**	6
Run Type:	SMPL	**ListJoinID:**	LJ13249	**Dilution:**	1.0
Lab ID:	K1701351-017			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8330B NitramAro	**Collect Date:**	02/08/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701338	**Prep Lot:**	KWG1701217	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1586620	**Prep Date:**	02/14/2017		

Quant Method:	J:\LC08\METHOD\020917_SHORT	**Calibration ID:**	CAL15192
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ13249
		Method ID:	MJ1278
MB Ref:	J:\LC10\DATA\021517-254\0215000106.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	8.13	0.04	95518848	3,630	73	23-98	OK	NR

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0		0.037	U	NR
RDX			0		0.11	U	NR
Nitrobenzene			0		0.027	U	NR
3,5-Dinitroaniline			0		0.084	U	NR
4-Amino-2,6-dinitrotoluene			0		0.032	U	NR
2-Nitrotoluene			0		0.032	U	
2-Amino-4,6-dinitrotoluene			0		0.034	U	NR
3-Nitrotoluene			0		0.034	U	NR
1,3-Dinitrobenzene			0**d**		0.046	U	NR
4-Nitrotoluene			0**d**		0.024	U	NR
2,6-Dinitrotoluene			0**d**		0.054	U	NR
2,4-Dinitrotoluene			0		0.085	U	NR
TETRYL			0		0.099	U	NR
1,3,5-Trinitrobenzene			0		0.14	U	NR
2,4,6-Trinitrotoluene			0		0.092	U	NR

Prep Amount:	1030 ml	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\021617_XC-254\0216000107.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 14:55:49 Operator: AE
Sample : K1701351-017 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:25:38 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Feb 17 10:20:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
11) S	1-Chloro-3-Nitrobenzene	8.133	95518848	3629.678	ug/L	
	Target Compounds					
1) T	HMX	0.000	0	N.D.	ug/L	
2) T	RDX	0.000	0	N.D.	ug/L	
3) T	Nitrobenzene	0.000	0	N.D.	ug/L	
4) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L	
5) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L	
6) T	2-NT	0.000	0	N.D.	ug/L	
7) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L	
8) T	3-NT	0.000	0	N.D.	ug/L	
9) T	1,3-DNB	0.000	0	N.D.	ug/L	d
10) T	4-NT	0.000	0	N.D.	ug/L	d
12) T	2,6-DNT	0.000	0	N.D.	ug/L	d
13) T	2,4-DNT	0.000	0	N.D.	ug/L	
14) T	Tetryl	0.000	0	N.D.	ug/L	
15) T	1,3,5-TNB	0.000	0	N.D.	ug/L	
16) T	2,4,6-TNT	0.000	0	N.D.	ug/L	

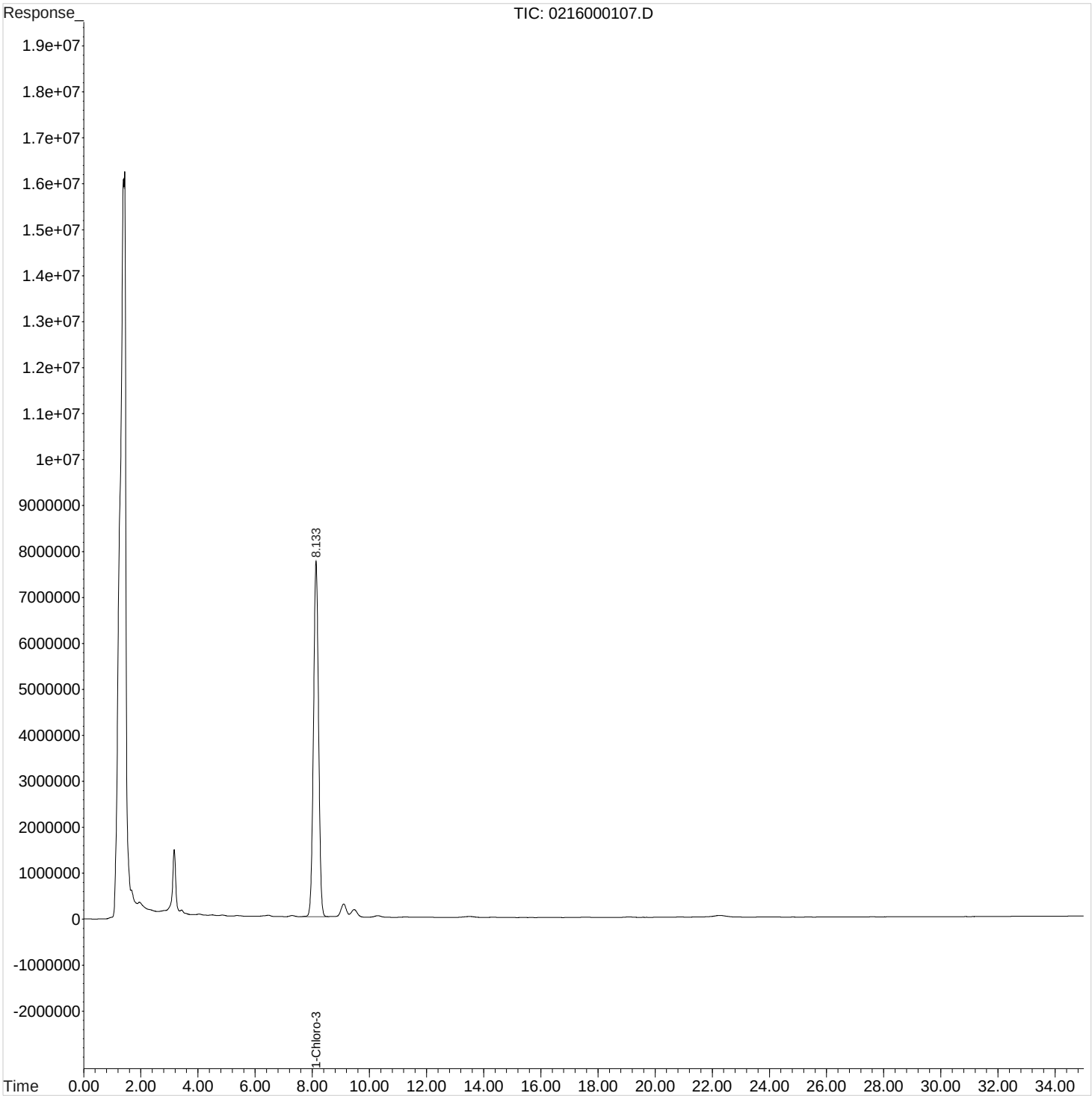
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\021617_XC-254\0216000107.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 14:55:49 Operator: AE
Sample : K1701351-017 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:25:38 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Feb 17 10:20:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



Exception Report

Data File: J:\LC10\DATA\021517-254\0215000112.D
Lab ID: K1701351-018
RunType: SMPL
Matrix: WATER

Date Acquired: 02/15/2017 23:20
Date Quantitated: 02/16/2017 11:54
Batch ID: KWG1701308
Analysis Method: 8330B
ListJoinID: LJ13249

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Duplicate Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\021517-254\0215000112.D			**Instrument:**	LC10
Acqu Date:	02/15/2017 23:20	**Quant Date:**	02/16/2017 11:54	**Vial:**	10
Run Type:	SMPL	**ListJoinID:**	LJ13249	**Dilution:**	1.0
Lab ID:	K1701351-018			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8330B NitramAro	**Collect Date:**	02/09/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701308	**Prep Lot:**	KWG1701217	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1586618	**Prep Date:**	02/14/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ13249
		Method ID:	MJ1278
MB Ref:	J:\LC10\DATA\021517-254\0215000106.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.58	0.05	71722245	3,319	66	23-98	OK	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0		0.037	U	
RDX			0		0.11	U	
1,3,5-Trinitrobenzene	10.41	0.02	217344	4.87	0.14	U	
1,3-Dinitrobenzene			0		0.046	U	
3,5-Dinitroaniline			0		0.084	U	
TETRYL			0		0.099	U	
Nitrobenzene			0		0.027	U	
2,4,6-Trinitrotoluene			0		0.092	U	
4-Amino-2,6-dinitrotoluene			0		0.032	U	
2-Amino-4,6-dinitrotoluene			0		0.034	U	
2,6-Dinitrotoluene			0		0.054	U	
2,4-Dinitrotoluene			0		0.085	U	
2-Nitrotoluene			0		0.032	U	
4-Nitrotoluene			0		0.024	U	
3-Nitrotoluene	27.06	-0.17	207514**m**	10.31	0.040	J	NR Need Confirm

Prep Amount:	1040 ml	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 23:20:53 Operator: AE
Sample : K1701351-018 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 11:54:55 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	29.582	71722245	3319.064	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	0.000	0	N.D.	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	0.000	0	N.D.	ug/L
5)	T	1,3,5-TNB	10.408	217344	4.866	ug/L
6)	T	1,3-DNB	0.000	0	N.D.	ug/L
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8)	T	Tetryl	0.000	0	N.D.	ug/L
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13)	T	2,6-DNT	0.000	0	N.D.	ug/L
14)	T	2,4-DNT	0.000	0	N.D.	ug/L
15)	T	2-NT	0.000	0	N.D.	ug/L
16)	T	4-NT	0.000	0	N.D.	ug/L
17)	T	3-NT	27.055	207514	10.306	ug/L m

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] (6) (b) 2/17/17 2/27/17

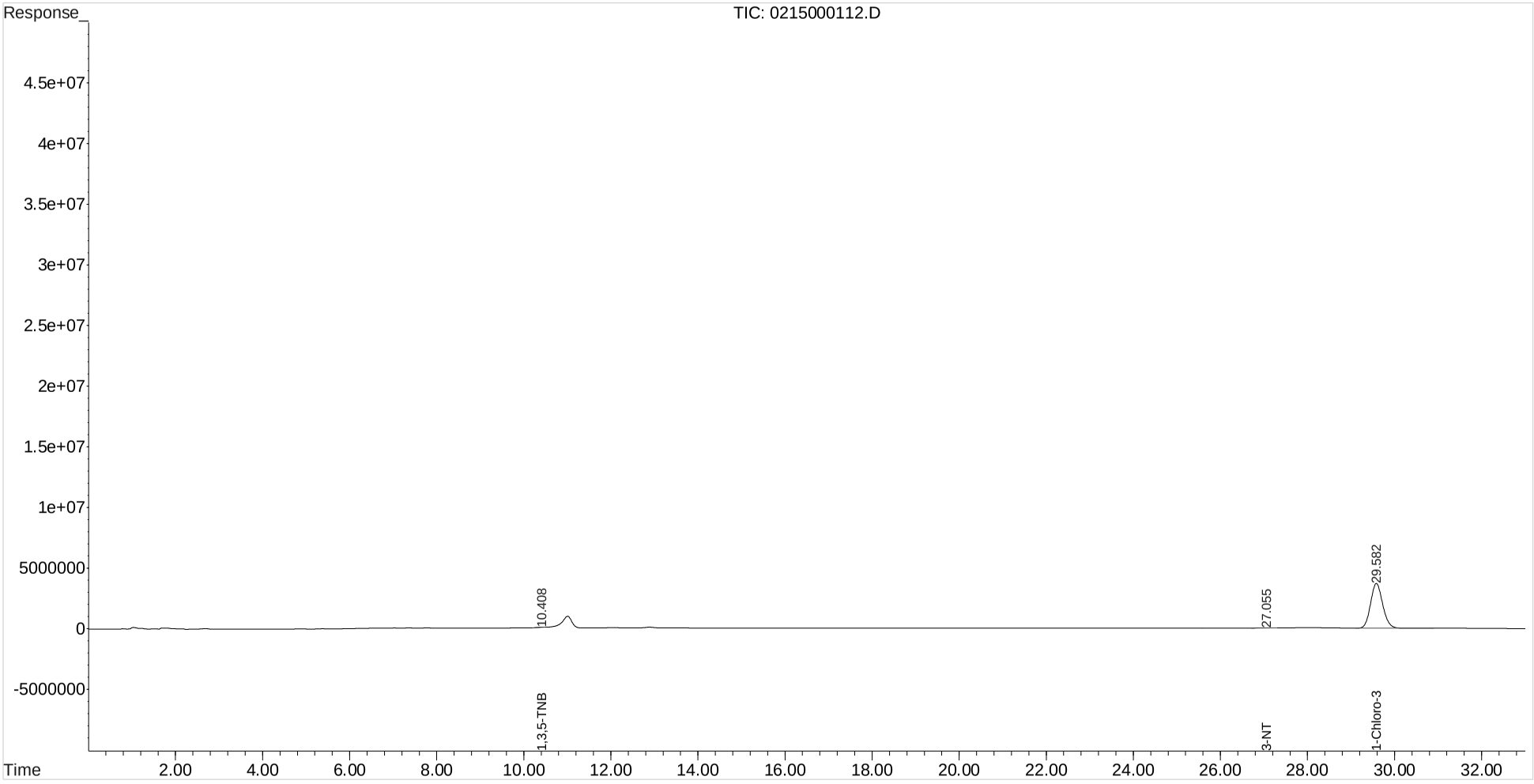
11/01/2018

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 23:20:53 Operator: AE
Sample : K1701351-018 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 11:54:55 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(b) (6)

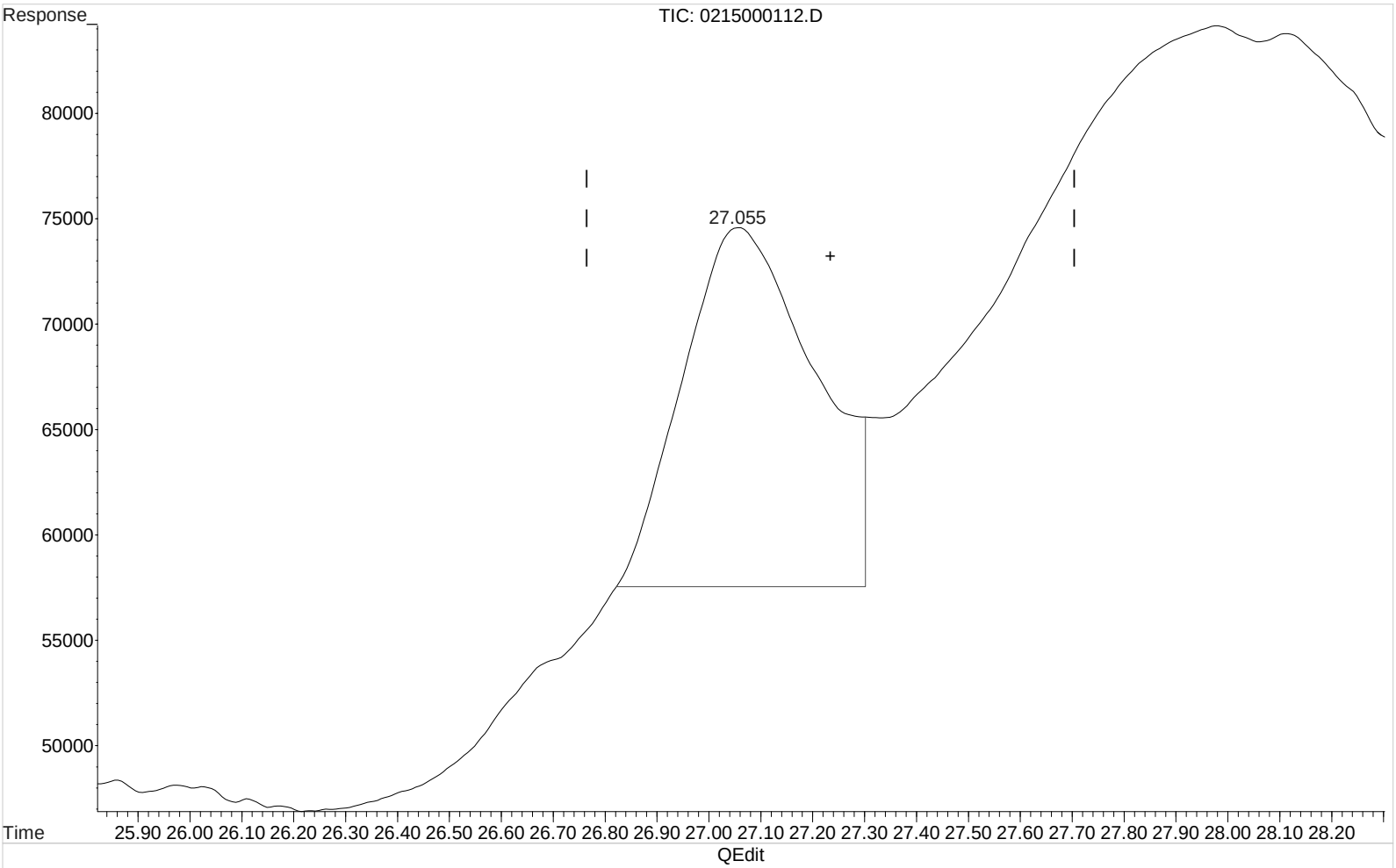
02/17/17

02/27/17

Data File : J:\LC10\Data\021517-254\0215000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 23:20:53 Operator: AE
Sample : K1701351-018 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:28:56 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.055min 15.024 ug/L

response 302522

Manual Integration:

Before

02/16/17

(+) = Expected Retention Time

(b) (6)

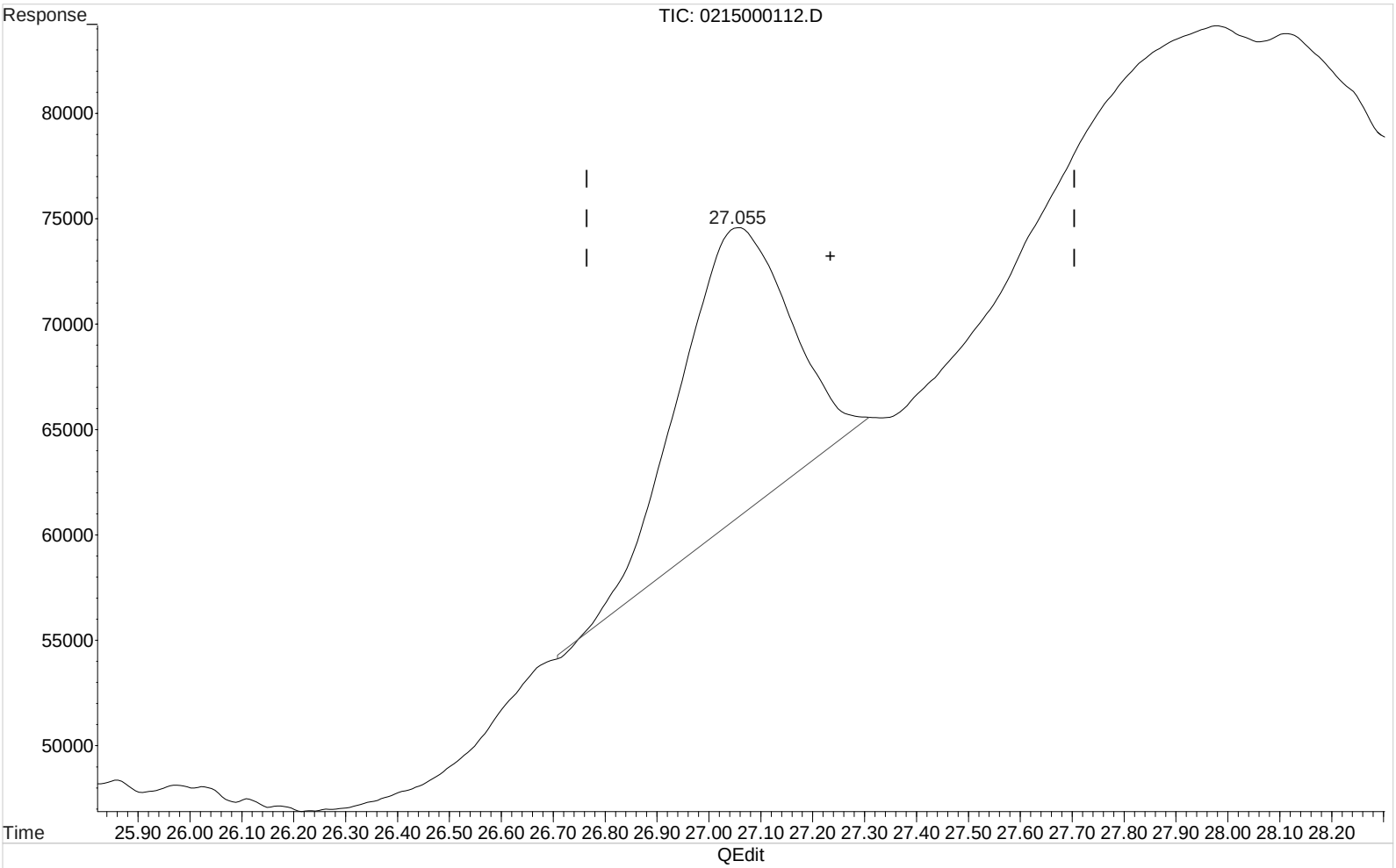
02/17/17

02/27/17

Data File : J:\LC10\Data\021517-254\0215000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 23:20:53 Operator: AE
Sample : K1701351-018 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:28:56 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.055min 10.306 ug/L m

response 207514

Manual Integration:

After

BLC

02/16/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\021517-210\0215000112.D
Lab ID: K1701351-018
RunType: SMPL
Matrix: WATER

Date Acquired: 02/15/2017 23:20
Date Quantitated: 02/16/2017 13:19
Batch ID: KWG1701307
Analysis Method: 8330B
ListJoinID: LJ13249

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Duplicate Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\021517-210\0215000112.D			**Instrument:**	LC10
Acqu Date:	02/15/2017 23:20	**Quant Date:**	02/16/2017 13:19	**Vial:**	10
Run Type:	SMPL	**ListJoinID:**	LJ13249	**Dilution:**	1.0
Lab ID:	K1701351-018			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8330B NitramAro	**Collect Date:**	02/09/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701307	**Prep Lot:**	KWG1701217	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1586618	**Prep Date:**	02/14/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ13249
		Method ID:	MJ1278
MB Ref:	J:\LC10\DATA\021517-254\0215000106.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.58	0.05	190617000	3,352	67	23-98	OK	NR

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**		0.58	U	
Pentaerythritol Tetranitrate	27.65	0.18	113511**m**	6.45	0.65	U	

Prep Amount:	1040 ml	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-210\0215000112.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 23:20:53 Operator: AE
Sample : K1701351-018 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 13:19:59 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.582	190617000	3352.283	ug/L	
Target Compounds						
1) T	Nitroglycerin	0.000	0	N.D.	ug/L	d
2) T	PETN	27.648	113511	6.451	ug/L	m

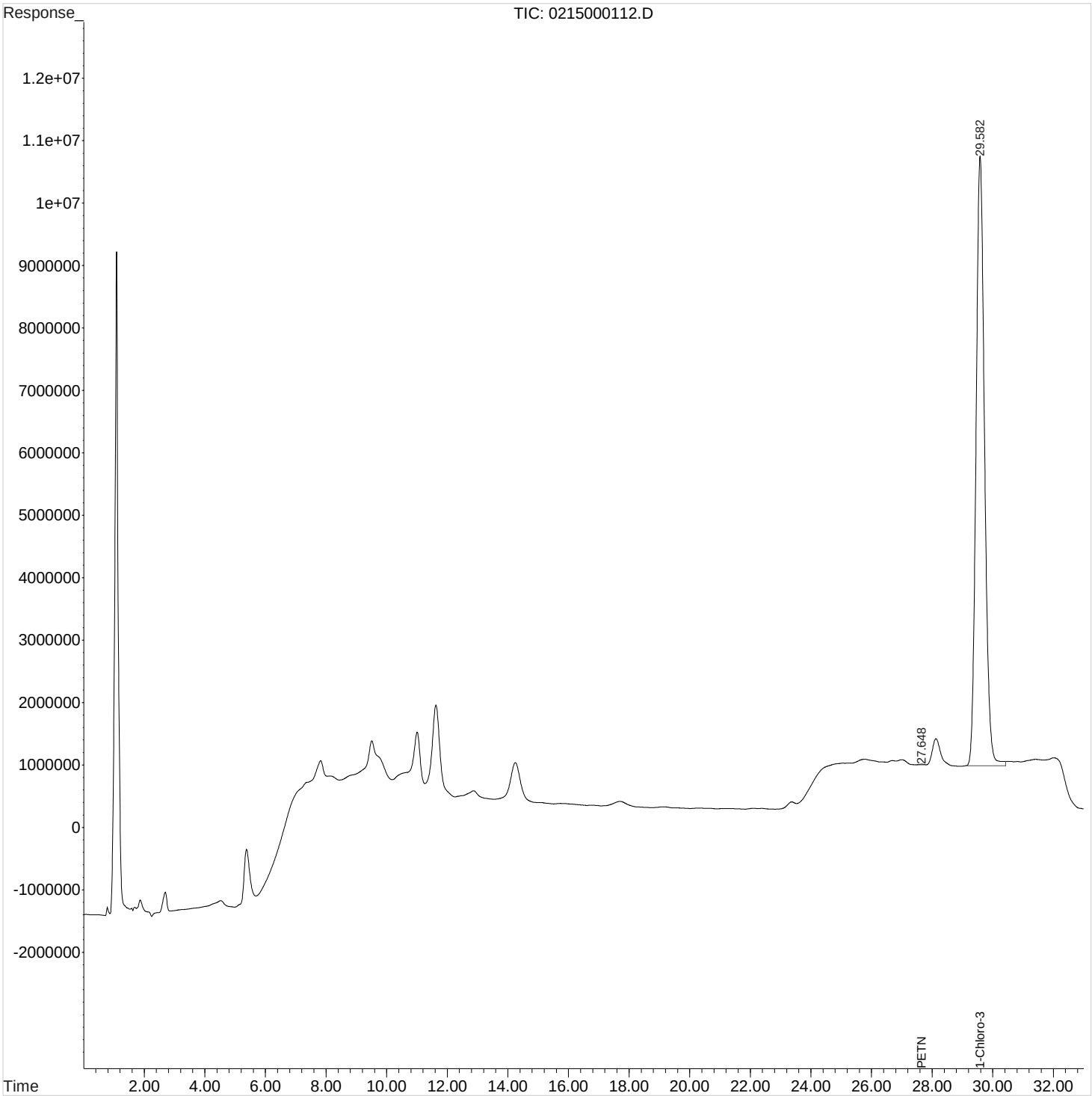
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-210\0215000112.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 23:20:53 Operator: AE
Sample : K1701351-018 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 13:19:59 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(b) (6)

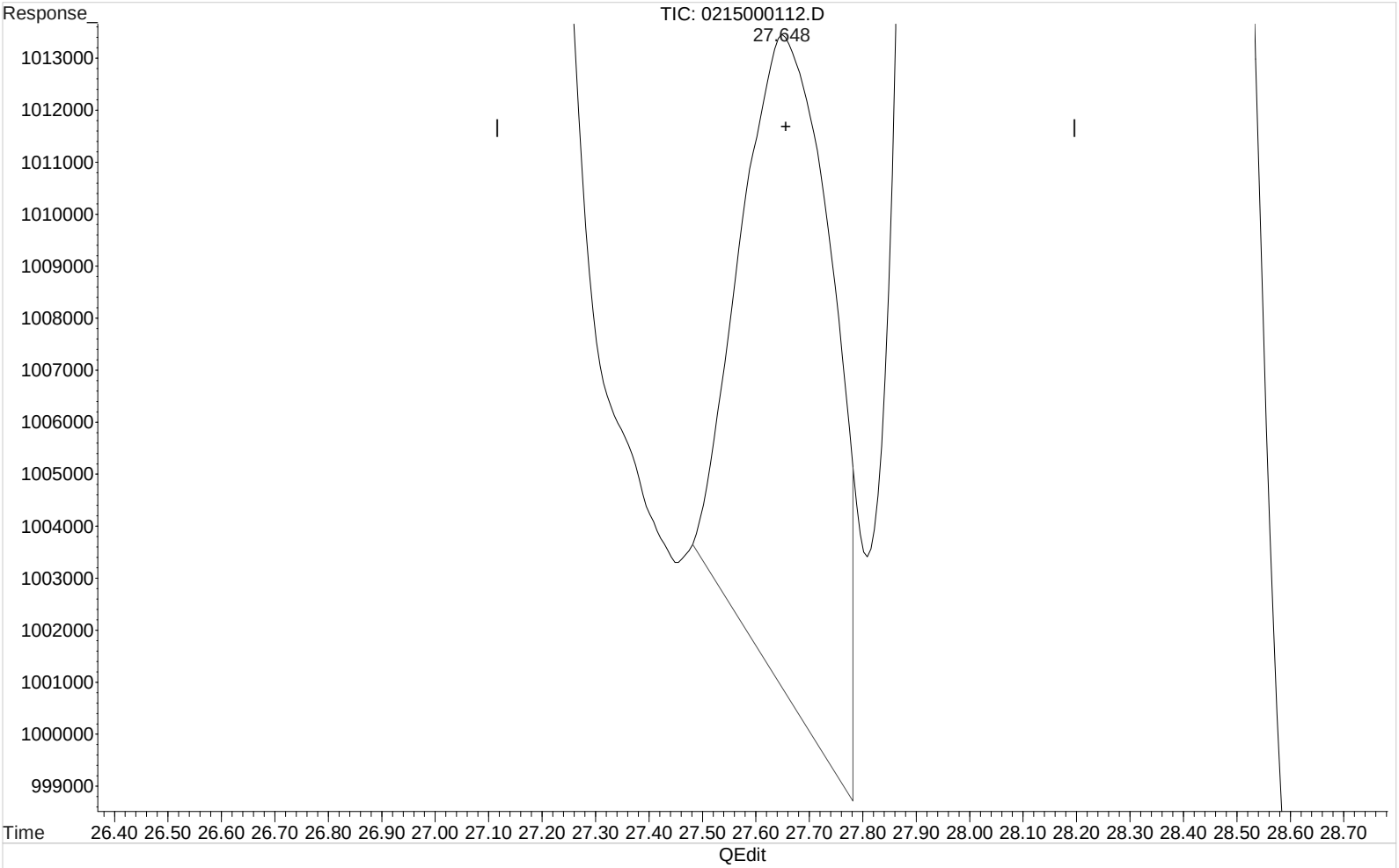
2/17/17

2/27/17

Data File : J:\LC10\Data\021517-210\0215000112.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 23:20:53 Operator: AE
Sample : K1701351-018 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 12:24:54 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.648min 8.598 ug/L

response 151292

Manual Integration:

Before

02/16/17

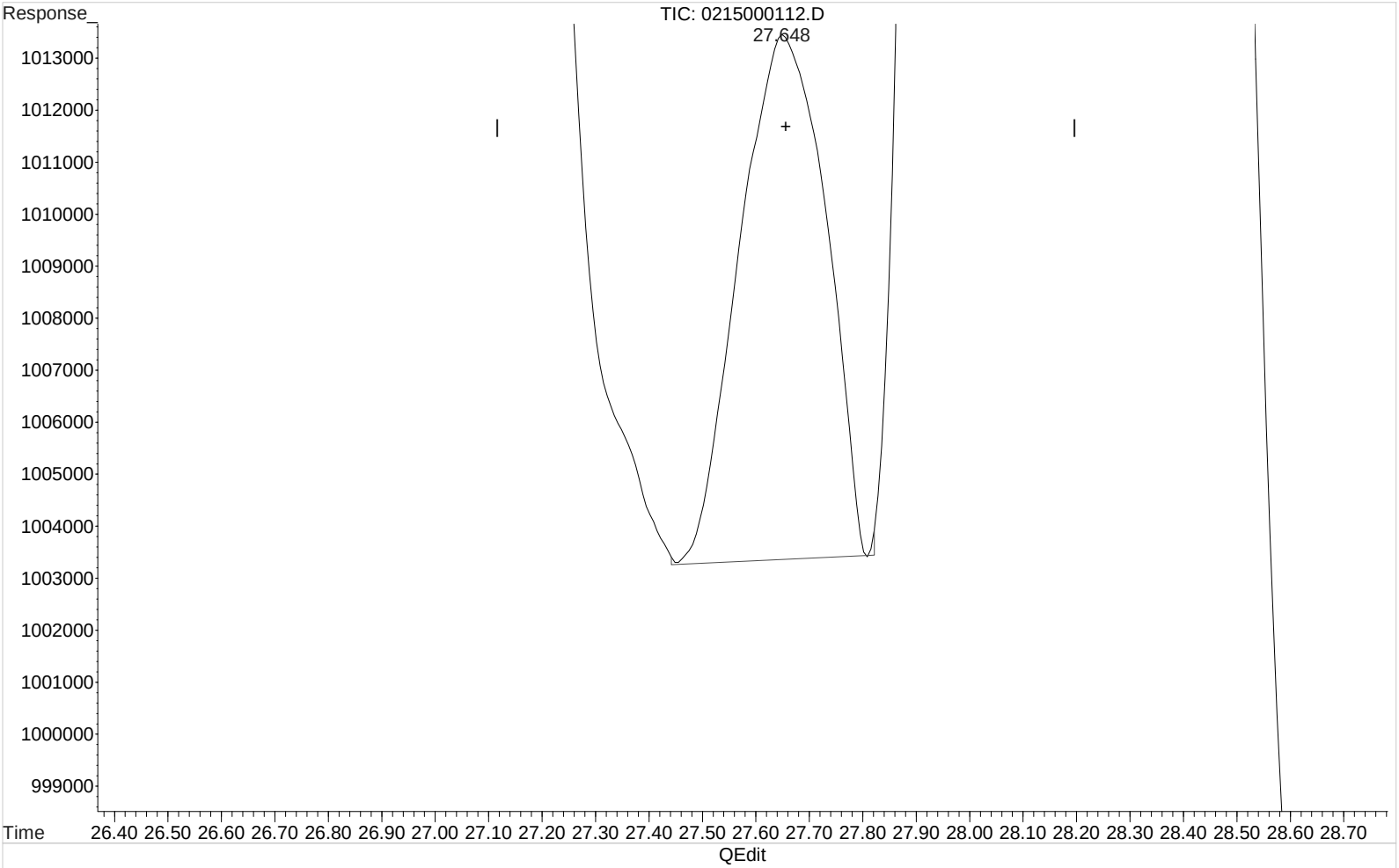
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\021517-210\0215000112.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 23:20:53 Operator: AE
Sample : K1701351-018 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 12:24:54 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.648min 6.451 ug/L m

response 113511

Manual Integration:

After

BLC

02/16/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC08\DATA\021617_XC-254\0216000108.D
Lab ID: K1701351-018
RunType: SMPL
Matrix: WATER

Date Acquired: 02/16/2017 15:32
Date Quantitated: 02/17/2017 10:26
Batch ID: KWG1701338
Analysis Method: 8330B
ListJoinID: LJ13249

Sample Exceptions

3-NT Not Confirmed

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Method Blank	NA	NA	NA	x	
MB Surrogate Recovery	NA	NA	NA	x	
Lab Control Spike	NA	NA	NA	x	
Duplicate Lab Control Spike	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC08\DATA\021617_XC-254\0216000108.D			**Instrument:**	LC08
Acqu Date:	02/16/2017 15:32	**Quant Date:**	02/17/2017 10:26	**Vial:**	7
Run Type:	SMPL	**ListJoinID:**	LJ13249	**Dilution:**	1.0
Lab ID:	K1701351-018			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**	IV	**Matrix:**	WATER
Prod Code:	8330B NitramAro	**Collect Date:**	02/09/2017	**Receive Date:**	02/10/2017

Analysis Lot:	KWG1701338	**Prep Lot:**	KWG1701217	**Report Group:**	K1701351
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1586618	**Prep Date:**	02/14/2017		

Quant Method:	J:\LC08\METHOD\020917_SHORT	**Calibration ID:**	CAL15192
Title:	Nitroaromatics and Nitramines (Explosives)	**Report List ID:**	LJ13249
		Method ID:	MJ1278
MB Ref:	J:\LC10\DATA\021517-254\0215000106.D	**Quant based on Report List**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	8.12	0.03	89212970	3,390	68	23-98	OK	NR

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0		0.037	U	NR
RDX			0		0.11	U	NR
Nitrobenzene			0		0.027	U	NR
3,5-Dinitroaniline			0		0.084	U	NR
4-Amino-2,6-dinitrotoluene			0		0.032	U	NR
2-Nitrotoluene			0		0.032	U	NR
2-Amino-4,6-dinitrotoluene			0**d**		0.034	U	NR
3-Nitrotoluene	6.89	-0.06	45503**m**	1.63	0.034	U	
1,3-Dinitrobenzene			0**d**		0.046	U	NR
4-Nitrotoluene			0**d**		0.024	U	NR
2,6-Dinitrotoluene			0**d**		0.054	U	NR
2,4-Dinitrotoluene			0		0.085	U	NR
TETRYL			0		0.099	U	NR
1,3,5-Trinitrobenzene			0		0.14	U	NR
2,4,6-Trinitrotoluene			0		0.092	U	NR

Prep Amount:	1040 ml	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\021617_XC-254\0216000108.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 15:32:40 Operator: AE
Sample : K1701351-018 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:26:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Feb 17 10:20:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds							
11)	S	1-Chloro-3-Nitrobenzene	8.120	89212970	3390.057	ug/L	
Target Compounds							
1)	T	HMX	0.000	0	N.D.	ug/L	
2)	T	RDX	0.000	0	N.D.	ug/L	
3)	T	Nitrobenzene	0.000	0	N.D.	ug/L	
4)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L	
5)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L	
6)	T	2-NT	0.000	0	N.D.	ug/L	
7)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L	d
8)	T	3-NT	6.887	45503	1.628	ug/L	m
9)	T	1,3-DNB	0.000	0	N.D.	ug/L	d
10)	T	4-NT	0.000	0	N.D.	ug/L	d
12)	T	2,6-DNT	0.000	0	N.D.	ug/L	d
13)	T	2,4-DNT	0.000	0	N.D.	ug/L	
14)	T	Tetryl	0.000	0	N.D.	ug/L	
15)	T	1,3,5-TNB	0.000	0	N.D.	ug/L	
16)	T	2,4,6-TNT	0.000	0	N.D.	ug/L	

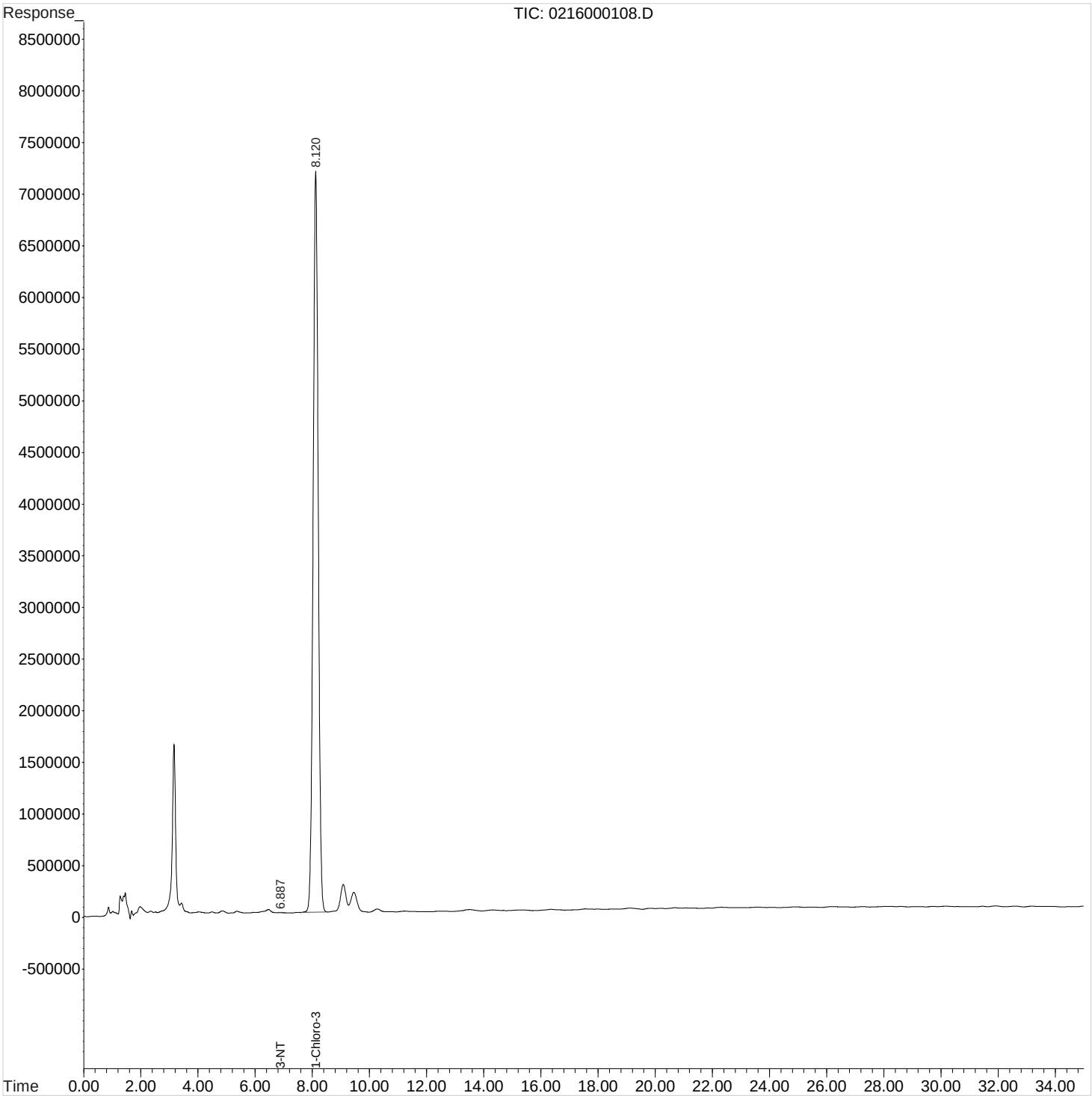
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\021617_XC-254\0216000108.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 15:32:40 Operator: AE
Sample : K1701351-018 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:26:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Feb 17 10:20:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

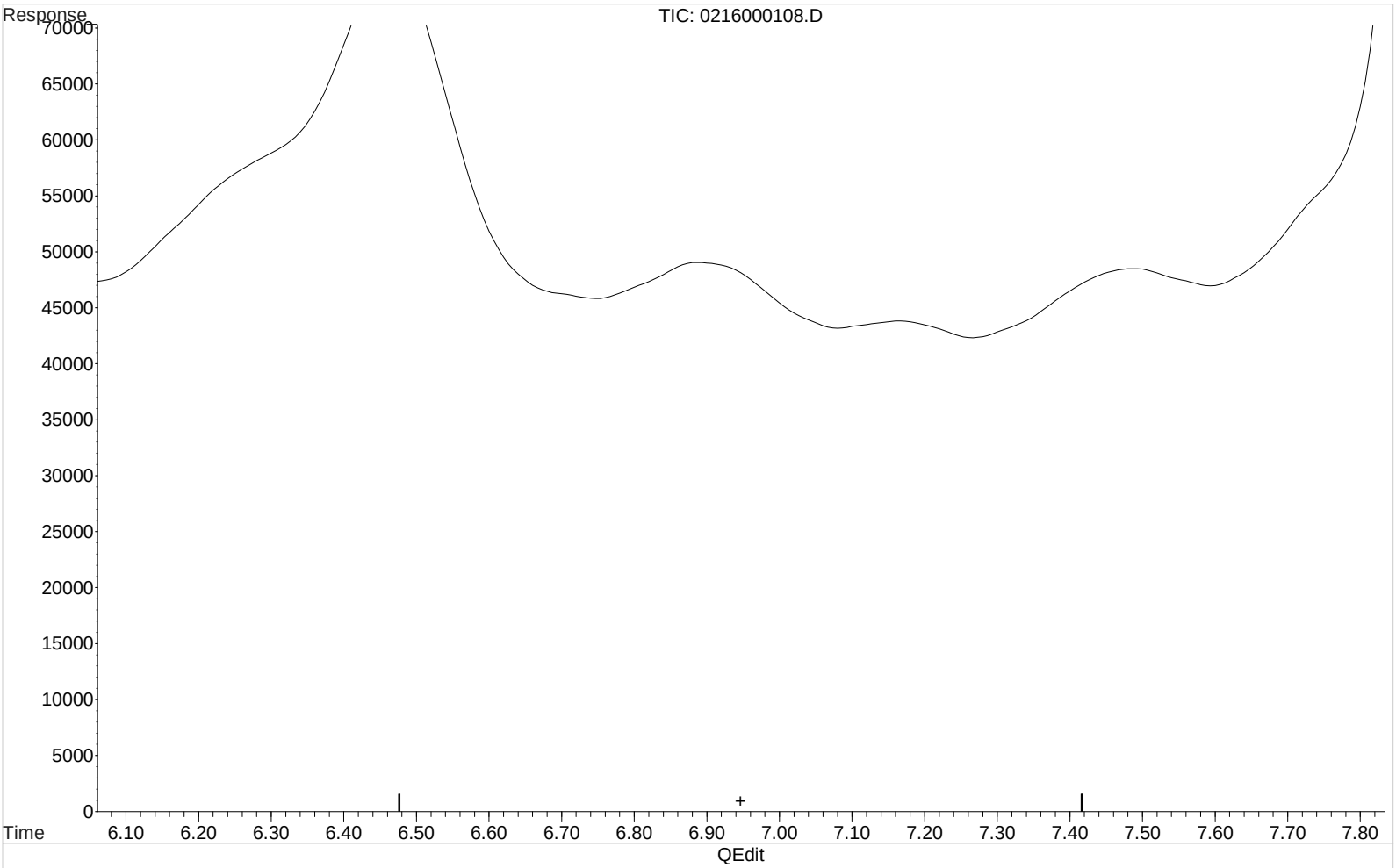


Quantitation Report (Qedit)

Data File : J:\LC08\Data\021617_XC-254\0216000108.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 15:32:40 Operator: AE
Sample : K1701351-018 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:20:52 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Feb 17 10:20:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(8) 3-NT (T)

6.947min 0.000 ug/L

response 0

Manual Integration:

Before

02/17/17

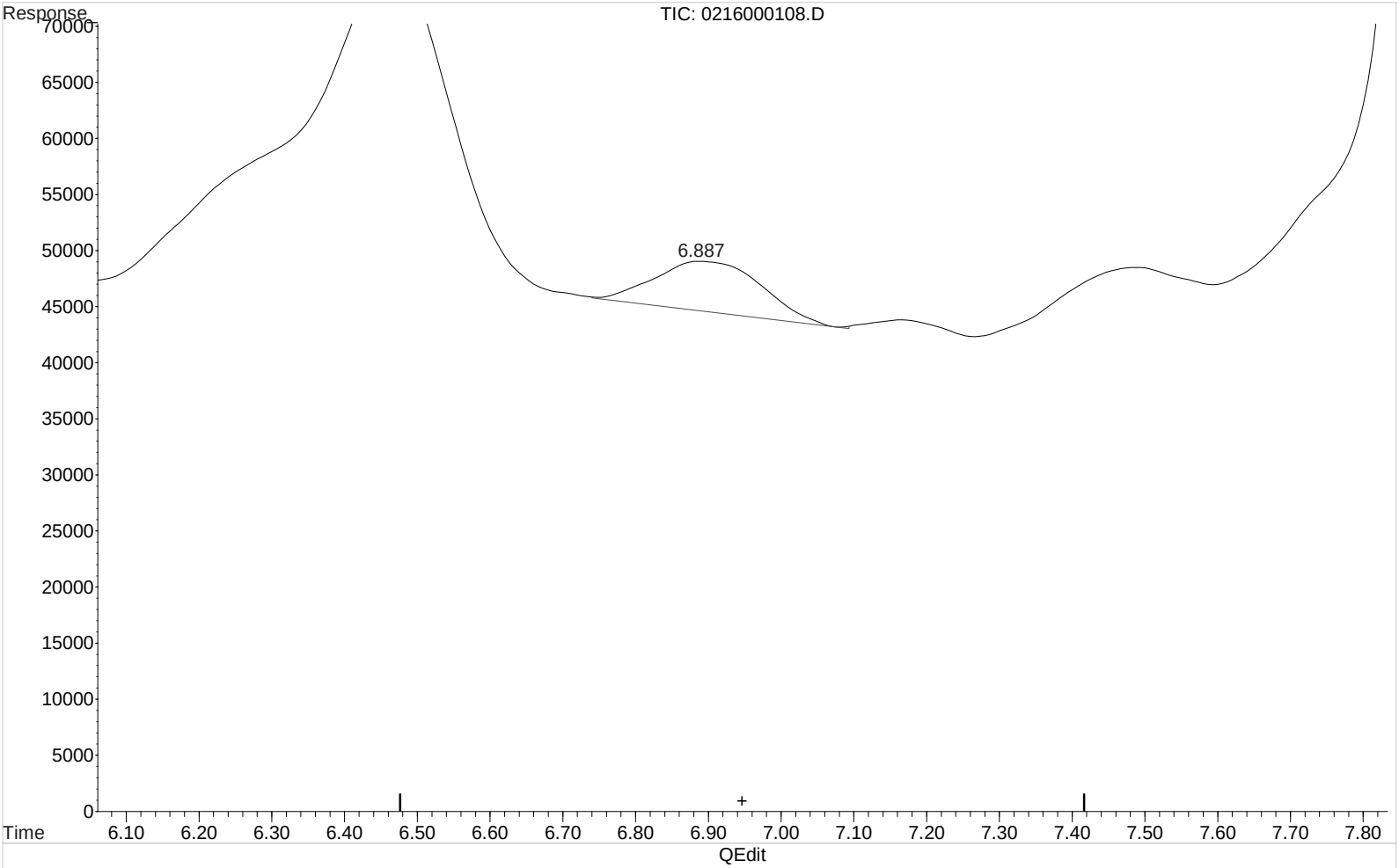
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\021617_XC-254\0216000108.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 15:32:40 Operator: AE
Sample : K1701351-018 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:20:52 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Feb 17 10:20:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(8) 3-NT (T)

6.887min 1.628 ug/L m

response 45503

Manual Integration:

After

MP

02/17/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\021517-254\0215000106.D
Lab ID: KWG1701217-3
RunType: MB
Matrix: WATER

Date Acquired: 02/15/2017 19:43
Date Quantitated: 02/16/2017 11:38
Batch ID: KWG1701308
Analysis Method: 8330B
MethodJoinID: MJ1278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\021517-254\0215000106.D			**Instrument:**	LC10
Acqu Date:	02/15/2017 19:43	**Quant Date:**	02/16/2017 11:38	**Vial:**	4
Run Type:	MB	**MethodJoinID:**	MJ1278	**Dilution:**	1.0
Lab ID:	KWG1701217-3			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8330B NitramAro	**Collect Date:**		**Receive Date:**	02/15/2017

Analysis Lot:	KWG1701308	**Prep Lot:**	KWG1701217	**Report Group:**	
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1586623	**Prep Date:**	02/14/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:		**Method ID:**	MJ1278
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.59	0.06	76412365	3,536	71	23-98	OK	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0		0.037	U	
RDX			0		0.11	U	
1,3,5-Trinitrobenzene	10.38	-0.01	924986	20.71	0.14	U	
1,3-Dinitrobenzene			0		0.046	U	
3,5-Dinitroaniline			0		0.084	U	
TETRYL			0		0.099	U	
Nitrobenzene			0		0.027	U	
2,4,6-Trinitrotoluene			0		0.092	U	
4-Amino-2,6-dinitrotoluene			0		0.032	U	
2-Amino-4,6-dinitrotoluene			0		0.034	U	
2,6-Dinitrotoluene			0		0.054	U	
2,4-Dinitrotoluene	21.85	-0.15	252080**m**	4.26	0.085	U	
2-Nitrotoluene			0		0.032	U	
4-Nitrotoluene			0		0.024	U	
3-Nitrotoluene	27.06	-0.17	202451**m**	10.05	0.0402	J	NR

Need Confirm

Prep Amount:	1000 ml	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 19:43:33 Operator: AE
Sample : KWG1701217-3 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 11:38:10 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
18)	S	1-Chloro-3-Nitrobenzene	29.593	76412365	3536.107	ug/L	
		Target Compounds					
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	0.000	0	N.D.	ug/L	
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	0.000	0	N.D.	ug/L	
5)	T	1,3,5-TNB	10.380	924986	20.709	ug/L	
6)	T	1,3-DNB	0.000	0	N.D.	ug/L	
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L	
8)	T	Tetryl	0.000	0	N.D.	ug/L	
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L	
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L	
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L	
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L	
13)	T	2,6-DNT	0.000	0	N.D.	ug/L	
14)	T	2,4-DNT	21.846	252080	4.256	ug/L	m
15)	T	2-NT	0.000	0	N.D.	ug/L	
16)	T	4-NT	0.000	0	N.D.	ug/L	
17)	T	3-NT	27.060	202451	10.054	ug/L	m

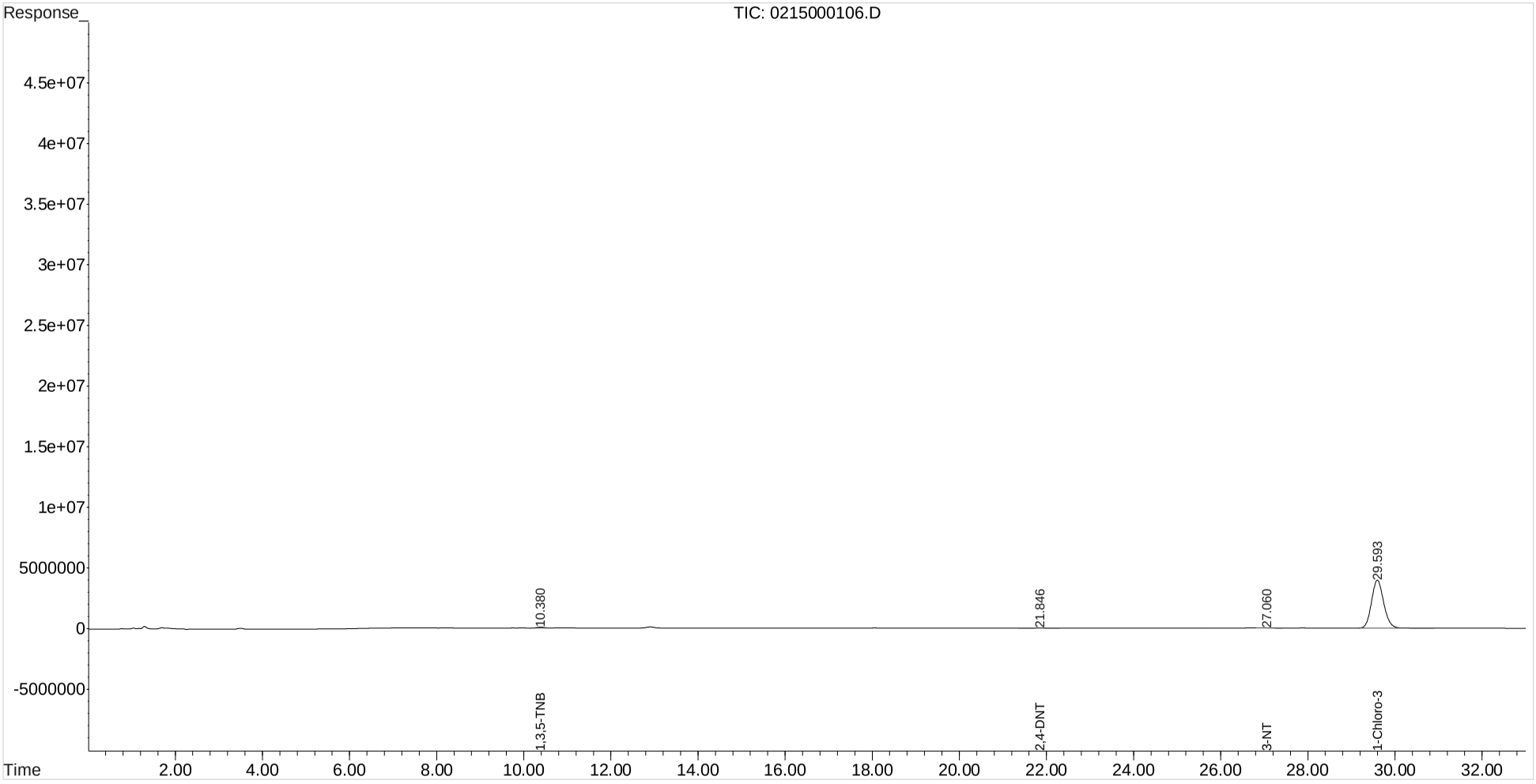
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 19:43:33 Operator: AE
Sample : KWG1701217-3 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 11:38:10 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



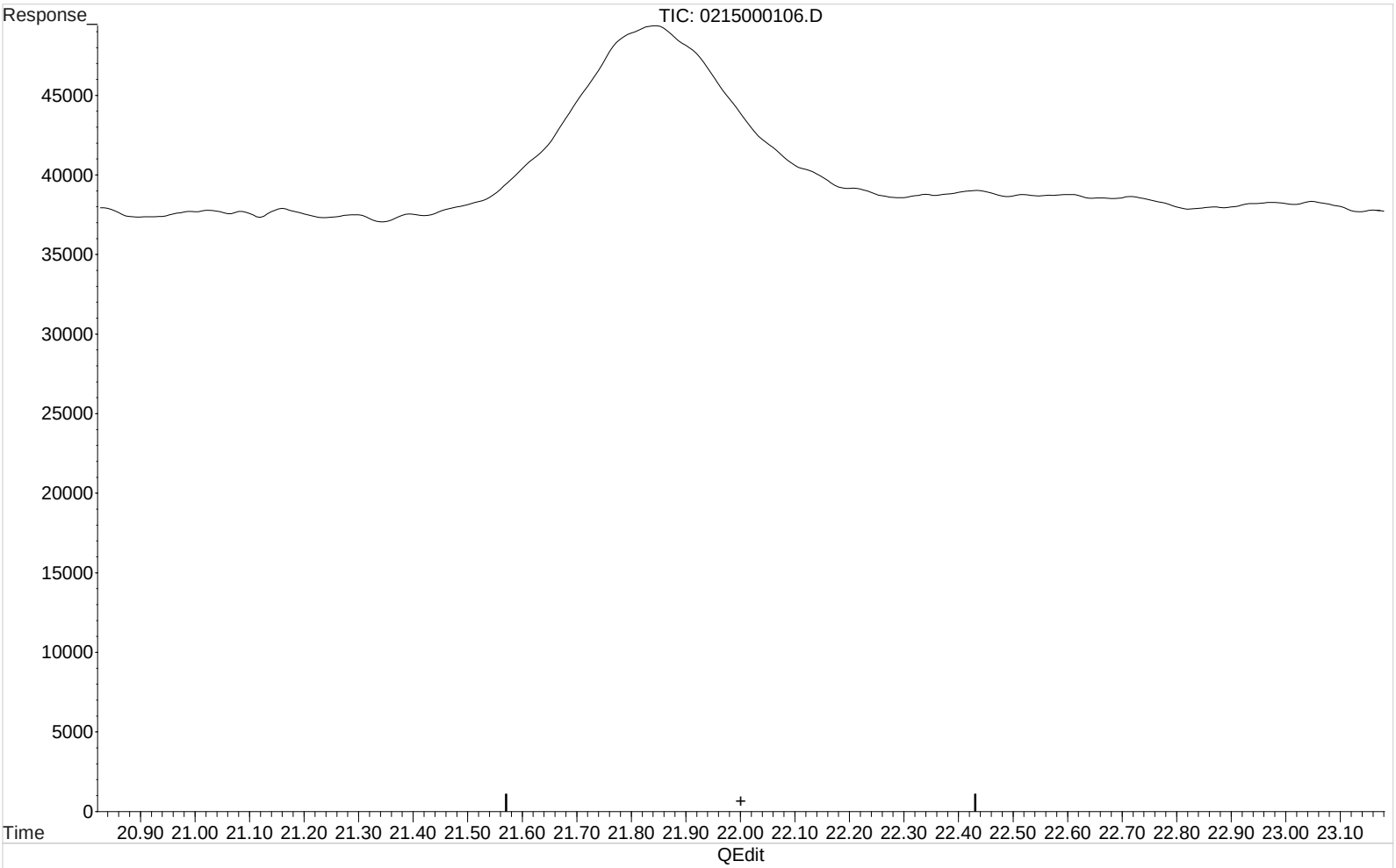
012273

Quantitation Report (Qedit)

Data File : J:\LC10\Data\021517-254\0215000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 19:43:33 Operator: AE
Sample : KWG1701217-3 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:28:44 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.001min 0.000 ug/L

response 0

Manual Integration:

Before

02/16/17

(+) = Expected Retention Time

(b) (6)

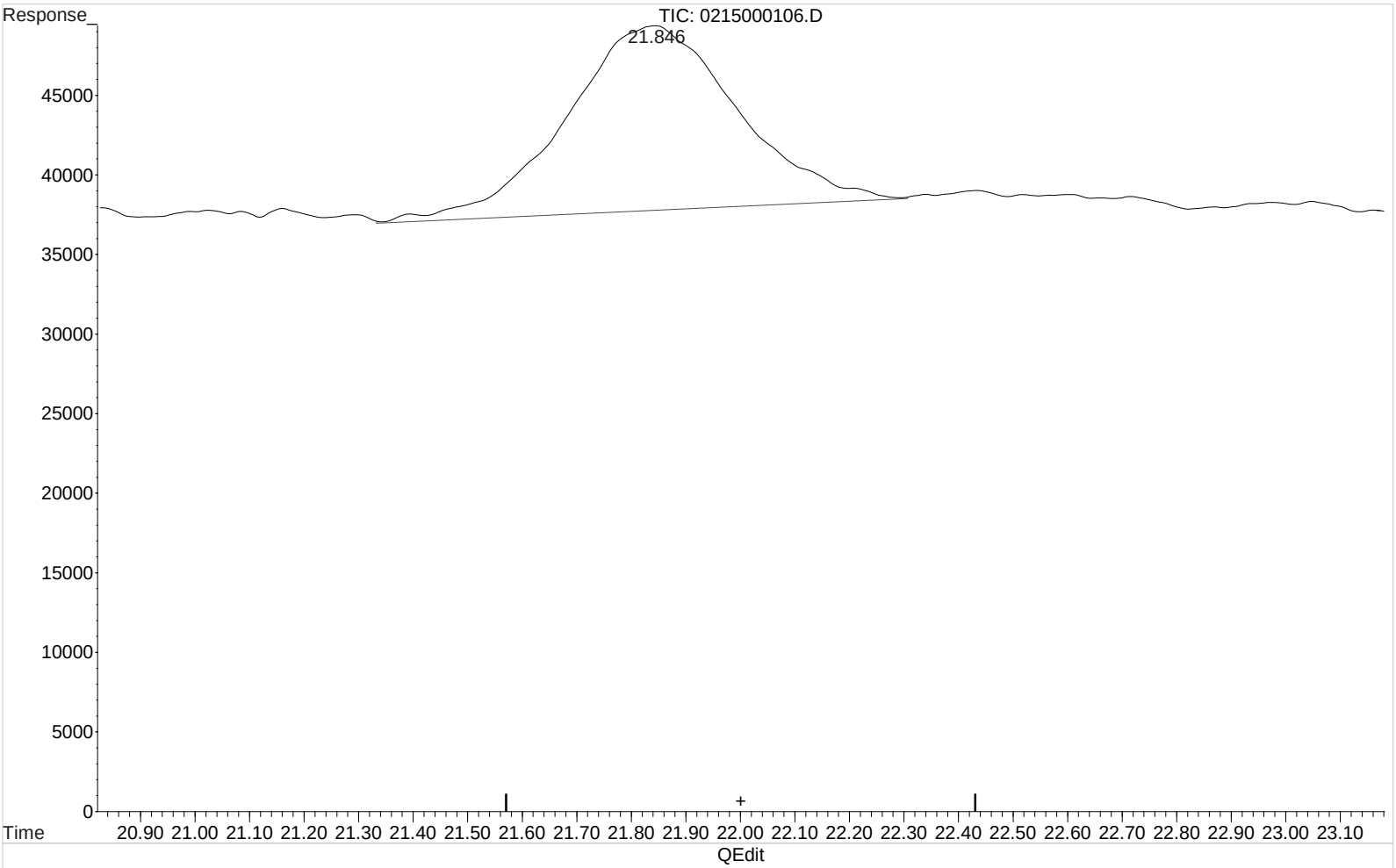
02/17/17

02/27/17

Data File : J:\LC10\Data\021517-254\0215000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 19:43:33 Operator: AE
Sample : KWG1701217-3 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:28:44 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

21.846min 4.256 ug/L m

response 252080

Manual Integration:

After

MP

02/16/17

(+) = Expected Retention Time

(b) (6)

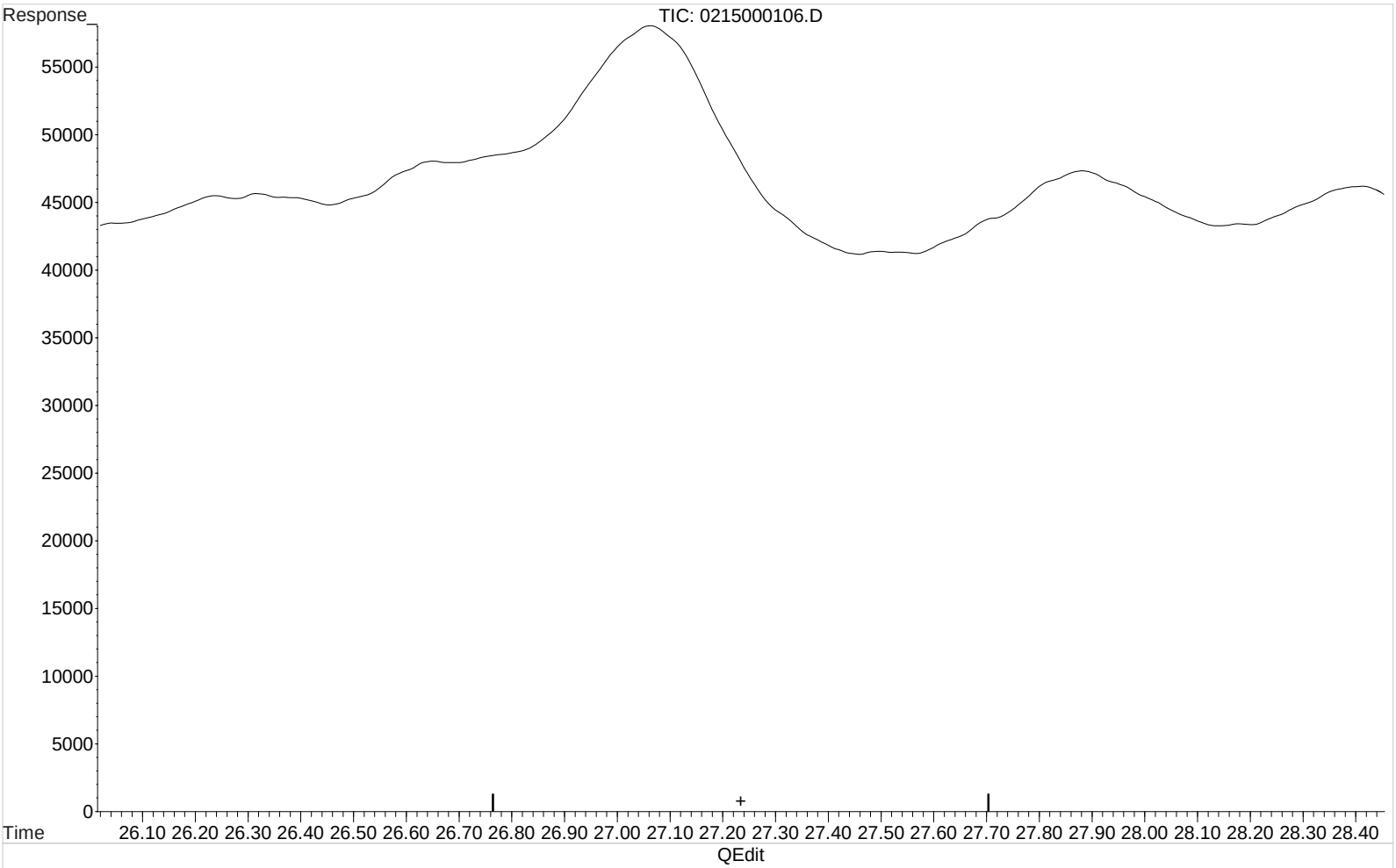
02/17/17

02/27/17

Data File : J:\LC10\Data\021517-254\0215000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 19:43:33 Operator: AE
Sample : KWG1701217-3 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:28:44 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.234min 0.000 ug/L

response 0

Manual Integration:

Before

02/16/17

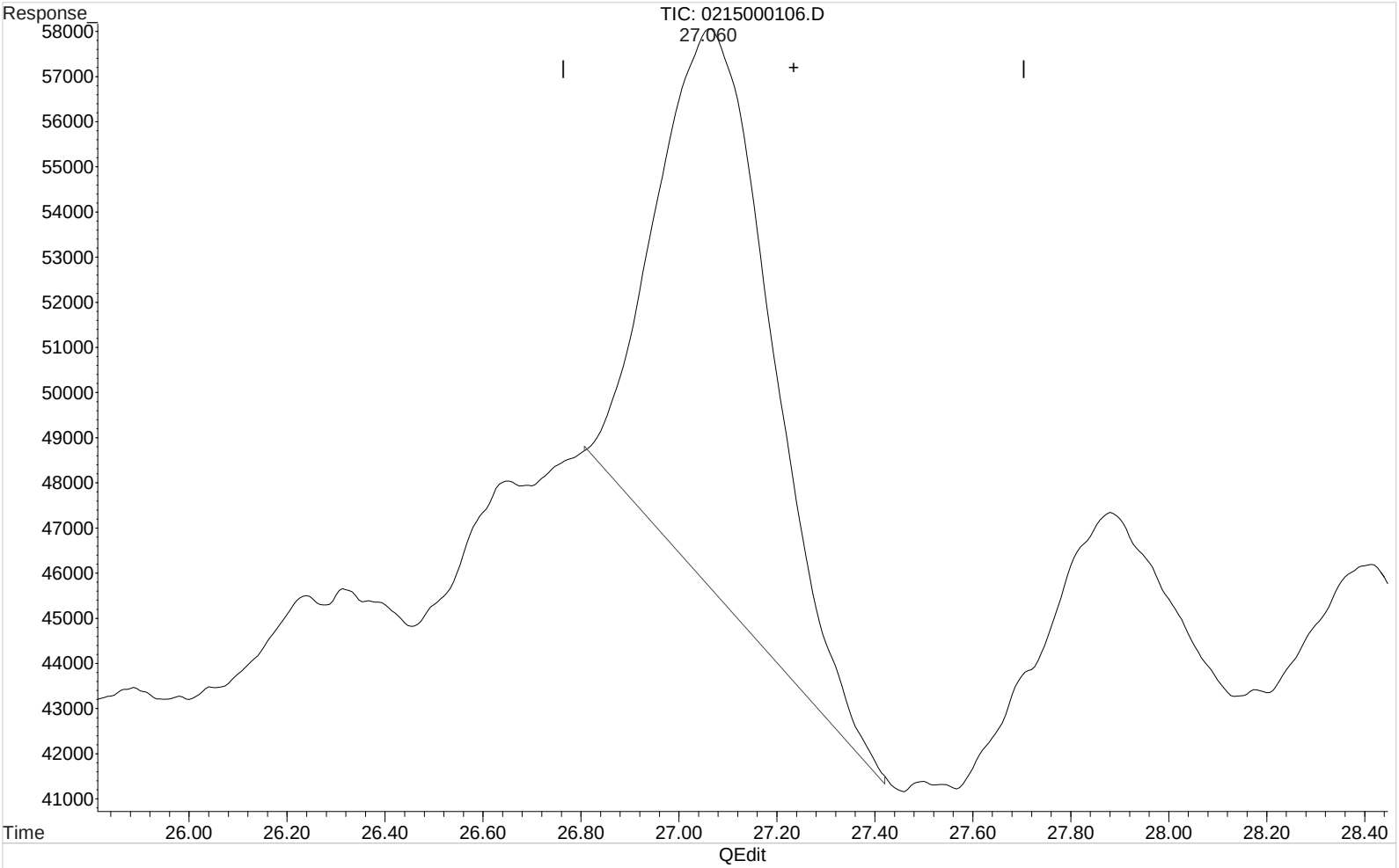
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\021517-254\0215000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 19:43:33 Operator: AE
Sample : KWG1701217-3 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:28:44 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(17) 3-NT (T)

27.060min 10.054 ug/L m

response 202451

Manual Integration:

After

BLC

02/16/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\021517-210\0215000106.D
Lab ID: KWG1701217-3
RunType: MB
Matrix: WATER

Date Acquired: 02/15/2017 19:43
Date Quantitated: 02/16/2017 13:17
Batch ID: KWG1701307
Analysis Method: 8330B
MethodJoinID: MJ1278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\021517-210\0215000106.D			**Instrument:**	LC10
Acqu Date:	02/15/2017 19:43	**Quant Date:**	02/16/2017 13:17	**Vial:**	4
Run Type:	MB	**MethodJoinID:**	MJ1278	**Dilution:**	1.0
Lab ID:	KWG1701217-3			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8330B NitramAro	**Collect Date:**		**Receive Date:**	02/15/2017

Analysis Lot:	KWG1701307	**Prep Lot:**	KWG1701217	**Report Group:**	
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1586623	**Prep Date:**	02/14/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1278
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.59	0.06	201627110	3,546	71	23-98	OK	NR

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.48	0.03	485000**m**	23.27	0.58	U	
Pentaerythritol Tetranitrate	27.62	0.15	61441**m**	3.49	0.65	U	

Prep Amount:	1000 ml	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-210\0215000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 19:43:33 Operator: AE
Sample : KWG1701217-3 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 13:17:25 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.593	201627110	3545.912	ug/L	
Target Compounds						
1) T	Nitroglycerin	16.480	485000	23.265	ug/L	m
2) T	PETN	27.620	61441	3.492	ug/L	m

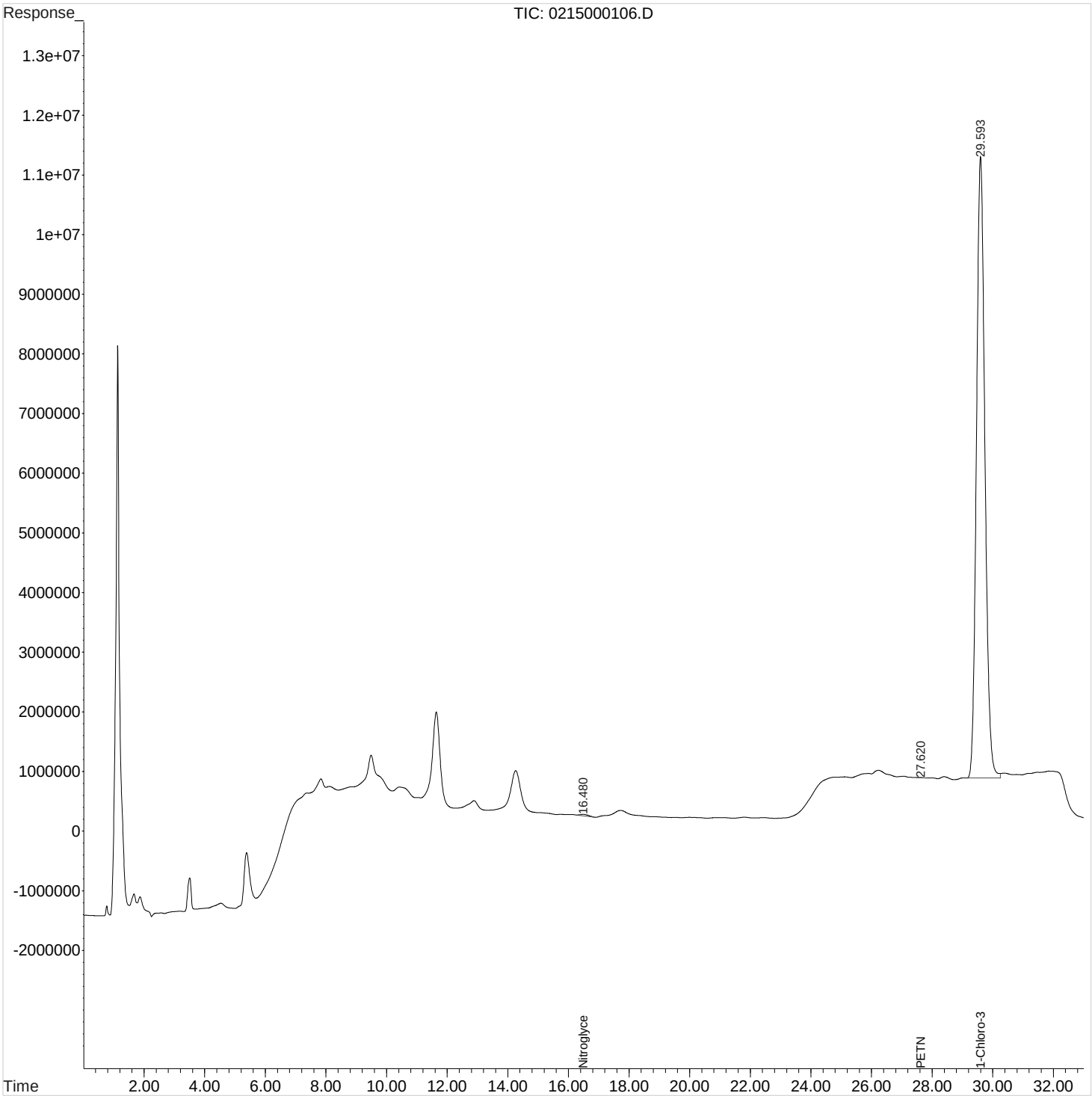
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-210\0215000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 19:43:33 Operator: AE
Sample : KWG1701217-3 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 13:17:25 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

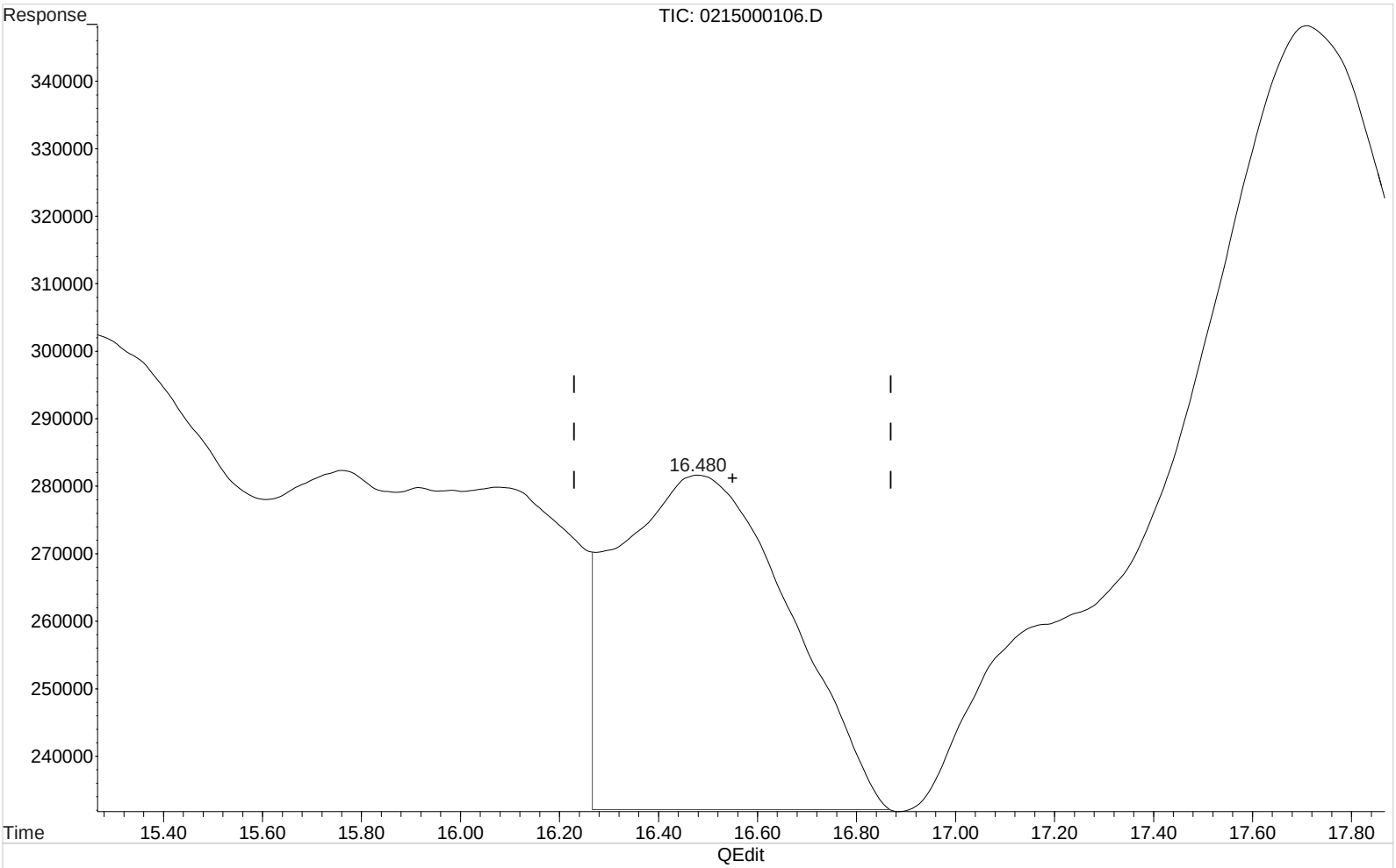


Quantitation Report (Qedit)

Data File : J:\LC10\Data\021517-210\0215000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 19:43:33 Operator: AE
Sample : KWG1701217-3 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 12:24:42 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.480min 56.548 ug/L

response 1178837

Manual Integration:

Before

02/16/17

(+) = Expected Retention Time

(b) (6)

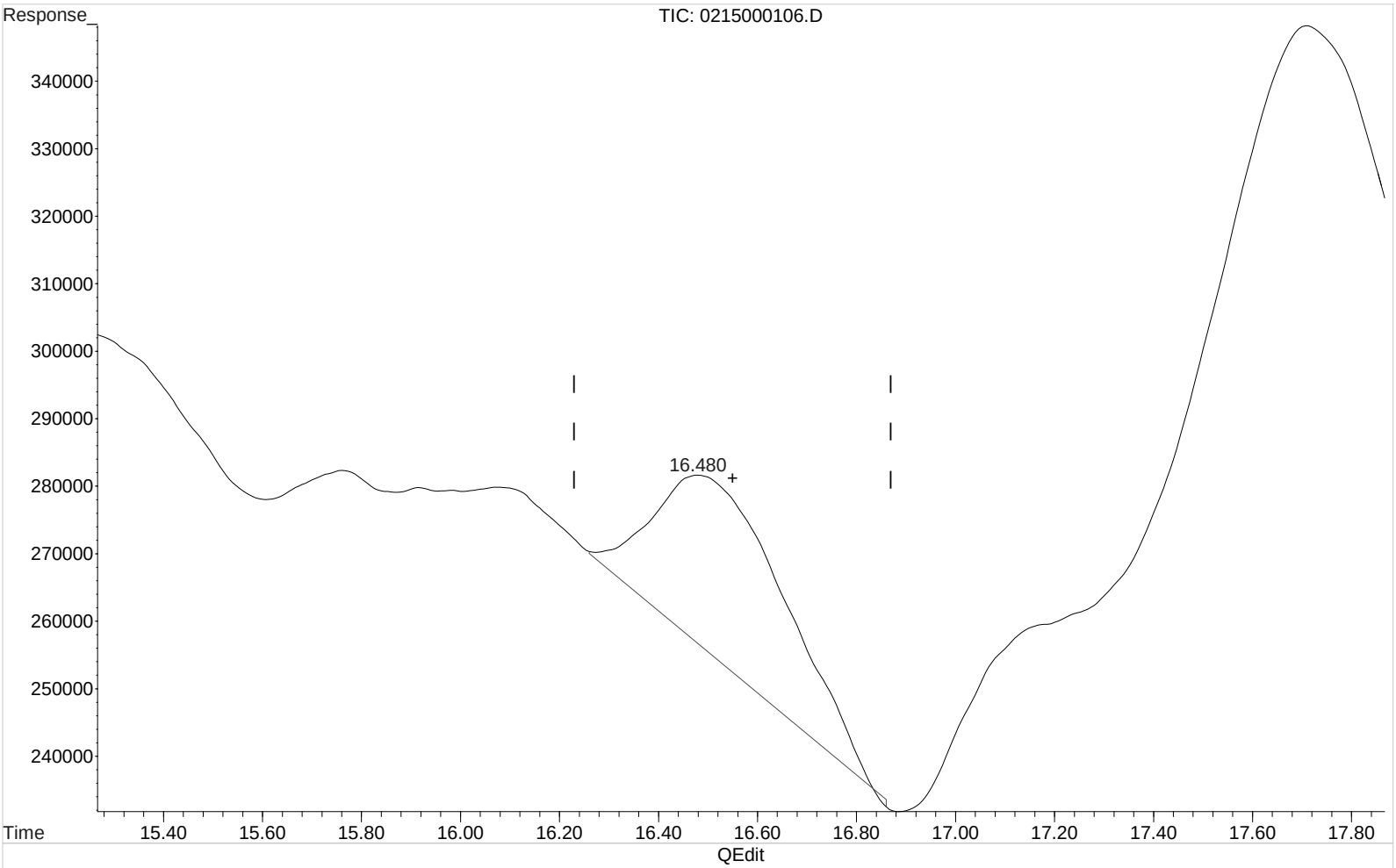
02/17/17

02/27/17

Data File : J:\LC10\Data\021517-210\0215000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 19:43:33 Operator: AE
Sample : KWG1701217-3 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 12:24:42 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.480min 23.265 ug/L m

response 485000

Manual Integration:

After

BLC

02/16/17

(+) = Expected Retention Time

(b) (6)

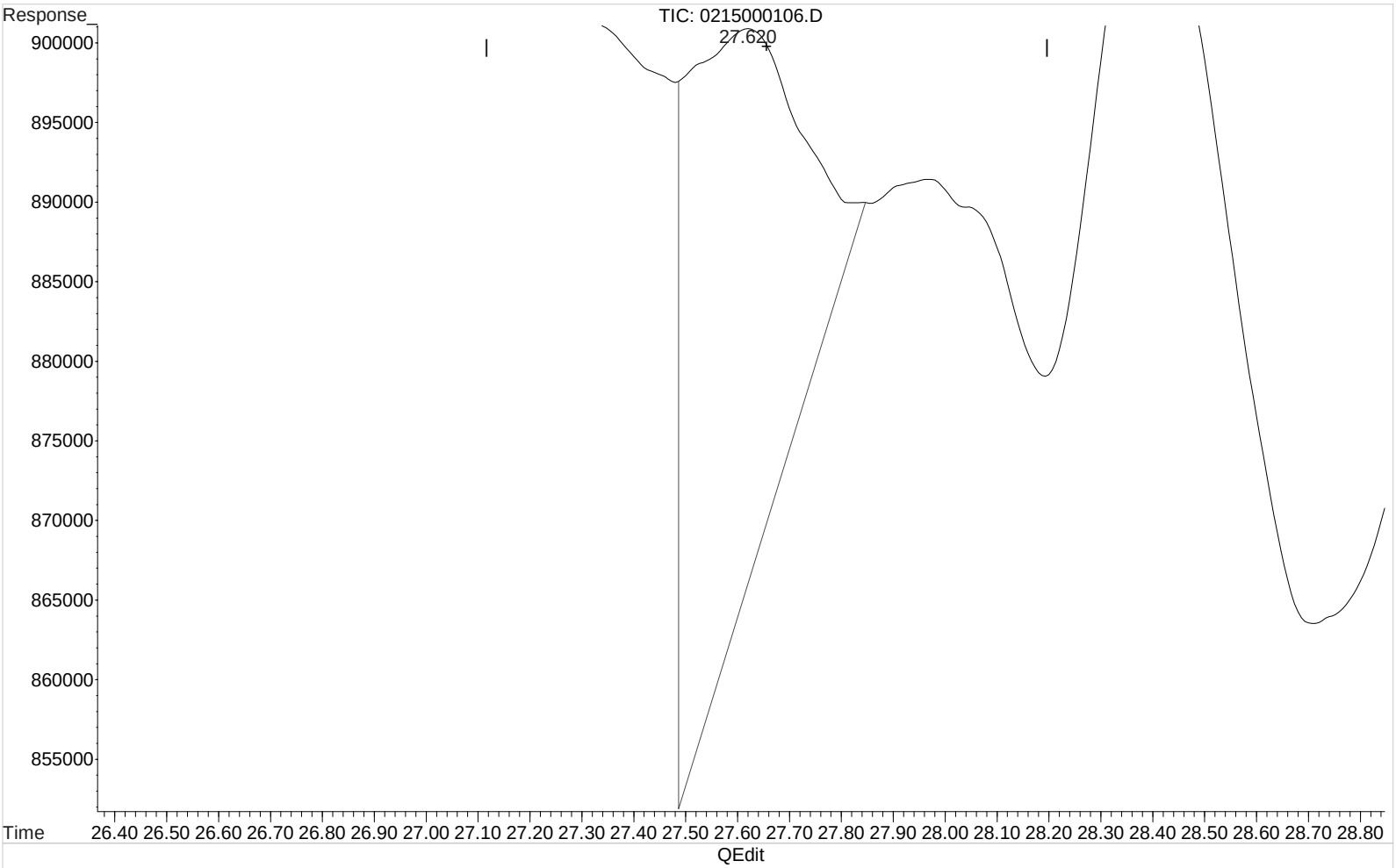
02/17/17

02/27/17

Data File : J:\LC10\Data\021517-210\0215000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 19:43:33 Operator: AE
Sample : KWG1701217-3 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 12:24:42 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.620min 31.037 ug/L

response 546113

Manual Integration:

Before

02/16/17

(+) = Expected Retention Time

(b) (6)

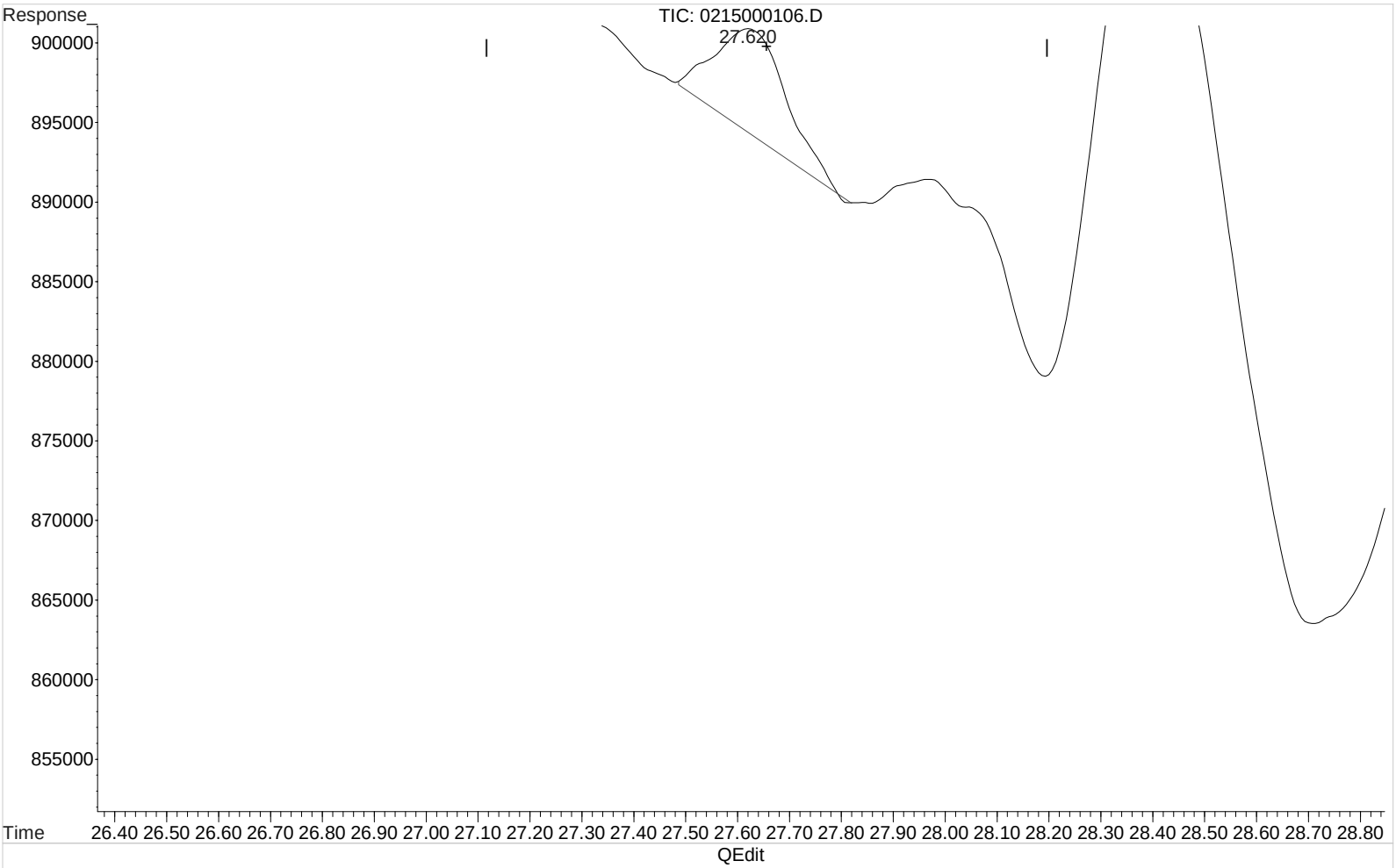
02/17/17

02/27/17

Data File : J:\LC10\Data\021517-210\0215000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 19:43:33 Operator: AE
Sample : KWG1701217-3 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 12:24:42 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.620min 3.492 ug/L m

response 61441

Manual Integration:

After

BLC

02/16/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC08\DATA\021617_XC-254\0216000105.D
Lab ID: KWG1701217-3
RunType: MB
Matrix: WATER

3-NT Not Confirmed

Date Acquired: 02/16/2017 13:42
Date Quantitated: 02/17/2017 10:24
Batch ID: KWG1701338
Analysis Method: 8330B
MethodJoinID: MJ1278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC08\DATA\021617_XC-254\0216000105.D			**Instrument:**	LC08
Acqu Date:	02/16/2017 13:42	**Quant Date:**	02/17/2017 10:24	**Vial:**	4
Run Type:	MB	**MethodJoinID:**	MJ1278	**Dilution:**	1.0
Lab ID:	KWG1701217-3			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8330B NitramAro	**Collect Date:**		**Receive Date:**	02/15/2017

Analysis Lot:	KWG1701338	**Prep Lot:**	KWG1701217	**Report Group:**	
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1586623	**Prep Date:**	02/14/2017		

Quant Method:	J:\LC08\METHOD\020917_SHORT	**Calibration ID:**	CAL15192
Title:			
		Method ID:	MJ1278
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	8.13	0.04	95759641	3,639	73	23-98	OK	NR

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0		0.037	U	NR
RDX			0**d**		0.11	U	NR
Nitrobenzene			0**d**		0.027	U	NR
3,5-Dinitroaniline			0		0.084	U	NR
4-Amino-2,6-dinitrotoluene			0**d**		0.032	U	NR
2-Nitrotoluene			0		0.032	U	NR
2-Amino-4,6-dinitrotoluene			0**d**		0.034	U	NR
3-Nitrotoluene	6.93	-0.02	64933**m**	2.32	0.034	U	
1,3-Dinitrobenzene			0**d**		0.046	U	NR
4-Nitrotoluene			0**d**		0.024	U	NR
2,6-Dinitrotoluene			0**d**		0.054	U	NR
2,4-Dinitrotoluene			0		0.085	U	NR
TETRYL			0		0.099	U	NR
1,3,5-Trinitrobenzene			0		0.14	U	NR
2,4,6-Trinitrotoluene			0		0.092	U	NR

Prep Amount:	1000 ml	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\021617_XC-254\0216000105.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 13:42:06 Operator: AE
Sample : KWG1701217-3 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:24:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Feb 17 10:20:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
11) S	1-Chloro-3-Nitrobenzene	8.133	95759641	3638.828	ug/L	
	Target Compounds					
1) T	HMX	0.000	0	N.D.	ug/L	
2) T	RDX	0.000	0	N.D.	ug/L	d
3) T	Nitrobenzene	0.000	0	N.D.	ug/L	d
4) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L	
5) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L	d
6) T	2-NT	0.000	0	N.D.	ug/L	
7) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L	d
8) T	3-NT	6.927	64933	2.324	ug/L	m
9) T	1,3-DNB	0.000	0	N.D.	ug/L	d
10) T	4-NT	0.000	0	N.D.	ug/L	d
12) T	2,6-DNT	0.000	0	N.D.	ug/L	d
13) T	2,4-DNT	0.000	0	N.D.	ug/L	
14) T	Tetryl	0.000	0	N.D.	ug/L	
15) T	1,3,5-TNB	0.000	0	N.D.	ug/L	
16) T	2,4,6-TNT	0.000	0	N.D.	ug/L	

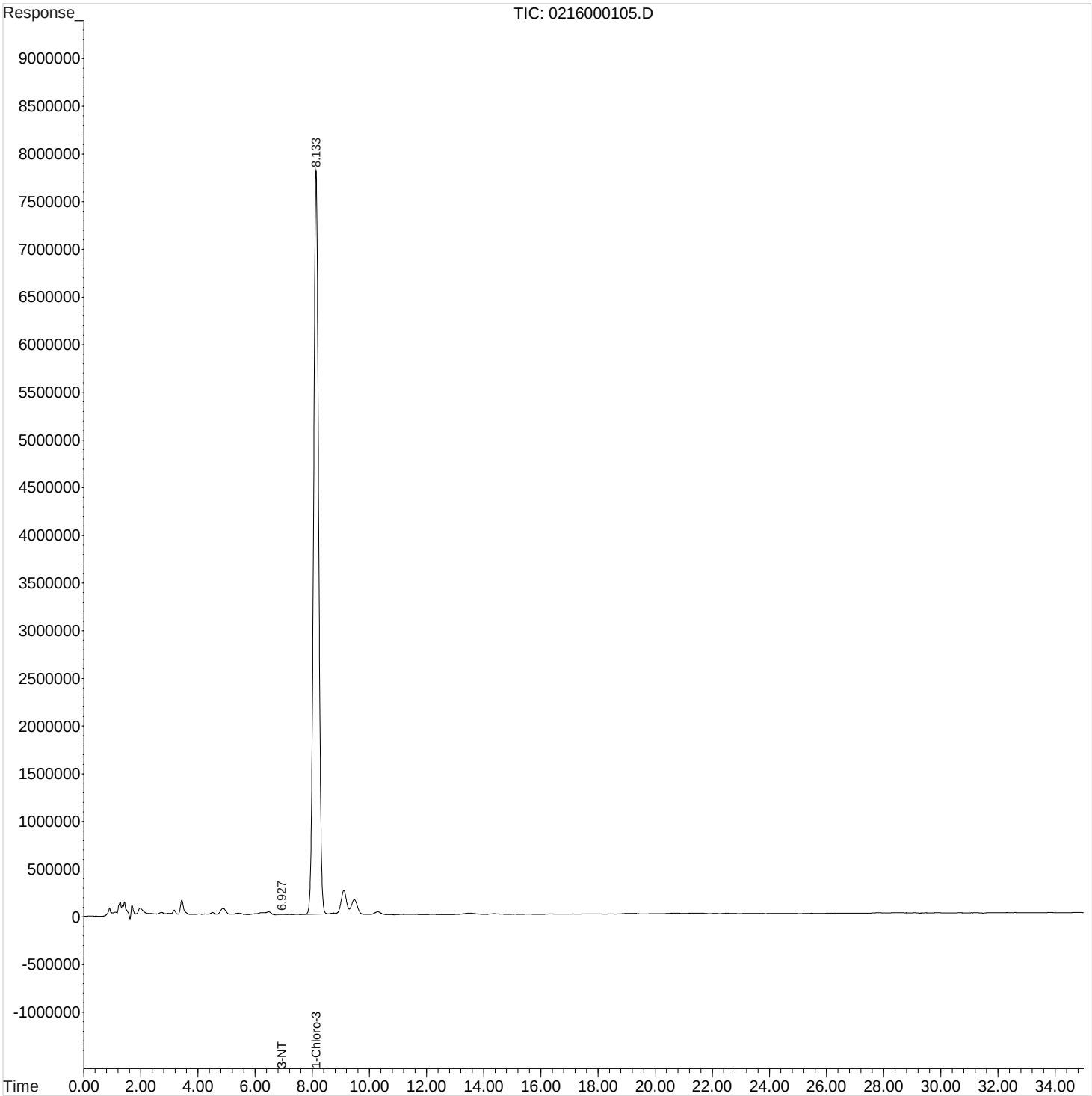
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\021617_XC-254\0216000105.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 13:42:06 Operator: AE
Sample : KWG1701217-3 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:24:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Feb 17 10:20:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

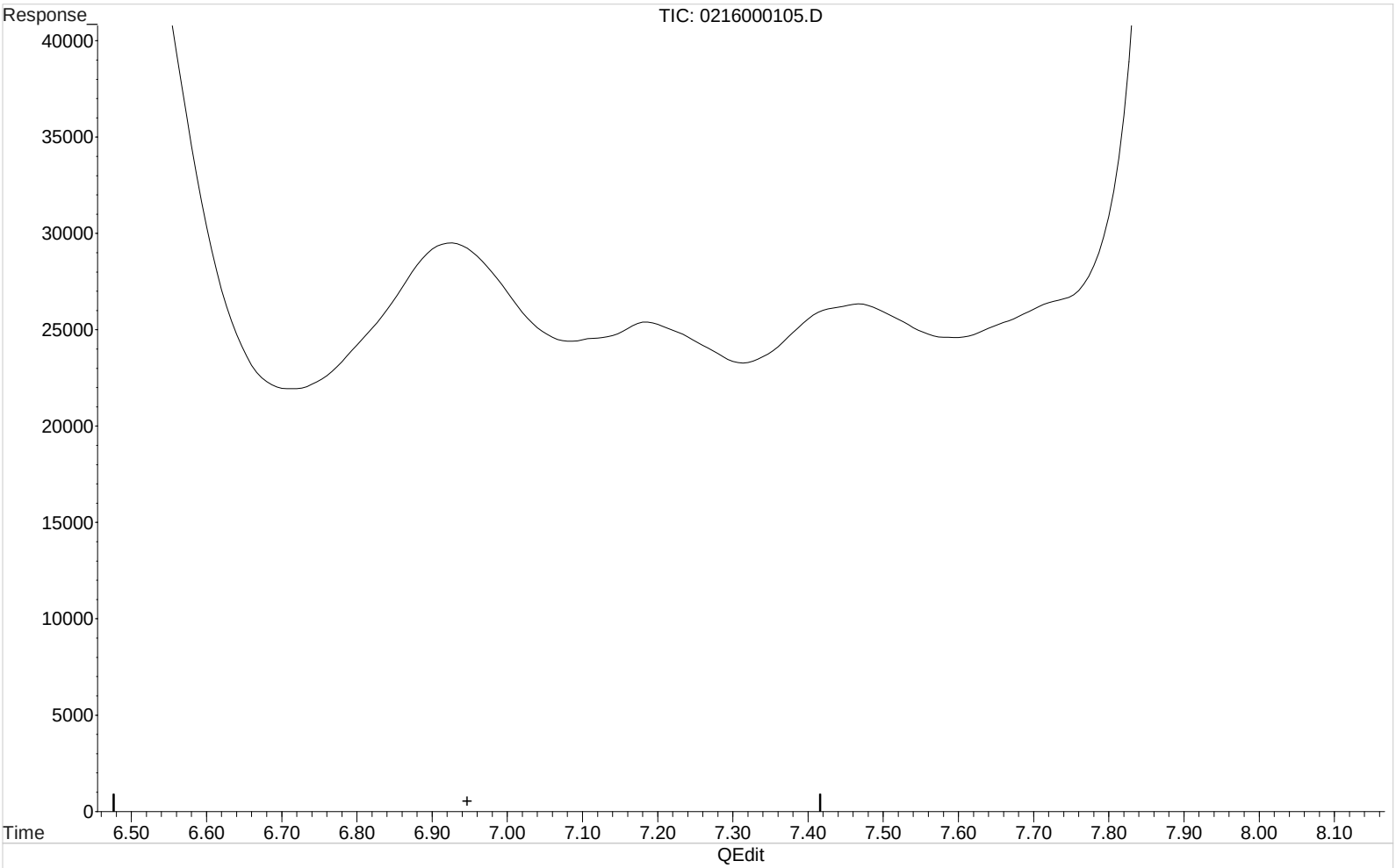


Quantitation Report (Qedit)

Data File : J:\LC08\Data\021617_XC-254\0216000105.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 13:42:06 Operator: AE
Sample : KWG1701217-3 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:20:46 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Feb 17 10:20:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(8) 3-NT (T)

6.947min 0.000 ug/L

response 0

Manual Integration:

Before

02/17/17

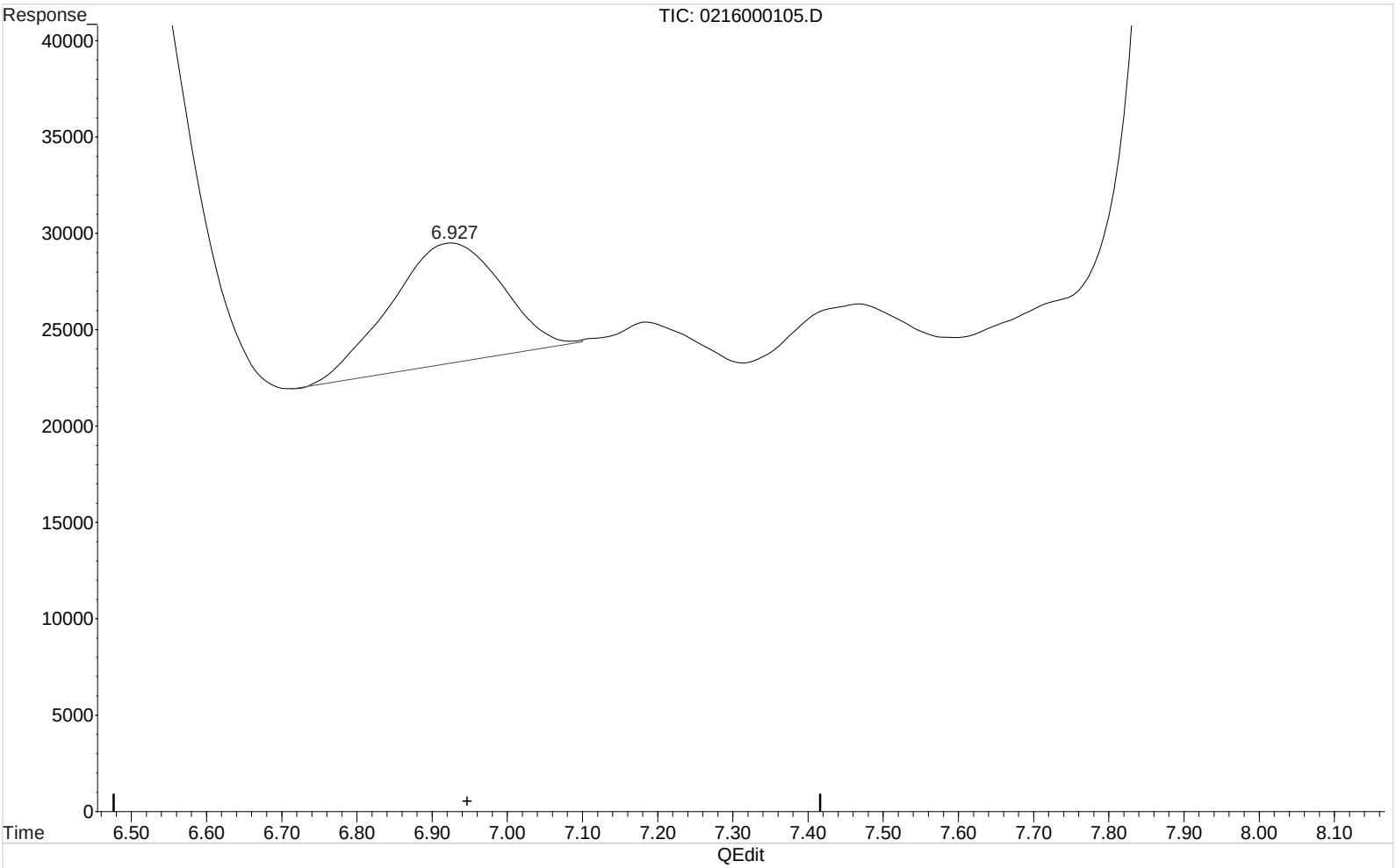
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\021617_XC-254\0216000105.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 13:42:06 Operator: AE
Sample : KWG1701217-3 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:20:46 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Feb 17 10:20:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(8) 3-NT (T)

6.927min 2.324 ug/L m

response 64933

Manual Integration:

After

MP

02/17/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000207.
Lab ID: KWG1701417-6
RunType: SB
Matrix: SOIL

Date Acquired: 03/02/2017 15:37
Date Quantitated: 03/06/2017 16:28
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000207.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 15:37	**Quant Date:**	03/06/2017 16:28	**Vial:**	7
Run Type:	SB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701417-6			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**		**Receive Date:**	03/01/2017

Analysis Lot:	KWG1701858	**Prep Lot:**	KWG1701417	**Report Group:**	
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587782	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_254\03020000205.D	**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.61	0.07	82626430	3,824	76	34-135	OK	

Target Compounds

Final Conc. Units: mg/Kg Wet Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0		0.0064	U	
2,4-Diamino-6-nitrotoluene			0				
RDX			0		0.049	U	
1,3,5-Trinitrobenzene	10.43	0.02	299407**m**	6.70	0.027	U	
1,3-Dinitrobenzene			0		0.012	U	
3,5-Dinitroaniline			0		0.062	U	
TETRYL			0		0.041	U	
Nitrobenzene			0		0.0044	U	
2,4,6-Trinitrotoluene			0		0.018	U	
4-Amino-2,6-dinitrotoluene			0		0.0051	U	
2-Amino-4,6-dinitrotoluene			0		0.0075	U	
2,6-Dinitrotoluene			0		0.0051	U	
2,4-Dinitrotoluene			0		0.041	U	
2-Nitrotoluene			0		0.0071	U	
4-Nitrotoluene			0		0.018	U	
3-Nitrotoluene	27.06	-0.19	457829**m**	22.74	0.018	U	

Prep Amount:	10.317 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000207.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 15:37:22 Operator: BR
Sample : KWG1701417-6 GB1 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:28:55 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
18) S	1-Chloro-3-Nitrobenzene	29.612	82626430	3823.673	ug/L
	Target Compounds				
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2) T	HMX	0.000	0	N.D.	ug/L
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4) T	RDX	0.000	0	N.D.	ug/L
5) T	1,3,5-TNB	10.426	299407	6.703	ug/L m
6) T	1,3-DNB	0.000	0	N.D.	ug/L
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8) T	Tetryl	0.000	0	N.D.	ug/L
9) T	Nitrobenzene	0.000	0	N.D.	ug/L
10) T	2,4,6-TNT	0.000	0	N.D.	ug/L
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13) T	2,6-DNT	0.000	0	N.D.	ug/L
14) T	2,4-DNT	0.000	0	N.D.	ug/L
15) T	2-NT	0.000	0	N.D.	ug/L
16) T	4-NT	0.000	0	N.D.	ug/L
17) T	3-NT	27.059	457829	22.737	ug/L m

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] 3/14/17
(9) (g) 3/29/17

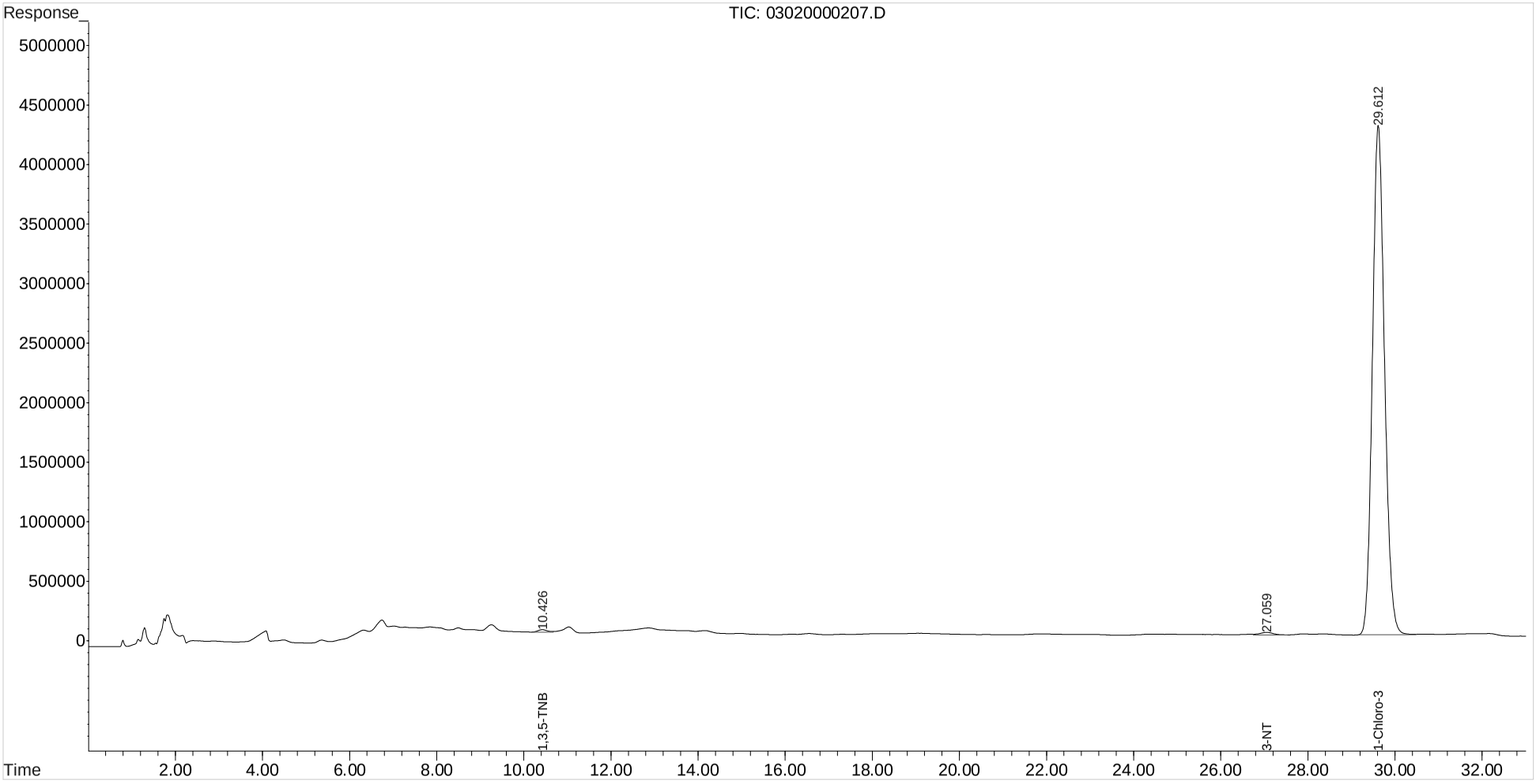
Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000207.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 15:37:22 Operator: BR
Sample : KWG1701417-6 GB1 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:28:55 2017
Quant Results File: 120716_8330B@254.RES

11/01/2018

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



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012295

(b) (6)

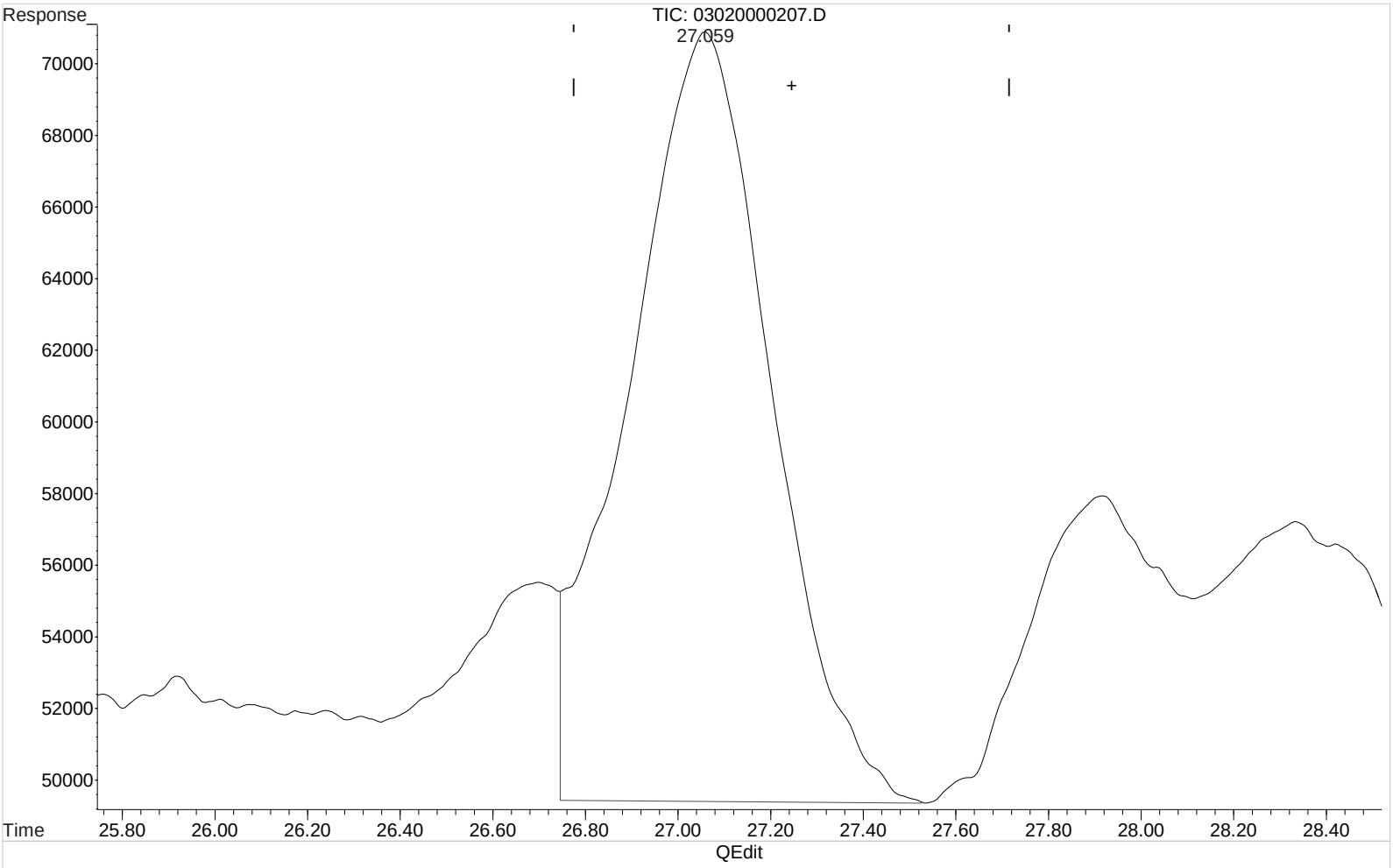
03/29/17

03/29/17

Data File: J:\LC10\Data\030317_8330_254\03020000207.D
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 15:37:22
Operator : BR
Sample : KWG1701417-6 GB1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: RTEINT.P
Quant Time: Mar 06 16:14:32 2017
Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
Integrator: RTE

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.059min 22.737 ug/L m

response 457829

No Before

Manual Integration:

After

Baseline/Shoulder

03/29/17

(+) = Expected Retention Time

(b) (6)

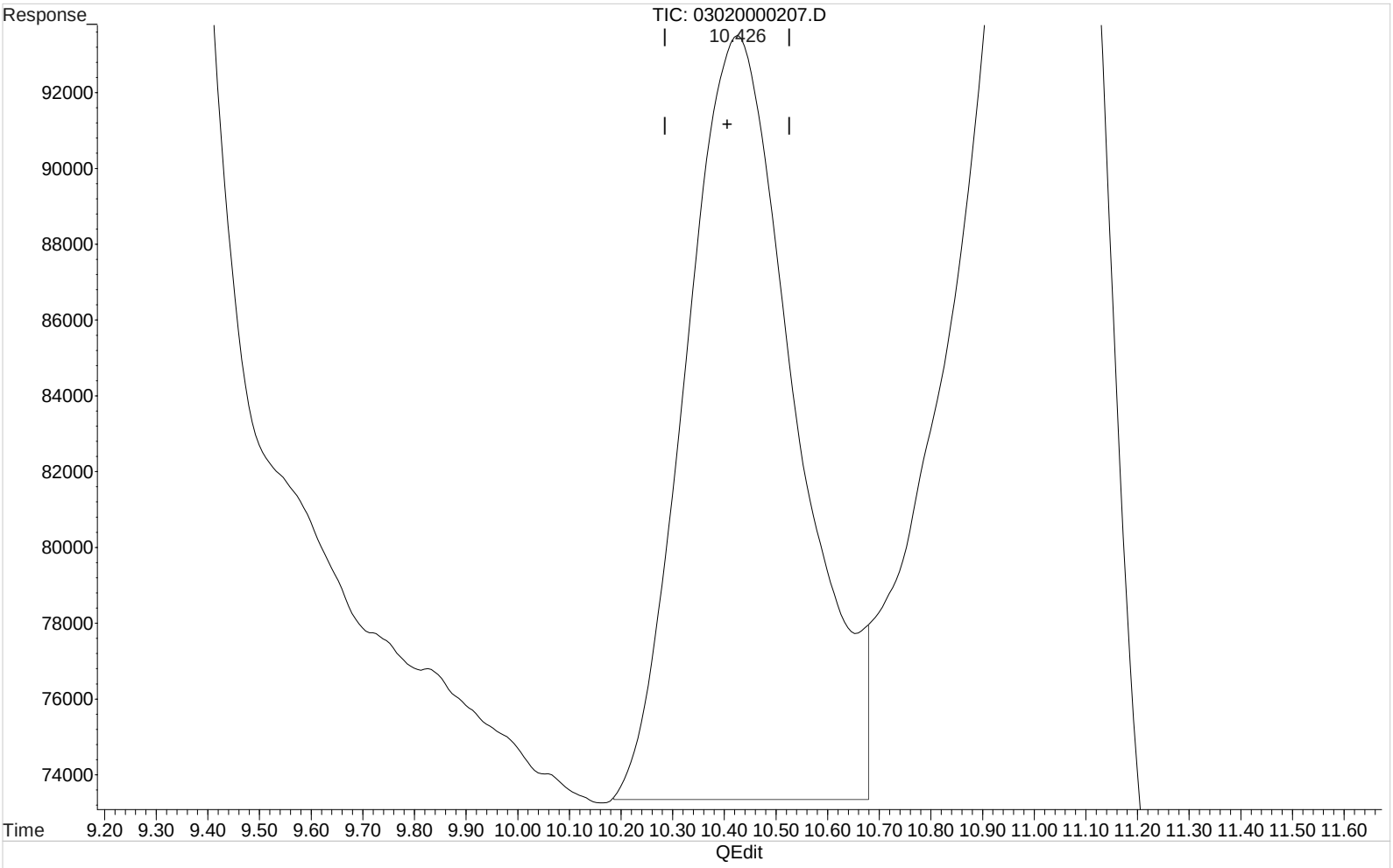
03/29/17

03/29/17

Data File: J:\LC10\Data\030317_8330_254\03020000207.D
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 15:37:22
Operator : BR
Sample : KWG1701417-6 GB1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: RTEINT.P
Quant Time: Mar 06 16:14:32 2017
Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
Integrator: RTE

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(5) 1,3,5-TNB (T)

10.426min 6.703 ug/L m

response 299407

No Before

Manual Integration:

After

Baseline/Shoulder

03/29/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000207.
Lab ID: KWG1701417-6
RunType: SB
Matrix: SOIL

Date Acquired: 03/02/2017 15:37
Date Quantitated: 03/06/2017 15:19
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000207.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 15:37	**Quant Date:**	03/06/2017 16:19	**Vial:**	7
Run Type:	SB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701417-6			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**		**Receive Date:**	03/01/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587782	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_210\03020000205.D	**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.61	0.07	221004477	3,887	78	34-135	OK	

Target Compounds

Final Conc. Units: mg/Kg Wet Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**		0.058	U	
Pentaerythritol Tetranitrate			0**d**		0.11	U	

Prep Amount:	10.317 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000207.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 15:37	**Quant Date:**	03/06/2017 16:19	**Vial:**	7
Run Type:	SB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701417-6			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**		**Receive Date:**	03/01/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587782	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:	J:\LC10\DATA\030317_8330_210\03020000205.D	**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.61	0.07	221004477	3,887	78	34-135	OK	

Target Compounds

Final Conc. Units: mg/Kg Wet Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**		0.058	U	
Pentaerythritol Tetranitrate			0**d**		0.11	U	

Prep Amount:	10.317 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000207.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 15:37:22 Operator: BR
Sample : KWG1701417-6 GB1 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:19:04 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.612	221004477	3886.692	ug/L	
Target Compounds						
1) T	Nitroglycerin	0.000	0	N.D.	ug/L	d
2) T	PETN	0.000	0	N.D.	ug/L	d

(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)

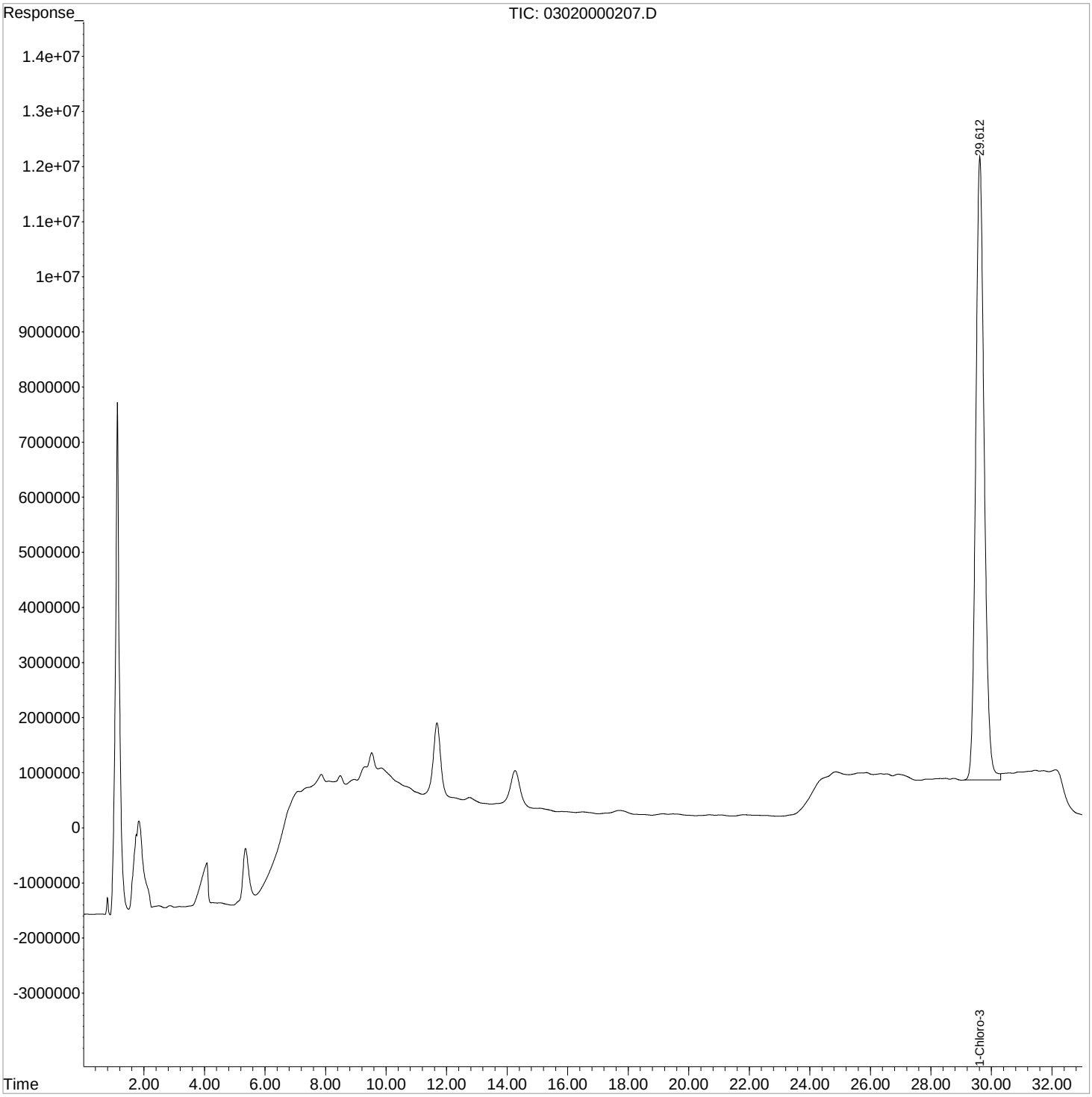
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_210\03020000207.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 15:37:22 Operator: BR
Sample : KWG1701417-6 GB1 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:19:04 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000208.
Lab ID: KWG1701417-7
RunType: SB
Matrix: SOIL

Date Acquired: 03/02/2017 16:13
Date Quantitated: 03/06/2017 16:14
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000208.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 16:13	**Quant Date:**	03/06/2017 16:14	**Vial:**	8
Run Type:	SB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701417-7			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**		**Receive Date:**	03/01/2017

Analysis Lot:	KWG1701858	**Prep Lot:**	KWG1701417	**Report Group:**	
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587783	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_254\03020000205.D	**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.59	0.05	99032395	4,583	92	34-135	OK	

Target Compounds

Final Conc. Units: mg/Kg Wet Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0		0.0064	U	
2,4-Diamino-6-nitrotoluene			0				
RDX			0		0.049	U	
1,3,5-Trinitrobenzene			0		0.027	U	
1,3-Dinitrobenzene			0		0.012	U	
3,5-Dinitroaniline			0		0.062	U	
TETRYL			0		0.041	U	
Nitrobenzene			0		0.0044	U	
2,4,6-Trinitrotoluene			0		0.018	U	
4-Amino-2,6-dinitrotoluene			0		0.0051	U	
2-Amino-4,6-dinitrotoluene			0		0.0075	U	
2,6-Dinitrotoluene			0		0.0051	U	
2,4-Dinitrotoluene			0		0.041	U	
2-Nitrotoluene			0		0.0071	U	
4-Nitrotoluene			0		0.018	U	
3-Nitrotoluene	27.09	-0.16	449887	22.34	0.018	U	

Prep Amount:	10.084 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000208.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 16:13:35 Operator: BR
Sample : KWG1701417-7 GB2 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:34 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
18) S	1-Chloro-3-Nitrobenzene	29.592	99032395	4582.886	ug/L
	Target Compounds				
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2) T	HMX	0.000	0	N.D.	ug/L
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4) T	RDX	0.000	0	N.D.	ug/L
5) T	1,3,5-TNB	0.000	0	N.D.	ug/L
6) T	1,3-DNB	0.000	0	N.D.	ug/L
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8) T	Tetryl	0.000	0	N.D.	ug/L
9) T	Nitrobenzene	0.000	0	N.D.	ug/L
10) T	2,4,6-TNT	0.000	0	N.D.	ug/L
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13) T	2,6-DNT	0.000	0	N.D.	ug/L
14) T	2,4-DNT	0.000	0	N.D.	ug/L
15) T	2-NT	0.000	0	N.D.	ug/L
16) T	4-NT	0.000	0	N.D.	ug/L
17) T	3-NT	27.092	449887	22.342	ug/L

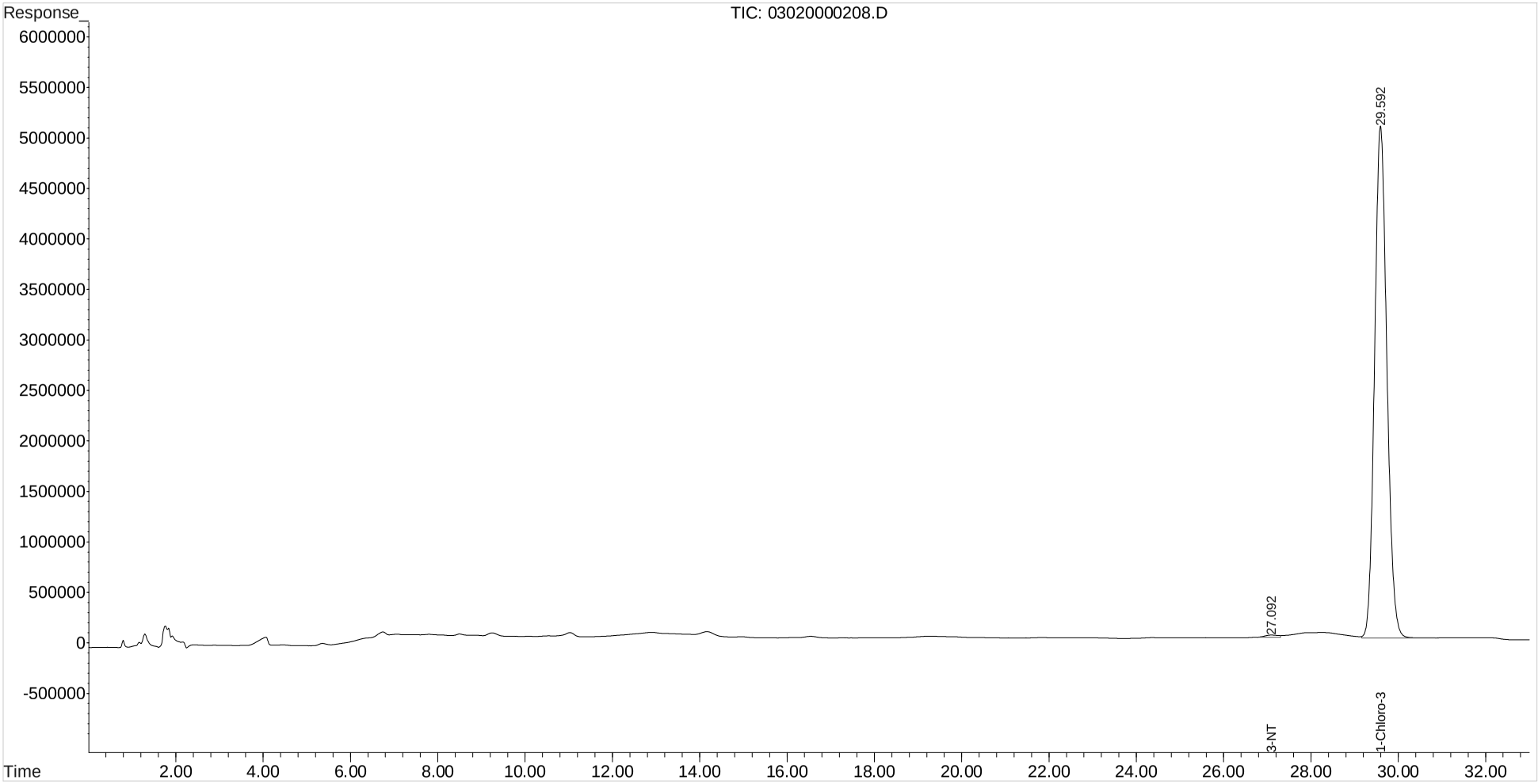
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000208.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 16:13:35 Operator: BR
Sample : KWG1701417-7 GB2 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:34 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000208.
Lab ID: KWG1701417-7
RunType: SB
Matrix: SOIL

Date Acquired: 03/02/2017 16:13
Date Quantitated: 03/06/2017 15:19
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
Preparation Holding Time	NA	NA	NA	x	
Pre-Preparation Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000208.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 16:13	**Quant Date:**	03/06/2017 15:19	**Vial:**	8
Run Type:	SB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701417-7			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**		**Receive Date:**	03/01/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587783	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_210\03020000205.D	**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.59	0.05	266471969	4,686	94	34-135	OK	

Target Compounds

Final Conc. Units: mg/Kg Wet Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.51	0.04	1836364**m**	88.09	0.0699	J	
Pentaerythritol Tetranitrate			0**d**		0.11	U	

Prep Amount:	10.084 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000208.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 16:13	**Quant Date:**	03/06/2017 15:19	**Vial:**	8
Run Type:	SB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701417-7			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**		**Receive Date:**	03/01/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587783	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:	J:\LC10\DATA\030317_8330_210\03020000205.D	**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.59	0.05	266471969	4,686	94	34-135	OK	

Target Compounds

Final Conc. Units: mg/Kg Wet Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.51	0.04	1836364**m**	88.09	0.0699	J	<LOD
Pentaerythritol Tetranitrate			0**d**		0.11	U	

Prep Amount:	10.084 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000208.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 16:13:35 Operator: BR
Sample : KWG1701417-7 GB2 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:19:53 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.592	266471969	4686.305	ug/L	
Target Compounds						
1) T	Nitroglycerin	16.512	1836364	88.089	ug/L	m
2) T	PETN	0.000	0	N.D.	ug/L	d

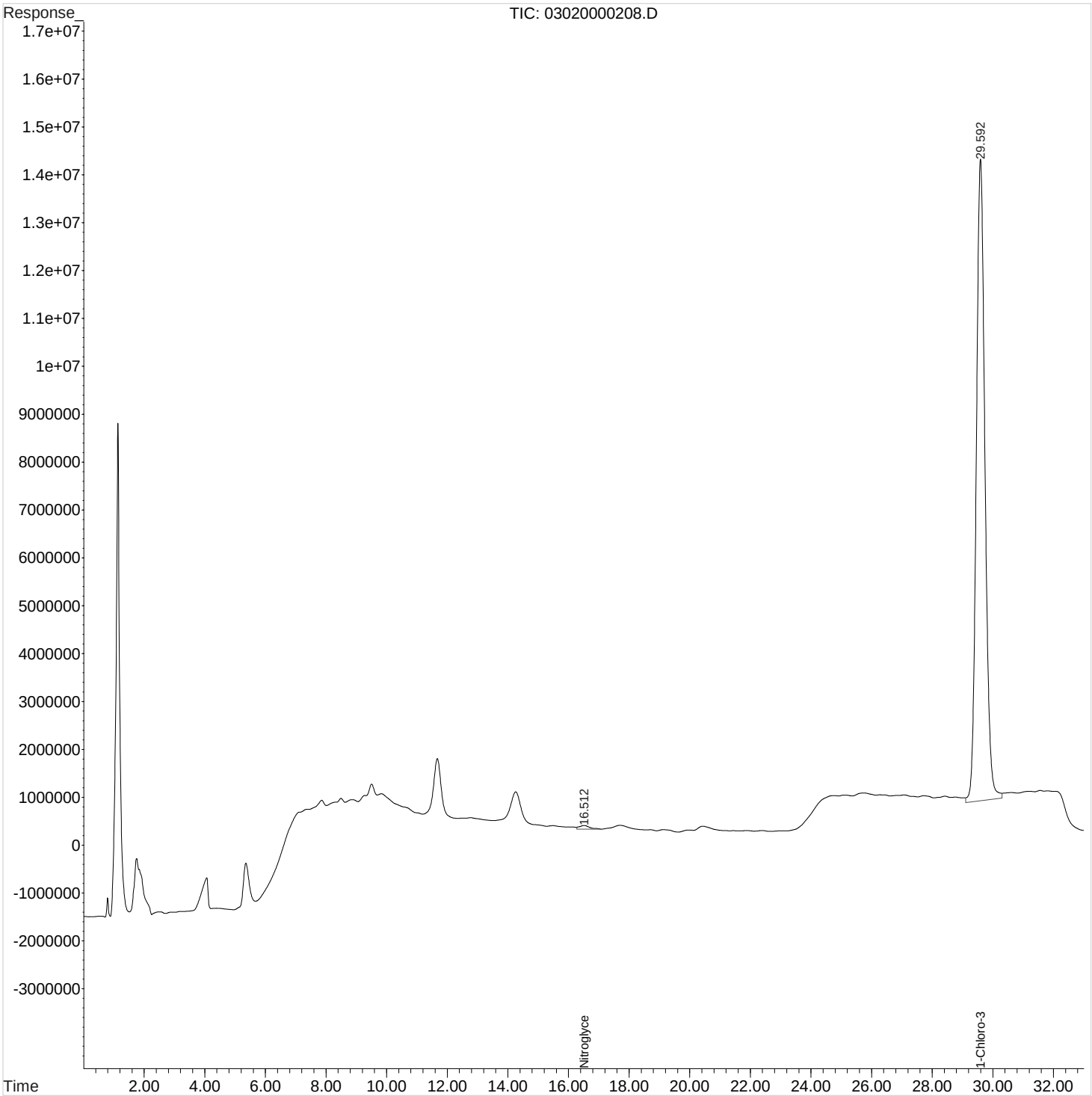
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000208.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 16:13:35 Operator: BR
Sample : KWG1701417-7 GB2 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:19:53 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

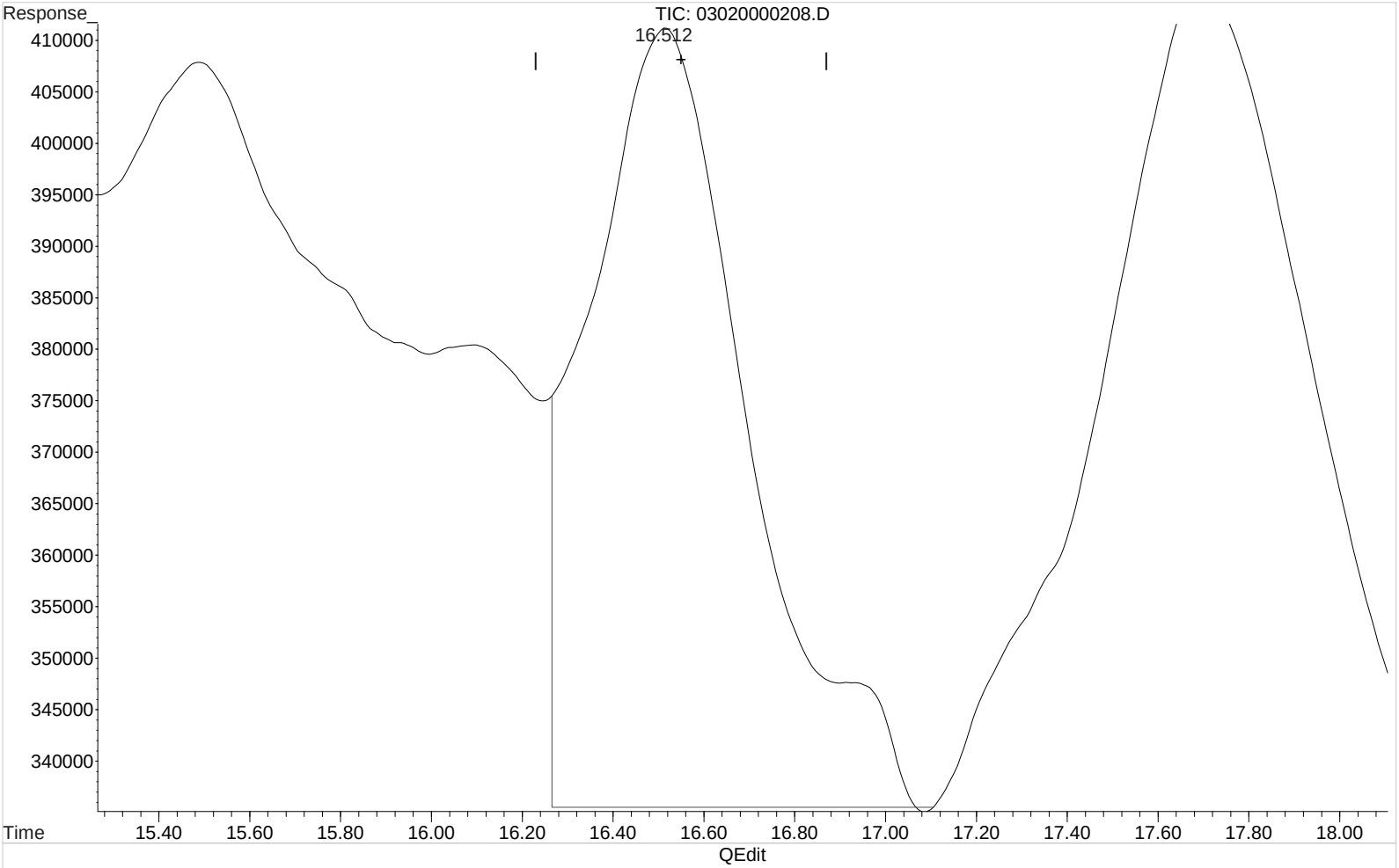


Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000208.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 16:13:35 Operator: BR
Sample : KWG1701417-7 GB2 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 14:59:50 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.512min 87.704 ug/L

response 1828334

Manual Integration:

Before

03/06/17

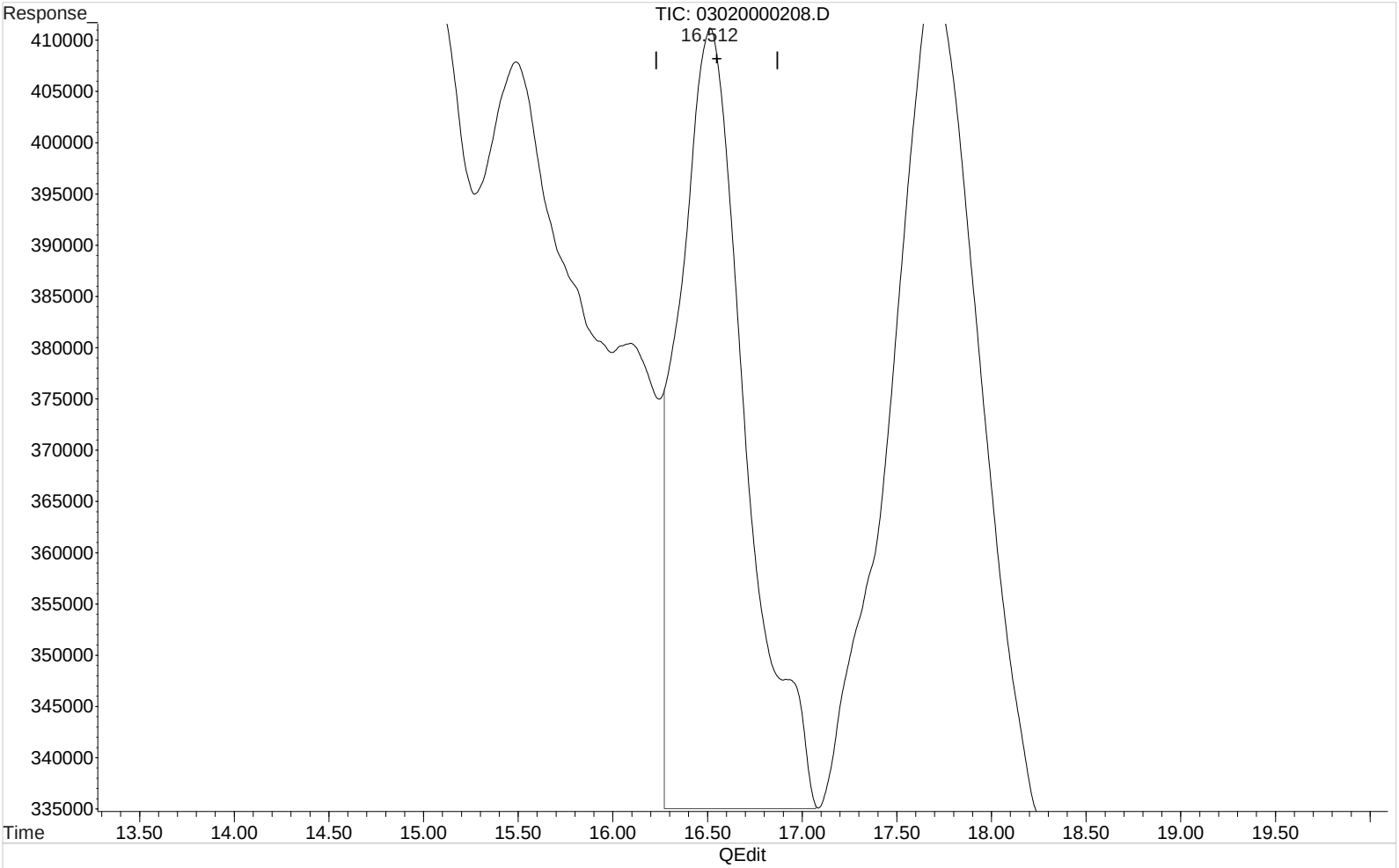
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000208.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 16:13:35 Operator: BR
Sample : KWG1701417-7 GB2 Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 14:59:50 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.512min 88.089 ug/L m

response 1836364

Manual Integration:

After

BLC

03/06/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000205.
Lab ID: KWG1701417-9
RunType: MB
Matrix: SOIL

Date Acquired: 03/02/2017 14:24
Date Quantitated: 03/06/2017 16:24
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000205.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 14:24	**Quant Date:**	03/06/2017 16:24	**Vial:**	5
Run Type:	MB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701417-9			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**		**Receive Date:**	03/01/2017

Analysis Lot:	KWG1701858	**Prep Lot:**	KWG1701417	**Report Group:**	
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587785	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.59	0.05	88192474	4,081	82	34-135	OK	

Target Compounds

Final Conc. Units: mg/Kg Wet Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0**d**				
HMX			0		0.0064	U	
2,4-Diamino-6-nitrotoluene			0				
RDX			0		0.049	U	
1,3,5-Trinitrobenzene			0		0.027	U	
1,3-Dinitrobenzene			0		0.012	U	
3,5-Dinitroaniline			0		0.062	U	
TETRYL			0		0.041	U	
Nitrobenzene			0		0.0044	U	
2,4,6-Trinitrotoluene	17.30	0.03	311546	7.48	0.018	U	
4-Amino-2,6-dinitrotoluene			0		0.0051	U	
2-Amino-4,6-dinitrotoluene			0		0.0075	U	
2,6-Dinitrotoluene			0		0.0051	U	
2,4-Dinitrotoluene	22.09	0.06	745356**m**	12.58	0.041	U	
2-Nitrotoluene			0		0.0071	U	
4-Nitrotoluene			0		0.018	U	
3-Nitrotoluene	27.07	-0.18	270646**m**	13.44	0.018	U	

Prep Amount:	10.000 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000205.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 14:24:54 Operator: BR
Sample : KWG1701417-9 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:24:17 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
18) S	1-Chloro-3-Nitrobenzene	29.588	88192474	4081.251	ug/L	
	Target Compounds					
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	d
2) T	HMX	0.000	0	N.D.	ug/L	
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4) T	RDX	0.000	0	N.D.	ug/L	
5) T	1,3,5-TNB	0.000	0	N.D.	ug/L	
6) T	1,3-DNB	0.000	0	N.D.	ug/L	
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L	
8) T	Tetryl	0.000	0	N.D.	ug/L	
9) T	Nitrobenzene	0.000	0	N.D.	ug/L	
10) T	2,4,6-TNT	17.301	311546	7.479	ug/L	
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L	
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L	
13) T	2,6-DNT	0.000	0	N.D.	ug/L	
14) T	2,4-DNT	22.095	745356	12.583	ug/L	m
15) T	2-NT	0.000	0	N.D.	ug/L	
16) T	4-NT	0.000	0	N.D.	ug/L	
17) T	3-NT	27.068	270646	13.441	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] 03/14/17
(g) (g) 03/29/17

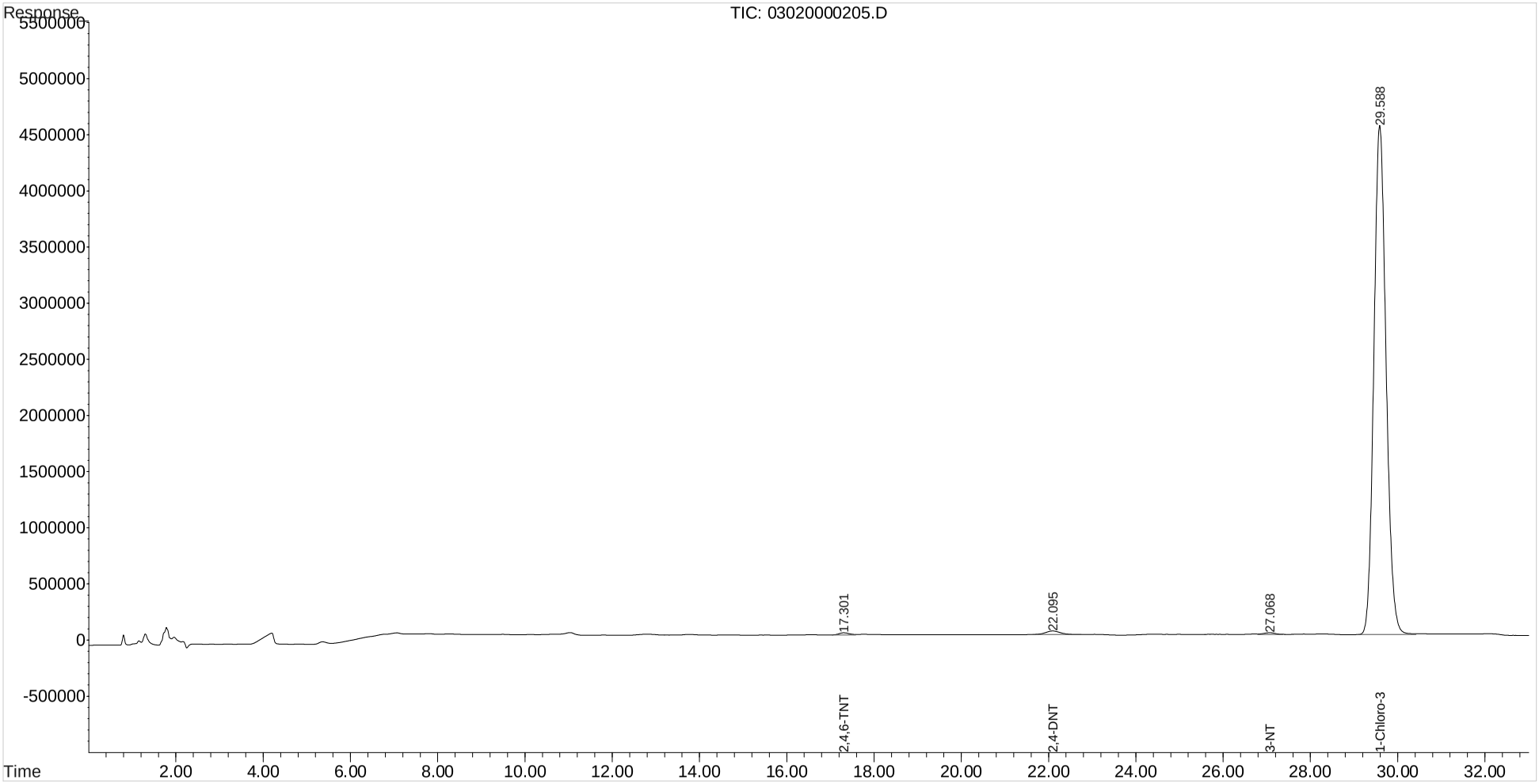
11/01/2018

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000205.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 14:24:54 Operator: BR
Sample : KWG1701417-9 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:24:17 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



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012317

(b) (6)

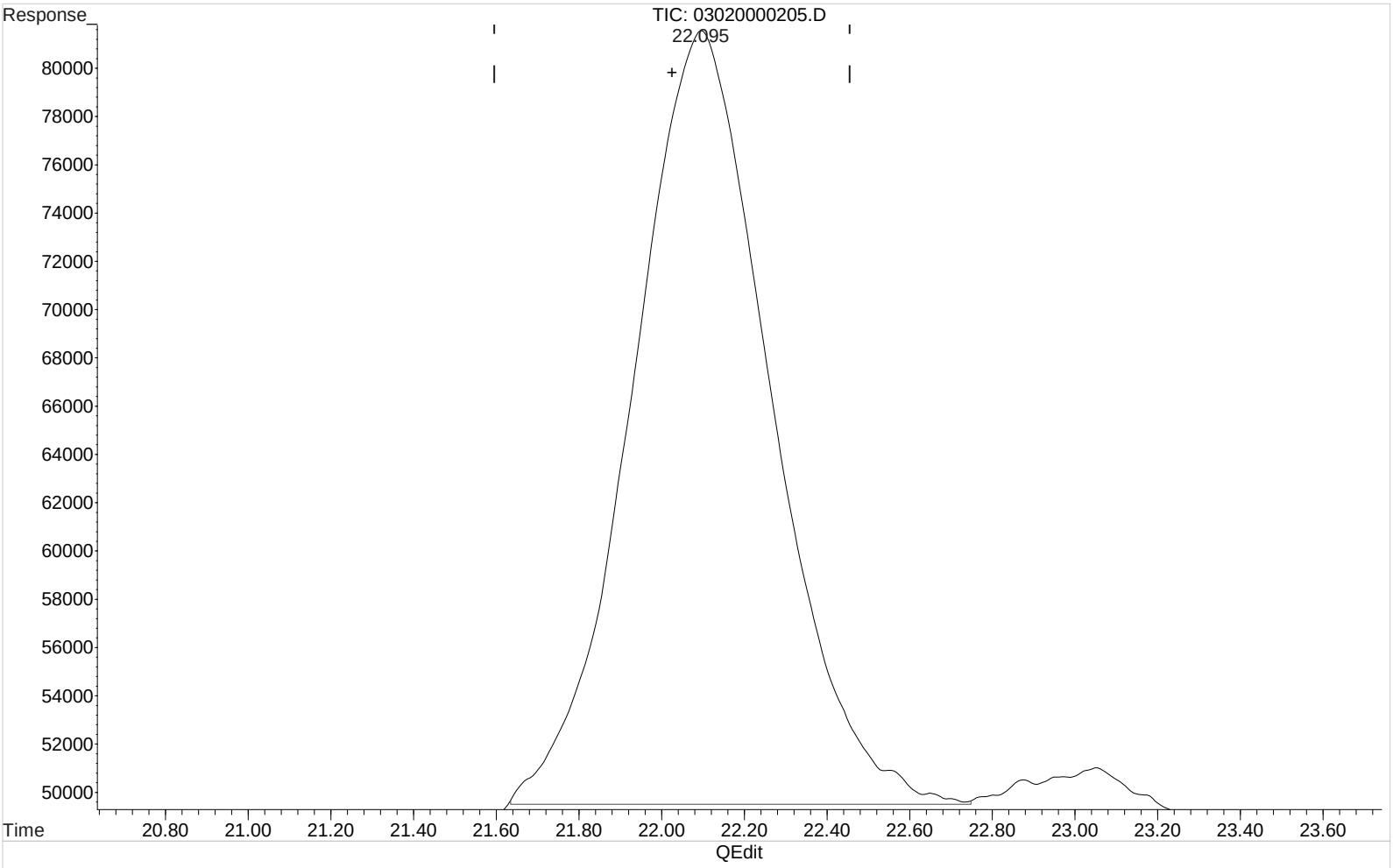
03/29/17

03/29/17

Data File: J:\LC10\Data\030317_8330_254\03020000205.D
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 14:24:54
Operator : BR
Sample : KWG1701417-9 MB
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: RTEINT.P
Quant Time: Mar 06 16:14:28 2017
Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
Integrator: RTE

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(14) 2,4-DNT (T)

22.095min 12.583 ug/L m

response 745356

No Before

Manual Integration:

After

Baseline/Shoulder

03/29/17

(+) = Expected Retention Time

(b) (6)

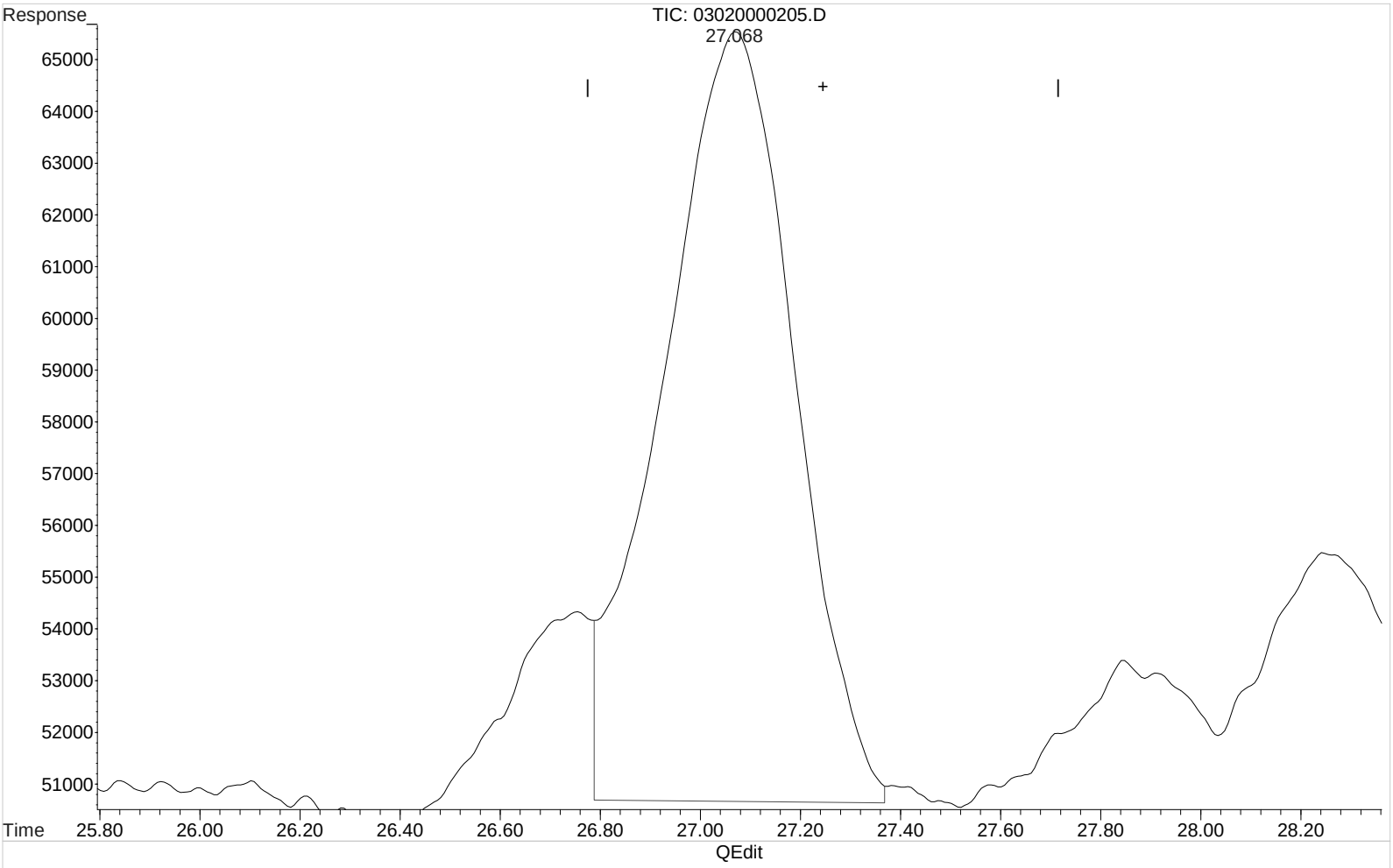
03/29/17

03/29/17

Data File: J:\LC10\Data\030317_8330_254\03020000205.D
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 14:24:54
Operator : BR
Sample : KWG1701417-9 MB
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: RTEINT.P
Quant Time: Mar 06 16:14:28 2017
Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
Integrator: RTE

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.068min 13.441 ug/L m

response 270646

No Before

Manual Integration:

After

Baseline/Shoulder

03/29/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000205.
Lab ID: KWG1701417-9
RunType: MB
Matrix: SOIL

Date Acquired: 03/02/2017 14:24
Date Quantitated: 03/06/2017 15:09
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000205.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 14:24	**Quant Date:**	03/06/2017 15:09	**Vial:**	5
Run Type:	MB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701417-9			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**		**Receive Date:**	03/01/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587785	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.59	0.05	233203476	4,101	82	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Wet Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**		0.058	U	
Pentaerythritol Tetranitrate	27.53	-0.06	1145898**m**	65.13	0.11	U	

Prep Amount:	10.000 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000205.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 14:24	**Quant Date:**	03/06/2017 15:09	**Vial:**	5
Run Type:	MB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701417-9			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**		**Receive Date:**	03/01/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587785	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.59	0.05	233203476	4,101	82	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Wet Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**		0.058	U	
Pentaerythritol Tetranitrate	27.53	-0.06	1145898**m**	65.13	0.11	U	

Prep Amount:	10.000 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000205.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 14:24:54 Operator: BR
Sample : KWG1701417-9 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:09:42 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.588	233203476	4101.229	ug/L	
Target Compounds						
1) T	Nitroglycerin	0.000	0	N.D.	ug/L	d
2) T	PETN	27.528	1145898	65.125	ug/L	m

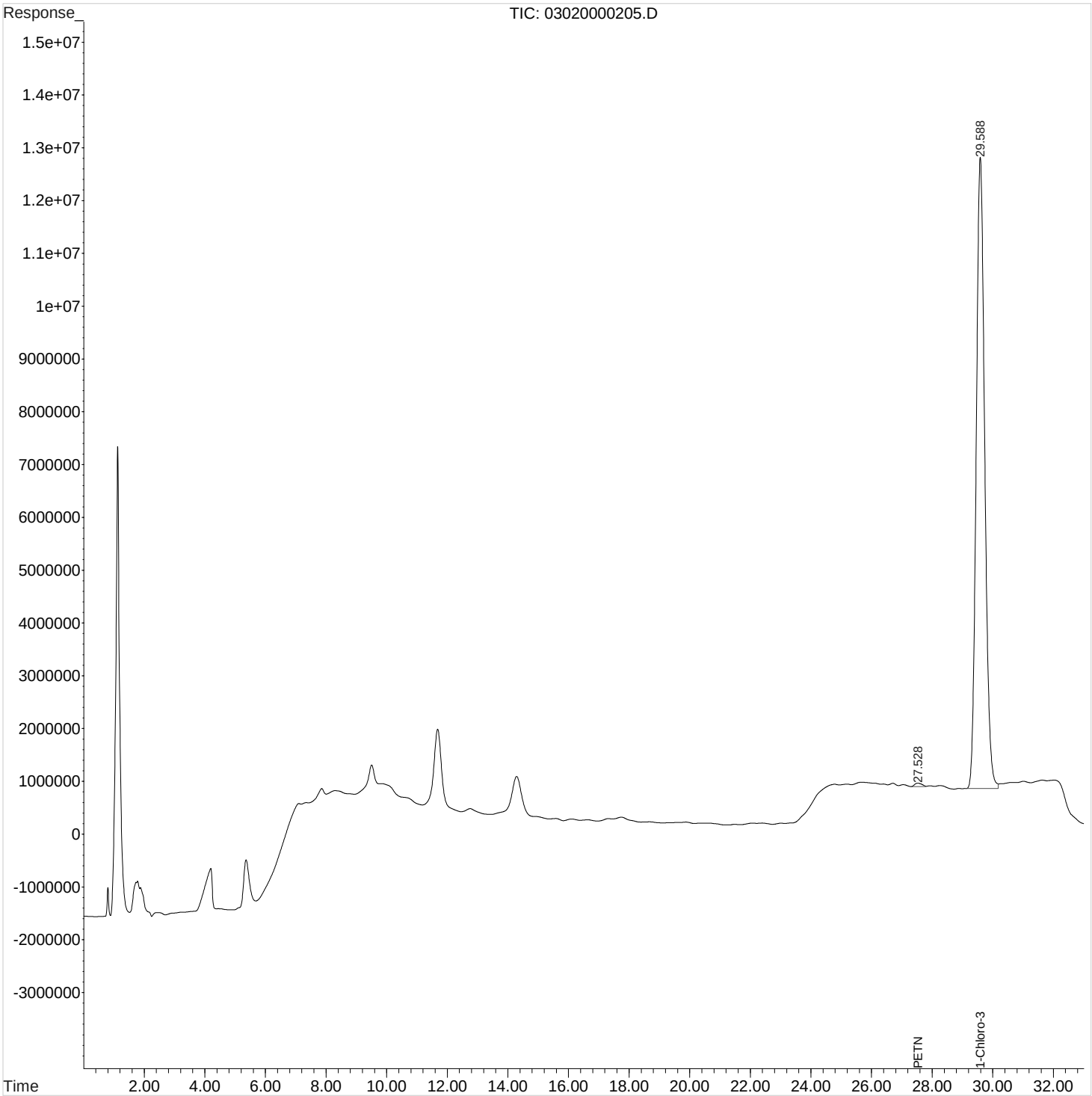
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000205.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 14:24:54 Operator: BR
Sample : KWG1701417-9 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:09:42 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

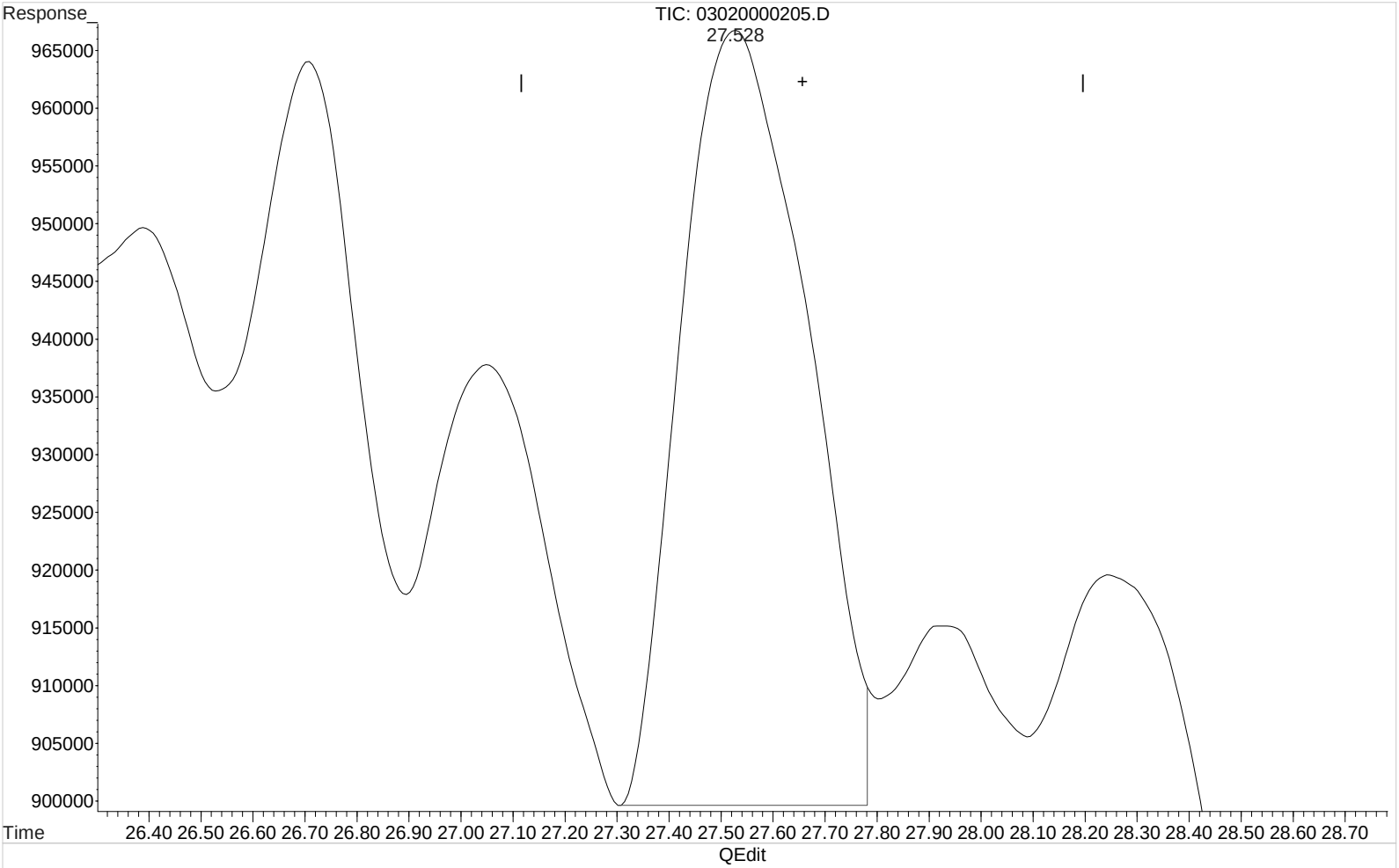


Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000205.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 14:24:54 Operator: BR
Sample : KWG1701417-9 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 14:59:44 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.528min 64.170 ug/L

response 1129110

Manual Integration:

Before

03/06/17

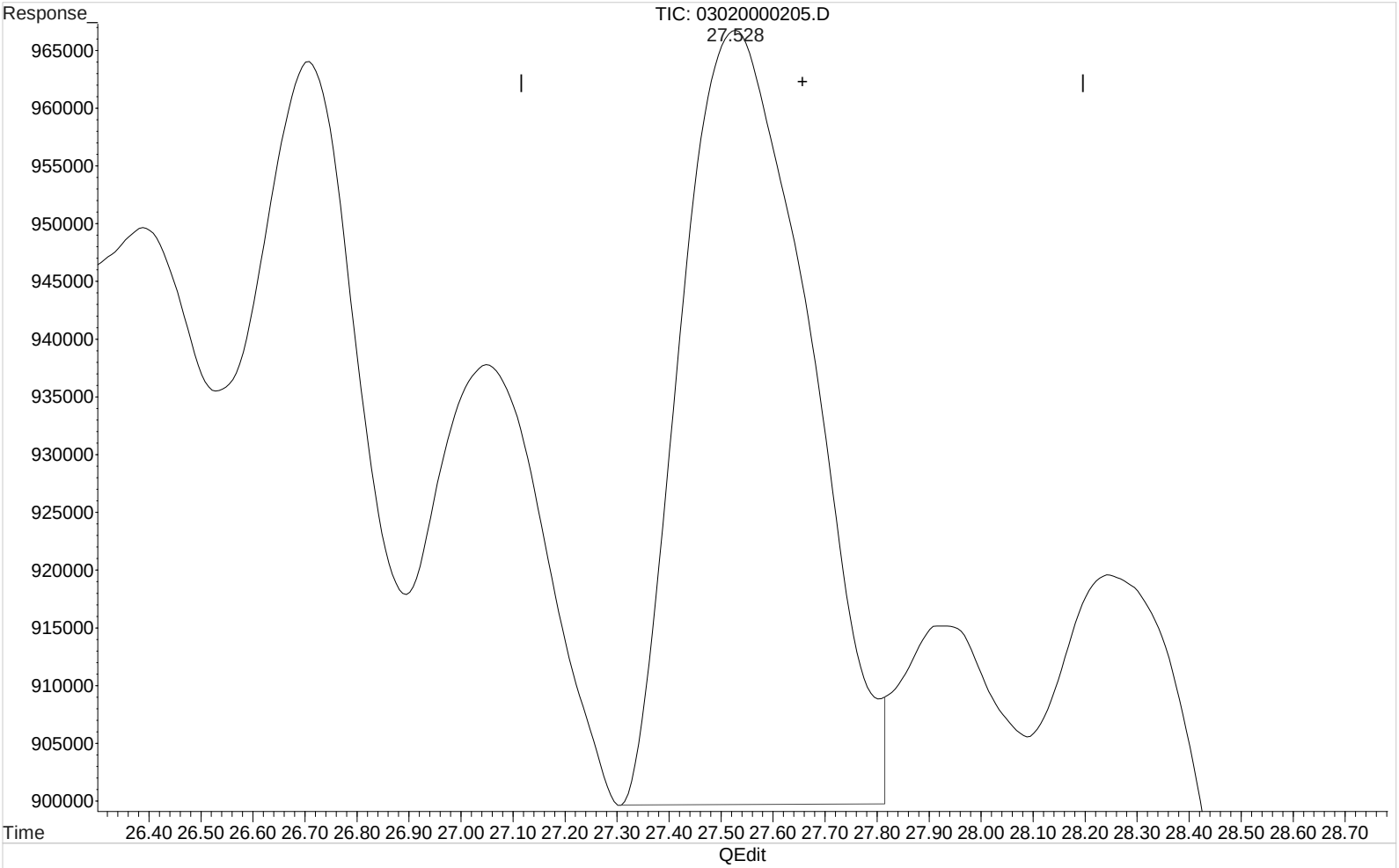
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000205.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 14:24:54 Operator: BR
Sample : KWG1701417-9 MB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 14:59:44 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.528min 65.125 ug/L m

response 1145898

Manual Integration:

After

BLC

03/06/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000232.
Lab ID: KWG1701417-3 -- K1701351-001MS
RunType: MS
Matrix: SOIL

Date Acquired: 03/03/2017 06:43
Date Quantitated: 03/08/2017 16:18
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000232.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 06:43	**Quant Date:**	03/08/2017 16:18	**Vial:**	26
Run Type:	MS	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701417-3 -- K1701351-001MS			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**		**Receive Date:**	03/01/2017

Analysis Lot:	KWG1701858	**Prep Lot:**	KWG1701417	**Report Group:**	
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587779	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_254\03020000205.D	**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.68	0.07	94875372	4,391	88	34-135	OK	

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX	4.76	0.01	30072434	2,511	2.03		
2,4-Diamino-6-nitrotoluene			0				
RDX	8.32	0.01	44634473	2,247	1.81		
1,3,5-Trinitrobenzene	10.44	0.01	113716495	2,546	2.05		
1,3-Dinitrobenzene	13.79	0.03	154185036	2,558	2.06		
3,5-Dinitroaniline	14.91	0.02	114538504	2,399	1.94		
TETRYL	15.51	0.02	80770655	2,418	1.95		
Nitrobenzene	16.12	0.01	97567338	2,527	2.04		
2,4,6-Trinitrotoluene	17.34	0.01	107261876	2,575	2.08		
4-Amino-2,6-dinitrotoluene	19.14	0.02	73591598	2,493	2.01		
2-Amino-4,6-dinitrotoluene	19.98	0.03	104313683	2,486	2.01		
2,6-Dinitrotoluene	21.68	0.04	70516536**m**	2,883	2.33		
2,4-Dinitrotoluene	22.15	0.05	147255825**m**	2,486	2.01		
2-Nitrotoluene	25.30	0.04	45583713	2,537	2.05		
4-Nitrotoluene	26.22	0.04	39329536	2,478	2.00		
3-Nitrotoluene	27.35	0.06	51267949	2,546	2.05		

Prep Amount:	10.007 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99.1 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000232.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 06:43	**Quant Date:**	03/08/2017 16:18	**Vial:**	26
Run Type:	MS	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701417-3 -- K1701351-001MS			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**		**Receive Date:**	03/01/2017

Analysis Lot:	KWG1701858	**Prep Lot:**	KWG1701417	**Report Group:**	
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587779	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:	J:\LC10\DATA\030317_8330_254\03020000205.D	**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.68	0.07	94875372	4,391	88	34-135	OK	

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX	4.76	0.01	30072434	2,511	2.03		
2,4-Diamino-6-nitrotoluene			0				
RDX	8.32	0.01	44634473	2,247	1.81		
1,3,5-Trinitrobenzene	10.44	0.01	113716495	2,546	2.05		
1,3-Dinitrobenzene	13.79	0.03	154185036	2,558	2.06		
3,5-Dinitroaniline	14.91	0.02	114538504	2,399	1.94		
TETRYL	15.51	0.02	80770655	2,418	1.95		
Nitrobenzene	16.12	0.01	97567338	2,527	2.04		
2,4,6-Trinitrotoluene	17.34	0.01	107261876	2,575	2.08		
4-Amino-2,6-dinitrotoluene	19.14	0.02	73591598	2,493	2.01		
2-Amino-4,6-dinitrotoluene	19.98	0.03	104313683	2,486	2.01		
2,6-Dinitrotoluene	21.68	0.04	70516536**m**	2,883	2.33		
2,4-Dinitrotoluene	22.15	0.05	147255825**m**	2,486	2.01		
2-Nitrotoluene	25.30	0.04	45583713	2,537	2.05		
4-Nitrotoluene	26.22	0.04	39329536	2,478	2.00		
3-Nitrotoluene	27.35	0.06	51267949	2,546	2.05		

Prep Amount:	10.007 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99.1 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000232.D Vial: 26
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 06:43:10 Operator: BR
Sample : K1701351-001 MS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 16:18:12 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
18)	S	1-Chloro-3-Nitrobenzene	29.677	94875372	4390.513	ug/L	
		Target Compounds					
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	4.764	30072434	2511.268	ug/L	
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	8.324	44634473	2247.427	ug/L	
5)	T	1,3,5-TNB	10.444	113716495	2545.918	ug/L	
6)	T	1,3-DNB	13.790	154185036	2557.718	ug/L	
7)	T	3,5-Dinitroaniline	14.910	114538504	2399.079	ug/L	
8)	T	Tetryl	15.510	80770655	2418.308	ug/L	
9)	T	Nitrobenzene	16.124	97567338	2526.715	ug/L	
10)	T	2,4,6-TNT	17.337	107261876	2575.065	ug/L	
11)	T	4-Amino-2,6-DNT	19.137	73591598	2493.458	ug/L	
12)	T	2-Amino-4,6-DNT	19.977	104313683	2485.907	ug/L	
13)	T	2,6-DNT	21.684	70516536	2882.610	ug/L	m
14)	T	2,4-DNT	22.150	147255825	2485.935	ug/L	m
15)	T	2-NT	25.297	45583713	2537.209	ug/L	
16)	T	4-NT	26.217	39329536	2477.948	ug/L	
17)	T	3-NT	27.350	51267949	2546.078	ug/L	

(f)=RT Delta > 1/2 Window (m)=manual int.

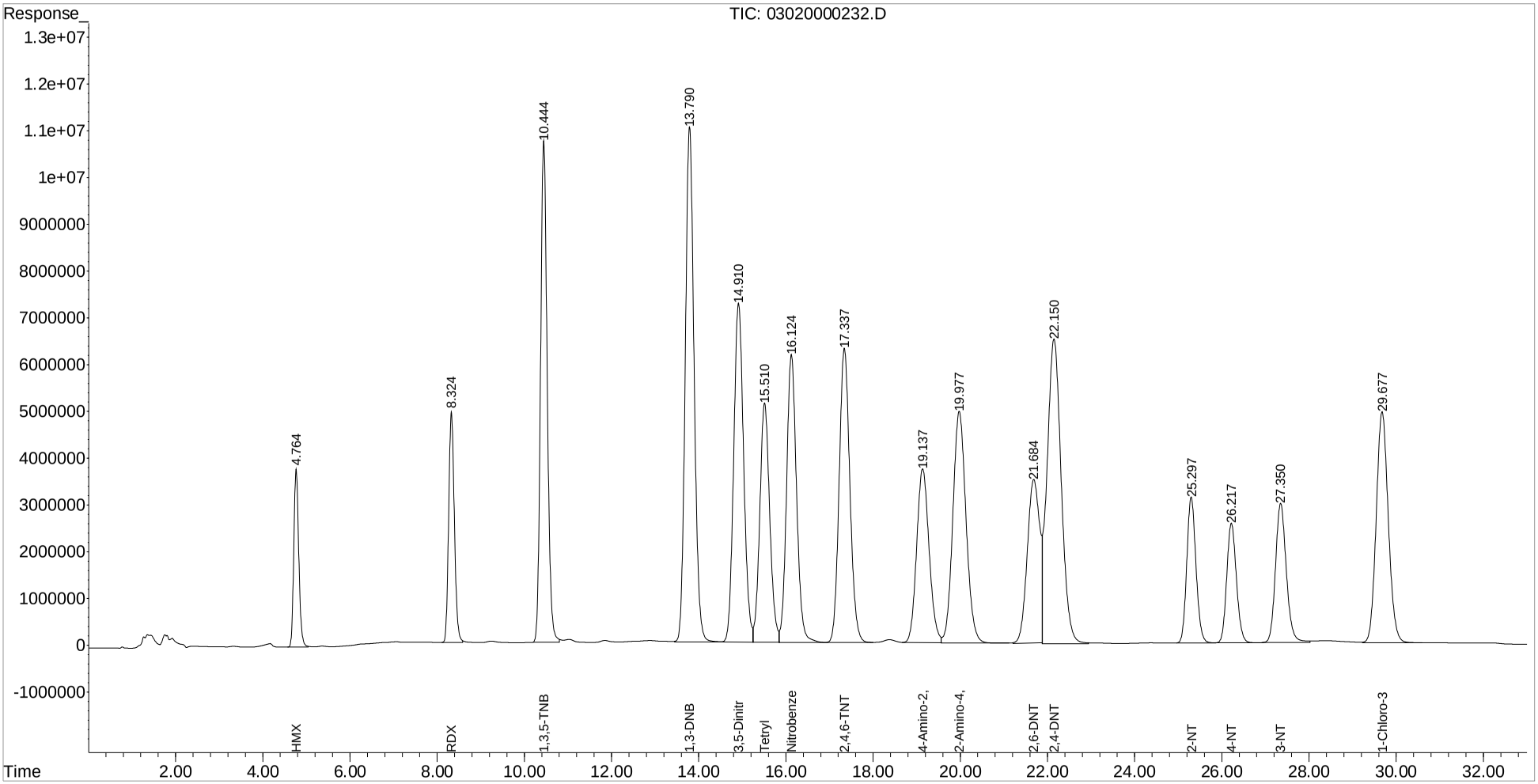
(9) (g) 03/14/17
03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000232.D Vial: 26
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 06:43:10 Operator: BR
Sample : K1701351-001 MS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 16:18:12 2017
Quant Results File: 120716_8330B@254.RES

11/01/2018

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



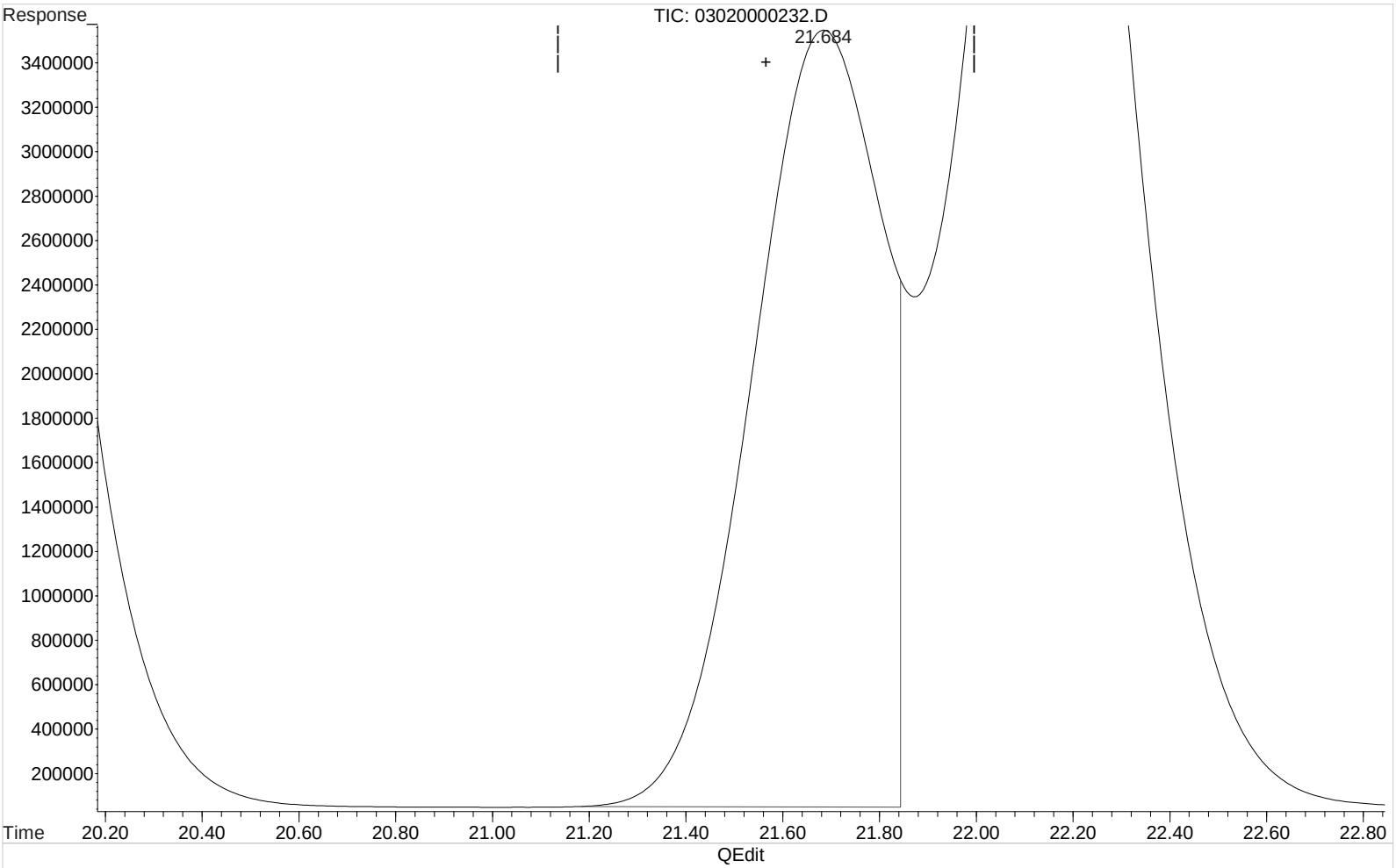
012331

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000232.D Vial: 26
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 06:43:10 Operator: BR
Sample : K1701351-001 MS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:23 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.684min 2652.250 ug/L

response 64881308

Manual Integration:

Before

03/08/17

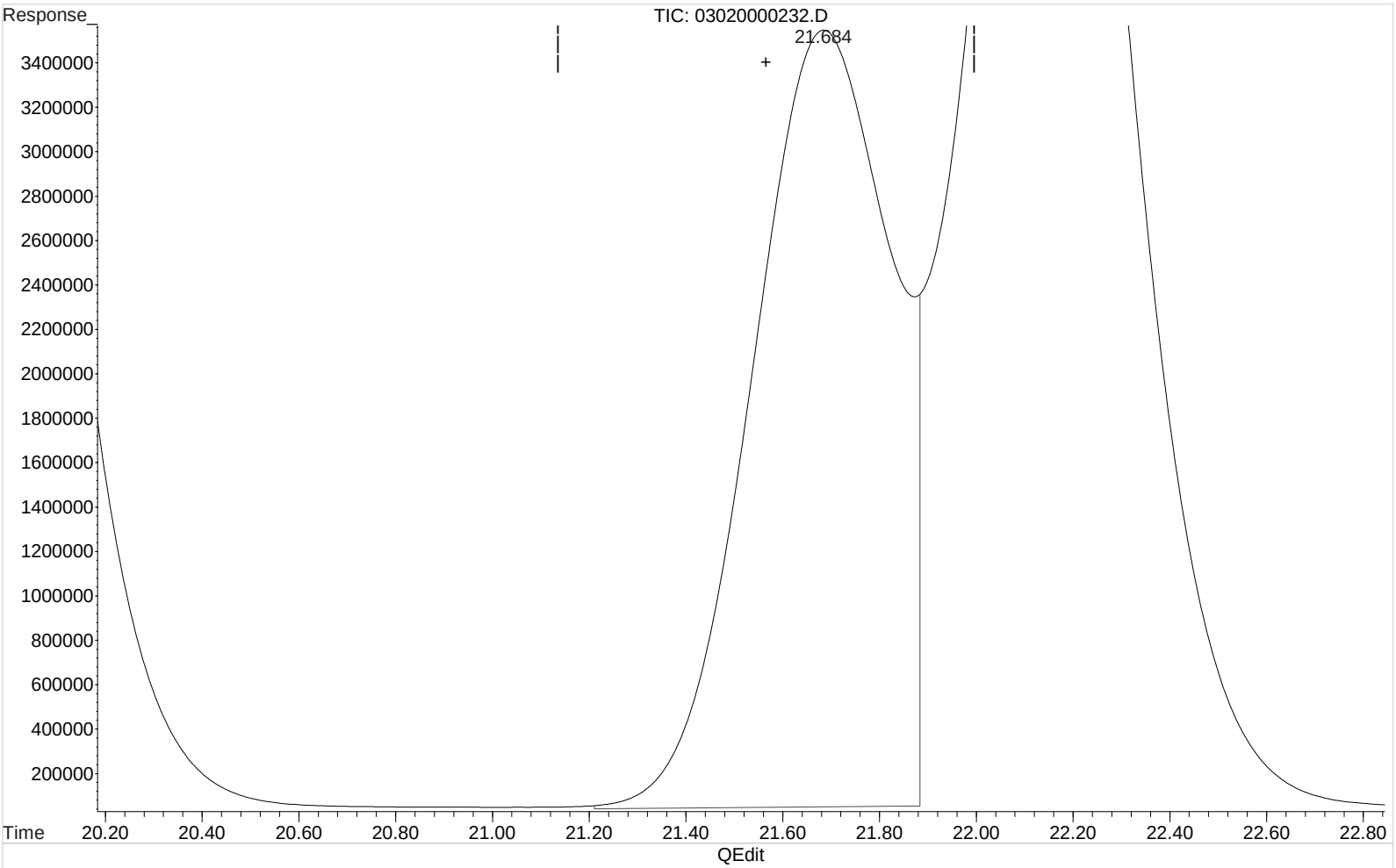
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000232.D Vial: 26
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 06:43:10 Operator: BR
Sample : K1701351-001 MS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:23 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.684min 2882.610 ug/L m

response 70516536

Manual Integration:

After

BLC

03/08/17

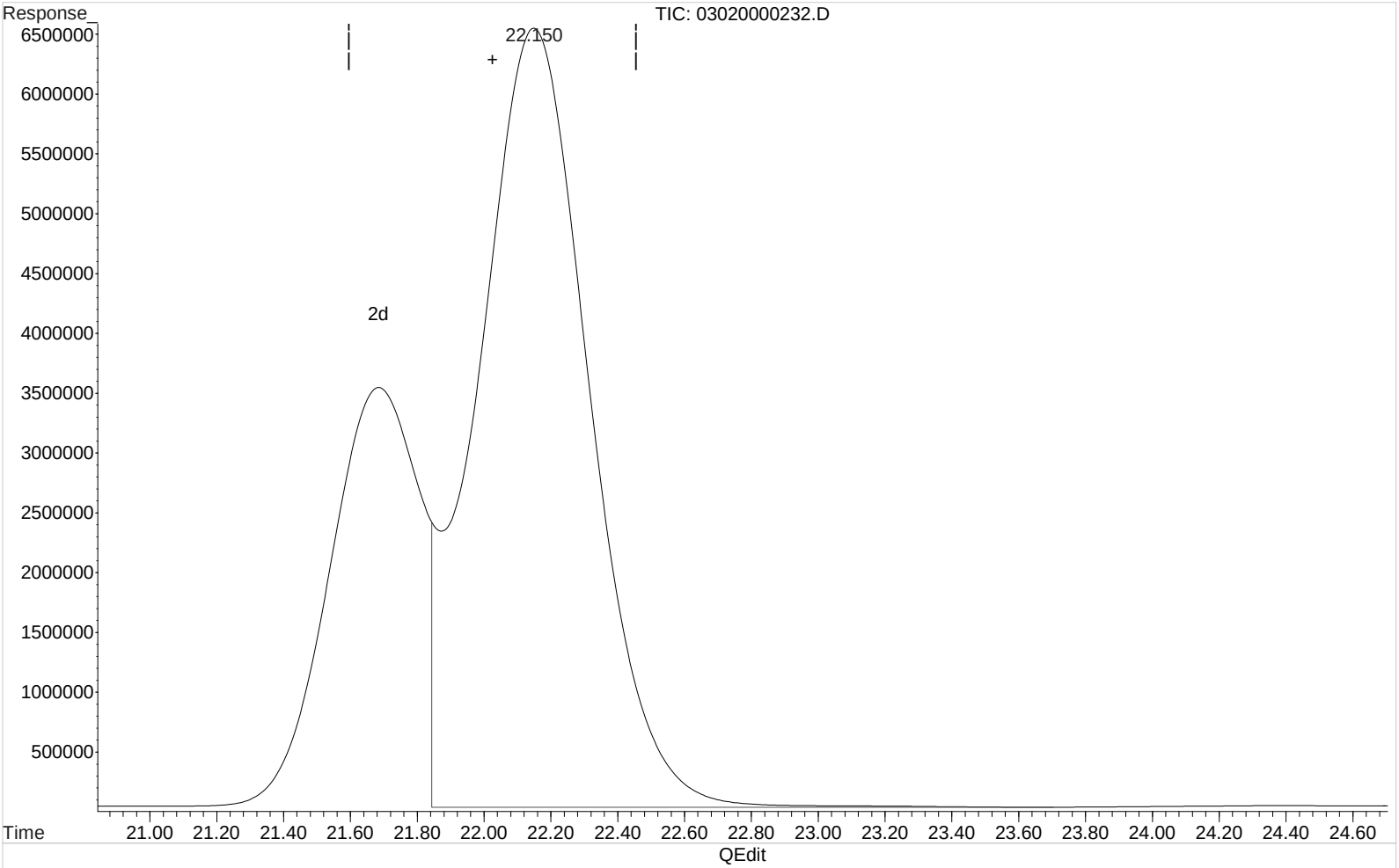
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000232.D Vial: 26
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 06:43:10 Operator: BR
Sample : K1701351-001 MS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:23 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.150min 2564.479 ug/L

response 151908421

Manual Integration:

Before

03/08/17

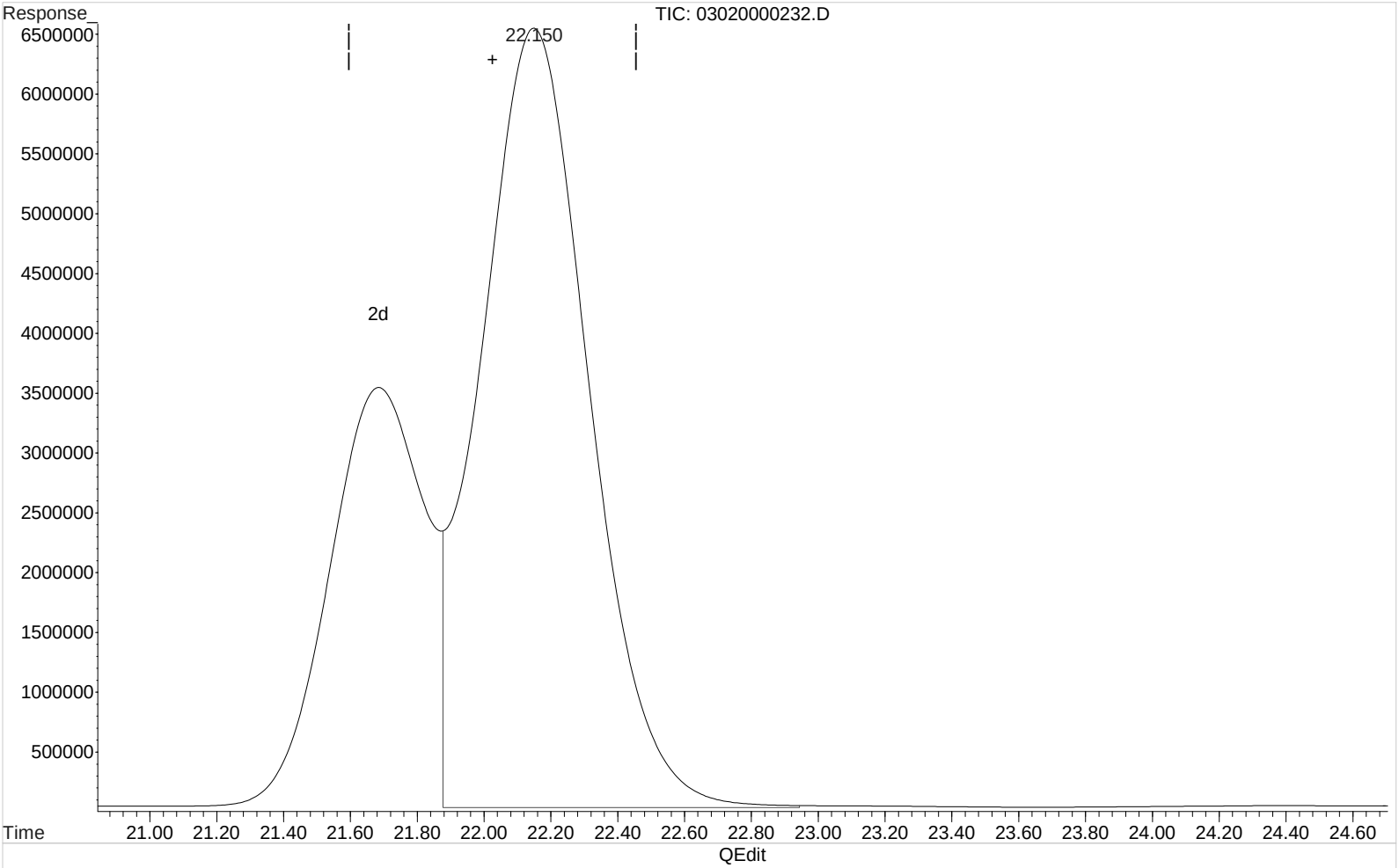
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000232.D Vial: 26
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 06:43:10 Operator: BR
Sample : K1701351-001 MS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:23 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.150min 2485.935 ug/L m

response 147255825

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000232.
Lab ID: KWG1701417-3 -- K1701351-001MS
RunType: MS
Matrix: SOIL

Date Acquired: 03/03/2017 06:43
Date Quantitated: 03/08/2017 13:58
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000232.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 06:43	**Quant Date:**	03/08/2017 13:58	**Vial:**	26
Run Type:	MS	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701417-3 -- K1701351-001MS			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**		**Receive Date:**	03/01/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587779	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_210\03020000205.D	**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.68	0.07	254592525	4,477	90	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.54	0.01	56343204**m**	2,703	2.18		
Pentaerythritol Tetranitrate	27.70	0.07	42655733**m**	2,424	1.96		

Prep Amount:	10.007 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99.1 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000232.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 06:43	**Quant Date:**	03/08/2017 13:58	**Vial:**	26
Run Type:	MS	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701417-3 -- K1701351-001MS			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**		**Receive Date:**	03/01/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587779	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:	J:\LC10\DATA\030317_8330_210\03020000205.D	**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.68	0.07	254592525	4,477	90	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.54	0.01	56343204**m**	2,703	2.18		
Pentaerythritol Tetranitrate	27.70	0.07	42655733**m**	2,424	1.96		

Prep Amount:	10.007 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99.1 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000232.D Vial: 26
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 06:43:10 Operator: BR
Sample : K1701351-001 MS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 13:58:09 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.677	254592525	4477.387	ug/L	
Target Compounds						
1) T	Nitroglycerin	16.544	56343204	2702.741	ug/L	m
2) T	PETN	27.704	42655733	2424.245	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)

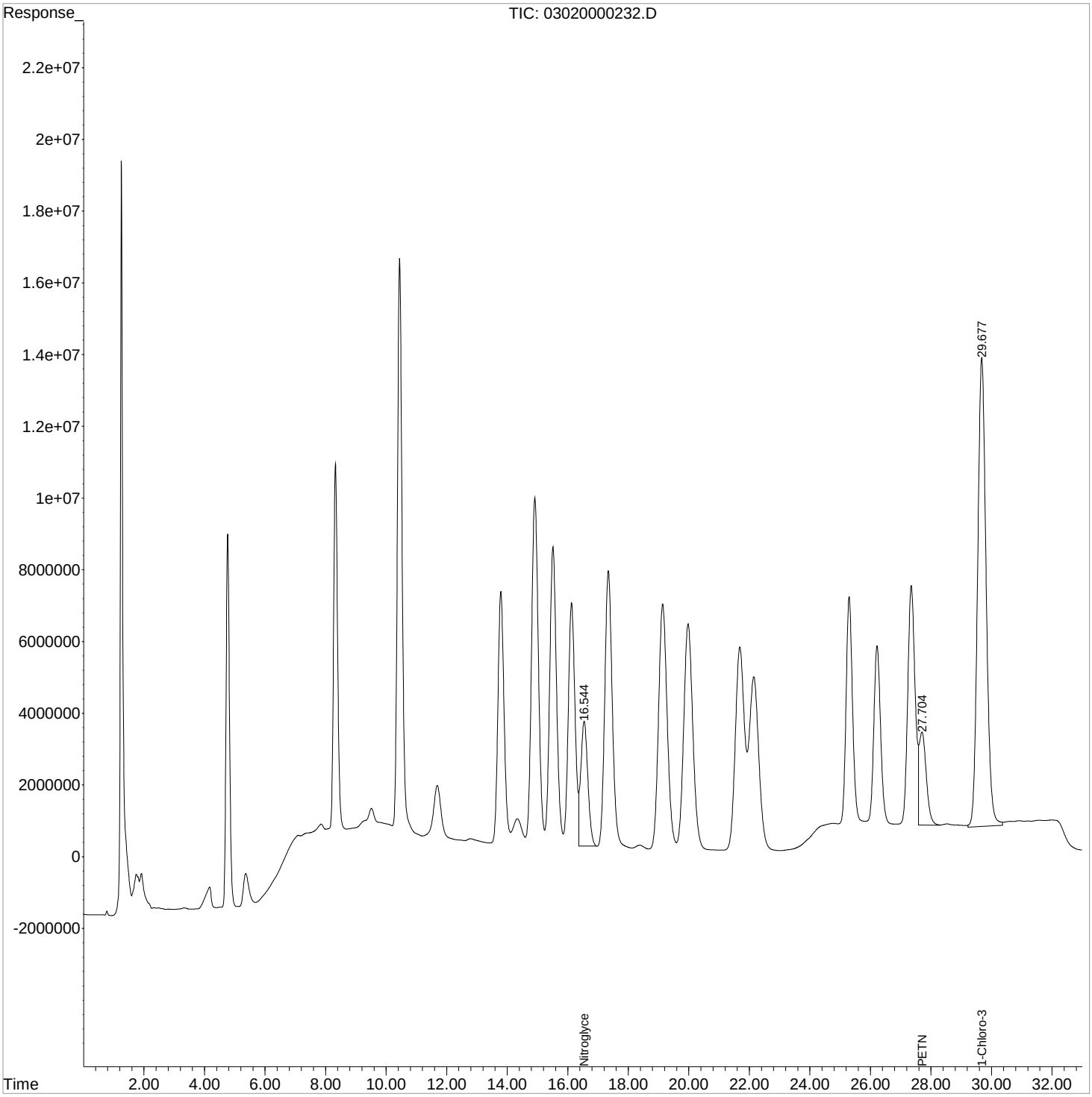
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_210\03020000232.D Vial: 26
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 06:43:10 Operator: BR
Sample : K1701351-001 MS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 13:58:09 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

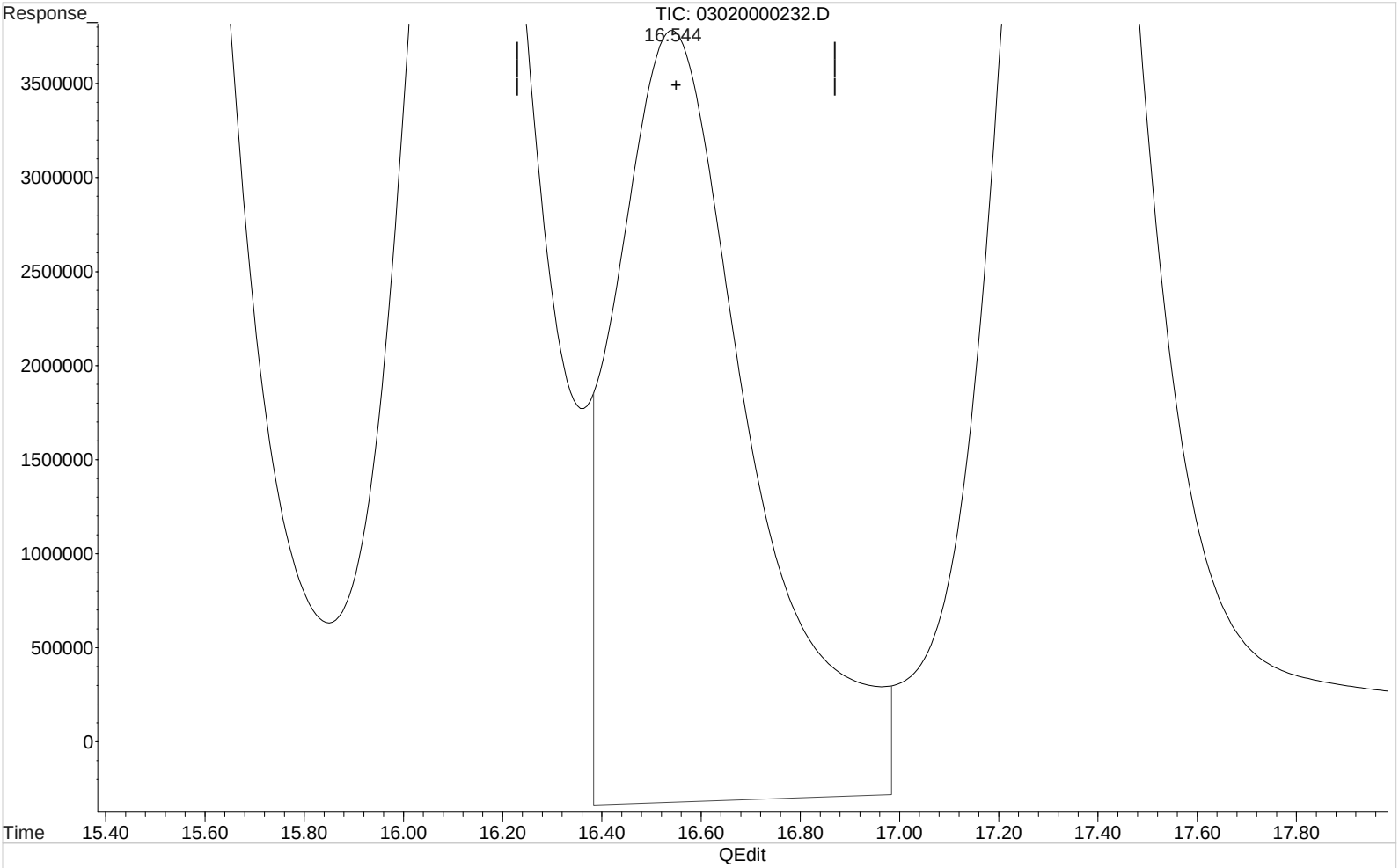


Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000232.D Vial: 26
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 06:43:10 Operator: BR
Sample : K1701351-001 MS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:00:38 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.544min 3660.409 ug/L

response 76307412

Manual Integration:

Before

03/06/17

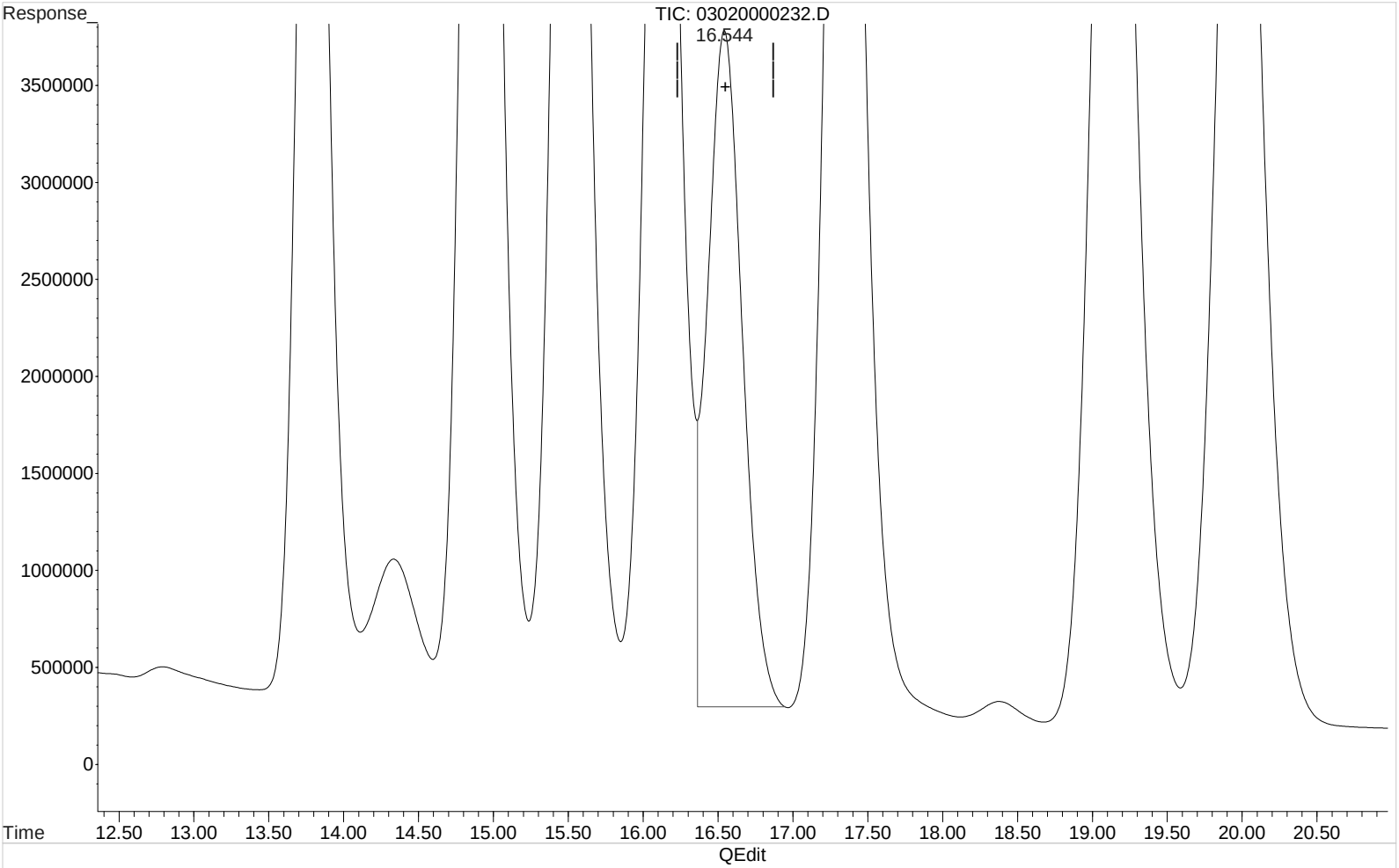
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000232.D Vial: 26
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 06:43:10 Operator: BR
Sample : K1701351-001 MS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:56:01 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.544min 2702.741 ug/L m

response 56343204

Manual Integration:

After

BLC

03/08/17

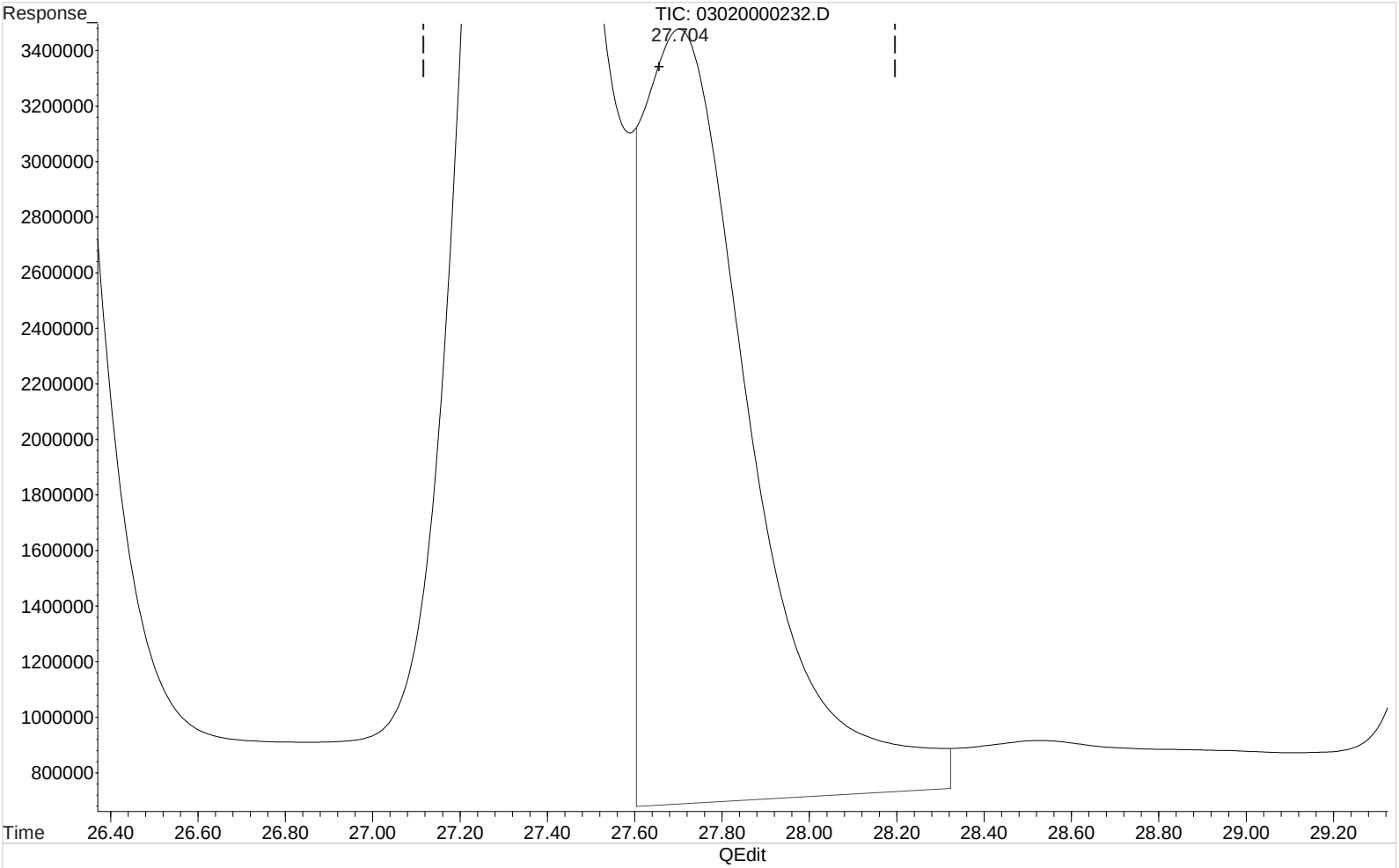
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000232.D Vial: 26
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 06:43:10 Operator: BR
Sample : K1701351-001 MS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:56:01 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.704min 2697.411 ug/L

response 47462222

Manual Integration:

Before

03/08/17

(+) = Expected Retention Time

(b) (6)

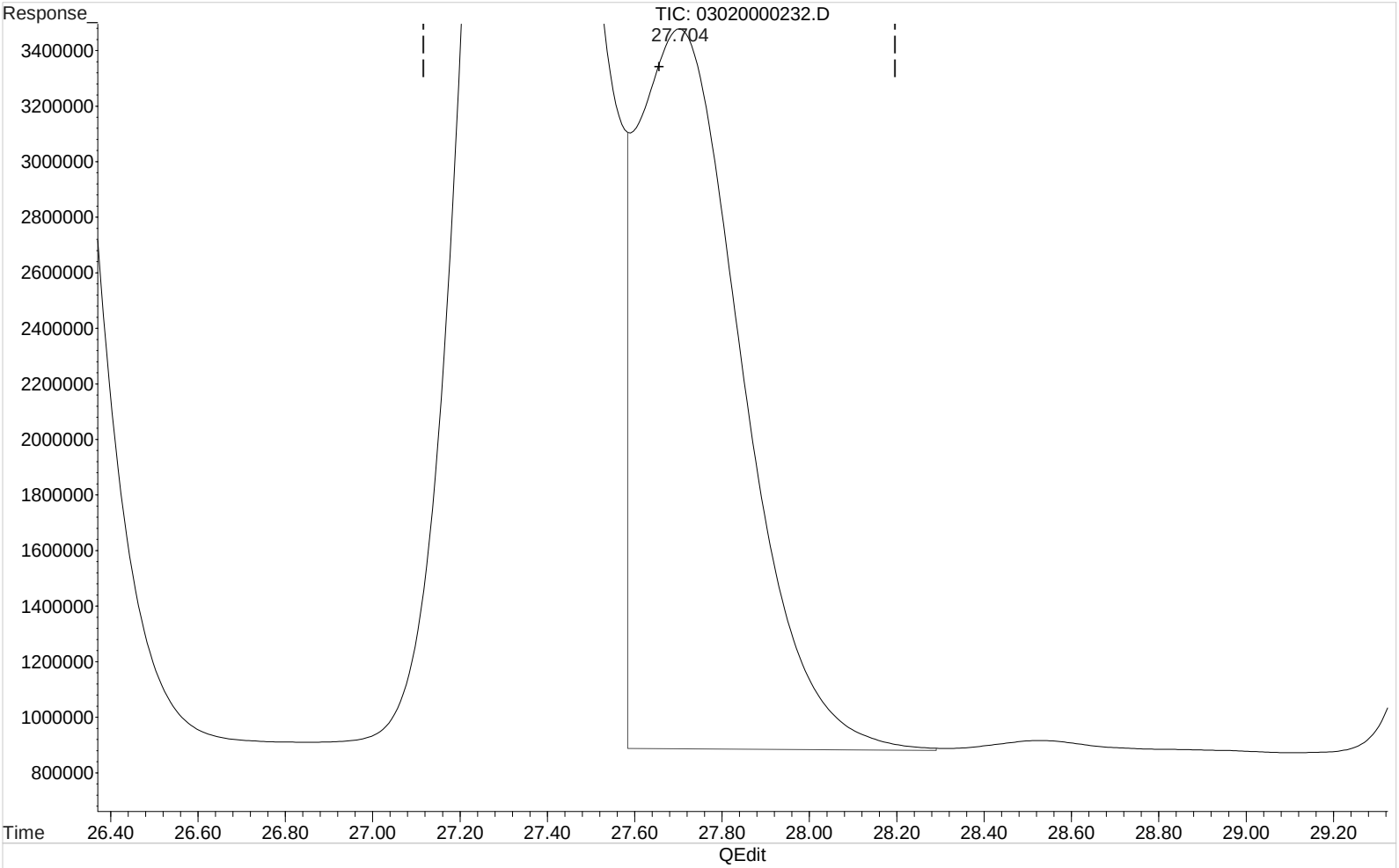
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_210\03020000232.D Vial: 26
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 06:43:10 Operator: BR
Sample : K1701351-001 MS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:56:01 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.704min 2424.245 ug/L m

response 42655733

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000233.
Lab ID: KWG1701417-4 -- K1701351-001DMS
RunType: DMS
Matrix: SOIL

Date Acquired: 03/03/2017 07:19
Date Quantitated: 03/10/2017 09:56
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000233.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 07:19	**Quant Date:**	03/10/2017 09:56	**Vial:**	27
Run Type:	DMS	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701417-4 -- K1701351-001DMS			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**		**Receive Date:**	03/01/2017

Analysis Lot:	KWG1701858	**Prep Lot:**	KWG1701417	**Report Group:**	
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587780	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_254\03020000205.D	**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.64	0.03	97820729	4,527	91	34-135	OK	

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0**d**				
HMX	4.76	0.01	31018704	2,590	2.09		
2,4-Diamino-6-nitrotoluene			0				
RDX	8.33	0.02	45780154	2,305	1.86		
1,3,5-Trinitrobenzene	10.46	0.03	117232490	2,625	2.12		
1,3-Dinitrobenzene	13.80	0.04	156991238	2,604	2.10		
3,5-Dinitroaniline	14.92	0.03	117265694	2,456	1.98		
TETRYL	15.51	0.02	85213405	2,551	2.06		
Nitrobenzene	16.13	0.02	98255954	2,545	2.05		
2,4,6-Trinitrotoluene	17.35	0.02	109657290	2,633	2.12		
4-Amino-2,6-dinitrotoluene	19.13	0.01	75893522	2,571	2.07		
2-Amino-4,6-dinitrotoluene	19.96	0.01	106805977	2,545	2.05		
2,6-Dinitrotoluene	21.66	0.02	69122306	2,826	2.28		
2,4-Dinitrotoluene	22.12	0.02	151531494	2,558	2.06		
2-Nitrotoluene	25.27	0.01	45771222	2,548	2.05		
4-Nitrotoluene	26.18		39515176	2,490	2.01		
3-Nitrotoluene	27.32	0.03	51491208	2,557	2.06		

Prep Amount:	10.017 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99.1 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000233.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 07:19	**Quant Date:**	03/10/2017 09:56	**Vial:**	27
Run Type:	DMS	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701417-4 -- K1701351-001DMS			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**		**Receive Date:**	03/01/2017

Analysis Lot:	KWG1701858	**Prep Lot:**	KWG1701417	**Report Group:**	
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587780	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:	J:\LC10\DATA\030317_8330_254\03020000205.D	**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.64	0.03	97820729	4,527	91	34-135	OK	

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0**d**				
HMX	4.76	0.01	31018704	2,590	2.09		
2,4-Diamino-6-nitrotoluene			0				
RDX	8.33	0.02	45780154	2,305	1.86		
1,3,5-Trinitrobenzene	10.46	0.03	117232490	2,625	2.12		
1,3-Dinitrobenzene	13.80	0.04	156991238	2,604	2.10		
3,5-Dinitroaniline	14.92	0.03	117265694	2,456	1.98		
TETRYL	15.51	0.02	85213405	2,551	2.06		
Nitrobenzene	16.13	0.02	98255954	2,545	2.05		
2,4,6-Trinitrotoluene	17.35	0.02	109657290	2,633	2.12		
4-Amino-2,6-dinitrotoluene	19.13	0.01	75893522	2,571	2.07		
2-Amino-4,6-dinitrotoluene	19.96	0.01	106805977	2,545	2.05		
2,6-Dinitrotoluene	21.66	0.02	69122306	2,826	2.28		
2,4-Dinitrotoluene	22.12	0.02	151531494	2,558	2.06		
2-Nitrotoluene	25.27	0.01	45771222	2,548	2.05		
4-Nitrotoluene	26.18		39515176	2,490	2.01		
3-Nitrotoluene	27.32	0.03	51491208	2,557	2.06		

Prep Amount:	10.017 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99.1 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000233.D Vial: 27
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 07:19:23 Operator: BR
Sample : K1701351-001 DMS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 09:56:36 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
18) S	1-Chloro-3-Nitrobenzene	29.643	97820729	4526.815	ug/L	
	Target Compounds					
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	d
2) T	HMX	4.763	31018704	2590.289	ug/L	
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4) T	RDX	8.330	45780154	2305.114	ug/L	
5) T	1,3,5-TNB	10.463	117232490	2624.636	ug/L	
6) T	1,3-DNB	13.797	156991238	2604.269	ug/L	
7) T	3,5-Dinitroaniline	14.917	117265694	2456.201	ug/L	
8) T	Tetryl	15.510	85213405	2551.326	ug/L	
9) T	Nitrobenzene	16.130	98255954	2544.548	ug/L	
10) T	2,4,6-TNT	17.350	109657290	2632.572	ug/L	
11) T	4-Amino-2,6-DNT	19.130	75893522	2571.453	ug/L	
12) T	2-Amino-4,6-DNT	19.957	106805977	2545.301	ug/L	
13) T	2,6-DNT	21.663	69122306	2825.616	ug/L	
14) T	2,4-DNT	22.123	151531494	2558.116	ug/L	
15) T	2-NT	25.270	45771222	2547.646	ug/L	
16) T	4-NT	26.183	39515176	2489.644	ug/L	
17) T	3-NT	27.317	51491208	2557.166	ug/L	

(f)=RT Delta > 1/2 Window (m)=manual int.

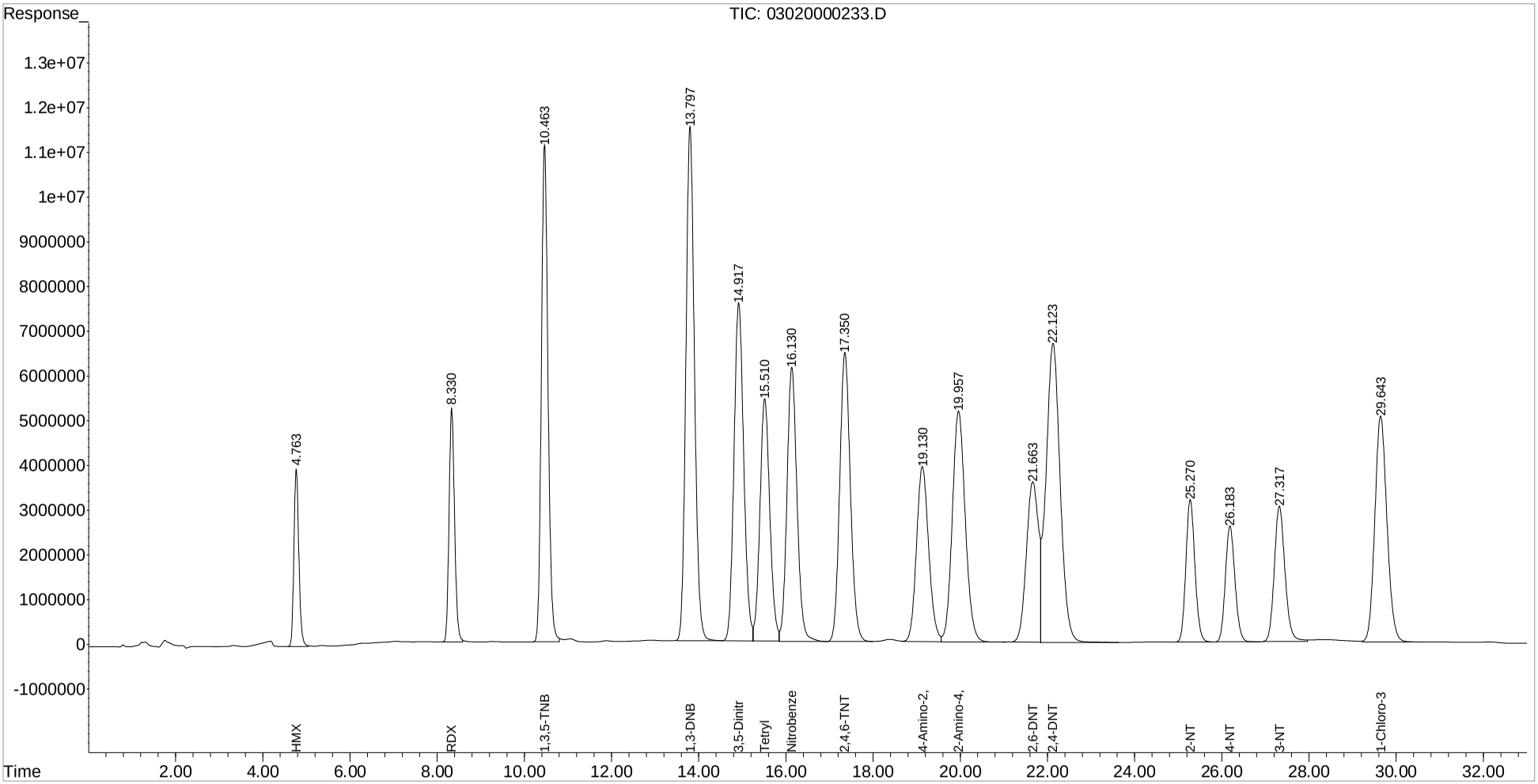
Quantitation Report (QT Reviewed)

[redacted] 03/14/17
03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000233.D Vial: 27
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 07:19:23 Operator: BR
Sample : K1701351-001 DMS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 09:56:36 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000233.
Lab ID: KWG1701417-4 -- K1701351-001DMS
RunType: DMS
Matrix: SOIL

Date Acquired: 03/03/2017 07:19
Date Quantitated: 03/06/2017 15:00
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000233.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 07:19	**Quant Date:**	03/06/2017 15:00	**Vial:**	27
Run Type:	DMS	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701417-4 -- K1701351-001DMS			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**		**Receive Date:**	03/01/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587780	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_210\03020000205.D	**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.64	0.03	257676097	4,532	91	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.56	0.03	56857081	2,727	2.20		
Pentaerythritol Tetranitrate	27.66	0.03	44522195	2,530	2.04		

Prep Amount:	10.017 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99.1 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000233.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 07:19	**Quant Date:**	03/06/2017 15:00	**Vial:**	27
Run Type:	DMS	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701417-4 -- K1701351-001DMS			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**		**Receive Date:**	03/01/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587780	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:	J:\LC10\DATA\030317_8330_210\03020000205.D	**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.64	0.03	257676097	4,532	91	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.56	0.03	56857081	2,727	2.20		
Pentaerythritol Tetranitrate	27.66	0.03	44522195	2,530	2.04		

Prep Amount:	10.017 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99.1 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000233.D Vial: 27
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 07:19:23 Operator: BR
Sample : K1701351-001 DMS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:00:40 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	29.643	257676097	4531.617 ug/L
Target Compounds				
1) T	Nitroglycerin	16.557	56857081	2727.391 ug/L
2) T	PETN	27.663	44522195	2530.321 ug/L

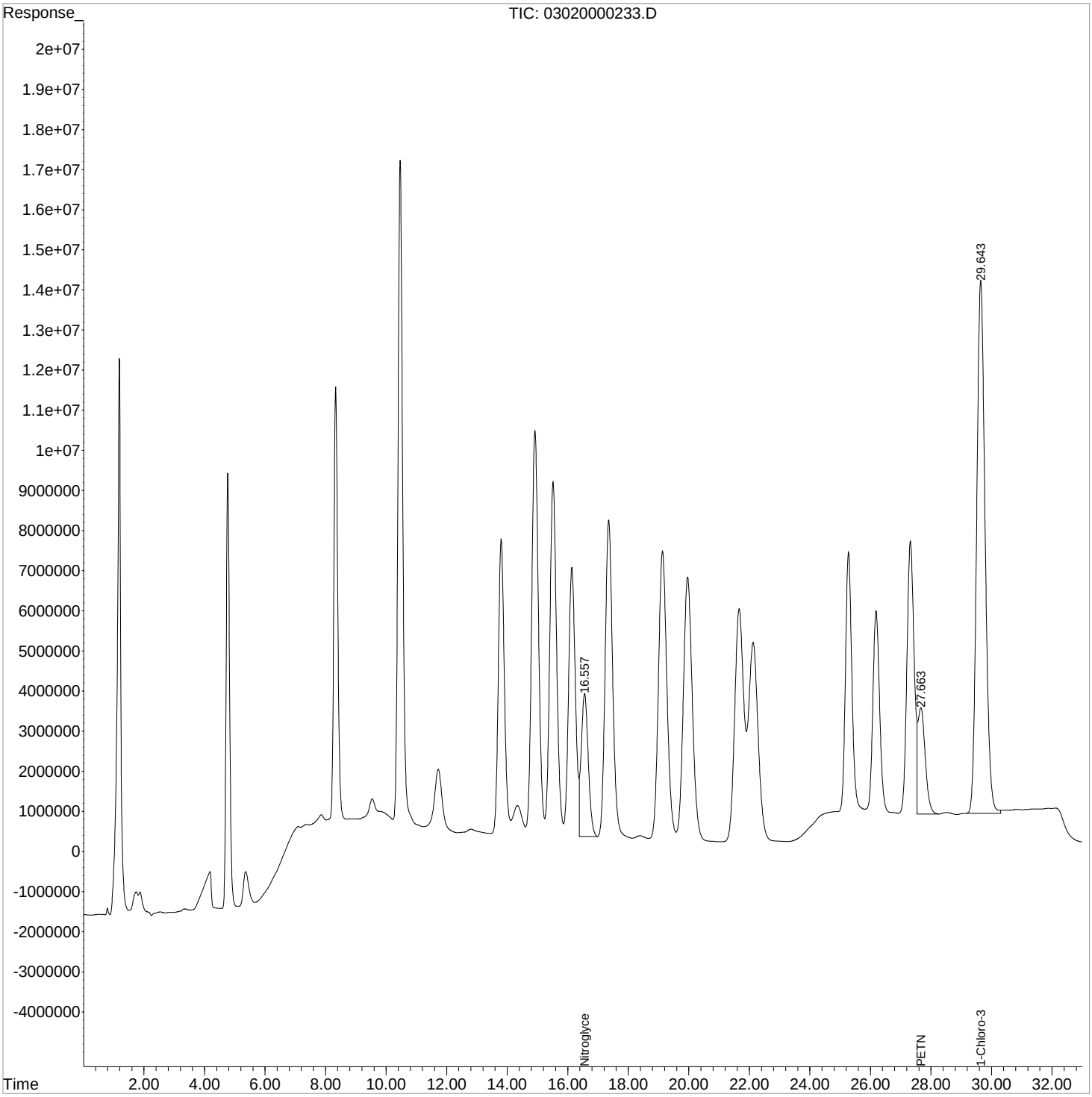
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000233.D Vial: 27
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 07:19:23 Operator: BR
Sample : K1701351-001 DMS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:00:40 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000230.
Lab ID: KWG1701417-1 -- K1701351-001DUP
RunType: DUP
Matrix: SOIL

Date Acquired: 03/03/2017 05:30
Date Quantitated: 03/10/2017 09:52
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000230.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 05:30	**Quant Date:**	03/10/2017 10:52	**Vial:**	24
Run Type:	DUP	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701417-1			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**		**Receive Date:**	03/01/2017

Analysis Lot:	KWG1701858	**Prep Lot:**	KWG1701417	**Report Group:**	
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587777	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_254\03020000205.D	**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.62	0.01	90556102	4,191	84	34-135	OK	

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0		0.0065	U	
2,4-Diamino-6-nitrotoluene			0				
RDX			0**d**		0.050	U	
1,3,5-Trinitrobenzene			0**d**		0.028	U	
1,3-Dinitrobenzene	13.74	-0.02	181699**m**	3.01	0.013	U	
3,5-Dinitroaniline			0		0.063	U	
TETRYL			0		0.042	U	
Nitrobenzene	16.14	0.03	98936**m**	2.56	0.0045	U	
2,4,6-Trinitrotoluene	17.33		342256**m**	8.22	0.019	U	
4-Amino-2,6-dinitrotoluene			0		0.0052	U	
2-Amino-4,6-dinitrotoluene			0		0.0076	U	
2,6-Dinitrotoluene			0		0.0052	U	
2,4-Dinitrotoluene	22.07	-0.03	381077**m**	6.43	0.042	U	
2-Nitrotoluene	25.00	-0.26	58082**m**	3.23	0.0072	U	
4-Nitrotoluene			0		0.019	U	
3-Nitrotoluene	27.07	-0.22	370290**m**	18.39	0.019	U	

Prep Amount:	10.004 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99.1 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000230.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 05:30	**Quant Date:**	03/10/2017 10:52	**Vial:**	24
Run Type:	DUP	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701417-1			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**		**Receive Date:**	03/01/2017

Analysis Lot:	KWG1701858	**Prep Lot:**	KWG1701417	**Report Group:**	
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587777	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:	J:\LC10\DATA\030317_8330_254\03020000205.D	**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.62	0.01	90556102	4,191	84	34-135	OK	

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0		0.0065	U	
2,4-Diamino-6-nitrotoluene			0				
RDX			0**d**		0.050	U	
1,3,5-Trinitrobenzene			0**d**		0.028	U	
1,3-Dinitrobenzene	13.74	-0.02	181699**m**	3.01	0.013	U	
3,5-Dinitroaniline			0		0.063	U	
TETRYL			0		0.042	U	
Nitrobenzene	16.14	0.03	98936**m**	2.56	0.0045	U	
2,4,6-Trinitrotoluene	17.33		342256**m**	8.22	0.019	U	
4-Amino-2,6-dinitrotoluene			0		0.0052	U	
2-Amino-4,6-dinitrotoluene			0		0.0076	U	
2,6-Dinitrotoluene			0		0.0052	U	
2,4-Dinitrotoluene	22.07	-0.03	381077**m**	6.43	0.042	U	
2-Nitrotoluene	25.00	-0.26	58082**m**	3.23	0.0072	U	
4-Nitrotoluene			0		0.019	U	
3-Nitrotoluene	27.07	-0.22	370290**m**	18.39	0.019	U	

Prep Amount:	10.004 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99.1 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000230.D Vial: 24
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 05:30:47 Operator: BR
Sample : K1701351-001 DUP Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 10:52:45 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
18)	S	1-Chloro-3-Nitrobenzene	29.623	90556102	4190.632	ug/L	
		Target Compounds					
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	0.000	0	N.D.	ug/L	
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	0.000	0	N.D.	ug/L	d
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L	d
6)	T	1,3-DNB	13.743	181699	3.014	ug/L	m
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L	
8)	T	Tetryl	0.000	0	N.D.	ug/L	
9)	T	Nitrobenzene	16.136	98936	2.562	ug/L	m
10)	T	2,4,6-TNT	17.330	342256	8.217	ug/L	m
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L	
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L	
13)	T	2,6-DNT	0.000	0	N.D.	ug/L	
14)	T	2,4-DNT	22.070	381077	6.433	ug/L	m
15)	T	2-NT	25.003f	58082	3.233	ug/L	m
16)	T	4-NT	0.000	0	N.D.	ug/L	
17)	T	3-NT	27.070	370290	18.389	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] (b) (6)
03/14/17
03/29/17

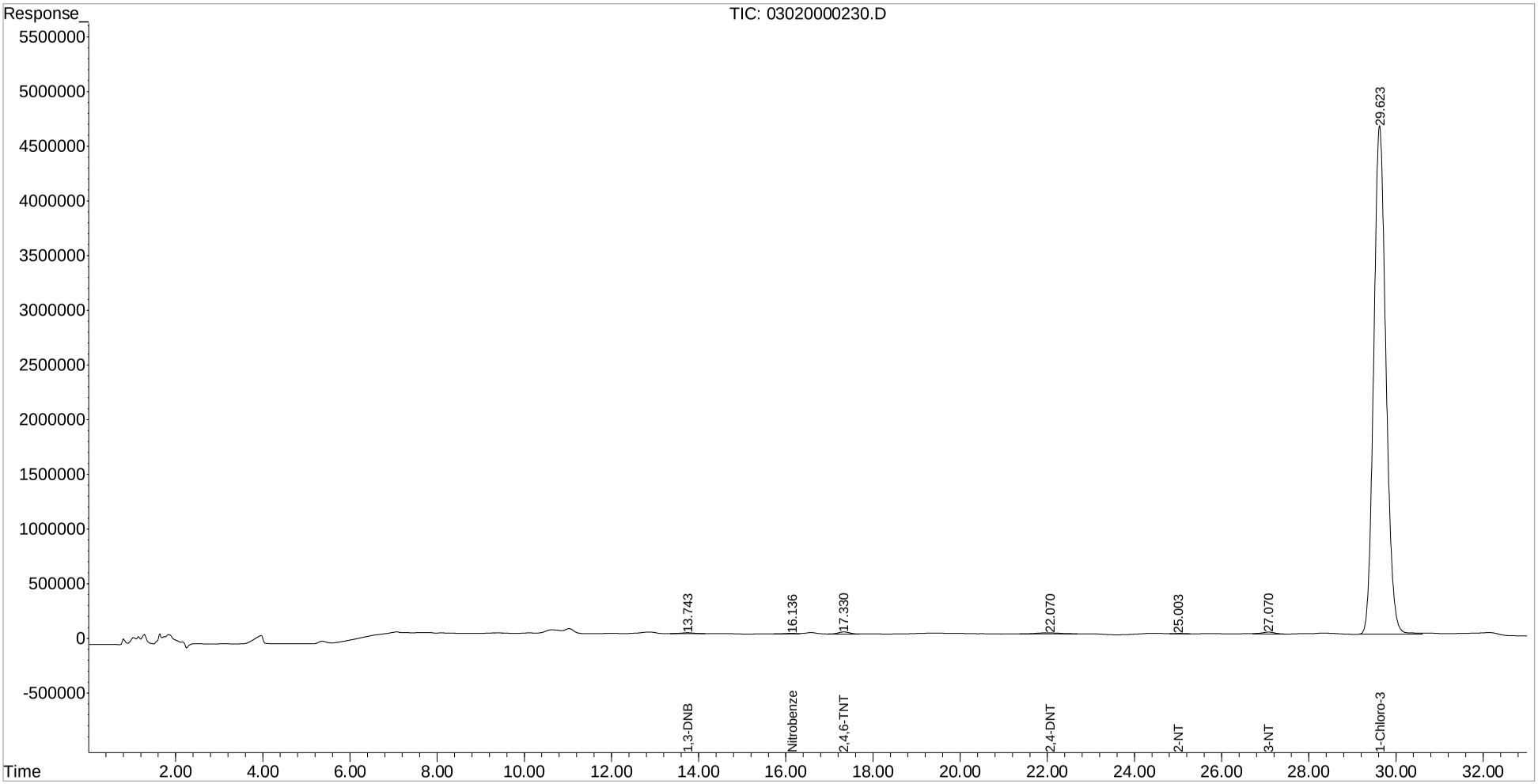
Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000230.D Vial: 24
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 05:30:47 Operator: BR
Sample : K1701351-001 DUP Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 10:52:45 2017
Quant Results File: 120716_8330B@254.RES

11/01/2018

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



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012359

(b) (6)

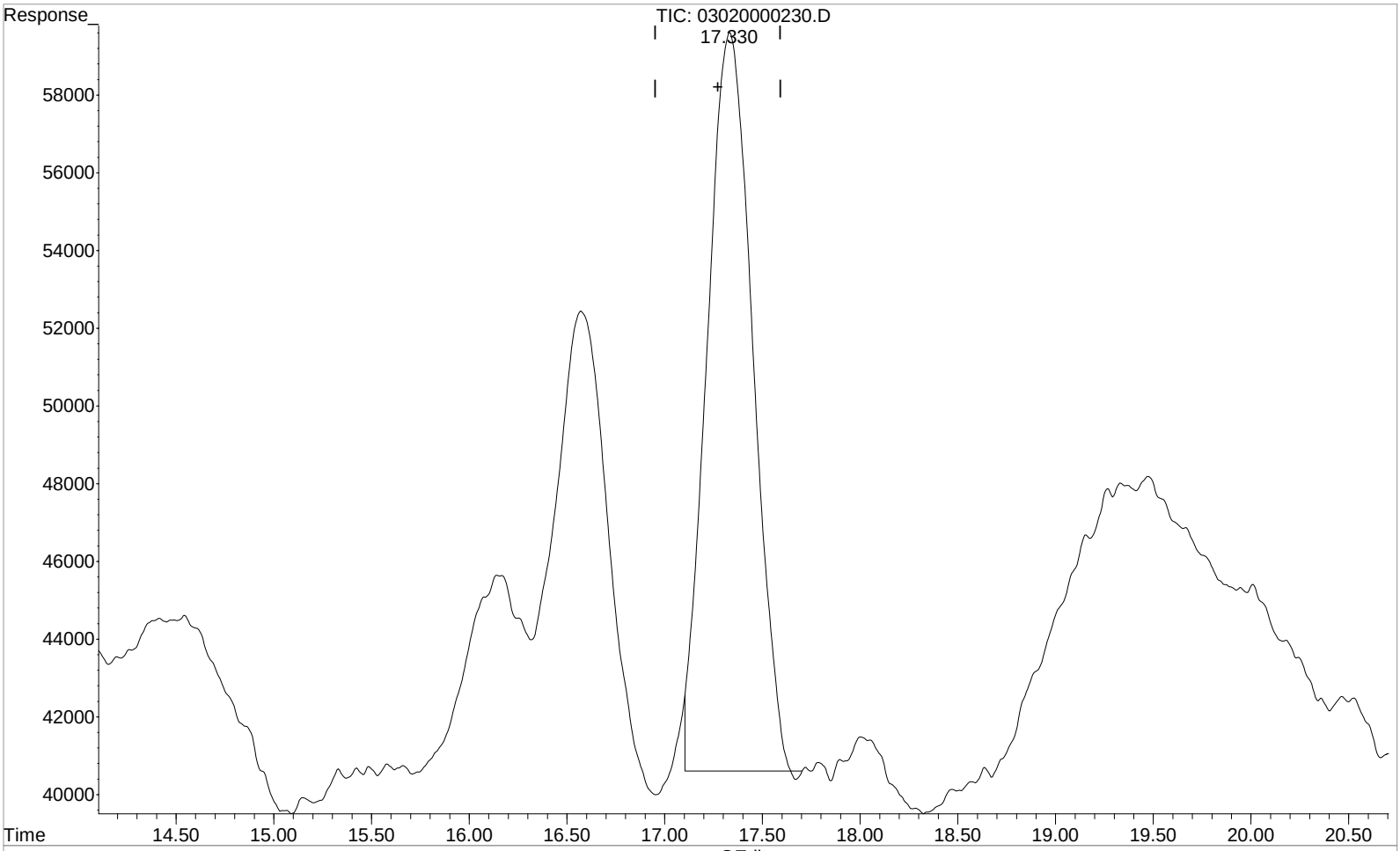
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000230.D Vial: 24
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 05:30:47 Operator: BR
Sample : K1701351-001 DUP Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 16:14:18 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(10) 2,4,6-TNT (T)

17.330min 7.443 ug/L

response 310018

Manual Integration:

Before

03/10/17

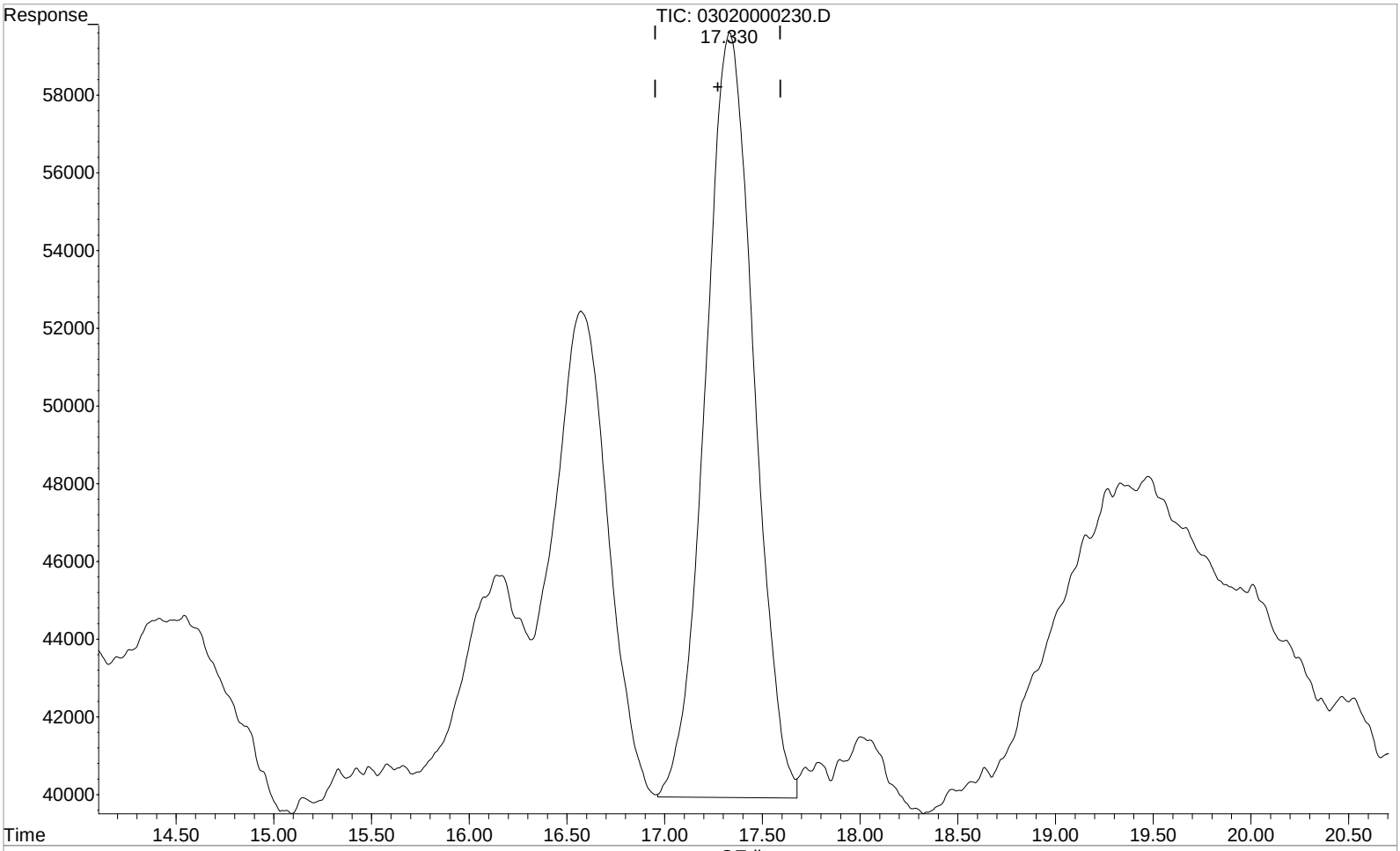
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000230.D Vial: 24
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 05:30:47 Operator: BR
Sample : K1701351-001 DUP Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 16:14:18 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(10) 2,4,6-TNT (T)

17.330min 8.217 ug/L m

response 342256

Manual Integration:

After

BLC

03/10/17

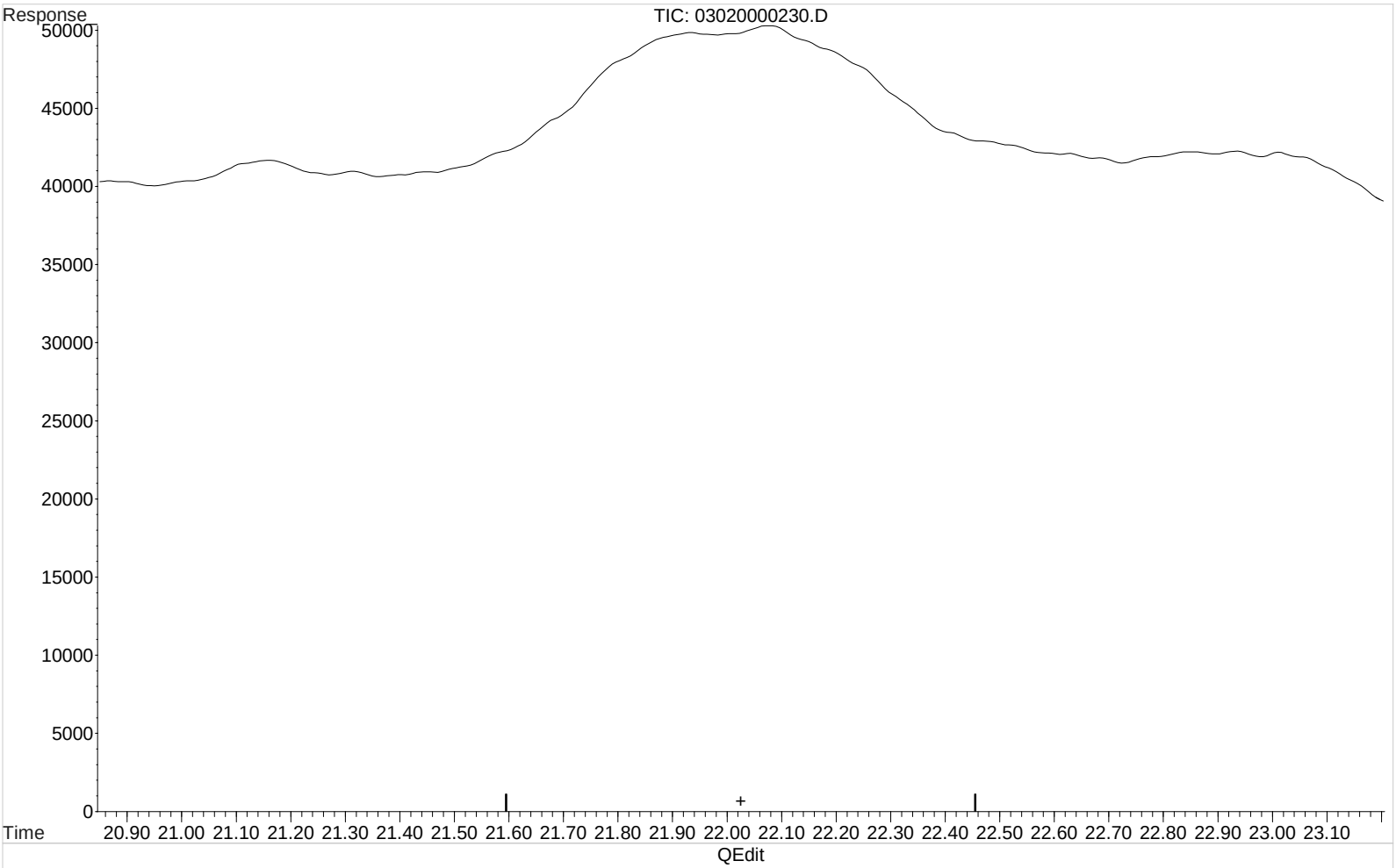
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000230.D Vial: 24
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 05:30:47 Operator: BR
Sample : K1701351-001 DUP Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:19 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.025min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

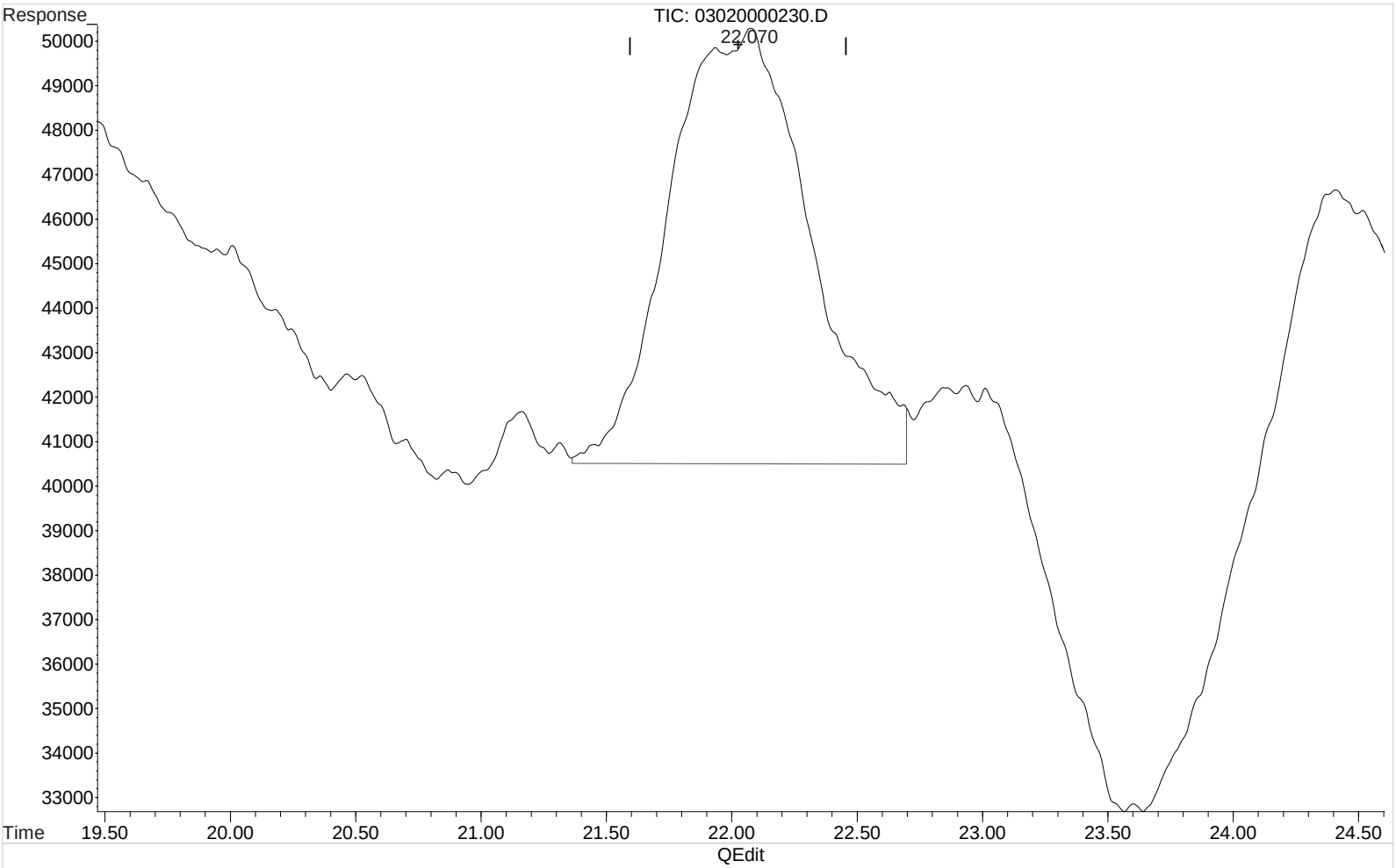
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000230.D Vial: 24
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 05:30:47 Operator: BR
Sample : K1701351-001 DUP Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:19 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.070min 6.433 ug/L m

response 381077

Manual Integration:

After

BLC

03/08/17

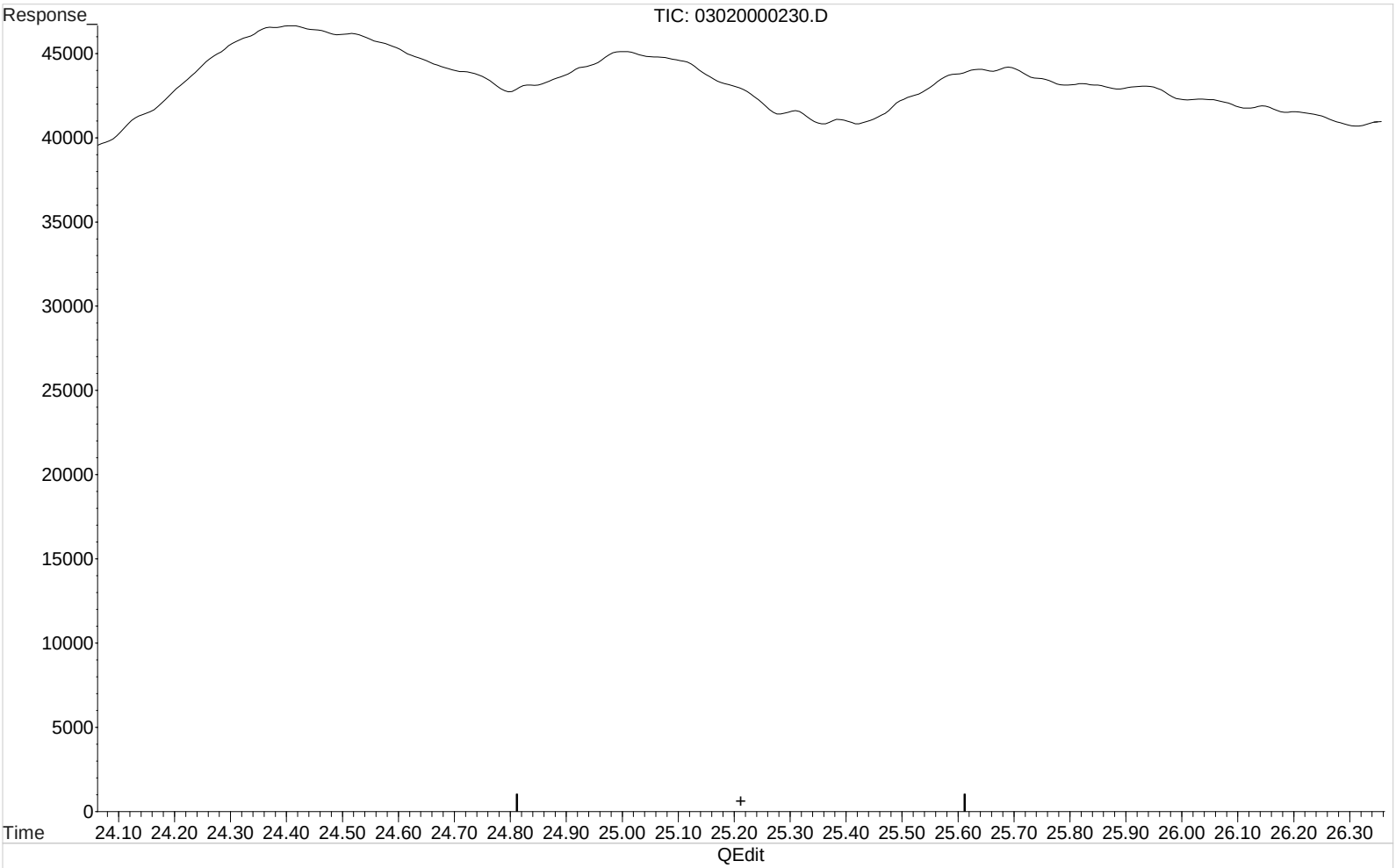
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000230.D Vial: 24
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 05:30:47 Operator: BR
Sample : K1701351-001 DUP Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:19 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.212min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

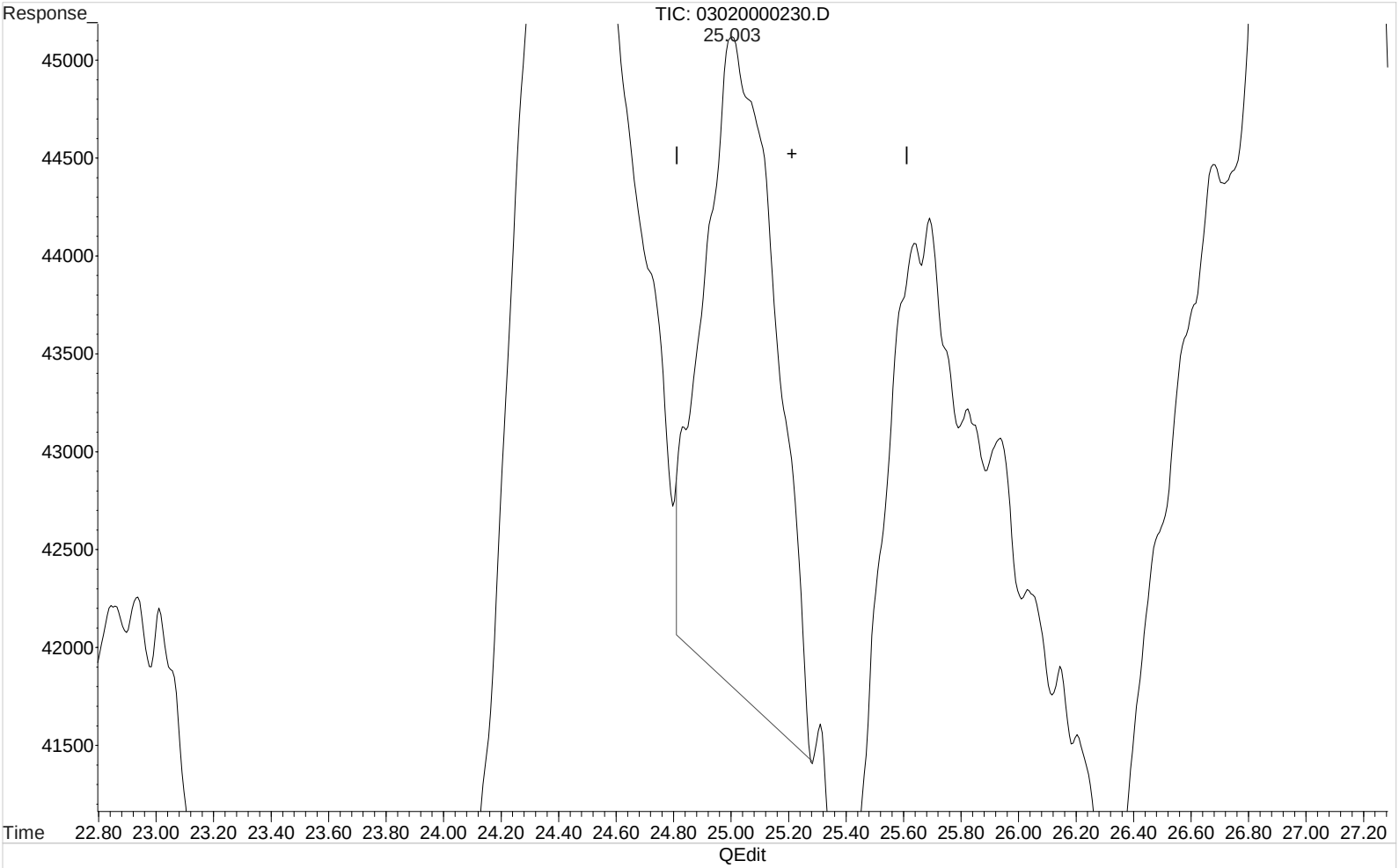
(+) = Expected Retention Time

(b) (6) /14/17 /29/17

Data File : J:\LC10\Data\030317_8330_254\03020000230.D Vial: 24
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 05:30:47 Operator: BR
Sample : K1701351-001 DUP Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:19 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.003min 3.233 ug/L m

response 58082

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

(b) (6)

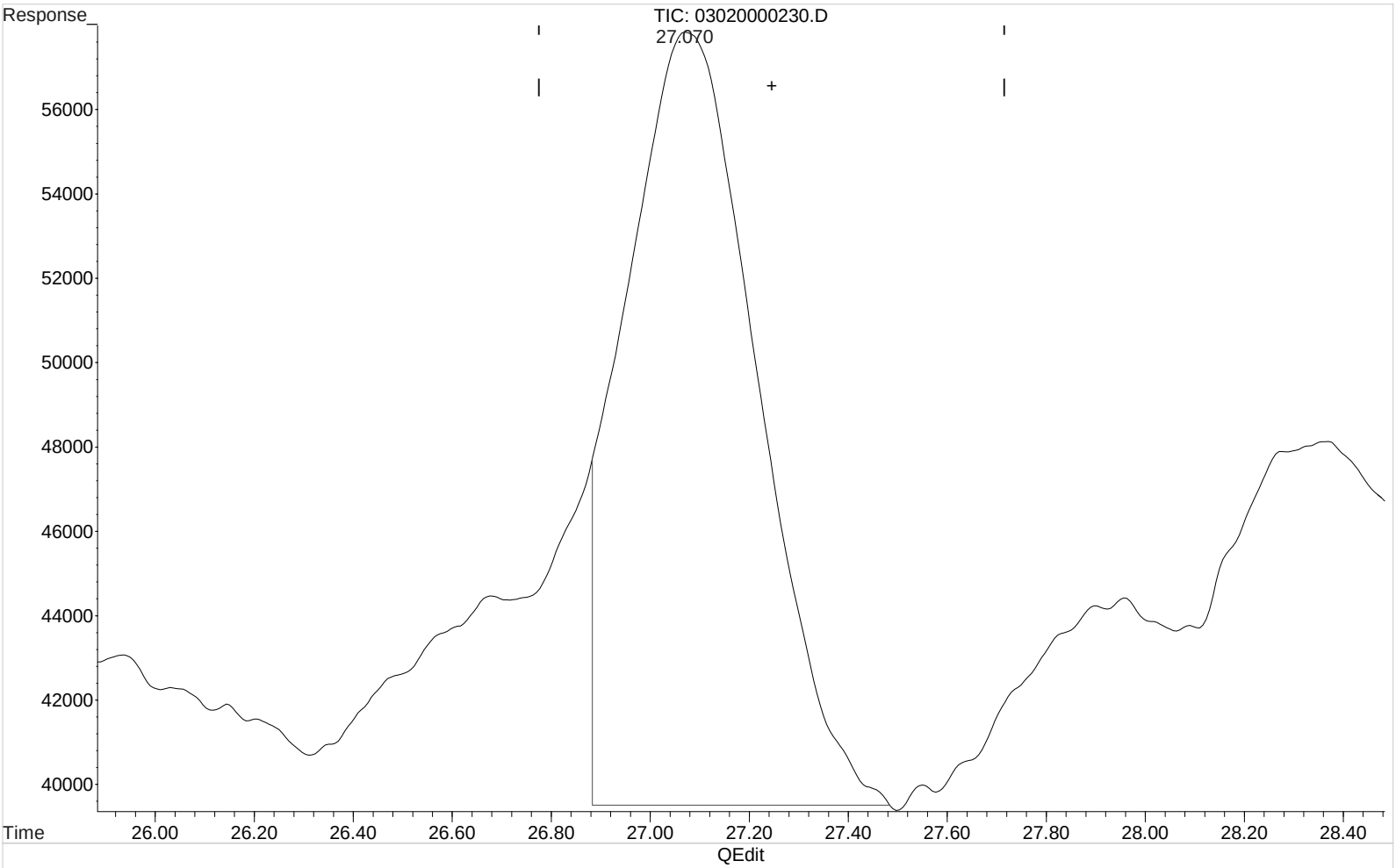
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000230.D Vial: 24
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 05:30:47 Operator: BR
Sample : K1701351-001 DUP Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:19 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(17) 3-NT (T)

27.070min 16.854 ug/L

response 339370

Manual Integration:

Before

03/08/17

(+) = Expected Retention Time

(b) (6)

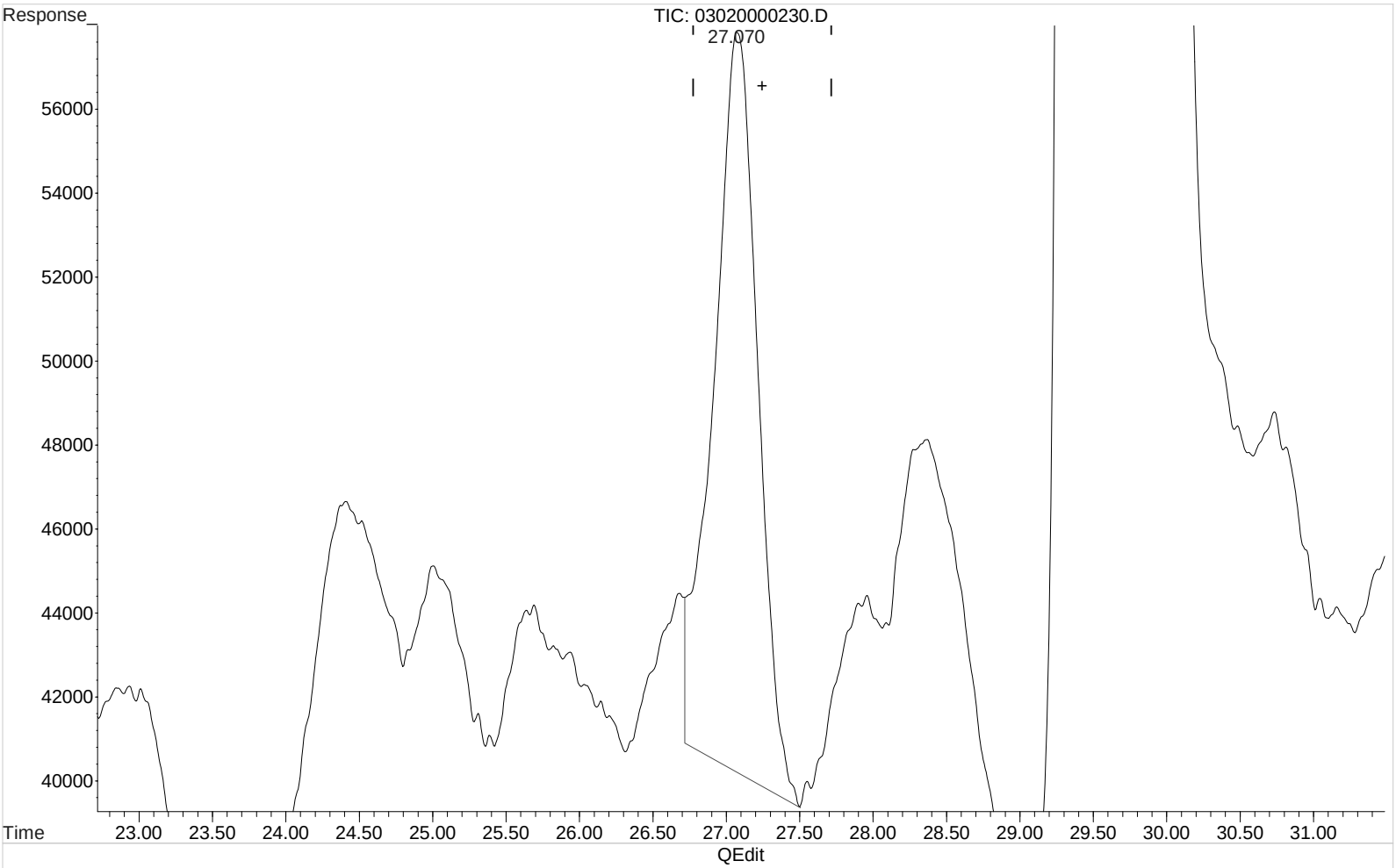
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000230.D Vial: 24
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 05:30:47 Operator: BR
Sample : K1701351-001 DUP Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:19 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.070min 18.389 ug/L m

response 370290

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

(b) (6)

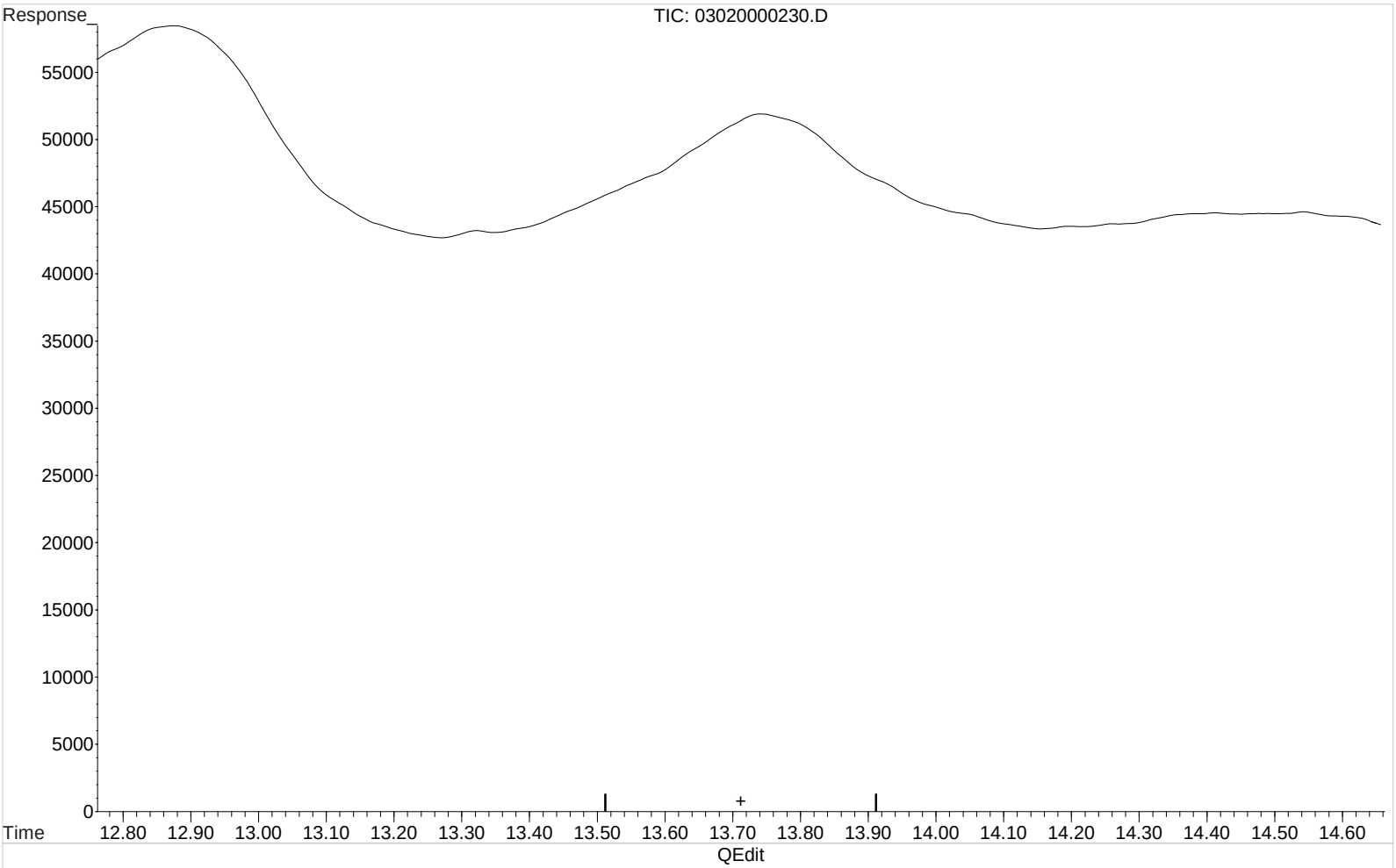
3/14/17

3/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000230.D Vial: 24
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 05:30:47 Operator: BR
Sample : K1701351-001 DUP Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:19 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(6) 1,3-DNB (T)

13.712min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

(+) = Expected Retention Time

(b) (6)

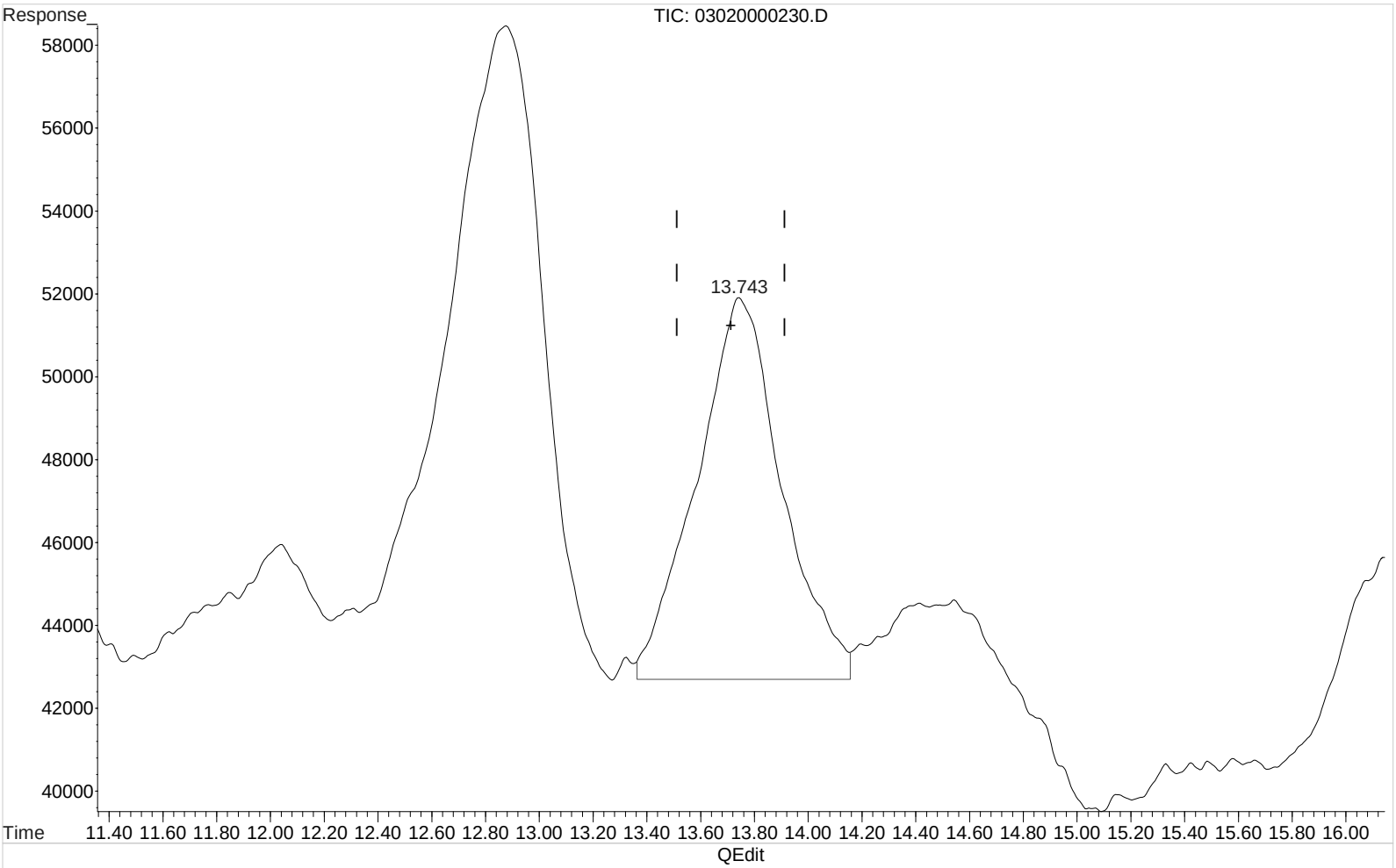
3/14/17

3/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000230.D Vial: 24
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 05:30:47 Operator: BR
Sample : K1701351-001 DUP Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:19 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(6) 1,3-DNB (T)

13.743min 3.355 ug/L m

response 202239

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

(b) (6)

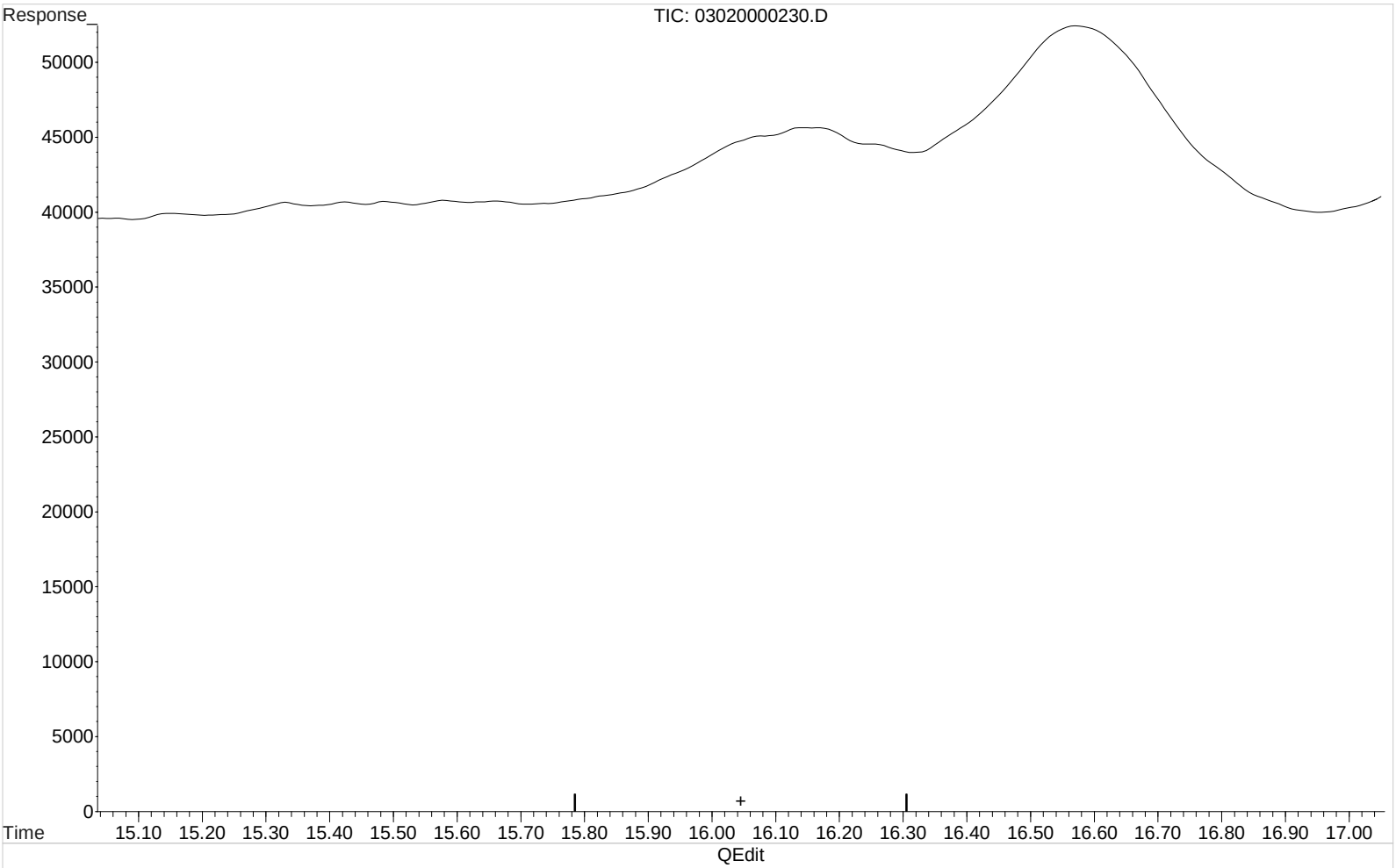
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000230.D Vial: 24
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 05:30:47 Operator: BR
Sample : K1701351-001 DUP Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:19 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(9) Nitrobenzene (T)

16.045min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

(+) = Expected Retention Time

(b) (6)

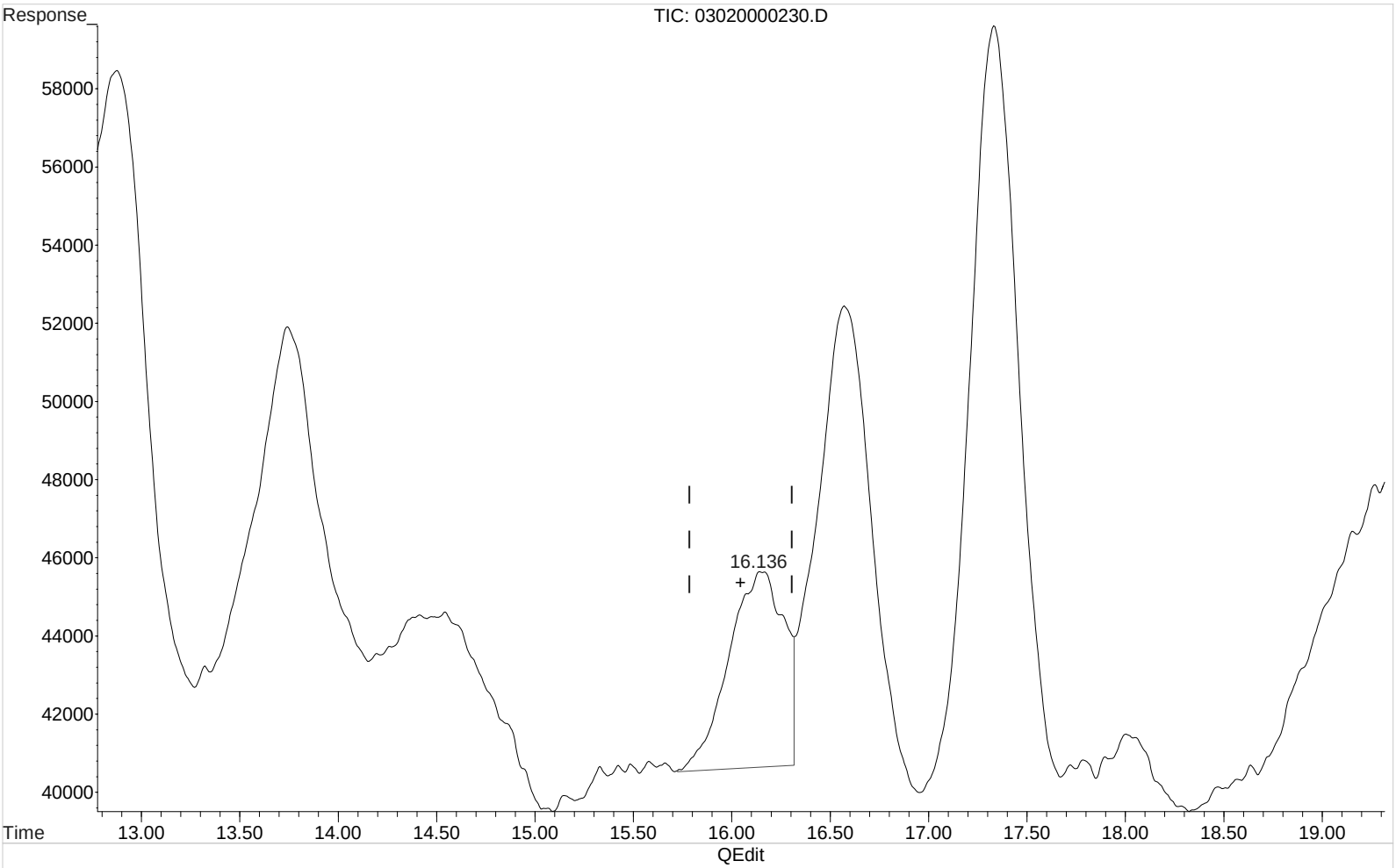
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000230.D Vial: 24
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 05:30:47 Operator: BR
Sample : K1701351-001 DUP Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:19 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(9) Nitrobenzene (T)

16.136min 2.562 ug/L m

response 98936

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000230.
Lab ID: KWG1701417-1 -- K1701351-001DUP
RunType: DUP
Matrix: SOIL

Date Acquired: 03/03/2017 05:30
Date Quantitated: 03/06/2017 15:00
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000230.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 05:30	**Quant Date:**	03/06/2017 15:00	**Vial:**	24
Run Type:	DUP	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701417-1			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**		**Receive Date:**	03/01/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587777	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_210\03020000205.D	**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.62	0.01	239842225	4,218	84	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.52	-0.01	1666202	79.93	0.0645	J	
Pentaerythritol Tetranitrate	27.84	0.21	700511	39.81	0.12	U	

Prep Amount:	10.004 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99.1 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000230.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 05:30	**Quant Date:**	03/06/2017 15:00	**Vial:**	24
Run Type:	DUP	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701417-1			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**		**Receive Date:**	03/01/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587777	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:	J:\LC10\DATA\030317_8330_210\03020000205.D	**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.62	0.01	239842225	4,218	84	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.52	-0.01	1666202	79.93	0.0645	J	<LOD
Pentaerythritol Tetranitrate	27.84	0.21	700511	39.81	0.12	U	

Prep Amount:	10.004 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99.1 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000230.D Vial: 24
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 05:30:47 Operator: BR
Sample : K1701351-001 DUP Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:00:34 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
3) S	1-Chloro-3-Nitrobenzene	29.623	239842225	4217.982	ug/L
Target Compounds					
1) T	Nitroglycerin	16.516	1666202	79.926	ug/L
2) T	PETN	27.843	700511	39.812	ug/L

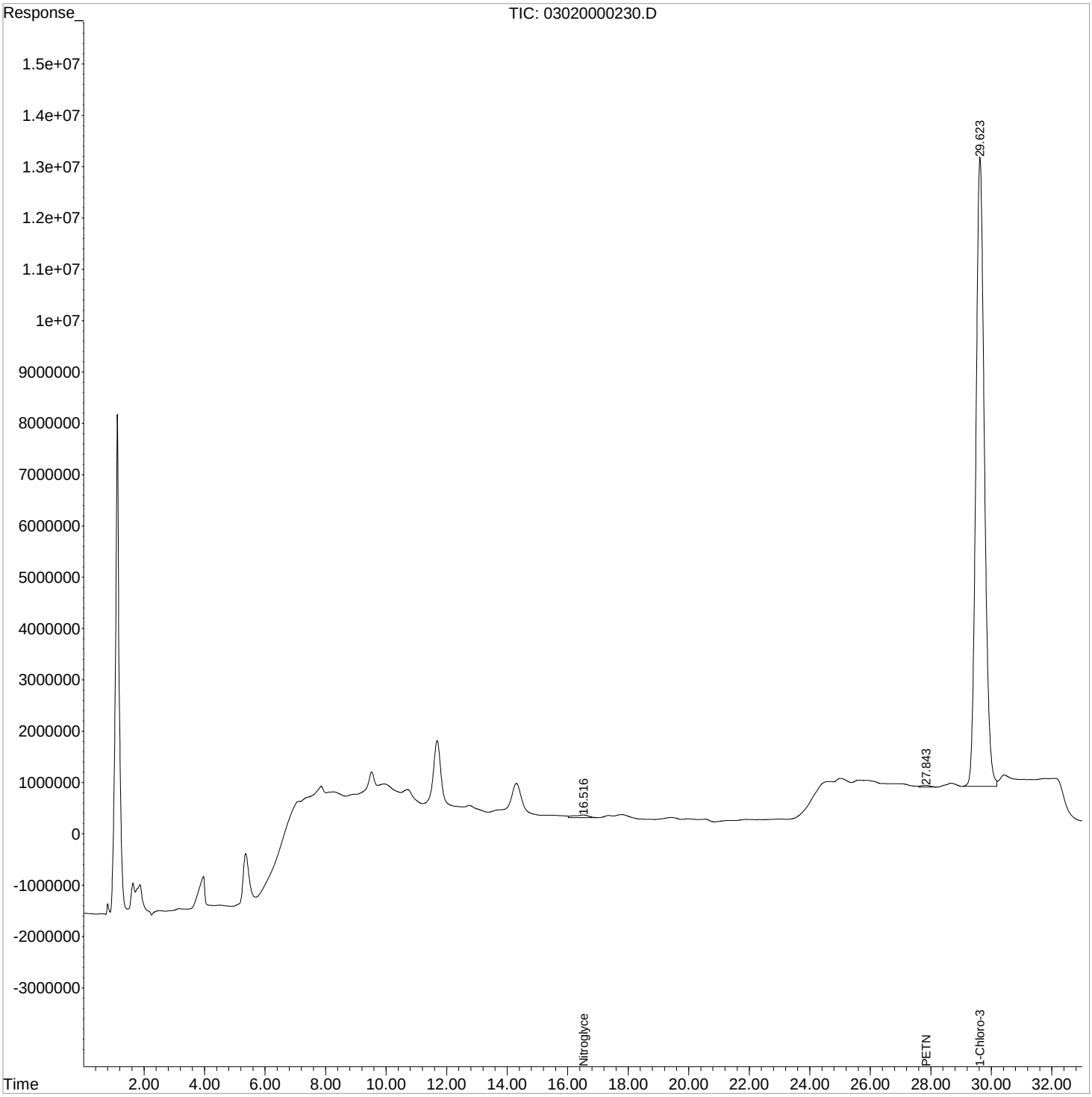
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000230.D Vial: 24
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 05:30:47 Operator: BR
Sample : K1701351-001 DUP Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:00:34 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000231.
Lab ID: KWG1701417-2 -- K1701351-001TRP
RunType: TRP
Matrix: SOIL

Date Acquired: 03/03/2017 06:06
Date Quantitated: 03/10/2017 09:55
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000231.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 06:06	**Quant Date:**	03/10/2017 09:55	**Vial:**	25
Run Type:	TRP	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701417-2			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**		**Receive Date:**	03/01/2017

Analysis Lot:	KWG1701858	**Prep Lot:**	KWG1701417	**Report Group:**	
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587778	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_254\03020000205.D	**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.63	0.02	89578688	4,145	83	34-135	OK	

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene	4.32	4.32	79082				
HMX			0		0.0065	U	
2,4-Diamino-6-nitrotoluene			0				
RDX			0		0.050	U	
1,3,5-Trinitrobenzene			0		0.028	U	
1,3-Dinitrobenzene	13.76		988415**m**	16.40	0.0132	J	
3,5-Dinitroaniline			0		0.063	U	
TETRYL			0		0.042	U	
Nitrobenzene	16.18	0.07	104281**m**	2.70	0.0045	U	
2,4,6-Trinitrotoluene	17.35	0.02	38206**m**	0.9170	0.019	U	
4-Amino-2,6-dinitrotoluene			0		0.0052	U	
2-Amino-4,6-dinitrotoluene			0		0.0076	U	
2,6-Dinitrotoluene			0		0.0052	U	
2,4-Dinitrotoluene	21.95	-0.15	230064**m**	3.88	0.042	U	
2-Nitrotoluene			0		0.0072	U	
4-Nitrotoluene			0		0.019	U	
3-Nitrotoluene	27.13	-0.16	340754**m**	16.92	0.019	U	

Prep Amount:	10.047 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99.1 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000231.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 06:06	**Quant Date:**	03/10/2017 09:55	**Vial:**	25
Run Type:	TRP	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701417-2			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**		**Receive Date:**	03/01/2017

Analysis Lot:	KWG1701858	**Prep Lot:**	KWG1701417	**Report Group:**	
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587778	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:	J:\LC10\DATA\030317_8330_254\03020000205.D	**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.63	0.02	89578688	4,145	83	34-135	OK	

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene	4.32	4.32	79082				
HMX			0		0.0065	U	
2,4-Diamino-6-nitrotoluene			0				
RDX			0		0.050	U	
1,3,5-Trinitrobenzene			0		0.028	U	
1,3-Dinitrobenzene	13.76		988415**m**	16.40	0.0132	J	<LOD
3,5-Dinitroaniline			0		0.063	U	
TETRYL			0		0.042	U	
Nitrobenzene	16.18	0.07	104281**m**	2.70	0.0045	U	
2,4,6-Trinitrotoluene	17.35	0.02	38206**m**	0.9170	0.019	U	
4-Amino-2,6-dinitrotoluene			0		0.0052	U	
2-Amino-4,6-dinitrotoluene			0		0.0076	U	
2,6-Dinitrotoluene			0		0.0052	U	
2,4-Dinitrotoluene	21.95	-0.15	230064**m**	3.88	0.042	U	
2-Nitrotoluene			0		0.0072	U	
4-Nitrotoluene			0		0.019	U	
3-Nitrotoluene	27.13	-0.16	340754**m**	16.92	0.019	U	

Prep Amount:	10.047 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99.1 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000231.D Vial: 25
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 06:06:58 Operator: BR
Sample : K1701351-001 TRP Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 09:55:52 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
18) S	1-Chloro-3-Nitrobenzene	29.633	89578688	4145.401	ug/L	
	Target Compounds					
1) T	2,6-Diamino-4-nitroto...	4.320	79082	NoCal	ug/L	
2) T	HMX	0.000	0	N.D.	ug/L	
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4) T	RDX	0.000	0	N.D.	ug/L	
5) T	1,3,5-TNB	0.000	0	N.D.	ug/L	
6) T	1,3-DNB	13.760	988415	16.396	ug/L	m
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L	
8) T	Tetryl	0.000	0	N.D.	ug/L	
9) T	Nitrobenzene	16.180f	104281	2.701	ug/L	m
10) T	2,4,6-TNT	17.347	38206	0.917	ug/L	m
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L	
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L	
13) T	2,6-DNT	0.000	0	N.D.	ug/L	
14) T	2,4-DNT	21.953	230064	3.884	ug/L	m
15) T	2-NT	0.000	0	N.D.	ug/L	
16) T	4-NT	0.000	0	N.D.	ug/L	
17) T	3-NT	27.127	340754	16.923	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] (b) (6) 3/14/17 3/29/17

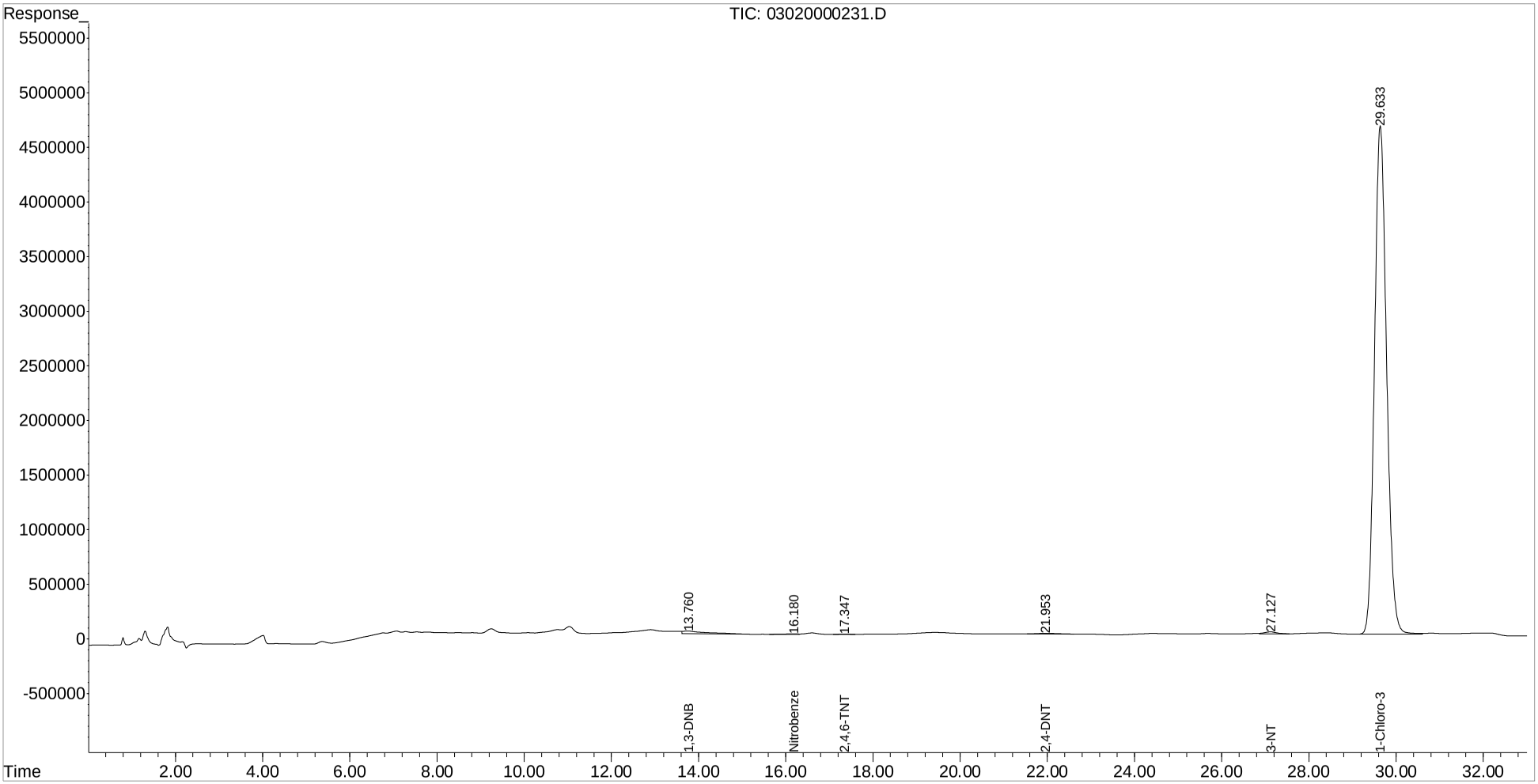
11/01/2018

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000231.D Vial: 25
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 06:06:58 Operator: BR
Sample : K1701351-001 TRP Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 09:55:52 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



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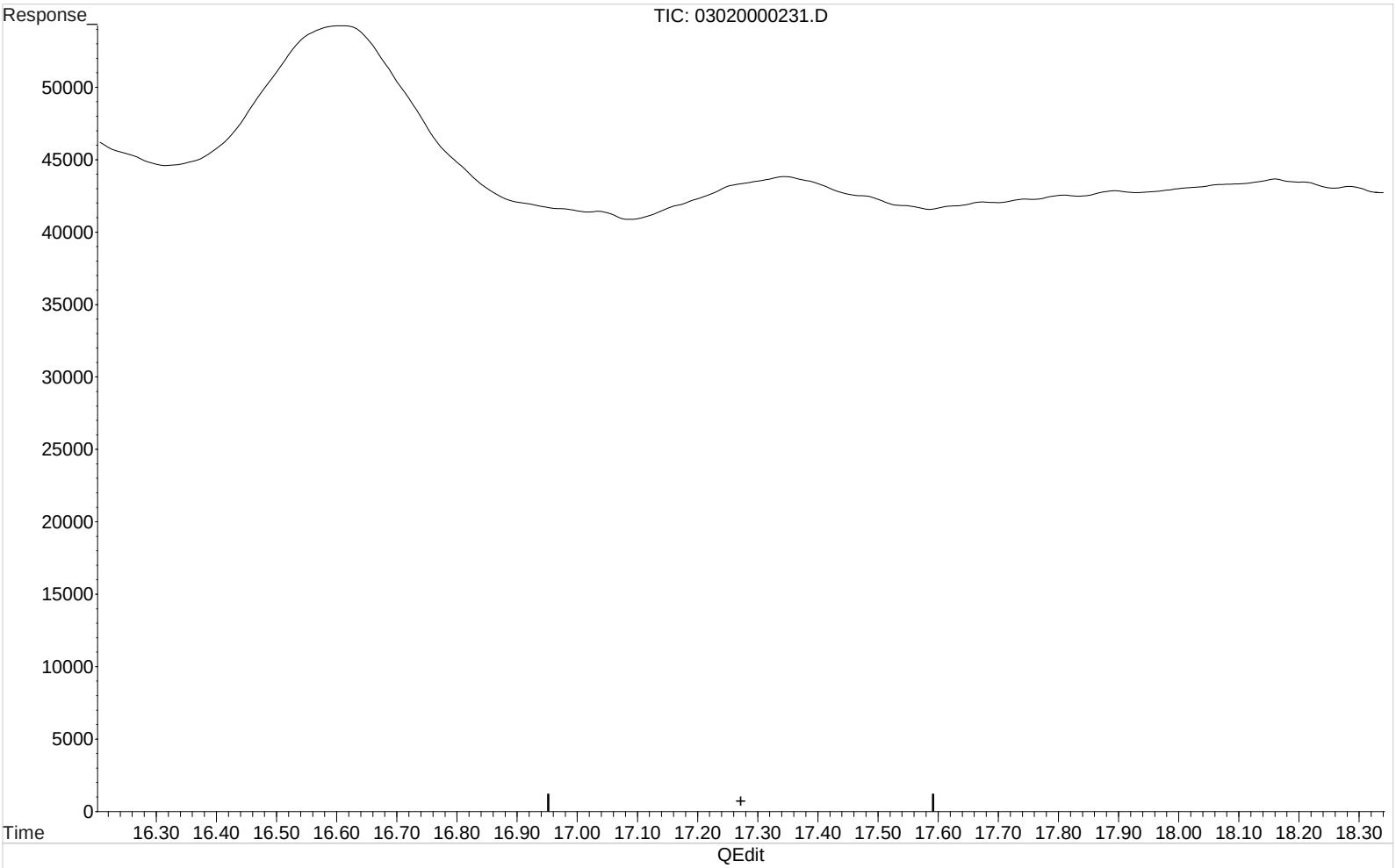
012381

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000231.D Vial: 25
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 06:06:58 Operator: BR
Sample : K1701351-001 TRP Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:21 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(10) 2,4,6-TNT (T)

17.272min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

(+) = Expected Retention Time

(b) (6)

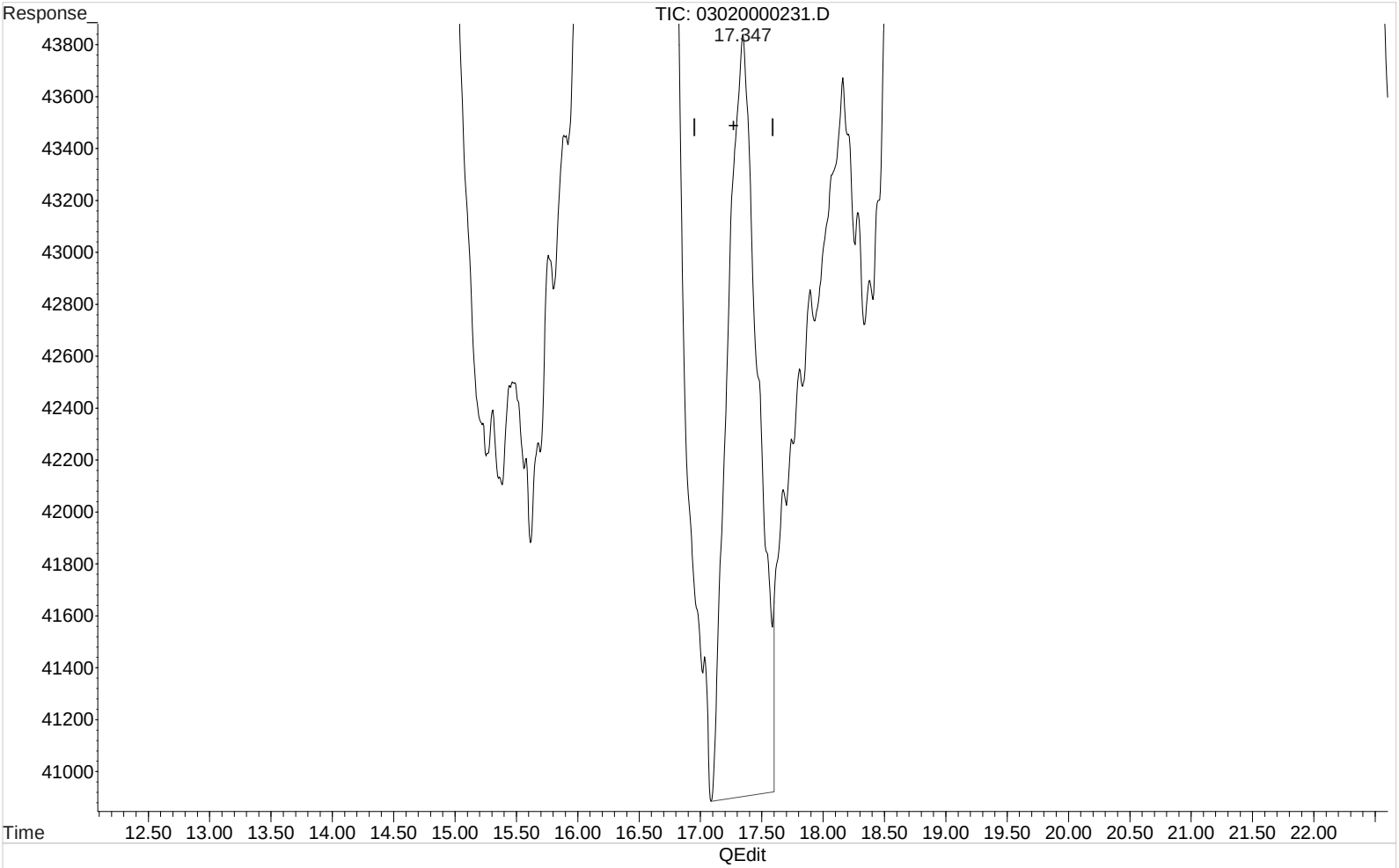
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000231.D Vial: 25
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 06:06:58 Operator: BR
Sample : K1701351-001 TRP Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:21 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(10) 2,4,6-TNT (T)

17.347min 1.200 ug/L m

response 49969

Manual Integration:

After

BLC

03/08/17

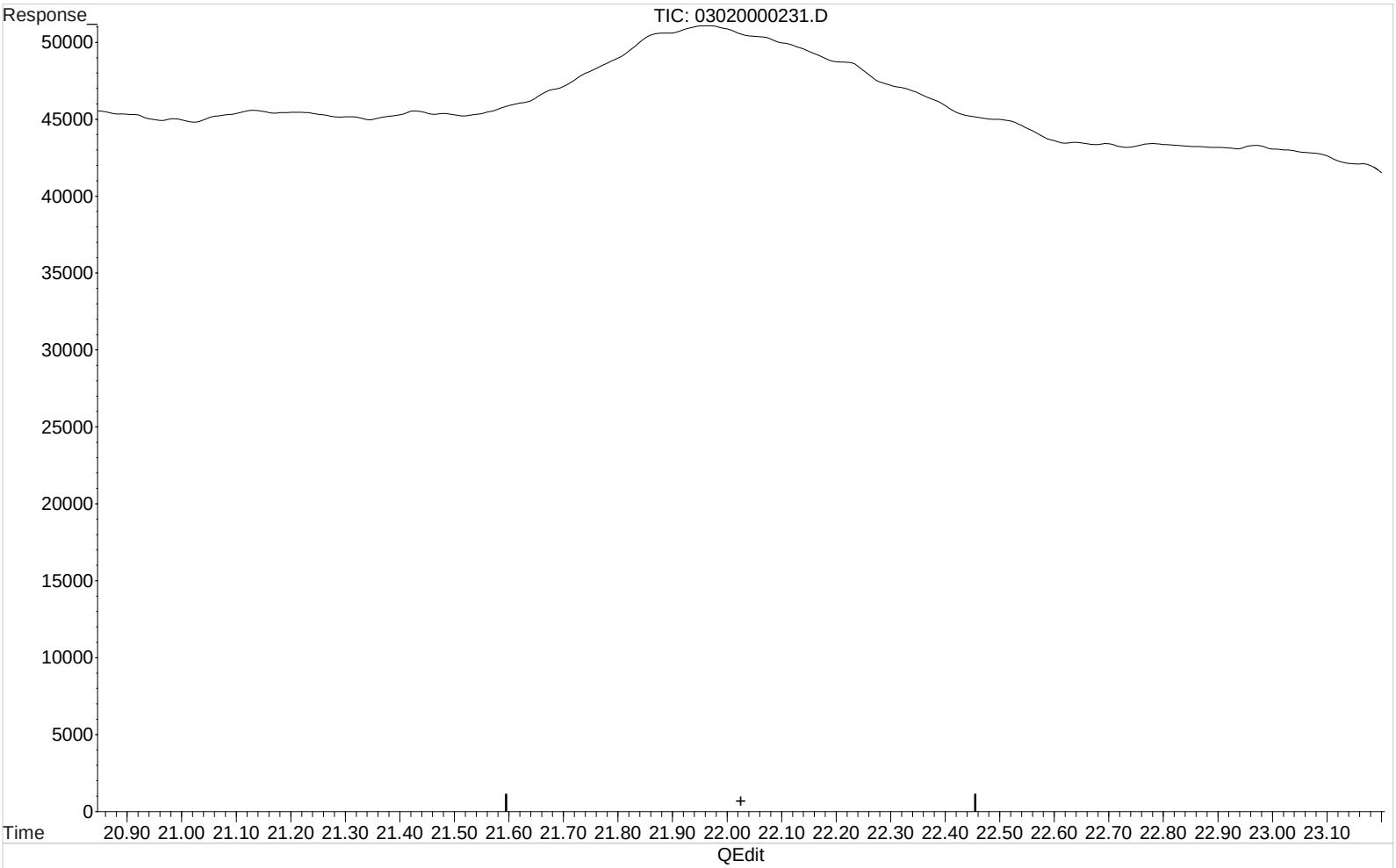
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000231.D Vial: 25
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 06:06:58 Operator: BR
Sample : K1701351-001 TRP Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:21 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(14) 2,4-DNT (T)

22.025min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

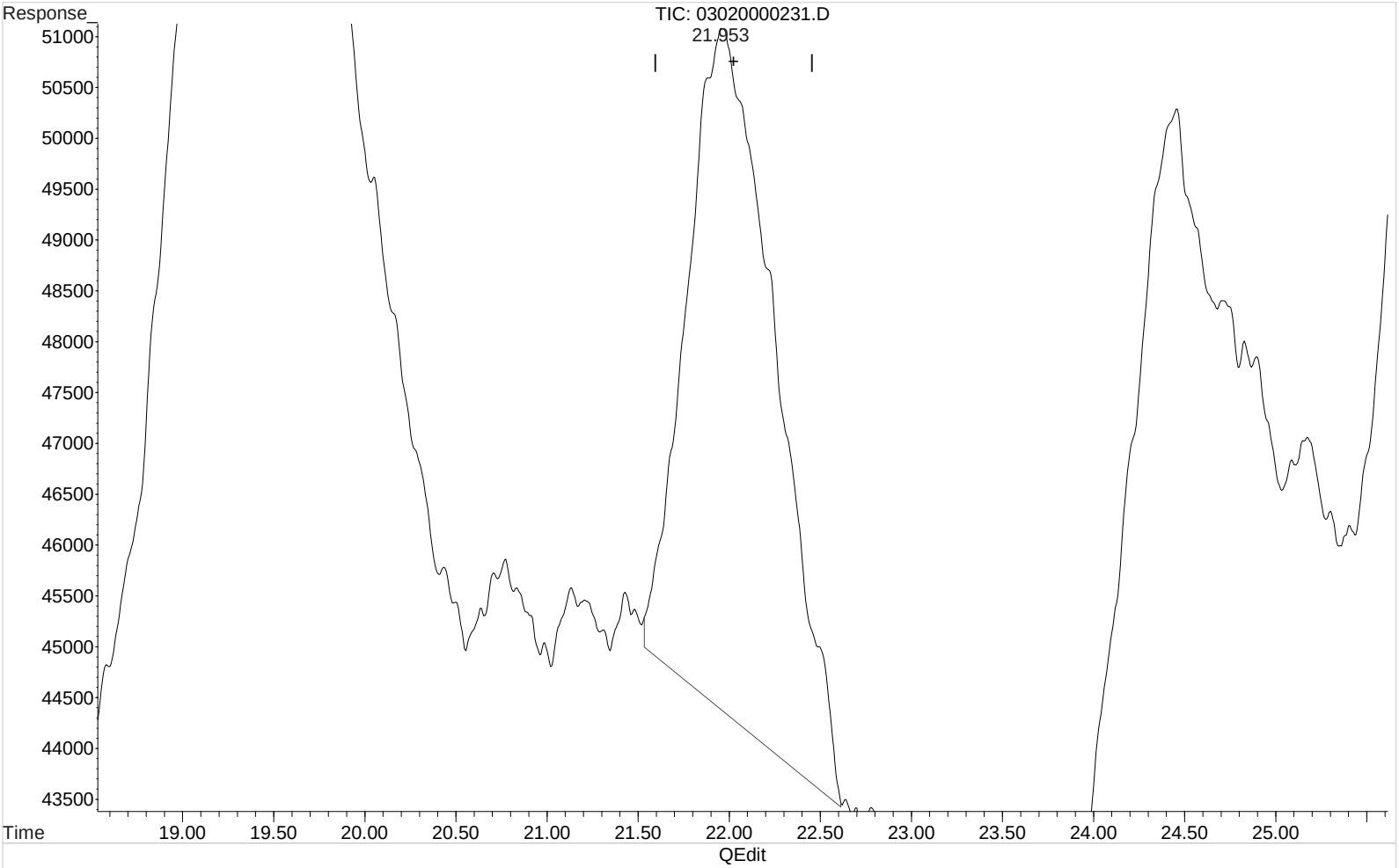
(+) = Expected Retention Time

(b) (6) /14/17 /29/17

Data File : J:\LC10\Data\030317_8330_254\03020000231.D Vial: 25
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 06:06:58 Operator: BR
Sample : K1701351-001 TRP Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:21 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

21.953min 3.884 ug/L m

response 230064

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

(b) (6)

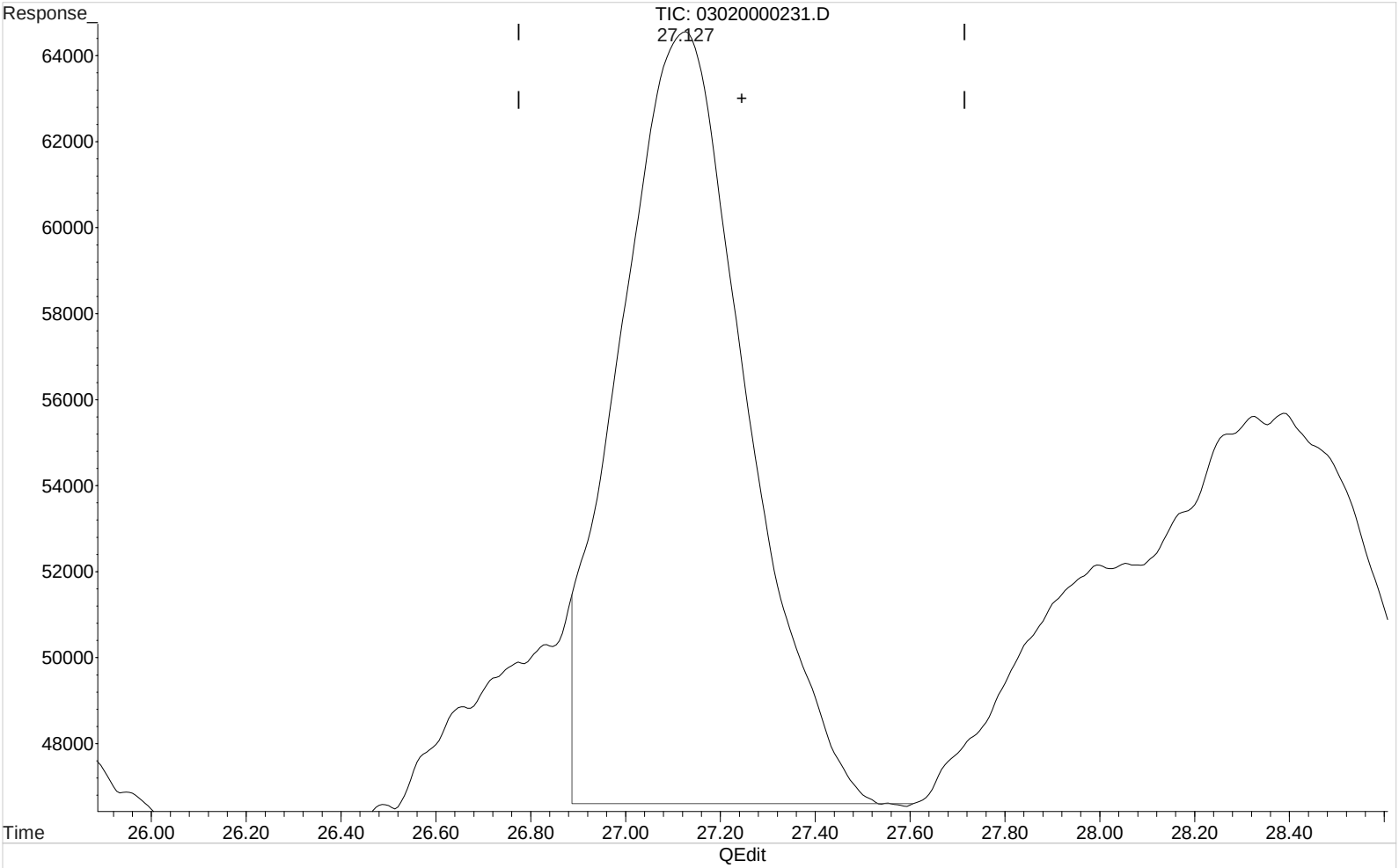
3/14/17

3/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000231.D Vial: 25
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 06:06:58 Operator: BR
Sample : K1701351-001 TRP Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:21 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.127min 16.614 ug/L

response 334535

Manual Integration:

Before

03/08/17

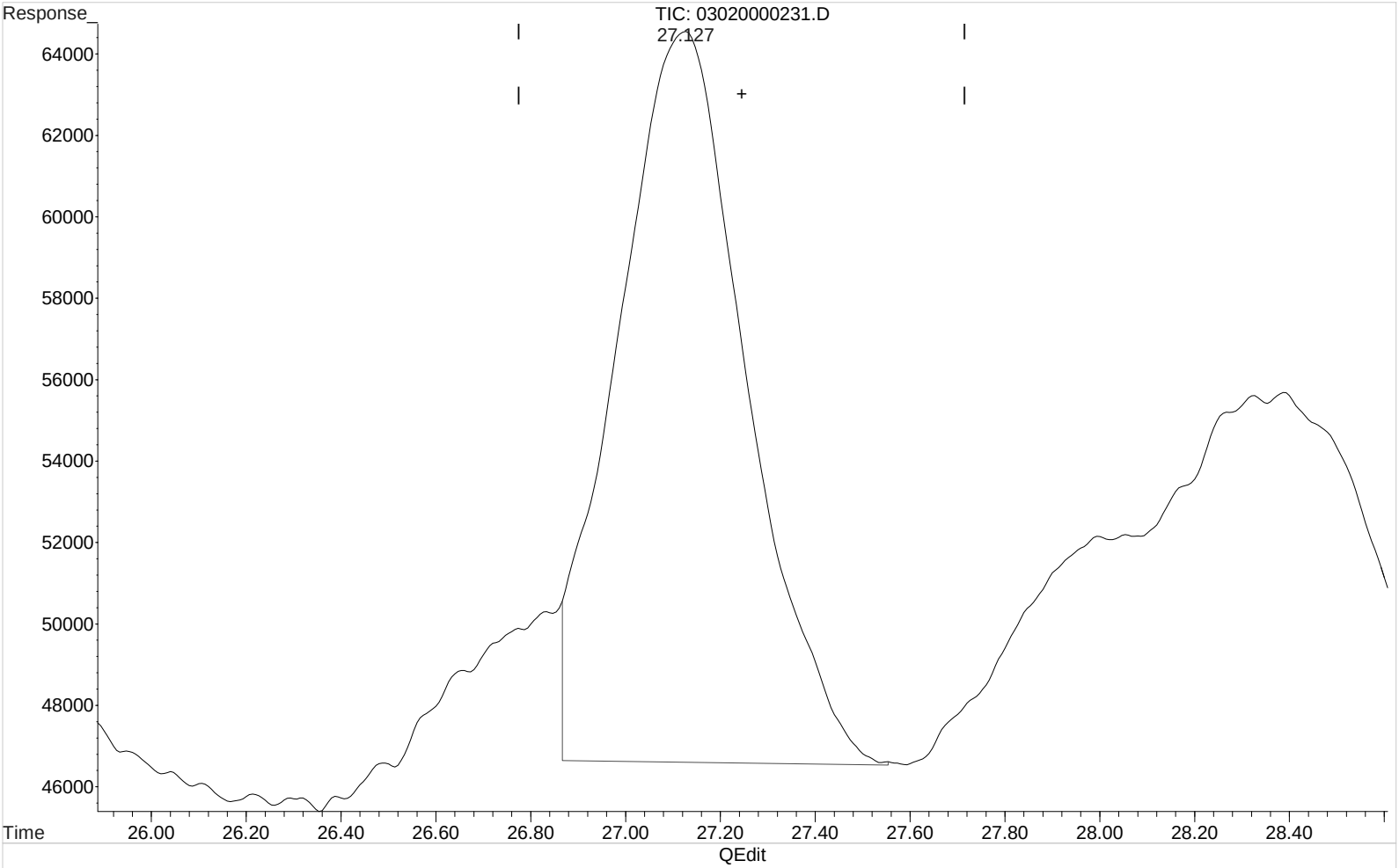
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000231.D Vial: 25
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 06:06:58 Operator: BR
Sample : K1701351-001 TRP Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:21 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(17) 3-NT (T)

27.127min 16.923 ug/L m

response 340754

Manual Integration:

After

BLC

03/08/17

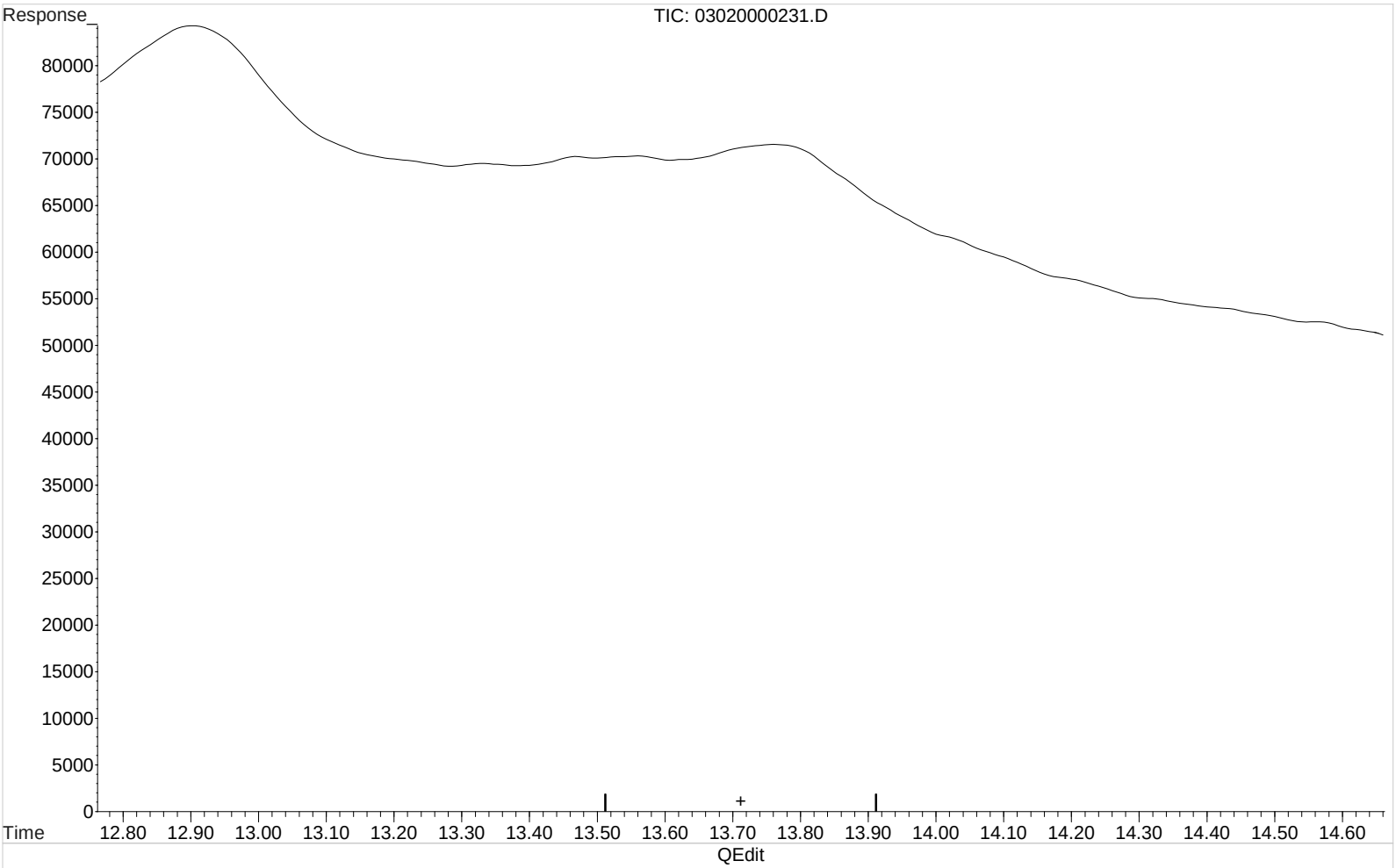
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000231.D Vial: 25
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 06:06:58 Operator: BR
Sample : K1701351-001 TRP Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:21 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(6) 1,3-DNB (T)

13.712min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

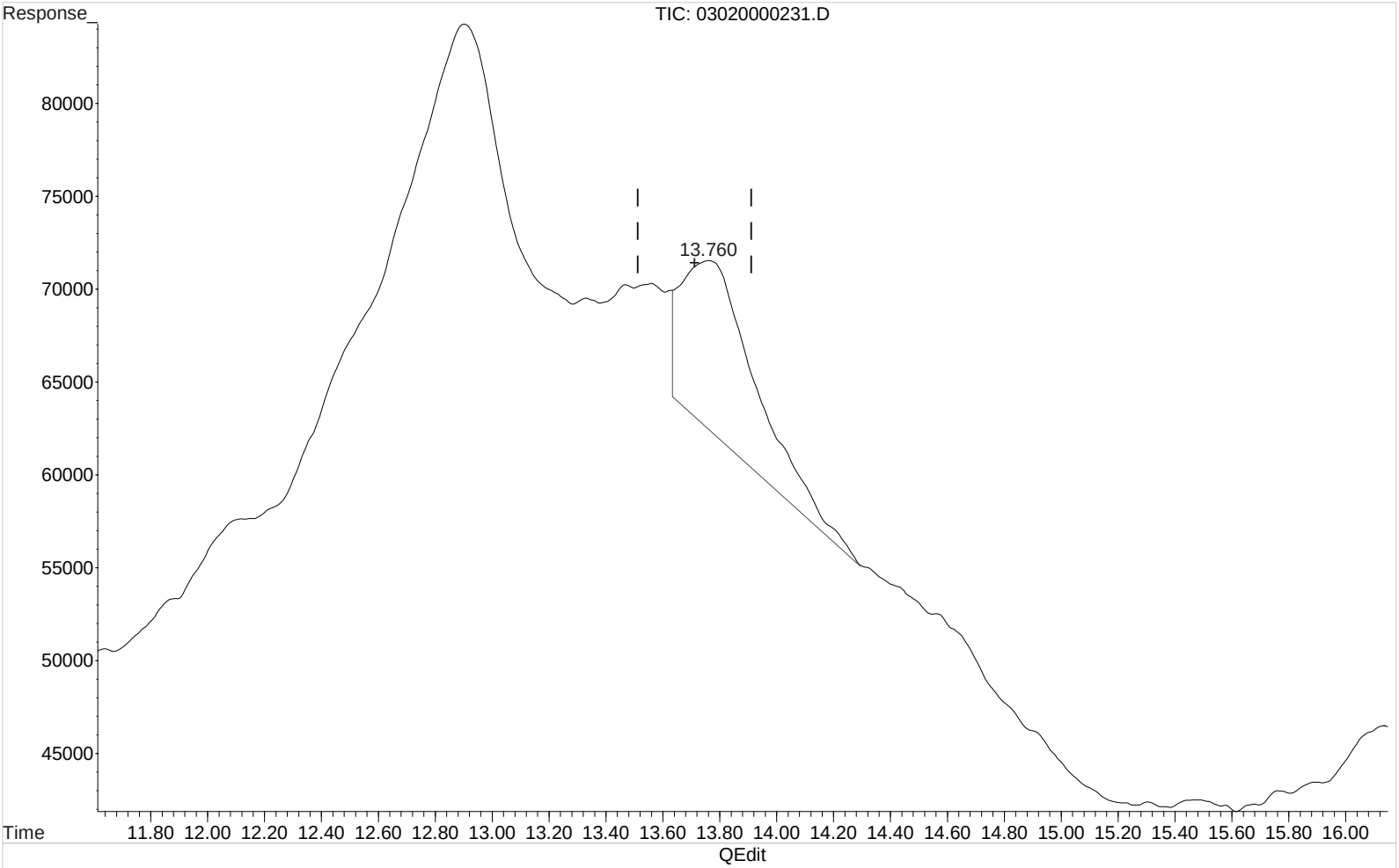
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000231.D Vial: 25
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 06:06:58 Operator: BR
Sample : K1701351-001 TRP Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:21 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(6) 1,3-DNB (T)

13.760min 2.774 ug/L m

response 167208

Manual Integration:

After

BLC

03/08/17

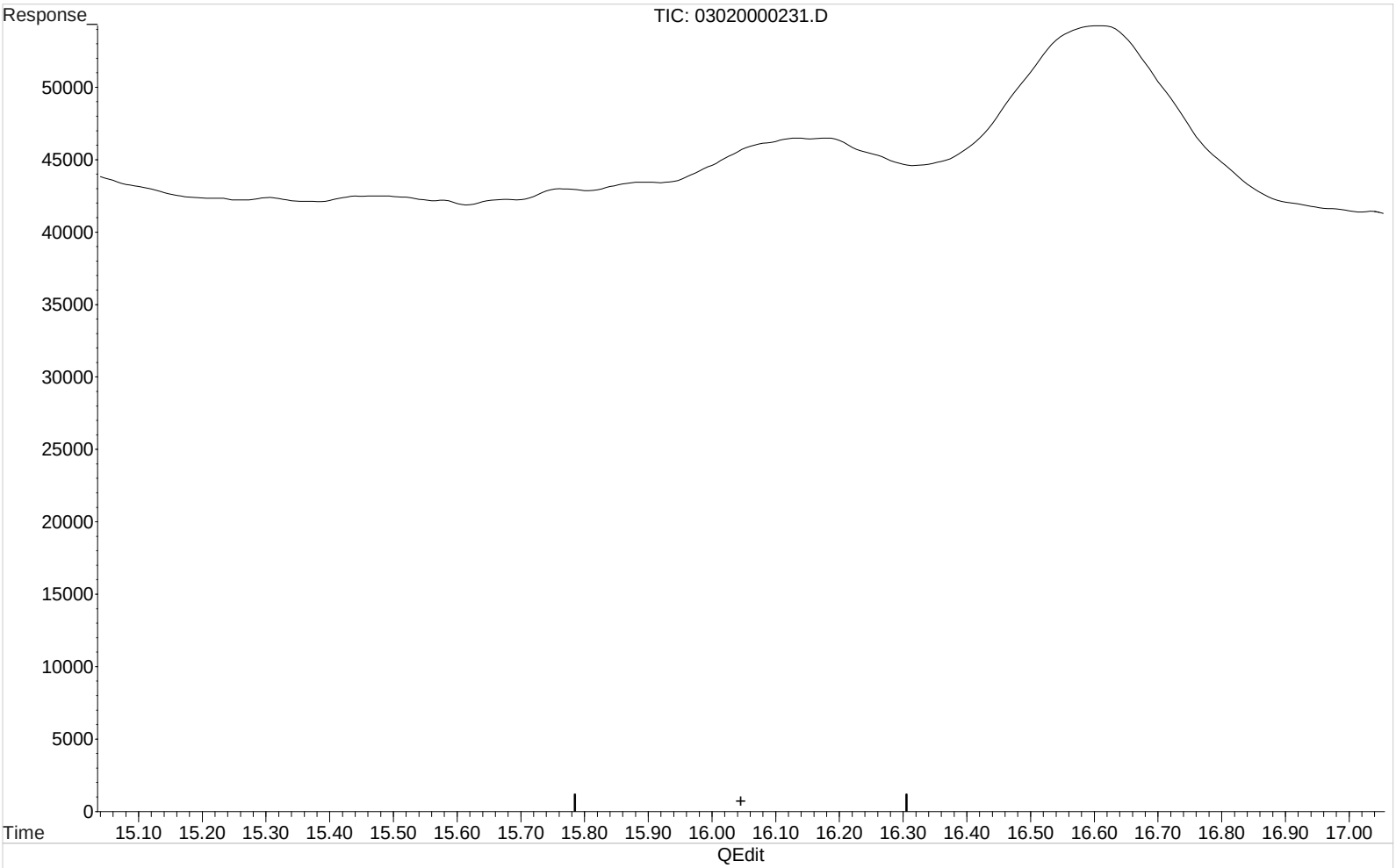
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_254\03020000231.D Vial: 25
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 06:06:58 Operator: BR
Sample : K1701351-001 TRP Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:21 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(9) Nitrobenzene (T)

16.045min 0.000 ug/L

response 0

Manual Integration:

Before

03/08/17

(+) = Expected Retention Time

(b) (6)

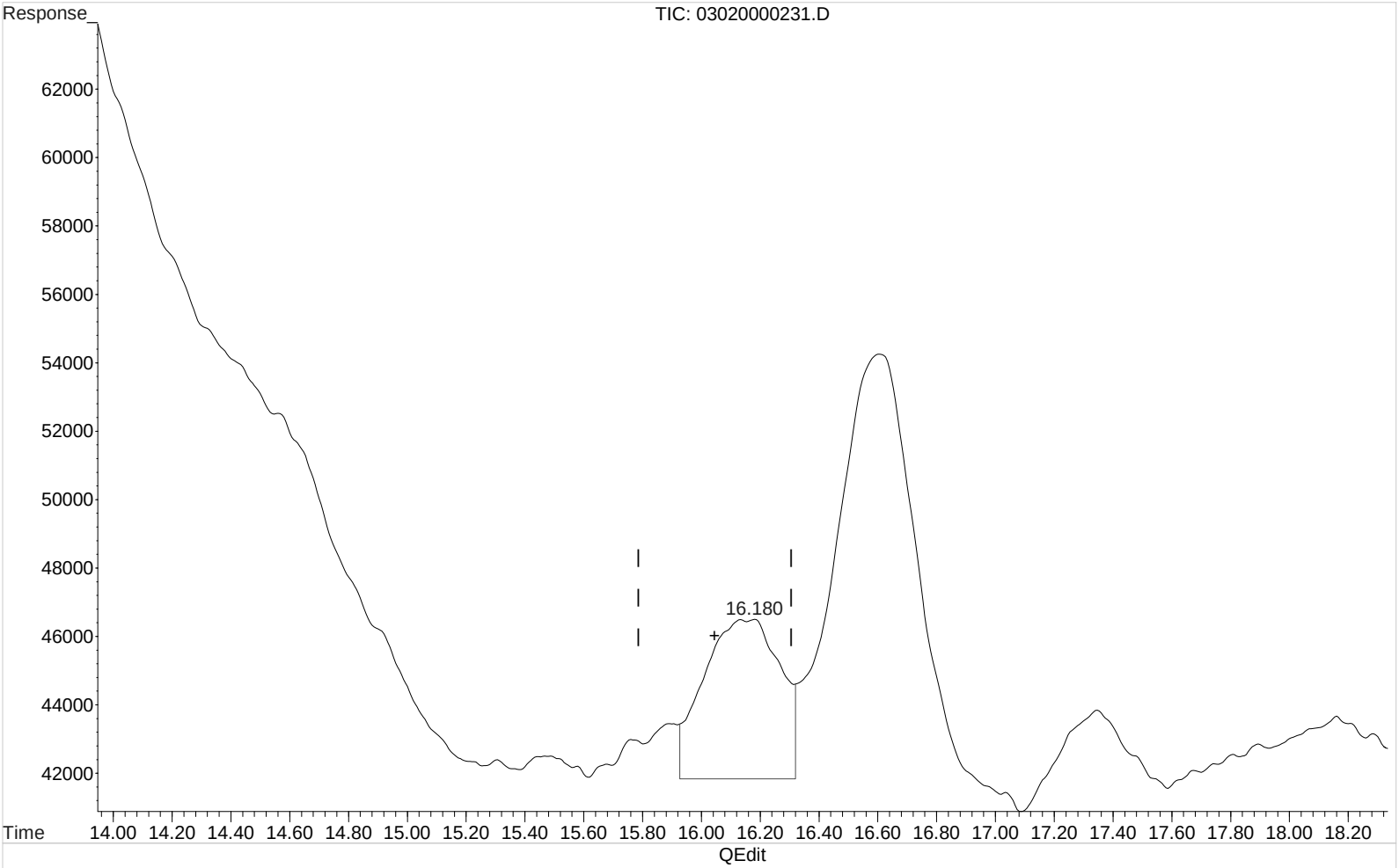
3/14/17

3/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000231.D Vial: 25
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 06:06:58 Operator: BR
Sample : K1701351-001 TRP Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:21 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.180min 2.197 ug/L m

response 84823

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000231.
Lab ID: KWG1701417-2 -- K1701351-001TRP
RunType: TRP
Matrix: SOIL

Date Acquired: 03/03/2017 06:06
Date Quantitated: 03/10/2017 16:19
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000231.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 06:06	**Quant Date:**	03/10/2017 16:19	**Vial:**	25
Run Type:	TRP	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701417-2			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**		**Receive Date:**	03/01/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587778	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_210\03020000205.D	**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.63	0.02	237184924	4,171	83	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.53		322116**m**	15.45	0.059	U	
Pentaerythritol Tetranitrate			0		0.12	U	

Prep Amount:	10.047 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99.1 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000231.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 06:06	**Quant Date:**	03/10/2017 16:19	**Vial:**	25
Run Type:	TRP	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701417-2			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**		**Receive Date:**	03/01/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587778	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:	J:\LC10\DATA\030317_8330_210\03020000205.D	**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.63	0.02	237184924	4,171	83	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Dry Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.53		322116**m**	15.45	0.059	U	
Pentaerythritol Tetranitrate			0		0.12	U	

Prep Amount:	10.047 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	99.1 %		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000231.D Vial: 25
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 06:06:58 Operator: BR
Sample : K1701351-001 TRP Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 16:19:29 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.633	237184924	4171.249	ug/L	
Target Compounds						
1) T	Nitroglycerin	16.533	322116	15.452	ug/L	m
2) T	PETN	0.000	0	N.D.	ug/L	

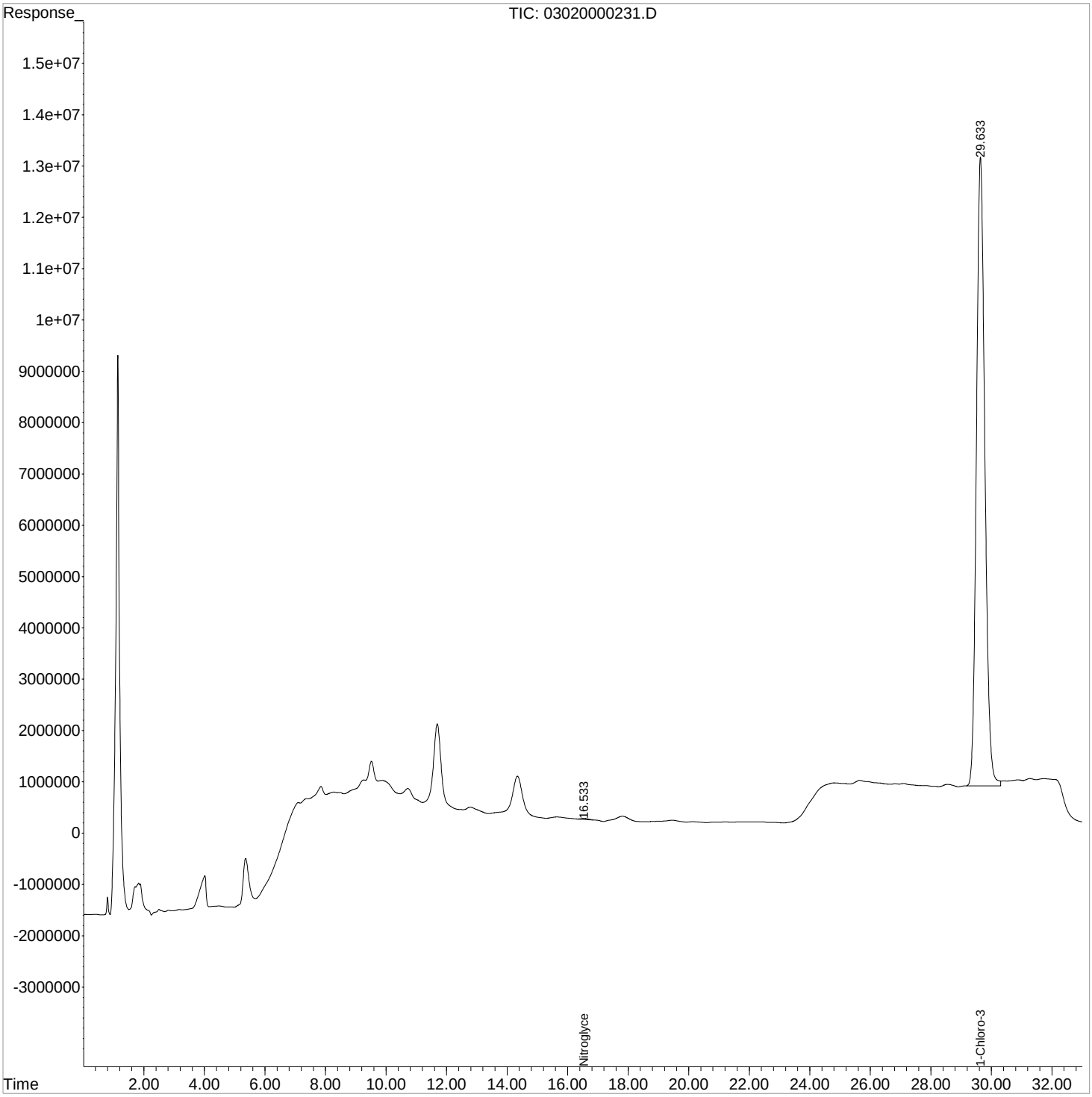
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000231.D Vial: 25
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 06:06:58 Operator: BR
Sample : K1701351-001 TRP Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 16:19:29 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

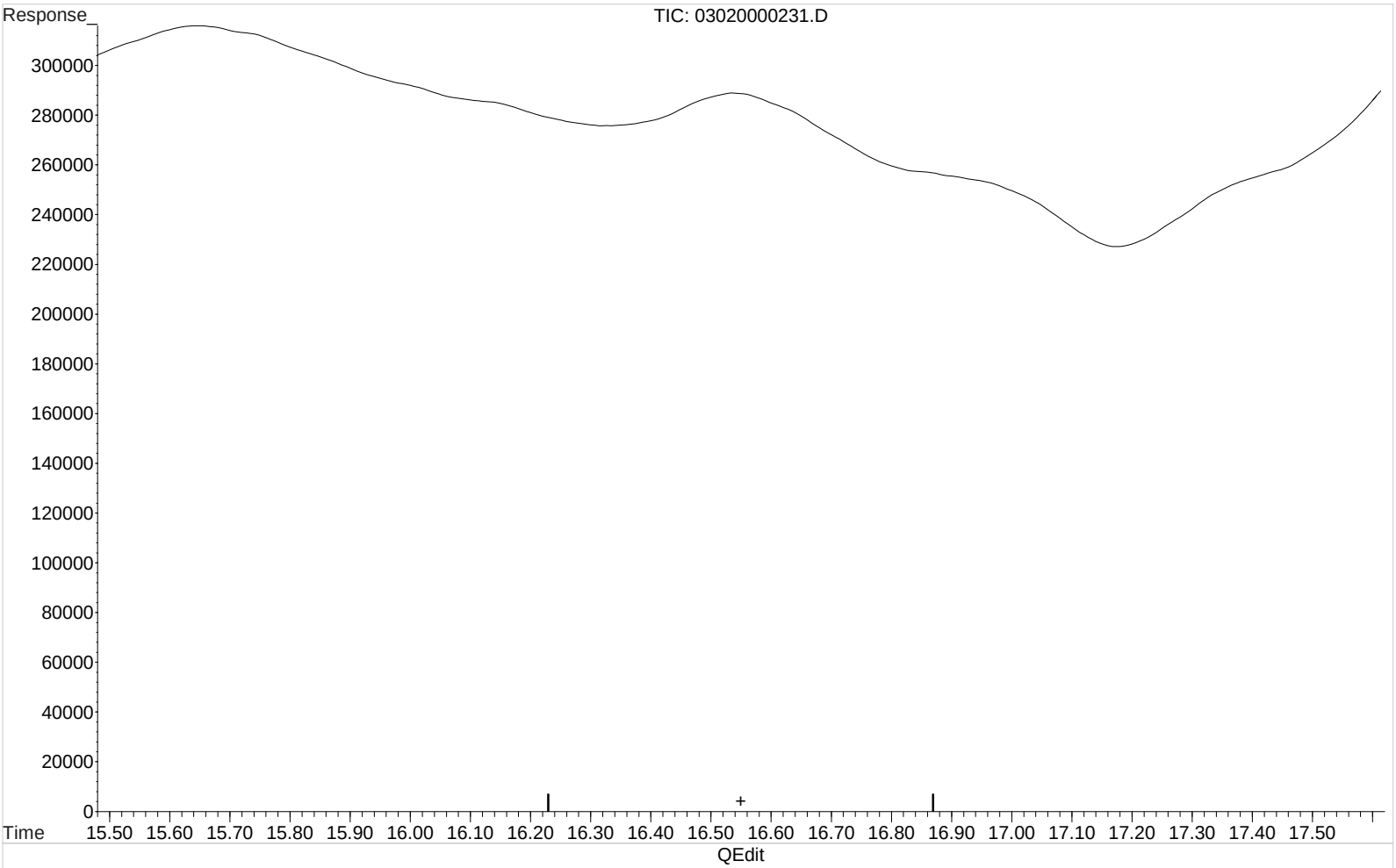


Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000231.D Vial: 25
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 06:06:58 Operator: BR
Sample : K1701351-001 TRP Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:55:42 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

0.000min 0.000 ug/L d

response 0

Manual Integration:

Before

03/08/17

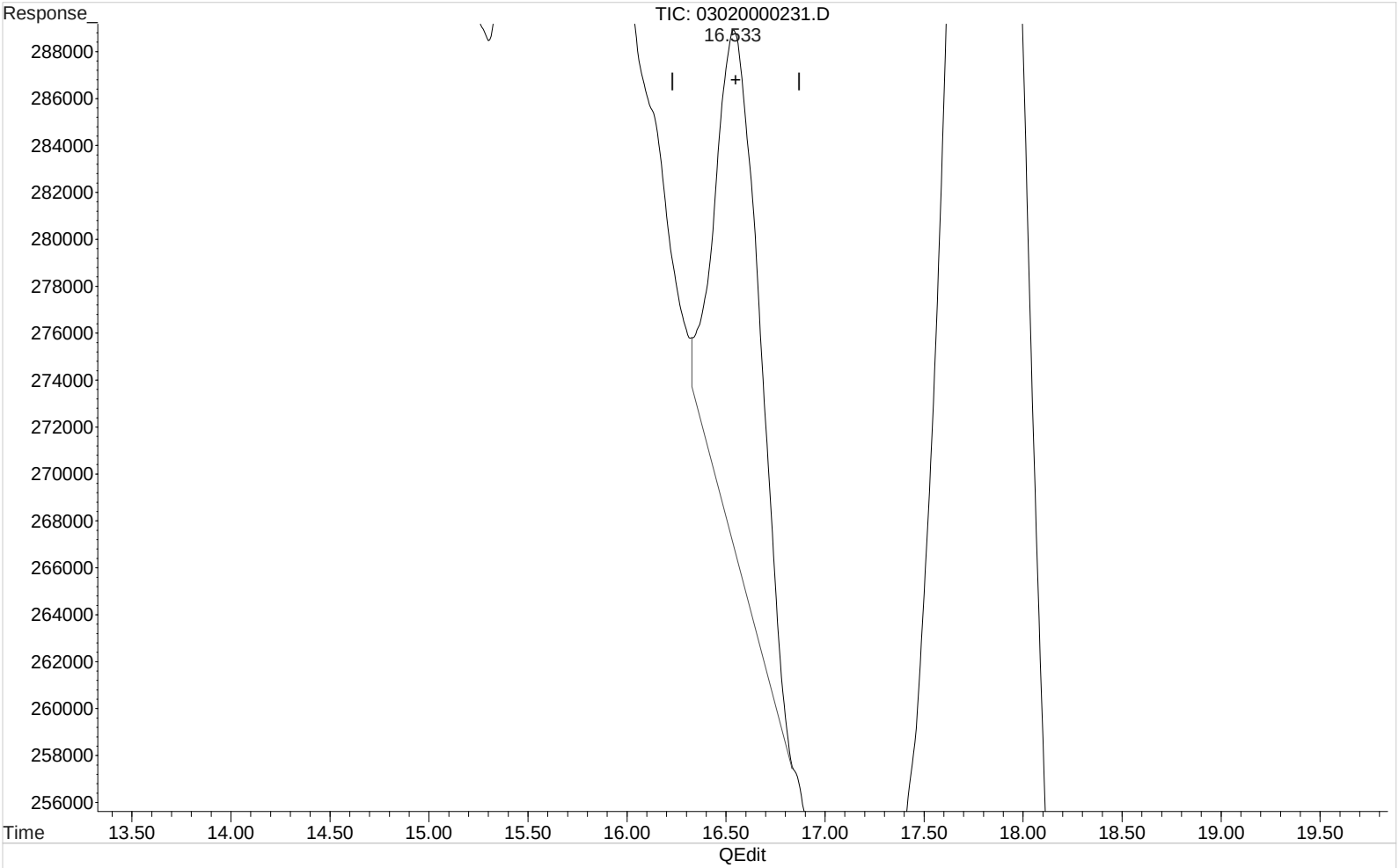
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000231.D Vial: 25
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 06:06:58 Operator: BR
Sample : K1701351-001 TRP Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:55:42 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.533min 16.542 ug/L m

response 344843

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\021517-254\0215000108.D
Lab ID: KWG1701217-1
RunType: LCS
Matrix: WATER

Date Acquired: 02/15/2017 20:55
Date Quantitated: 02/16/2017 11:40
Batch ID: KWG1701308
Analysis Method: 8330B
MethodJoinID: MJ1278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\021517-254\0215000108.D			**Instrument:**	LC10
Acqu Date:	02/15/2017 20:55	**Quant Date:**	02/16/2017 11:40	**Vial:**	6
Run Type:	LCS	**MethodJoinID:**	MJ1278	**Dilution:**	1.0
Lab ID:	KWG1701217-1			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8330B NitramAro	**Collect Date:**		**Receive Date:**	02/15/2017

Analysis Lot:	KWG1701308	**Prep Lot:**	KWG1701217	**Report Group:**	
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1586621	**Prep Date:**	02/14/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:		**Method ID:**	MJ1278
MB Ref:	J:\LC10\DATA\021517-254\0215000106.D	**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.57	0.04	73160238	3,386	68	23-98	OK	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX	4.74	0.01	20509065	1,713	6.85		
RDX	8.32	0.04	33614637	1,693	6.77		
1,3,5-Trinitrobenzene	10.41	0.02	71686253	1,605	6.42		
1,3-Dinitrobenzene	13.74	0.03	95753484	1,588	6.35		
3,5-Dinitroaniline	14.84	0.04	74319381**m**	1,557	6.23		
TETRYL	15.41	0.02	53976858**m**	1,616	6.46		
Nitrobenzene	16.08	0.03	59045786	1,529	6.12		
2,4,6-Trinitrotoluene	17.27	0.03	66902076	1,606	6.42		
4-Amino-2,6-dinitrotoluene	19.05	0.03	48097918	1,630	6.52		
2-Amino-4,6-dinitrotoluene	19.88	0.04	66452844	1,584	6.33		
2,6-Dinitrotoluene	21.60	0.05	42114563	1,722	6.89		
2,4-Dinitrotoluene	22.06	0.06	90082388	1,521	6.08		
2-Nitrotoluene	25.23	0.02	26611450	1,481	5.92		
4-Nitrotoluene	26.14	0.02	23130368	1,457	5.83		
3-Nitrotoluene	27.26	0.03	31677472	1,573	6.29		

Prep Amount:	1000 ml	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 20:55:59 Operator: AE
Sample : KWG1701217-1 LCS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 11:40:55 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
18)	S	1-Chloro-3-Nitrobenzene	29.570	73160238	3385.610	ug/L	
		Target Compounds					
1)	T	2,6-Diamino-4-nitroto...	4.196f	34789	NoCal	ug/L	
2)	T	HMX	4.736	20509065	1712.657	ug/L	
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	8.316	33614637	1692.558	ug/L	
5)	T	1,3,5-TNB	10.410	71686253	1604.933	ug/L	
6)	T	1,3-DNB	13.736	95753484	1588.419	ug/L	
7)	T	3,5-Dinitroaniline	14.836	74319381	1556.665	ug/L	m
8)	T	Tetryl	15.410	53976858	1616.090	ug/L	m
9)	T	Nitrobenzene	16.083	59045786	1529.117	ug/L	
10)	T	2,4,6-TNT	17.270	66902076	1606.136	ug/L	
11)	T	4-Amino-2,6-DNT	19.050	48097918	1629.672	ug/L	
12)	T	2-Amino-4,6-DNT	19.876	66452844	1583.642	ug/L	
13)	T	2,6-DNT	21.596	42114563	1721.580	ug/L	
14)	T	2,4-DNT	22.056	90082388	1520.748	ug/L	
15)	T	2-NT	25.230	26611450	1481.205	ug/L	
16)	T	4-NT	26.143	23130368	1457.323	ug/L	
17)	T	3-NT	27.263	31677472	1573.172	ug/L	

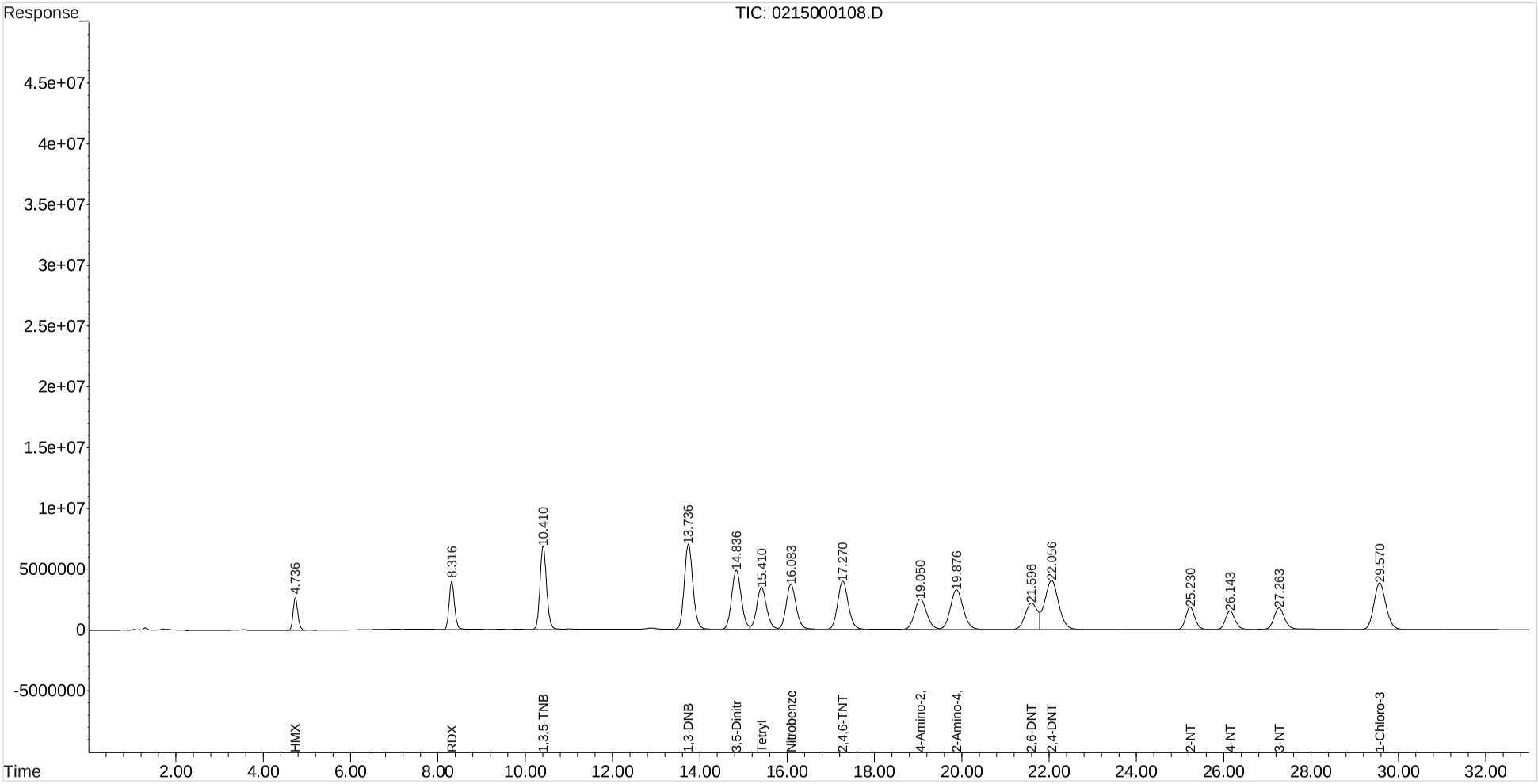
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 20:55:59 Operator: AE
Sample : KWG1701217-1 LCS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 11:40:55 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



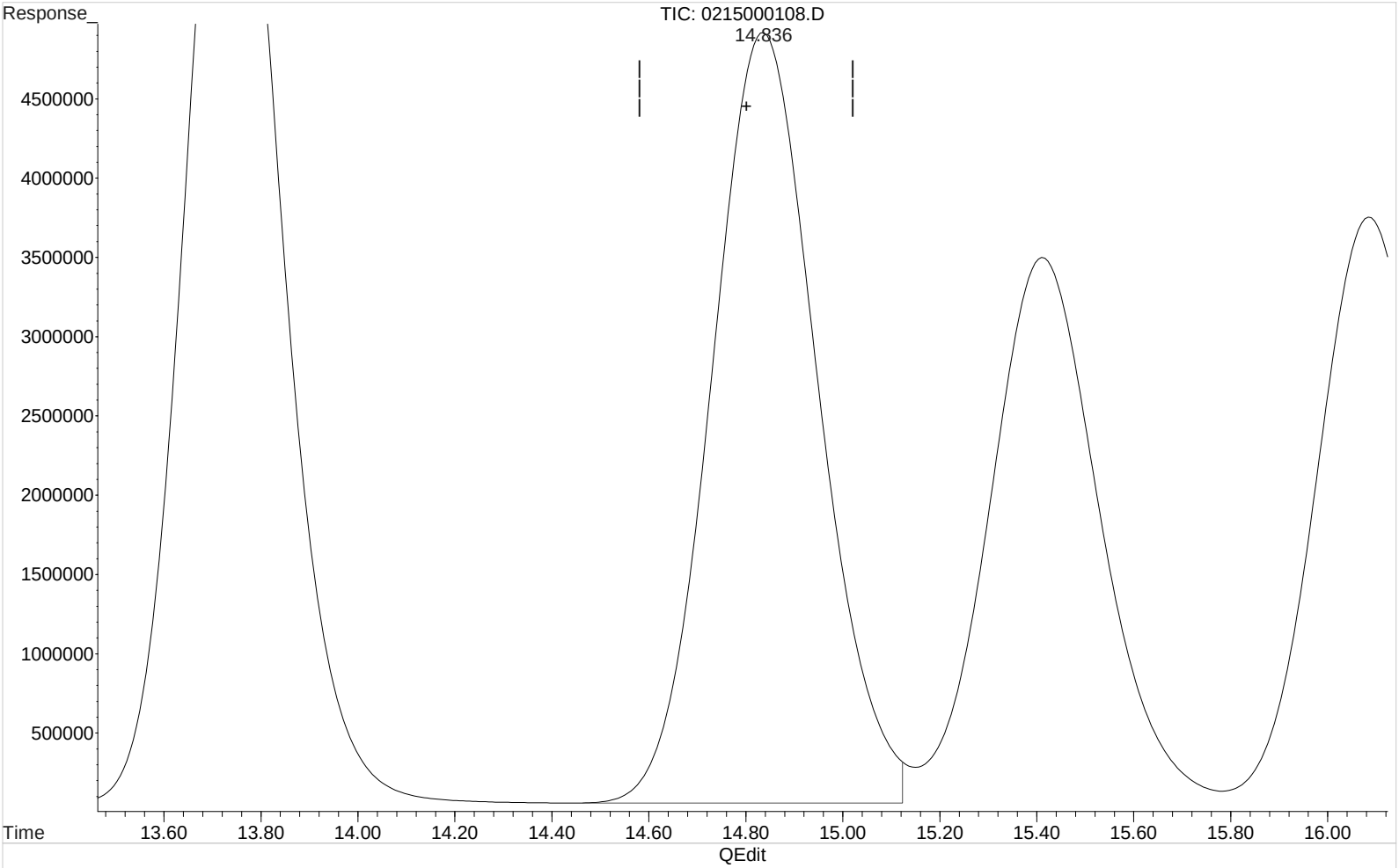
012402

Quantitation Report (Qedit)

Data File : J:\LC10\Data\021517-254\0215000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 20:55:59 Operator: AE
Sample : KWG1701217-1 LCS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:28:48 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.836min 1548.062 ug/L

response 73908654

Manual Integration:

Before

02/16/17

(+) = Expected Retention Time

(b) (6)

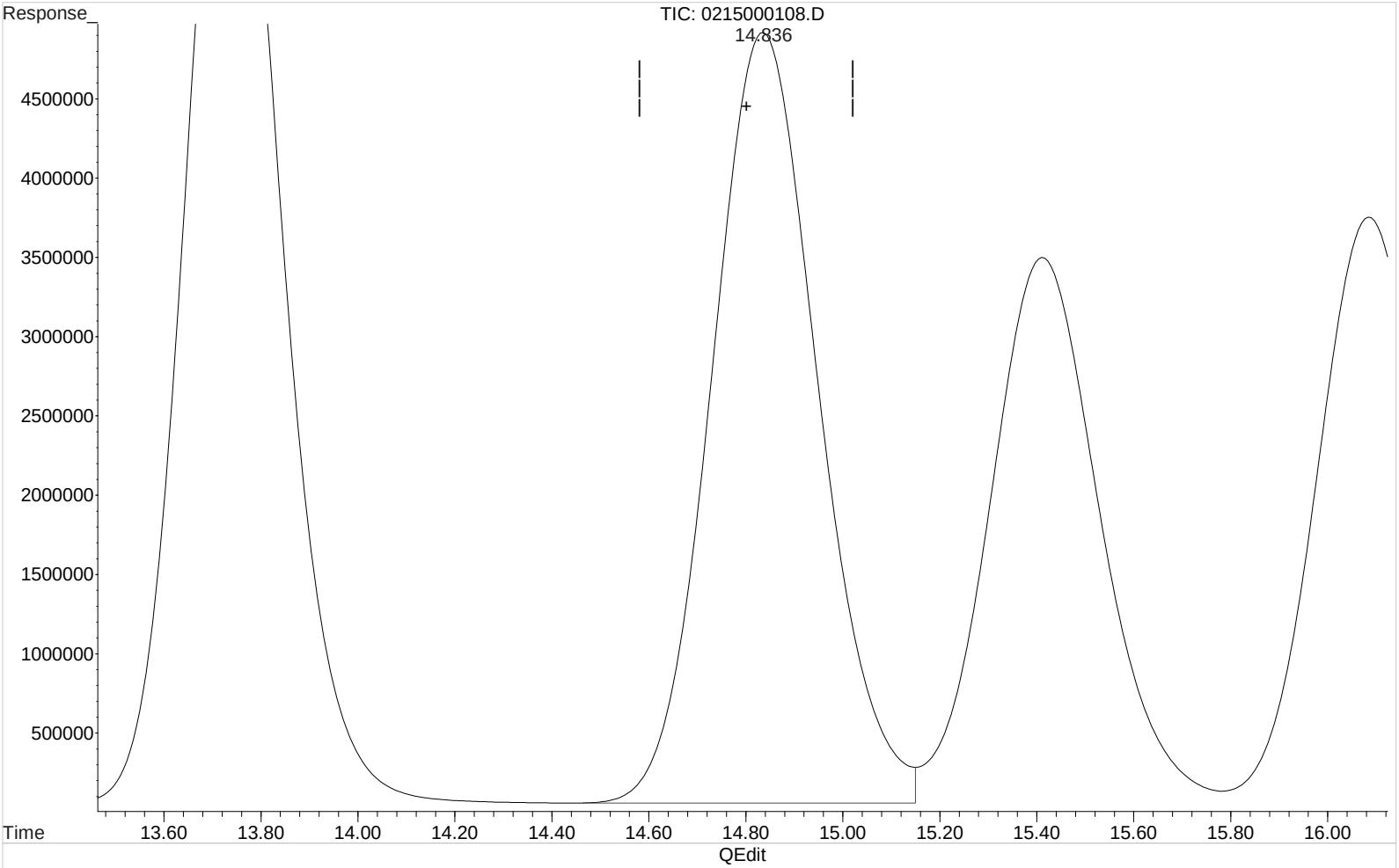
2/17/17

2/27/17

Data File : J:\LC10\Data\021517-254\0215000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 20:55:59 Operator: AE
Sample : KWG1701217-1 LCS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:28:48 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.836min 1556.665 ug/L m

response 74319381

Manual Integration:

After

BLC

02/16/17

(+) = Expected Retention Time

(b) (6)

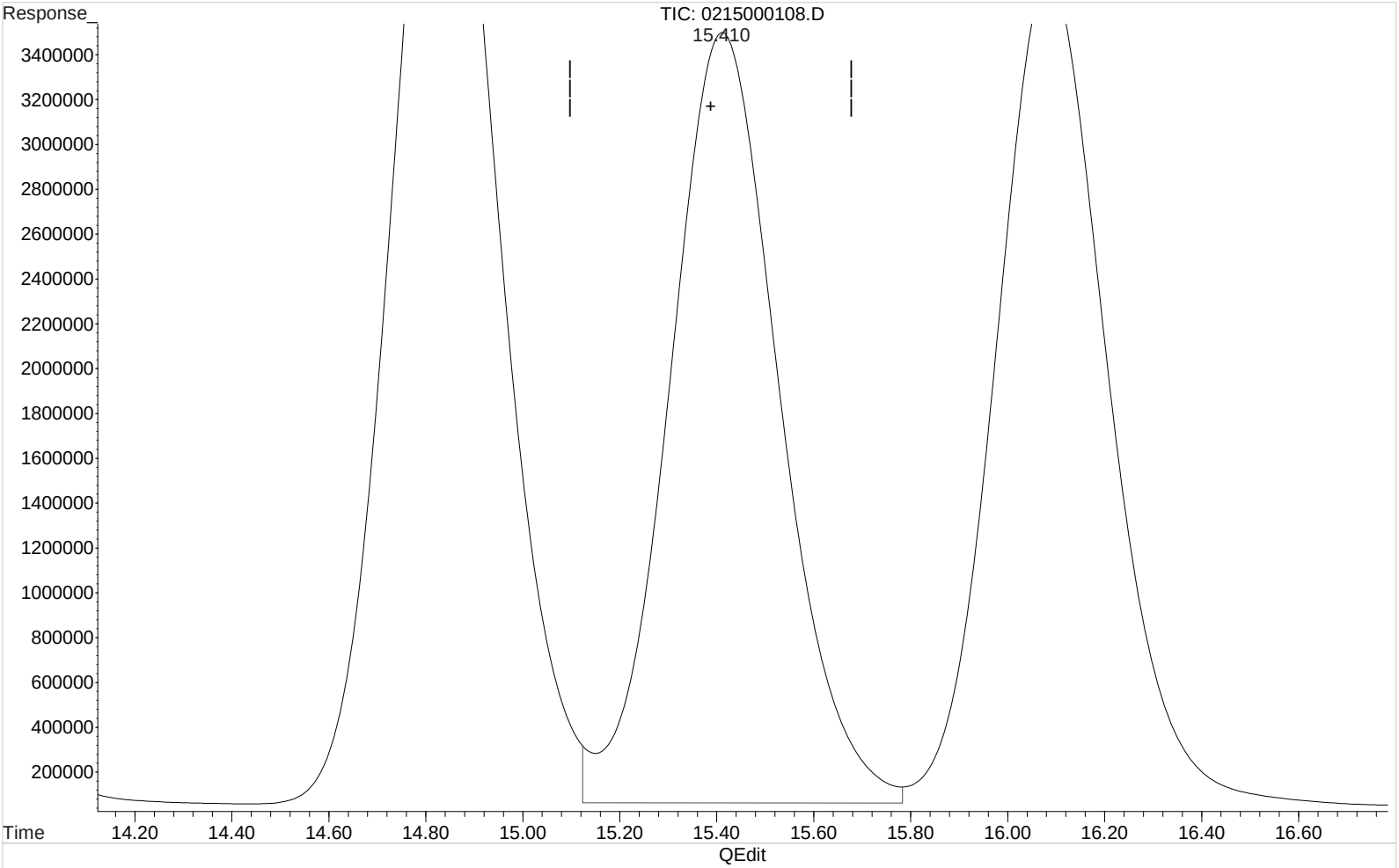
2/17/17

2/27/17

Data File : J:\LC10\Data\021517-254\0215000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 20:55:59 Operator: AE
Sample : KWG1701217-1 LCS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:28:48 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.410min 1623.875 ug/L

response 54236858

Manual Integration:

Before

02/16/17

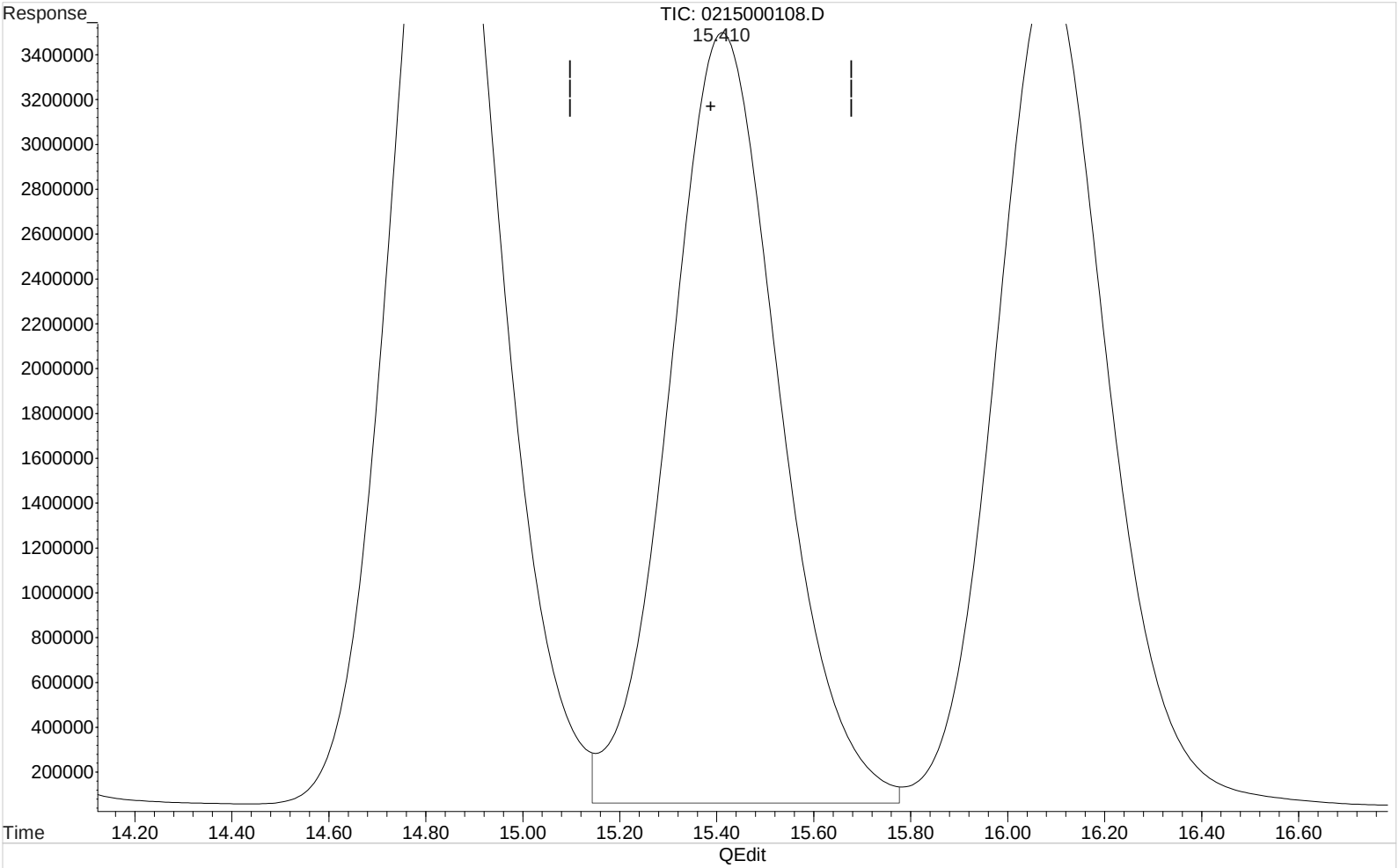
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\021517-254\0215000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 20:55:59 Operator: AE
Sample : KWG1701217-1 LCS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:28:48 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.410min 1616.090 ug/L m

response 53976858

Manual Integration:

After

BLC

02/16/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\021517-210\0215000108.D
Lab ID: KWG1701217-1
RunType: LCS
Matrix: WATER

Date Acquired: 02/15/2017 20:55
Date Quantitated: 02/16/2017 13:18
Batch ID: KWG1701307
Analysis Method: 8330B
MethodJoinID: MJ1278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\021517-210\0215000108.D			**Instrument:**	LC10
Acqu Date:	02/15/2017 20:55	**Quant Date:**	02/16/2017 13:18	**Vial:**	6
Run Type:	LCS	**MethodJoinID:**	MJ1278	**Dilution:**	1.0
Lab ID:	KWG1701217-1			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8330B NitramAro	**Collect Date:**		**Receive Date:**	02/15/2017

Analysis Lot:	KWG1701307	**Prep Lot:**	KWG1701217	**Report Group:**	
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1586621	**Prep Date:**	02/14/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1278
MB Ref:	J:\LC10\DATA\021517-254\0215000106.D	**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.57	0.04	193059832	3,395	68	23-98	OK	NR

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.48	0.03	34886207	1,673	6.69		
Pentaerythritol Tetranitrate	27.54	0.07	26562742**m**	1,510	6.04		

Prep Amount:	1000 ml	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-210\0215000108.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 20:55:59 Operator: AE
Sample : KWG1701217-1 LCS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 13:18:31 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.570	193059832	3395.244	ug/L	
Target Compounds						
1) T	Nitroglycerin	16.483	34886207	1673.465	ug/L	
2) T	PETN	27.543	26562742	1509.635	ug/L	m

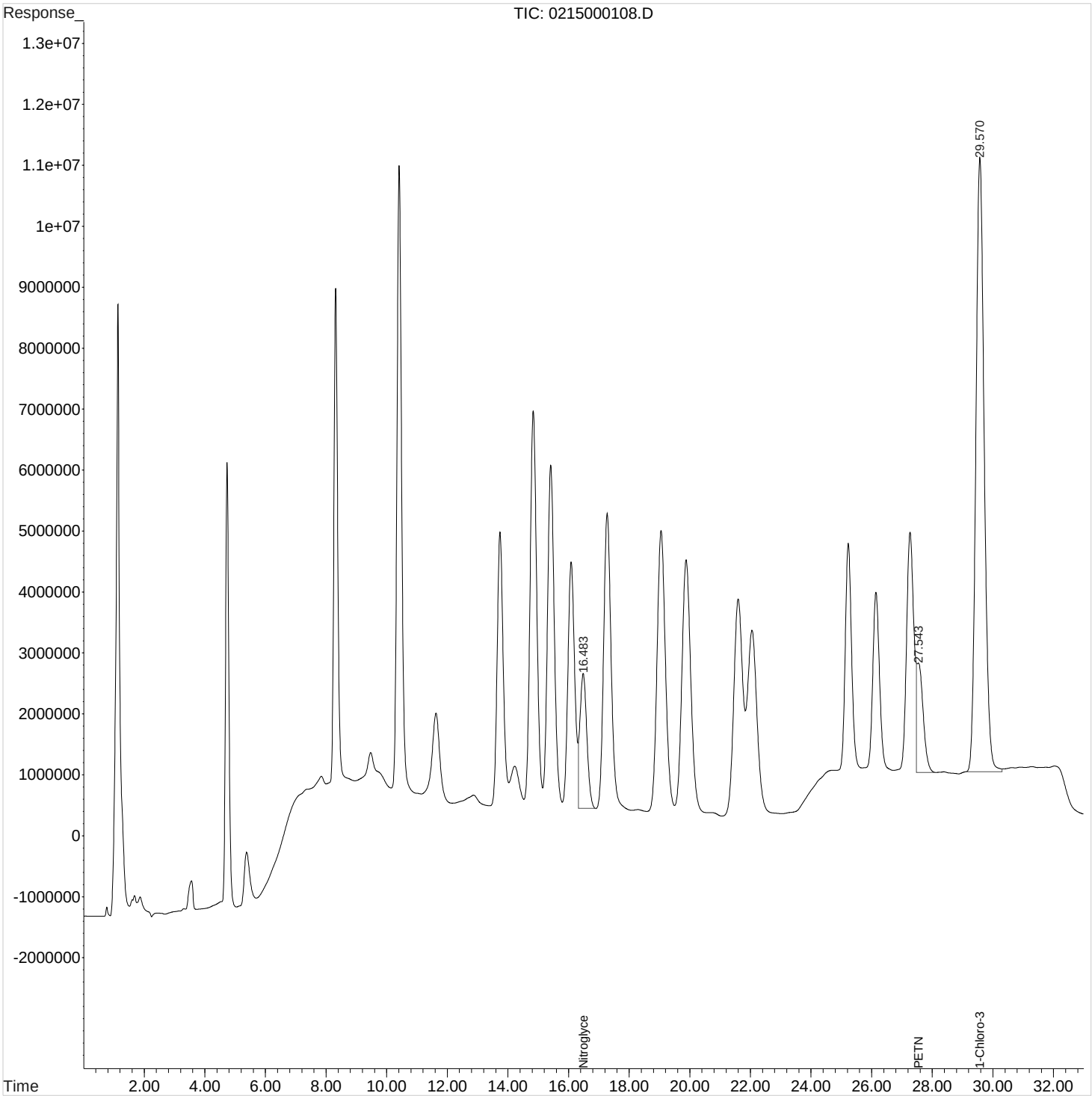
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-210\0215000108.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 20:55:59 Operator: AE
Sample : KWG1701217-1 LCS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 13:18:31 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

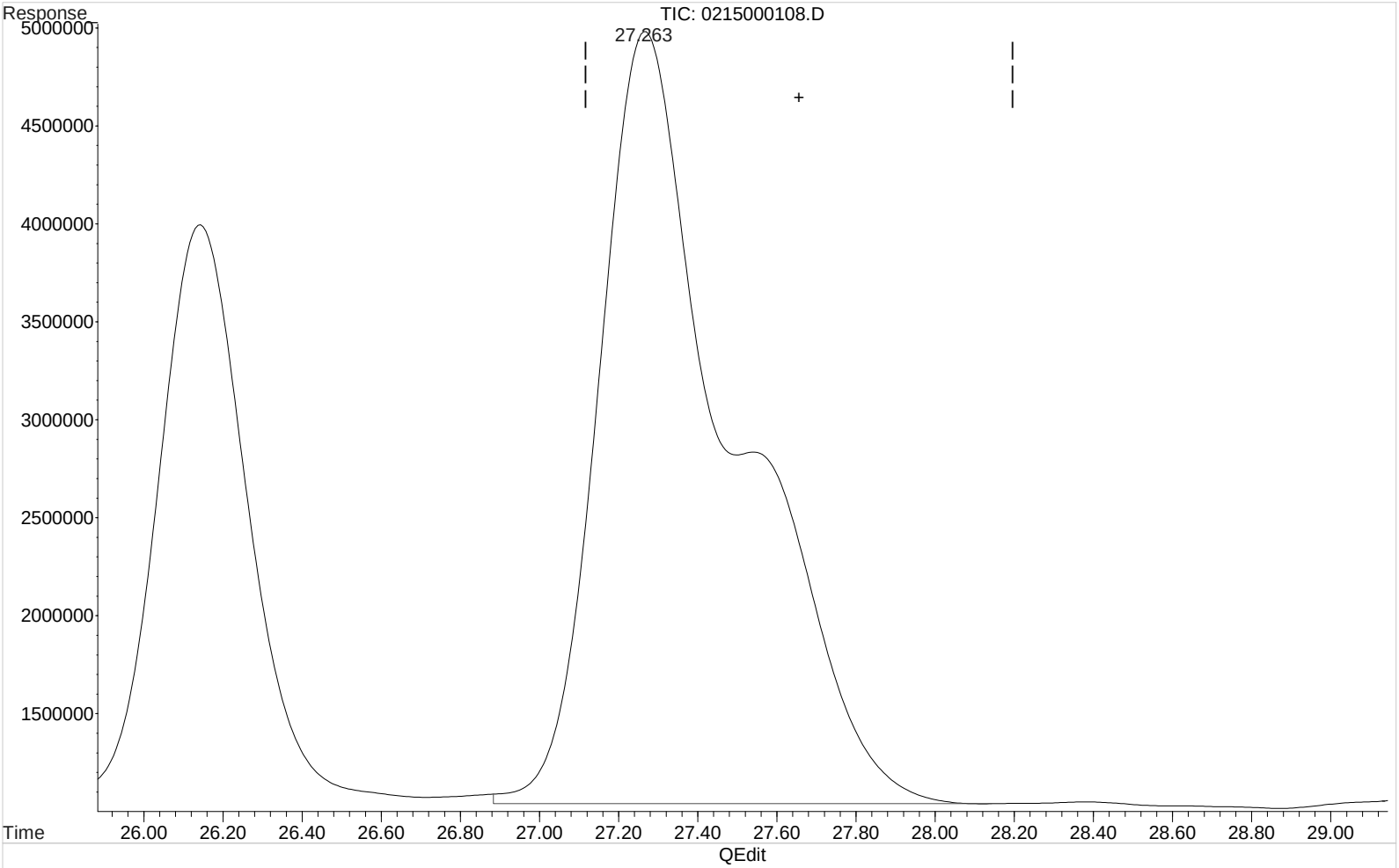


Quantitation Report (Qedit)

Data File : J:\LC10\Data\021517-210\0215000108.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 20:55:59 Operator: AE
Sample : KWG1701217-1 LCS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 12:24:46 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.263min 5319.470 ug/L

response 93598581

Manual Integration:

Before

02/16/17

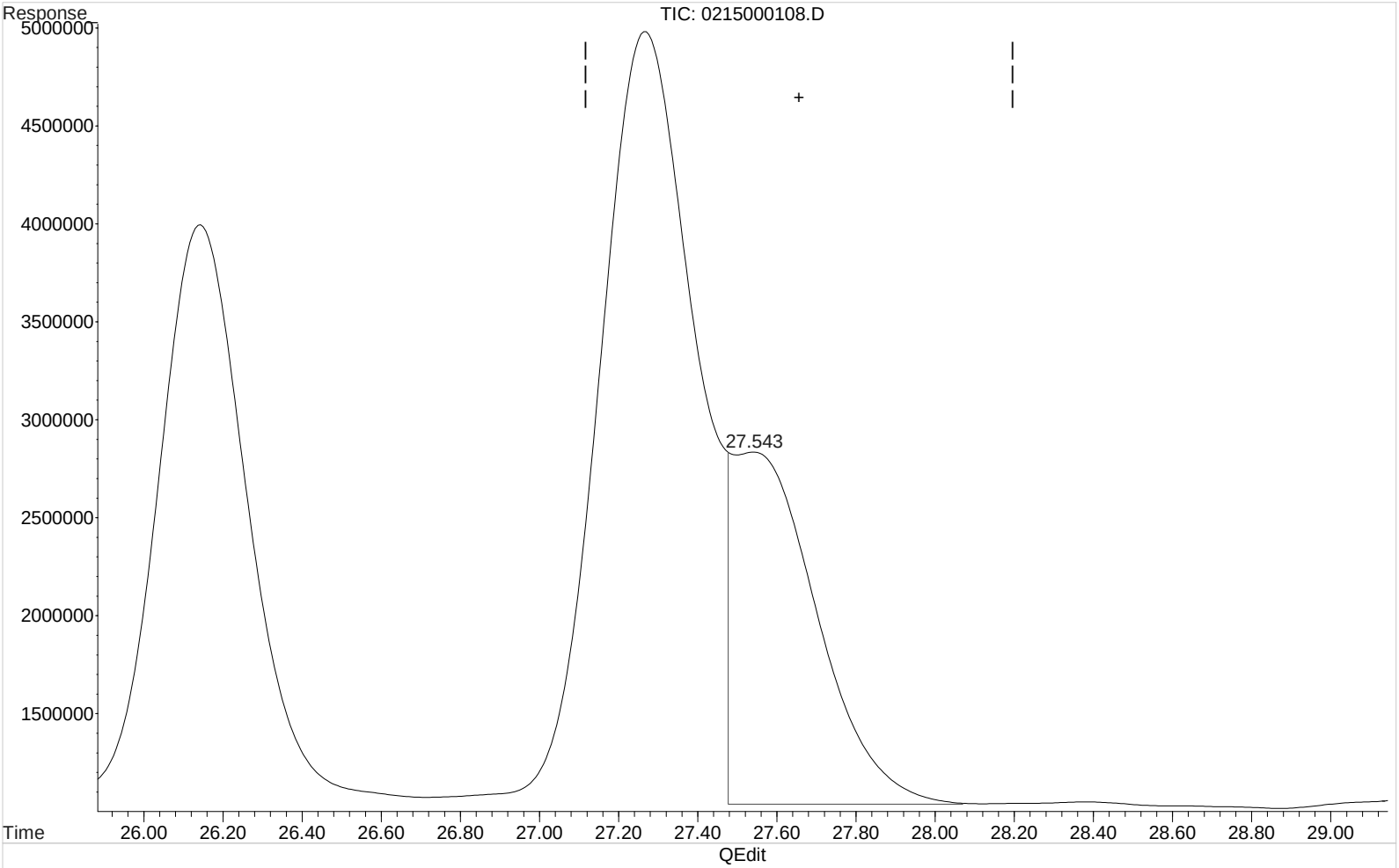
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\021517-210\0215000108.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 20:55:59 Operator: AE
Sample : KWG1701217-1 LCS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 12:24:46 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.543min 1509.635 ug/L m

response 26562742

Manual Integration:

After

BLC

02/16/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\021517-254\0215000109.D
Lab ID: KWG1701217-2
RunType: DLCS
Matrix: WATER

Date Acquired: 02/15/2017 21:32
Date Quantitated: 02/16/2017 11:42
Batch ID: KWG1701308
Analysis Method: 8330B
MethodJoinID: MJ1278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\021517-254\0215000109.D			**Instrument:**	LC10
Acqu Date:	02/15/2017 21:32	**Quant Date:**	02/16/2017 11:42	**Vial:**	7
Run Type:	DLCS	**MethodJoinID:**	MJ1278	**Dilution:**	1.0
Lab ID:	KWG1701217-2			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8330B NitramAro	**Collect Date:**		**Receive Date:**	02/15/2017

Analysis Lot:	KWG1701308	**Prep Lot:**	KWG1701217	**Report Group:**	
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1586622	**Prep Date:**	02/14/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1278
MB Ref:	J:\LC10\DATA\021517-254\0215000106.D	**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.56	0.03	84580351	3,914	78	23-98	OK	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX	4.74	0.01	20719453	1,730	6.92		
RDX	8.31	0.03	33815402	1,703	6.81		
1,3,5-Trinitrobenzene	10.43	0.04	76099814	1,704	6.81		
1,3-Dinitrobenzene	13.73	0.02	102520086	1,701	6.80		
3,5-Dinitroaniline	14.83	0.03	77557778**m**	1,624	6.50		
TETRYL	15.40	0.01	55112983**m**	1,650	6.60		
Nitrobenzene	16.08	0.03	63788221	1,652	6.61		
2,4,6-Trinitrotoluene	17.26	0.02	71345681	1,713	6.85		
4-Amino-2,6-dinitrotoluene	19.03	0.01	50104420	1,698	6.79		
2-Amino-4,6-dinitrotoluene	19.86	0.02	69960727	1,667	6.67		
2,6-Dinitrotoluene	21.57	0.02	45856109**m**	1,875	7.50		
2,4-Dinitrotoluene	22.03	0.03	97401214**m**	1,644	6.58		
2-Nitrotoluene	25.22	0.01	29679376	1,652	6.61		
4-Nitrotoluene	26.14	0.02	25834661	1,628	6.51		
3-Nitrotoluene	27.26	0.03	33475279	1,662	6.65		

Prep Amount:	1000 ml	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 21:32:10 Operator: AE
Sample : KWG1701217-2 DLCS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 11:42:14 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
18) S	1-Chloro-3-Nitrobenzene	29.556	84580351	3914.094	ug/L	
	Target Compounds					
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2) T	HMX	4.736	20719453	1730.226	ug/L	
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4) T	RDX	8.309	33815402	1702.667	ug/L	
5) T	1,3,5-TNB	10.429	76099814	1703.745	ug/L	
6) T	1,3-DNB	13.729	102520086	1700.667	ug/L	
7) T	3,5-Dinitroaniline	14.829	77557778	1624.495	ug/L	m
8) T	Tetryl	15.403	55112983	1650.107	ug/L	m
9) T	Nitrobenzene	16.076	63788221	1651.933	ug/L	
10) T	2,4,6-TNT	17.256	71345681	1712.815	ug/L	
11) T	4-Amino-2,6-DNT	19.029	50104420	1697.657	ug/L	
12) T	2-Amino-4,6-DNT	19.856	69960727	1667.239	ug/L	
13) T	2,6-DNT	21.569	45856109	1874.529	ug/L	m
14) T	2,4-DNT	22.029	97401214	1644.302	ug/L	m
15) T	2-NT	25.223	29679376	1651.967	ug/L	
16) T	4-NT	26.143	25834661	1627.706	ug/L	
17) T	3-NT	27.263	33475279	1662.455	ug/L	

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] (b) (6) 2/17/17 2/27/17

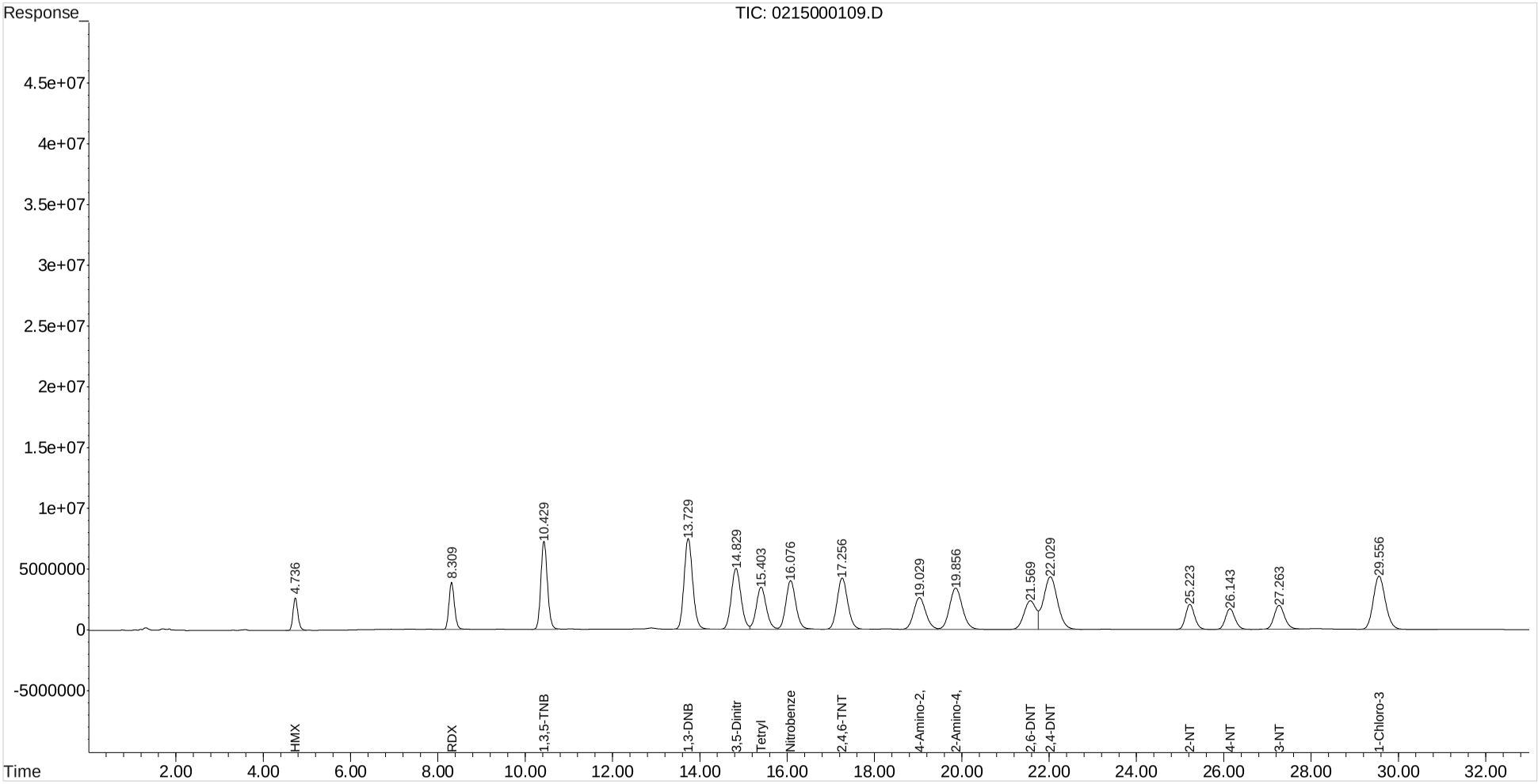
11/01/2018

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 21:32:10 Operator: AE
Sample : KWG1701217-2 DLCS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 11:42:14 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



012416

(b) (6)

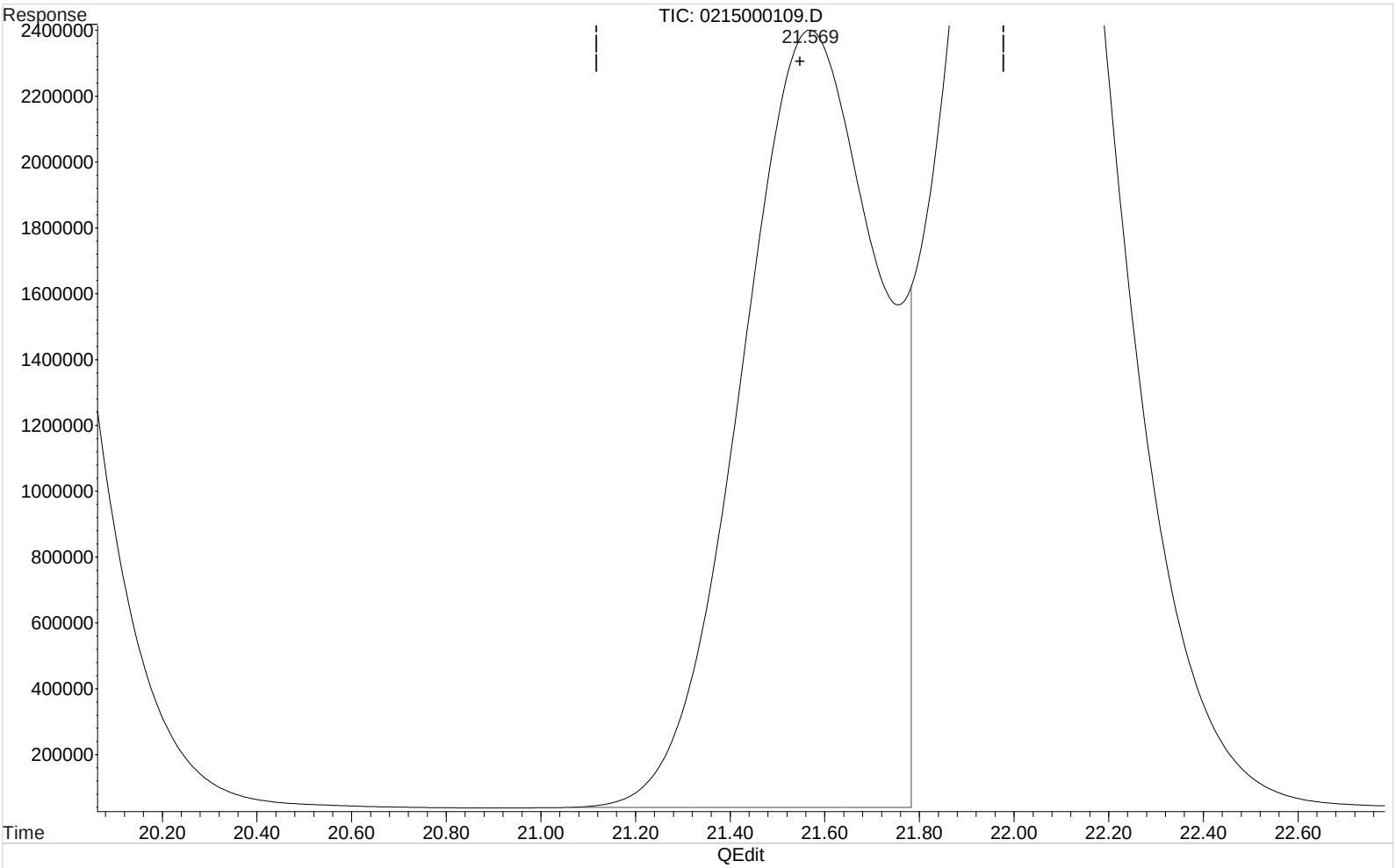
02/17/17

02/27/17

Data File : J:\LC10\Data\021517-254\0215000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 21:32:10 Operator: AE
Sample : KWG1701217-2 DLCS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:28:50 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.569min 1972.472 ug/L

response 48252064

Manual Integration:

Before

02/16/17

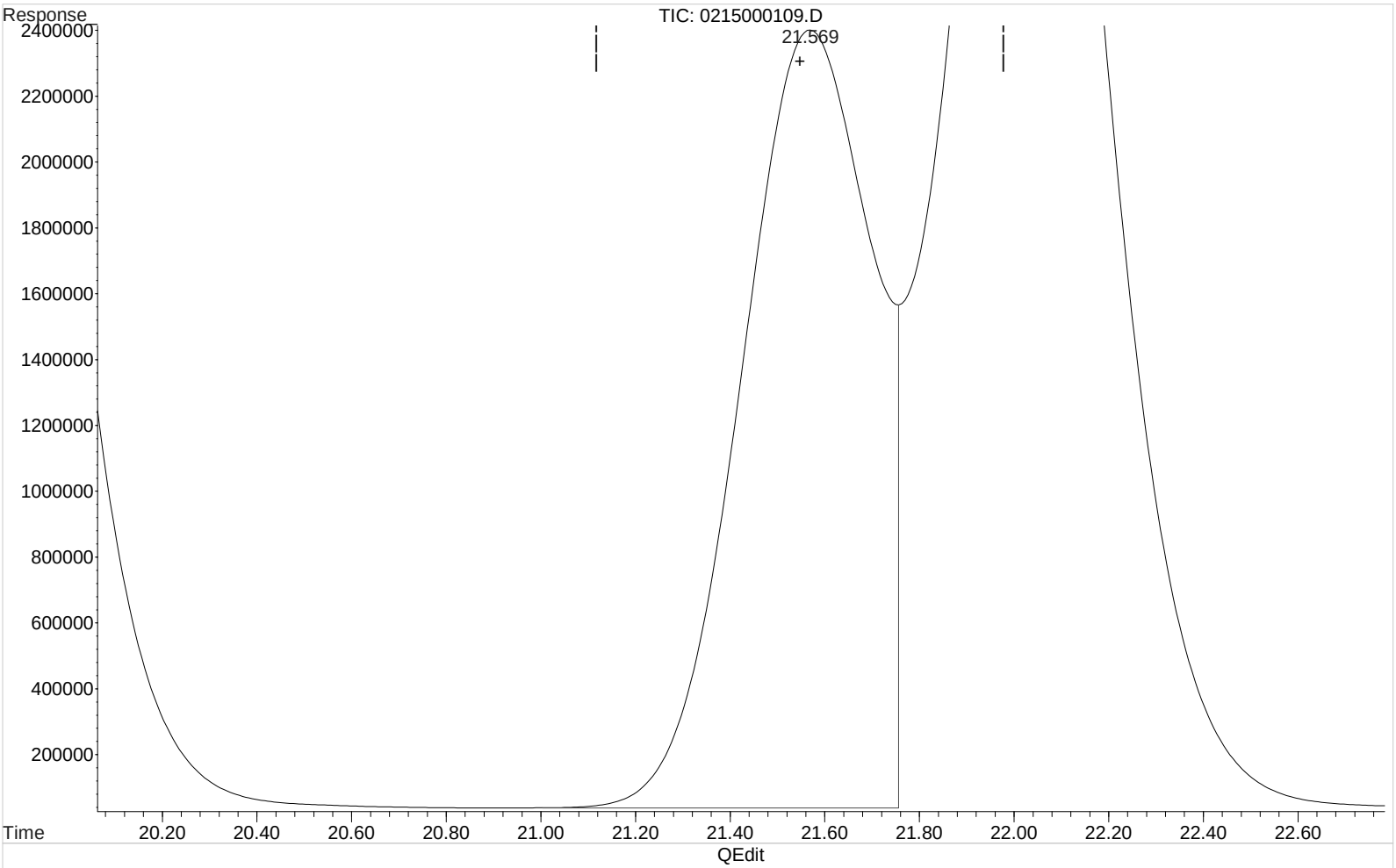
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\021517-254\0215000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 21:32:10 Operator: AE
Sample : KWG1701217-2 DLCS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:28:50 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.569min 1874.529 ug/L m

response 45856109

Manual Integration:

After

BLC

02/16/17

(+) = Expected Retention Time

(b) (6)

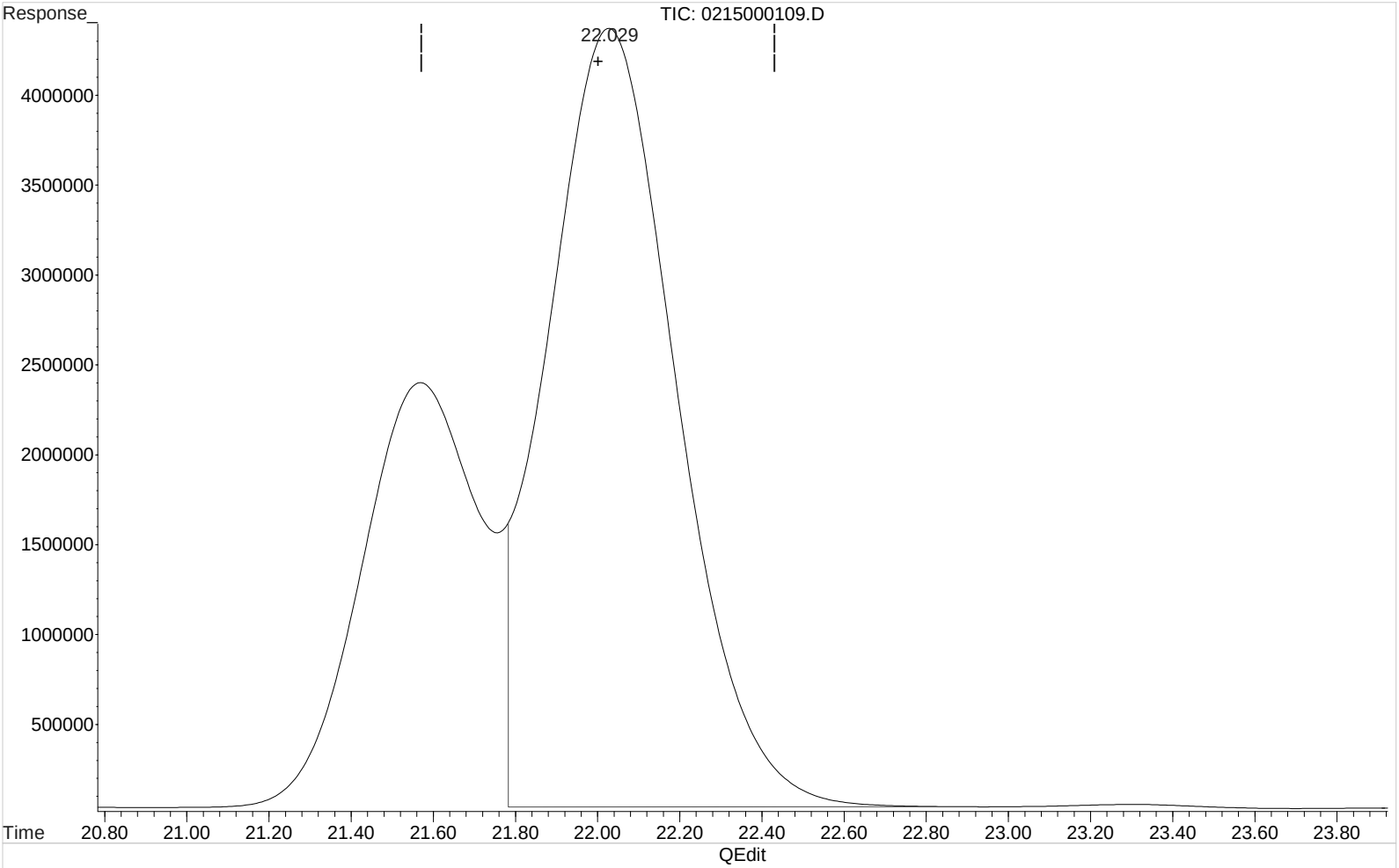
02/17/17

02/27/17

Data File : J:\LC10\Data\021517-254\0215000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 21:32:10 Operator: AE
Sample : KWG1701217-2 DLCS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:28:50 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.029min 1594.195 ug/L

response 94433110

Manual Integration:

Before

02/16/17

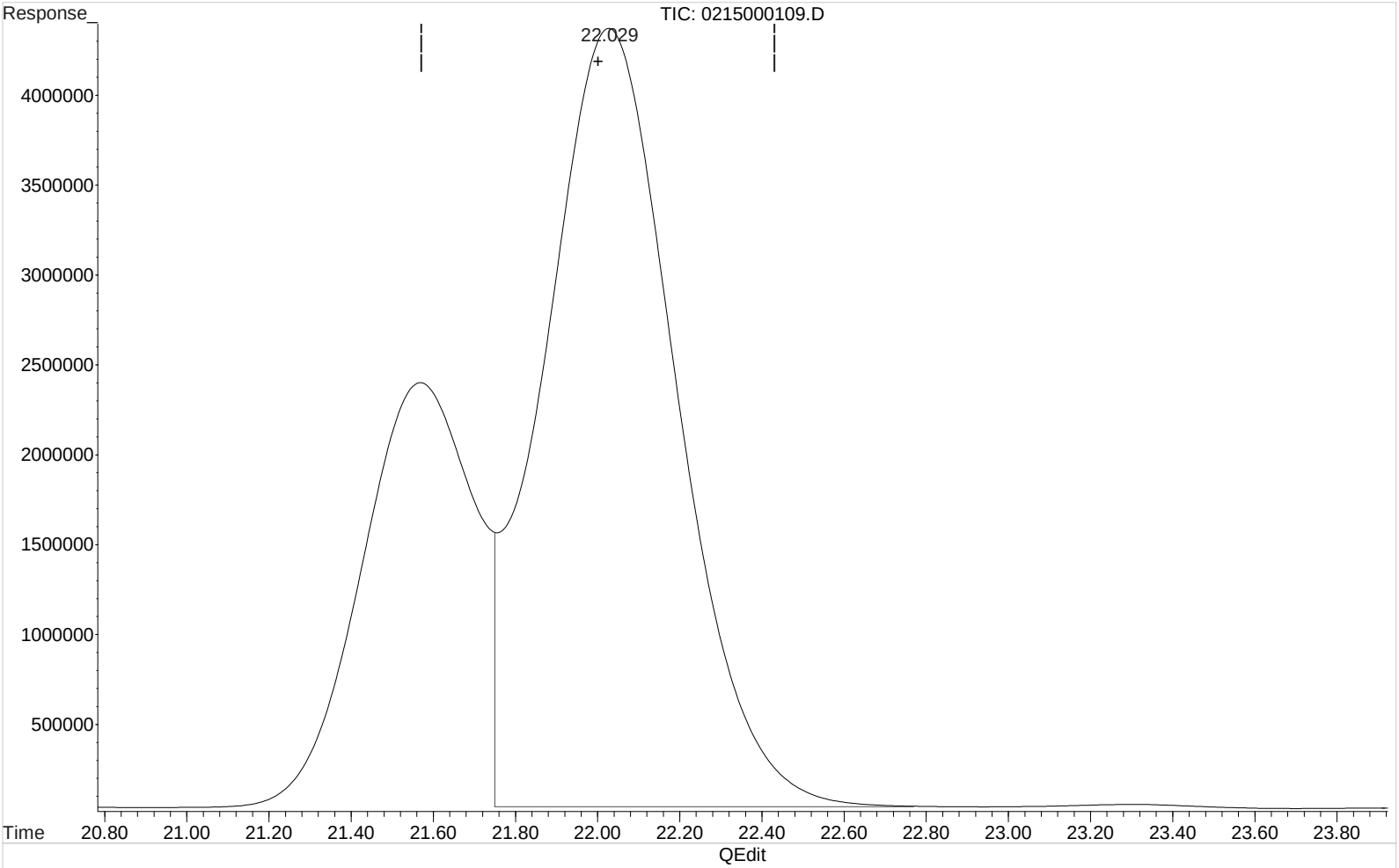
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\021517-254\0215000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 21:32:10 Operator: AE
Sample : KWG1701217-2 DLCS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:28:50 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.029min 1644.302 ug/L m

response 97401214

Manual Integration:

After

BLC

02/16/17

(+) = Expected Retention Time

(b) (6)

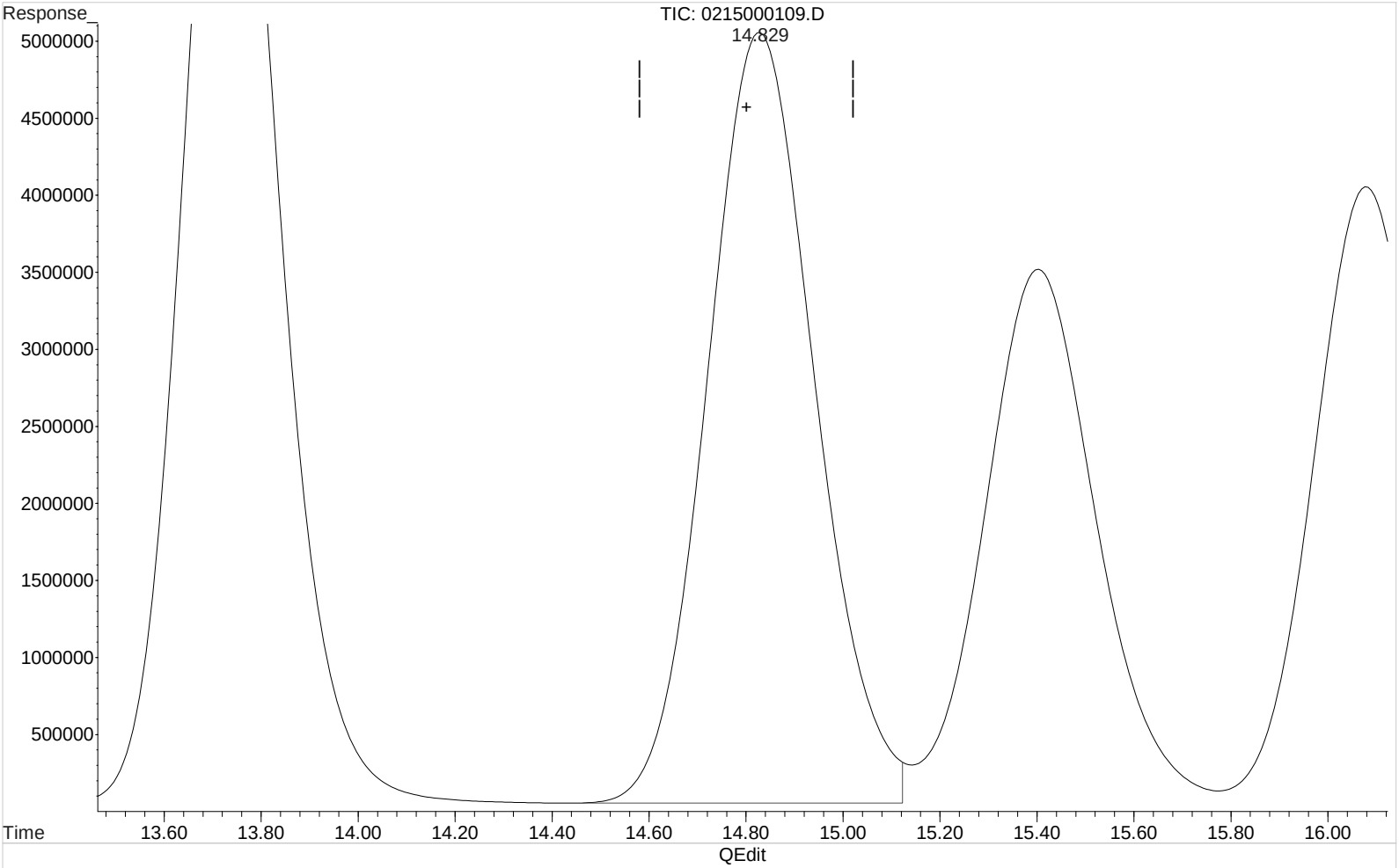
02/17/17

02/27/17

Data File : J:\LC10\Data\021517-254\0215000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 21:32:10 Operator: AE
Sample : KWG1701217-2 DLCS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:28:50 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(7) 3,5-Dinitroaniline (T)

14.829min 1611.641 ug/L

response 76944086

Manual Integration:

Before

02/16/17

(+) = Expected Retention Time

(b) (6)

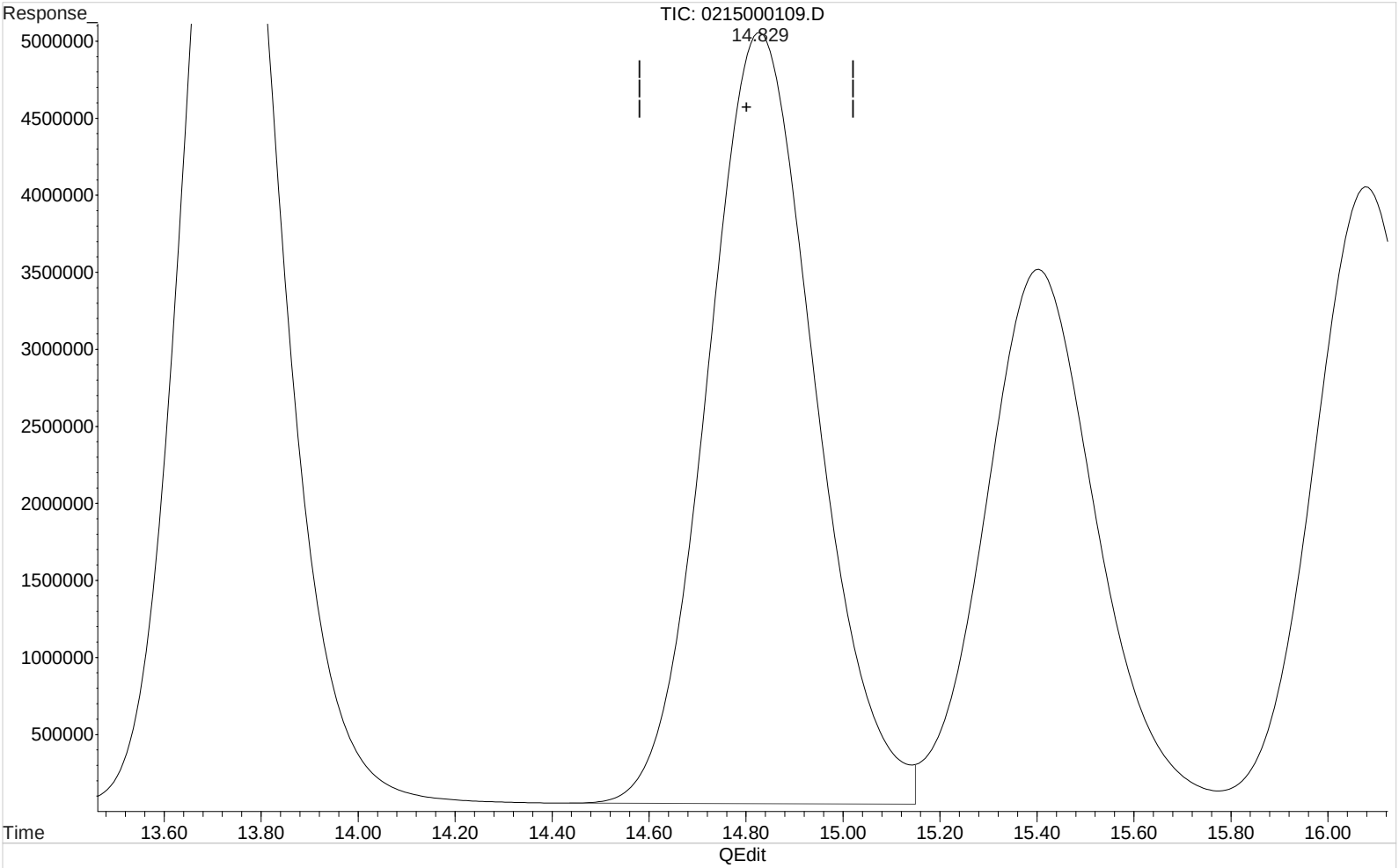
02/17/17

02/27/17

Data File : J:\LC10\Data\021517-254\0215000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 21:32:10 Operator: AE
Sample : KWG1701217-2 DLCS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:28:50 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.829min 1624.495 ug/L m

response 77557778

Manual Integration:

After

BLC

02/16/17

(+) = Expected Retention Time

(b) (6)

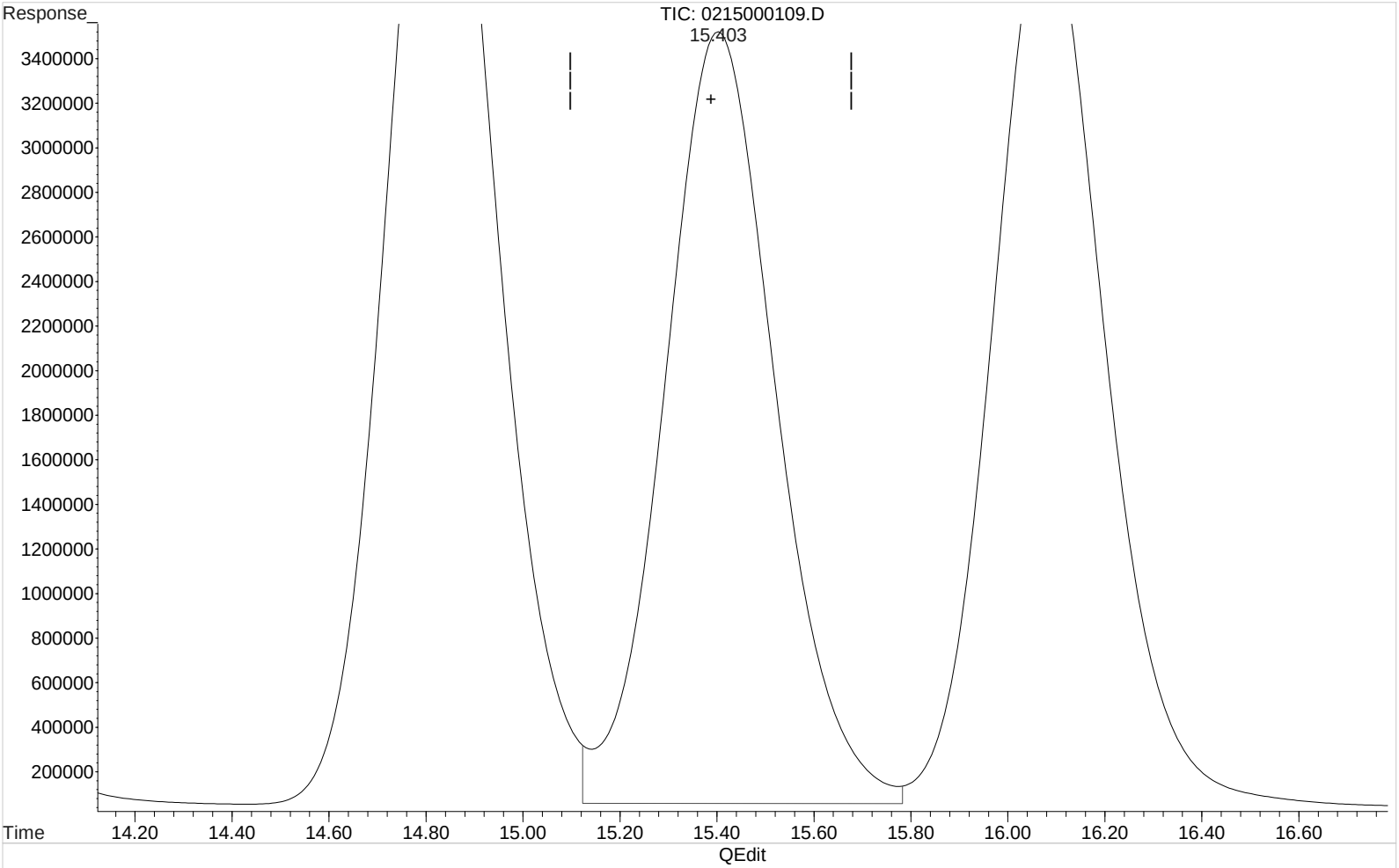
02/17/17

02/27/17

Data File : J:\LC10\Data\021517-254\0215000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 21:32:10 Operator: AE
Sample : KWG1701217-2 DLCS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:28:50 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.403min 1651.546 ug/L

response 55161069

Manual Integration:

Before

02/16/17

(+) = Expected Retention Time

(b) (6)

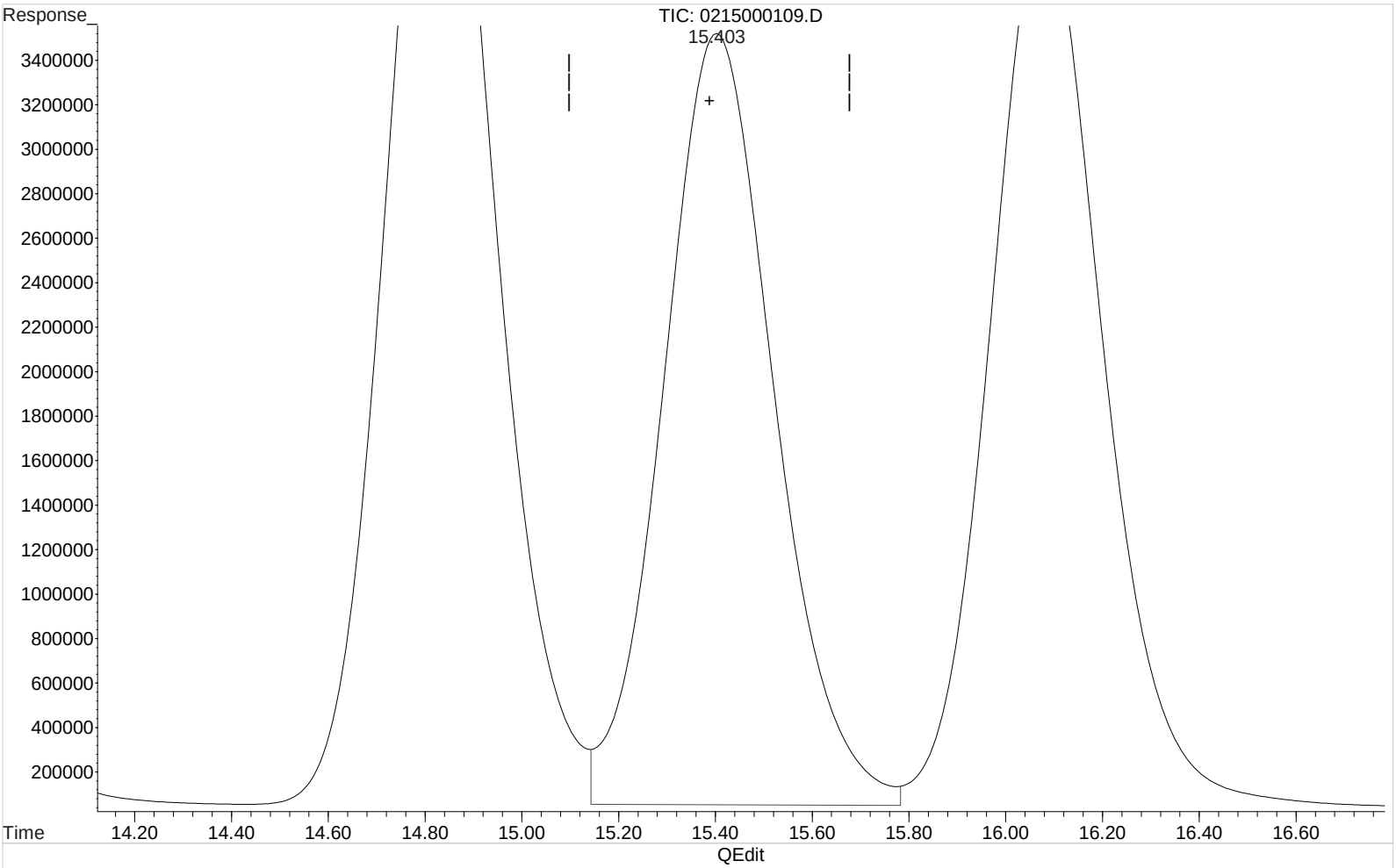
02/17/17

02/27/17

Data File : J:\LC10\Data\021517-254\0215000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 21:32:10 Operator: AE
Sample : KWG1701217-2 DLCS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:28:50 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.403min 1650.107 ug/L m

response 55112983

Manual Integration:

After

BLC

02/16/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\021517-210\0215000109.D
Lab ID: KWG1701217-2
RunType: DLCS
Matrix: WATER

Date Acquired: 02/15/2017 21:32
Date Quantitated: 02/16/2017 13:19
Batch ID: KWG1701307
Analysis Method: 8330B
MethodJoinID: MJ1278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\021517-210\0215000109.D			**Instrument:**	LC10
Acqu Date:	02/15/2017 21:32	**Quant Date:**	02/16/2017 13:19	**Vial:**	7
Run Type:	DLCS	**MethodJoinID:**	MJ1278	**Dilution:**	1.0
Lab ID:	KWG1701217-2			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	WATER
Prod Code:	8330B NitramAro	**Collect Date:**		**Receive Date:**	02/15/2017

Analysis Lot:	KWG1701307	**Prep Lot:**	KWG1701217	**Report Group:**	
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1586622	**Prep Date:**	02/14/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1278
MB Ref:	J:\LC10\DATA\021517-254\0215000106.D	**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.56	0.03	223271004	3,927	79	23-98	OK	NR

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.47	0.02	37269170**m**	1,788	7.15		
Pentaerythritol Tetranitrate	27.48	0.01	27032413**m**	1,536	6.15		

Prep Amount:	1000 ml	**Dilution:**	1.0
Prep Final Vol:	4 ml	**Unit Factor:**	1

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / Prep Amount) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-210\0215000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 21:32:10 Operator: AE
Sample : KWG1701217-2 DLCS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 13:19:10 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.556	223271004	3926.552	ug/L	
Target Compounds						
1) T	Nitroglycerin	16.469	37269170	1787.774	ug/L	m
2) T	PETN	27.476	27032413	1536.328	ug/L	m

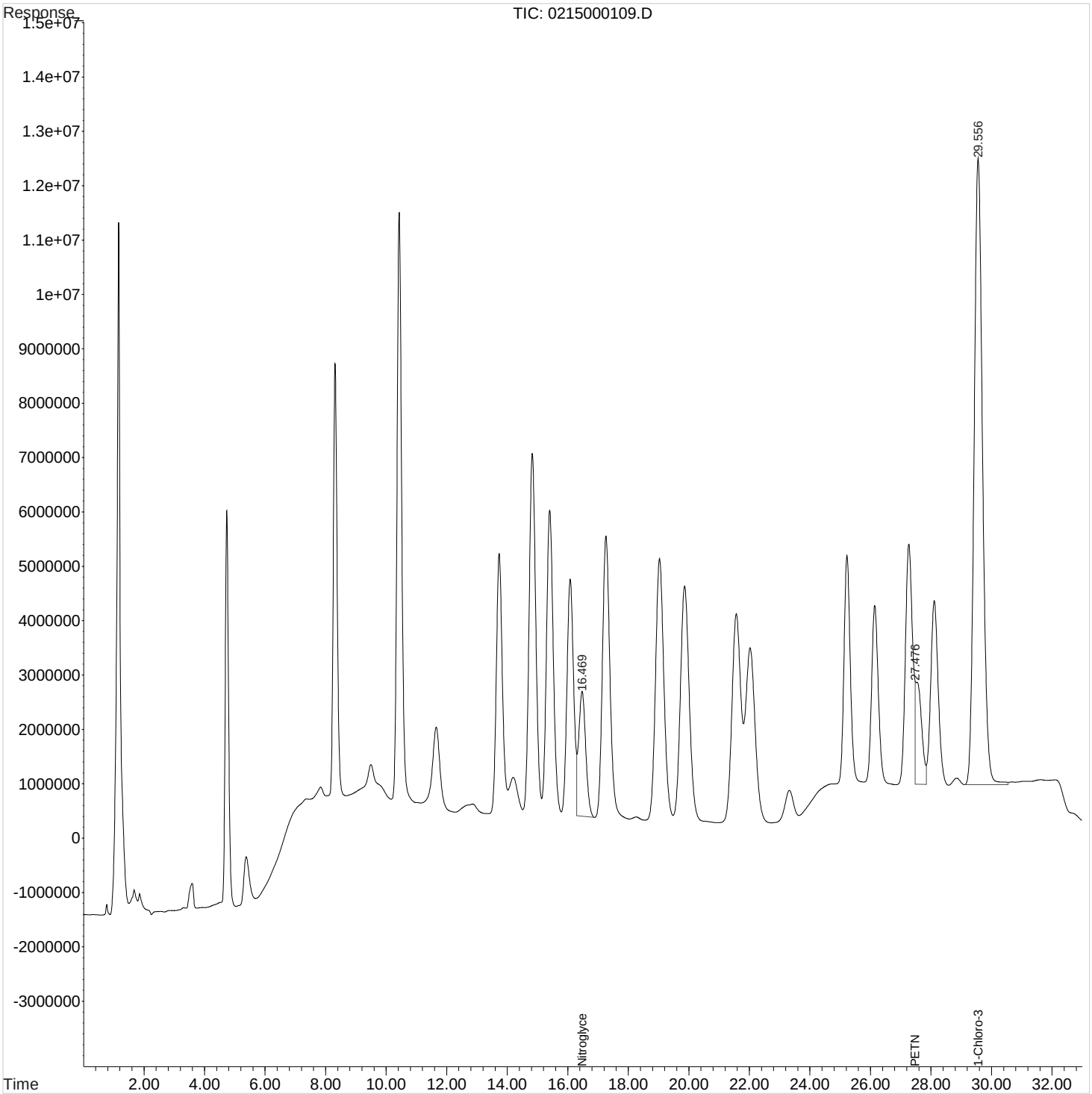
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-210\0215000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 21:32:10 Operator: AE
Sample : KWG1701217-2 DLCS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 13:19:10 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

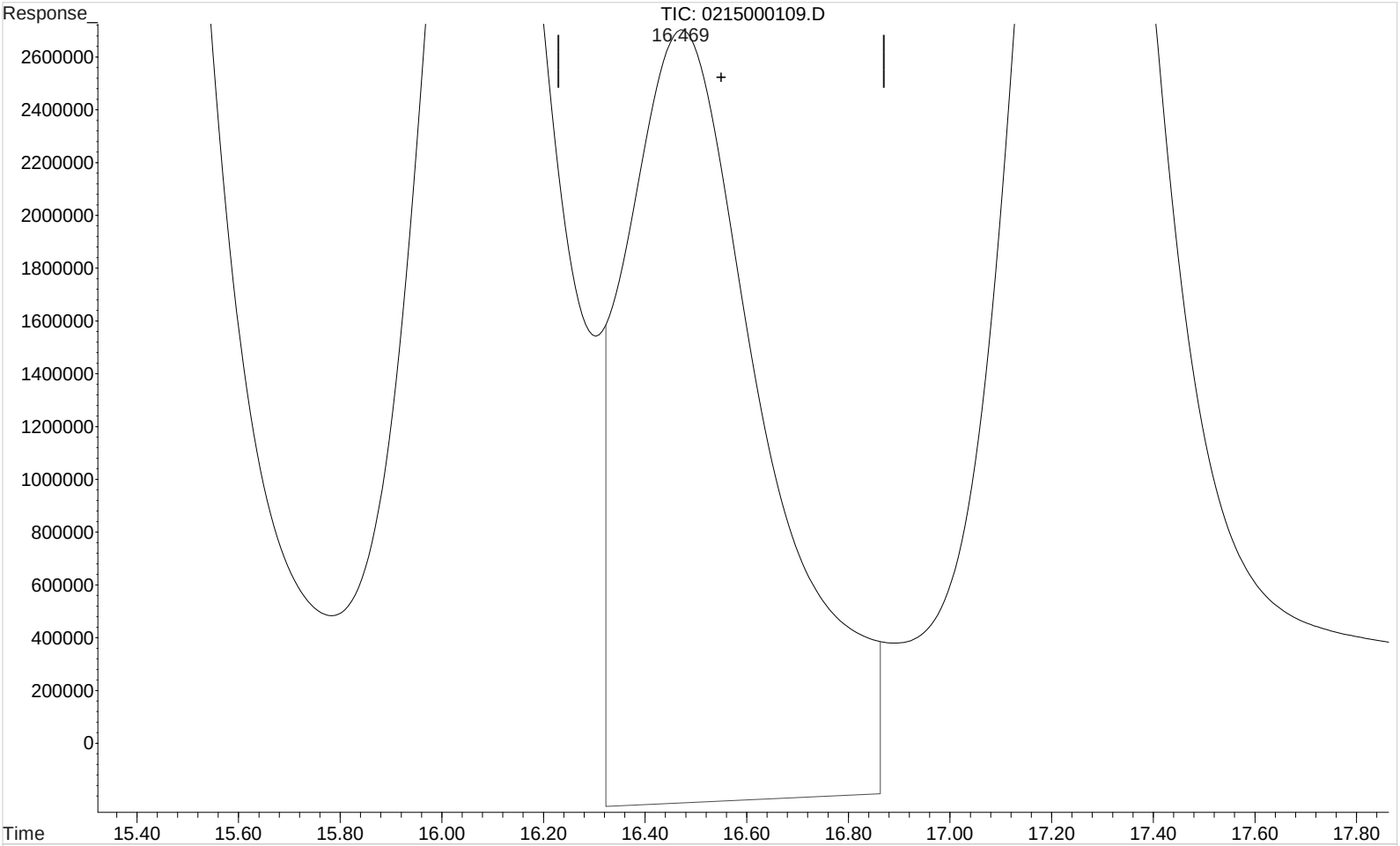


Quantitation Report (Qedit)

Data File : J:\LC10\Data\021517-210\0215000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 21:32:10 Operator: AE
Sample : KWG1701217-2 DLCS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 12:24:48 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.469min 2651.653 ug/L

response 55278181

Manual Integration:

Before

02/16/17

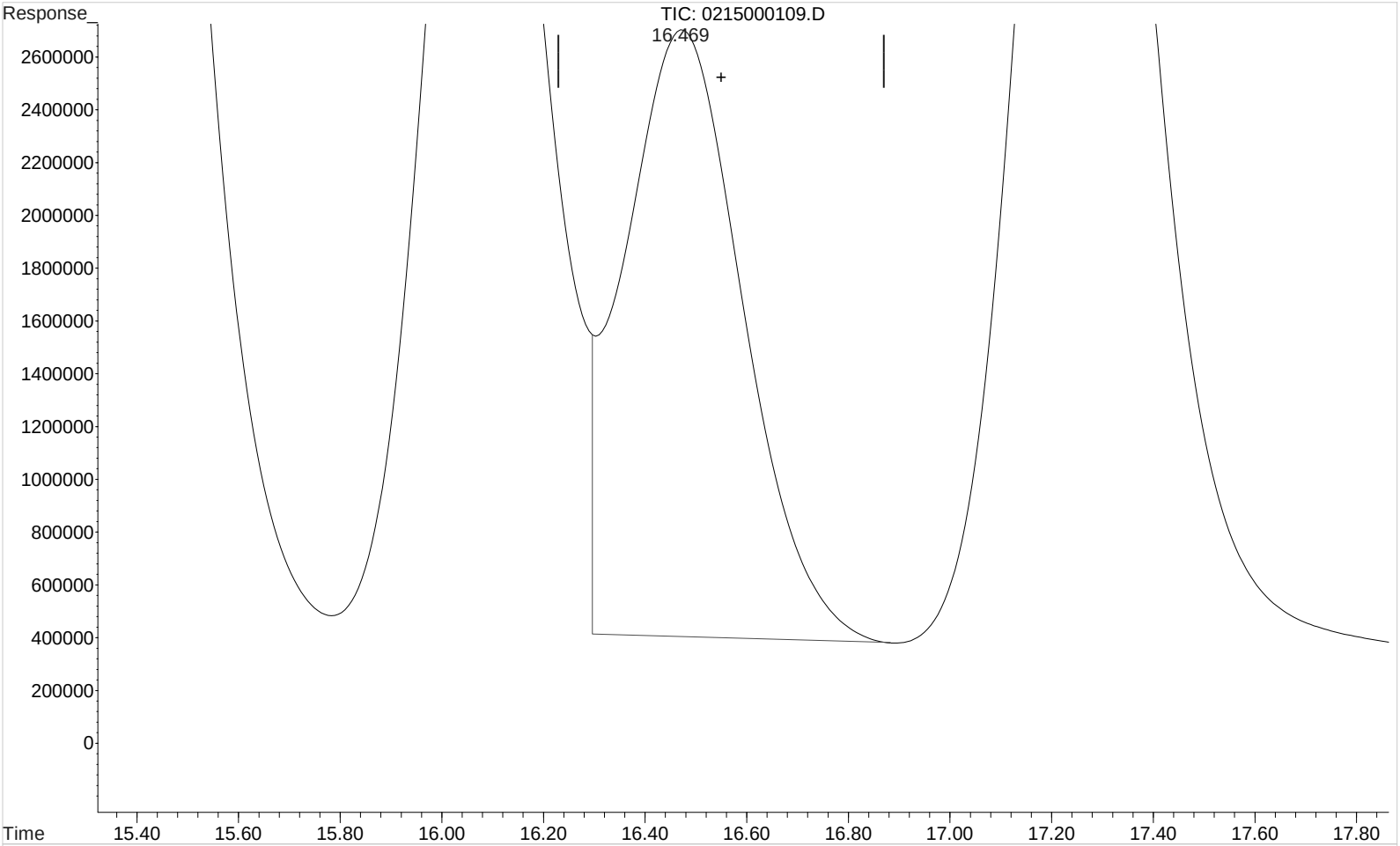
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\021517-210\0215000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 21:32:10 Operator: AE
Sample : KWG1701217-2 DLCS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 12:24:48 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.469min 1787.774 ug/L m

response 37269170

Manual Integration:

After

BLC

02/16/17

(+) = Expected Retention Time

(b) (6)

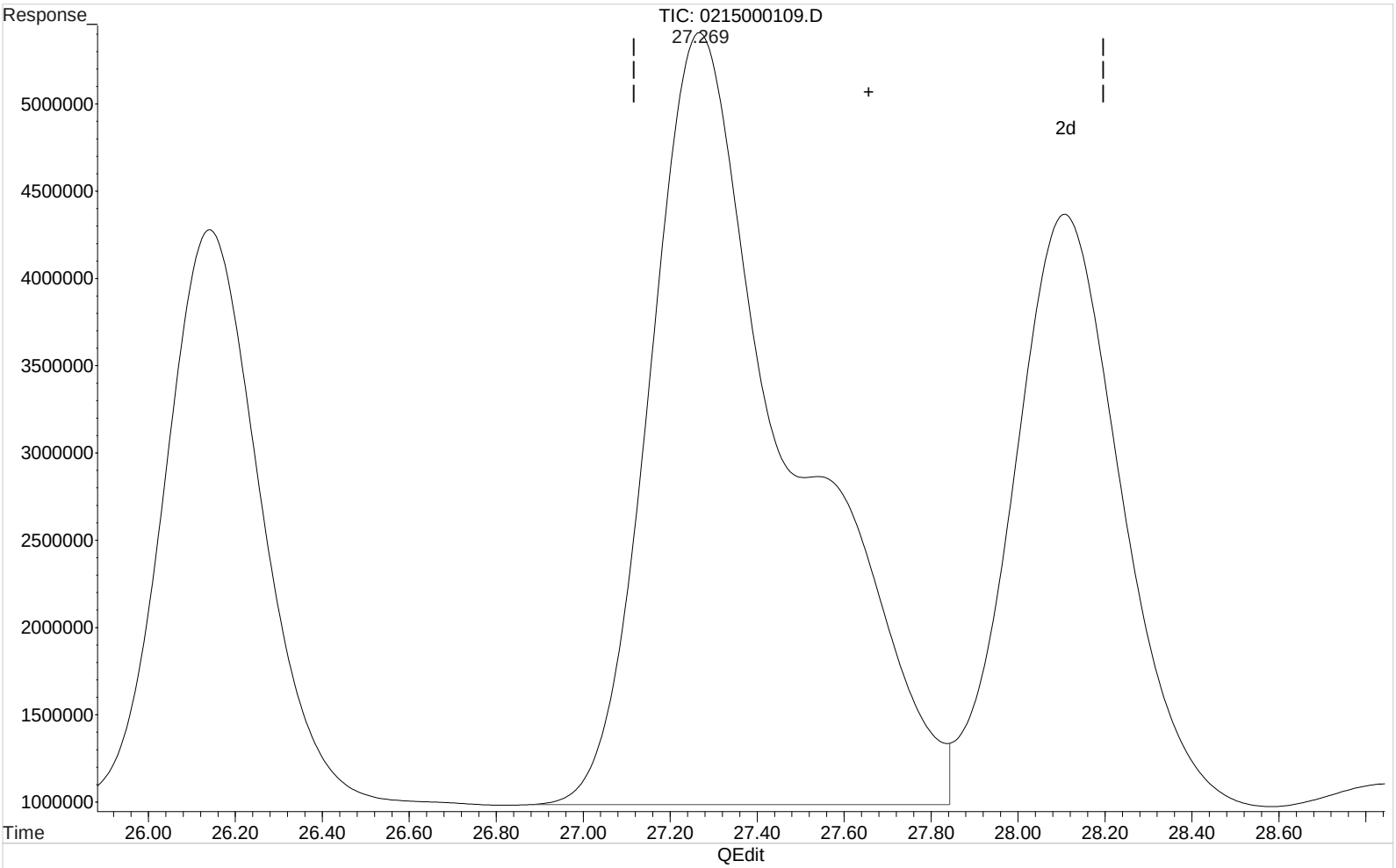
02/17/17

02/27/17

Data File : J:\LC10\Data\021517-210\0215000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 21:32:10 Operator: AE
Sample : KWG1701217-2 DLCS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 12:24:48 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.269min 5732.327 ug/L

response 100862994

Manual Integration:

Before

02/16/17

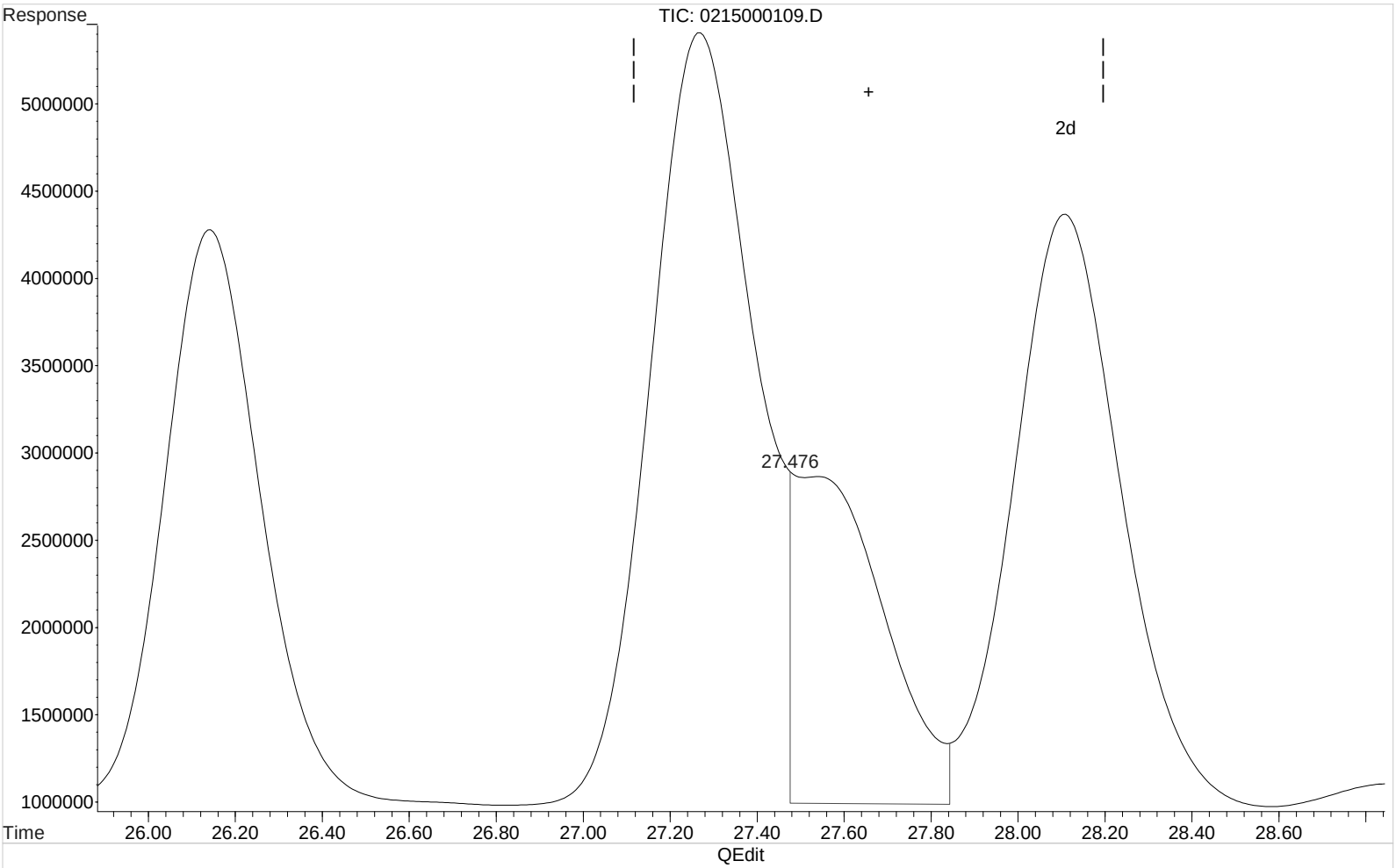
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\021517-210\0215000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 21:32:10 Operator: AE
Sample : KWG1701217-2 DLCS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 12:24:48 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.476min 1536.328 ug/L m

response 27032413

Manual Integration:

After

BLC

02/16/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000209.
Lab ID: KWG1701417-5
RunType: LCS
Matrix: SOIL

Date Acquired: 03/02/2017 16:49
Date Quantitated: 03/06/2017 16:31
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000209.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 16:49	**Quant Date:**	03/06/2017 16:31	**Vial:**	9
Run Type:	SRM	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701417-5			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**		**Receive Date:**	03/01/2017

Analysis Lot:	KWG1701858	**Prep Lot:**	KWG1701417	**Report Group:**	
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587781	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_254\03020000205.D	**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.58	0.04	137014658	6,341	127	34-135	OK	

Target Compounds

Final Conc. Units: mg/Kg Wet Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX	4.75		40155405	3,353	2.67		
2,4-Diamino-6-nitrotoluene			0				
RDX	8.32	0.01	61116276	3,077	2.45		
1,3,5-Trinitrobenzene	10.43	0.02	145108659	3,249	2.59		
1,3-Dinitrobenzene	13.76	0.05	200137045	3,320	2.65		
3,5-Dinitroaniline	14.88	0.07	142707579	2,989	2.38		
TETRYL	15.48	0.07	101100366	3,027	2.41		
Nitrobenzene	16.10	0.05	128192251	3,320	2.65		
2,4,6-Trinitrotoluene	17.32	0.05	138554676	3,326	2.65		
4-Amino-2,6-dinitrotoluene	19.10	0.07	85791651**m**	2,907	2.32		
2-Amino-4,6-dinitrotoluene	19.94	0.07	136015901	3,241	2.58		
2,6-Dinitrotoluene	21.62	0.05	89363090	3,653	2.91		
2,4-Dinitrotoluene	22.07	0.04	197096939	3,327	2.65		
2-Nitrotoluene	25.23	0.02	60512457	3,368	2.68		
4-Nitrotoluene	26.15	0.02	51893230	3,270	2.61		
3-Nitrotoluene	27.28	0.03	68321500**m**	3,393	2.70		

Prep Amount:	10.036 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000209.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 16:49:46 Operator: BR
Sample : KWG1701417-5 SRM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:31:49 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
18) S	1-Chloro-3-Nitrobenzene	29.584	137014658	6340.578	ug/L	
	Target Compounds					
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2) T	HMX	4.751	40155405	3353.270	ug/L	
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4) T	RDX	8.318	61116276	3077.316	ug/L	
5) T	1,3,5-TNB	10.431	145108659	3248.736	ug/L	
6) T	1,3-DNB	13.764	200137045	3319.998	ug/L	
7) T	3,5-Dinitroaniline	14.884	142707579	2989.097	ug/L	
8) T	Tetryl	15.478	101100366	3026.989	ug/L	
9) T	Nitrobenzene	16.098	128192251	3319.813	ug/L	
10) T	2,4,6-TNT	17.318	138554676	3326.319	ug/L	
11) T	4-Amino-2,6-DNT	19.104	85791651	2906.825	ug/L	m
12) T	2-Amino-4,6-DNT	19.944	136015901	3241.404	ug/L	
13) T	2,6-DNT	21.624	89363090	3653.029	ug/L	
14) T	2,4-DNT	22.071	197096939	3327.340	ug/L	
15) T	2-NT	25.231	60512457	3368.149	ug/L	
16) T	4-NT	26.151	51893230	3269.520	ug/L	
17) T	3-NT	27.278	68321500	3392.995	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] 03/14/17
03/29/17

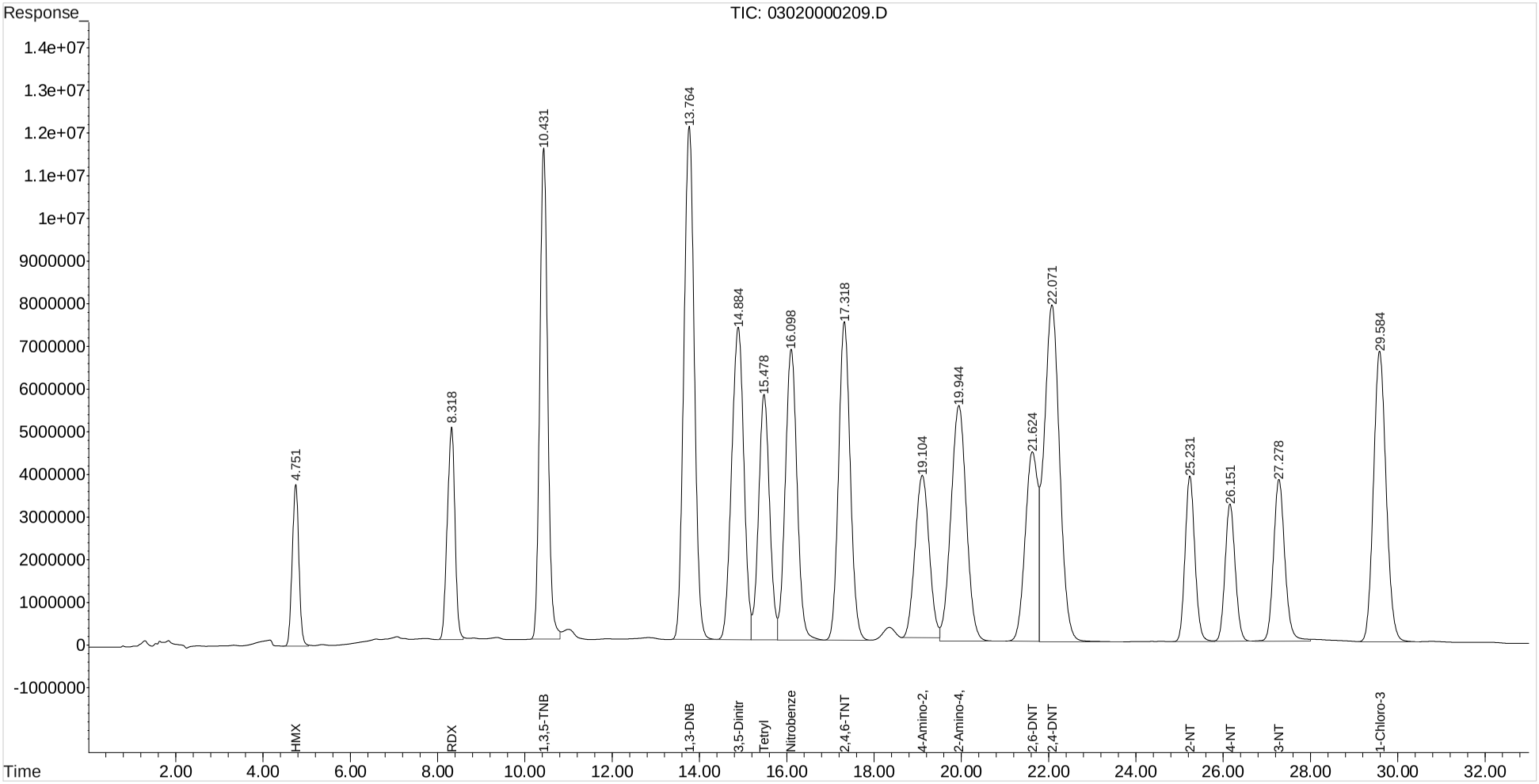
Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000209.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 16:49:46 Operator: BR
Sample : KWG1701417-5 SRM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:31:49 2017
Quant Results File: 120716_8330B@254.RES

11/01/2018

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



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012436

(b) (6)

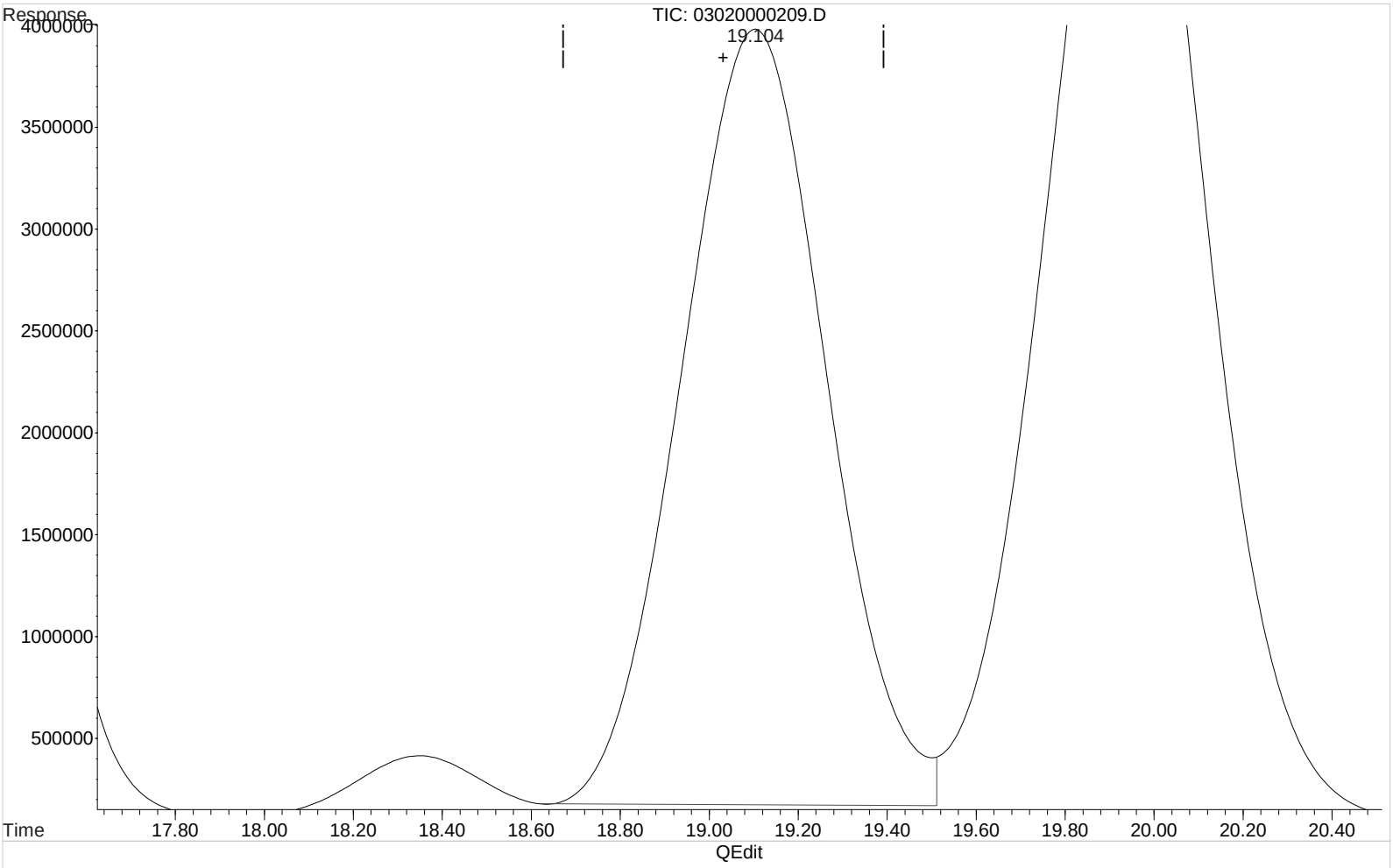
03/29/17

03/29/17

Data File: J:\LC10\Data\030317_8330_254\03020000209.D
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 16:49:46
Operator : BR
Sample : KWG1701417-5 SRM
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: RTEINT.P
Quant Time: Mar 06 16:14:36 2017
Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
Integrator: RTE

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(11) 4-Amino-2,6-DNT (T)

19.104min 2906.825 ug/L m

response 85791651

No Before

Manual Integration:

After

Baseline/Shoulder

03/29/17

(+) = Expected Retention Time

(b) (6)

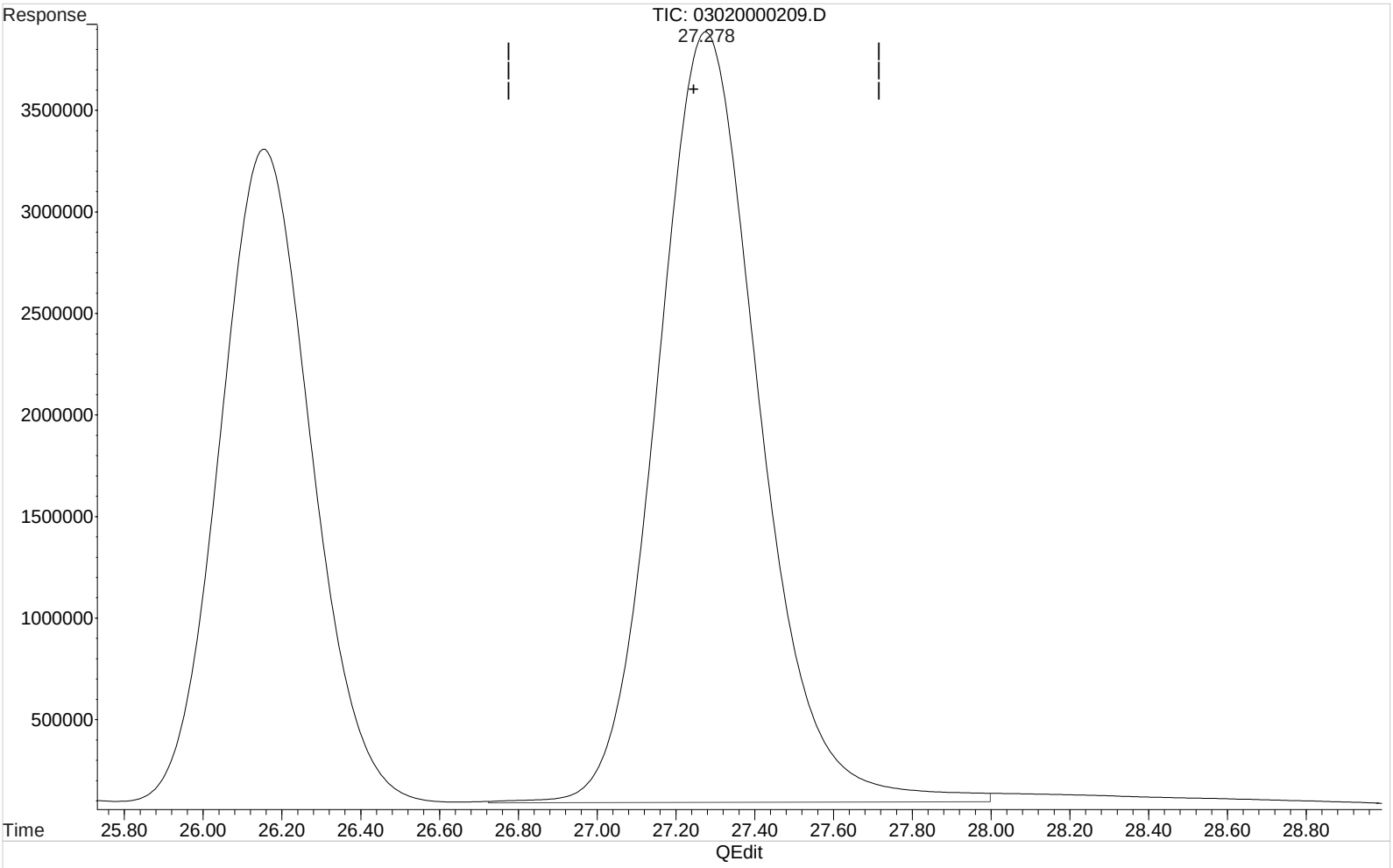
03/29/17

03/29/17

Data File: J:\LC10\Data\030317_8330_254\03020000209.D
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 16:49:46
Operator : BR
Sample : KWG1701417-5 SRM
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: RTEINT.P
Quant Time: Mar 06 16:14:36 2017
Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
Integrator: RTE

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.278min 3392.995 ug/L m

response 68321500

Manual Integration:

After

Baseline/Shoulder

03/29/17

No Before

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000209.
Lab ID: KWG1701417-5
RunType: LCS
Matrix: SOIL

Date Acquired: 03/02/2017 16:49
Date Quantitated: 03/06/2017 15:20
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000209.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 16:49	**Quant Date:**	03/06/2017 16:20	**Vial:**	9
Run Type:	SRM	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701417-5			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**		**Receive Date:**	03/01/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587781	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_210\03020000205.D	**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.58	0.04	362992789	6,384	128	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Wet Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.52	0.05	67875646**m**	3,256	2.60		
Pentaerythritol Tetranitrate	27.60	0.01	52749245**m**	2,998	2.39		

Prep Amount:	10.036 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000209.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 16:49	**Quant Date:**	03/06/2017 16:20	**Vial:**	9
Run Type:	SRM	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701417-5			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**		**Receive Date:**	03/01/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587781	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:	J:\LC10\DATA\030317_8330_210\03020000205.D	**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.58	0.04	362992789	6,384	128	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Wet Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.52	0.05	67875646**m**	3,256	2.60		
Pentaerythritol Tetranitrate	27.60	0.01	52749245**m**	2,998	2.39		

Prep Amount:	10.036 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000209.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 16:49:46 Operator: BR
Sample : KWG1701417-5 SRM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:20:45 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.584	362992789	6383.767	ug/L	
Target Compounds						
1) T	Nitroglycerin	16.524	67875646	3255.943	ug/L	m
2) T	PETN	27.598	52749245	2997.888	ug/L	m

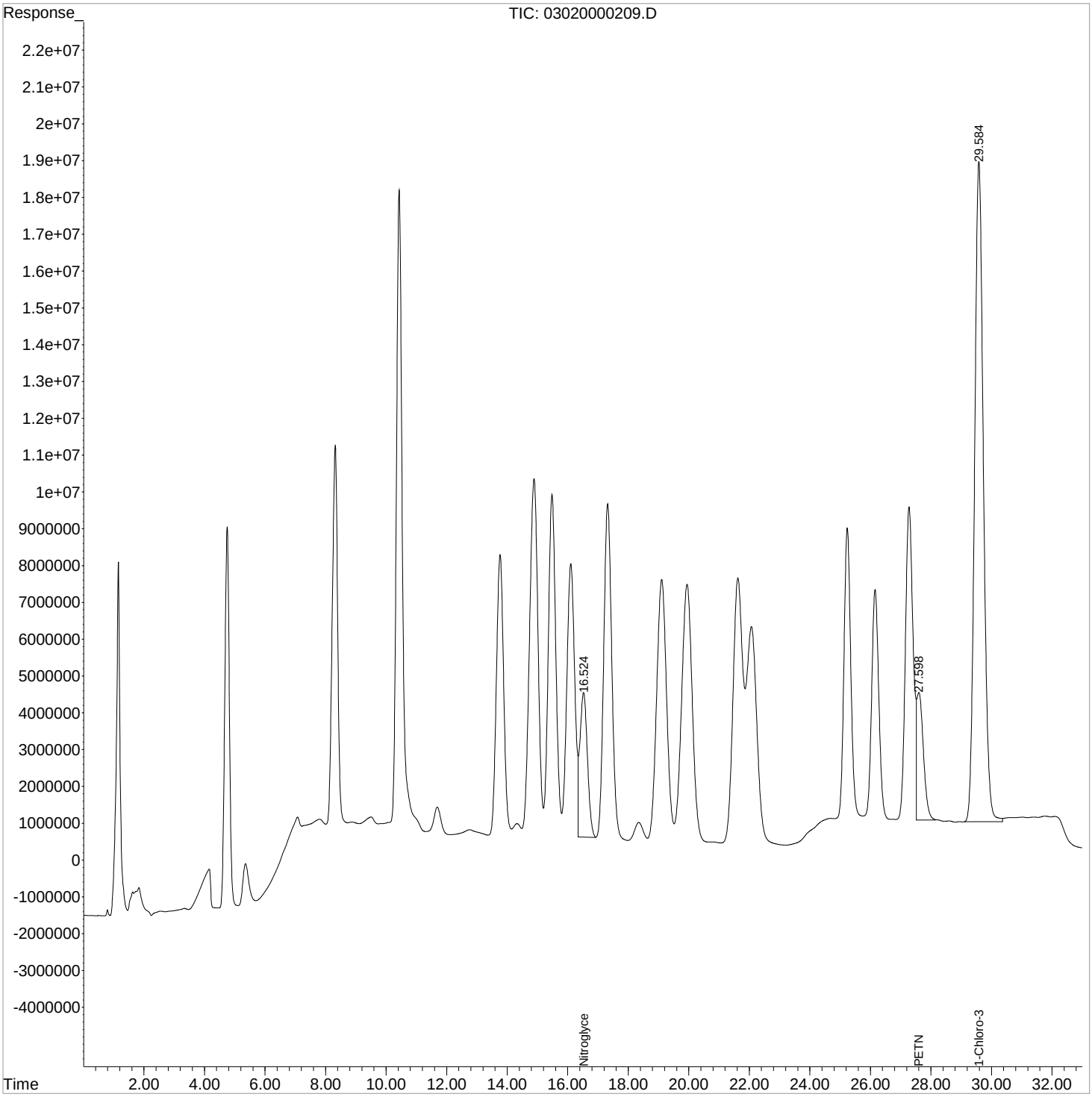
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000209.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 16:49:46 Operator: BR
Sample : KWG1701417-5 SRM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:20:45 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

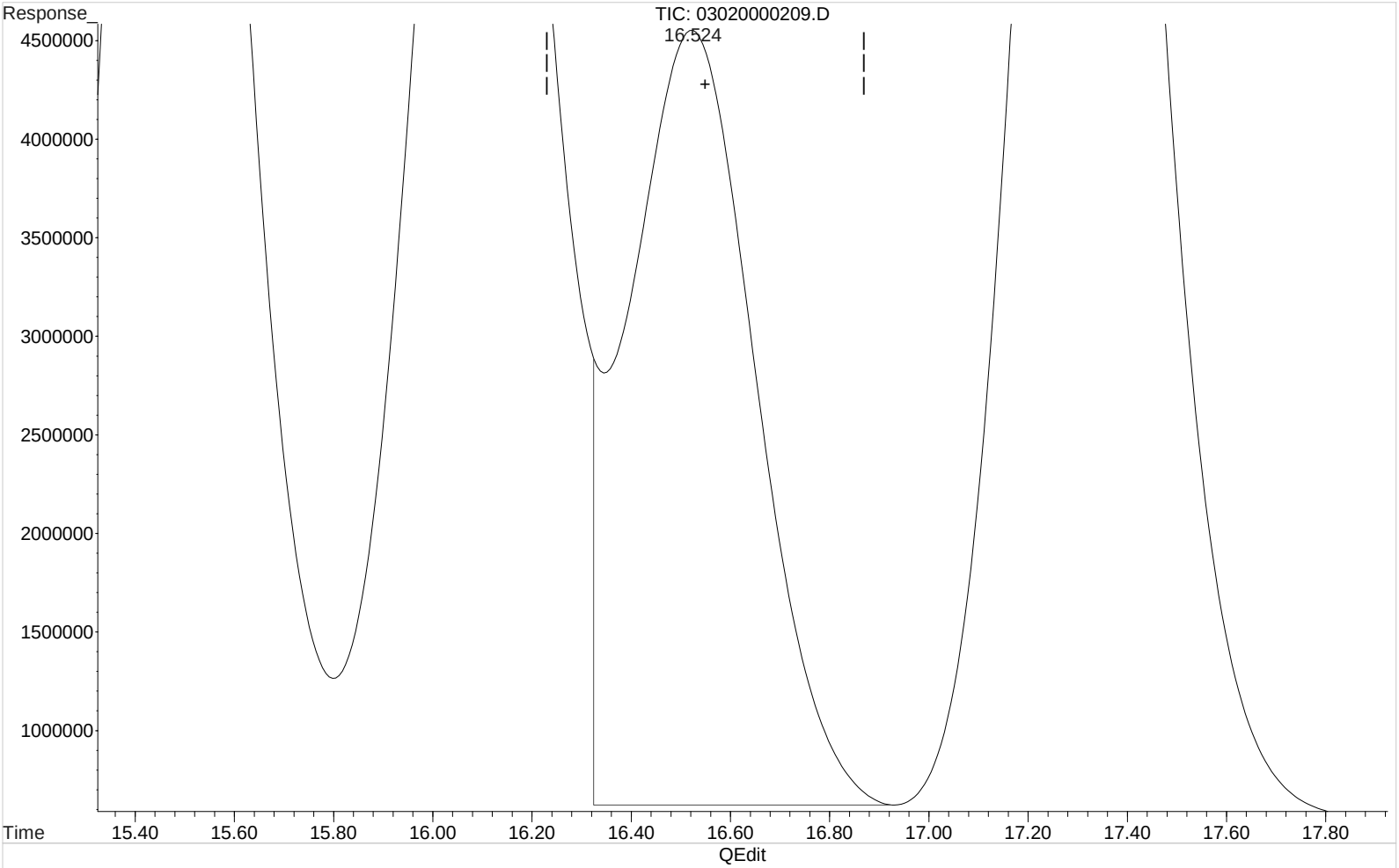


Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000209.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 16:49:46 Operator: BR
Sample : KWG1701417-5 SRM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 14:59:52 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.524min 3379.301 ug/L

response 70447250

Manual Integration:

Before

03/06/17

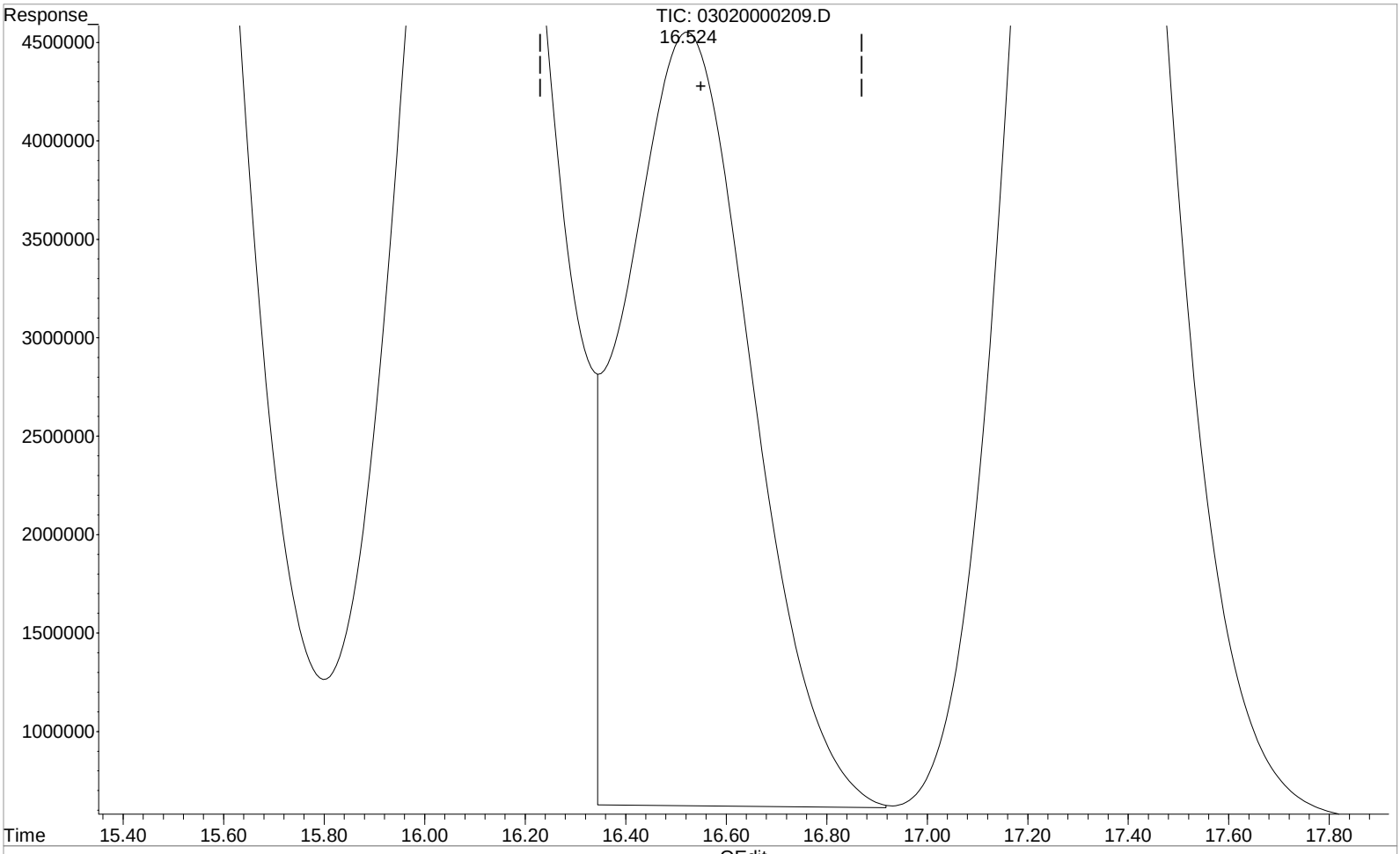
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000209.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 16:49:46 Operator: BR
Sample : KWG1701417-5 SRM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:20:45 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.524min 3255.943 ug/L m

response 67875646

Manual Integration:

After

BLC

03/14/17

(+) = Expected Retention Time

(b) (6)

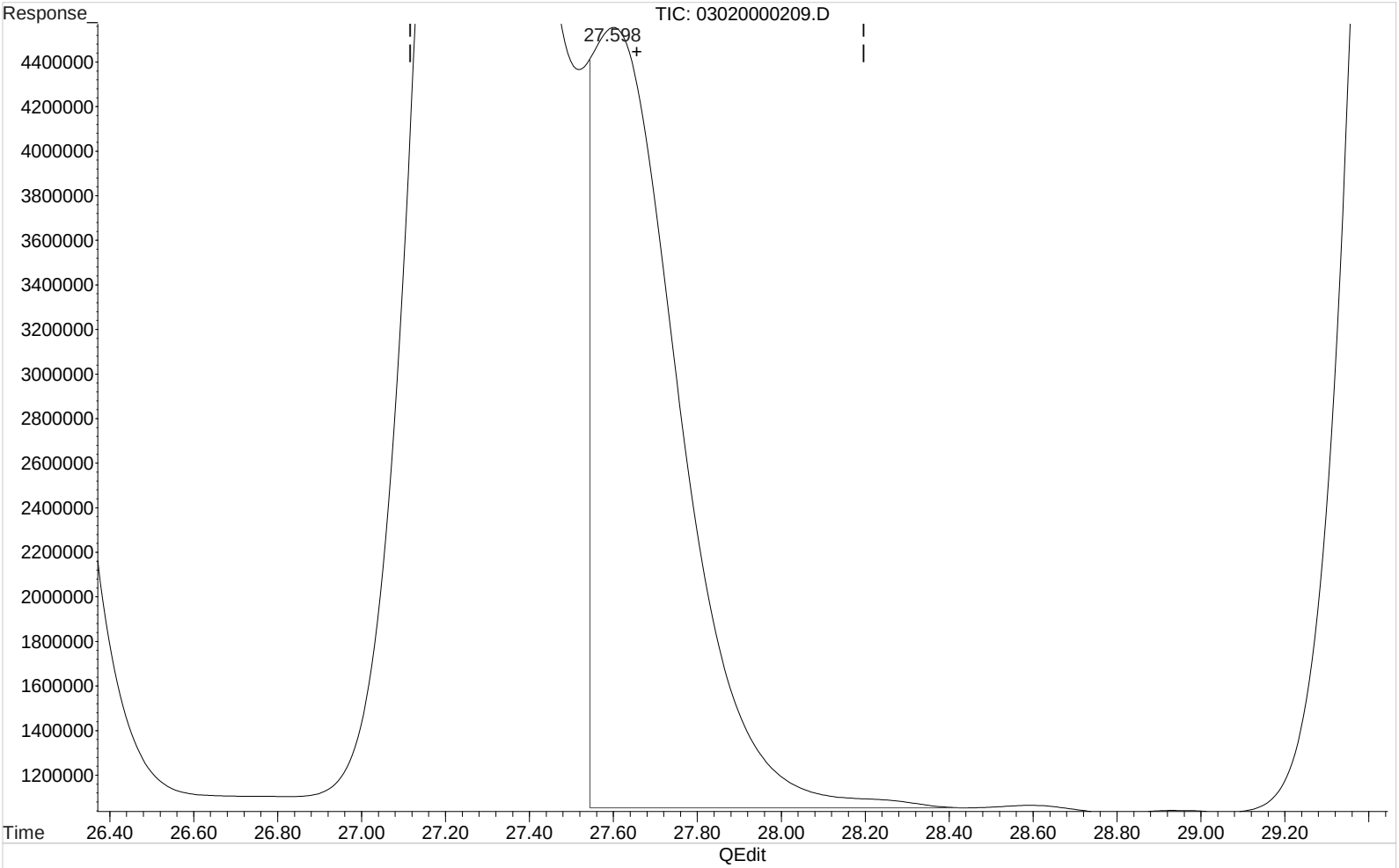
3/14/17

3/29/17

Data File : J:\LC10\Data\030317_8330_210\03020000209.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 16:49:46 Operator: BR
Sample : KWG1701417-5 SRM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 14:59:52 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.598min 2790.828 ug/L

response 49105939

Manual Integration:

Before

03/06/17

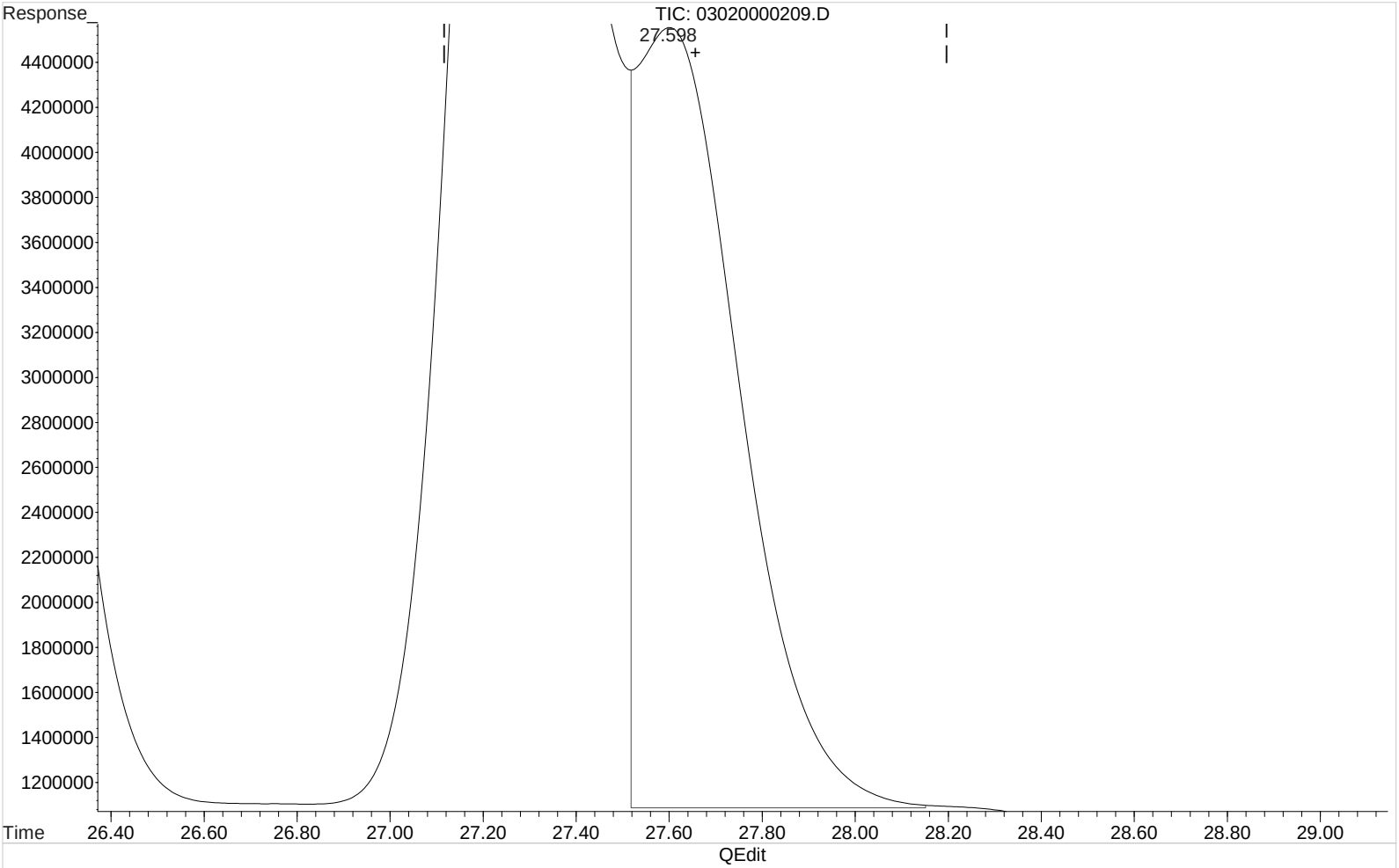
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000209.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 16:49:46 Operator: BR
Sample : KWG1701417-5 SRM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 14:59:52 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.598min 2997.888 ug/L m

response 52749245

Manual Integration:

After

BLC

03/06/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000206.
Lab ID: KWG1701417-8
RunType: LCS
Matrix: SOIL

Date Acquired: 03/02/2017 15:01
Date Quantitated: 03/06/2017 16:25
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000206.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 15:01	**Quant Date:**	03/06/2017 16:25	**Vial:**	6
Run Type:	LCS	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701417-8			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**		**Receive Date:**	03/01/2017

Analysis Lot:	KWG1701858	**Prep Lot:**	KWG1701417	**Report Group:**	
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587784	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_254\03020000205.D	**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.61	0.07	89530383	4,143	83	34-135	OK	

Target Compounds

Final Conc. Units: mg/Kg Wet Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX	4.76	0.01	28714749	2,398	1.92		
2,4-Diamino-6-nitrotoluene			0				
RDX	8.33	0.02	45022205	2,267	1.81		
1,3,5-Trinitrobenzene	10.44	0.03	106586090	2,386	1.91		
1,3-Dinitrobenzene	13.77	0.06	143059498	2,373	1.90		
3,5-Dinitroaniline	14.89	0.08	105609023	2,212	1.77		
TETRYL	15.47	0.06	80008369**m**	2,395	1.92		
Nitrobenzene	16.09	0.04	87425828**m**	2,264	1.81		
2,4,6-Trinitrotoluene	17.31	0.04	99857789	2,397	1.92		
4-Amino-2,6-dinitrotoluene	19.09	0.06	68670020	2,327	1.86		
2-Amino-4,6-dinitrotoluene	19.93	0.06	96599558	2,302	1.84		
2,6-Dinitrotoluene	21.64	0.07	65807135	2,690	2.15		
2,4-Dinitrotoluene	22.11	0.08	135974524	2,295	1.84		
2-Nitrotoluene	25.25	0.04	41351506	2,302	1.84		
4-Nitrotoluene	26.17	0.04	36107741	2,275	1.82		
3-Nitrotoluene	27.29	0.04	46075164	2,288	1.83		

Prep Amount:	10.000 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000206.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 15:01:09 Operator: BR
Sample : KWG1701417-8 LCS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:25:11 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
18) S	1-Chloro-3-Nitrobenzene	29.608	89530383	4143.165	ug/L	
	Target Compounds					
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2) T	HMX	4.761	28714749	2397.892	ug/L	
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4) T	RDX	8.334	45022205	2266.950	ug/L	
5) T	1,3,5-TNB	10.441	106586090	2386.281	ug/L	
6) T	1,3-DNB	13.768	143059498	2373.160	ug/L	
7) T	3,5-Dinitroaniline	14.888	105609023	2212.045	ug/L	
8) T	Tetryl	15.468	80008369	2395.485	ug/L	m
9) T	Nitrobenzene	16.094	87425828	2264.079	ug/L	m
10) T	2,4,6-TNT	17.308	99857789	2397.313	ug/L	
11) T	4-Amino-2,6-DNT	19.094	68670020	2326.703	ug/L	
12) T	2-Amino-4,6-DNT	19.934	96599558	2302.071	ug/L	
13) T	2,6-DNT	21.641	65807135	2690.097	ug/L	
14) T	2,4-DNT	22.108	135974524	2295.487	ug/L	
15) T	2-NT	25.248	41351506	2301.642	ug/L	
16) T	4-NT	26.168	36107741	2274.959	ug/L	
17) T	3-NT	27.288	46075164	2288.193	ug/L	

(f)=RT Delta > 1/2 Window (m)=manual int.

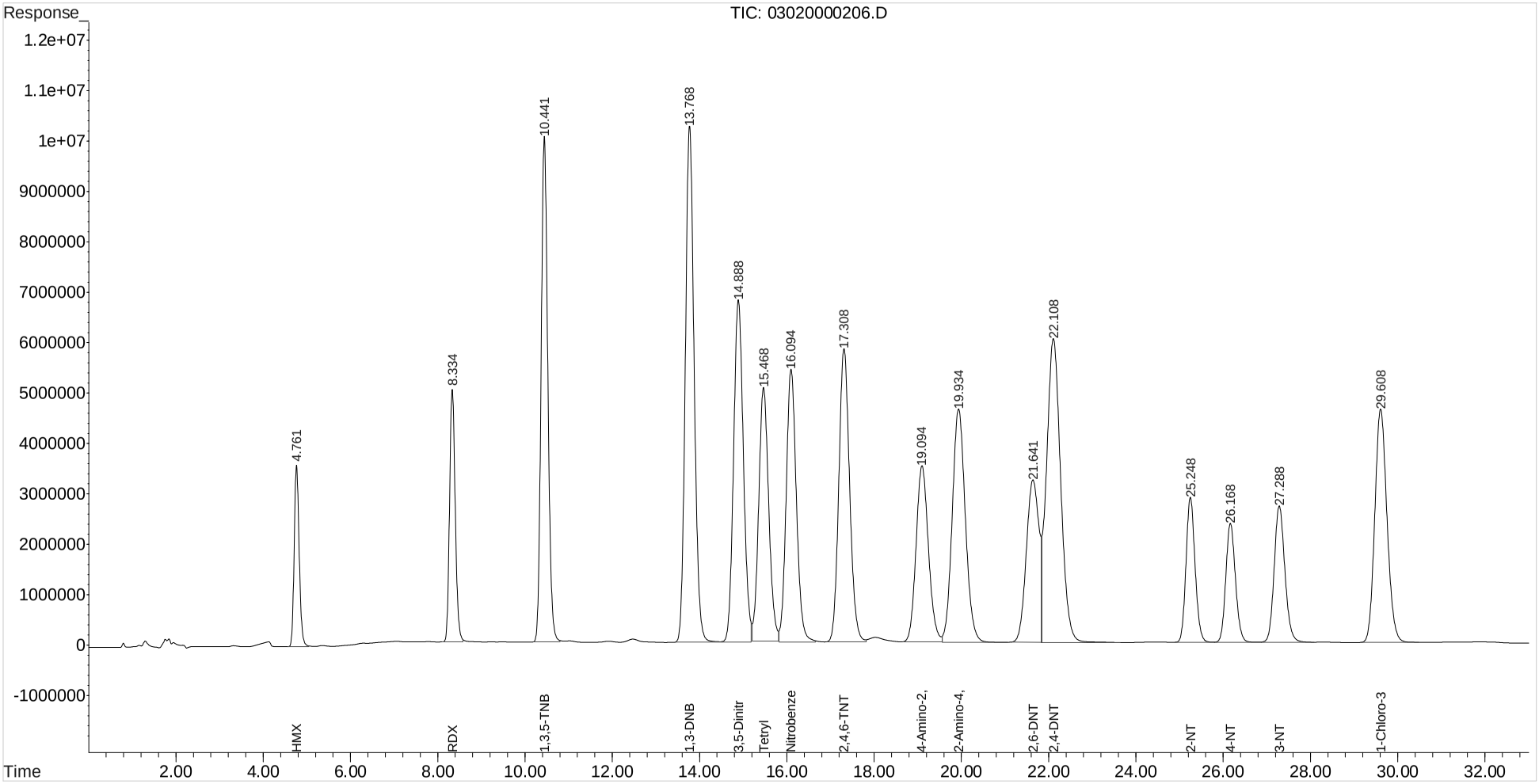
[redacted] 3/14/17
(9) (g) 3/29/17

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000206.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 15:01:09 Operator: BR
Sample : KWG1701417-8 LCS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:25:11 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(b) (6)

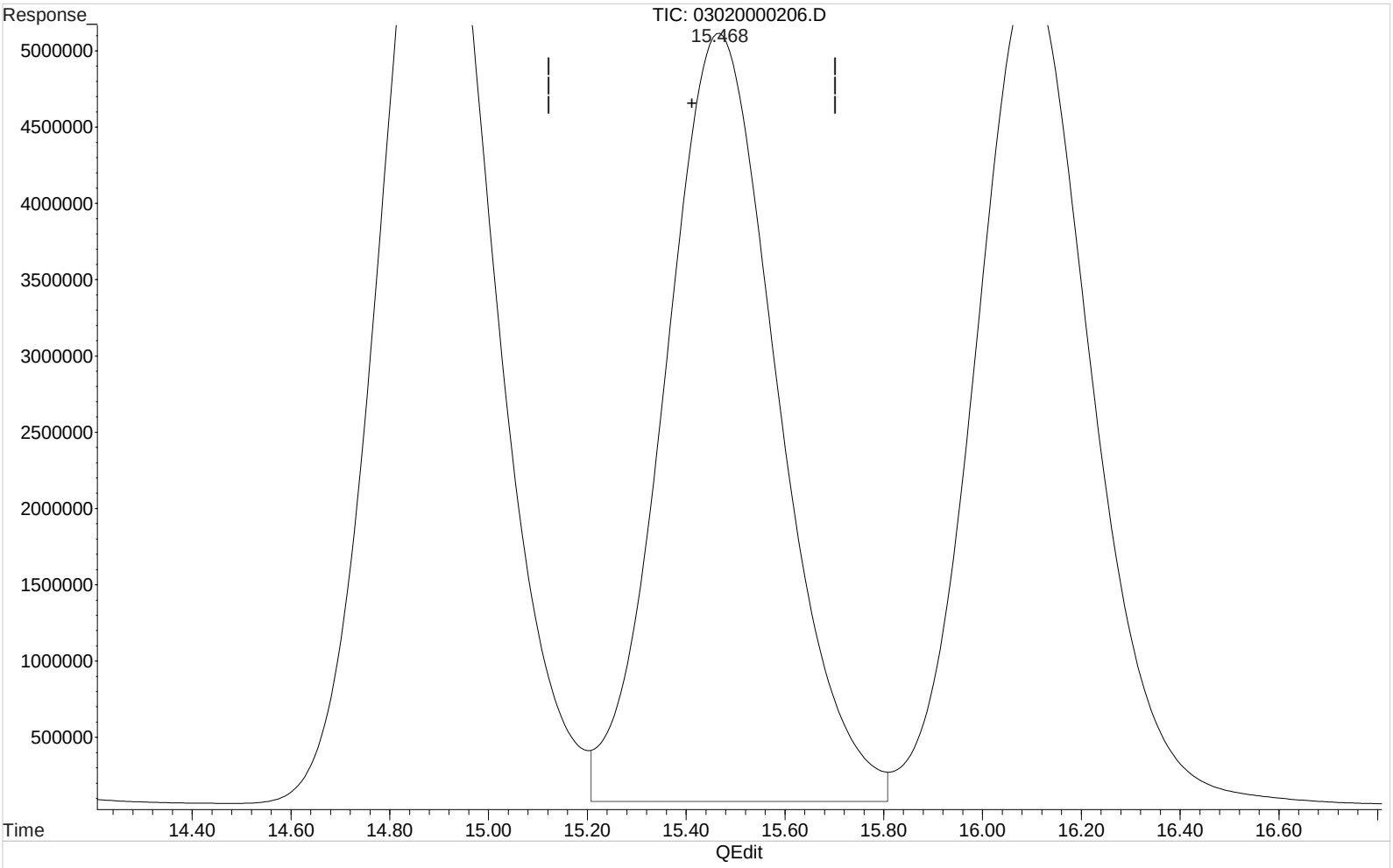
03/29/17

03/29/17

Data File: J:\LC10\Data\030317_8330_254\03020000206.D
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 15:01:09
Operator : BR
Sample : KWG1701417-8 LCS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: RTEINT.P
Quant Time: Mar 06 16:14:30 2017
Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
Integrator: RTE

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(8) Tetryl (T)

15.468min 2395.485 ug/L m

response 80008369

Manual Integration:

After

Baseline/Shoulder

03/29/17

No Before

(+) = Expected Retention Time

(b) (6)

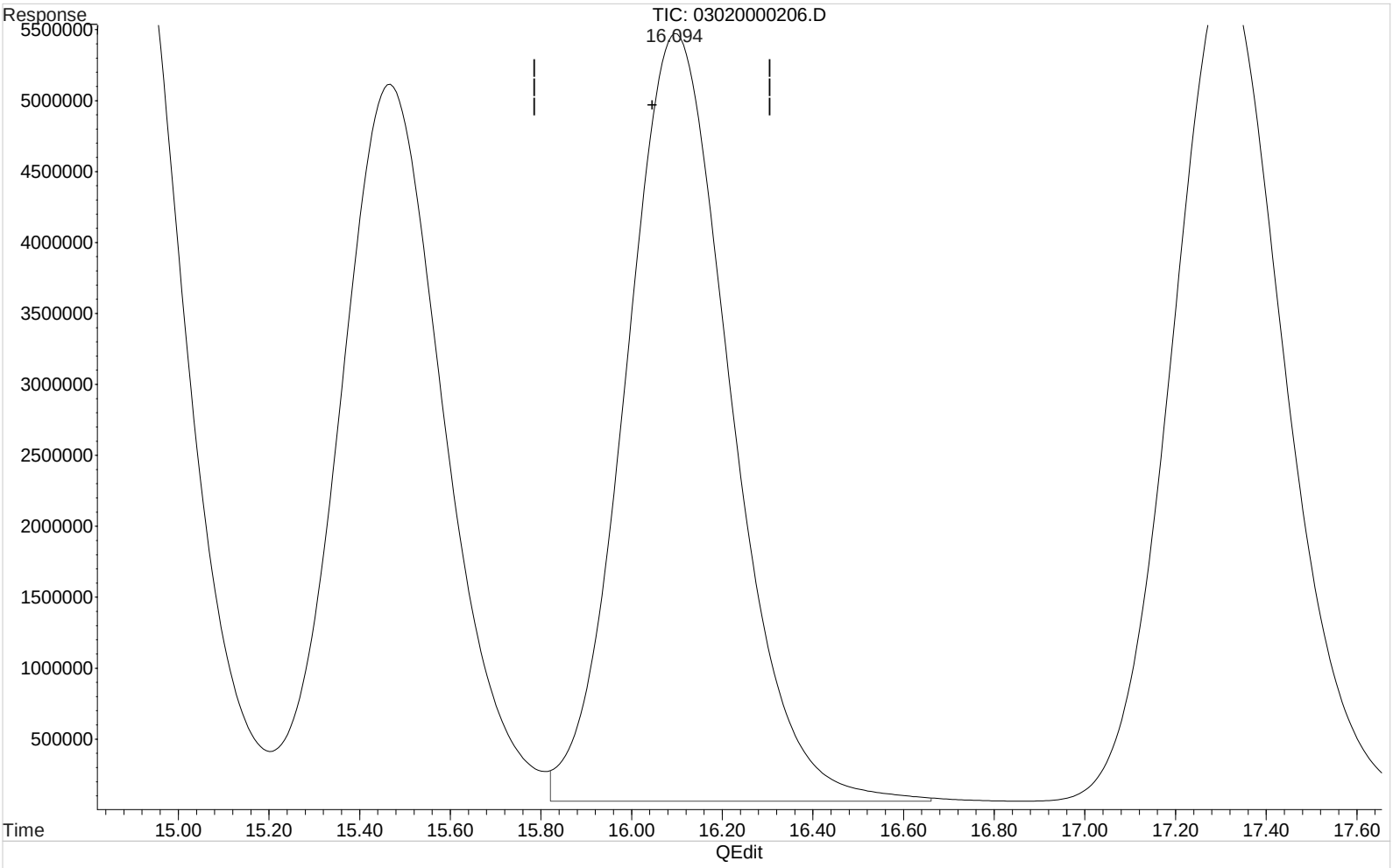
03/29/17

03/29/17

Data File: J:\LC10\Data\030317_8330_254\03020000206.D
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 15:01:09
Operator : BR
Sample : KWG1701417-8 LCS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: RTEINT.P
Quant Time: Mar 06 16:14:30 2017
Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
Integrator: RTE

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.094min 2264.079 ug/L m

response 87425828

No Before

Manual Integration:

After

Baseline/Shoulder

03/29/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000206.
Lab ID: KWG1701417-8
RunType: LCS
Matrix: SOIL

Date Acquired: 03/02/2017 15:01
Date Quantitated: 03/06/2017 15:10
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
Analytical Holding Time	NA	NA	NA	x	
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Calibration Verification Pass/Fail	NA	NA	NA	x	
Continuing Calibration Recovery	NA	NA	NA	x	
Continuing Calibration Recovery (Closing)	NA	NA	NA	x	
Surrogates	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Retention Time	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Std MRL Unsupported by ICAL	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	
Overdiluted Analysis	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000206.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 15:01	**Quant Date:**	03/06/2017 15:10	**Vial:**	6
Run Type:	LCS	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701417-8			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**		**Receive Date:**	03/01/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587784	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1277
MB Ref:	J:\LC10\DATA\030317_8330_210\03020000205.D	**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.61	0.07	239095910**m**	4,205	84	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Wet Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.51	0.04	52661735	2,526	2.02		
Pentaerythritol Tetranitrate	27.60	0.01	35375622**m**	2,010	1.61		

Prep Amount:	10.000 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000206.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 15:01	**Quant Date:**	03/06/2017 15:10	**Vial:**	6
Run Type:	LCS	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701417-8			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B Fire Rang	**Collect Date:**		**Receive Date:**	03/01/2017

Analysis Lot:	KWG1701860	**Prep Lot:**	KWG1701417	**Report Group:**	
Analysis Method:	8330B	**Prep Method:**	METHOD		
Prep Ref:	1587784	**Prep Date:**	02/21/2017		

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:	J:\LC10\DATA\030317_8330_210\03020000205.D	**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.61	0.07	239095910**m**	4,205	84	34-135	OK	NR

Target Compounds

Final Conc. Units: mg/Kg Wet Weight

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.51	0.04	52661735	2,526	2.02		
Pentaerythritol Tetranitrate	27.60	0.01	35375622**m**	2,010	1.61		

Prep Amount:	10.000 g	**Dilution:**	1.0
Prep Final Vol:	8 ml	**Unit Factor:**	0.001
Solids:	%		

Final Concentration = ((Soln Conc x Prep Final Vol x Dilution) / (Prep Amount x Solids)) x Unit Factor

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000206.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 15:01:09 Operator: BR
Sample : KWG1701417-8 LCS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:10:24 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.608	239095910	4204.856	ug/L	m
Target Compounds						
1) T	Nitroglycerin	16.508	52661735	2526.144	ug/L	
2) T	PETN	27.601	35375622	2010.496	ug/L	m

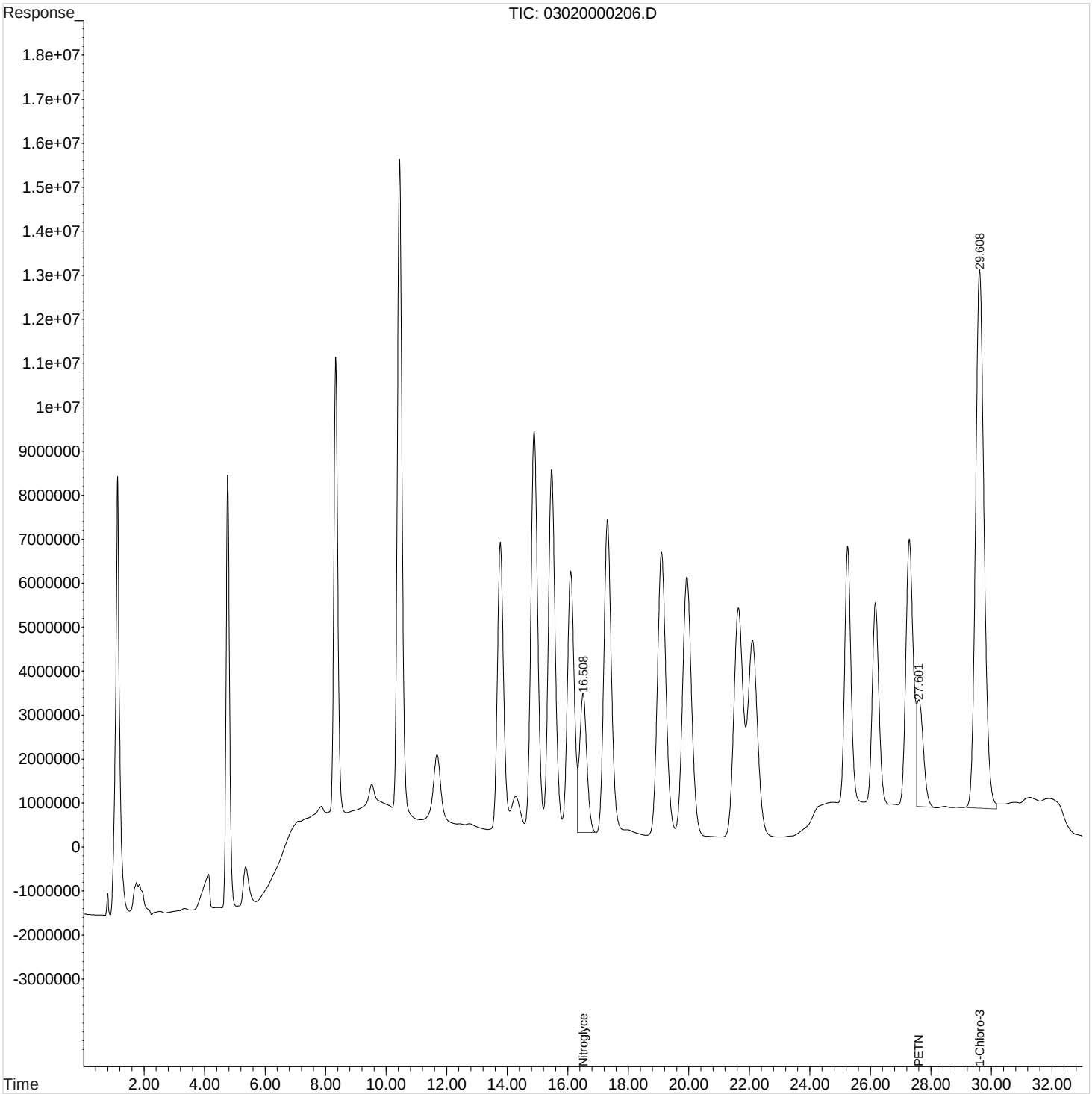
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000206.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 15:01:09 Operator: BR
Sample : KWG1701417-8 LCS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:10:24 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

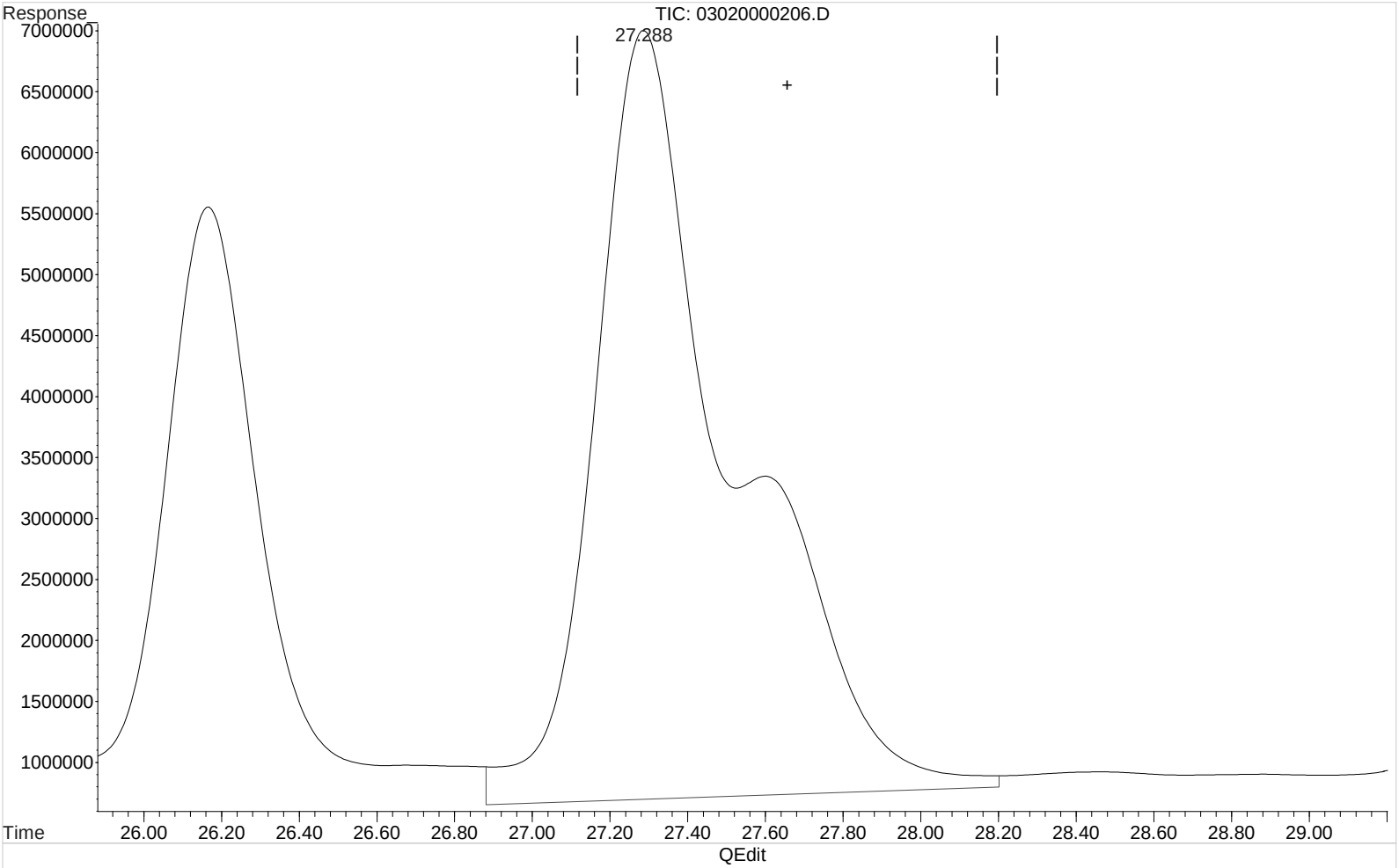


Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000206.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 15:01:09 Operator: BR
Sample : KWG1701417-8 LCS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 14:44:39 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.288min 8898.777 ug/L

response 156578168

Manual Integration:

Before

03/06/17

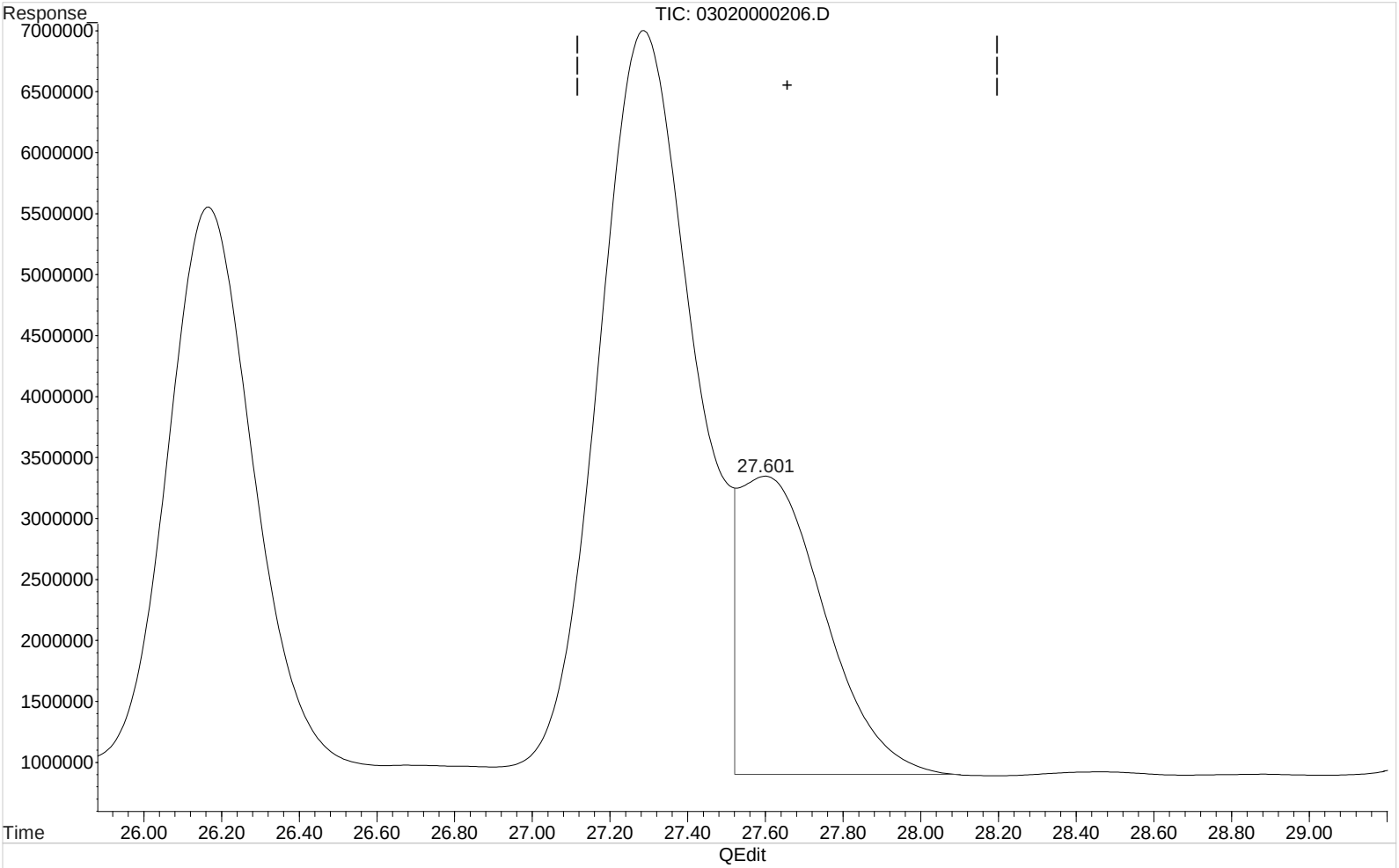
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000206.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 15:01:09 Operator: BR
Sample : KWG1701417-8 LCS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 14:44:39 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.601min 2084.709 ug/L m

response 36681428

Manual Integration:

After

BLC

03/06/17

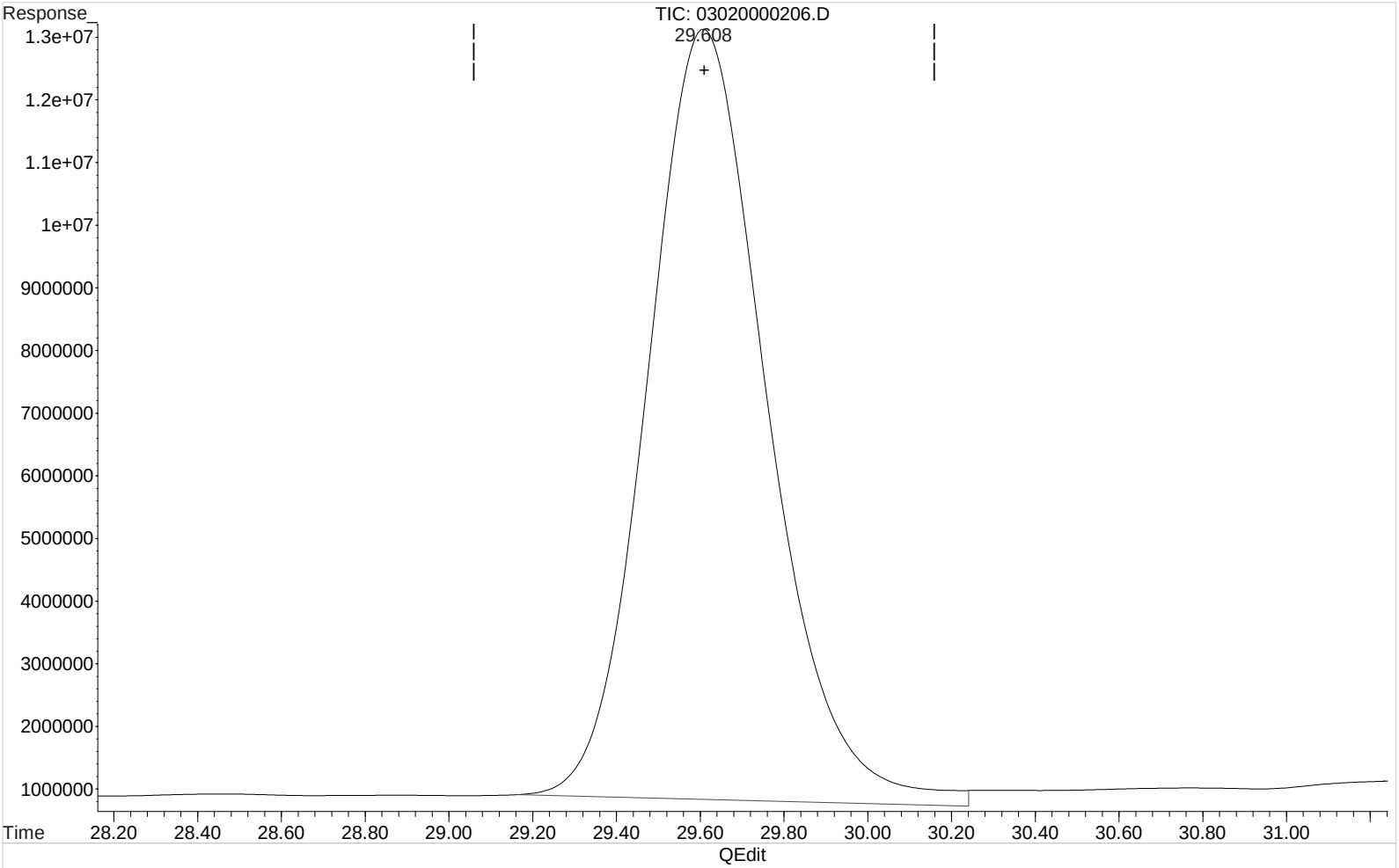
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000206.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 15:01:09 Operator: BR
Sample : KWG1701417-8 LCS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 14:44:39 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.608min 4283.888 ug/L

response 243589790

Manual Integration:

Before

03/06/17

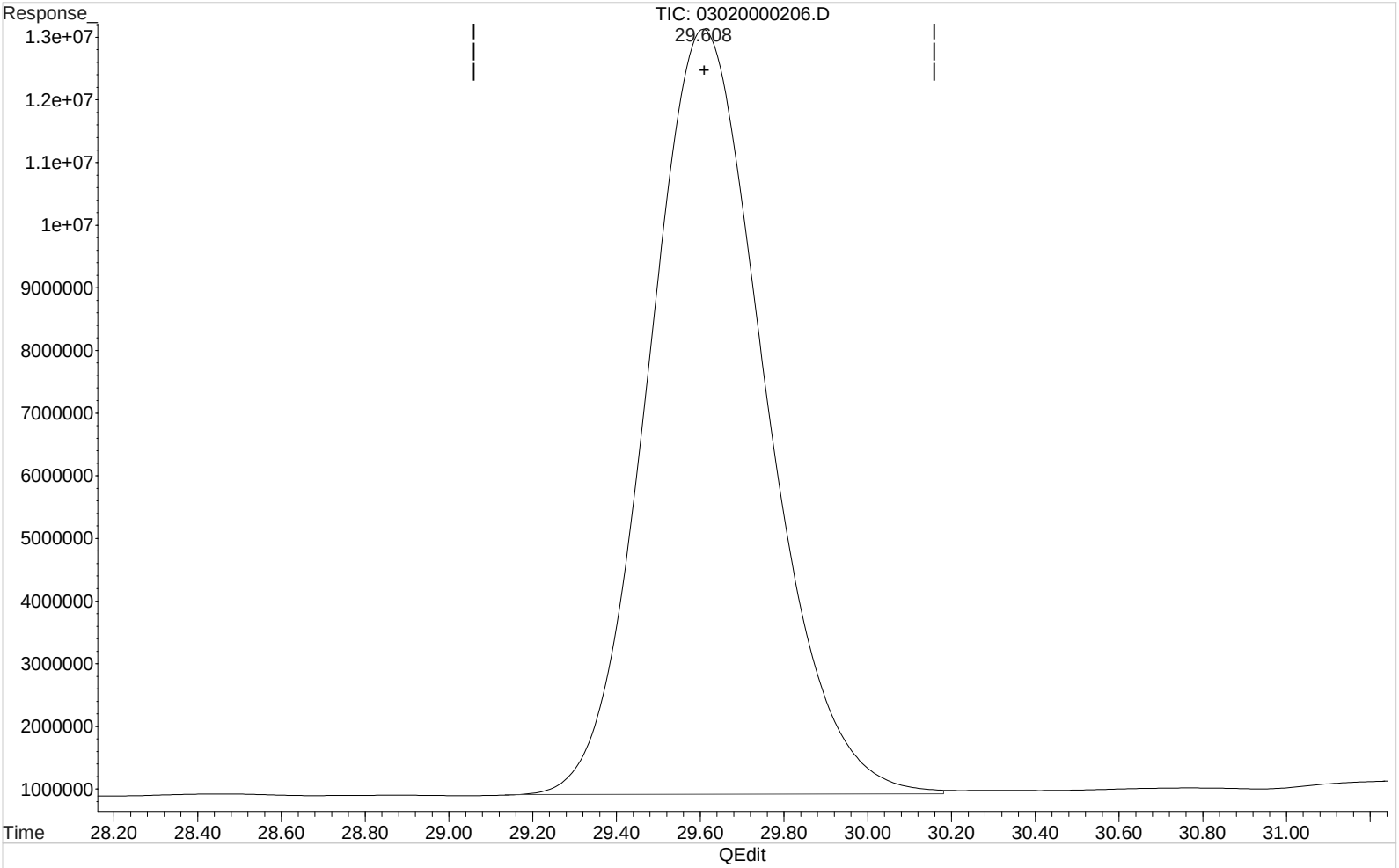
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000206.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 15:01:09 Operator: BR
Sample : KWG1701417-8 LCS Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 14:44:39 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.608min 4167.085 ug/L m

response 236948148

Manual Integration:

After

BLC

03/06/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\021517-210\0215000104.D
Lab ID: KWG1701307-2
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 02/15/2017 18:31
Date Quantitated: 02/16/2017 12:24
Batch ID: KWG1701307
Analysis Method: 8330B
MethodJoinID: MJ1278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\021517-210\0215000104.D			**Instrument:**	LC10
Acqu Date:	02/15/2017 18:31	**Quant Date:**	02/16/2017 12:24	**Vial:**	2
Run Type:	CCV	**MethodJoinID:**	MJ1278	**Dilution:**	1.0
Lab ID:	KWG1701307-2			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701307	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1278
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.53		52286347**m**	919.53		23-98	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.45		21467037	1,030			
Pentaerythritol Tetranitrate	27.47		14672036**m**	833.85			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\021517-210\0215000104.D			**Instrument:**	LC10
Acqu Date:	02/15/2017 18:31	**Quant Date:**	02/16/2017 12:24	**Vial:**	2
Run Type:	CCV	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701307-2			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701307	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.53		52286347**m**	919.53		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.45		21467037	1,030			
Pentaerythritol Tetranitrate	27.47		14672036**m**	833.85			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-210\0215000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 18:31:08 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 12:24:15 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	29.528	52286347	919.533 ug/L m
Target Compounds				
1) T	Nitroglycerin	16.454	21467037	1029.758 ug/L
2) T	PETN	27.468	14672036	833.853 ug/L m

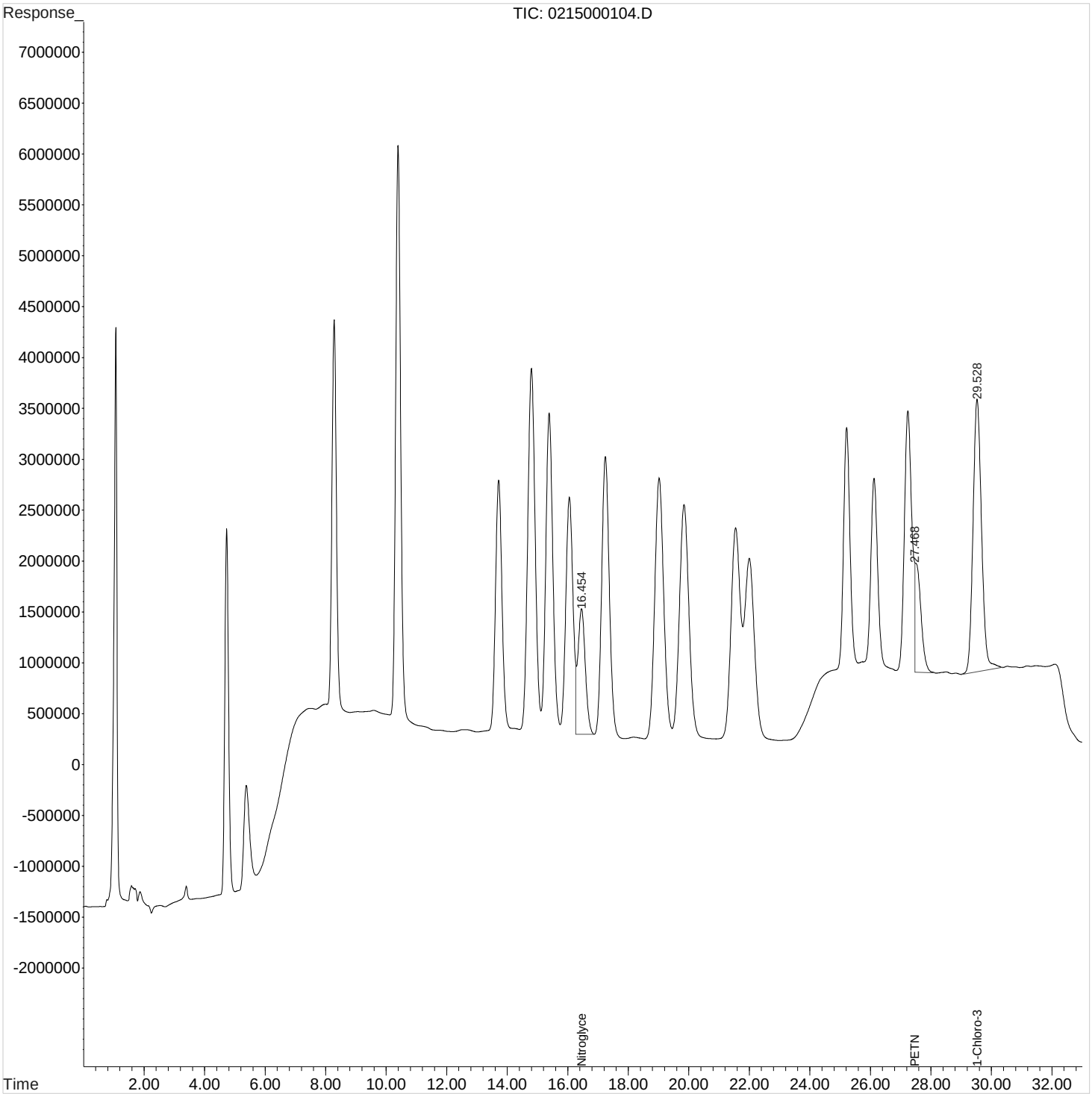
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-210\0215000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 18:31:08 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 12:24:15 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(b) (6)

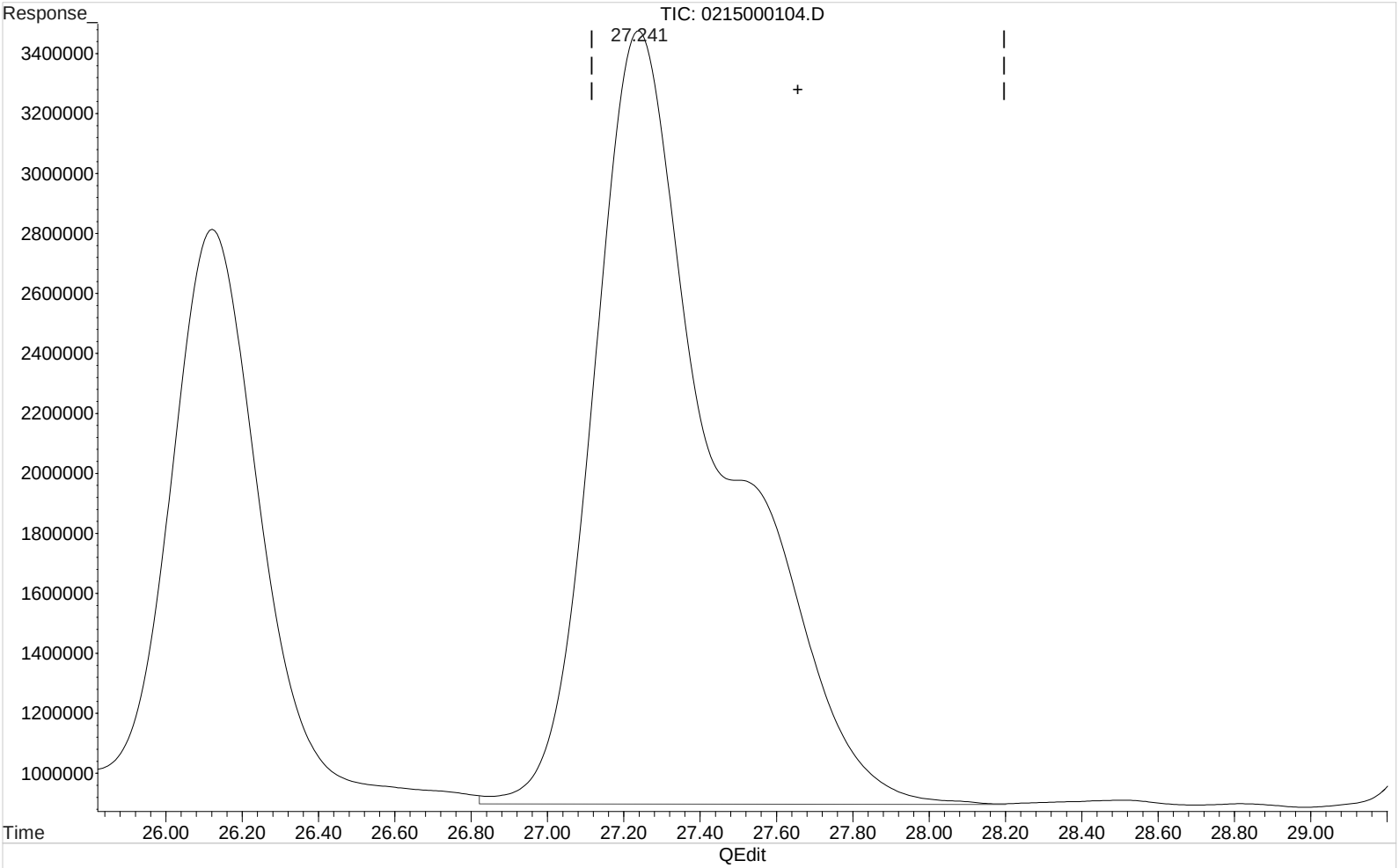
2/17/17

2/27/17

Data File : J:\LC10\Data\021517-210\0215000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 18:31:08 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 12:23:44 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.241min 3418.525 ug/L

response 60150560

Manual Integration:

Before

02/16/17

(+) = Expected Retention Time

(b) (6)

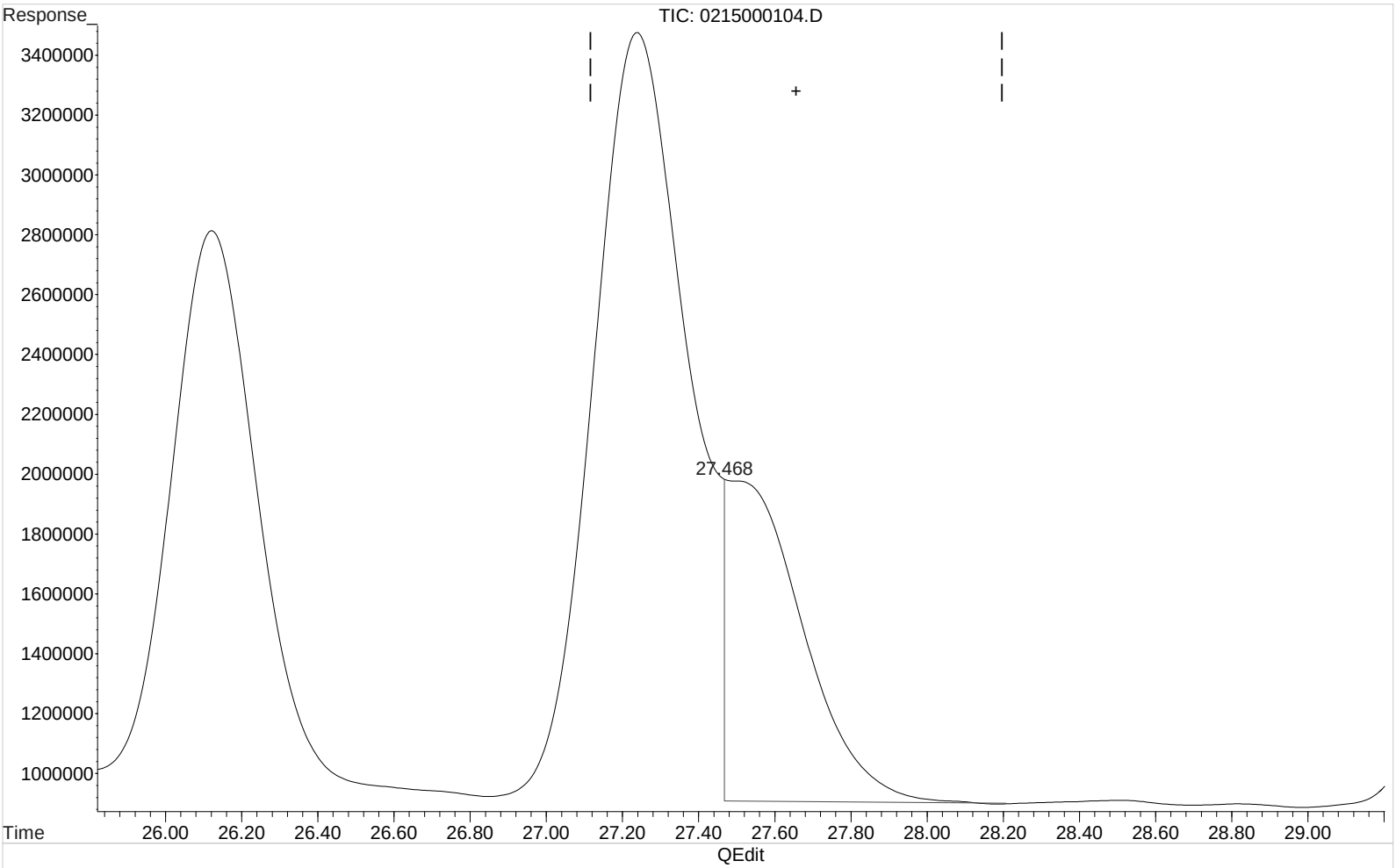
02/17/17

02/27/17

Data File : J:\LC10\Data\021517-210\0215000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 18:31:08 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 12:23:44 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.468min 833.853 ug/L m

response 14672036

Manual Integration:

After

MP

02/16/17

(+) = Expected Retention Time

(b) (6)

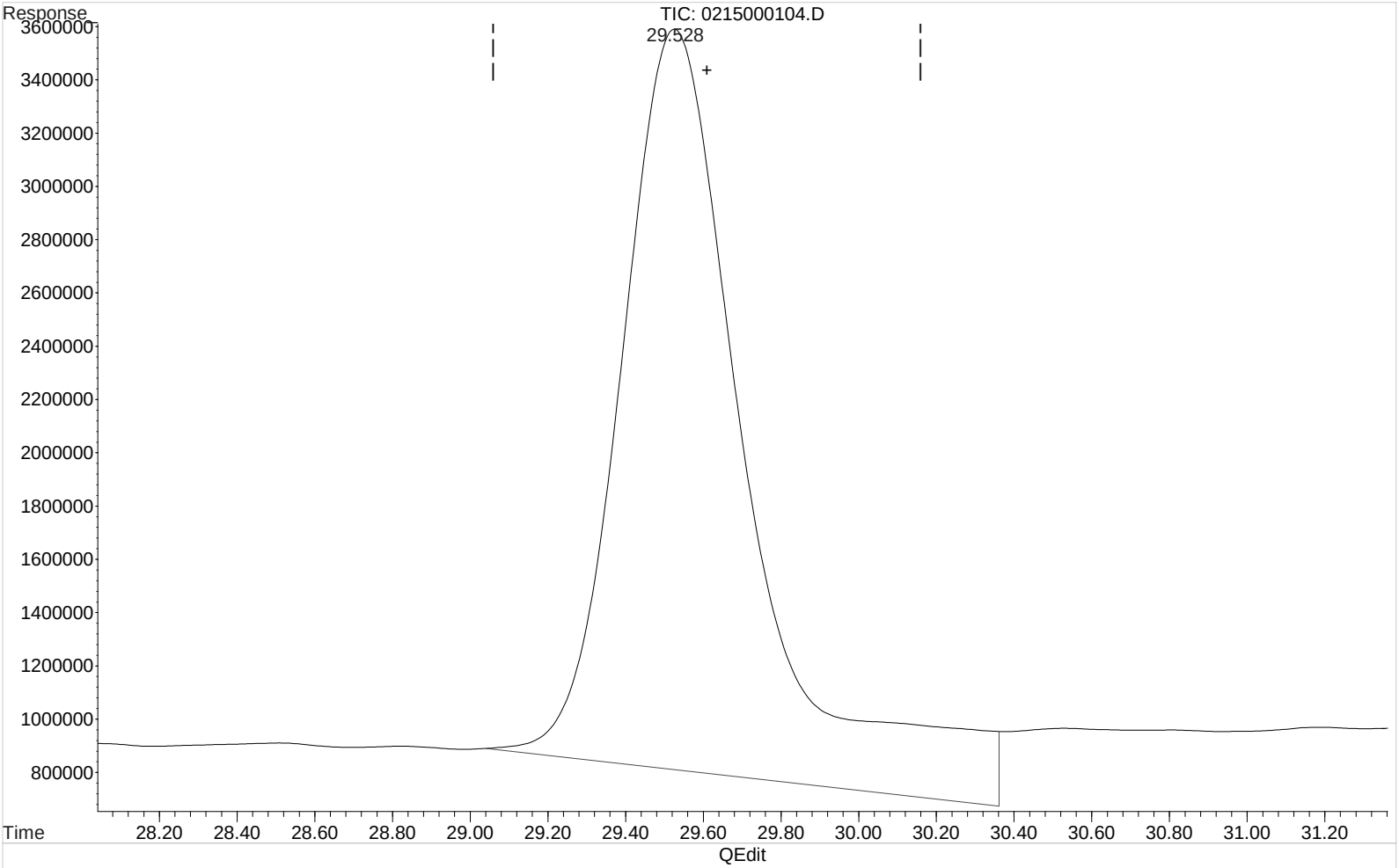
1 02/17/17

2 02/27/17

Data File : J:\LC10\Data\021517-210\0215000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 18:31:08 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 12:23:44 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.528min 1114.126 ug/L

response 63351245

Manual Integration:

Before

02/16/17

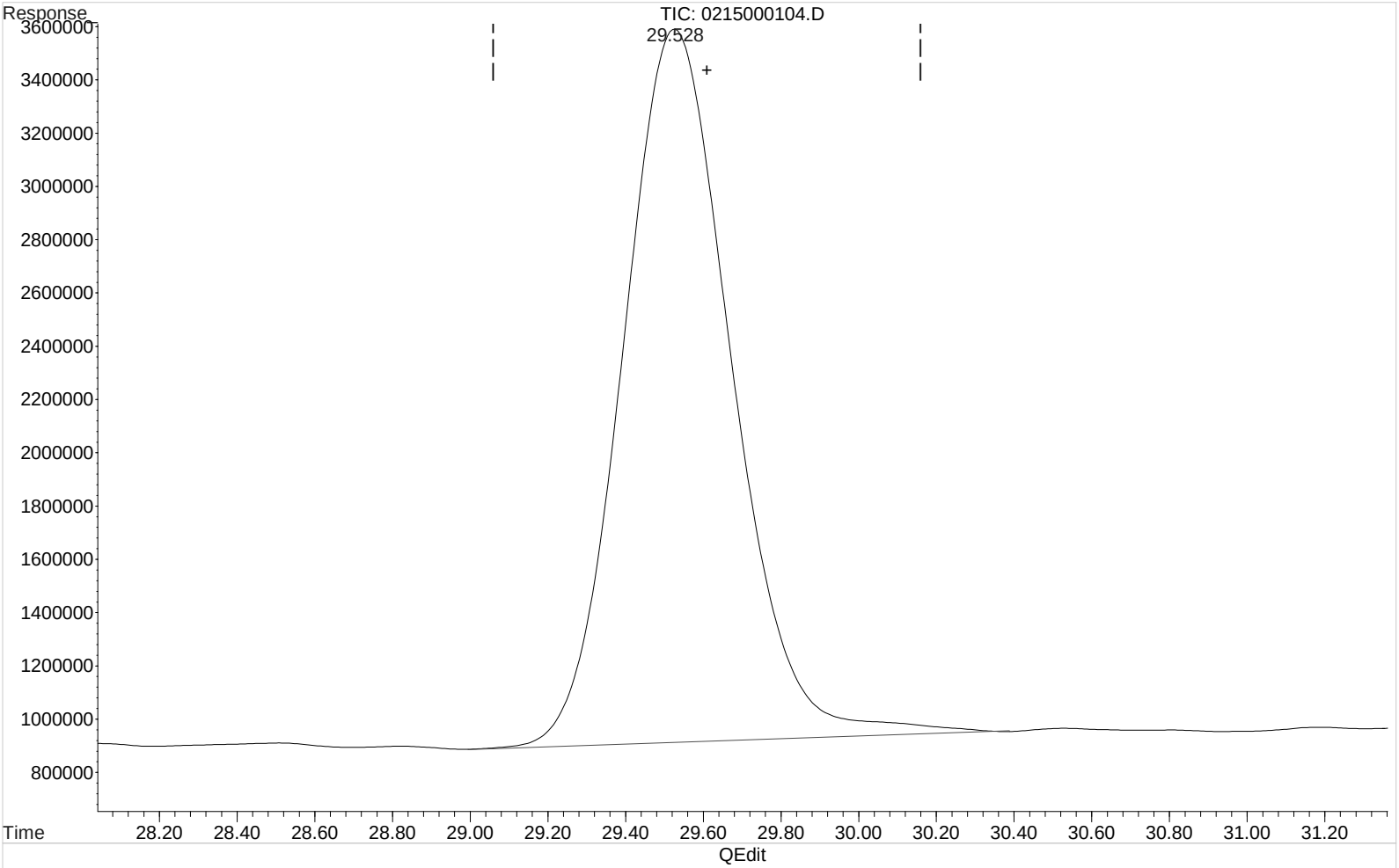
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\021517-210\0215000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 18:31:08 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 12:23:44 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

29.528min 919.533 ug/L m

response 52286347

Manual Integration:

After

BLC

02/16/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\021517-210\0215000118.D
Lab ID: KWG1701307-4
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 02/16/2017 02:58
Date Quantitated: 02/16/2017 13:22
Batch ID: KWG1701307
Analysis Method: 8330B
MethodJoinID: MJ1278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\021517-210\0215000118.D			**Instrument:**	LC10
Acqu Date:	02/16/2017 02:58	**Quant Date:**	02/16/2017 13:22	**Vial:**	2
Run Type:	CCV	**MethodJoinID:**	MJ1278	**Dilution:**	1.0
Lab ID:	KWG1701307-4			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701307	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1278
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.50		54894584	965.40		23-98	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.46		21193373**m**	1,017			
Pentaerythritol Tetranitrate	27.51		15769966	896.25			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\021517-210\0215000118.D			**Instrument:**	LC10
Acqu Date:	02/16/2017 02:58	**Quant Date:**	02/16/2017 13:22	**Vial:**	2
Run Type:	CCV	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701307-4			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701307	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.50		54894584	965.40		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.46		21193373**m**	1,017			
Pentaerythritol Tetranitrate	27.51		15769966	896.25			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-210\0215000118.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 16-Feb-2017, 02:58:18 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 13:22:15 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.505	54894584	965.403	ug/L	
Target Compounds						
1) T	Nitroglycerin	16.465	21193373	1016.630	ug/L	m
2) T	PETN	27.511	15769966	896.251	ug/L	

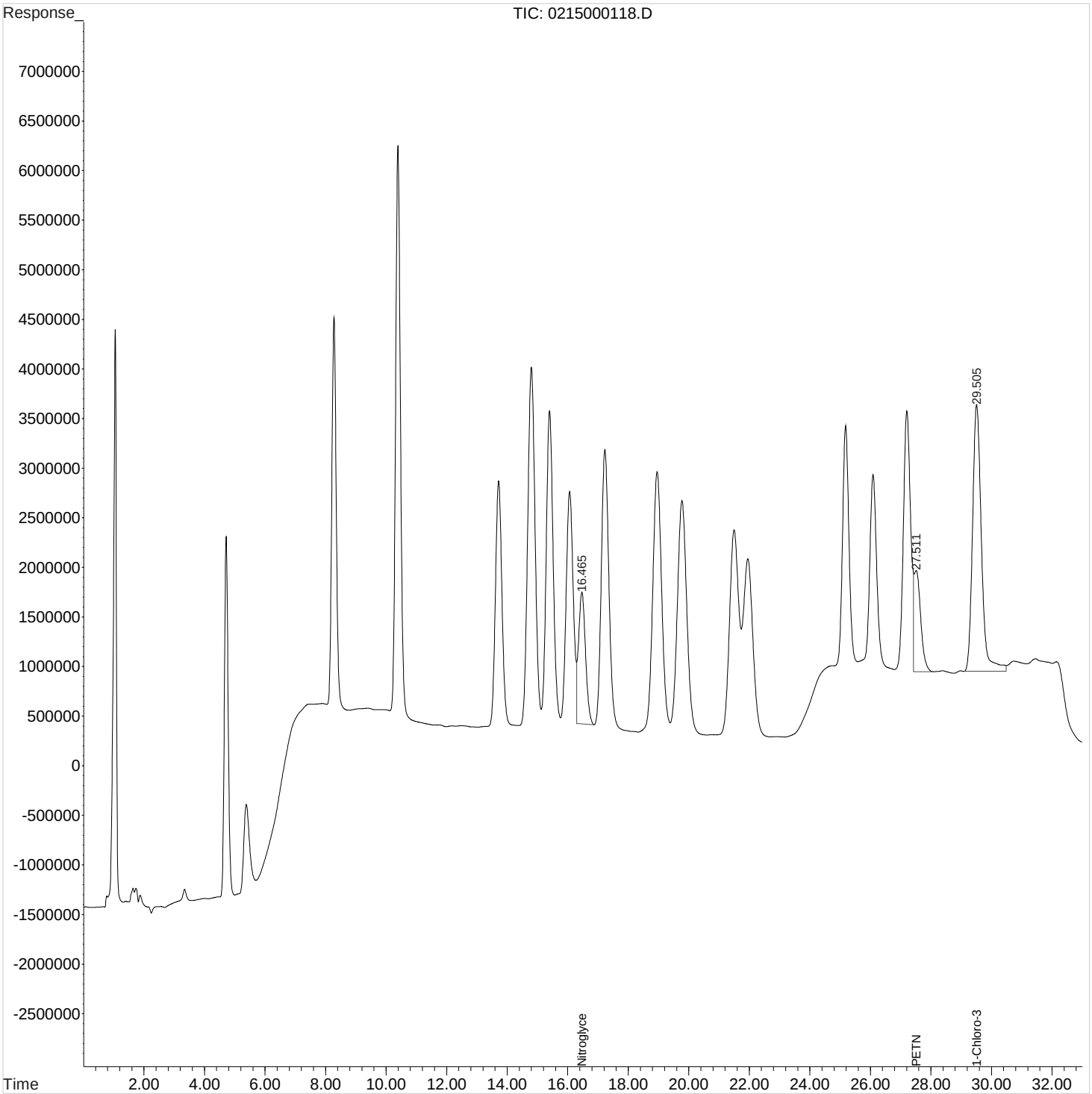
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-210\0215000118.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 16-Feb-2017, 02:58:18 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 13:22:15 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

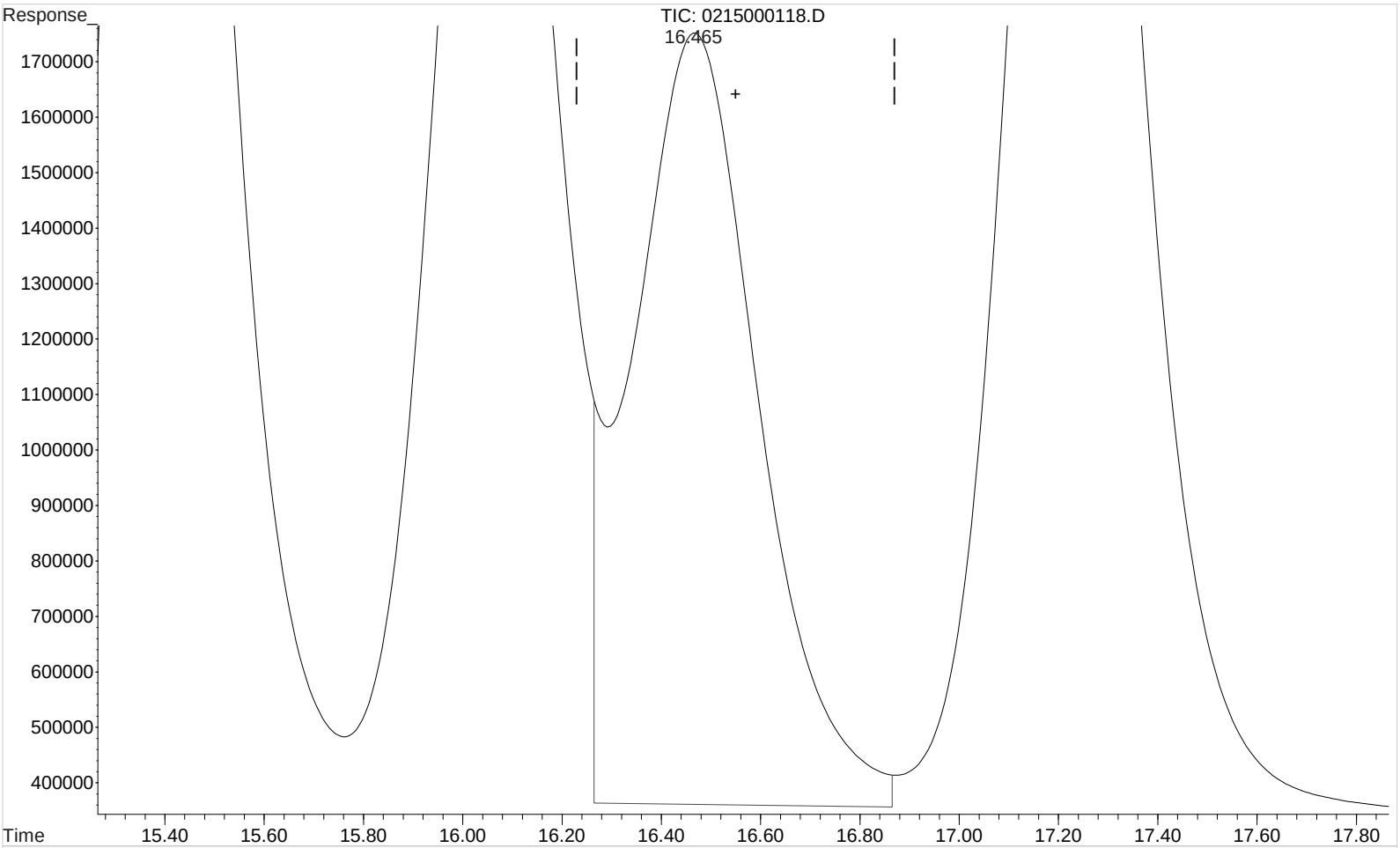


Quantitation Report (Qedit)

Data File : J:\LC10\Data\021517-210\0215000118.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 16-Feb-2017, 02:58:18 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 12:25:06 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.465min 1179.678 ug/L

response 24592378

Manual Integration:

Before

02/16/17

(+) = Expected Retention Time

(b) (6)

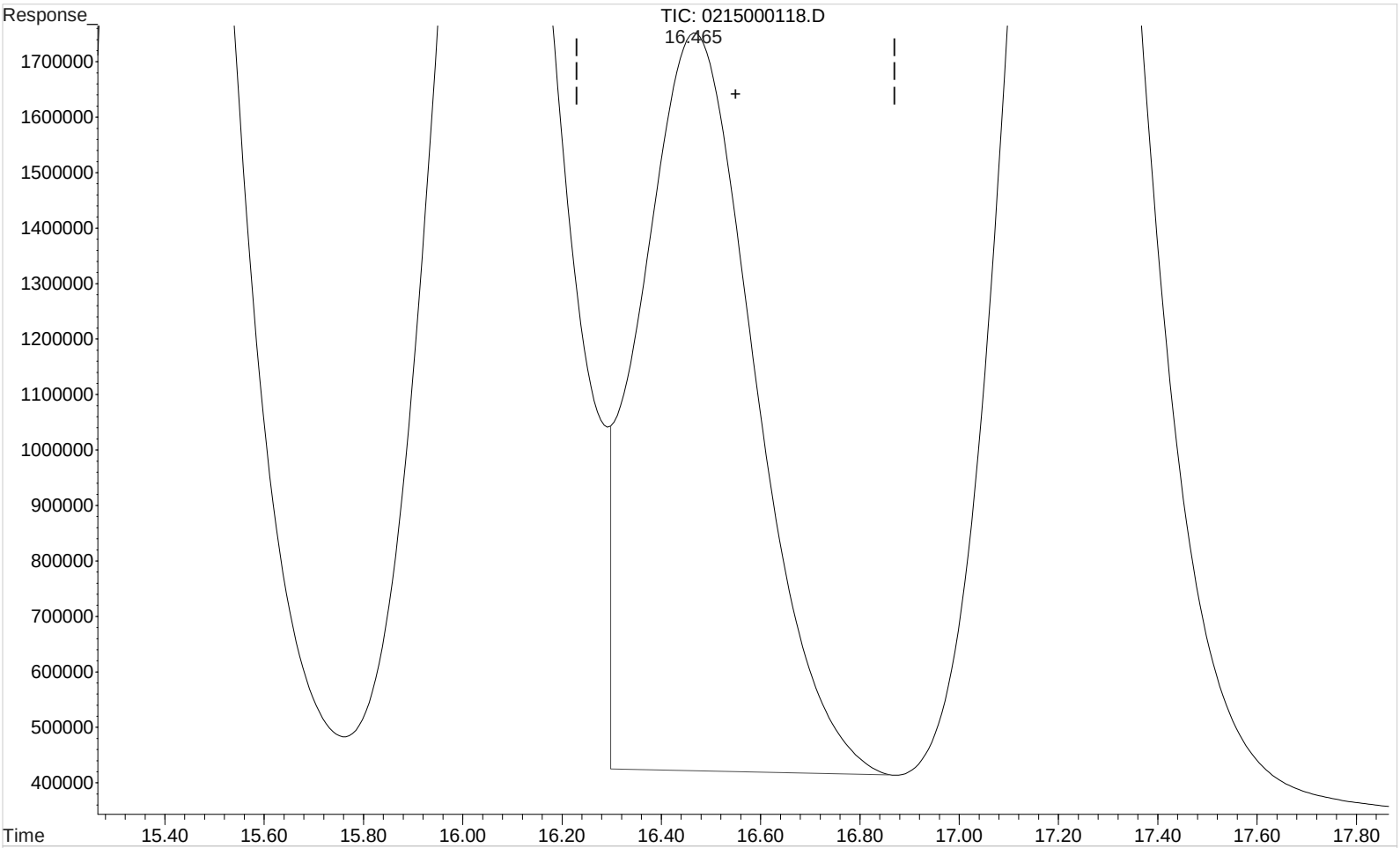
2/17/17

2/27/17

Data File : J:\LC10\Data\021517-210\0215000118.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 16-Feb-2017, 02:58:18 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 12:25:06 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.465min 1016.630 ug/L m

response 21193373

Manual Integration:

After

BLC

02/16/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\021517-254\0215000104.D
Lab ID: KWG1701308-2
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 02/15/2017 18:31
Date Quantitated: 02/16/2017 10:28
Batch ID: KWG1701308
Analysis Method: 8330B
MethodJoinID: MJ1278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\021517-254\0215000104.D			**Instrument:**	LC10
Acqu Date:	02/15/2017 18:31	**Quant Date:**	02/16/2017 10:28	**Vial:**	2
Run Type:	CCV	**MethodJoinID:**	MJ1278	**Dilution:**	1.0
Lab ID:	KWG1701308-2			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701308	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1278
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.53		19760838	914.47		23-98	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX	4.73		11487496	959.29			
RDX	8.28		18763110	944.76			
1,3,5-Trinitrobenzene	10.39		42579081	953.27			
1,3-Dinitrobenzene	13.71		57397844	952.15			
3,5-Dinitroaniline	14.80		45639058	955.94			
TETRYL	15.39		31683034	948.60			
Nitrobenzene	16.05		36724779	951.07			
2,4,6-Trinitrotoluene	17.24		39922801	958.44			
4-Amino-2,6-dinitrotoluene	19.02		28601898	969.10			
2-Amino-4,6-dinitrotoluene	19.84		39631727	944.47			
2,6-Dinitrotoluene	21.55		25115983	1,027			
2,4-Dinitrotoluene	22.00		56025684	945.81			
2-Nitrotoluene	25.21		17262524	960.84			
4-Nitrotoluene	26.12		15106111	951.76			
3-Nitrotoluene	27.23		19356395	961.28			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\021517-254\0215000104.D			**Instrument:**	LC10
Acqu Date:	02/15/2017 18:31	**Quant Date:**	02/16/2017 10:28	**Vial:**	2
Run Type:	CCV	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701308-2			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701308	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.53		19760838	914.47		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX	4.73		11487496	959.29			
2,4-Diamino-6-nitrotoluene			0				
RDX	8.28		18763110	944.76			
1,3,5-Trinitrobenzene	10.39		42579081	953.27			
1,3-Dinitrobenzene	13.71		57397844	952.15			
3,5-Dinitroaniline	14.80		45639058	955.94			
TETRYL	15.39		31683034	948.60			
Nitrobenzene	16.05		36724779	951.07			
2,4,6-Trinitrotoluene	17.24		39922801	958.44			
4-Amino-2,6-dinitrotoluene	19.02		28601898	969.10			
2-Amino-4,6-dinitrotoluene	19.84		39631727	944.47			
2,6-Dinitrotoluene	21.55		25115983	1,027			
2,4-Dinitrotoluene	22.00		56025684	945.81			
2-Nitrotoluene	25.21		17262524	960.84			
4-Nitrotoluene	26.12		15106111	951.76			
3-Nitrotoluene	27.23		19356395	961.28			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 18:31:08 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:28:08 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 13:47:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	29.528	19760838	914.465	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	4.728	11487496	959.290	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	8.281f	18763110	944.757	ug/L
5)	T	1,3,5-TNB	10.394f	42579081	953.273	ug/L
6)	T	1,3-DNB	13.714f	57397844	952.151	ug/L
7)	T	3,5-Dinitroaniline	14.801f	45639058	955.938	ug/L
8)	T	Tetryl	15.388f	31683034	948.604	ug/L
9)	T	Nitrobenzene	16.054	36724779	951.067	ug/L
10)	T	2,4,6-TNT	17.241f	39922801	958.437	ug/L
11)	T	4-Amino-2,6-DNT	19.021	28601898	969.100	ug/L
12)	T	2-Amino-4,6-DNT	19.841	39631727	944.466	ug/L
13)	T	2,6-DNT	21.548	25115983	1026.704	ug/L
14)	T	2,4-DNT	22.001	56025684	945.811	ug/L
15)	T	2-NT	25.214	17262524	960.839	ug/L
16)	T	4-NT	26.121	15106111	951.757	ug/L
17)	T	3-NT	27.234	19356395	961.281	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

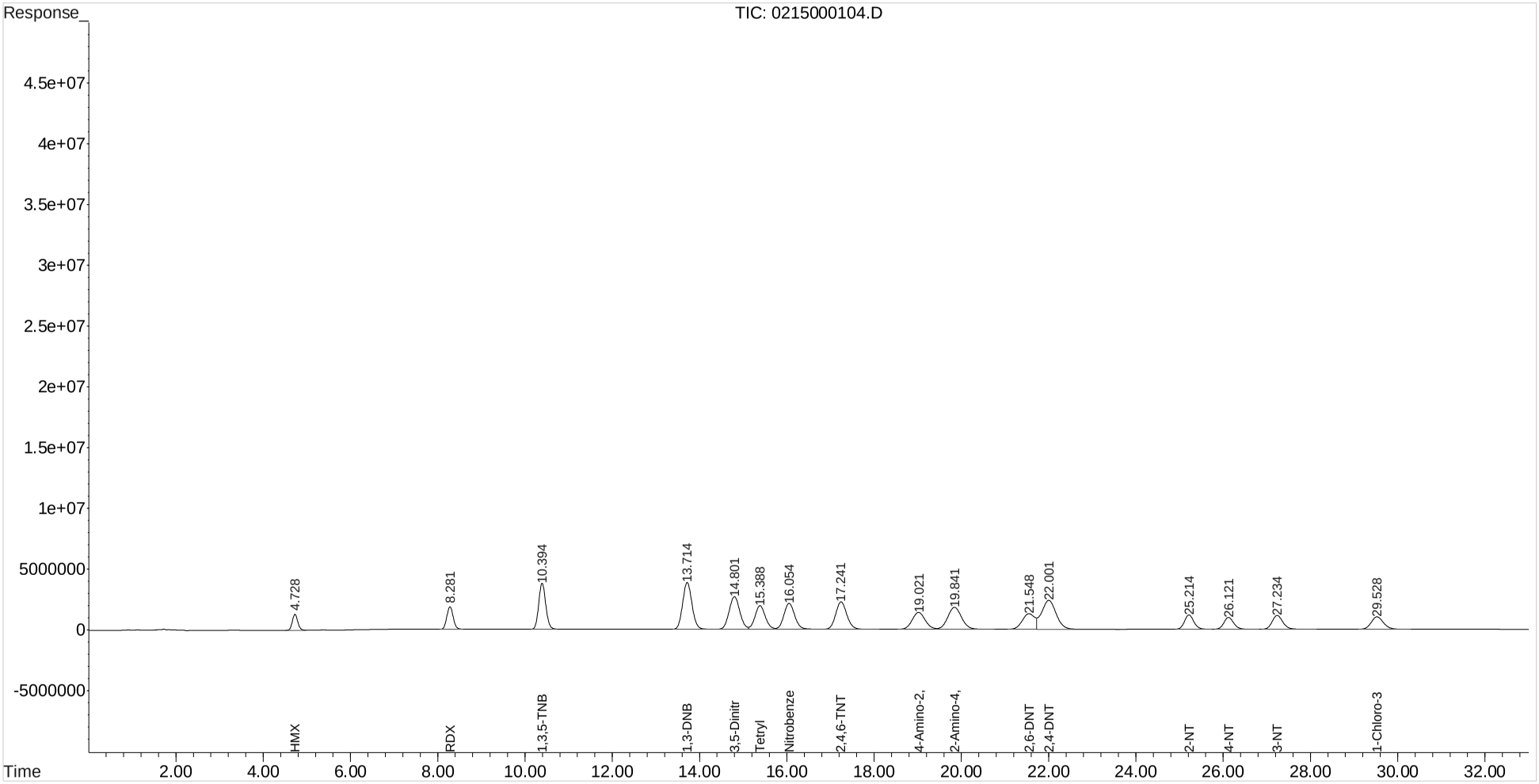
[redacted] 2/17/17
(9) (g) 2/27/17

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 18:31:08 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:28:08 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 13:47:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



Exception Report

Data File: J:\LC10\DATA\021517-254\0215000118.D
Lab ID: KWG1701308-4
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 02/16/2017 02:58
Date Quantitated: 02/16/2017 10:29
Batch ID: KWG1701308
Analysis Method: 8330B
MethodJoinID: MJ1278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\021517-254\0215000118.D			**Instrument:**	LC10
Acqu Date:	02/16/2017 02:58	**Quant Date:**	02/16/2017 10:29	**Vial:**	2
Run Type:	CCV	**MethodJoinID:**	MJ1278	**Dilution:**	1.0
Lab ID:	KWG1701308-4			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701308	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1278
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.51		19740818	913.54		23-98	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX	4.72		11536032	963.34			
RDX	8.28		18850184	949.14			
1,3,5-Trinitrobenzene	10.39		42389252	949.02			
1,3-Dinitrobenzene	13.72		57631591	956.03			
3,5-Dinitroaniline	14.80		45771958	958.72			
TETRYL	15.40		31056986	929.86			
Nitrobenzene	16.06		36660416	949.40			
2,4,6-Trinitrotoluene	17.22		40012057	960.58			
4-Amino-2,6-dinitrotoluene	18.95		28855809	977.70			
2-Amino-4,6-dinitrotoluene	19.77		40299297	960.38			
2,6-Dinitrotoluene	21.50		24861794	1,016			
2,4-Dinitrotoluene	21.95		56811092	959.07			
2-Nitrotoluene	25.18		17302150	963.05			
4-Nitrotoluene	26.08		15050396	948.25			
3-Nitrotoluene	27.20		21704841	1,078			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\021517-254\0215000118.D			**Instrument:**	LC10
Acqu Date:	02/16/2017 02:58	**Quant Date:**	02/16/2017 10:29	**Vial:**	2
Run Type:	CCV	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701308-4			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701308	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.51		19740818	913.54		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX	4.72		11536032	963.34			
2,4-Diamino-6-nitrotoluene			0				
RDX	8.28		18850184	949.14			
1,3,5-Trinitrobenzene	10.39		42389252	949.02			
1,3-Dinitrobenzene	13.72		57631591	956.03			
3,5-Dinitroaniline	14.80		45771958	958.72			
TETRYL	15.40		31056986	929.86			
Nitrobenzene	16.06		36660416	949.40			
2,4,6-Trinitrotoluene	17.22		40012057	960.58			
4-Amino-2,6-dinitrotoluene	18.95		28855809	977.70			
2-Amino-4,6-dinitrotoluene	19.77		40299297	960.38			
2,6-Dinitrotoluene	21.50		24861794	1,016			
2,4-Dinitrotoluene	21.95		56811092	959.07			
2-Nitrotoluene	25.18		17302150	963.05			
4-Nitrotoluene	26.08		15050396	948.25			
3-Nitrotoluene	27.20		21704841	1,078			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000118.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 02:58:18 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:29:08 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	29.511	19740818	913.539	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	4.718	11536032	963.343	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	8.278	18850184	949.141	ug/L
5)	T	1,3,5-TNB	10.391	42389252	949.023	ug/L
6)	T	1,3-DNB	13.718	57631591	956.029	ug/L
7)	T	3,5-Dinitroaniline	14.798	45771958	958.721	ug/L
8)	T	Tetryl	15.398	31056986	929.860	ug/L
9)	T	Nitrobenzene	16.065	36660416	949.400	ug/L
10)	T	2,4,6-TNT	17.225	40012057	960.580	ug/L
11)	T	4-Amino-2,6-DNT	18.951	28855809	977.703	ug/L
12)	T	2-Amino-4,6-DNT	19.771	40299297	960.375	ug/L
13)	T	2,6-DNT	21.498	24861794	1016.313	ug/L
14)	T	2,4-DNT	21.951	56811092	959.070	ug/L
15)	T	2-NT	25.178	17302150	963.045	ug/L
16)	T	4-NT	26.085	15050396	948.246	ug/L
17)	T	3-NT	27.205	21704841	1077.910	ug/L

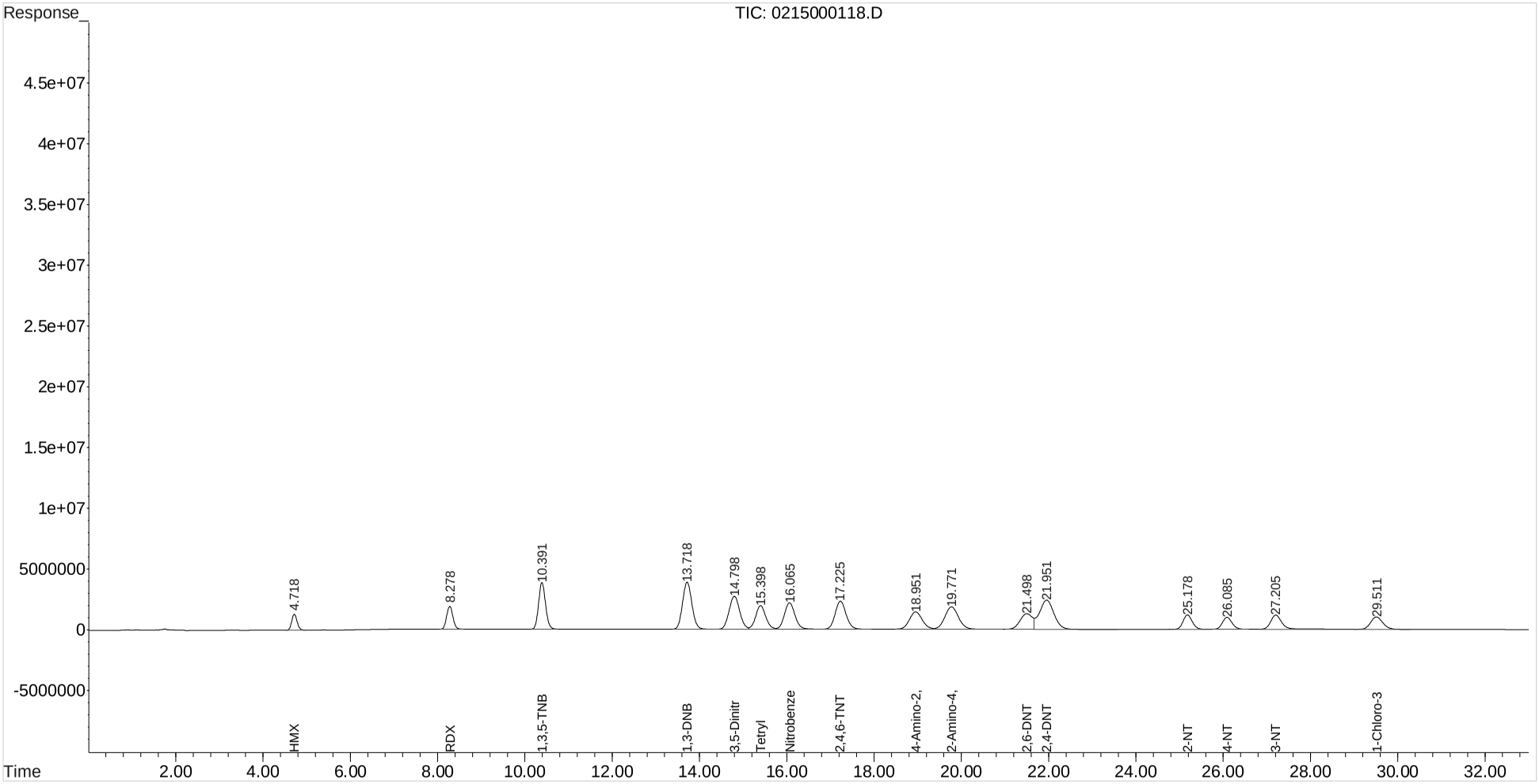
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000118.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 02:58:18 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:29:08 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



Exception Report

Data File: J:\LC08\DATA\021617_XC-254\0216000103.D
Lab ID: KWG1701338-2
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 02/16/2017 12:28
Date Quantitated: 02/17/2017 10:20
Batch ID: KWG1701338
Analysis Method: 8330B
MethodJoinID: MJ1278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC08\DATA\021617_XC-254\0216000103.D			**Instrument:**	LC08
Acqu Date:	02/16/2017 12:28	**Quant Date:**	02/17/2017 10:20	**Vial:**	2
Run Type:	CCV	**MethodJoinID:**	MJ1278	**Dilution:**	1.0
Lab ID:	KWG1701338-2			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/17/2017

Analysis Lot:	KWG1701338	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC08\METHOD\020917_SHORT	**Calibration ID:**	CAL15192
Title:			
		Method ID:	MJ1278
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	8.09		24984360**m**	949.40		23-98	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX	2.54		14471914**m**	928.49			
RDX	2.79		16699333**m**	897.77			
Nitrobenzene	4.47		34729712	933.51			
3,5-Dinitroaniline	5.21		42708253	918.77			
4-Amino-2,6-dinitrotoluene	4.85		29399672	922.97			
2-Nitrotoluene	5.84		21782548**m**	924.75			
2-Amino-4,6-dinitrotoluene	6.33		38465312**m**	911.75			
3-Nitrotoluene	6.95		25858564	925.40			
1,3-Dinitrobenzene	9.08		52569418	939.61			
4-Nitrotoluene	7.81		21857123**m**	937.64			
2,6-Dinitrotoluene	8.77		21997362	898.95			
2,4-Dinitrotoluene	14.71		47245339	898.14			
TETRYL	12.90		27744258	944.95			
1,3,5-Trinitrobenzene	19.69		38173672	906.00			
2,4,6-Trinitrotoluene	20.65		35526393	915.57			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC08\DATA\021617_XC-254\0216000103.D			**Instrument:**	LC08
Acqu Date:	02/16/2017 12:28	**Quant Date:**	02/17/2017 10:20	**Vial:**	2
Run Type:	CCV	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701338-2			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/17/2017

Analysis Lot:	KWG1701338	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC08\METHOD\020917_SHORT	**Calibration ID:**	CAL15192
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	8.09		24984360**m**	949.40		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX	2.54		14471914**m**	928.49			
RDX	2.79		16699333**m**	897.77			
Nitrobenzene	4.47		34729712	933.51			
3,5-Dinitroaniline	5.21		42708253	918.77			
4-Amino-2,6-dinitrotoluene	4.85		29399672	922.97			
2-Nitrotoluene	5.84		21782548**m**	924.75			
2-Amino-4,6-dinitrotoluene	6.33		38465312**m**	911.75			
3-Nitrotoluene	6.95		25858564	925.40			
1,3-Dinitrobenzene	9.08		52569418	939.61			
4-Nitrotoluene	7.81		21857123**m**	937.64			
2,6-Dinitrotoluene	8.77		21997362	898.95			
2,4-Dinitrotoluene	14.71		47245339	898.14			
TETRYL	12.90		27744258	944.95			
1,3,5-Trinitrobenzene	19.69		38173672	906.00			
2,4,6-Trinitrotoluene	20.65		35526393	915.57			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\021617_XC-254\0216000103.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 12:28:24 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:20:17 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
11) S	1-Chloro-3-Nitrobenzene	8.093	24984360	949.396	ug/L	m
	Target Compounds					
1) T	HMX	2.540	14471914	928.490	ug/L	m
2) T	RDX	2.787	16699333	897.774	ug/L	m
3) T	Nitrobenzene	4.467	34729712	933.508	ug/L	
4) T	3,5-Dinitroaniline	5.213	42708253	918.768	ug/L	
5) T	4-Amino-2,6-DNT	4.847	29399672	922.968	ug/L	
6) T	2-NT	5.840	21782548	924.747	ug/L	m
7) T	2-Amino-4,6-DNT	6.327	38465312	911.750	ug/L	m
8) T	3-NT	6.947	25858564	925.397	ug/L	
9) T	1,3-DNB	9.080	52569418	939.605	ug/L	
10) T	4-NT	7.807	21857123	937.642	ug/L	m
12) T	2,6-DNT	8.773	21997362	898.948	ug/L	
13) T	2,4-DNT	14.707	47245339	898.138	ug/L	
14) T	Tetryl	12.900	27744258	944.952	ug/L	
15) T	1,3,5-TNB	19.687	38173672	906.000	ug/L	
16) T	2,4,6-TNT	20.647	35526393	915.572	ug/L	

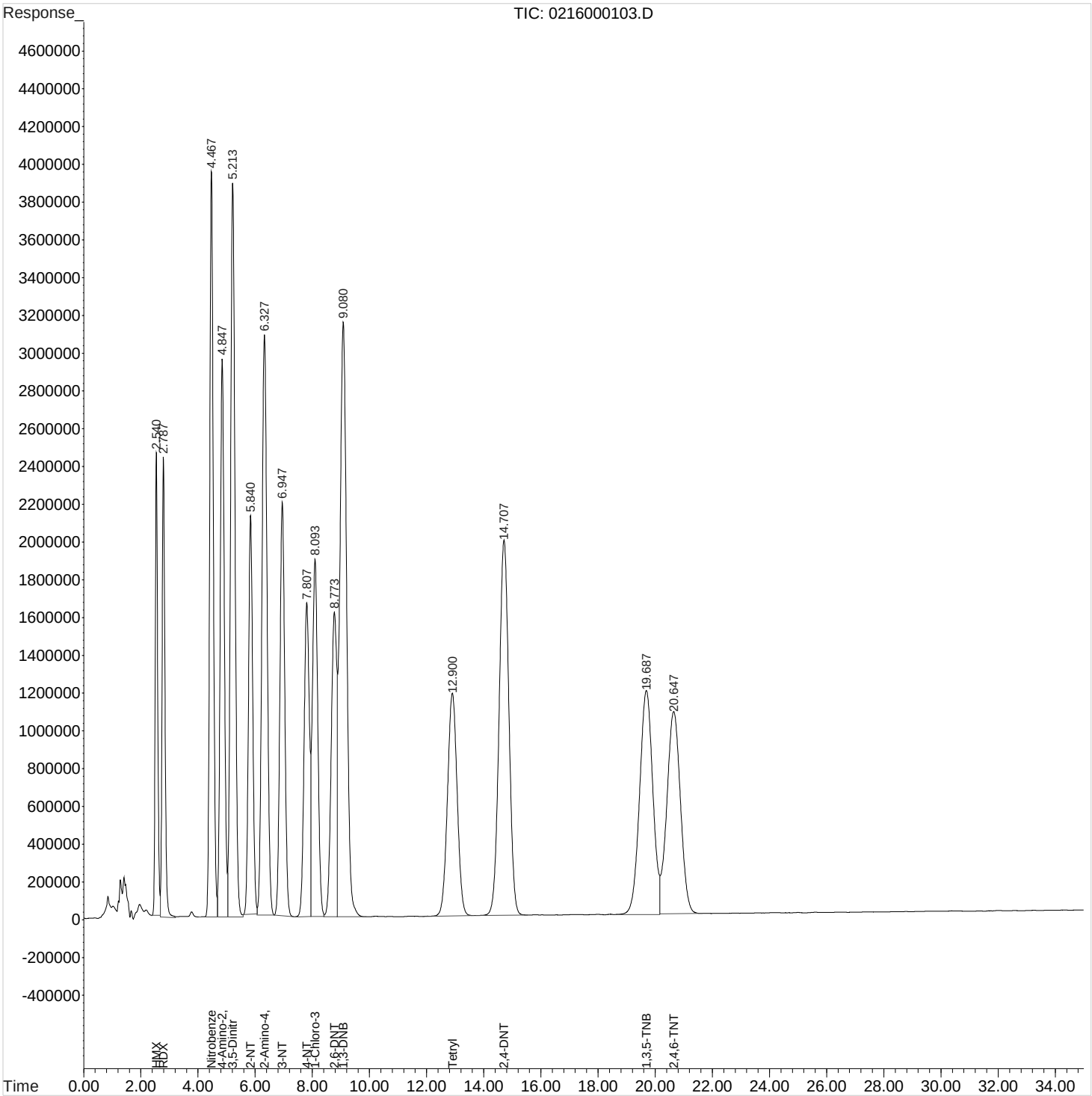
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\021617_XC-254\0216000103.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 12:28:24 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:20:17 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

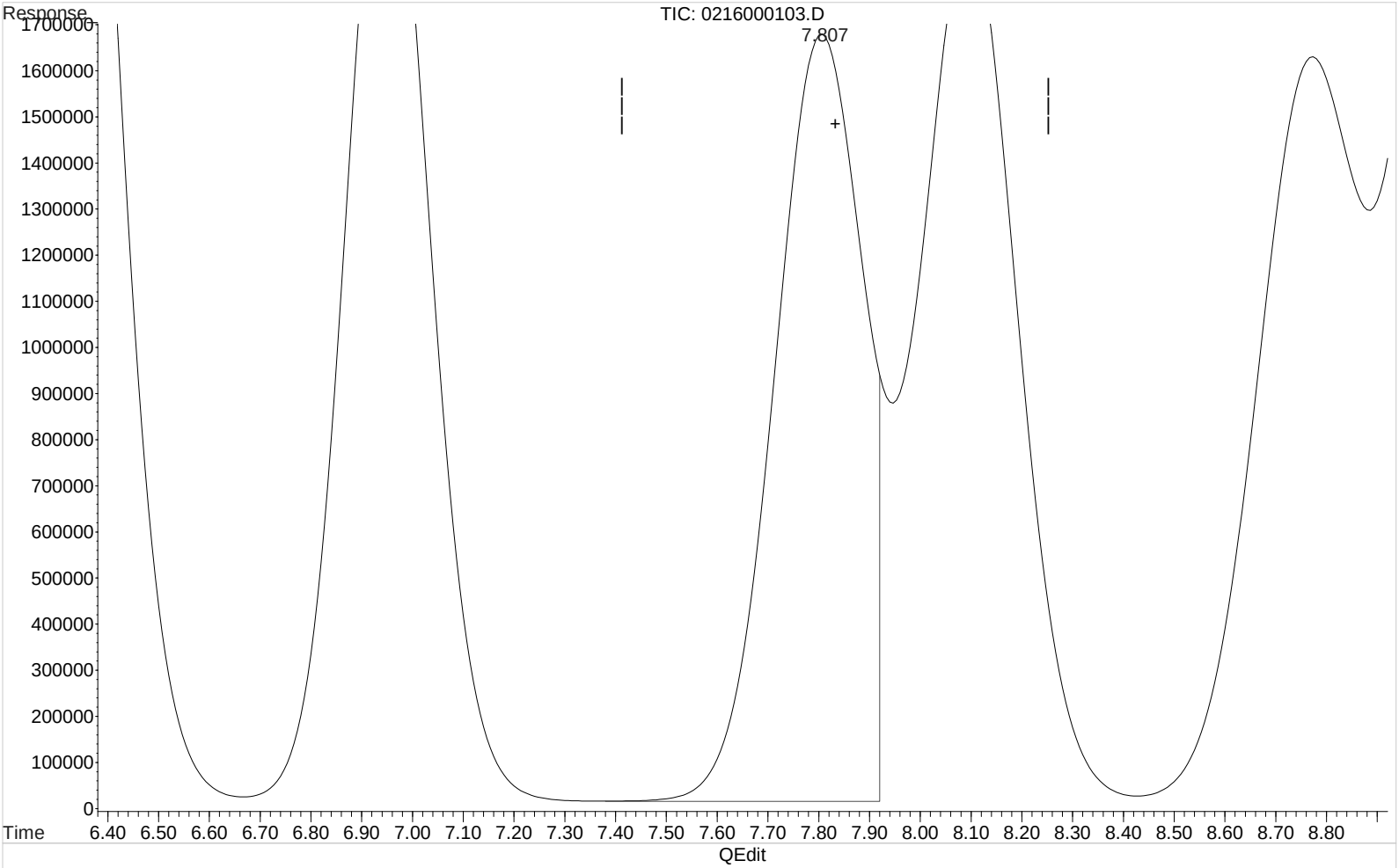


Quantitation Report (Qedit)

Data File : J:\LC08\Data\021617_XC-254\0216000103.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 12:28:24 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:19:03 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(10) 4-NT (T)

7.807min 862.542 ug/L

response 20106502

Manual Integration:

Before

02/17/17

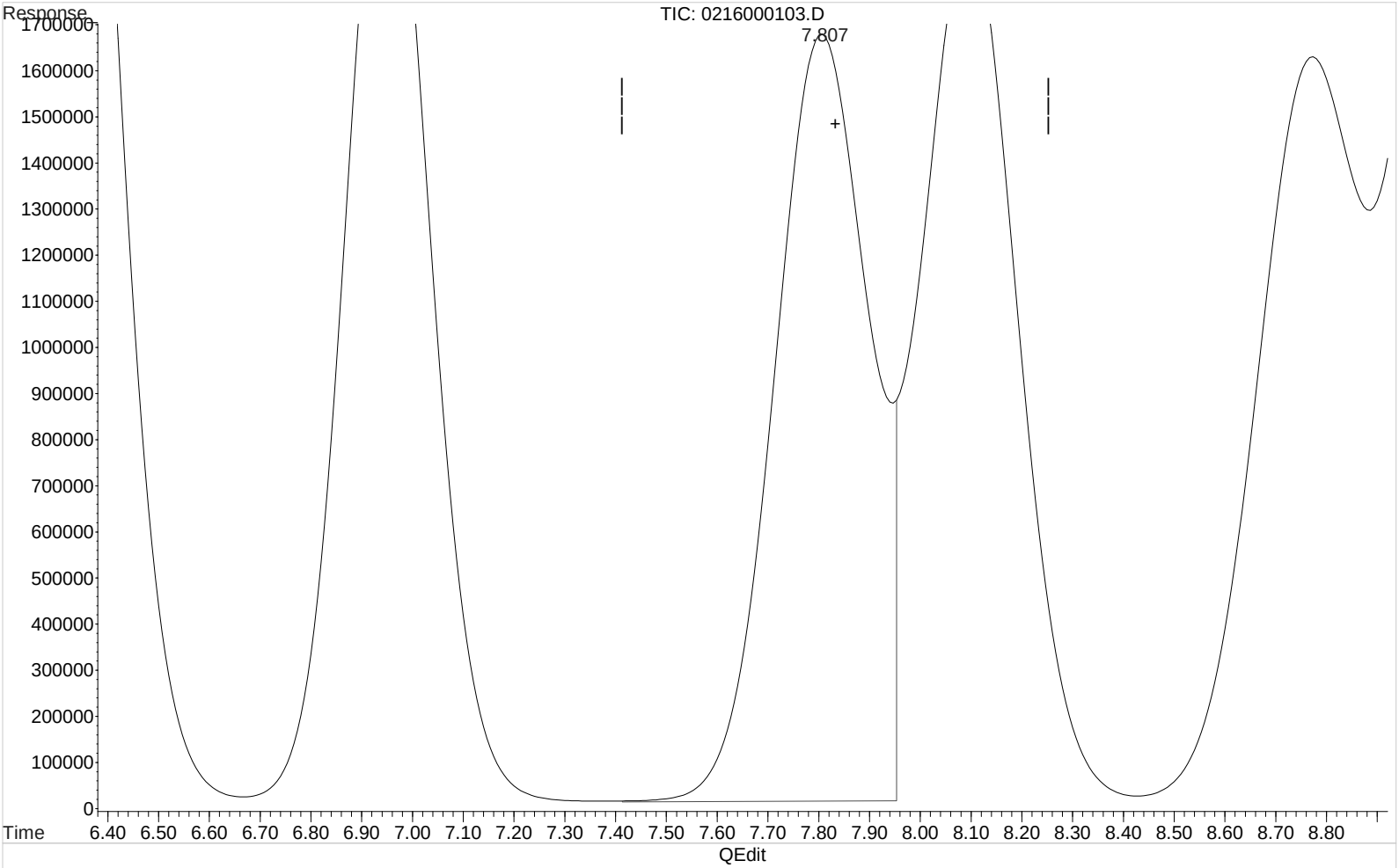
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\021617_XC-254\0216000103.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 12:28:24 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:19:03 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(10) 4-NT (T)

7.807min 937.642 ug/L m

response 21857123

Manual Integration:

After

BLC

02/17/17

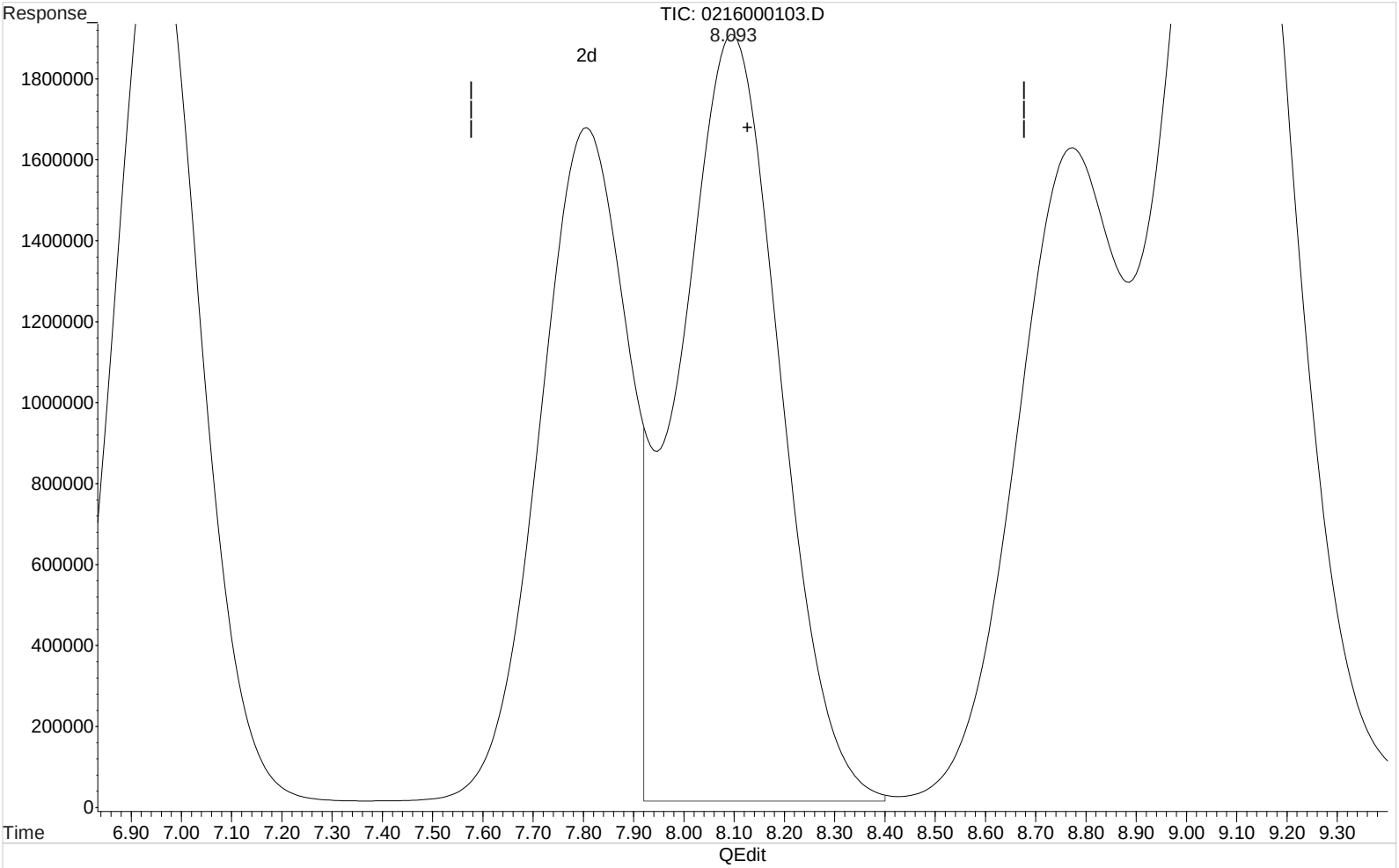
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\021617_XC-254\0216000103.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 12:28:24 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:19:03 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(11) 1-Chloro-3-Nitrobenzene (S)

8.093min 1002.905 ug/L

response 26392505

Manual Integration:

Before

02/17/17

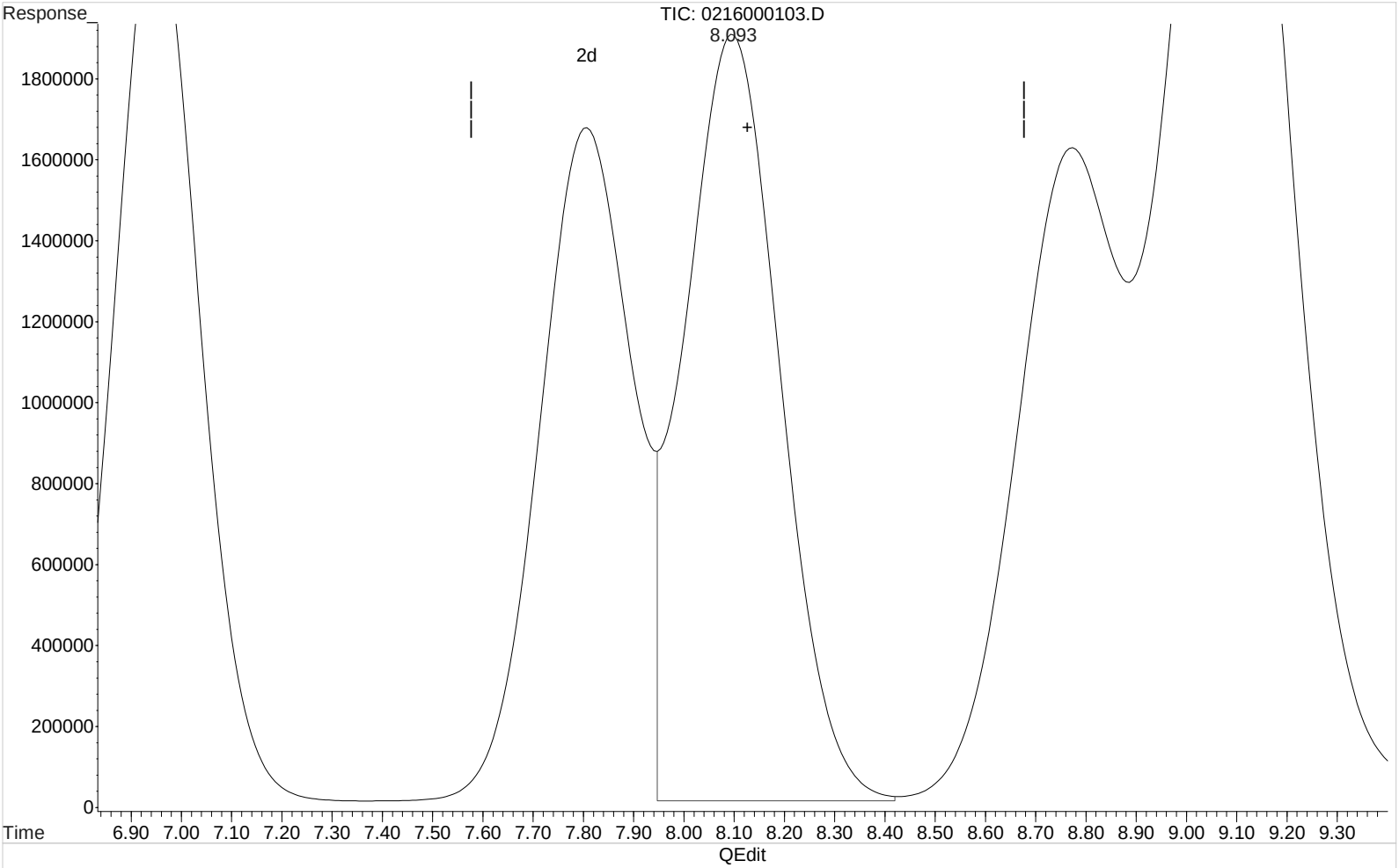
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\021617_XC-254\0216000103.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 12:28:24 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:19:03 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(11) 1-Chloro-3-Nitrobenzene (S)

8.093min 949.396 ug/L m

response 24984360

Manual Integration:

After

BLC

02/17/17

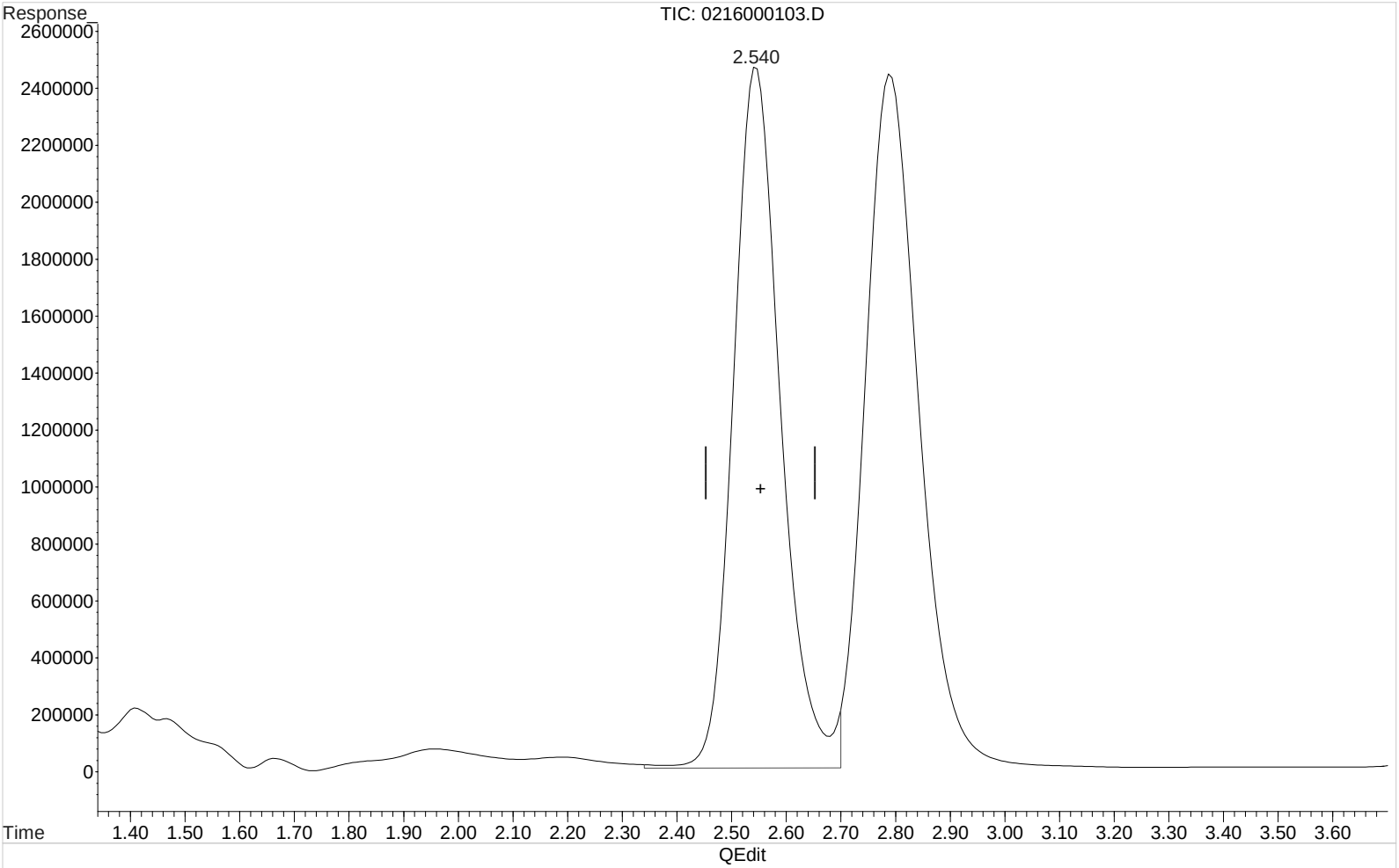
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\021617_XC-254\0216000103.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 12:28:24 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:19:03 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.540min 954.101 ug/L

response 14871099

Manual Integration:

Before

02/17/17

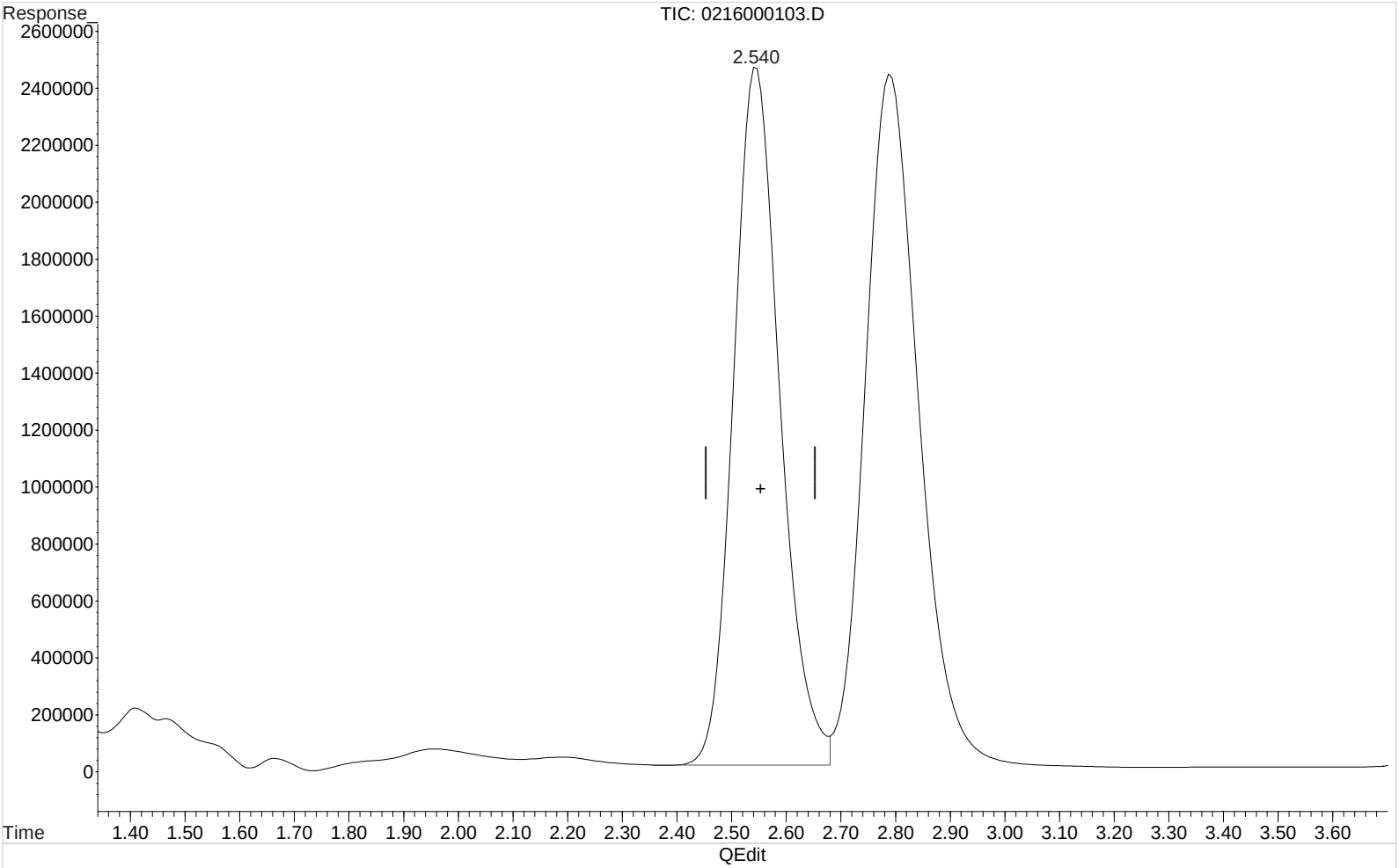
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\021617_XC-254\0216000103.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 12:28:24 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:19:03 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.540min 928.490 ug/L m

response 14471914

Manual Integration:

After

BLC

02/17/17

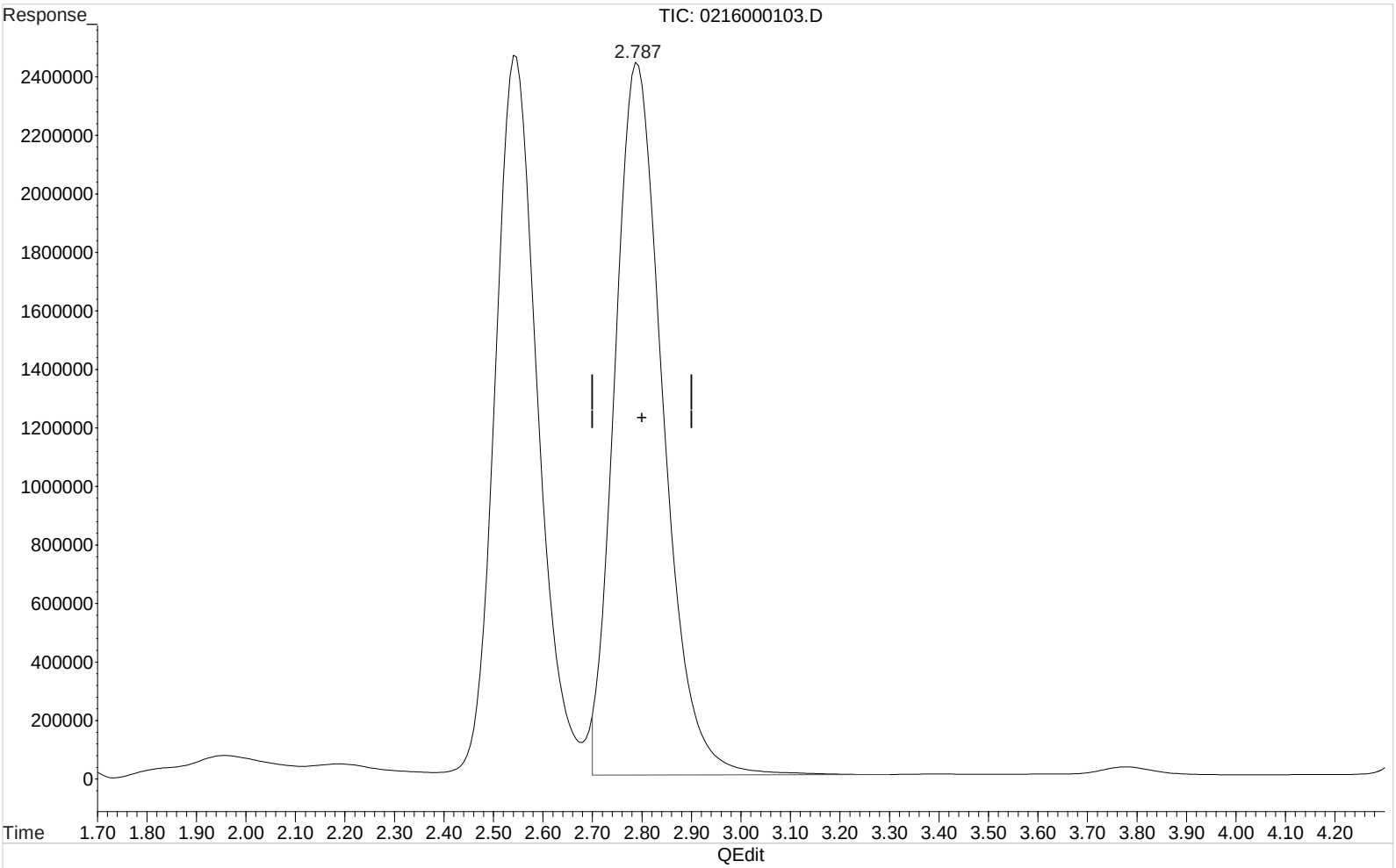
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\021617_XC-254\0216000103.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 12:28:24 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:19:03 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(2) RDX (T)

2.787min 883.634 ug/L

response 16436320

Manual Integration:

Before

02/17/17

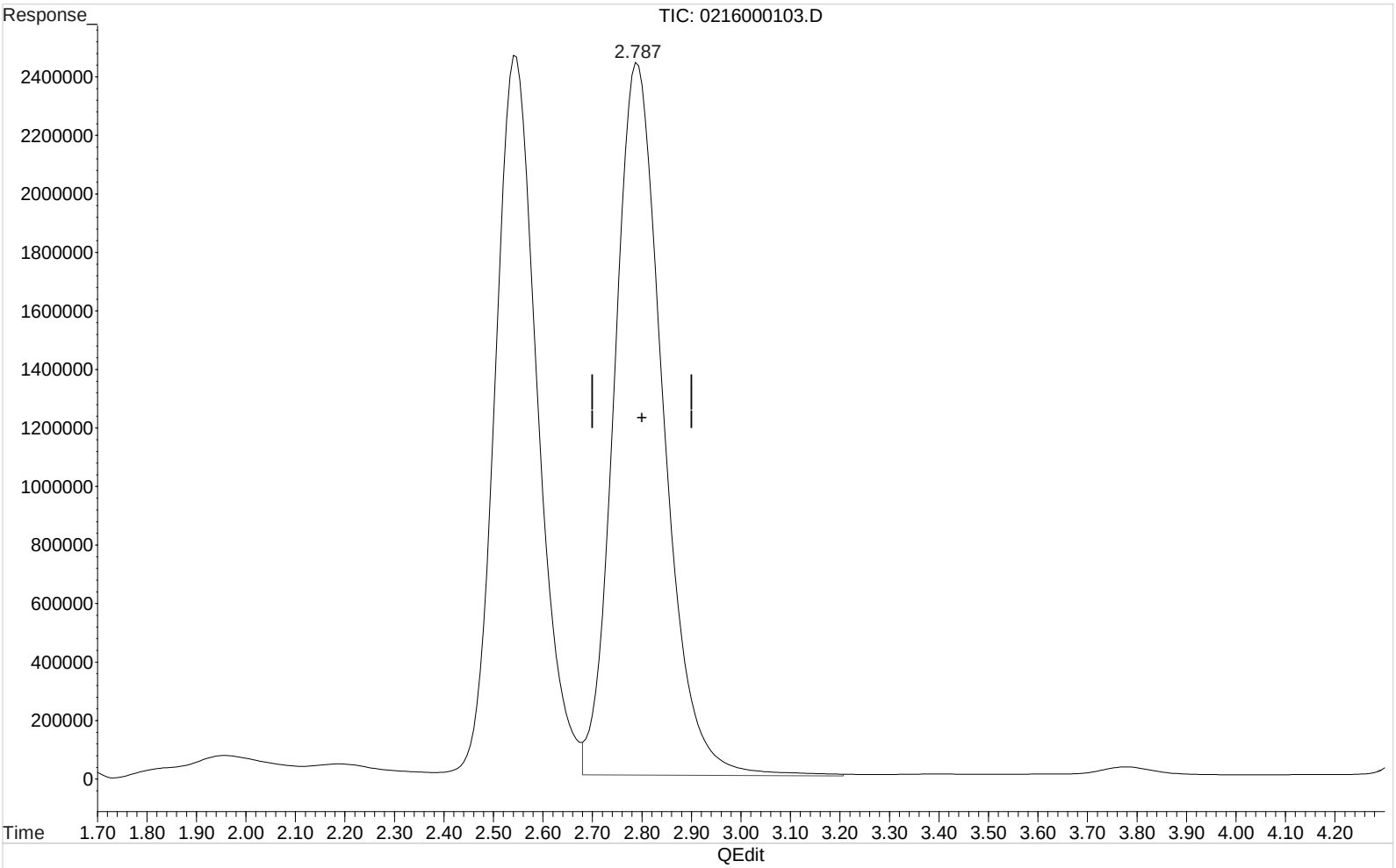
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\021617_XC-254\0216000103.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 12:28:24 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:19:03 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.787min 897.774 ug/L m

response 16699333

Manual Integration:

After

BLC

02/17/17

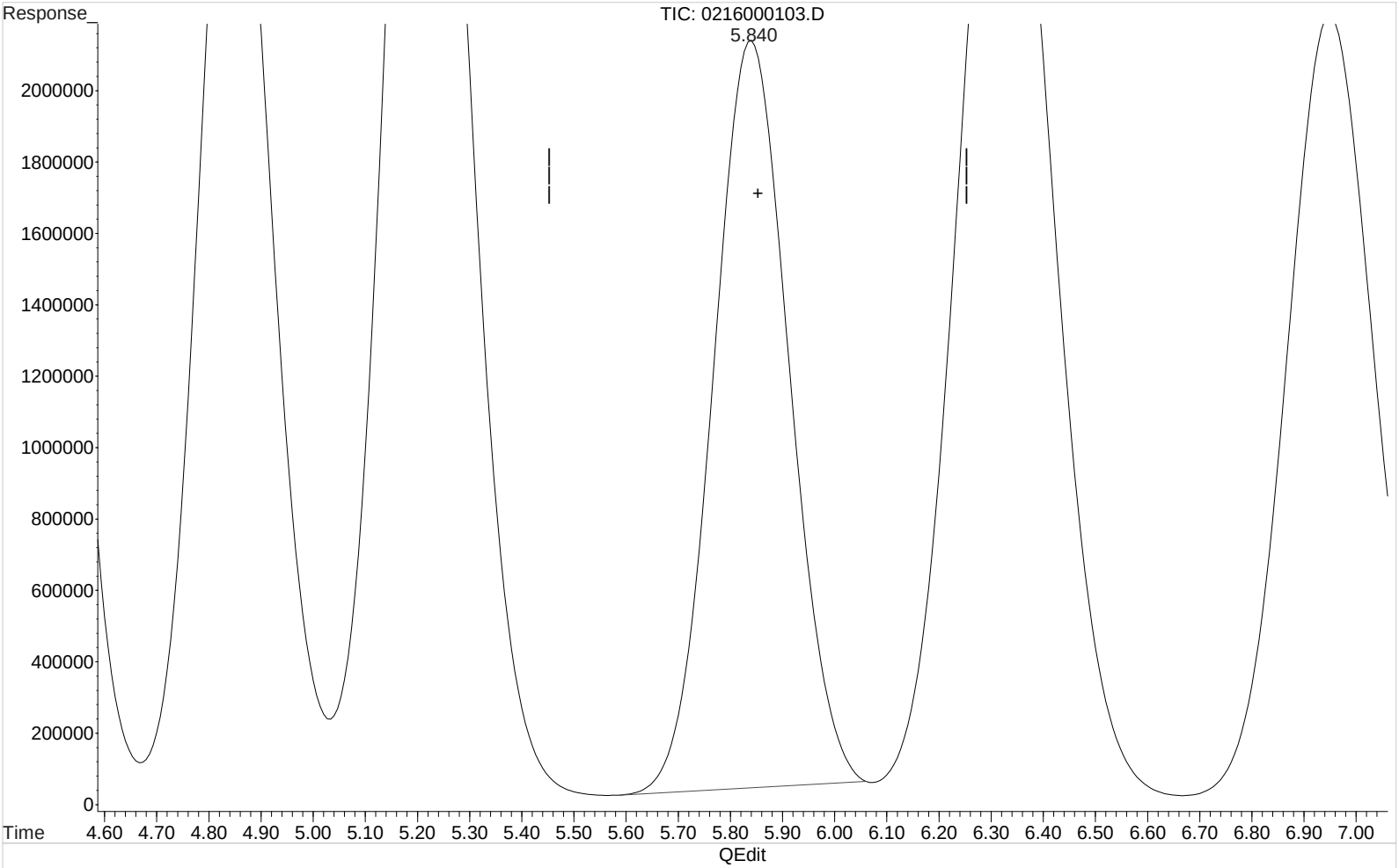
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\021617_XC-254\0216000103.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 12:28:24 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:19:03 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.840min 903.017 ug/L

response 21270681

Manual Integration:

Before

02/17/17

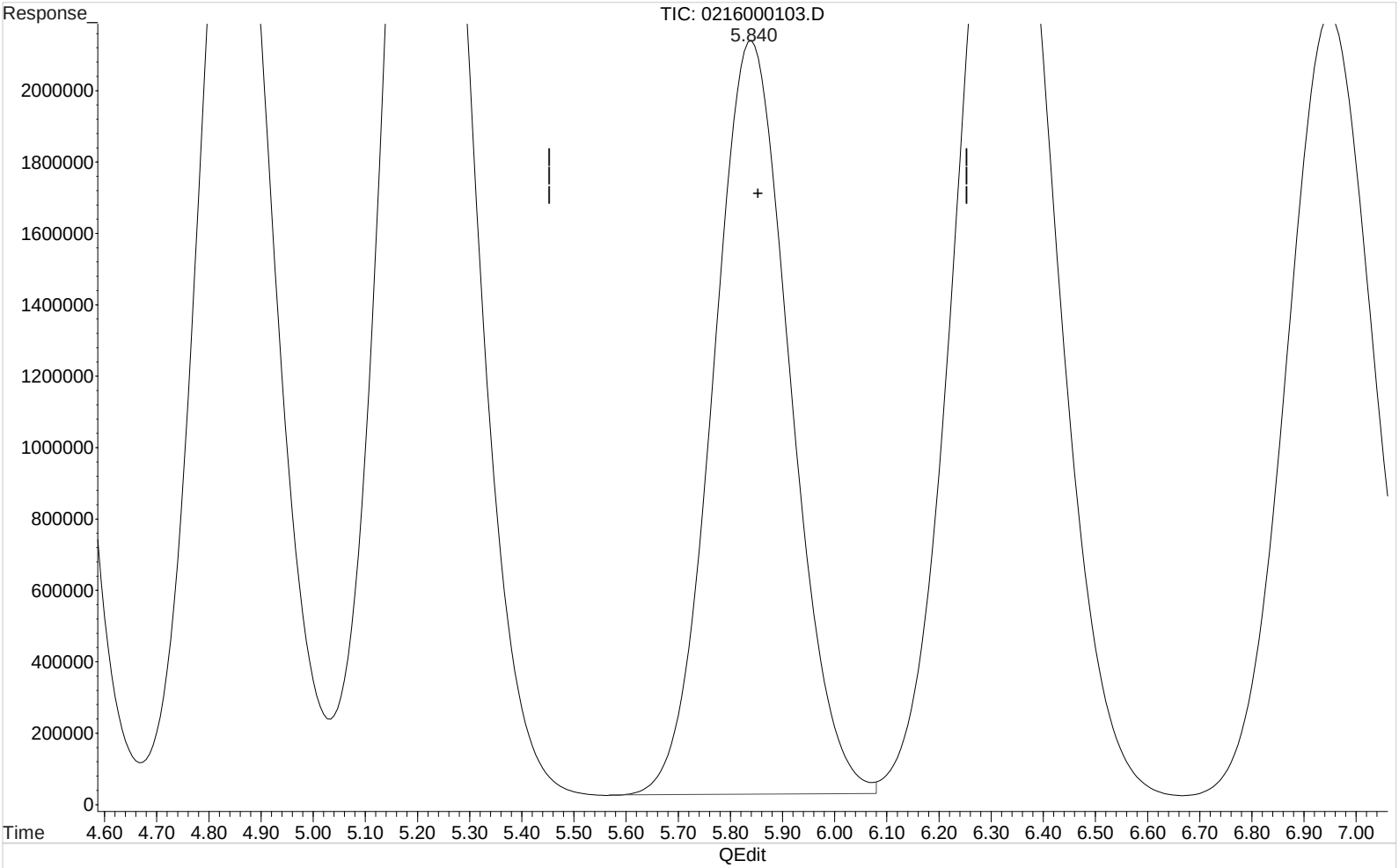
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\021617_XC-254\0216000103.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 12:28:24 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:19:03 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.840min 924.747 ug/L m

response 21782548

Manual Integration:

After

BLC

02/17/17

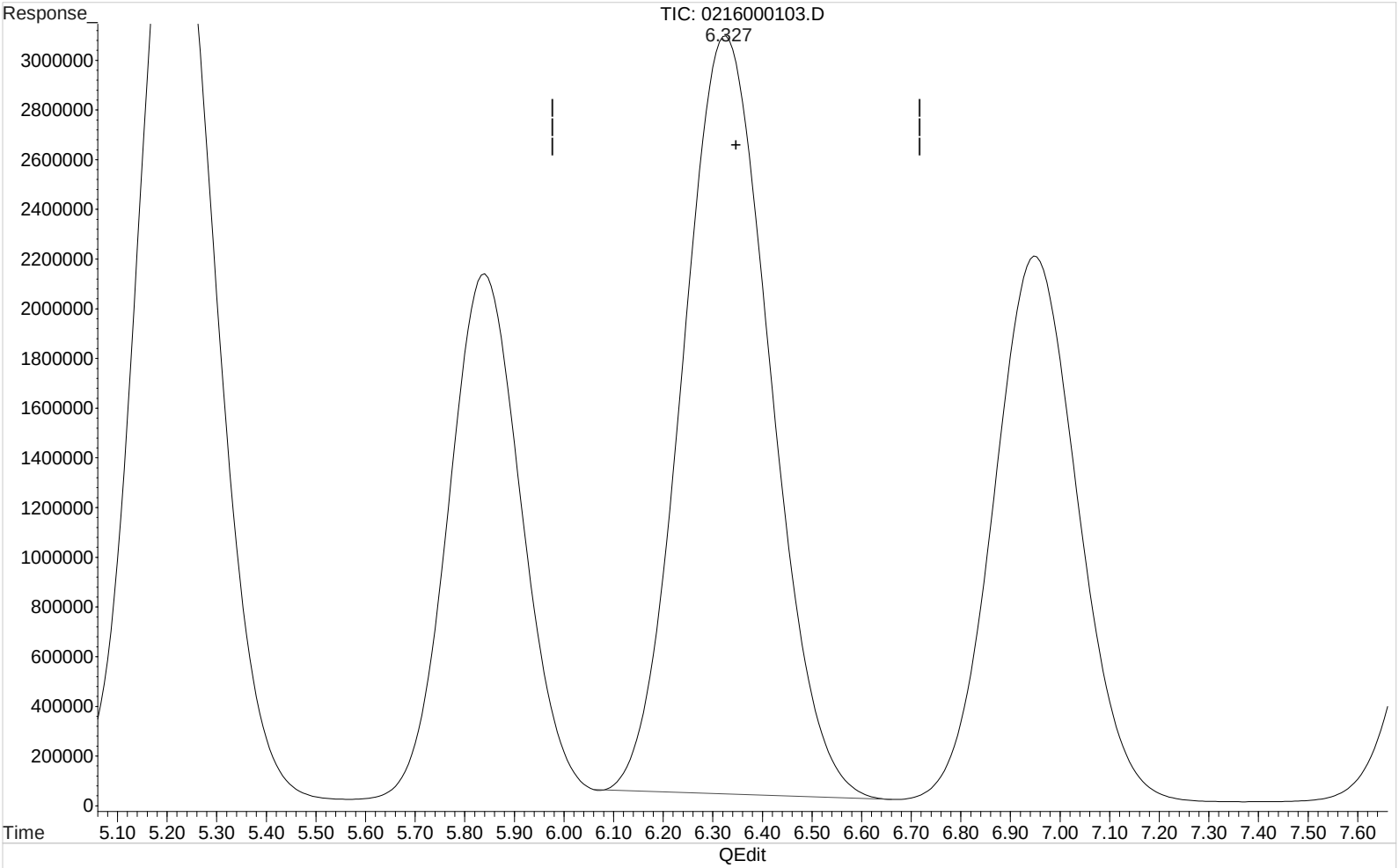
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\021617_XC-254\0216000103.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 12:28:24 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:19:03 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.327min 894.999 ug/L

response 37758627

Manual Integration:

Before

02/17/17

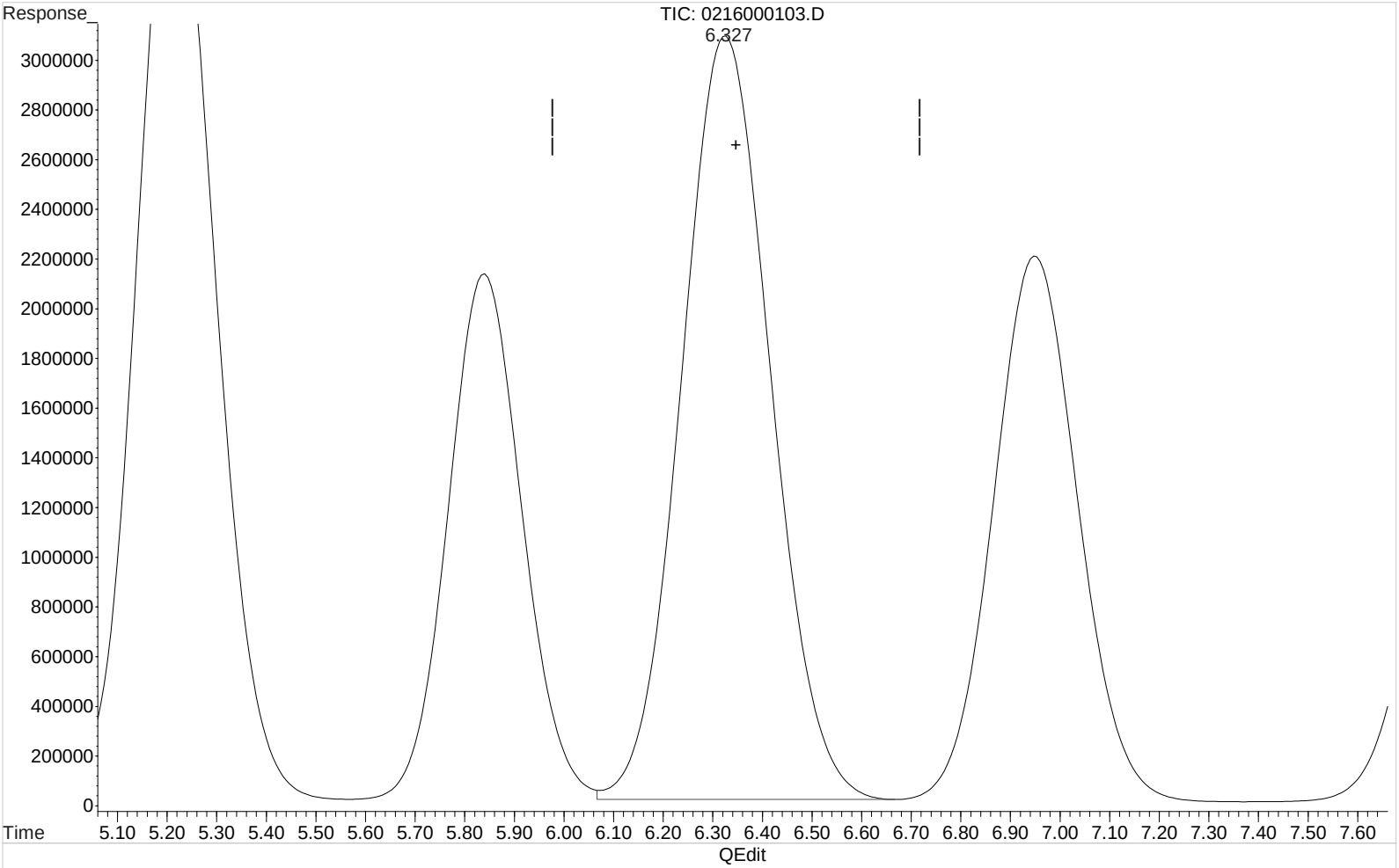
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\021617_XC-254\0216000103.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 12:28:24 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:19:03 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.327min 911.750 ug/L m

response 38465312

Manual Integration:

After

BLC

02/17/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC08\DATA\021617_XC-254\0216000110.D
Lab ID: KWG1701338-4
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 02/16/2017 16:46
Date Quantitated: 02/17/2017 10:28
Batch ID: KWG1701338
Analysis Method: 8330B
MethodJoinID: MJ1278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC08\DATA\021617_XC-254\0216000110.D			**Instrument:**	LC08
Acqu Date:	02/16/2017 16:46	**Quant Date:**	02/17/2017 10:28	**Vial:**	2
Run Type:	CCV	**MethodJoinID:**	MJ1278	**Dilution:**	1.0
Lab ID:	KWG1701338-4			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/17/2017

Analysis Lot:	KWG1701338	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC08\METHOD\020917_SHORT	**Calibration ID:**	CAL15192
Title:			
		Method ID:	MJ1278
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	8.09		24992167**m**	949.69		23-98	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX	2.55		14609194**m**	937.30			
RDX	2.79		16749848**m**	900.49			
Nitrobenzene	4.47		34837250	936.40			
3,5-Dinitroaniline	5.22		43252397	930.47			
4-Amino-2,6-dinitrotoluene	4.85		29564411	928.14			
2-Nitrotoluene	5.84		21844329**m**	927.37			
2-Amino-4,6-dinitrotoluene	6.33		38558908**m**	913.97			
3-Nitrotoluene	6.95		25984830	929.92			
1,3-Dinitrobenzene	9.08		52734207	942.55			
4-Nitrotoluene	7.81		21778489**m**	934.27			
2,6-Dinitrotoluene	8.77		22380629	914.61			
2,4-Dinitrotoluene	14.70		47770622	908.12			
TETRYL	12.89		27857302	948.80			
1,3,5-Trinitrobenzene	19.67		39069484	927.26			
2,4,6-Trinitrotoluene	20.62		35847219	923.84			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC08\DATA\021617_XC-254\0216000110.D			**Instrument:**	LC08
Acqu Date:	02/16/2017 16:46	**Quant Date:**	02/17/2017 10:28	**Vial:**	2
Run Type:	CCV	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701338-4			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/17/2017

Analysis Lot:	KWG1701338	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC08\METHOD\020917_SHORT	**Calibration ID:**	CAL15192
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	8.09		24992167**m**	949.69		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX	2.55		14609194**m**	937.30			
RDX	2.79		16749848**m**	900.49			
Nitrobenzene	4.47		34837250	936.40			
3,5-Dinitroaniline	5.22		43252397	930.47			
4-Amino-2,6-dinitrotoluene	4.85		29564411	928.14			
2-Nitrotoluene	5.84		21844329**m**	927.37			
2-Amino-4,6-dinitrotoluene	6.33		38558908**m**	913.97			
3-Nitrotoluene	6.95		25984830	929.92			
1,3-Dinitrobenzene	9.08		52734207	942.55			
4-Nitrotoluene	7.81		21778489**m**	934.27			
2,6-Dinitrotoluene	8.77		22380629	914.61			
2,4-Dinitrotoluene	14.70		47770622	908.12			
TETRYL	12.89		27857302	948.80			
1,3,5-Trinitrobenzene	19.67		39069484	927.26			
2,4,6-Trinitrotoluene	20.62		35847219	923.84			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\021617_XC-254\0216000110.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 16:46:29 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:28:52 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Feb 17 10:20:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds							
11)	S	1-Chloro-3-Nitrobenzene	8.093	24992167	949.692	ug/L	m
Target Compounds							
1)	T	HMX	2.547	14609194	937.298	ug/L	m
2)	T	RDX	2.793	16749848	900.489	ug/L	m
3)	T	Nitrobenzene	4.467	34837250	936.398	ug/L	
4)	T	3,5-Dinitroaniline	5.220	43252397	930.474	ug/L	
5)	T	4-Amino-2,6-DNT	4.853	29564411	928.139	ug/L	
6)	T	2-NT	5.840	21844329	927.370	ug/L	m
7)	T	2-Amino-4,6-DNT	6.327	38558908	913.969	ug/L	m
8)	T	3-NT	6.953	25984830	929.915	ug/L	
9)	T	1,3-DNB	9.080	52734207	942.551	ug/L	
10)	T	4-NT	7.807	21778489	934.268	ug/L	m
12)	T	2,6-DNT	8.767	22380629	914.610	ug/L	
13)	T	2,4-DNT	14.700	47770622	908.123	ug/L	
14)	T	Tetryl	12.893	27857302	948.802	ug/L	
15)	T	1,3,5-TNB	19.667	39069484	927.261	ug/L	
16)	T	2,4,6-TNT	20.620	35847219	923.841	ug/L	

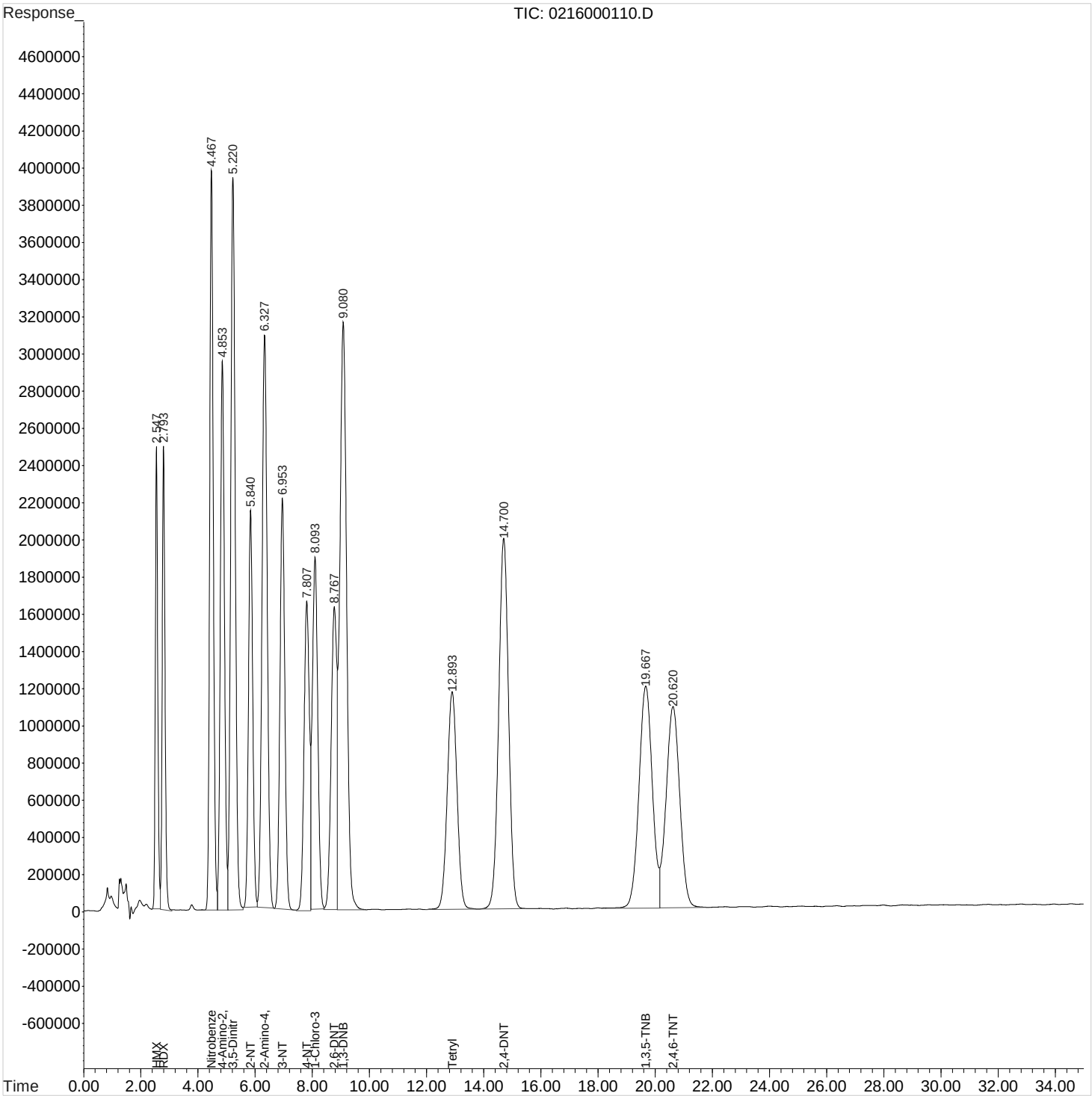
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\021617_XC-254\0216000110.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 16:46:29 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:28:52 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Feb 17 10:20:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

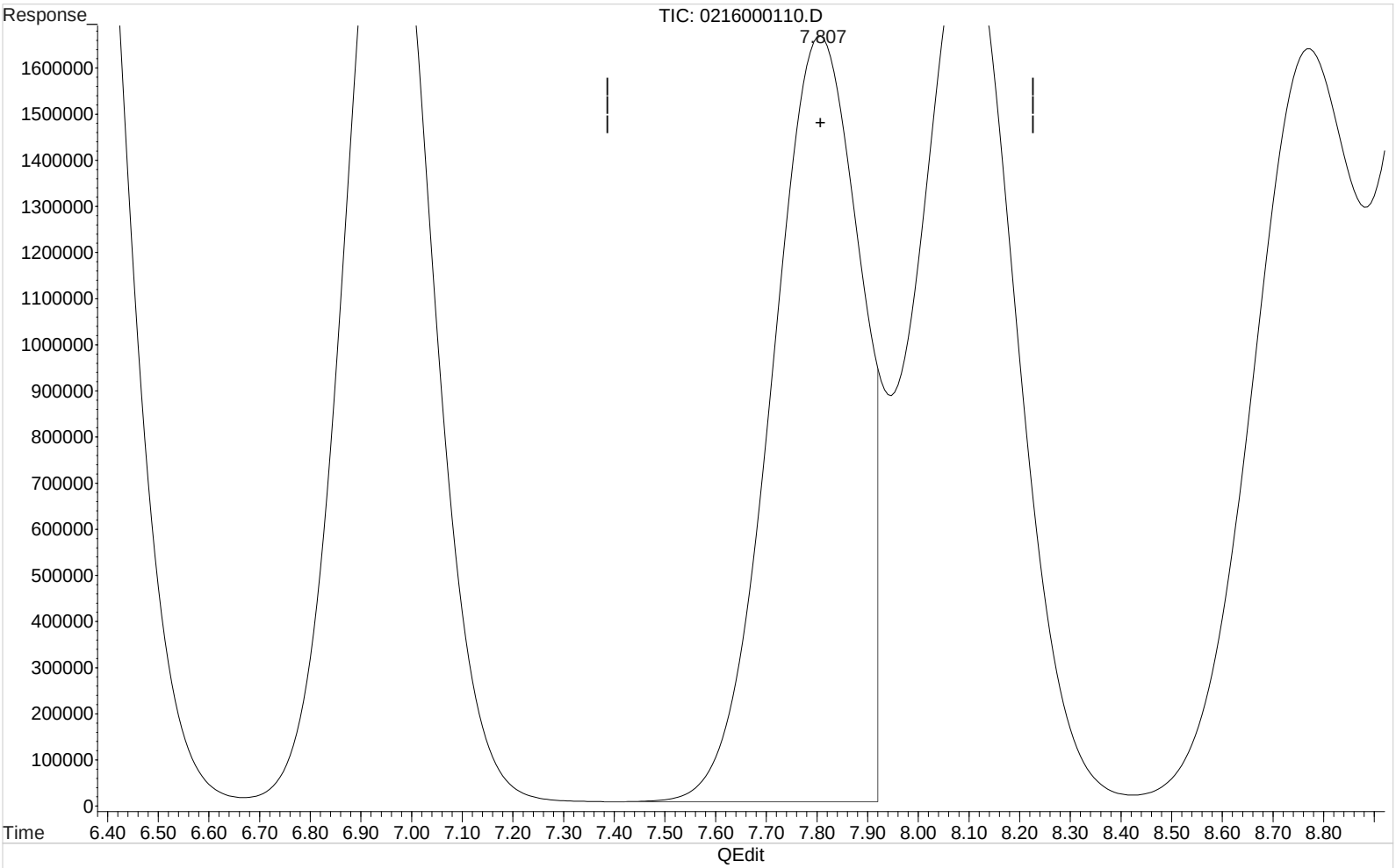


Quantitation Report (Qedit)

Data File : J:\LC08\Data\021617_XC-254\0216000110.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 16:46:29 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:20:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Feb 17 10:20:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.807min 868.680 ug/L

response 20249572

Manual Integration:

Before

02/17/17

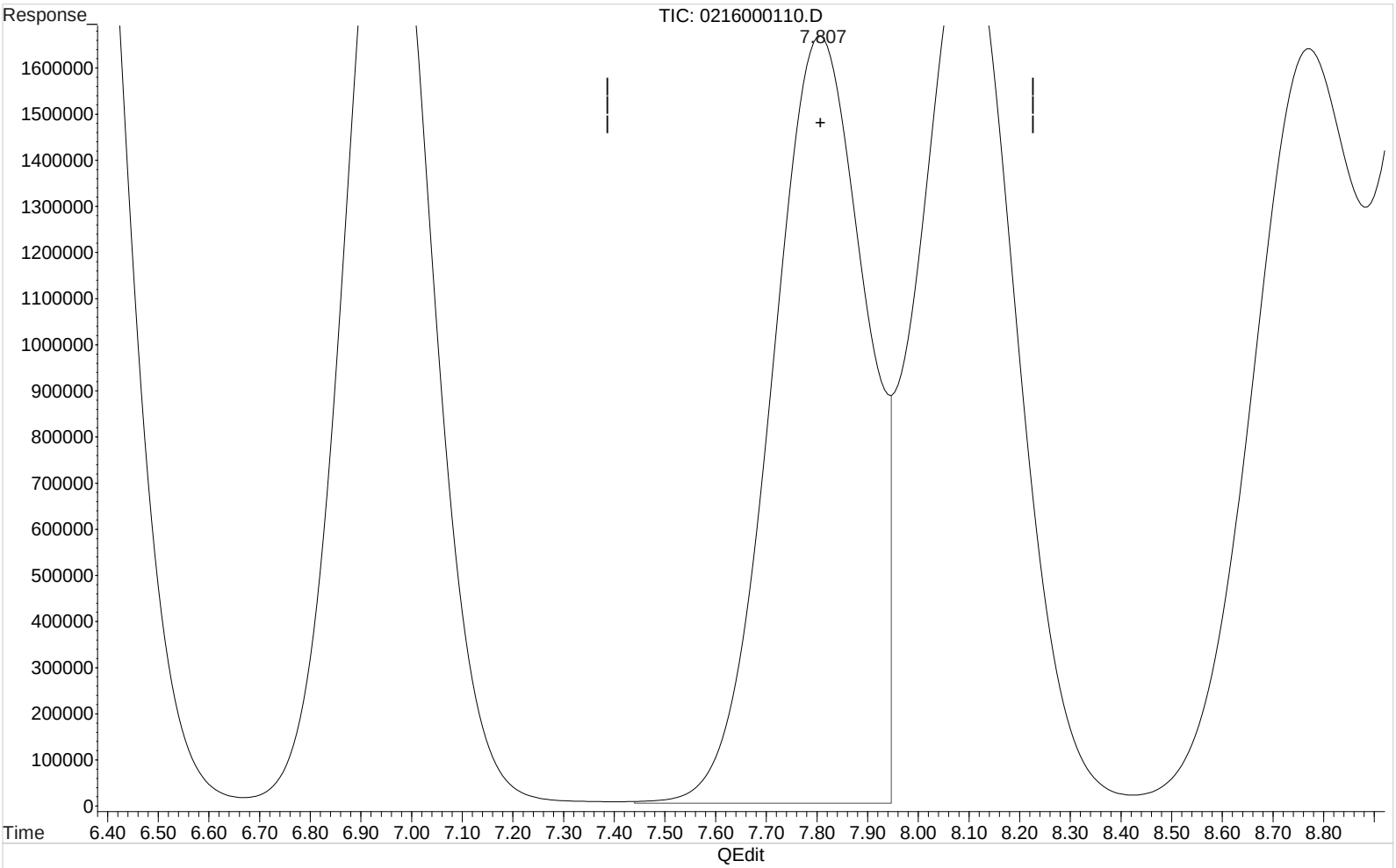
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\021617_XC-254\0216000110.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 16:46:29 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:20:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Feb 17 10:20:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(10) 4-NT (T)

7.807min 934.268 ug/L m

response 21778489

Manual Integration:

After

BLC

02/17/17

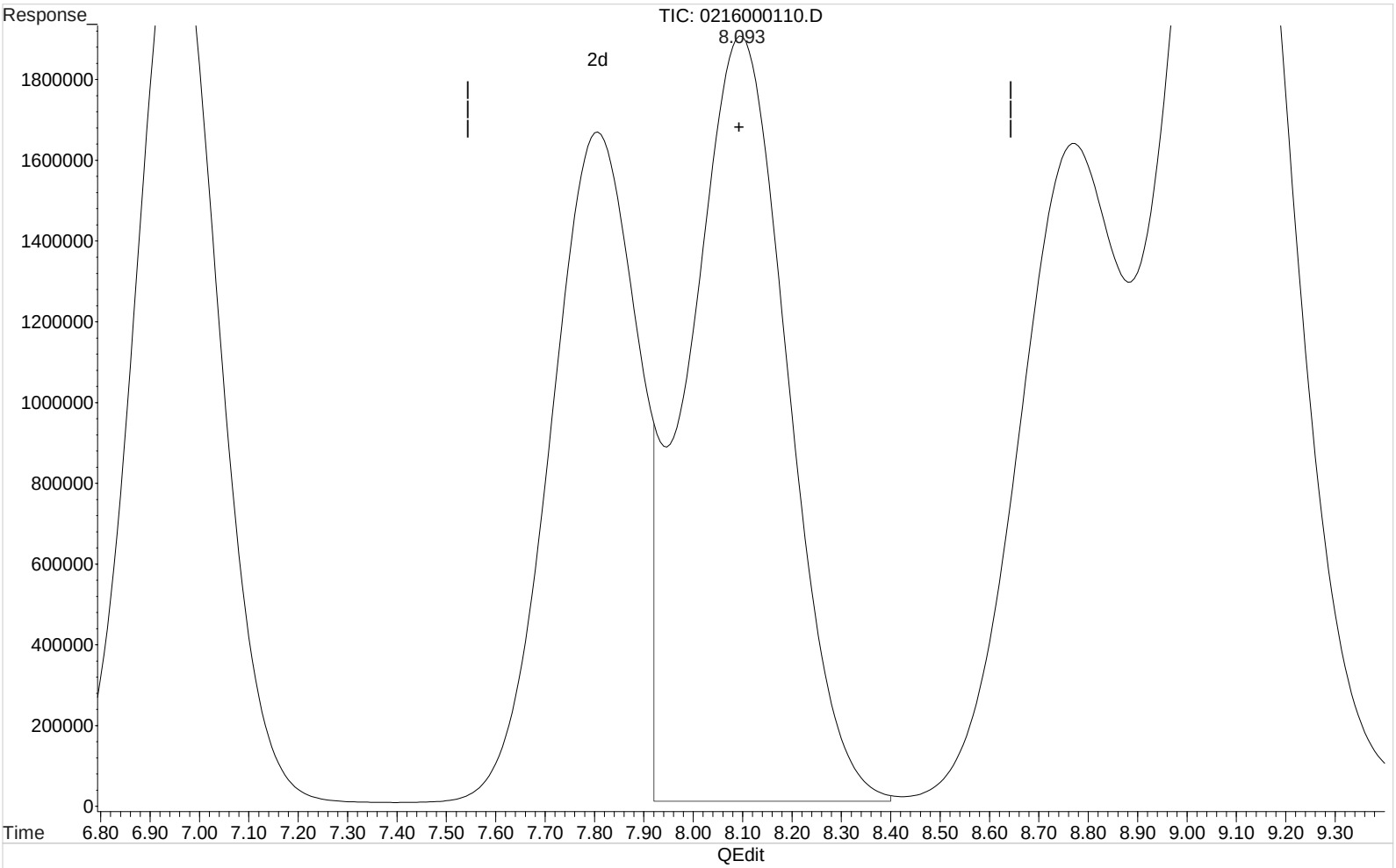
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\021617_XC-254\0216000110.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 16:46:29 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:20:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Feb 17 10:20:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(11) 1-Chloro-3-Nitrobenzene (S)

8.093min 1005.808 ug/L

response 26468906

Manual Integration:

Before

02/17/17

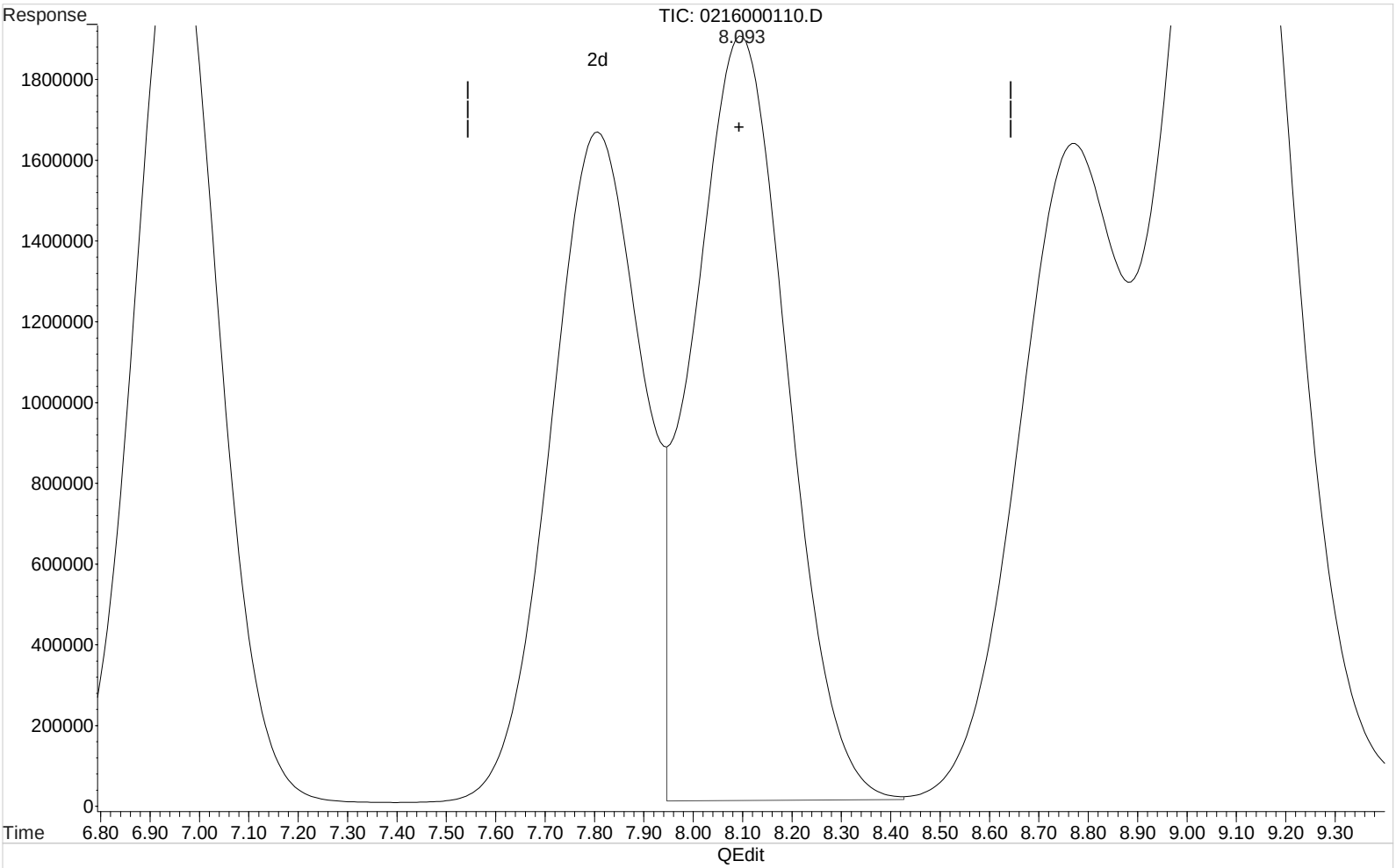
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\021617_XC-254\0216000110.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 16:46:29 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:20:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Feb 17 10:20:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(11) 1-Chloro-3-Nitrobenzene (S)

8.093min 949.692 ug/L m

response 24992167

Manual Integration:

After

BLC

02/17/17

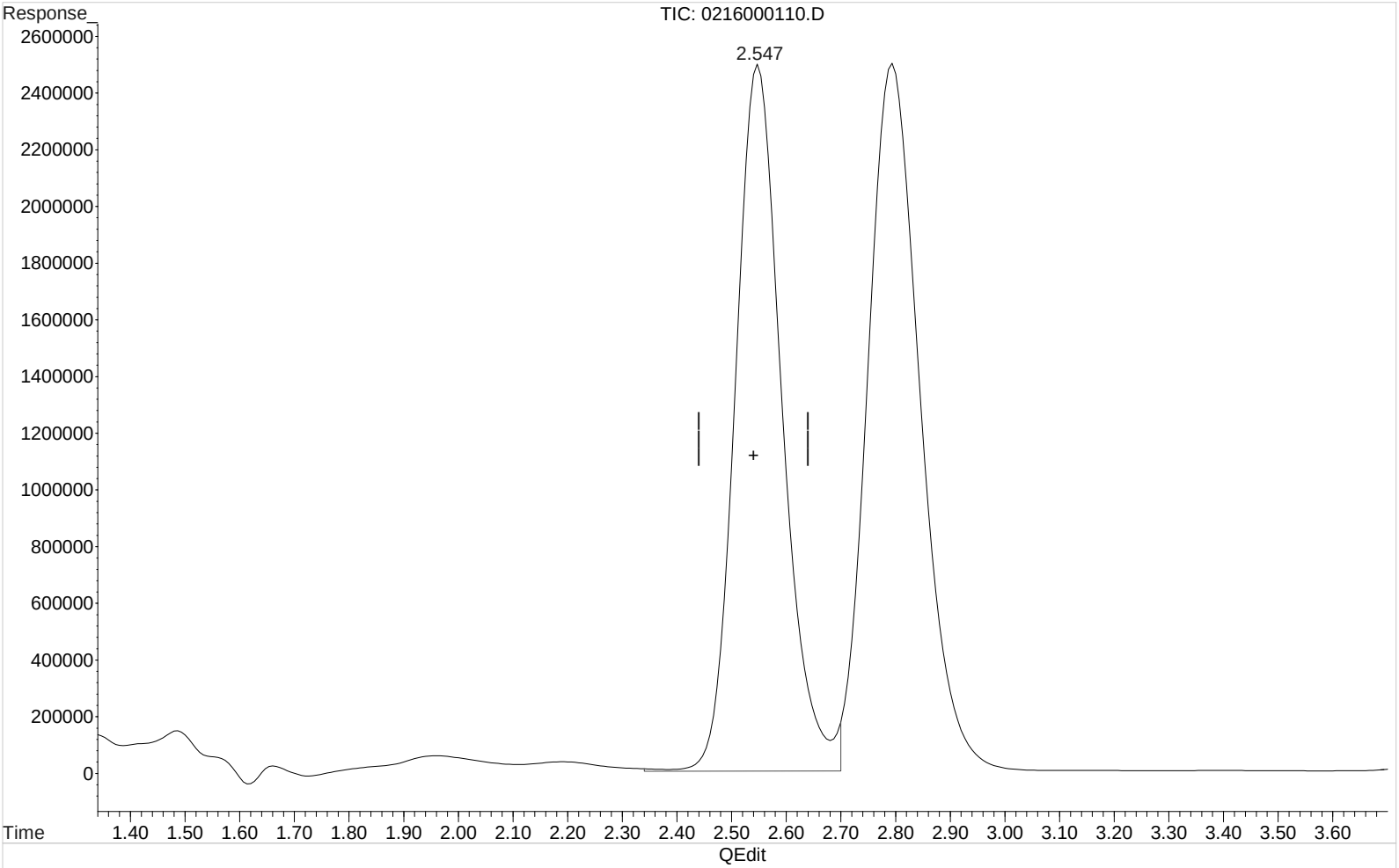
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\021617_XC-254\0216000110.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 16:46:29 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:20:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Feb 17 10:20:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.547min 956.626 ug/L

response 14910453

Manual Integration:

Before

02/17/17

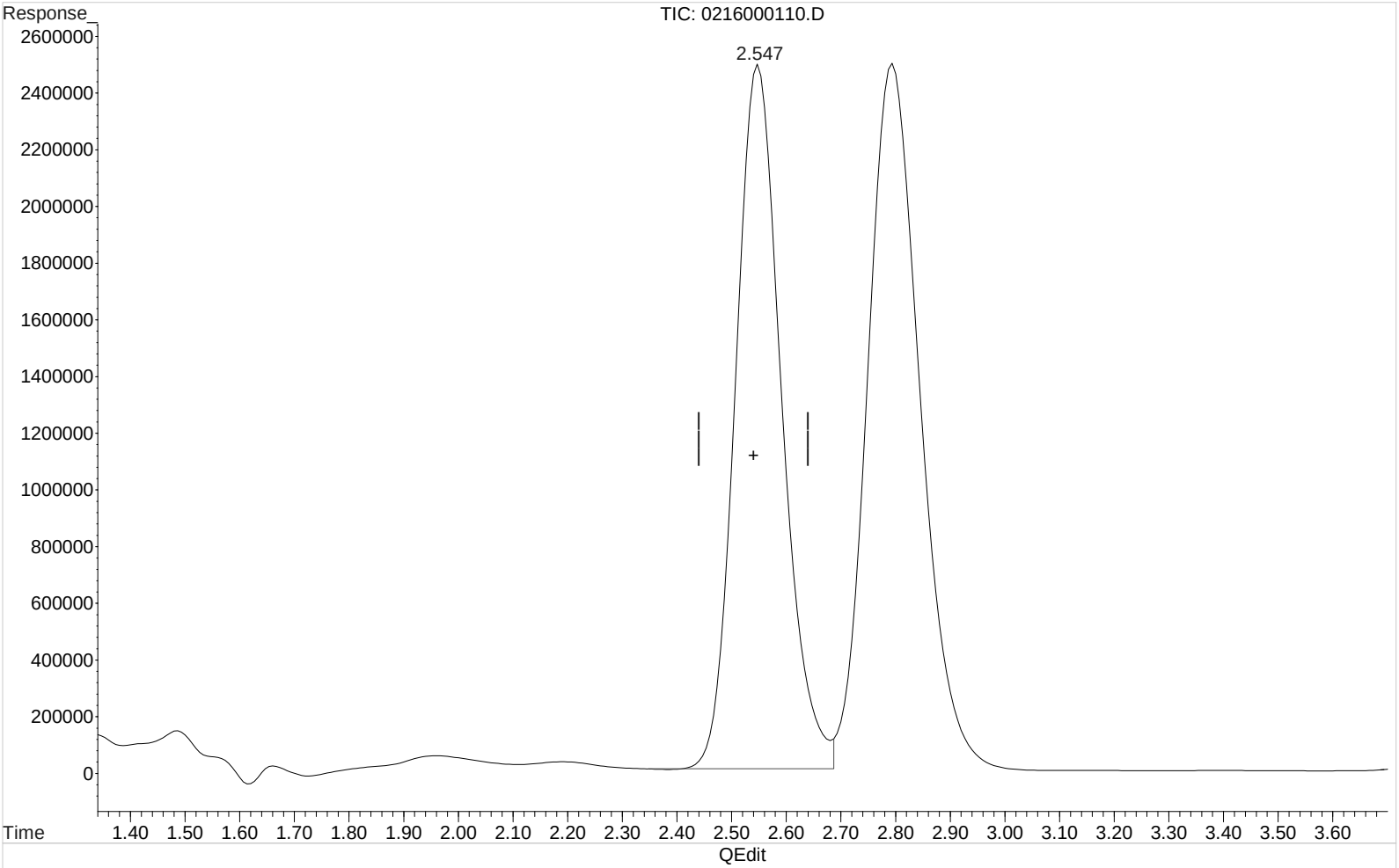
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\021617_XC-254\0216000110.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 16:46:29 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:20:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Feb 17 10:20:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.547min 937.298 ug/L m

response 14609194

Manual Integration:

After

BLC

02/17/17

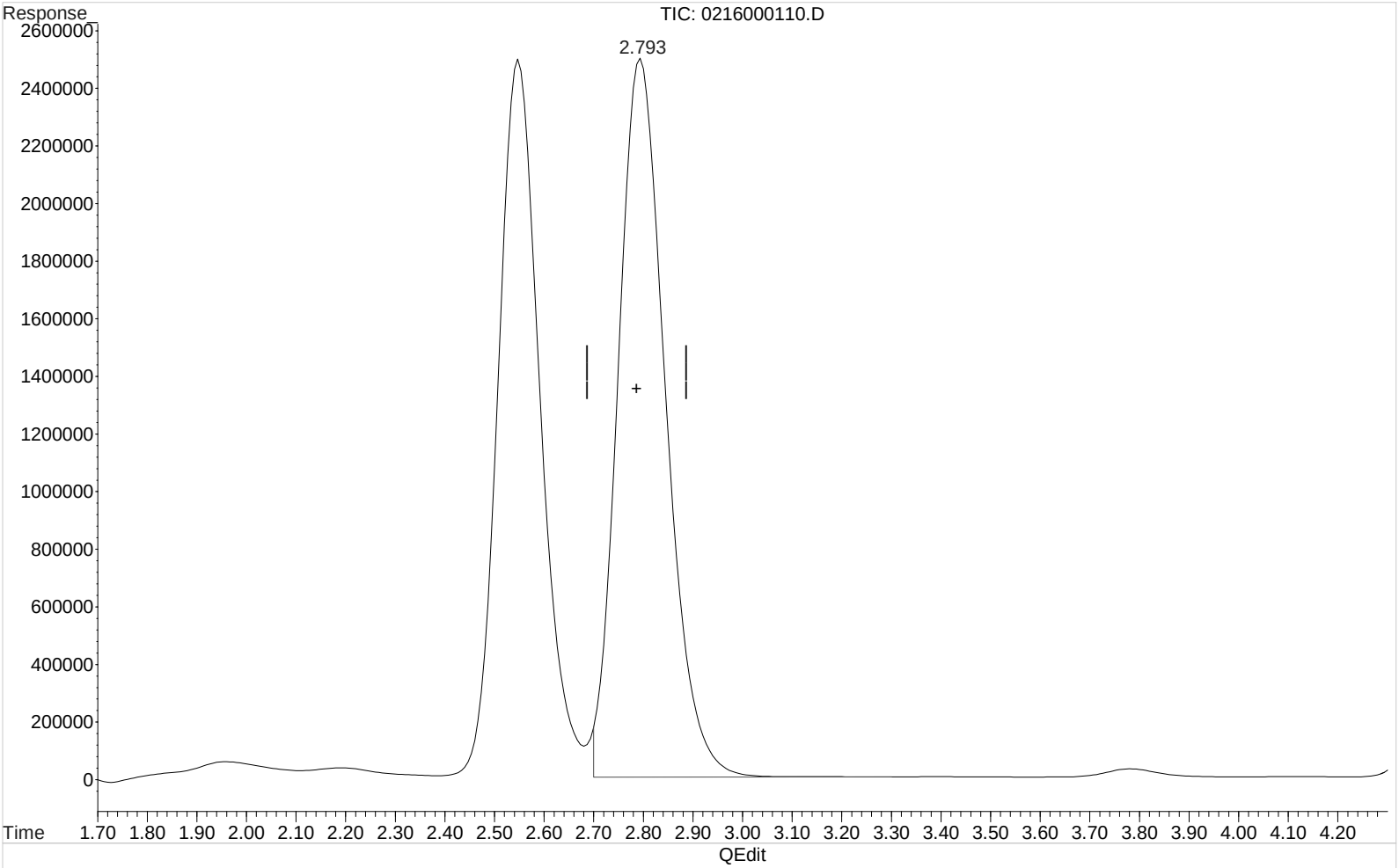
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\021617_XC-254\0216000110.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 16:46:29 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:20:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Feb 17 10:20:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.793min 892.965 ug/L

response 16609882

Manual Integration:

Before

02/17/17

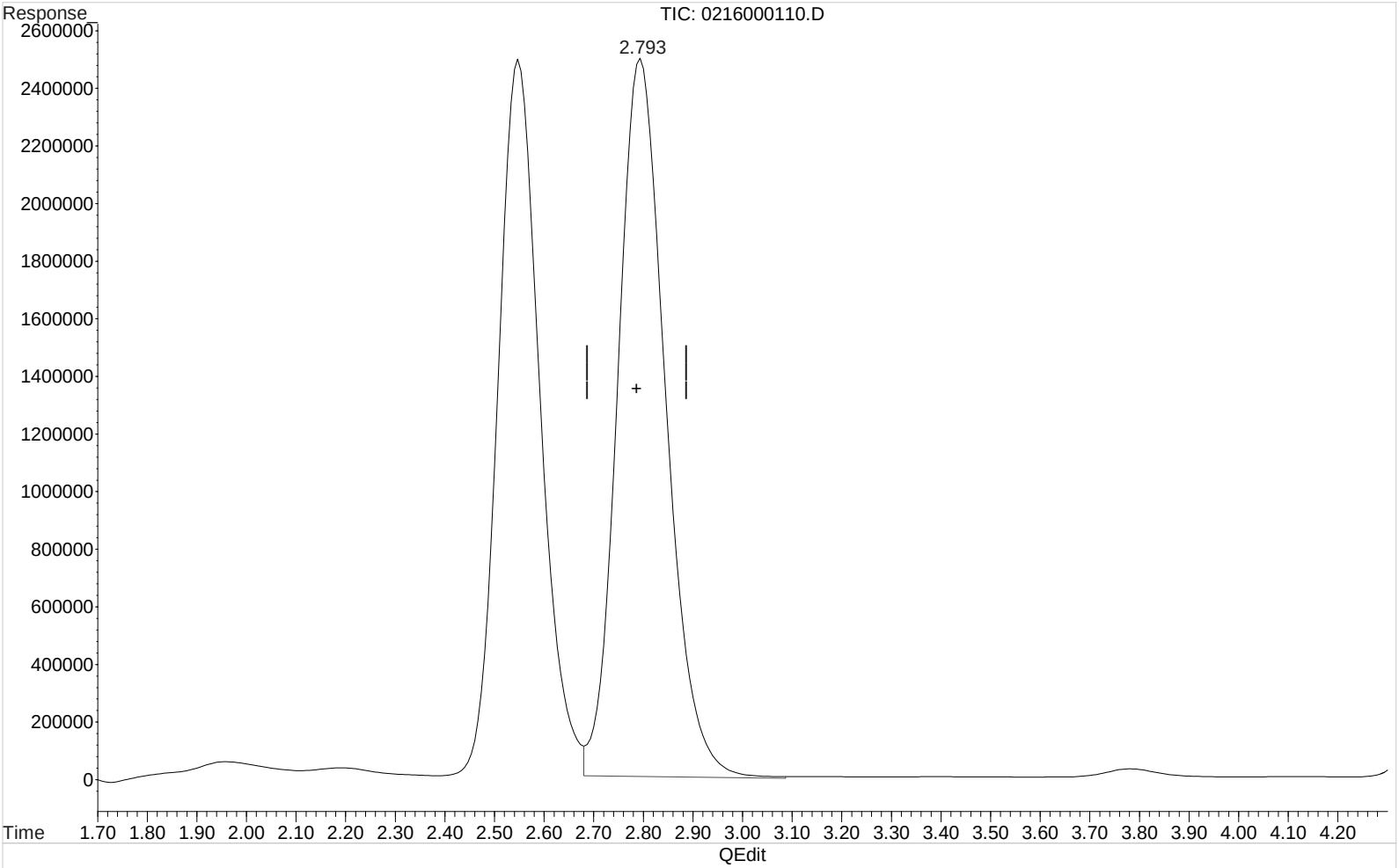
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\021617_XC-254\0216000110.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 16:46:29 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:20:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Feb 17 10:20:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.793min 900.489 ug/L m

response 16749848

Manual Integration:

After

BLC

02/17/17

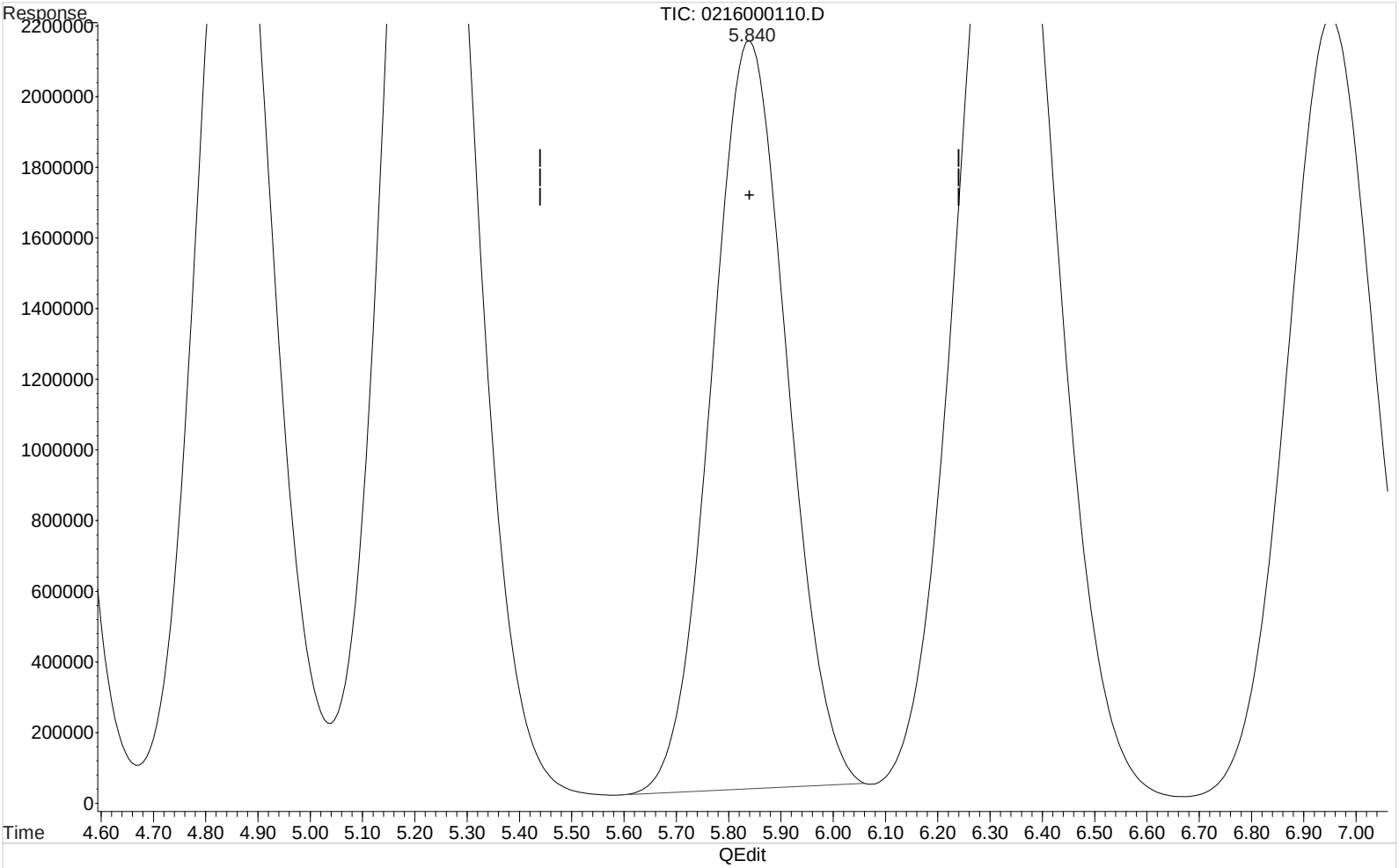
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\021617_XC-254\0216000110.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 16:46:29 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:20:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Feb 17 10:20:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.840min 909.309 ug/L

response 21418909

Manual Integration:

Before

02/17/17

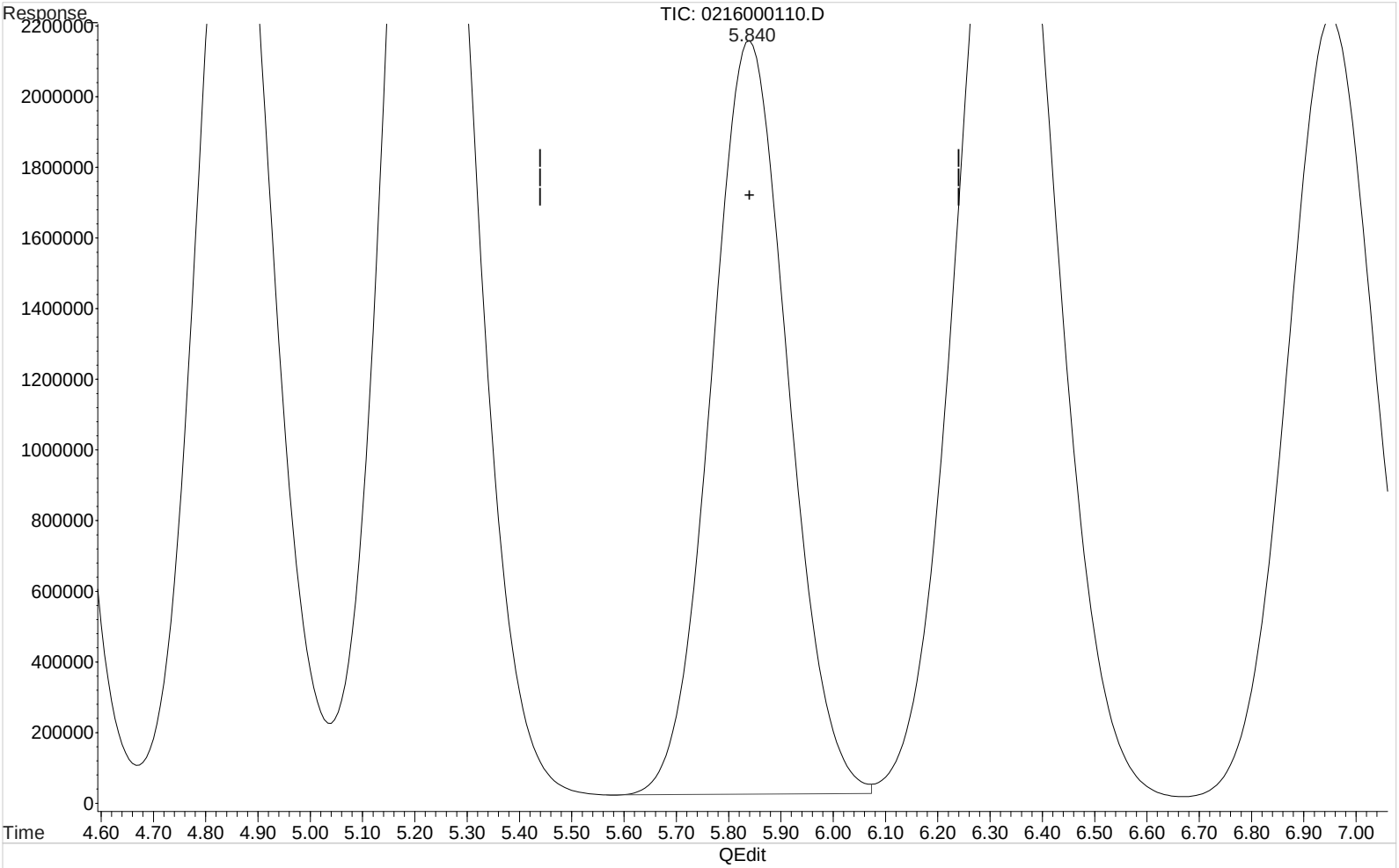
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\021617_XC-254\0216000110.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 16:46:29 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:20:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Feb 17 10:20:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.840min 927.370 ug/L m

response 21844329

Manual Integration:

After

BLC

02/17/17

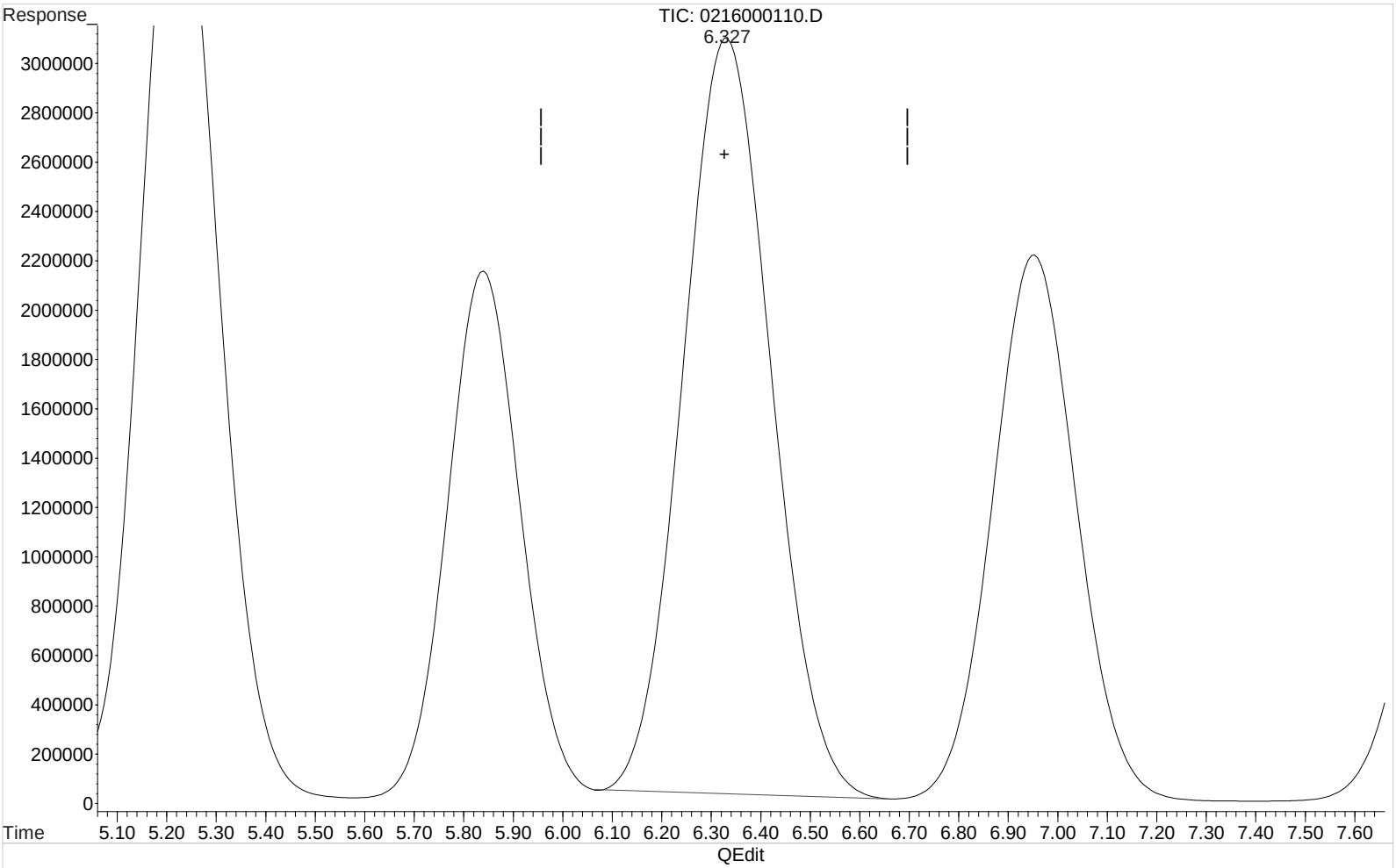
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\021617_XC-254\0216000110.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 16:46:29 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:20:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Feb 17 10:20:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.327min 902.231 ug/L

response 38063725

Manual Integration:

Before

02/17/17

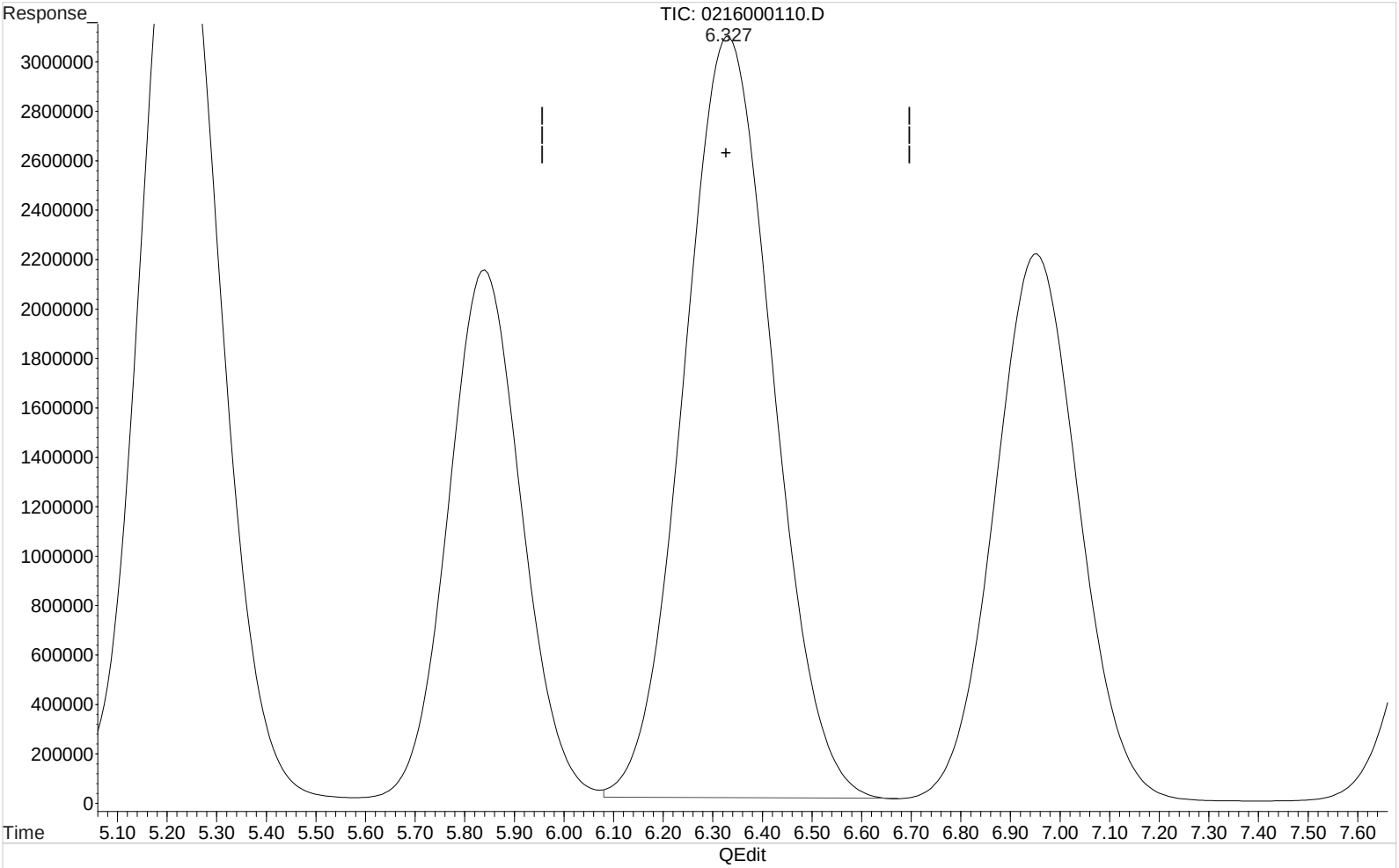
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\021617_XC-254\0216000110.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 16:46:29 Operator: AE
Sample : 17-OLC-01-12A 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:20:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Feb 17 10:20:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.327min 913.969 ug/L m

response 38558908

Manual Integration:

After

BLC

02/17/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000204.
Lab ID: KWG1701858-1
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 03/02/2017 13:48
Date Quantitated: 03/06/2017 16:14
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000204.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 13:48	**Quant Date:**	03/06/2017 16:14	**Vial:**	3
Run Type:	CCV	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-1			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.54		20308413	939.81		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX	4.75		11945998	997.58			
2,4-Diamino-6-nitrotoluene			0				
RDX	8.31		19708222	992.35			
1,3,5-Trinitrobenzene	10.41		44188660	989.31			
1,3-Dinitrobenzene	13.71		59096085	980.32			
3,5-Dinitroaniline	14.81		47160080	987.80			
TETRYL	15.41		32477164	972.38			
Nitrobenzene	16.05		37919359	982.00			
2,4,6-Trinitrotoluene	17.27		41315039	991.86			
4-Amino-2,6-dinitrotoluene	19.03		29646698	1,005			
2-Amino-4,6-dinitrotoluene	19.87		41233446	982.64			
2,6-Dinitrotoluene	21.57		25134626	1,027			
2,4-Dinitrotoluene	22.03		58169256	982.00			
2-Nitrotoluene	25.21		17965267	999.95			
4-Nitrotoluene	26.13		15618644	984.05			
3-Nitrotoluene	27.25		19836465	985.12			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000204.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 13:48	**Quant Date:**	03/06/2017 16:14	**Vial:**	3
Run Type:	CCV	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-1			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.54		20308413	939.81		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX	4.75		11945998	997.58			
2,4-Diamino-6-nitrotoluene			0				
RDX	8.31		19708222	992.35			
1,3,5-Trinitrobenzene	10.41		44188660	989.31			
1,3-Dinitrobenzene	13.71		59096085	980.32			
3,5-Dinitroaniline	14.81		47160080	987.80			
TETRYL	15.41		32477164	972.38			
Nitrobenzene	16.05		37919359	982.00			
2,4,6-Trinitrotoluene	17.27		41315039	991.86			
4-Amino-2,6-dinitrotoluene	19.03		29646698	1,005			
2-Amino-4,6-dinitrotoluene	19.87		41233446	982.64			
2,6-Dinitrotoluene	21.57		25134626	1,027			
2,4-Dinitrotoluene	22.03		58169256	982.00			
2-Nitrotoluene	25.21		17965267	999.95			
4-Nitrotoluene	26.13		15618644	984.05			
3-Nitrotoluene	27.25		19836465	985.12			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000204.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 13:48:42 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:26 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
18) S	1-Chloro-3-Nitrobenzene	29.539	20308413	939.805	ug/L
	Target Compounds				
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2) T	HMX	4.745	11945998	997.578	ug/L
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4) T	RDX	8.305	19708222	992.345	ug/L
5) T	1,3,5-TNB	10.405	44188660	989.309	ug/L
6) T	1,3-DNB	13.712	59096085	980.323	ug/L
7) T	3,5-Dinitroaniline	14.812	47160080	987.797	ug/L
8) T	Tetryl	15.412	32477164	972.380	ug/L
9) T	Nitrobenzene	16.045	37919359	982.003	ug/L
10) T	2,4,6-TNT	17.272	41315039	991.861	ug/L
11) T	4-Amino-2,6-DNT	19.032	29646698	1004.501	ug/L
12) T	2-Amino-4,6-DNT	19.865	41233446	982.637	ug/L
13) T	2,6-DNT	21.565	25134626	1027.466	ug/L
14) T	2,4-DNT	22.025	58169256	981.998	ug/L
15) T	2-NT	25.212	17965267	999.954	ug/L
16) T	4-NT	26.132	15618644	984.049	ug/L
17) T	3-NT	27.245	19836465	985.122	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] (9) (g) 3/14/17
3/29/17

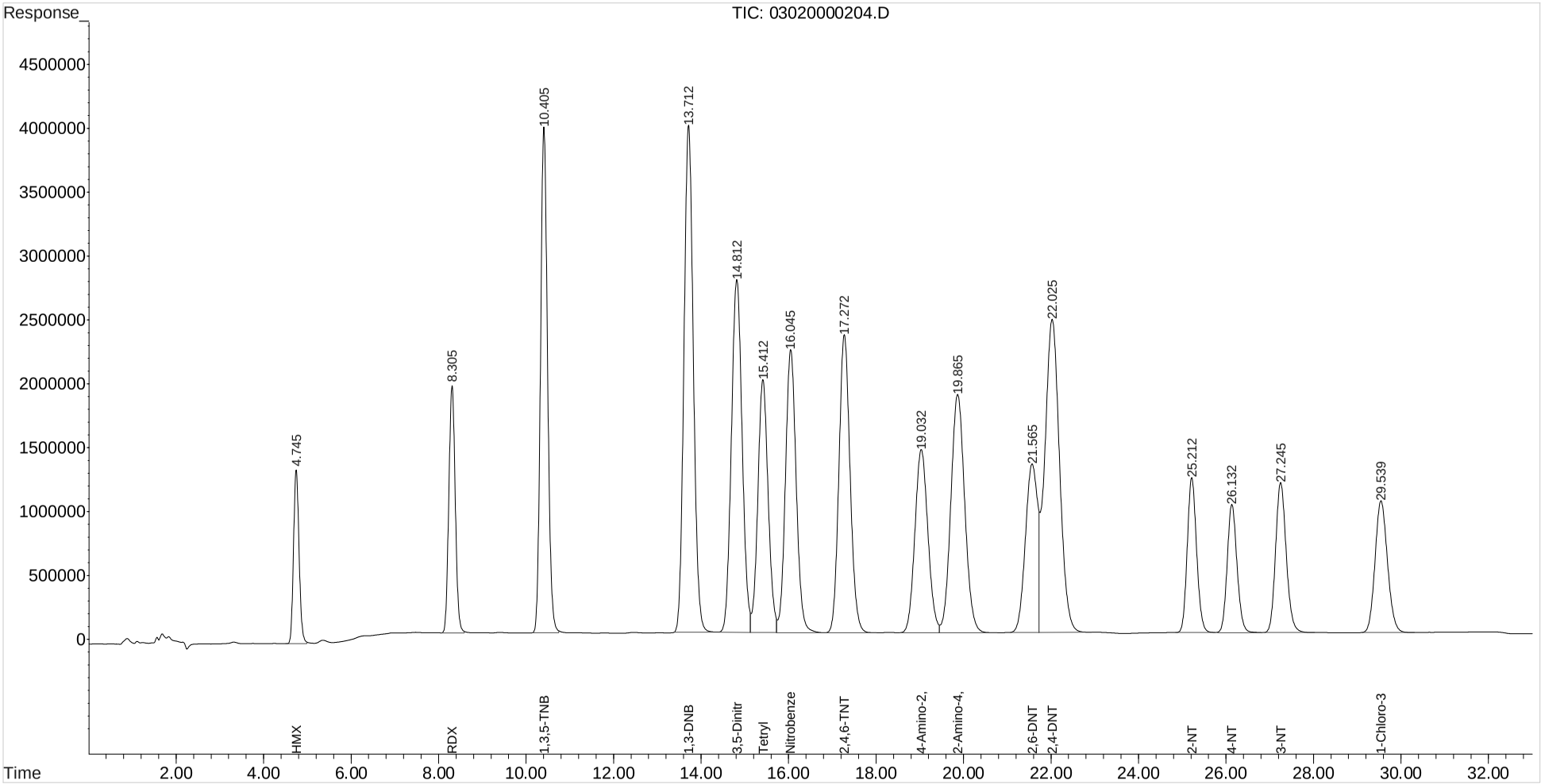
Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000204.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 13:48:42 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:26 2017
Quant Results File: 120716_8330B@254.RES

11/01/2018

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



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012527

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000204.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 13:48:42 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:26 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
18) S	1-Chloro-3-Nitrobenzene	29.539	20308413	939.805	ug/L
	Target Compounds				
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2) T	HMX	4.745	11945998	997.578	ug/L
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4) T	RDX	8.305	19708222	992.345	ug/L
5) T	1,3,5-TNB	10.405	44188660	989.309	ug/L
6) T	1,3-DNB	13.712	59096085	980.323	ug/L
7) T	3,5-Dinitroaniline	14.812	47160080	987.797	ug/L
8) T	Tetryl	15.412	32477164	972.380	ug/L
9) T	Nitrobenzene	16.045	37919359	982.003	ug/L
10) T	2,4,6-TNT	17.272	41315039	991.861	ug/L
11) T	4-Amino-2,6-DNT	19.032	29646698	1004.501	ug/L
12) T	2-Amino-4,6-DNT	19.865	41233446	982.637	ug/L
13) T	2,6-DNT	21.565	25134626	1027.466	ug/L
14) T	2,4-DNT	22.025	58169256	981.998	ug/L
15) T	2-NT	25.212	17965267	999.954	ug/L
16) T	4-NT	26.132	15618644	984.049	ug/L
17) T	3-NT	27.245	19836465	985.122	ug/L

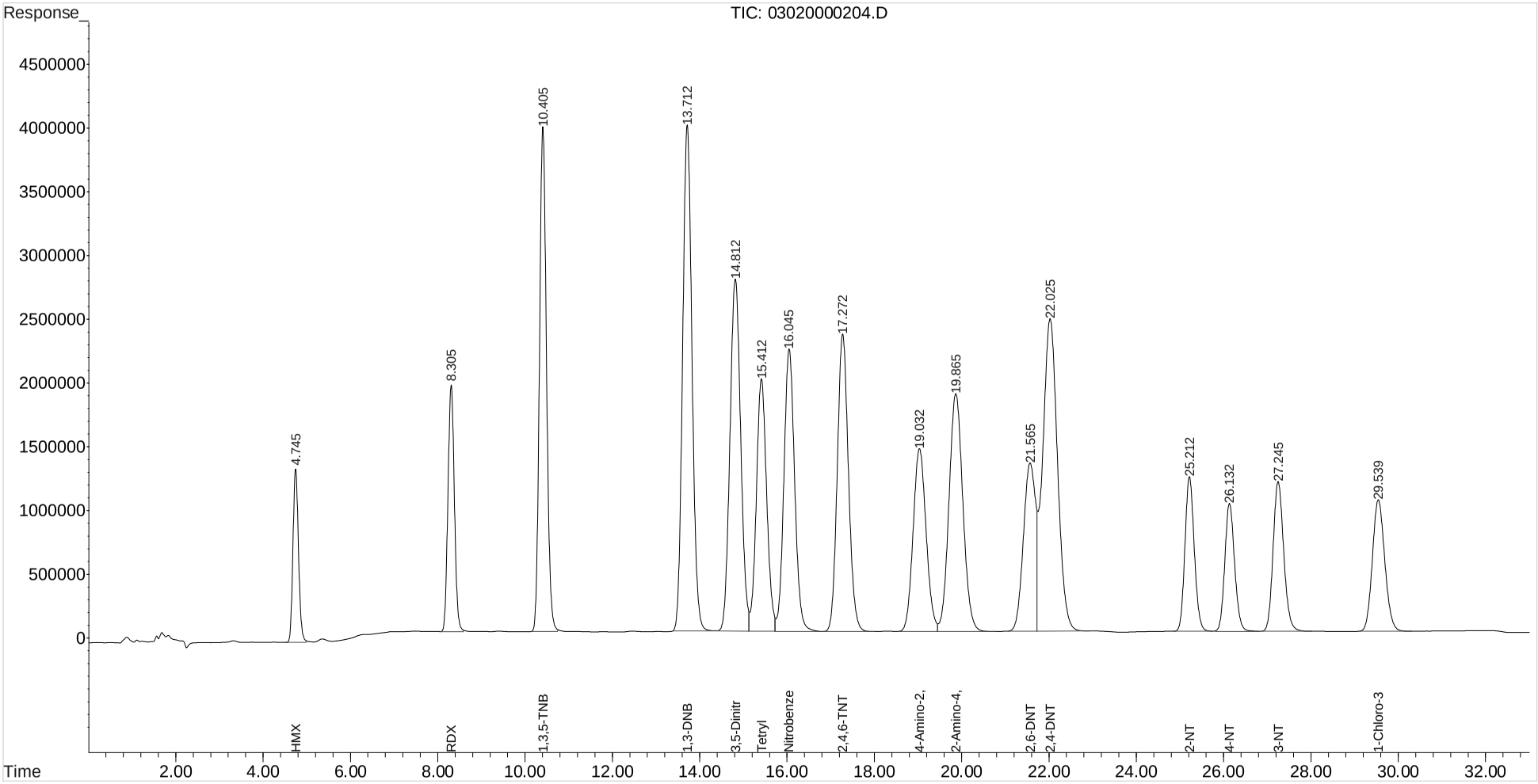
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000204.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 13:48:42 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:26 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000210.
Lab ID: KWG1701858-3
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 03/02/2017 17:26
Date Quantitated: 03/06/2017 16:32
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000210.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 17:26	**Quant Date:**	03/06/2017 16:32	**Vial:**	3
Run Type:	CCV	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-3			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.60		20590660	952.87		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX	4.76		12003545	1,002			
2,4-Diamino-6-nitrotoluene			0				
RDX	8.33		19515276	982.63			
1,3,5-Trinitrobenzene	10.44		44412968	994.33			
1,3-Dinitrobenzene	13.75		59948188	994.46			
3,5-Dinitroaniline	14.86		47291007	990.54			
TETRYL	15.44		32164939	963.03			
Nitrobenzene	16.08		37850246	980.21			
2,4,6-Trinitrotoluene	17.29		41599427	998.69			
4-Amino-2,6-dinitrotoluene	19.06		30247122	1,025			
2-Amino-4,6-dinitrotoluene	19.90		41889503	998.27			
2,6-Dinitrotoluene	21.59		26947120	1,102			
2,4-Dinitrotoluene	22.06		57432631	969.56			
2-Nitrotoluene	25.23		18043176	1,004			
4-Nitrotoluene	26.16		15589253	982.20			
3-Nitrotoluene	27.28		20730870**m**	1,030			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000210.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 17:26	**Quant Date:**	03/06/2017 16:32	**Vial:**	3
Run Type:	CCV	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701858-3			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.60		20590660	952.87		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX	4.76		12003545	1,002			
2,4-Diamino-6-nitrotoluene			0				
RDX	8.33		19515276	982.63			
1,3,5-Trinitrobenzene	10.44		44412968	994.33			
1,3-Dinitrobenzene	13.75		59948188	994.46			
3,5-Dinitroaniline	14.86		47291007	990.54			
TETRYL	15.44		32164939	963.03			
Nitrobenzene	16.08		37850246	980.21			
2,4,6-Trinitrotoluene	17.29		41599427	998.69			
4-Amino-2,6-dinitrotoluene	19.06		30247122	1,025			
2-Amino-4,6-dinitrotoluene	19.90		41889503	998.27			
2,6-Dinitrotoluene	21.59		26947120	1,102			
2,4-Dinitrotoluene	22.06		57432631	969.56			
2-Nitrotoluene	25.23		18043176	1,004			
4-Nitrotoluene	26.16		15589253	982.20			
3-Nitrotoluene	27.28		20730870**m**	1,030			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000210.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 17:26:04 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:32:33 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
18) S	1-Chloro-3-Nitrobenzene	29.596	20590660	952.867	ug/L	
	Target Compounds					
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2) T	HMX	4.756	12003545	1002.384	ug/L	
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4) T	RDX	8.330	19515276	982.630	ug/L	
5) T	1,3,5-TNB	10.436	44412968	994.331	ug/L	
6) T	1,3-DNB	13.750	59948188	994.458	ug/L	
7) T	3,5-Dinitroaniline	14.863	47291007	990.539	ug/L	
8) T	Tetryl	15.443	32164939	963.032	ug/L	
9) T	Nitrobenzene	16.076	37850246	980.213	ug/L	
10) T	2,4,6-TNT	17.290	41599427	998.689	ug/L	
11) T	4-Amino-2,6-DNT	19.063	30247122	1024.844	ug/L	
12) T	2-Amino-4,6-DNT	19.903	41889503	998.272	ug/L	
13) T	2,6-DNT	21.590	26947120	1101.558	ug/L	
14) T	2,4-DNT	22.056	57432631	969.563	ug/L	
15) T	2-NT	25.230	18043176	1004.291	ug/L	
16) T	4-NT	26.156	15589253	982.197	ug/L	
17) T	3-NT	27.283	20730870	1029.540	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] 3/14/17
(g) (g) 3/29/17

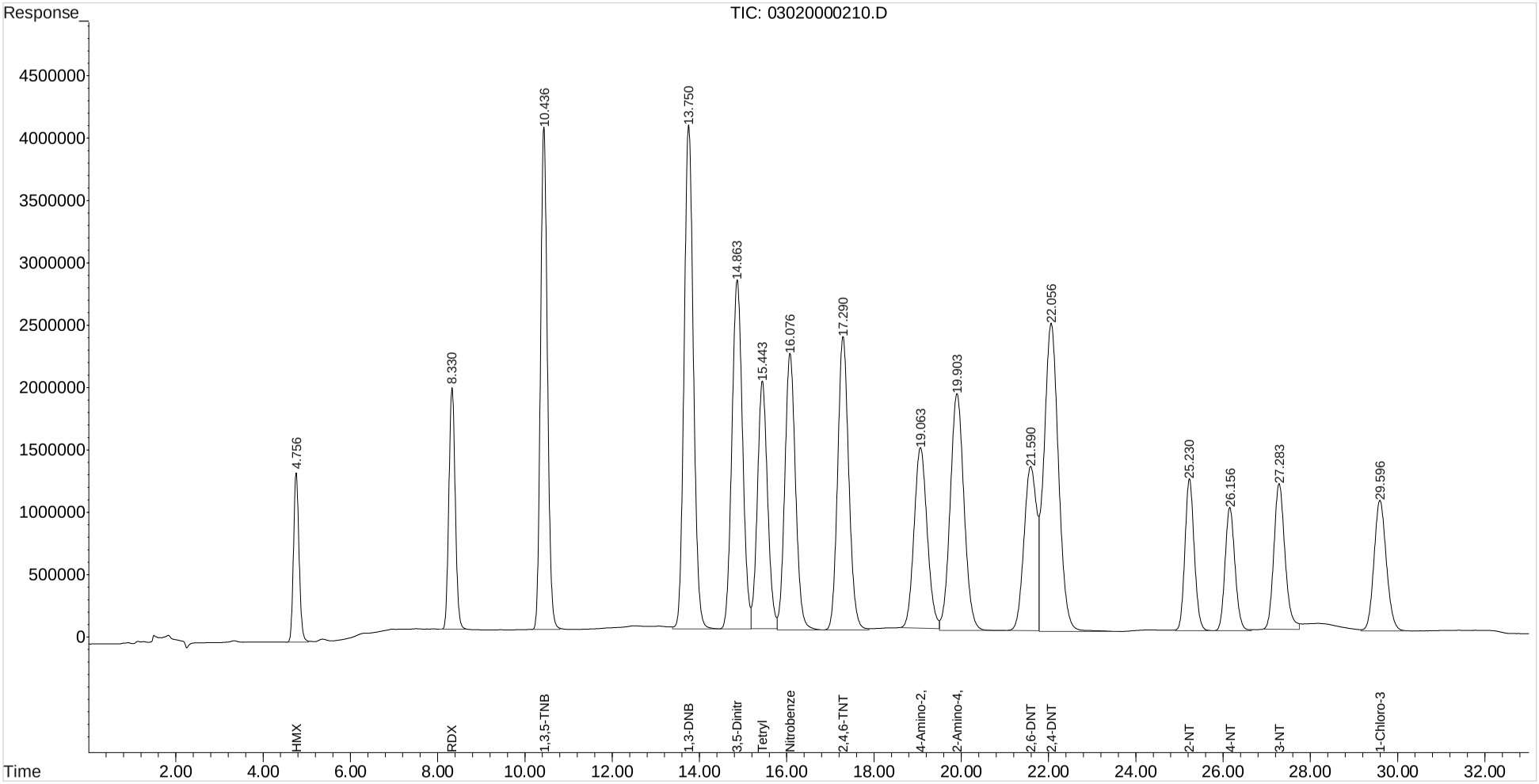
Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000210.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 17:26:04 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:32:33 2017
Quant Results File: 120716_8330B@254.RES

11/01/2018

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



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(b) (6)

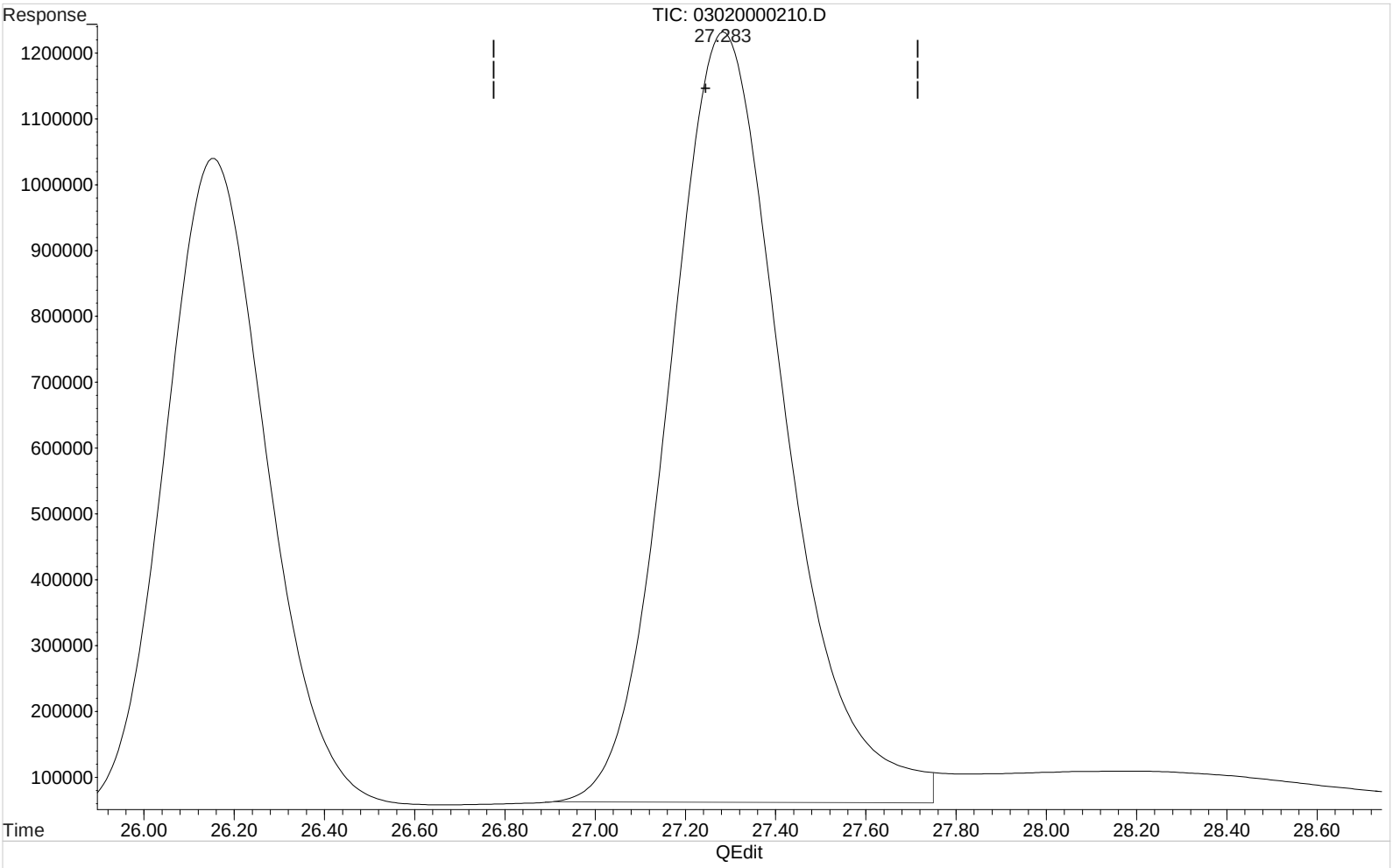
03/29/17

03/29/17

Data File: J:\LC10\Data\030317_8330_254\03020000210.D
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 17:26:04
Operator : BR
Sample : 17-OLC-01-15H 1 PPM
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: RTEINT.P
Quant Time: Mar 06 16:14:38 2017
Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
Integrator: RTE

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.283min 1029.540 ug/L m

response 20730870

No Before

Manual Integration:

After

Baseline/Shoulder

03/29/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000221.
Lab ID: KWG1701858-5
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 00:04
Date Quantitated: 03/06/2017 16:15
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000221.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 00:04	**Quant Date:**	03/06/2017 16:15	**Vial:**	3
Run Type:	CCV	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-5			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.67		20644578	955.36		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX	4.76		12034184	1,005			
2,4-Diamino-6-nitrotoluene			0				
RDX	8.33		19643561	989.09			
1,3,5-Trinitrobenzene	10.45		44341650	992.73			
1,3-Dinitrobenzene	13.79		60161737	998.00			
3,5-Dinitroaniline	14.90		47509988	995.13			
TETRYL	15.50		31864991	954.05			
Nitrobenzene	16.12		37730499	977.11			
2,4,6-Trinitrotoluene	17.35		41510073	996.54			
4-Amino-2,6-dinitrotoluene	19.15		30002366	1,017			
2-Amino-4,6-dinitrotoluene	19.98		41846440	997.25			
2,6-Dinitrotoluene	21.70		27517517	1,125			
2,4-Dinitrotoluene	22.17		57065719	963.37			
2-Nitrotoluene	25.30		17927847	997.87			
4-Nitrotoluene	26.23		15649711	986.01			
3-Nitrotoluene	27.36		20708832	1,028			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000221.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 00:04	**Quant Date:**	03/06/2017 16:15	**Vial:**	3
Run Type:	CCV	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701858-5			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.67		20644578	955.36		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX	4.76		12034184	1,005			
2,4-Diamino-6-nitrotoluene			0				
RDX	8.33		19643561	989.09			
1,3,5-Trinitrobenzene	10.45		44341650	992.73			
1,3-Dinitrobenzene	13.79		60161737	998.00			
3,5-Dinitroaniline	14.90		47509988	995.13			
TETRYL	15.50		31864991	954.05			
Nitrobenzene	16.12		37730499	977.11			
2,4,6-Trinitrotoluene	17.35		41510073	996.54			
4-Amino-2,6-dinitrotoluene	19.15		30002366	1,017			
2-Amino-4,6-dinitrotoluene	19.98		41846440	997.25			
2,6-Dinitrotoluene	21.70		27517517	1,125			
2,4-Dinitrotoluene	22.17		57065719	963.37			
2-Nitrotoluene	25.30		17927847	997.87			
4-Nitrotoluene	26.23		15649711	986.01			
3-Nitrotoluene	27.36		20708832	1,028			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000221.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 00:04	**Quant Date:**	03/06/2017 16:15	**Vial:**	3
Run Type:	CCV	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-5			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.67		20644578	955.36		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX	4.76		12034184	1,005			
2,4-Diamino-6-nitrotoluene			0				
RDX	8.33		19643561	989.09			
1,3,5-Trinitrobenzene	10.45		44341650	992.73			
1,3-Dinitrobenzene	13.79		60161737	998.00			
3,5-Dinitroaniline	14.90		47509988	995.13			
TETRYL	15.50		31864991	954.05			
Nitrobenzene	16.12		37730499	977.11			
2,4,6-Trinitrotoluene	17.35		41510073	996.54			
4-Amino-2,6-dinitrotoluene	19.15		30002366	1,017			
2-Amino-4,6-dinitrotoluene	19.98		41846440	997.25			
2,6-Dinitrotoluene	21.70		27517517	1,125			
2,4-Dinitrotoluene	22.17		57065719	963.37			
2-Nitrotoluene	25.30		17927847	997.87			
4-Nitrotoluene	26.23		15649711	986.01			
3-Nitrotoluene	27.36		20708832	1,028			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000221.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 00:04:39 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:01 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
18) S	1-Chloro-3-Nitrobenzene	29.669	20644578	955.362	ug/L
	Target Compounds				
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2) T	HMX	4.755	12034184	1004.942	ug/L
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4) T	RDX	8.329	19643561	989.089	ug/L
5) T	1,3,5-TNB	10.449	44341650	992.734	ug/L
6) T	1,3-DNB	13.789	60161737	998.000	ug/L
7) T	3,5-Dinitroaniline	14.902	47509988	995.126	ug/L
8) T	Tetryl	15.502	31864991	954.052	ug/L
9) T	Nitrobenzene	16.122	37730499	977.112	ug/L
10) T	2,4,6-TNT	17.349	41510073	996.544	ug/L
11) T	4-Amino-2,6-DNT	19.149	30002366	1016.551	ug/L
12) T	2-Amino-4,6-DNT	19.982	41846440	997.245	ug/L
13) T	2,6-DNT	21.702	27517517	1124.875	ug/L
14) T	2,4-DNT	22.169	57065719	963.369	ug/L
15) T	2-NT	25.302	17927847	997.872	ug/L
16) T	4-NT	26.229	15649711	986.006	ug/L
17) T	3-NT	27.355	20708832	1028.446	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] (g), (g) 3/14/17
3/29/17

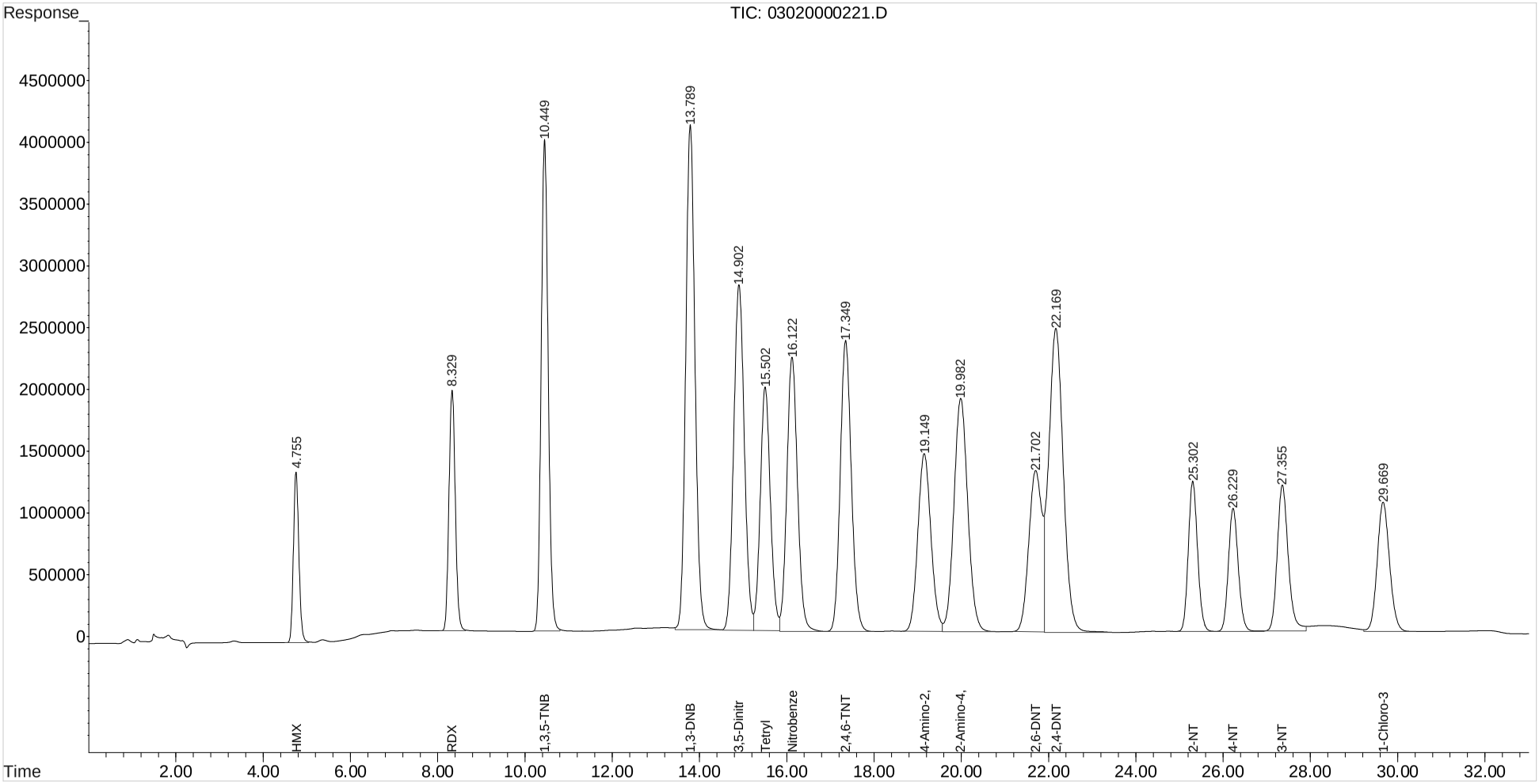
Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000221.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 00:04:39 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:01 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

11/01/2018



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Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000227.
Lab ID: KWG1701858-7
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 03:42
Date Quantitated: 03/06/2017 16:15
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000227.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 03:42	**Quant Date:**	03/06/2017 16:15	**Vial:**	4
Run Type:	CCV	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-7			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.61		20989154	971.31		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX	4.75		12071624	1,008			
2,4-Diamino-6-nitrotoluene			0				
RDX	8.31		19618967	987.85			
1,3,5-Trinitrobenzene	10.43		44610262	998.75			
1,3-Dinitrobenzene	13.76		60558626	1,005			
3,5-Dinitroaniline	14.89		47910758	1,004			
TETRYL	15.49		32068609	960.15			
Nitrobenzene	16.11		37914569	981.88			
2,4,6-Trinitrotoluene	17.33		41685585	1,001			
4-Amino-2,6-dinitrotoluene	19.12		32118896	1,088			
2-Amino-4,6-dinitrotoluene	19.95		44570570	1,062			
2,6-Dinitrotoluene	21.64		27596794	1,128			
2,4-Dinitrotoluene	22.10		57329464	967.82			
2-Nitrotoluene	25.26		18034786	1,004			
4-Nitrotoluene	26.18		15732568	991.23			
3-Nitrotoluene	27.29		20572760	1,022			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000227.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 03:42	**Quant Date:**	03/06/2017 16:15	**Vial:**	4
Run Type:	CCV	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701858-7			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.61		20989154	971.31		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX	4.75		12071624	1,008			
2,4-Diamino-6-nitrotoluene			0				
RDX	8.31		19618967	987.85			
1,3,5-Trinitrobenzene	10.43		44610262	998.75			
1,3-Dinitrobenzene	13.76		60558626	1,005			
3,5-Dinitroaniline	14.89		47910758	1,004			
TETRYL	15.49		32068609	960.15			
Nitrobenzene	16.11		37914569	981.88			
2,4,6-Trinitrotoluene	17.33		41685585	1,001			
4-Amino-2,6-dinitrotoluene	19.12		32118896	1,088			
2-Amino-4,6-dinitrotoluene	19.95		44570570	1,062			
2,6-Dinitrotoluene	21.64		27596794	1,128			
2,4-Dinitrotoluene	22.10		57329464	967.82			
2-Nitrotoluene	25.26		18034786	1,004			
4-Nitrotoluene	26.18		15732568	991.23			
3-Nitrotoluene	27.29		20572760	1,022			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000227.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 03:42	**Quant Date:**	03/06/2017 16:15	**Vial:**	4
Run Type:	CCV	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-7			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.61		20989154	971.31		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX	4.75		12071624	1,008			
2,4-Diamino-6-nitrotoluene			0				
RDX	8.31		19618967	987.85			
1,3,5-Trinitrobenzene	10.43		44610262	998.75			
1,3-Dinitrobenzene	13.76		60558626	1,005			
3,5-Dinitroaniline	14.89		47910758	1,004			
TETRYL	15.49		32068609	960.15			
Nitrobenzene	16.11		37914569	981.88			
2,4,6-Trinitrotoluene	17.33		41685585	1,001			
4-Amino-2,6-dinitrotoluene	19.12		32118896	1,088			
2-Amino-4,6-dinitrotoluene	19.95		44570570	1,062			
2,6-Dinitrotoluene	21.64		27596794	1,128			
2,4-Dinitrotoluene	22.10		57329464	967.82			
2-Nitrotoluene	25.26		18034786	1,004			
4-Nitrotoluene	26.18		15732568	991.23			
3-Nitrotoluene	27.29		20572760	1,022			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000227.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 03:42:07 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:13 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	29.608	20989154	971.307	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	4.748	12071624	1008.069	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	8.315	19618967	987.851	ug/L
5)	T	1,3,5-TNB	10.428	44610262	998.748	ug/L
6)	T	1,3-DNB	13.761	60558626	1004.584	ug/L
7)	T	3,5-Dinitroaniline	14.888	47910758	1003.520	ug/L
8)	T	Tetryl	15.488	32068609	960.148	ug/L
9)	T	Nitrobenzene	16.115	37914569	981.879	ug/L
10)	T	2,4,6-TNT	17.335	41685585	1000.757	ug/L
11)	T	4-Amino-2,6-DNT	19.121	32118896	1088.264	ug/L
12)	T	2-Amino-4,6-DNT	19.955	44570570	1062.164	ug/L
13)	T	2,6-DNT	21.641	27596794	1128.115	ug/L
14)	T	2,4-DNT	22.101	57329464	967.821	ug/L
15)	T	2-NT	25.261	18034786	1003.824	ug/L
16)	T	4-NT	26.181	15732568	991.226	ug/L
17)	T	3-NT	27.295	20572760	1021.688	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] (g) (g) 03/14/17
03/29/17

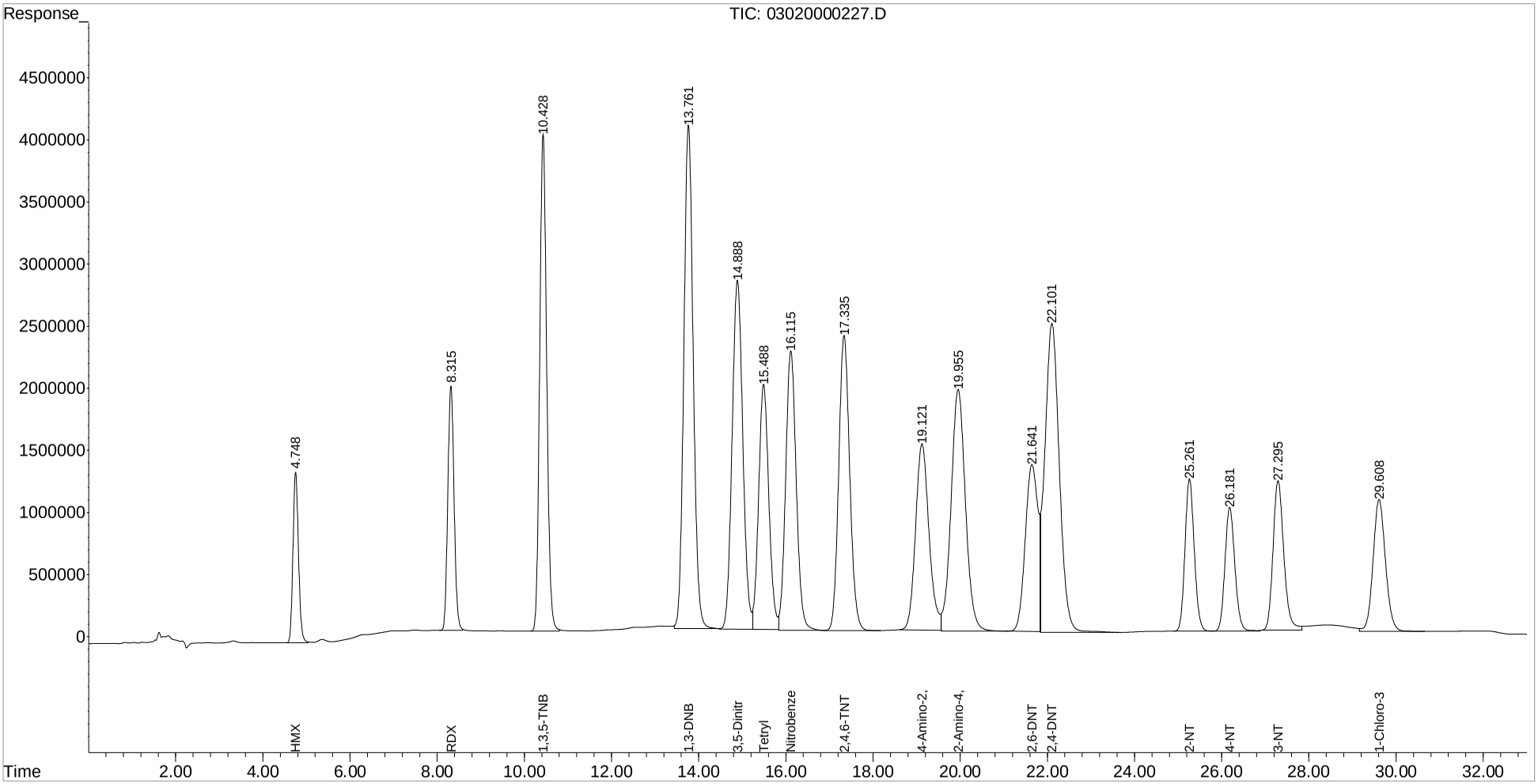
Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000227.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 03:42:07 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:13 2017
Quant Results File: 120716_8330B@254.RES

11/01/2018

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



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Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000234.
Lab ID: KWG1701858-9
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 07:55
Date Quantitated: 03/06/2017 16:15
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000234.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 07:55	**Quant Date:**	03/06/2017 16:15	**Vial:**	3
Run Type:	CCV	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-9			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.61		20965426	970.21		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX	4.75		12109040	1,011			
2,4-Diamino-6-nitrotoluene			0				
RDX	8.33		19736600	993.77			
1,3,5-Trinitrobenzene	10.43		44550543	997.41			
1,3-Dinitrobenzene	13.76		60693678	1,007			
3,5-Dinitroaniline	14.87		47862152	1,003			
TETRYL	15.47		31120974	931.78			
Nitrobenzene	16.09		37953832	982.90			
2,4,6-Trinitrotoluene	17.31		41714134	1,001			
4-Amino-2,6-dinitrotoluene	19.09		30210082	1,024			
2-Amino-4,6-dinitrotoluene	19.92		42227832	1,006			
2,6-Dinitrotoluene	21.61		26076740	1,066			
2,4-Dinitrotoluene	22.08		59291557	1,001			
2-Nitrotoluene	25.24		17915501	997.18			
4-Nitrotoluene	26.16		15546871	979.53			
3-Nitrotoluene	27.29		20653636	1,026			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000234.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 07:55	**Quant Date:**	03/06/2017 16:15	**Vial:**	3
Run Type:	CCV	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701858-9			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.61		20965426	970.21		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX	4.75		12109040	1,011			
2,4-Diamino-6-nitrotoluene			0				
RDX	8.33		19736600	993.77			
1,3,5-Trinitrobenzene	10.43		44550543	997.41			
1,3-Dinitrobenzene	13.76		60693678	1,007			
3,5-Dinitroaniline	14.87		47862152	1,003			
TETRYL	15.47		31120974	931.78			
Nitrobenzene	16.09		37953832	982.90			
2,4,6-Trinitrotoluene	17.31		41714134	1,001			
4-Amino-2,6-dinitrotoluene	19.09		30210082	1,024			
2-Amino-4,6-dinitrotoluene	19.92		42227832	1,006			
2,6-Dinitrotoluene	21.61		26076740	1,066			
2,4-Dinitrotoluene	22.08		59291557	1,001			
2-Nitrotoluene	25.24		17915501	997.18			
4-Nitrotoluene	26.16		15546871	979.53			
3-Nitrotoluene	27.29		20653636	1,026			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000234.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 07:55	**Quant Date:**	03/06/2017 16:15	**Vial:**	3
Run Type:	CCV	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-9			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.61		20965426	970.21		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX	4.75		12109040	1,011			
2,4-Diamino-6-nitrotoluene			0				
RDX	8.33		19736600	993.77			
1,3,5-Trinitrobenzene	10.43		44550543	997.41			
1,3-Dinitrobenzene	13.76		60693678	1,007			
3,5-Dinitroaniline	14.87		47862152	1,003			
TETRYL	15.47		31120974	931.78			
Nitrobenzene	16.09		37953832	982.90			
2,4,6-Trinitrotoluene	17.31		41714134	1,001			
4-Amino-2,6-dinitrotoluene	19.09		30210082	1,024			
2-Amino-4,6-dinitrotoluene	19.92		42227832	1,006			
2,6-Dinitrotoluene	21.61		26076740	1,066			
2,4-Dinitrotoluene	22.08		59291557	1,001			
2-Nitrotoluene	25.24		17915501	997.18			
4-Nitrotoluene	26.16		15546871	979.53			
3-Nitrotoluene	27.29		20653636	1,026			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000234.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 07:55:38 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:28 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	29.606	20965426	970.209	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	4.753	12109040	1011.193	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	8.326	19736600	993.774	ug/L
5)	T	1,3,5-TNB	10.426	44550543	997.411	ug/L
6)	T	1,3-DNB	13.759	60693678	1006.825	ug/L
7)	T	3,5-Dinitroaniline	14.873	47862152	1002.502	ug/L
8)	T	Tetryl	15.466	31120974	931.775	ug/L
9)	T	Nitrobenzene	16.093	37953832	982.896	ug/L
10)	T	2,4,6-TNT	17.306	41714134	1001.442	ug/L
11)	T	4-Amino-2,6-DNT	19.086	30210082	1023.589	ug/L
12)	T	2-Amino-4,6-DNT	19.919	42227832	1006.334	ug/L
13)	T	2,6-DNT	21.613	26076740	1065.978	ug/L
14)	T	2,4-DNT	22.079	59291557	1000.945	ug/L
15)	T	2-NT	25.239	17915501	997.184	ug/L
16)	T	4-NT	26.159	15546871	979.527	ug/L
17)	T	3-NT	27.286	20653636	1025.705	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] 3/14/17
(9) (g) 3/29/17

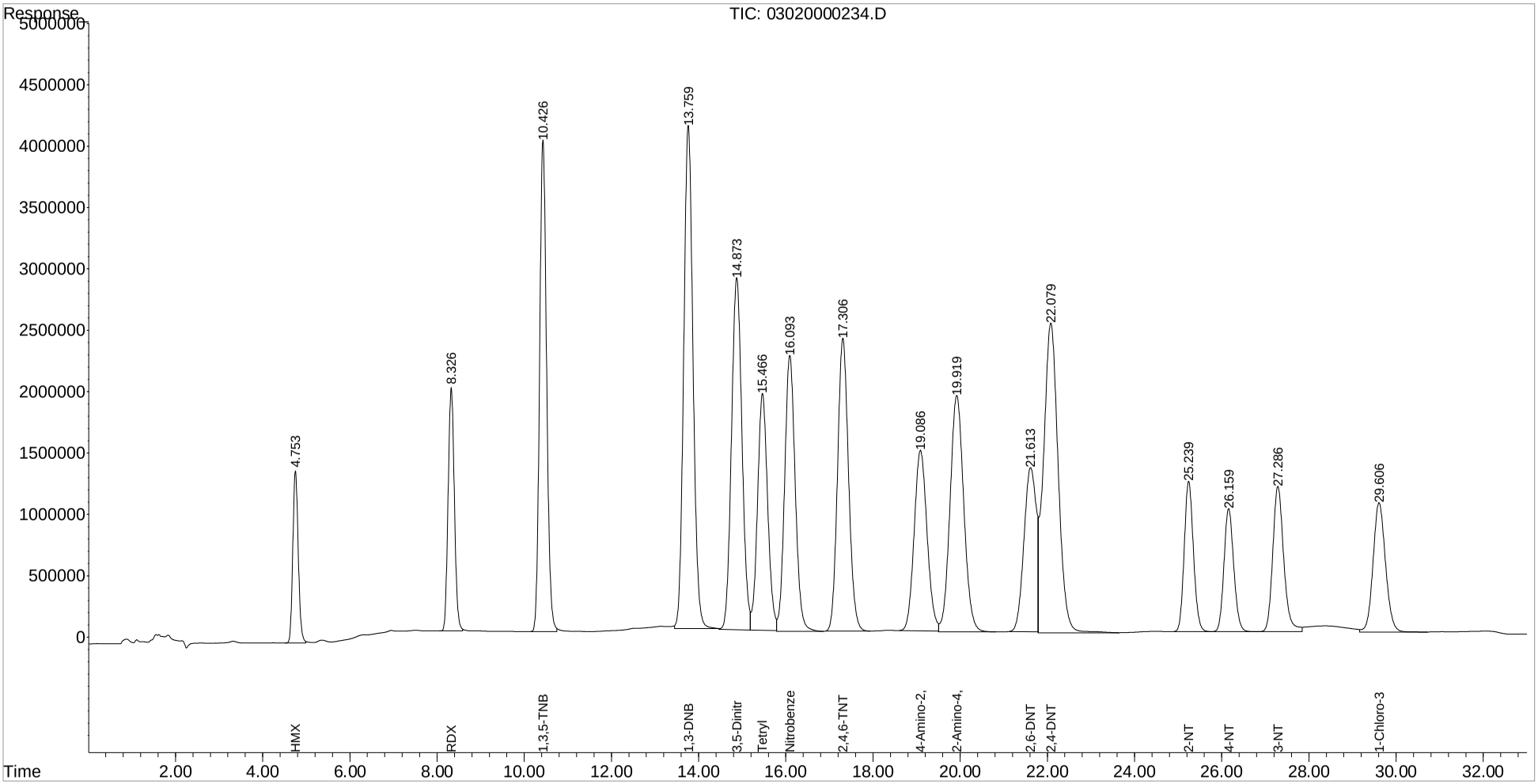
Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000234.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 07:55:38 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:28 2017
Quant Results File: 120716_8330B@254.RES

11/01/2018

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



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012553

Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000204.
Lab ID: KWG1701860-1
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 03/02/2017 13:48
Date Quantitated: 03/06/2017 14:40
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000204.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 13:48	**Quant Date:**	03/06/2017 14:40	**Vial:**	3
Run Type:	CCV	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701860-1			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.54		56340466	990.83		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.47		20870093**m**	1,001			
Pentaerythritol Tetranitrate	27.59		15717711	893.28			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000204.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 13:48:42 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 14:40:21 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.539	56340466	990.831	ug/L	
Target Compounds						
1) T	Nitroglycerin	16.465	20870093	1001.123	ug/L	m
2) T	PETN	27.585	15717711	893.282	ug/L	

(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)

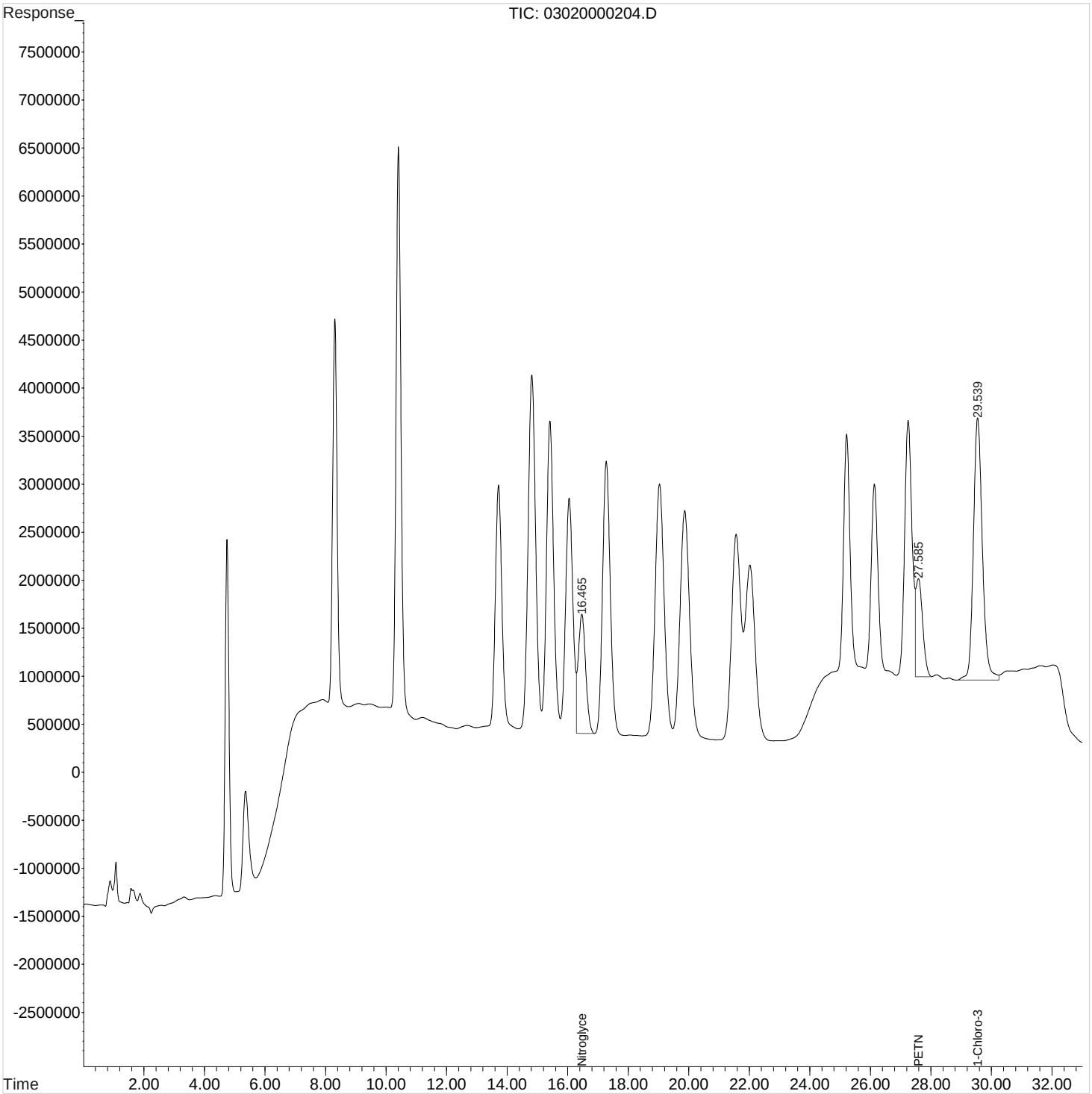
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_210\03020000204.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 13:48:42 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 14:40:21 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(b) (6)

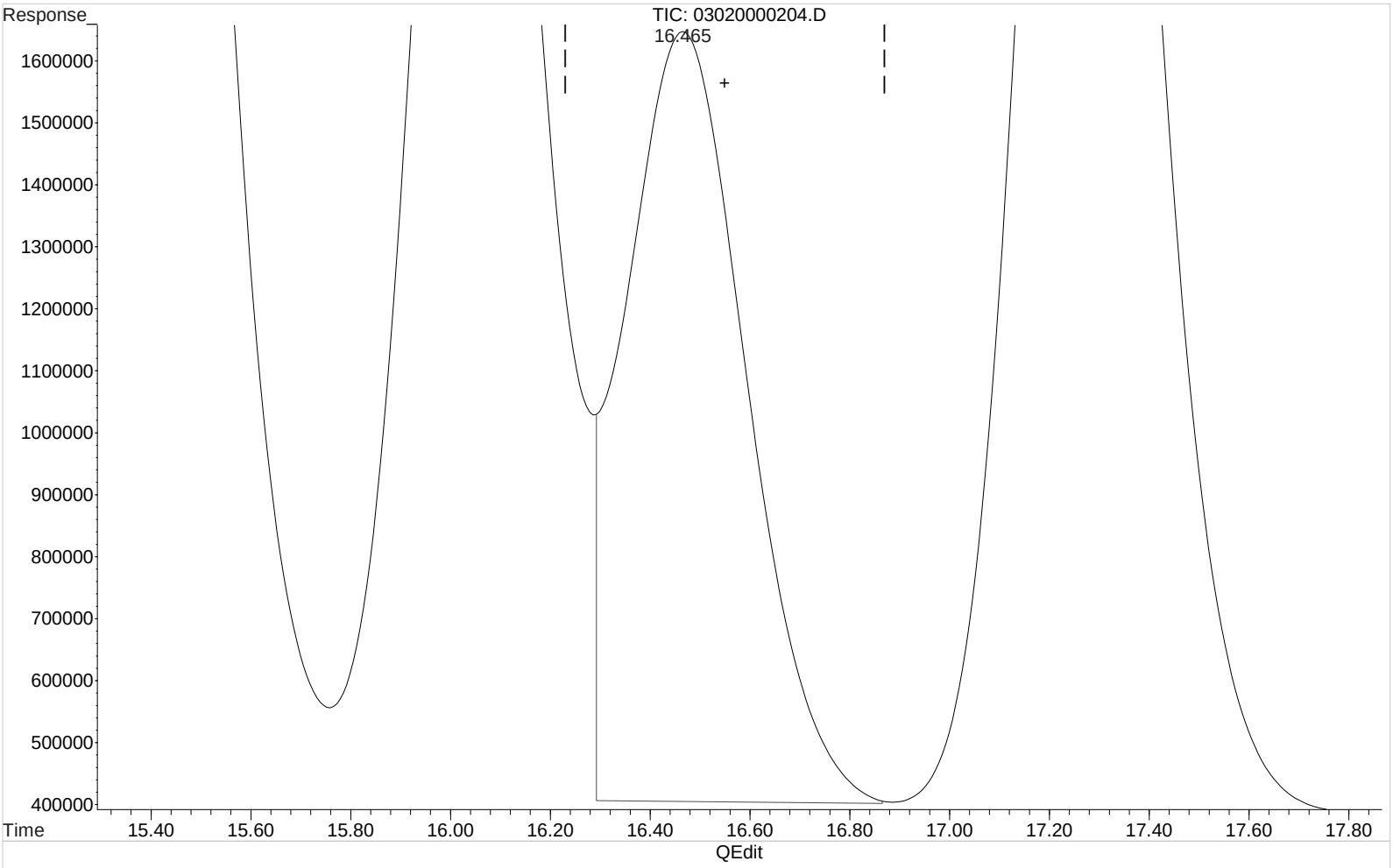
3/29/17

3/29/17

Data File: J:\LC10\Data\030317_8330_210\03020000204.D
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 13:48:42
Operator : BR
Sample : 17-OLC-01-15H 1 PPM
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: RTEINT.P
Quant Time: Mar 06 14:38:54 2017
Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.465min 1001.123 ug/L m

response 20870093

No Before

Manual Integration:

After

Baseline/Shoulder

03/29/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000210.
Lab ID: KWG1701860-3
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 03/02/2017 17:26
Date Quantitated: 03/06/2017 15:22
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000210.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 17:26	**Quant Date:**	03/06/2017 15:22	**Vial:**	3
Run Type:	CCV	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701860-3			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.60		55436856**m**	974.94		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.48		21143518	1,014			
Pentaerythritol Tetranitrate	27.61		16265588**m**	924.42			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000210.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 17:26	**Quant Date:**	03/06/2017 15:22	**Vial:**	3
Run Type:	CCV	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701860-3			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.60		55436856**m**	974.94		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.48		21143518	1,014			
Pentaerythritol Tetranitrate	27.61		16265588**m**	924.42			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000210.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 17:26	**Quant Date:**	03/06/2017 15:22	**Vial:**	3
Run Type:	CCV	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701860-3			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.60		55436856**m**	974.94		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.48		21143518	1,014			
Pentaerythritol Tetranitrate	27.61		16265588**m**	924.42			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000210.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 17:26:04 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:22:00 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.596	55436856	974.939	ug/L	m
Target Compounds						
1) T	Nitroglycerin	16.483	21143518	1014.239	ug/L	
2) T	PETN	27.610	16265588	924.419	ug/L	m

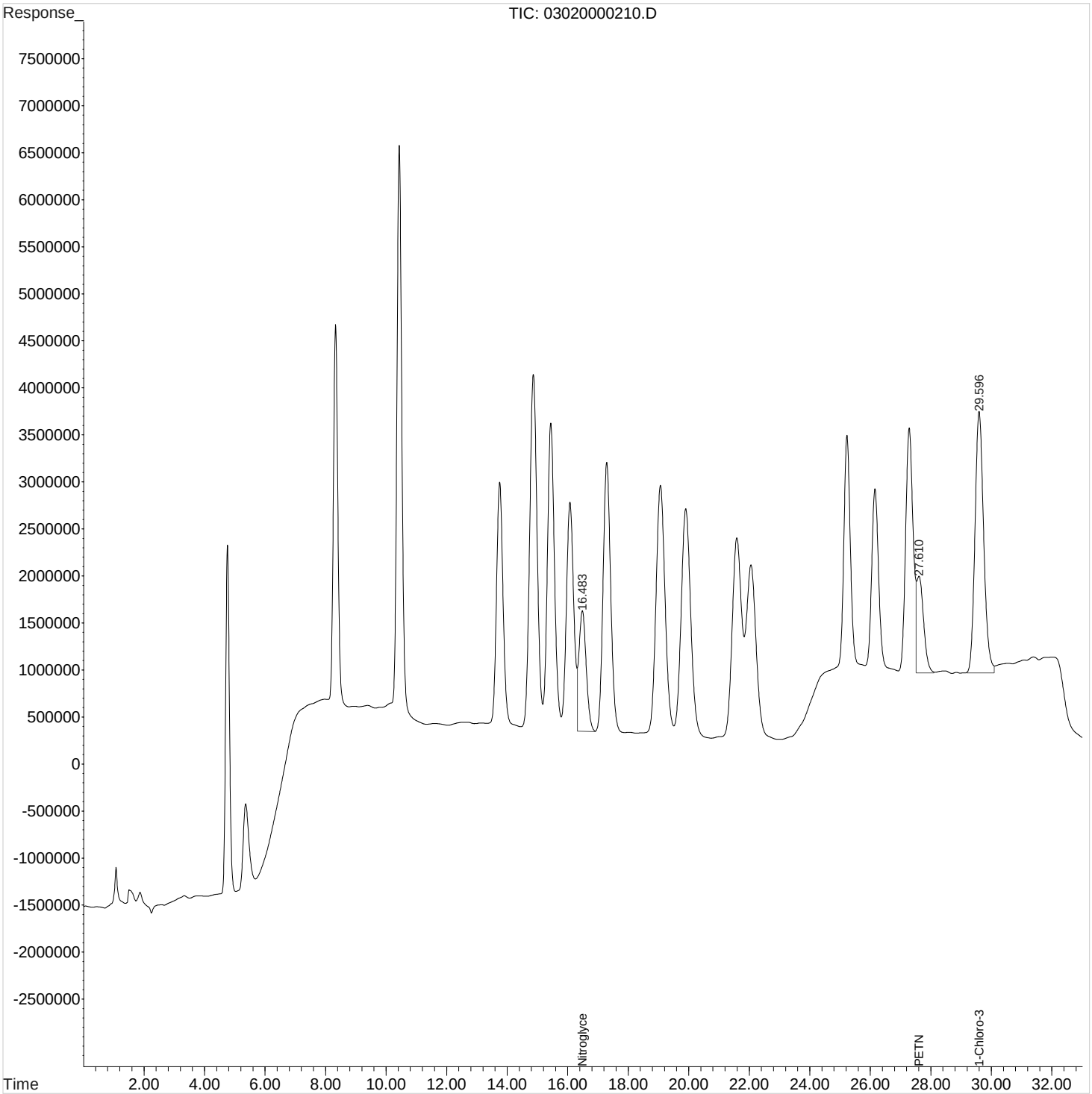
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000210.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 17:26:04 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:22:00 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

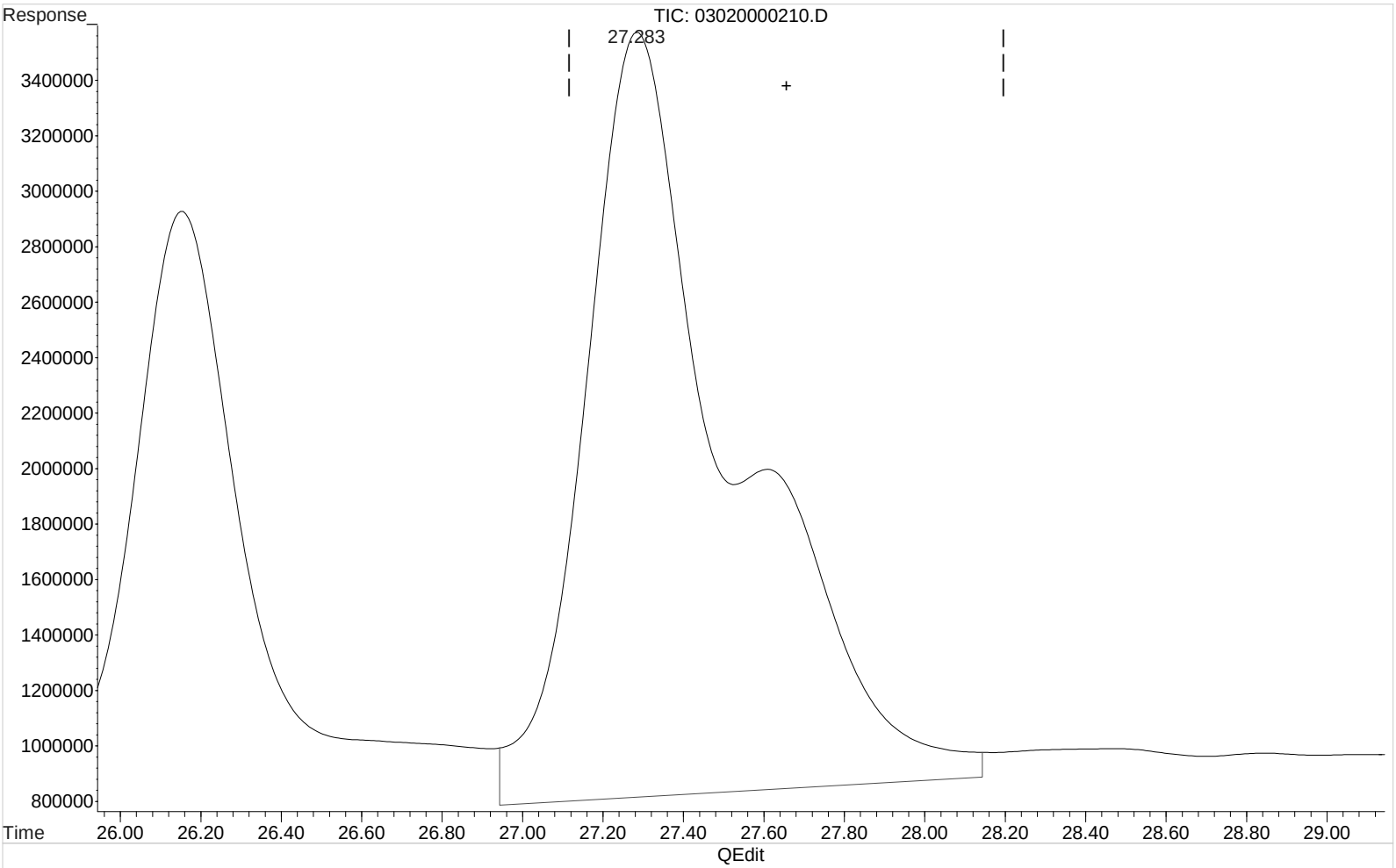


Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000210.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 17:26:04 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 14:59:54 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.283min 4041.052 ug/L

response 71104214

Manual Integration:

Before

03/06/17

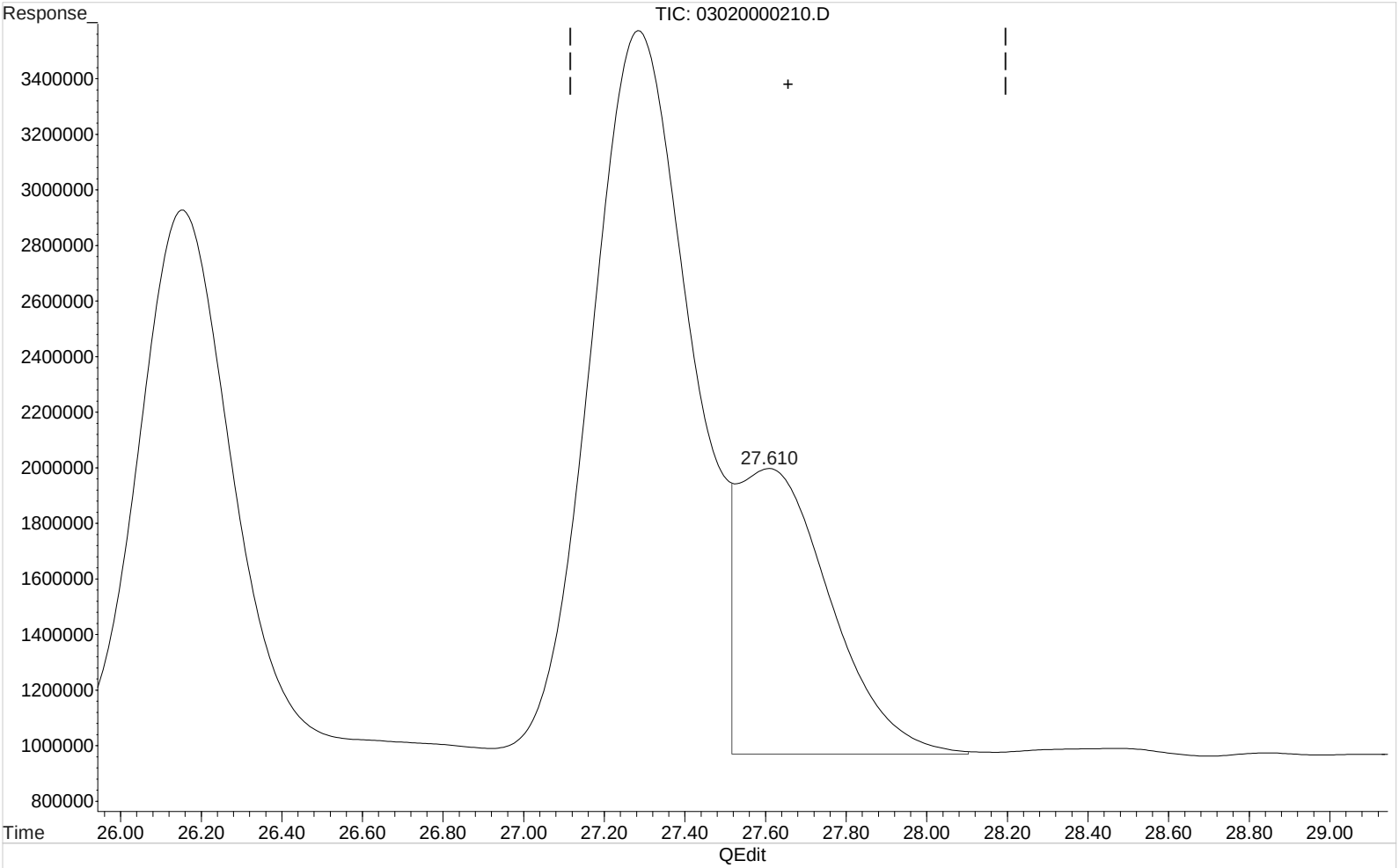
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000210.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 17:26:04 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 14:59:54 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.610min 924.419 ug/L m

response 16265588

Manual Integration:

After

BLC

03/06/17

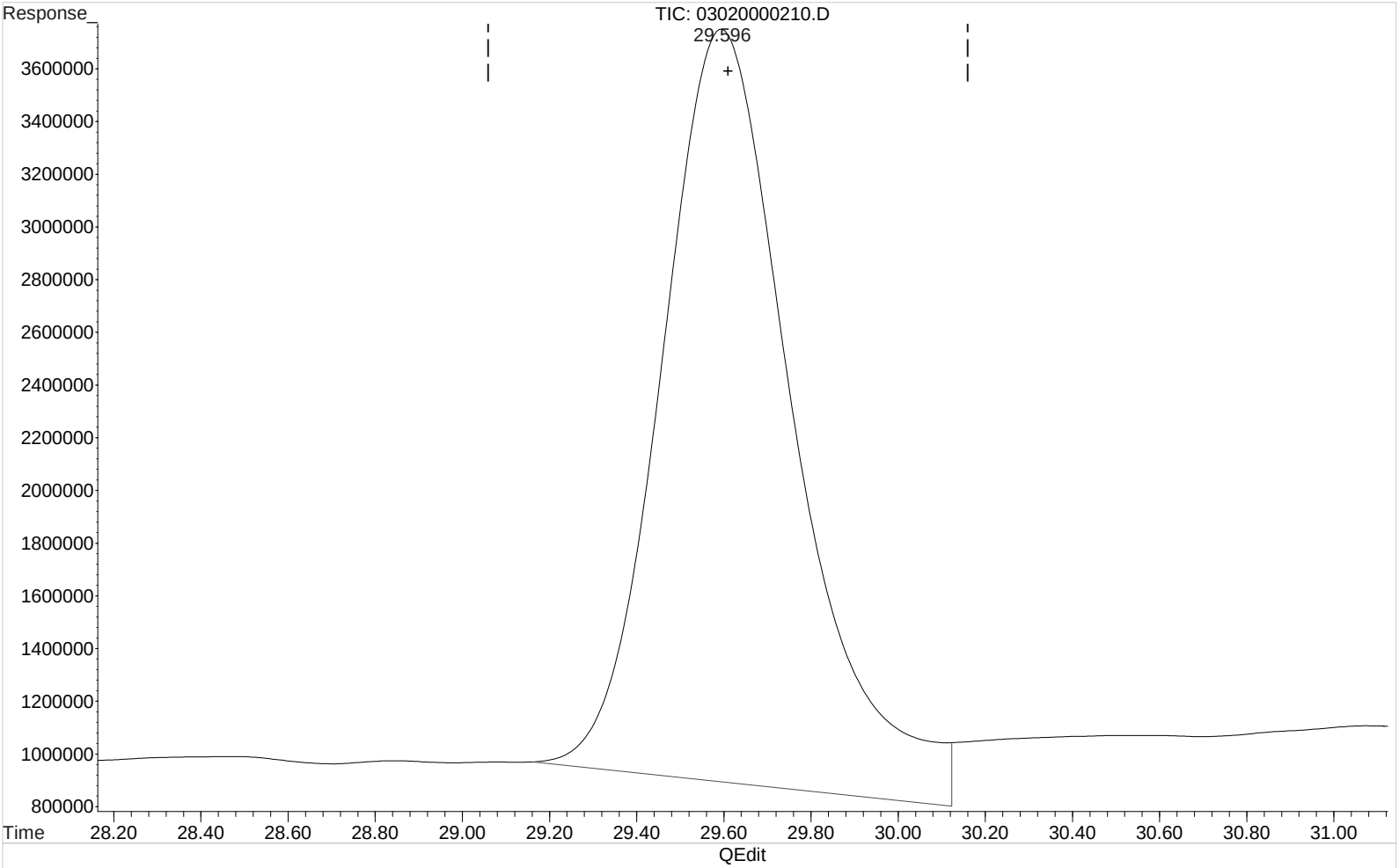
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000210.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 17:26:04 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 14:59:54 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.596min 1060.350 ug/L

response 60293470

Manual Integration:

Before

03/06/17

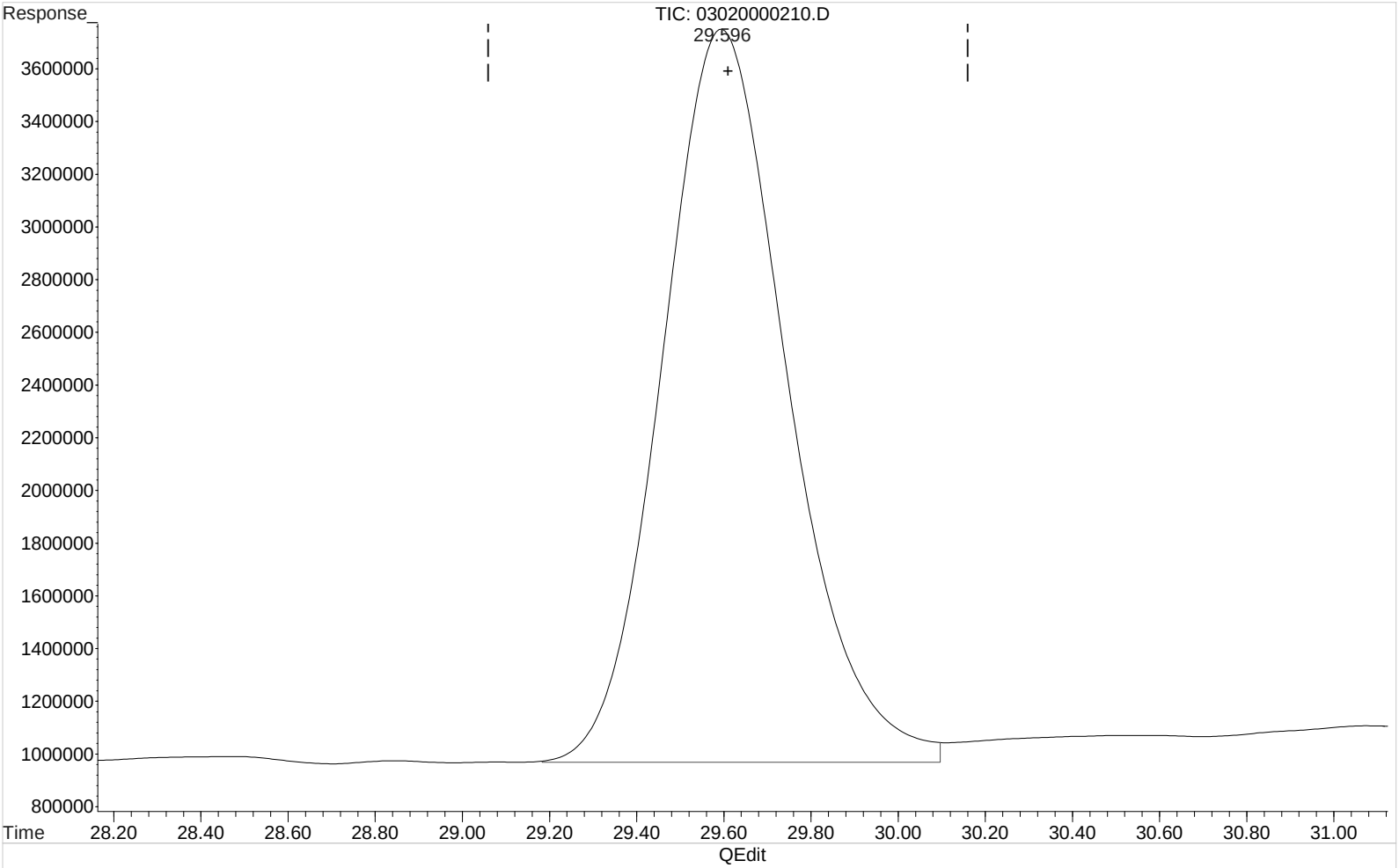
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000210.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 17:26:04 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 14:59:54 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.596min 974.939 ug/L m

response 55436856

Manual Integration:

After

BLC

03/06/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000221.
Lab ID: KWG1701860-5
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 00:04
Date Quantitated: 03/06/2017 15:46
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000221.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 00:04	**Quant Date:**	03/06/2017 15:46	**Vial:**	3
Run Type:	CCV	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701860-5			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.67		55262048	971.87		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.54		20671392	991.59			
Pentaerythritol Tetranitrate	27.71		15835293**m**	899.96			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000221.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 00:04	**Quant Date:**	03/06/2017 15:46	**Vial:**	3
Run Type:	CCV	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701860-5			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.67		55262048	971.87		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.54		20671392	991.59			
Pentaerythritol Tetranitrate	27.71		15835293**m**	899.96			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000221.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 00:04	**Quant Date:**	03/06/2017 15:46	**Vial:**	3
Run Type:	CCV	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701860-5			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.67		55262048	971.87		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.54		20671392	991.59			
Pentaerythritol Tetranitrate	27.71		15835293**m**	899.96			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000221.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 00:04:39 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:46:23 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	29.669	55262048	971.865 ug/L
Target Compounds				
1) T	Nitroglycerin	16.542	20671392	991.591 ug/L
2) T	PETN	27.709	15835293	899.964 ug/L m

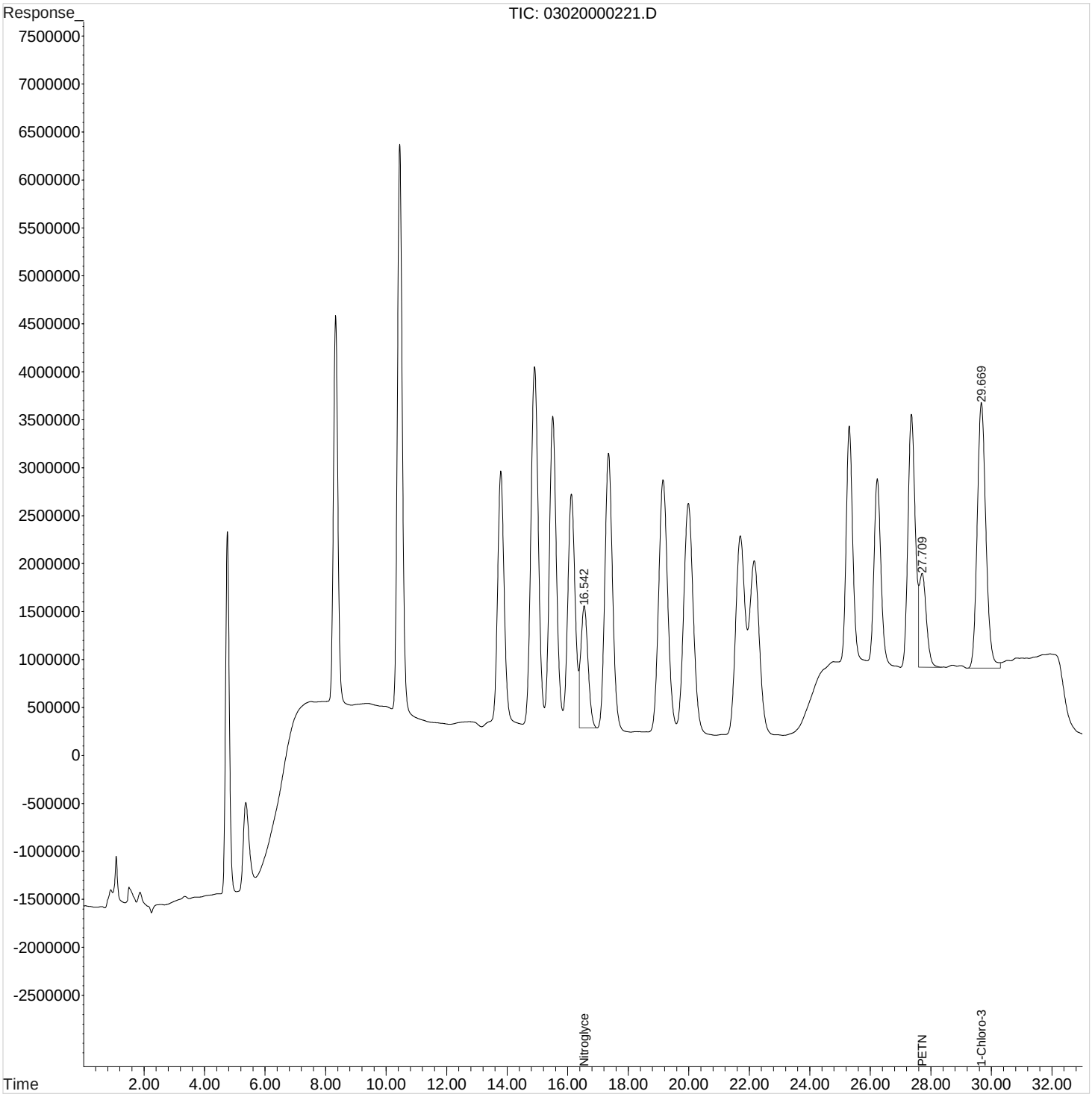
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000221.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 00:04:39 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:46:23 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(b) (6)

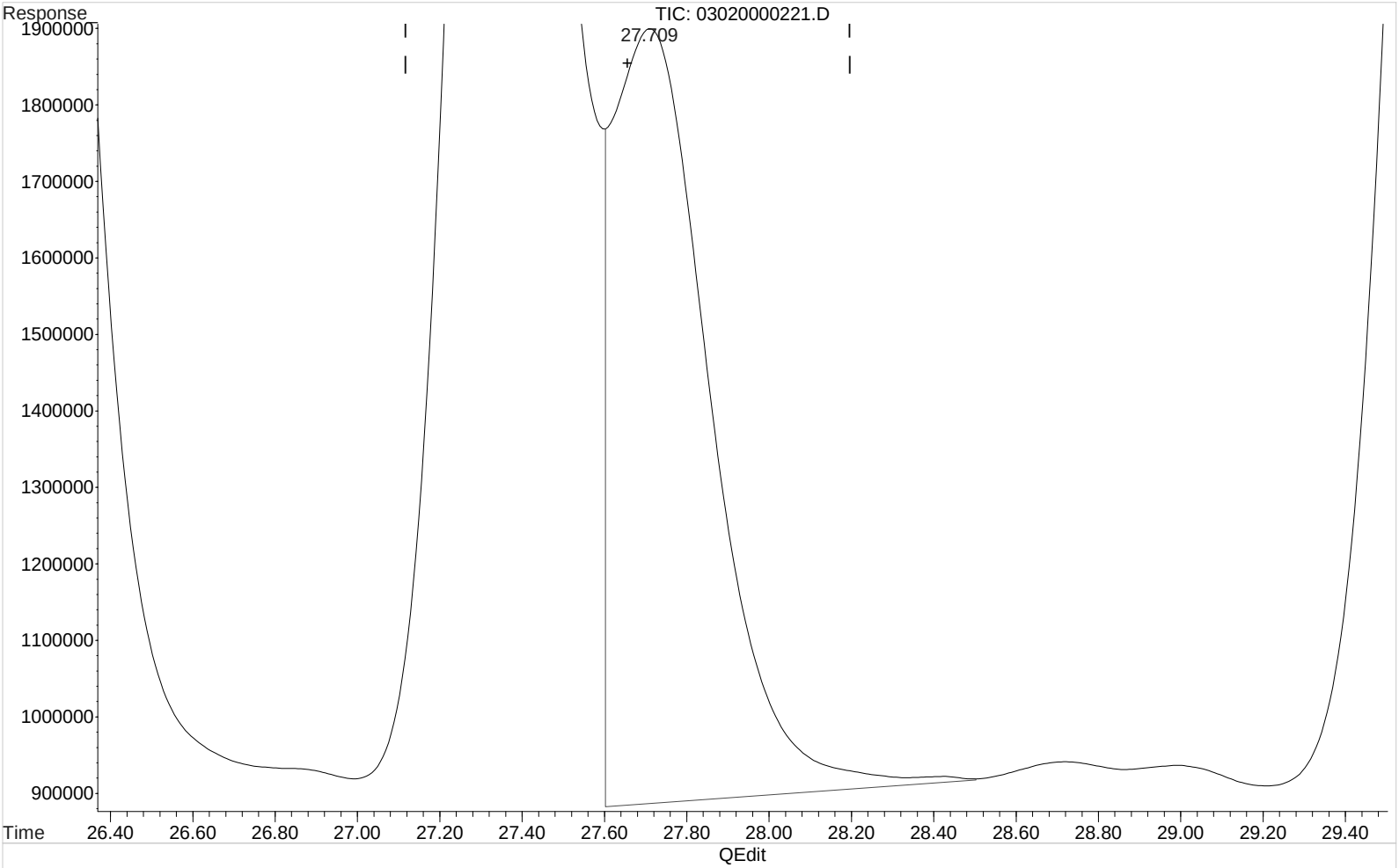
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_210\03020000221.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 00:04:39 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:00:16 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.709min 942.448 ug/L

response 16582813

Manual Integration:

Before

03/06/17

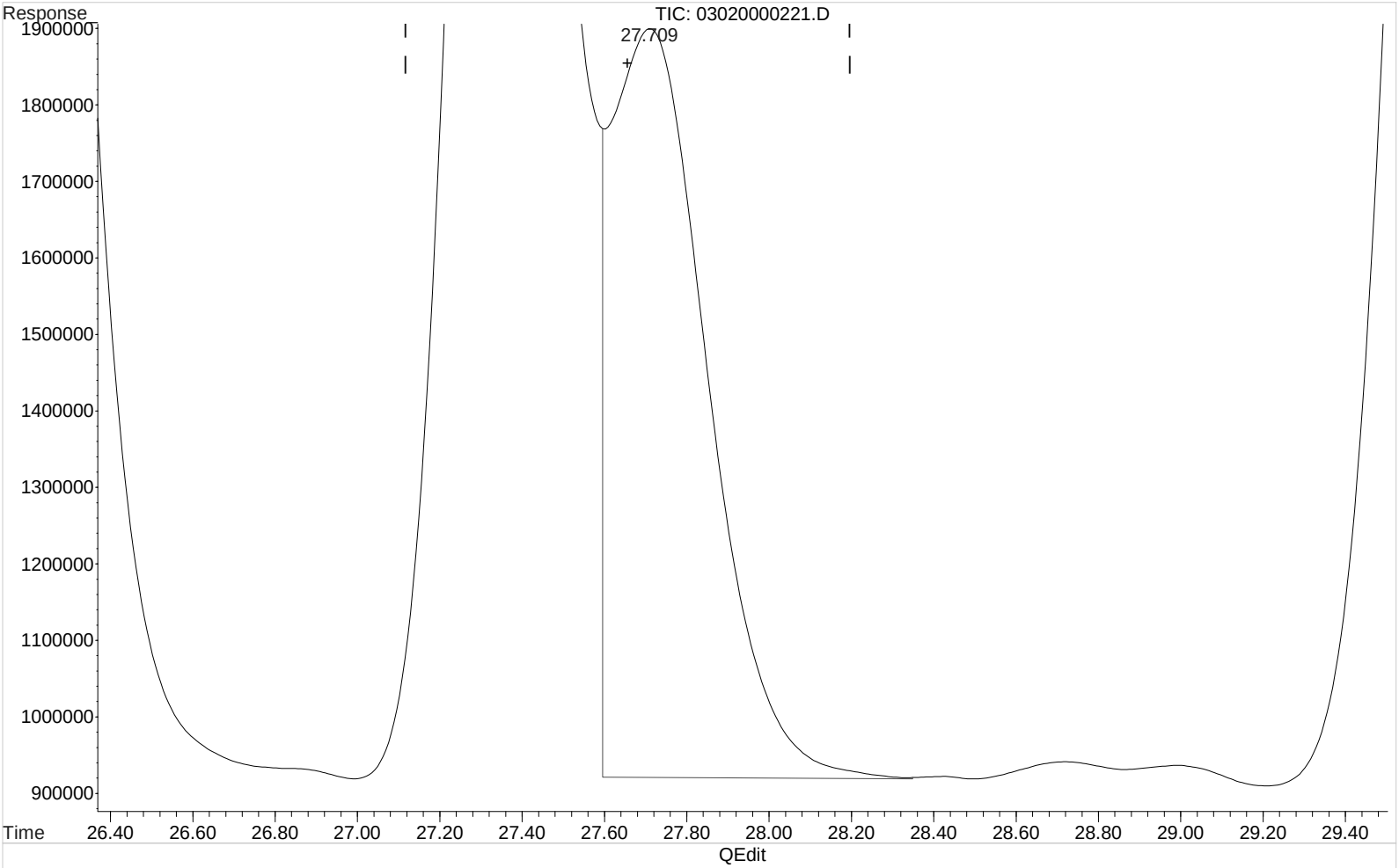
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000221.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 00:04:39 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:00:16 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.709min 899.964 ug/L m

response 15835293

Manual Integration:

After

BLC

03/06/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000227.
Lab ID: KWG1701860-7
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 03:42
Date Quantitated: 03/06/2017 15:54
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000227.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 03:42	**Quant Date:**	03/06/2017 15:54	**Vial:**	4
Run Type:	CCV	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701860-7			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.61		56921175	1,001		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.53		22110883**m**	1,061			
Pentaerythritol Tetranitrate	27.63		15620260	887.74			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000227.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 03:42	**Quant Date:**	03/06/2017 15:54	**Vial:**	4
Run Type:	CCV	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701860-7			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.61		56921175	1,001		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.53		22110883**m**	1,061			
Pentaerythritol Tetranitrate	27.63		15620260	887.74			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000227.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 03:42	**Quant Date:**	03/06/2017 15:54	**Vial:**	4
Run Type:	CCV	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701860-7			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.61		56921175	1,001		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.53		22110883**m**	1,061			
Pentaerythritol Tetranitrate	27.63		15620260	887.74			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000227.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 03:42:07 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:54:41 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.608	56921175	1001.043	ug/L	
Target Compounds						
1) T	Nitroglycerin	16.535	22110883	1060.642	ug/L	m
2) T	PETN	27.628	15620260	887.743	ug/L	

(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)

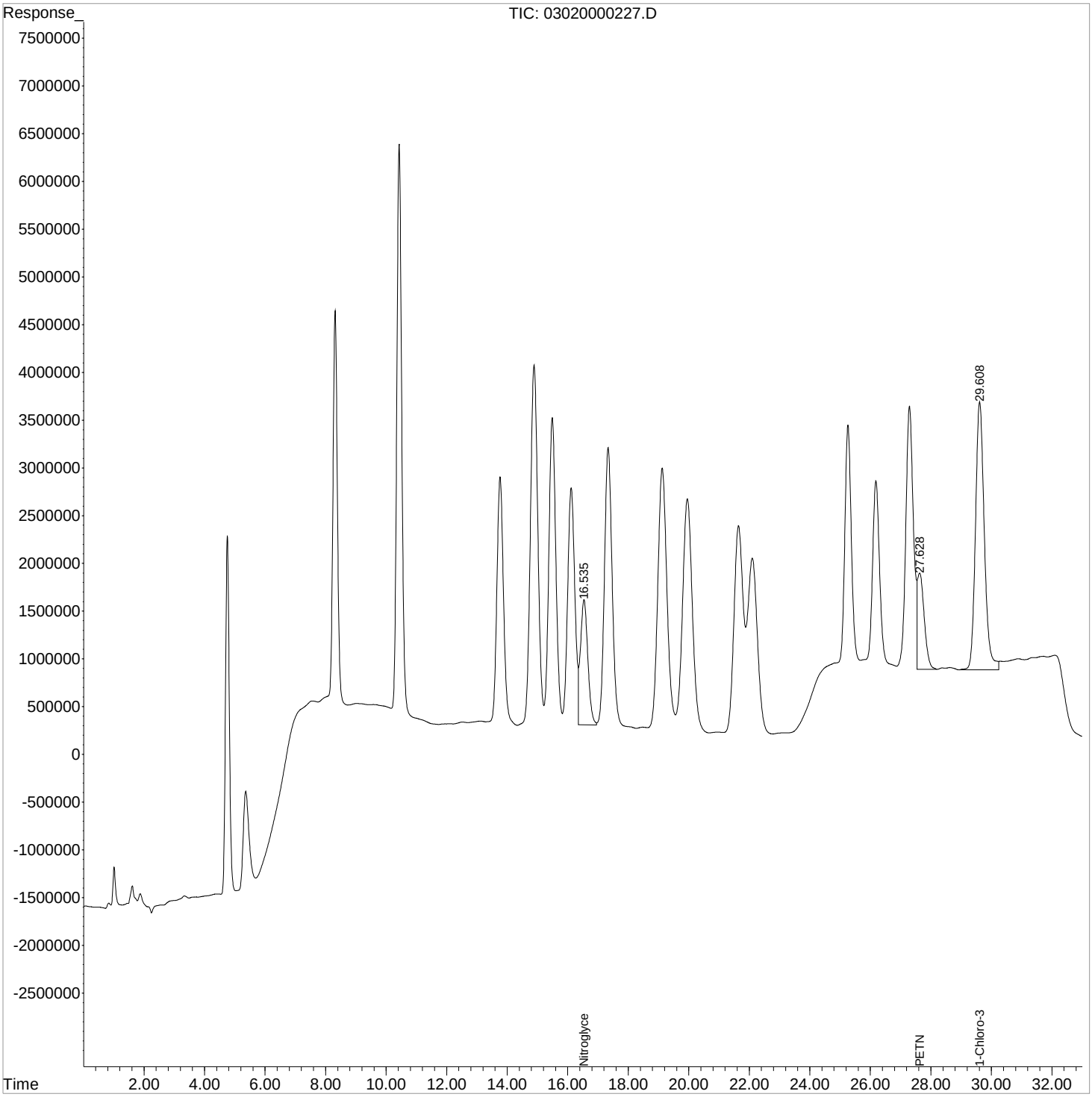
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_210\03020000227.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 03:42:07 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:54:41 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

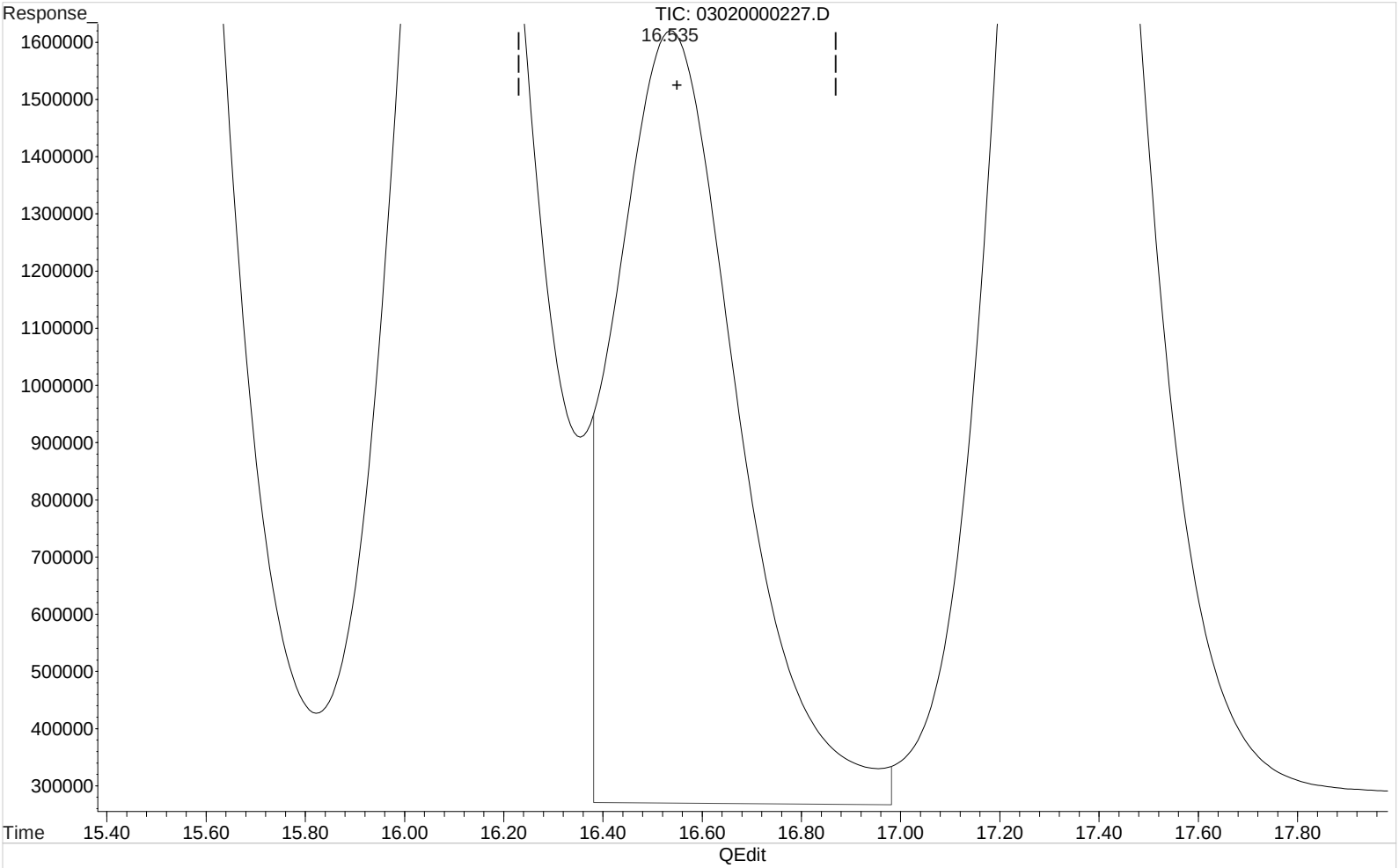


Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000227.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 03:42:07 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:00:28 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.535min 1085.131 ug/L

response 22621385

Manual Integration:

Before

03/06/17

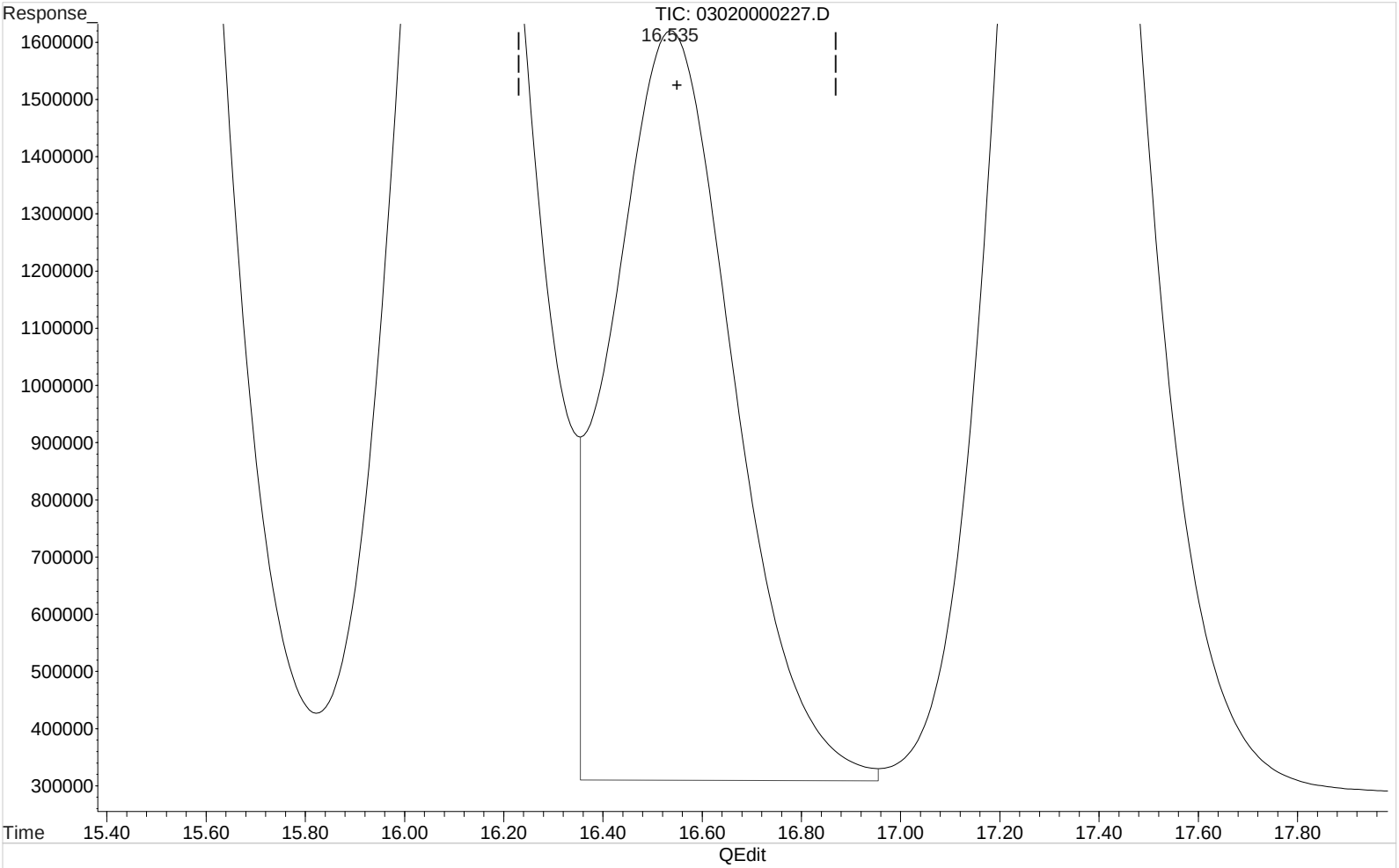
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000227.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 03:42:07 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:00:28 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.535min 1060.642 ug/L m

response 22110883

Manual Integration:

After

BLC

03/06/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000234.
Lab ID: KWG1701860-9
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 07:55
Date Quantitated: 03/06/2017 15:00
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000234.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 07:55	**Quant Date:**	03/06/2017 15:00	**Vial:**	3
Run Type:	CCV	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701860-9			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.61		56954733	1,002		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.51		21798792	1,046			
Pentaerythritol Tetranitrate	27.63		14995585	852.24			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000234.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 07:55	**Quant Date:**	03/06/2017 15:00	**Vial:**	3
Run Type:	CCV	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701860-9			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.61		56954733	1,002		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.51		21798792	1,046			
Pentaerythritol Tetranitrate	27.63		14995585	852.24			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000234.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 07:55	**Quant Date:**	03/06/2017 15:00	**Vial:**	3
Run Type:	CCV	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701860-9			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.61		56954733	1,002		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.51		21798792	1,046			
Pentaerythritol Tetranitrate	27.63		14995585	852.24			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000234.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 07:55:38 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:00:42 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	29.606	56954733	1001.634 ug/L
Target Compounds				
1) T	Nitroglycerin	16.506	21798792	1045.672 ug/L
2) T	PETN	27.633	14995585	852.241 ug/L

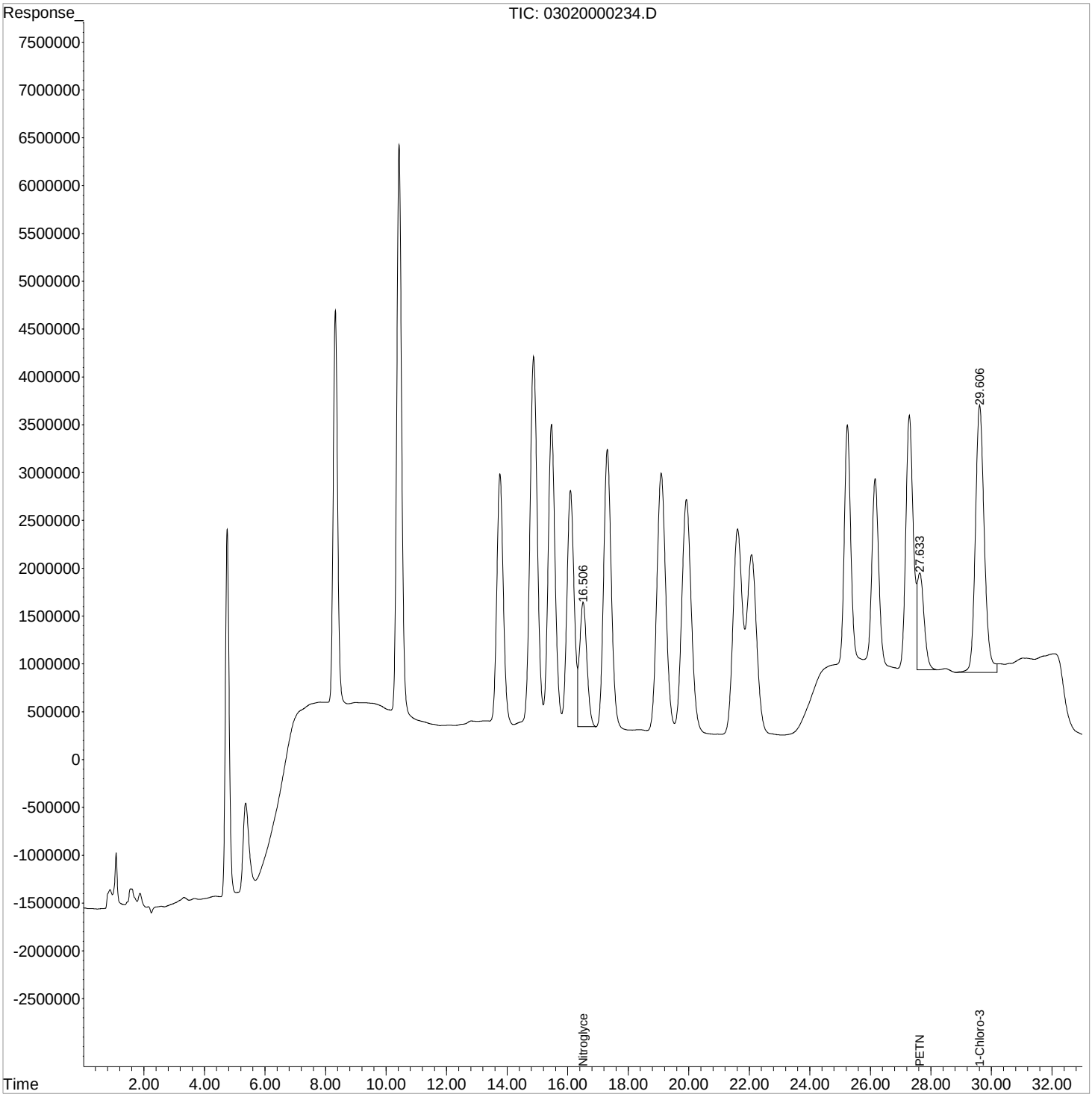
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000234.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 07:55:38 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:00:42 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Exception Report

Data File: J:\LC08\DATA\030317_8330_254\03030000121.
Lab ID: KWG1701981-1
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 03/04/2017 03:46
Date Quantitated: 03/29/2017 16:32
Batch ID: KWG1701981
Analysis Method: 8330B
MethodJoinID: MJ1277

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC08\DATA\030317_8330_254\03030000121.D			**Instrument:**	LC08
Acqu Date:	03/04/2017 03:46	**Quant Date:**	03/10/2017 15:34	**Vial:**	3
Run Type:	CCV	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701981-1			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/10/2017

Analysis Lot:	KWG1701981	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC08\METHOD\020917_SHORT	**Calibration ID:**	CAL15192
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	8.15c		20419172	775.92		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX	2.59		15108545**m**	969.34			
RDX	2.85		16939860**m**	910.71			
Nitrobenzene	4.61		34265260**m**	921.02			
3,5-Dinitroaniline	5.41		44290427	952.81			
4-Amino-2,6-dinitrotoluene	5.04		30331741	952.23			
2-Nitrotoluene	6.08		22050868	936.14			
2-Amino-4,6-dinitrotoluene	6.60		39893093**m**	945.59			
3-Nitrotoluene	7.25		26008749	930.77			
1,3-Dinitrobenzene	9.26		20753566**m**	370.94			
4-Nitrotoluene	8.15c		20419172	875.96			
2,6-Dinitrotoluene	8.47		26524390	1,084			
2,4-Dinitrotoluene			0				
TETRYL			0				
1,3,5-Trinitrobenzene			0				
2,4,6-Trinitrotoluene	20.63		39544075	1,019			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\030317_8330_254\03030000121.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 03:46:07 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 29 16:32:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
11) S	1-Chloro-3-Nitrobenzene	8.473f	24574028	933.803	ug/L	m
	Target Compounds					
1) T	HMX	2.587	15108545	969.335	ug/L	m
2) T	RDX	2.853	16939860	910.705	ug/L	m
3) T	Nitrobenzene	4.613	34265260	921.023	ug/L	m
4) T	3,5-Dinitroaniline	5.407	44290427	952.805	ug/L	
5) T	4-Amino-2,6-DNT	5.040	30331741	952.229	ug/L	
6) T	2-NT	6.080	22050868	936.138	ug/L	
7) T	2-Amino-4,6-DNT	6.600	39893093	945.593	ug/L	m
8) T	3-NT	7.253	26008749	930.771	ug/L	
9) T	1,3-DNB	9.447f	56157638	1003.740	ug/L	m
10) T	4-NT	8.153	21060281	903.458	ug/L	m
12) T	2,6-DNT	9.267f	21400012	874.536	ug/L	m
13) T	2,4-DNT	15.453f	48668899	925.200	ug/L	m
14) T	Tetryl	13.653f	27396461	933.106	ug/L	m
15) T	1,3,5-TNB	20.627f	39523359	938.033	ug/L	m
16) T	2,4,6-TNT	21.793f	36656192	944.689	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)

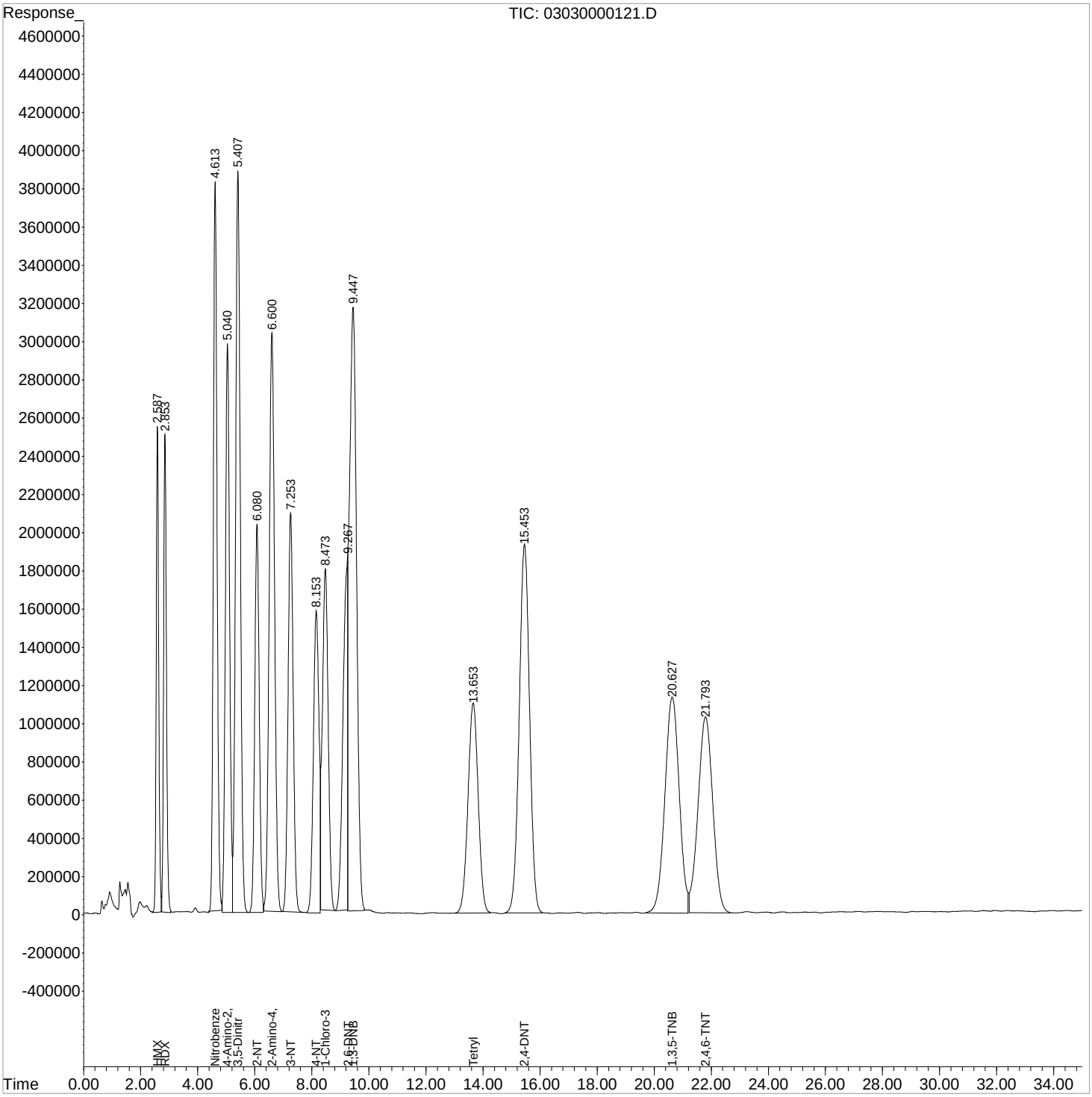
03/14/17

03/16/17

Data File : J:\LC08\Data\030317_8330_254\03030000121.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 03:46:07 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 29 16:32:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

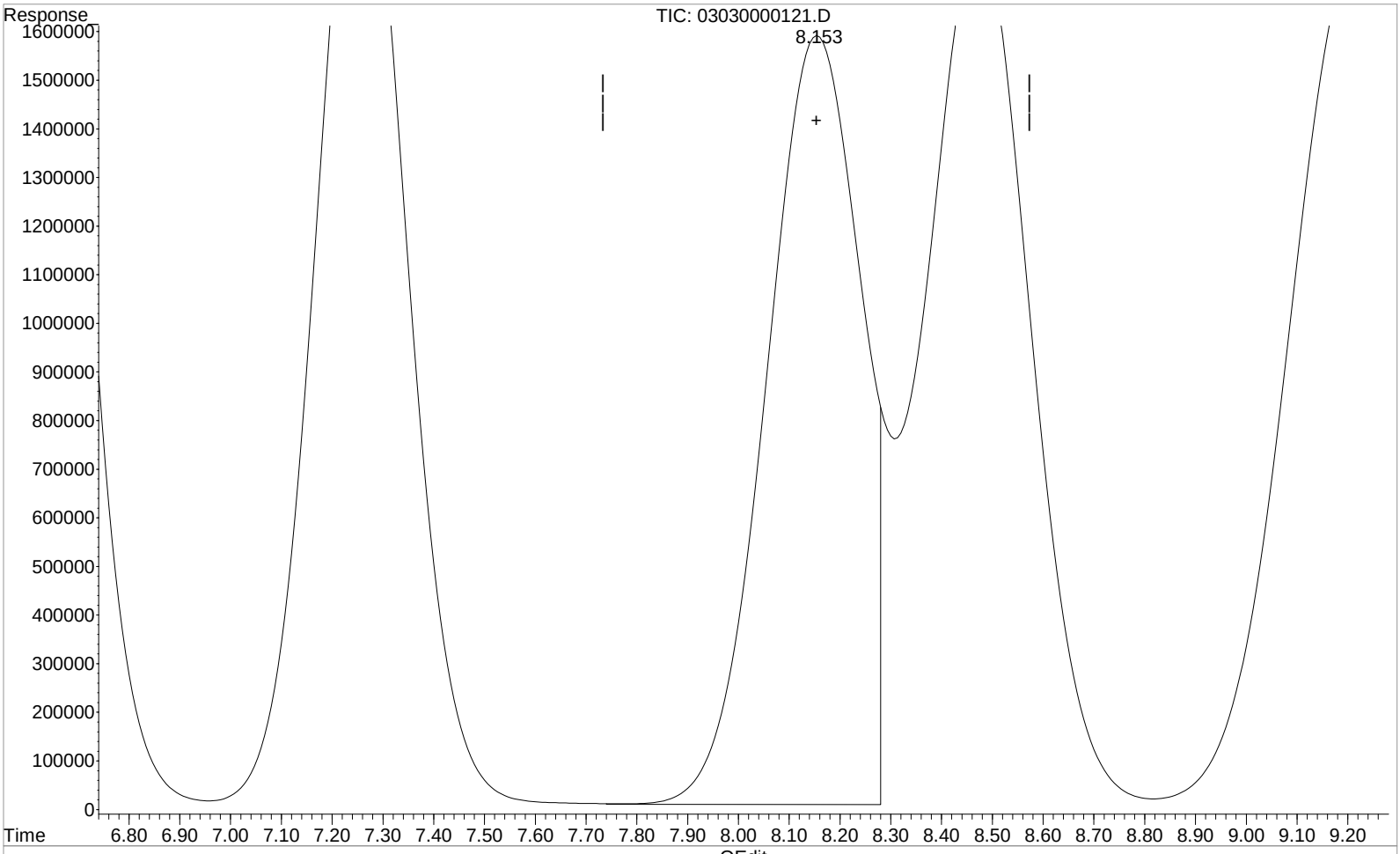


Quantitation Report (Qedit)

Data File : J:\LC08\Data\030317_8330_254\03030000121.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 03:46:07 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 16:34:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

8.153min 875.955 ug/L

response 20419172

Manual Integration:

Before

03/29/17

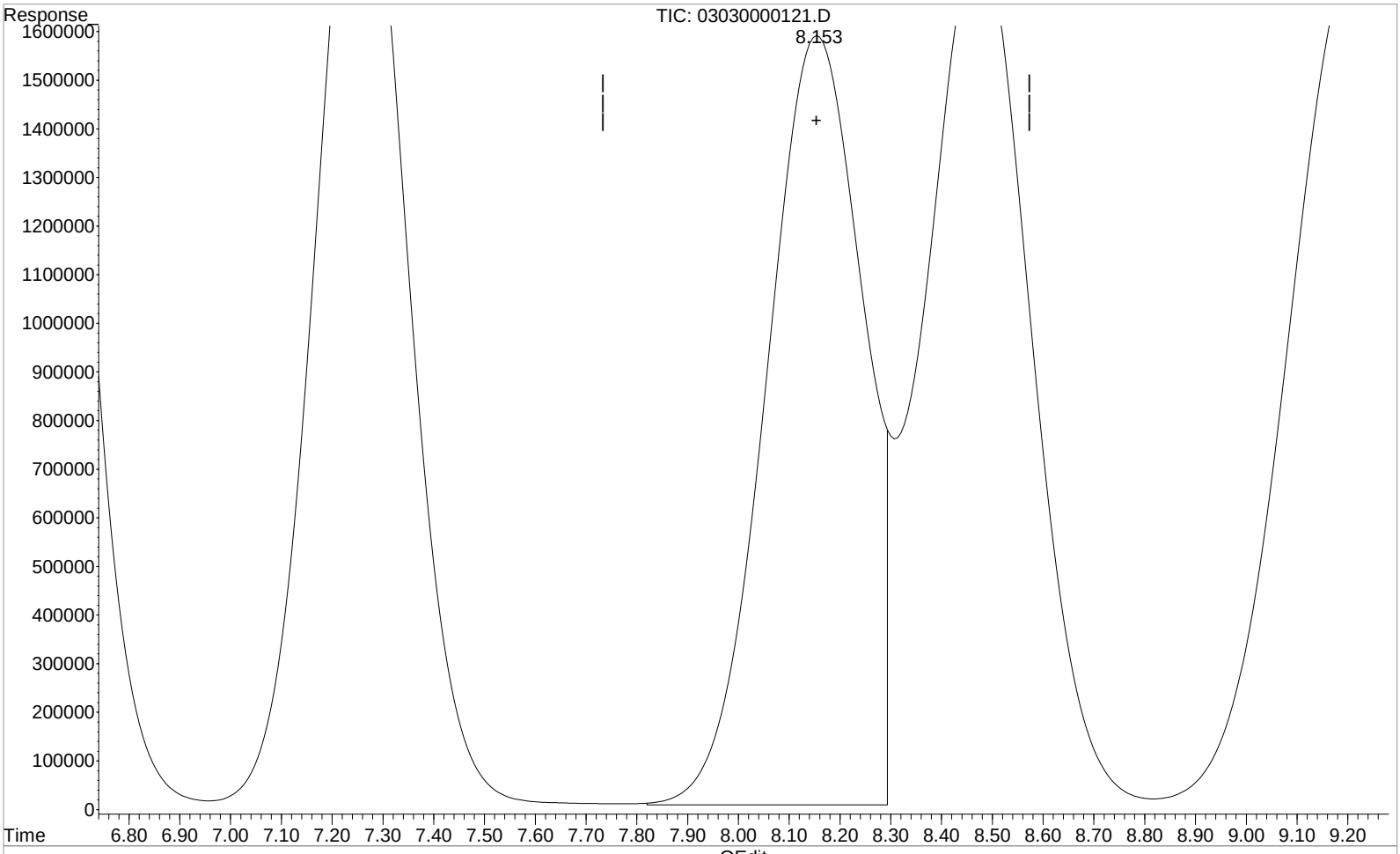
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\030317_8330_254\03030000121.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 03:46:07 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 16:34:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(10) 4-NT (T)

8.153min 903.458 ug/L m

response 21060281

Manual Integration:

After

BLC

03/29/17

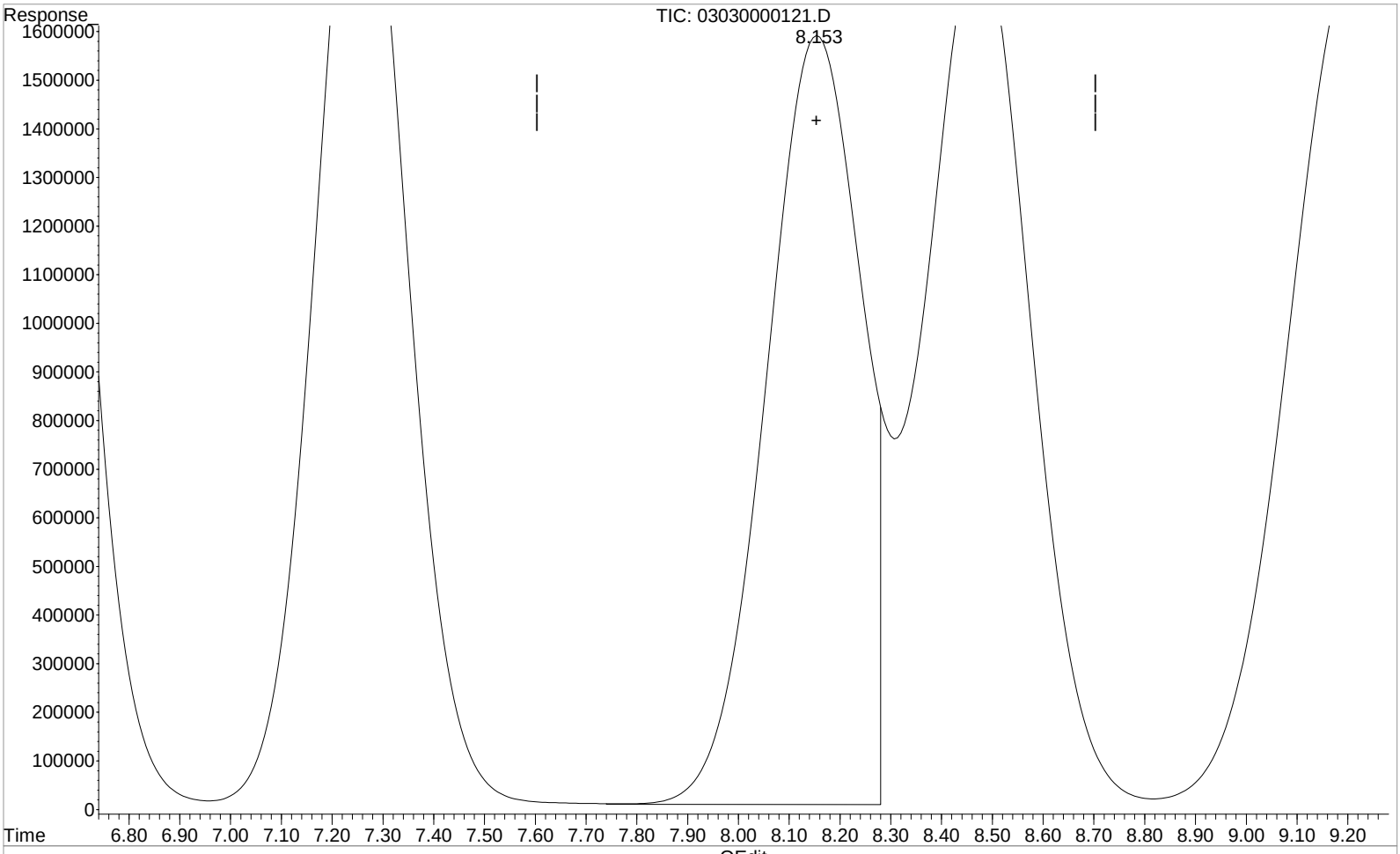
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\030317_8330_254\03030000121.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 03:46:07 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 16:34:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(11) 1-Chloro-3-Nitrobenzene (S)

8.153min 775.920 ug/L

response 20419172

Manual Integration:

Before

03/29/17

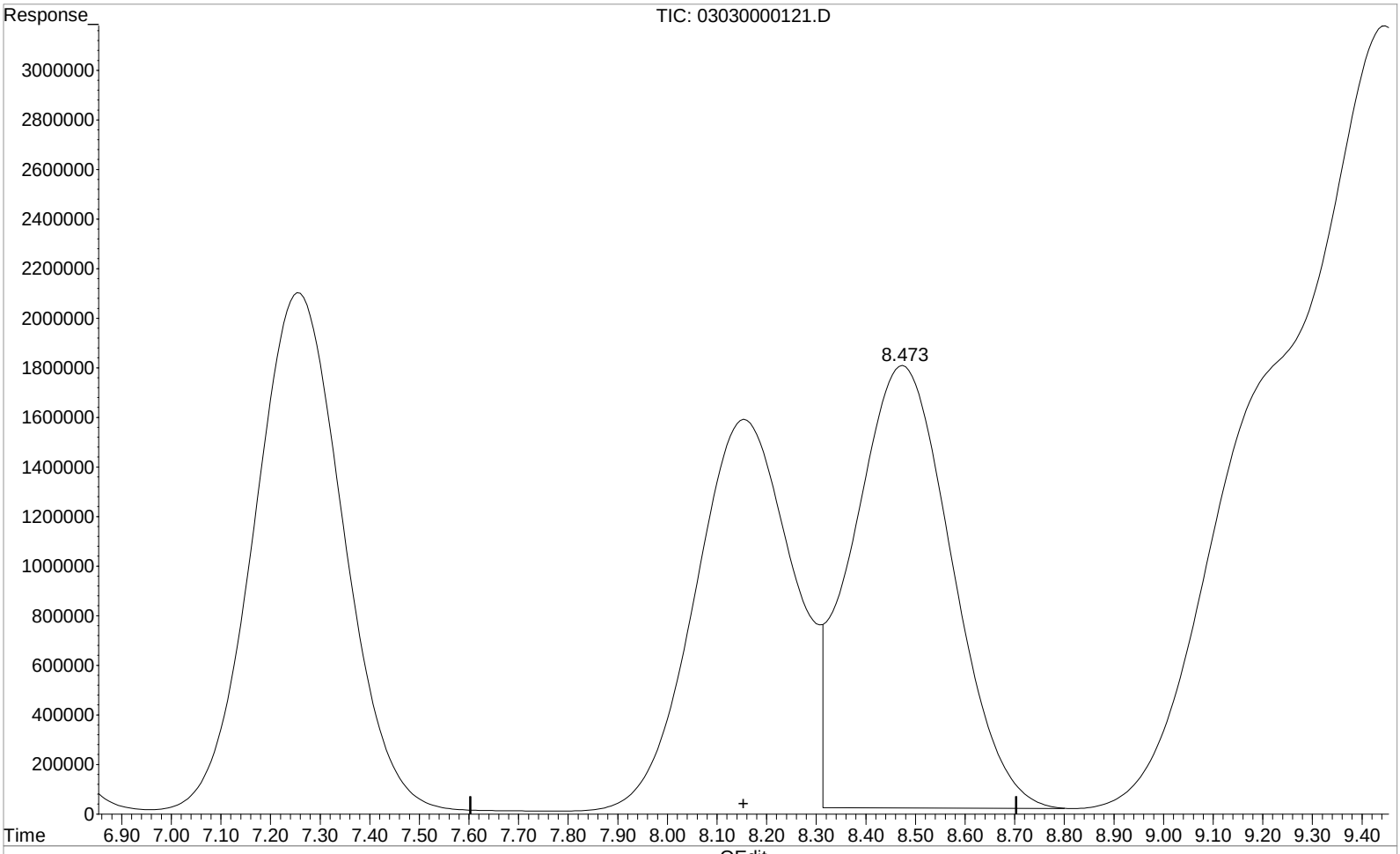
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\030317_8330_254\03030000121.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 03:46:07 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 16:34:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(11) 1-Chloro-3-Nitrobenzene (S)

8.473min 933.803 ug/L m

response 24574028

Manual Integration:

After

BLC

03/29/17

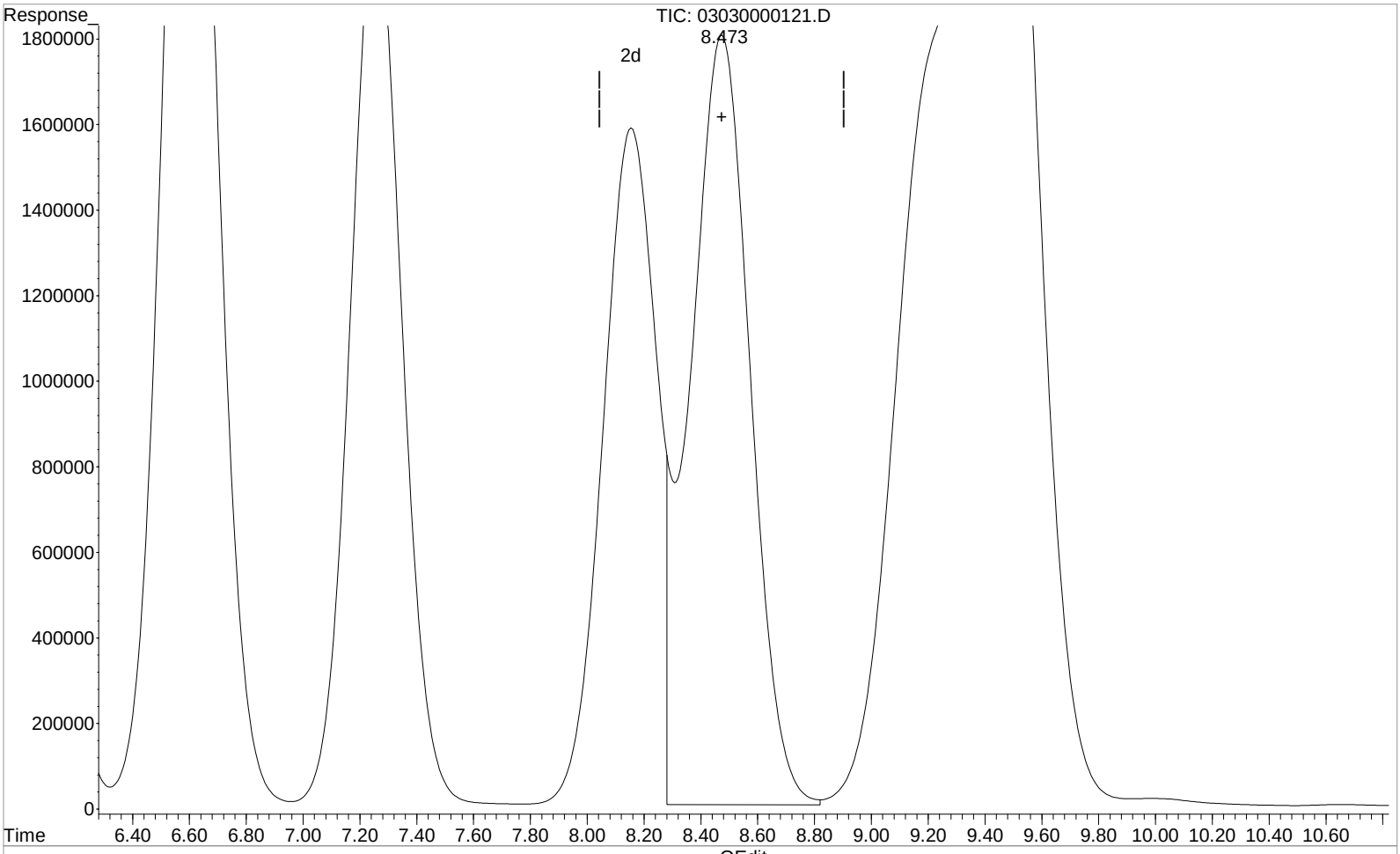
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\030317_8330_254\03030000121.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 03:46:07 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 16:34:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(12) 2,6-DNT (T)

8.473min 1083.950 ug/L

response 26524390

Manual Integration:

Before

03/29/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)
(6)

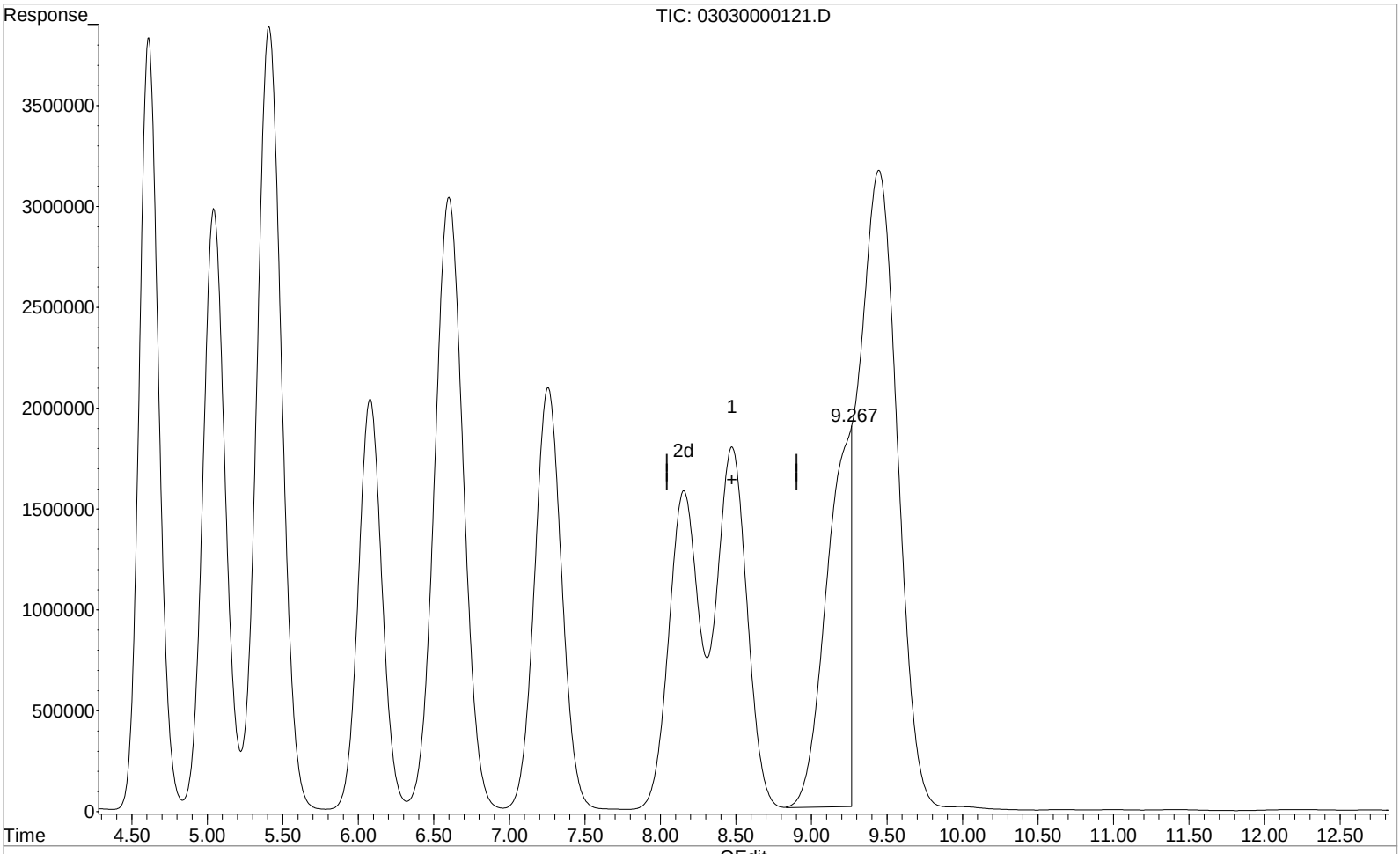
1st 03/29/17

2nd 03/29/17

Data File : J:\LC08\Data\030317_8330_254\03030000121.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 03:46:07 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 16:34:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(12) 2,6-DNT (T)

9.267min 874.536 ug/L m

response 21400012

Manual Integration:

After

BLC

03/29/17

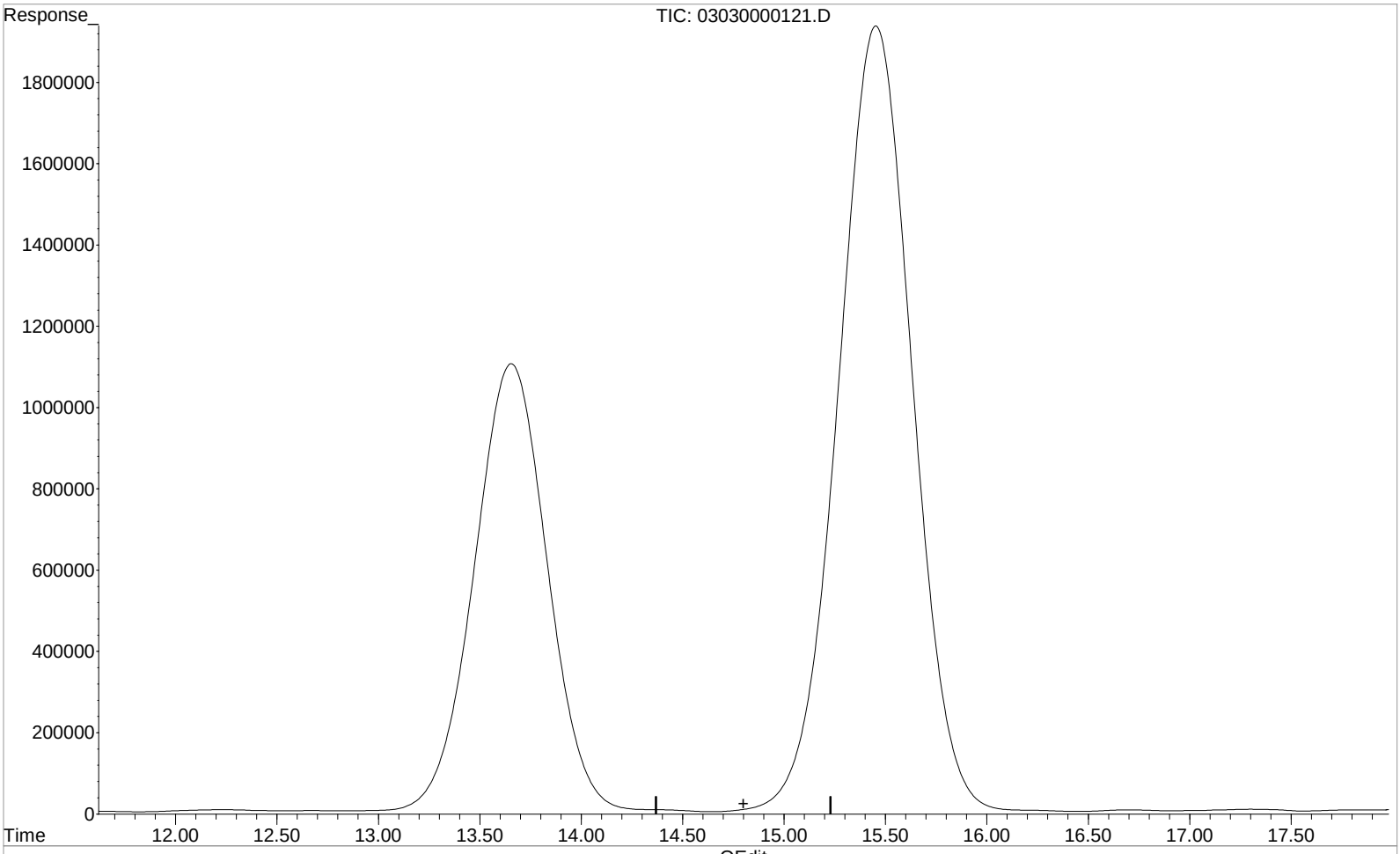
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\030317_8330_254\03030000121.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 03:46:07 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 16:34:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(13) 2,4-DNT (T)

14.800min 0.000 ug/L

response 0

Manual Integration:

Before

03/29/17

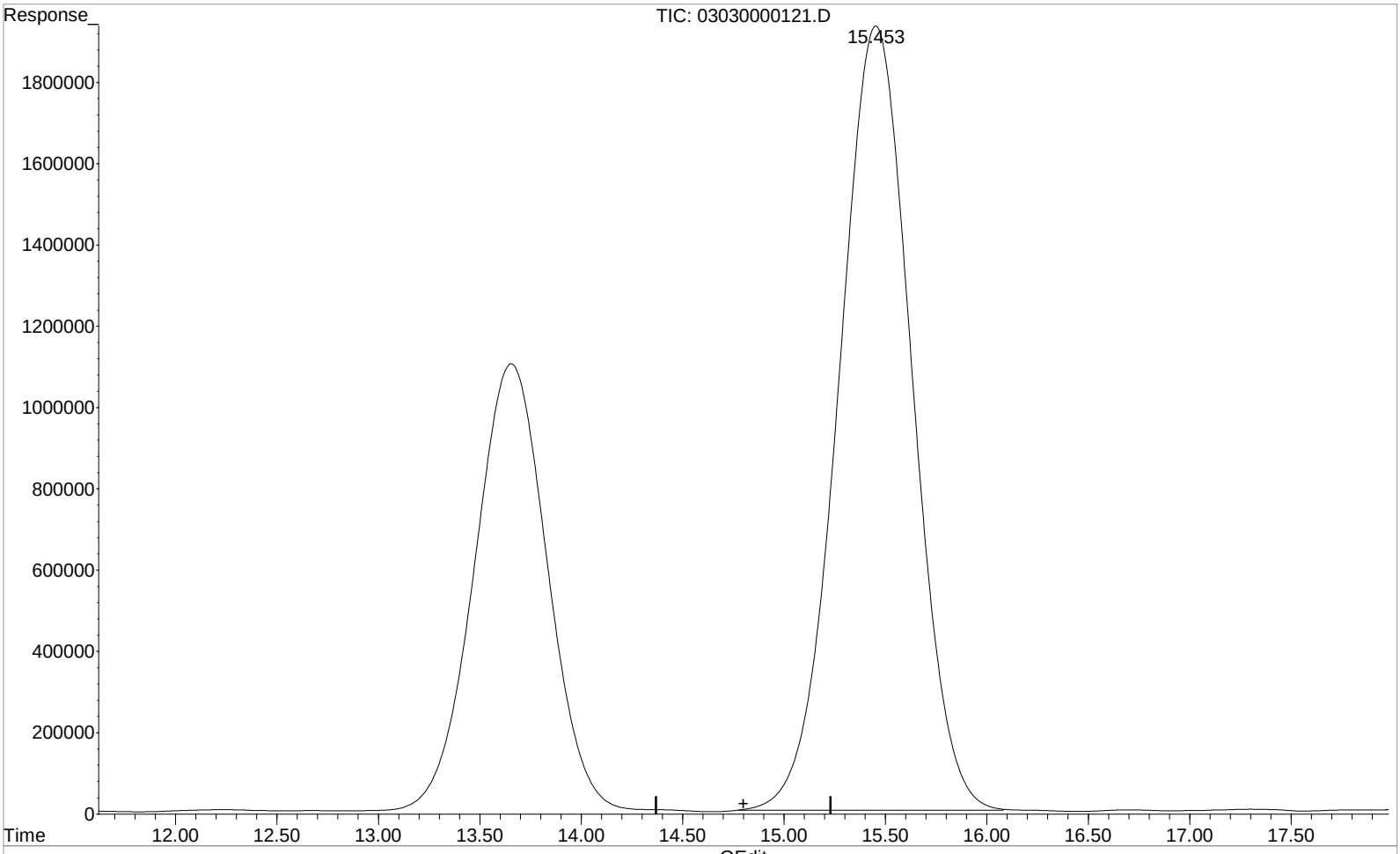
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\030317_8330_254\03030000121.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 03:46:07 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 16:34:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(13) 2,4-DNT (T)

15.453min 925.200 ug/L m

response 48668899

Manual Integration:

After

BLC

03/29/17

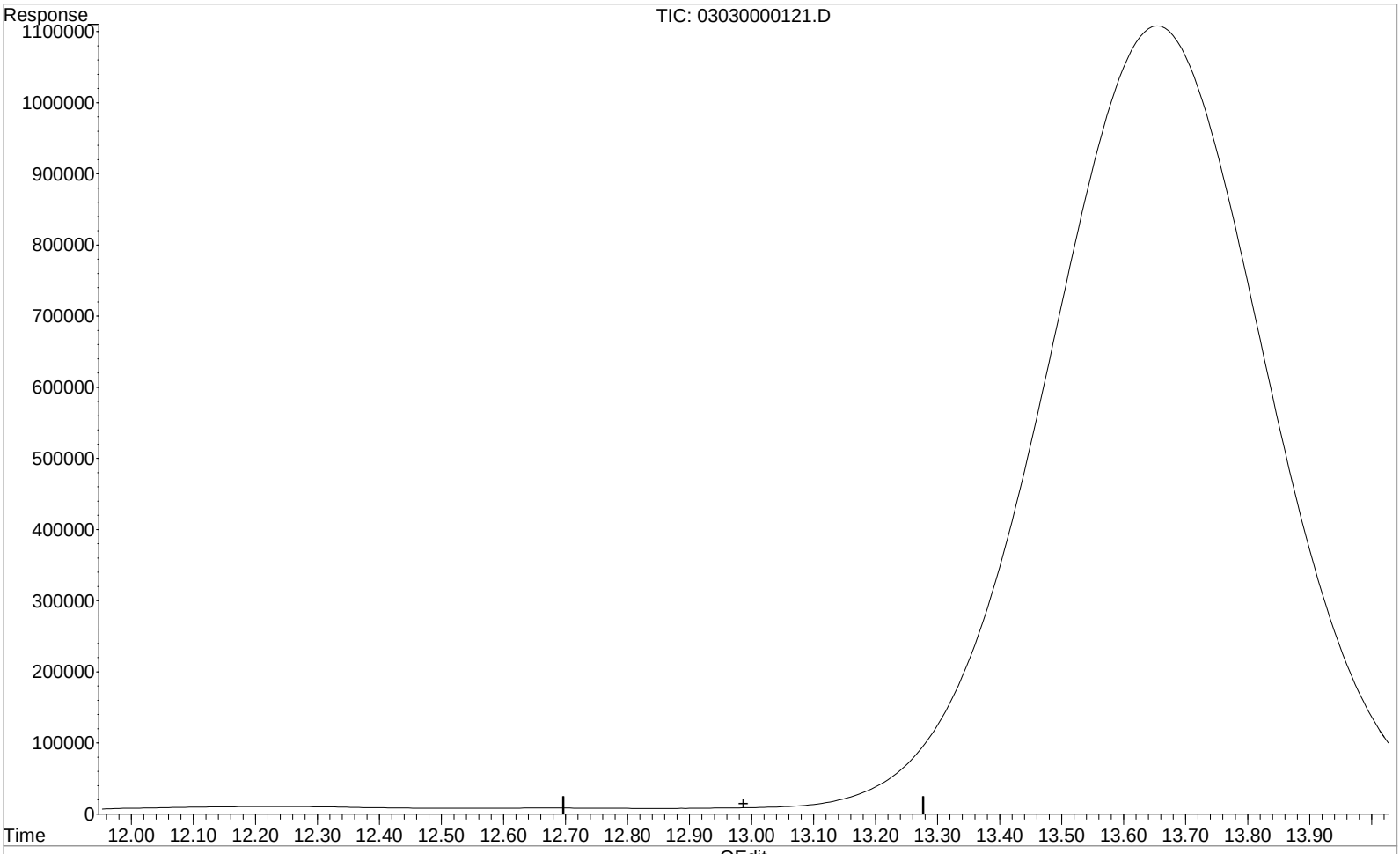
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\030317_8330_254\03030000121.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 03:46:07 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 16:34:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(14) Tetryl (T)

0.000min 0.000 ug/L d

response 0

Manual Integration:

Before

03/29/17

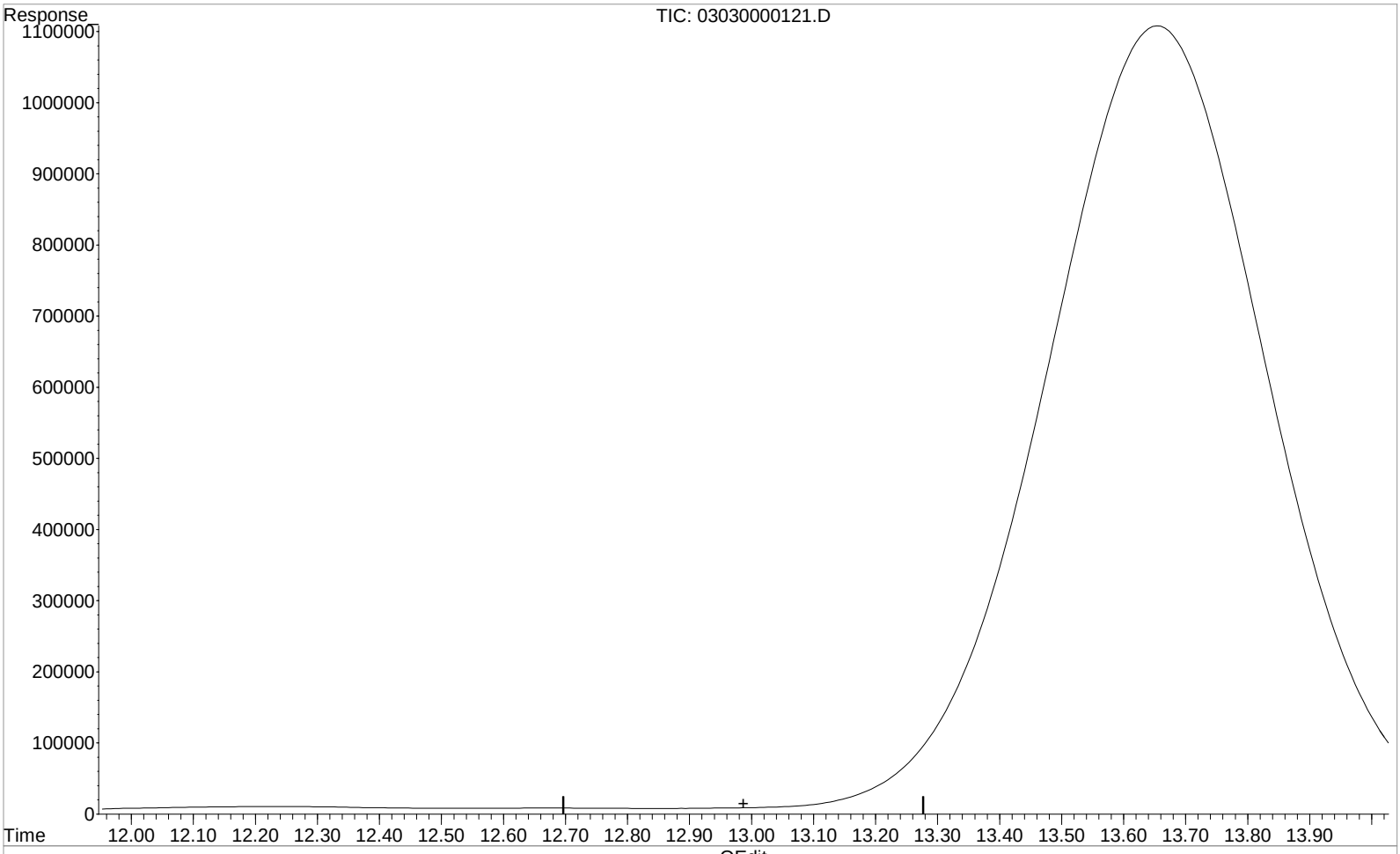
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\030317_8330_254\03030000121.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 03:46:07 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 16:34:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(14) Tetryl (T)

0.000min 0.000 ug/L d

response 0

Manual Integration:

Before

03/29/17

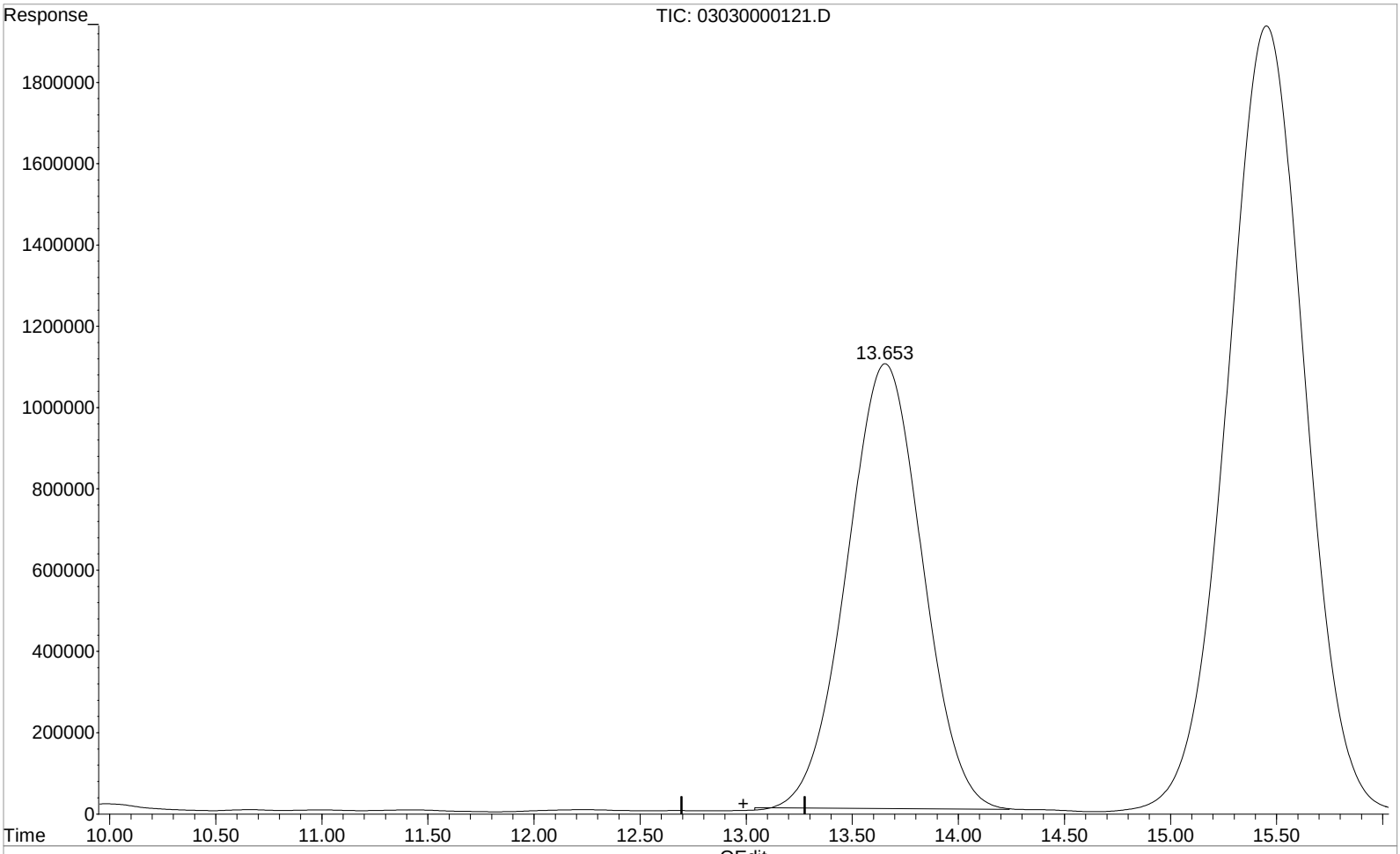
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\030317_8330_254\03030000121.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 03:46:07 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 16:34:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(14) Tetryl (T)

13.653min 920.195 ug/L m

response 27017376

Manual Integration:

After

BLC

03/29/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

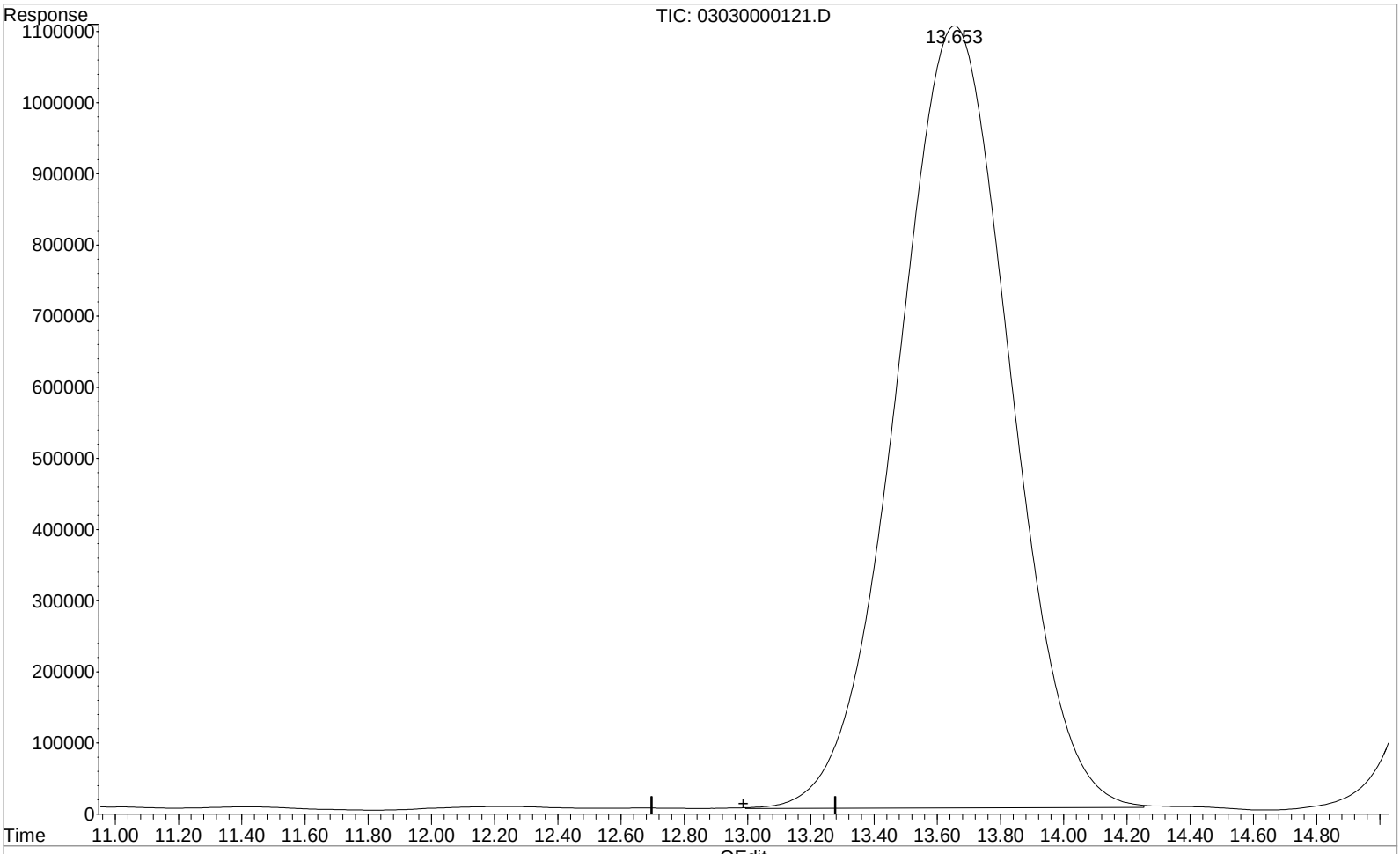
1st 03/29/17

2nd 03/29/17

Data File : J:\LC08\Data\030317_8330_254\03030000121.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 03:46:07 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 16:34:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(14) Tetryl (T)

13.653min 933.106 ug/L m

response 27396461

Manual Integration:

After

BLC

03/29/17

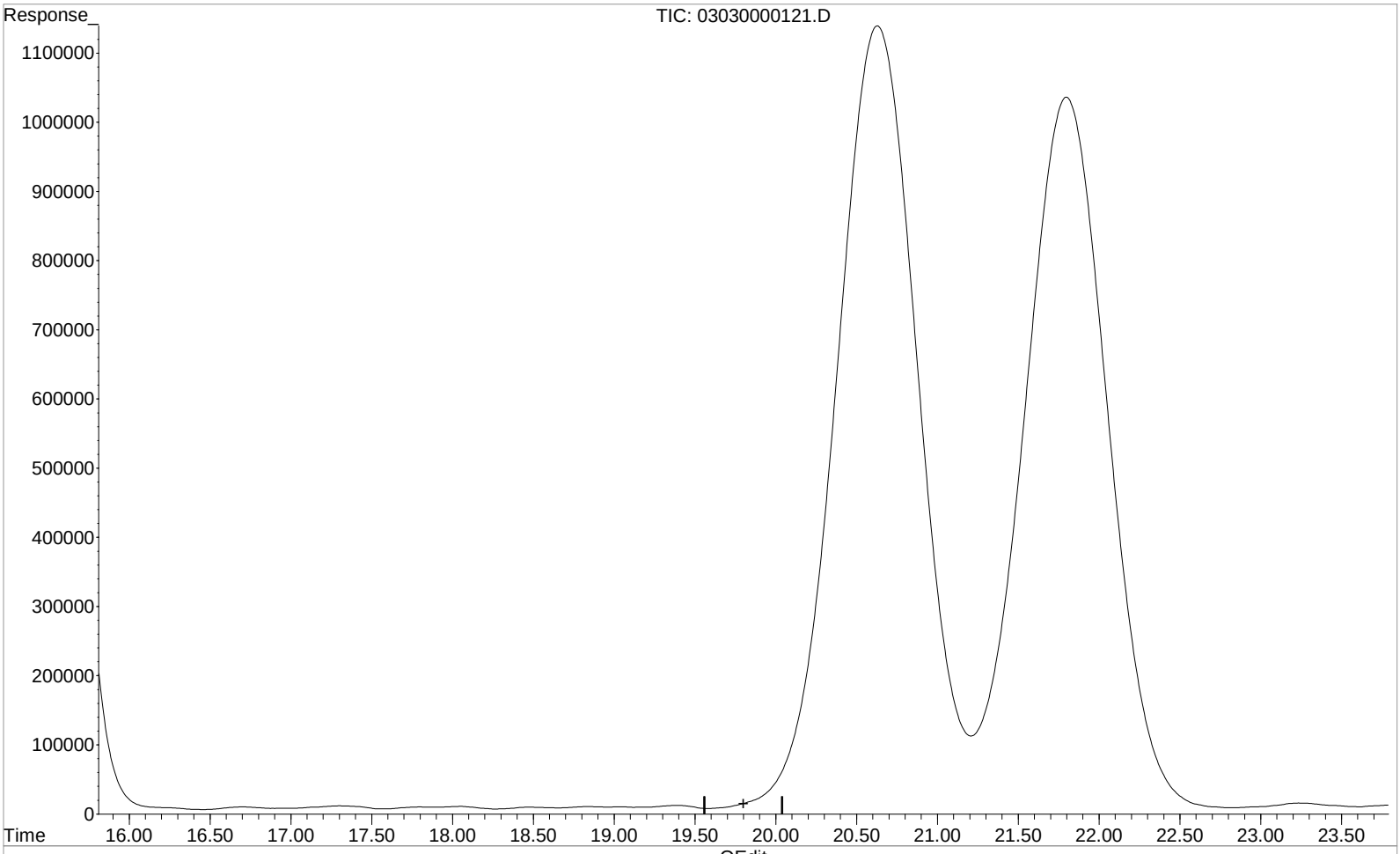
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\030317_8330_254\03030000121.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 03:46:07 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 16:34:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(15) 1,3,5-TNB (T)

19.800min 0.000 ug/L

response 0

Manual Integration:

Before

03/29/17

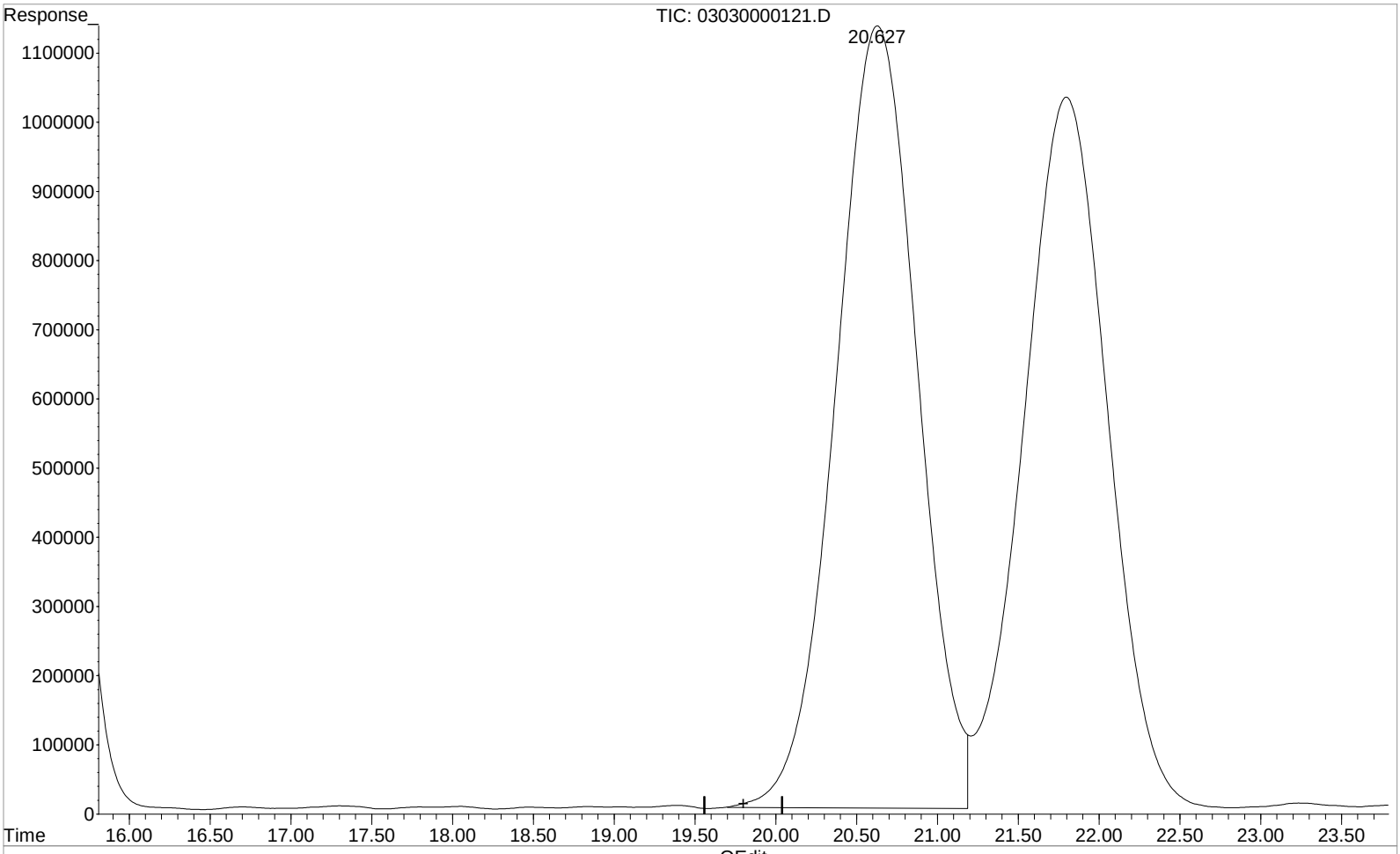
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\030317_8330_254\03030000121.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 03:46:07 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 16:34:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(15) 1,3,5-TNB (T)

20.627min 938.033 ug/L m

response 39523359

Manual Integration:

After

BLC

03/29/17

(+) = Expected Retention Time

(b)(6)

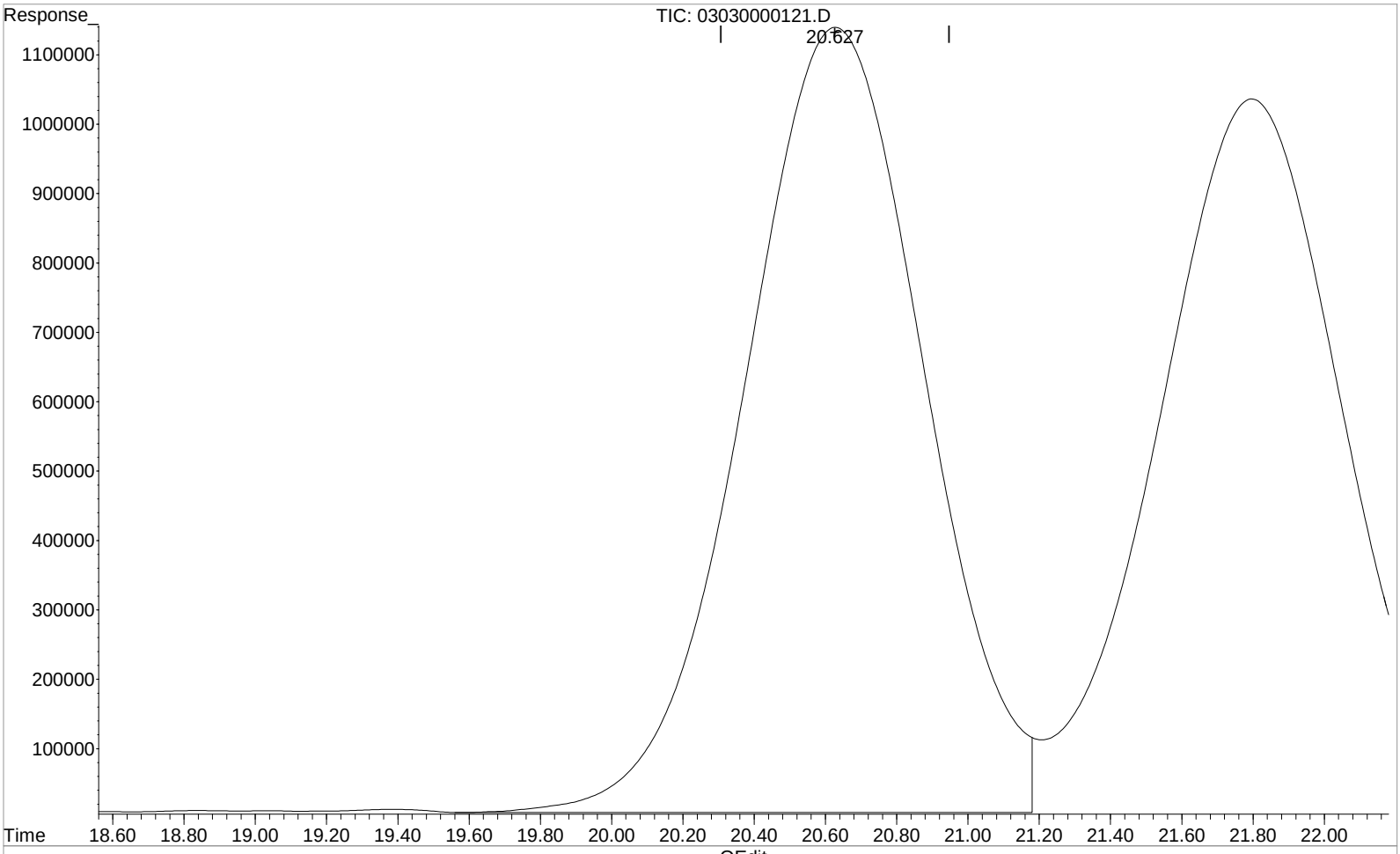
1st 03/29/17

2nd 03/29/17

Data File : J:\LC08\Data\030317_8330_254\03030000121.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 03:46:07 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 16:34:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(16) 2,4,6-TNT (T)

20.627min 1019.115 ug/L

response 39544075

Manual Integration:

Before

03/29/17

(+) = Expected Retention Time

(b)(6)

1st 03/29/17

2nd 03/29/17

Data File : J:\LC08\Data\030317_8330_254\03030000121.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 03:46:07 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 16:34:18 2017
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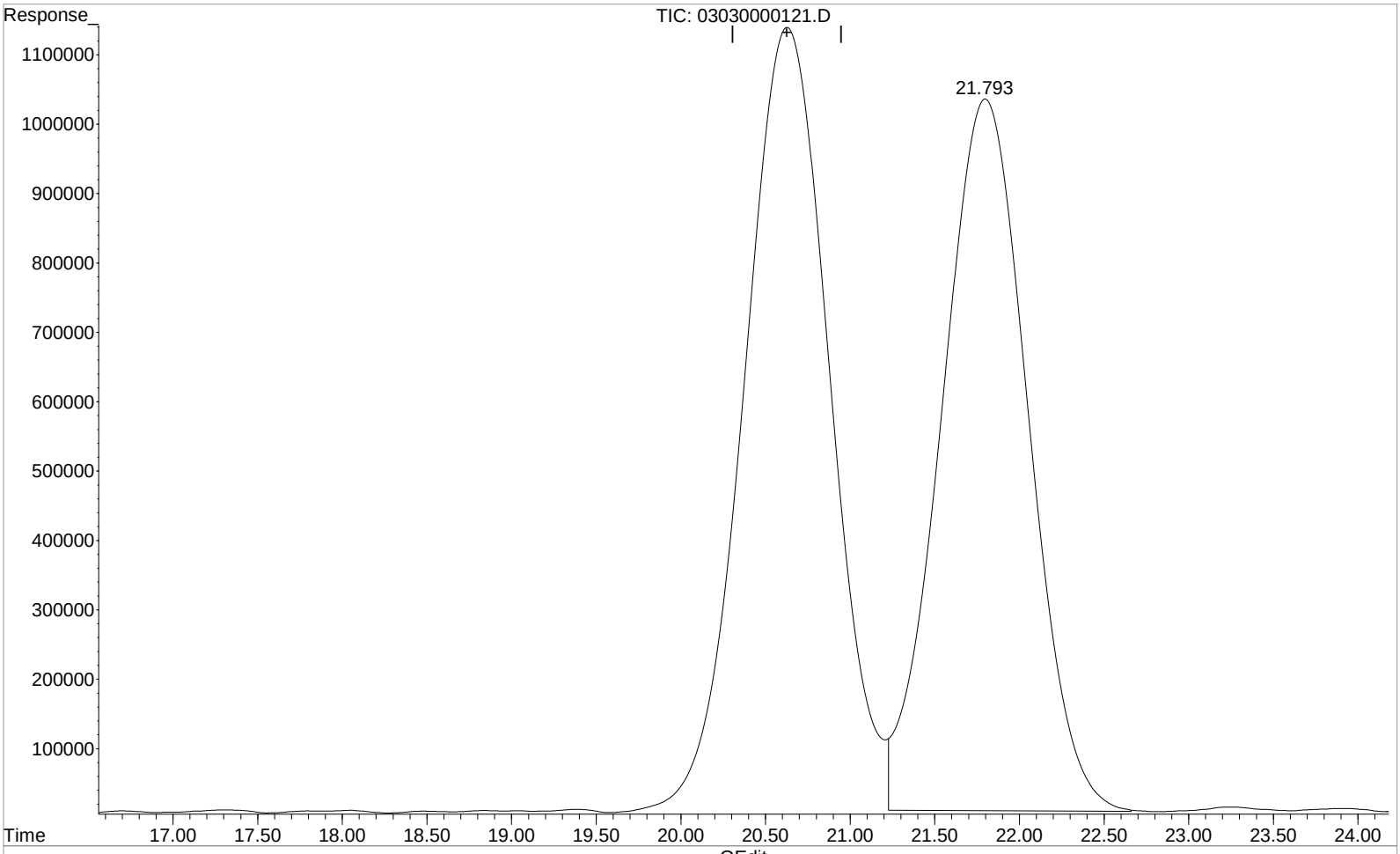
Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(16) 2,4,6-TNT (T)

21.793min 944.689 ug/L m

response 36656192

Manual Integration:

After

WP

03/29/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

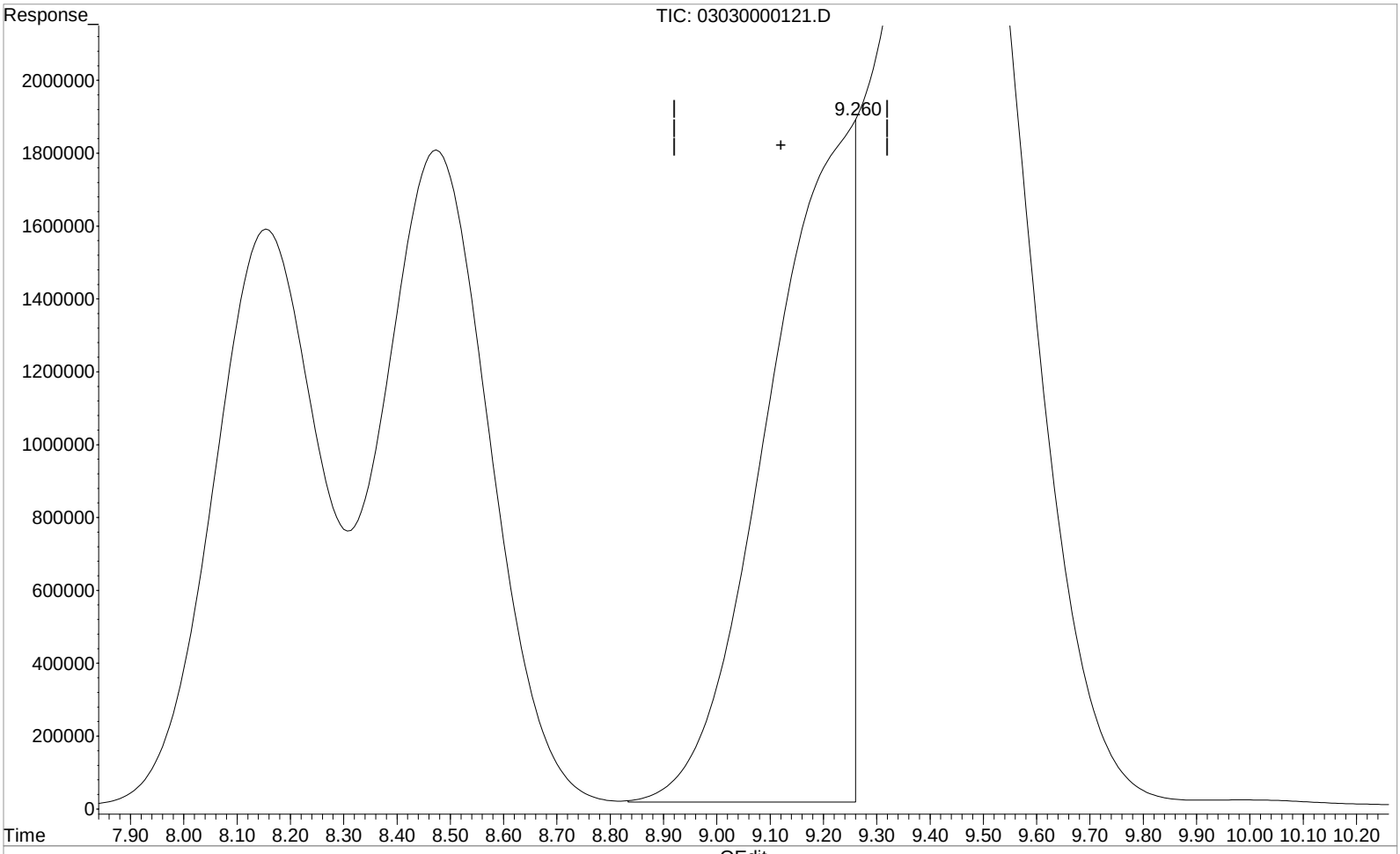
1st 03/29/17

2nd 03/29/17

Data File : J:\LC08\Data\030317_8330_254\03030000121.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 03:46:07 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 16:34:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(9) 1,3-DNB (T)

9.260min 370.941 ug/L m

response 20753566

Manual Integration:

Before

03/29/17

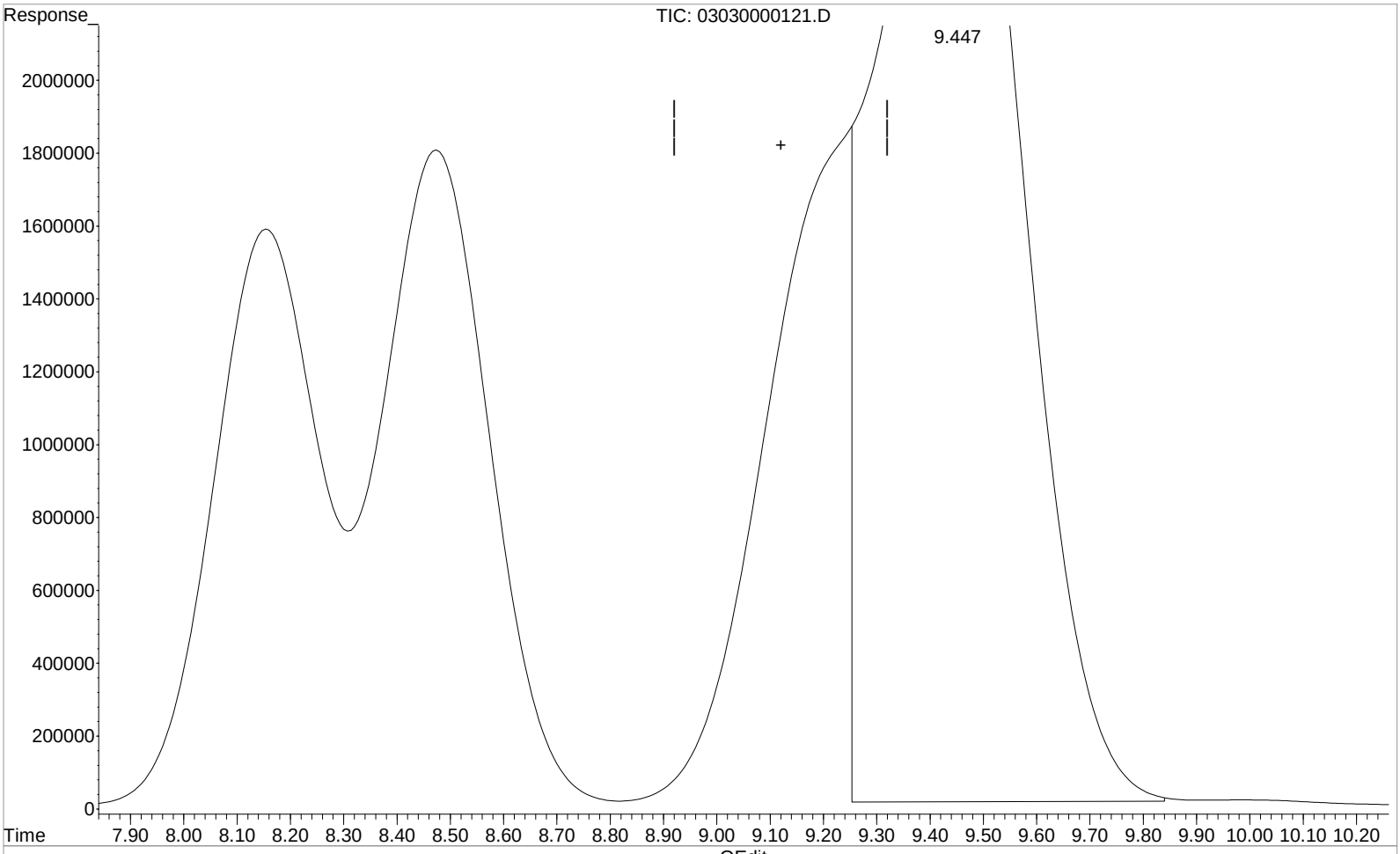
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\030317_8330_254\03030000121.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 03:46:07 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 16:34:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(9) 1,3-DNB (T)

9.447min 1003.740 ug/L m

response 56157638

Manual Integration:

After

BLC

03/29/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC08\DATA\030317_8330_254\03030000127.
Lab ID: KWG1701981-2
RunType: CCV
Matrix: NOT APPLICABLE

Date Acquired: 03/04/2017 07:27
Date Quantitated: 03/29/2017 16:37
Batch ID: KWG1701981
Analysis Method: 8330B
MethodJoinID: MJ1277

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA		x
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC08\DATA\030317_8330_254\03030000127.D			**Instrument:**	LC08
Acqu Date:	03/04/2017 07:27	**Quant Date:**	03/10/2017 15:29	**Vial:**	4
Run Type:	CCV	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701981-2			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/10/2017

Analysis Lot:	KWG1701981	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC08\METHOD\020917_SHORT	**Calibration ID:**	CAL15192
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	8.15c		20209637	767.96		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX	2.59		14412806	924.70			
RDX	2.85		16684083	896.95			
Nitrobenzene	4.61		34032131	914.76			
3,5-Dinitroaniline	5.41		42479480	913.85			
4-Amino-2,6-dinitrotoluene	5.04		29027247	911.28			
2-Nitrotoluene	6.07		21743371	923.08			
2-Amino-4,6-dinitrotoluene	6.59		37243118	882.78			
3-Nitrotoluene	7.25		25287604	904.96			
1,3-Dinitrobenzene			0				
4-Nitrotoluene	8.15c		20209637	866.97			
2,6-Dinitrotoluene	8.47		25702893	1,050			
2,4-Dinitrotoluene			0				
TETRYL			0				
1,3,5-Trinitrobenzene			0				
2,4,6-Trinitrotoluene	20.59		38044625	980.47			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\030317_8330_254\03030000127.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 07:27:27 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 29 16:37:13 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds							
11)	S	1-Chloro-3-Nitrobenzene	8.467f	24419903	927.946	ug/L	m
Target Compounds							
1)	T	HMX	2.587	14415783	924.889	ug/L	m
2)	T	RDX	2.847	16289972	875.766	ug/L	m
3)	T	Nitrobenzene	4.607	33962645	912.889	ug/L	m
4)	T	3,5-Dinitroaniline	5.407	42479480	913.847	ug/L	
5)	T	4-Amino-2,6-DNT	5.040	29027247	911.276	ug/L	
6)	T	2-NT	6.073	21743371	923.084	ug/L	
7)	T	2-Amino-4,6-DNT	6.593	38276902	907.284	ug/L	m
8)	T	3-NT	7.253	25287604	904.964	ug/L	
9)	T	1,3-DNB	9.433f	49750446	889.220	ug/L	m
10)	T	4-NT	8.147	20209637	866.967	ug/L	
12)	T	2,6-DNT	8.147f	21755485	889.063	ug/L	m
13)	T	2,4-DNT	15.427f	46068934	875.774	ug/L	m
14)	T	Tetryl	13.633f	26927030	917.118	ug/L	m
15)	T	1,3,5-TNB	20.593f	38020318	902.360	ug/L	m
16)	T	2,4,6-TNT	21.760f	34840646	897.900	ug/L	m

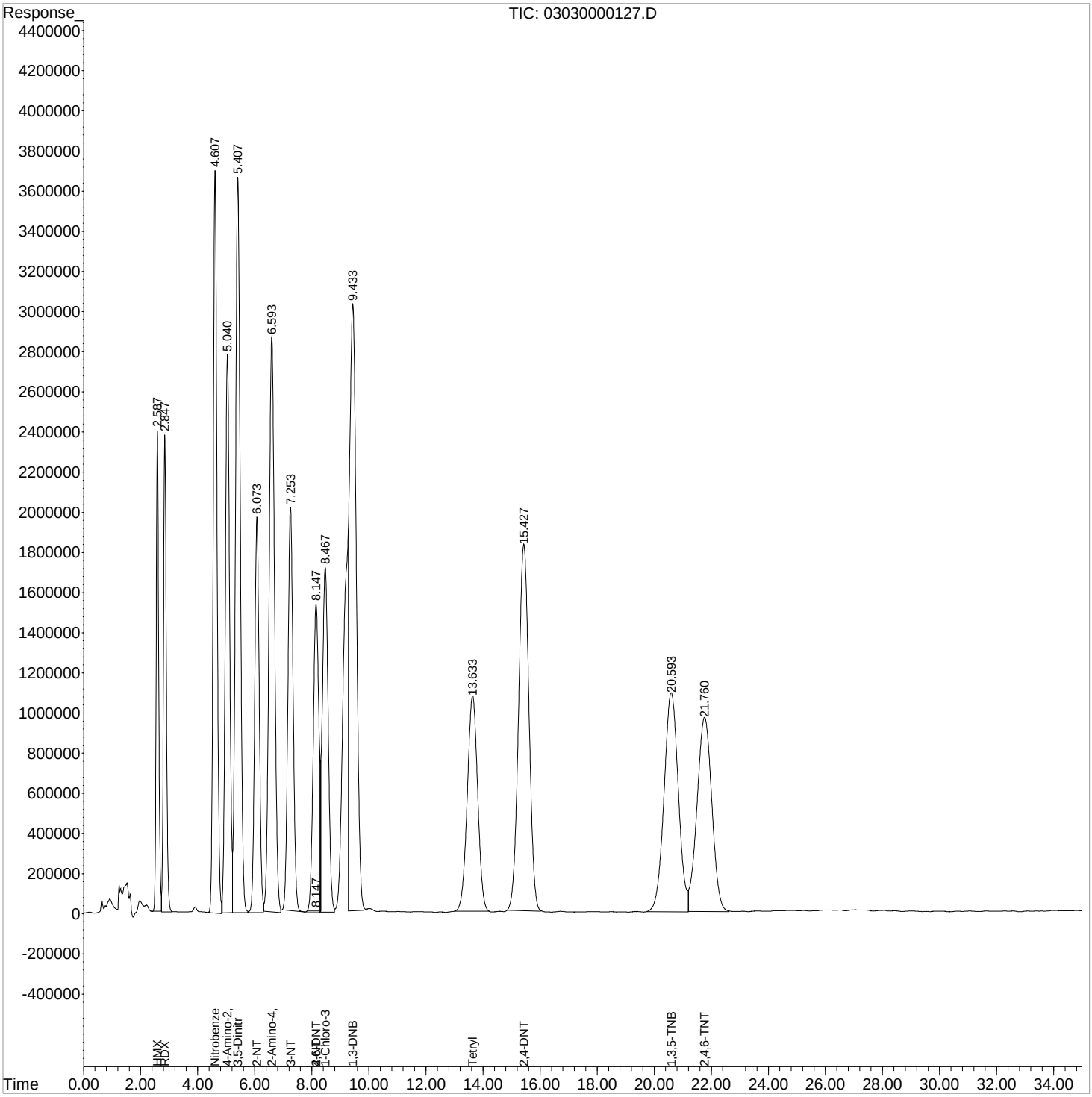
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\030317_8330_254\03030000127.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 07:27:27 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 29 16:37:13 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

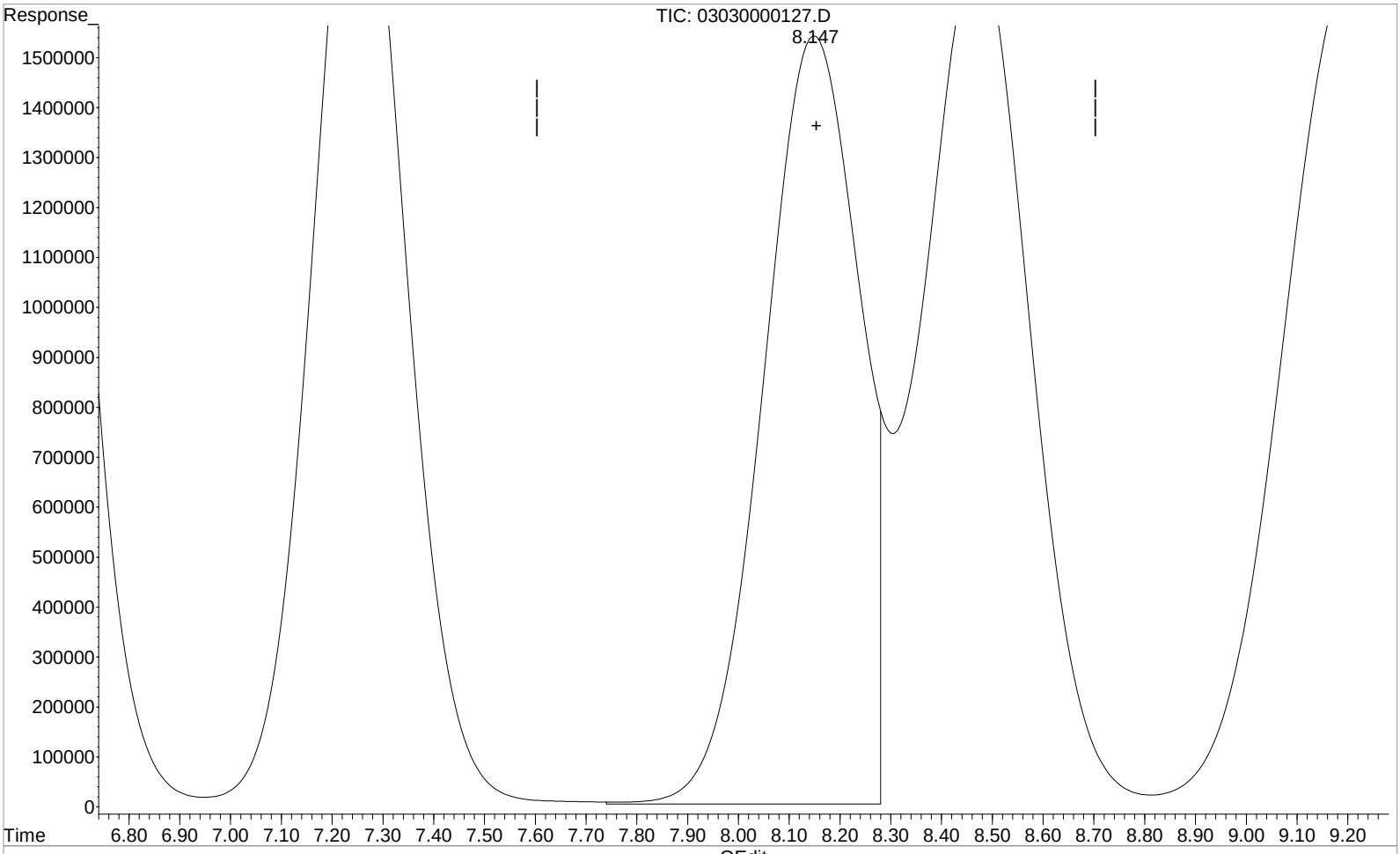


Quantitation Report (Qedit)

Data File : J:\LC08\Data\030317_8330_254\03030000127.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 07:27:27 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 16:29:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(11) 1-Chloro-3-Nitrobenzene (S)

8.147min 767.958 ug/L

response 20209637

Manual Integration:

Before

03/29/17

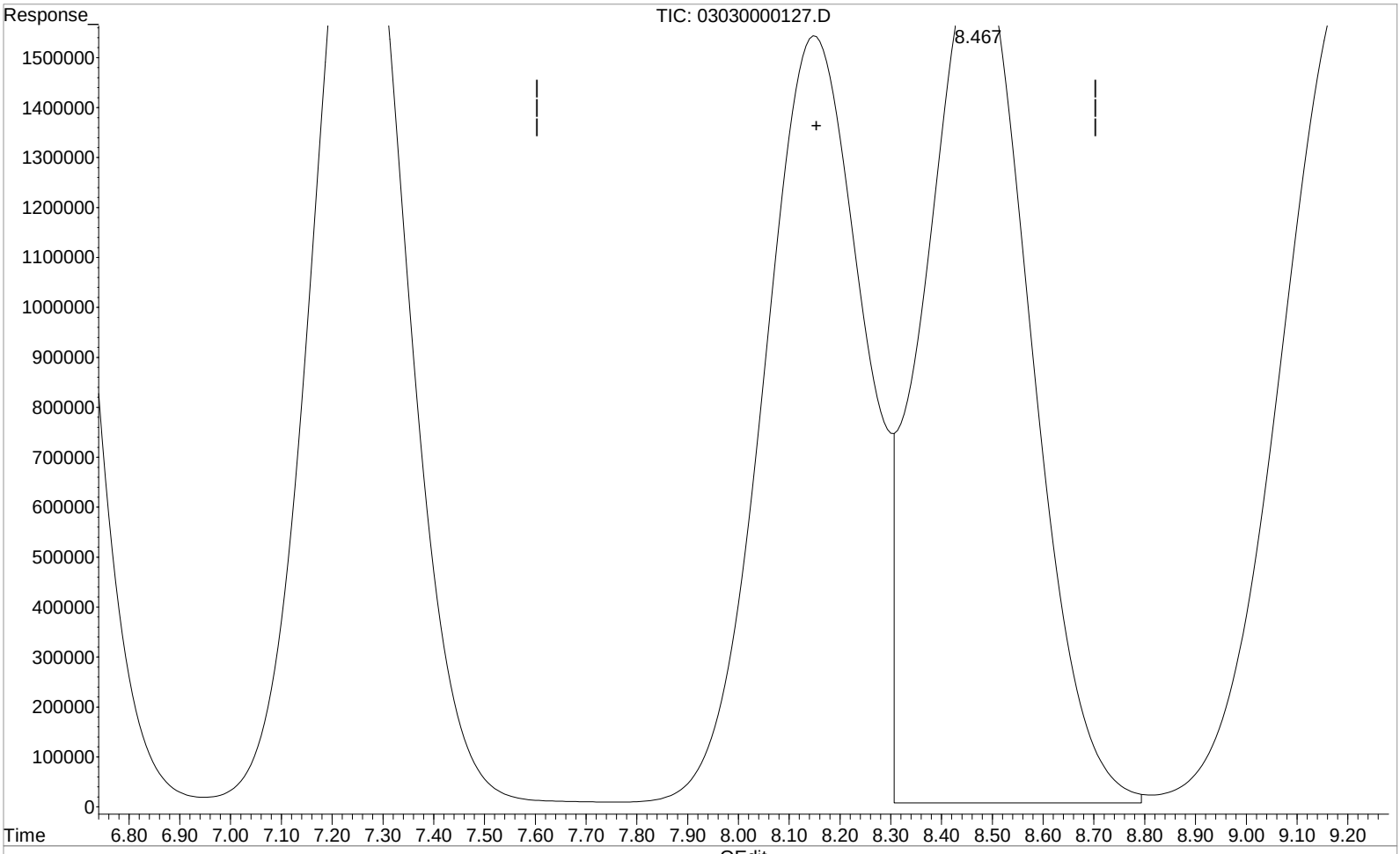
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\030317_8330_254\03030000127.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 07:27:27 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 16:29:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(11) 1-Chloro-3-Nitrobenzene (S)

8.467min 927.946 ug/L m

response 24419903

Manual Integration:

After

BLC

03/29/17

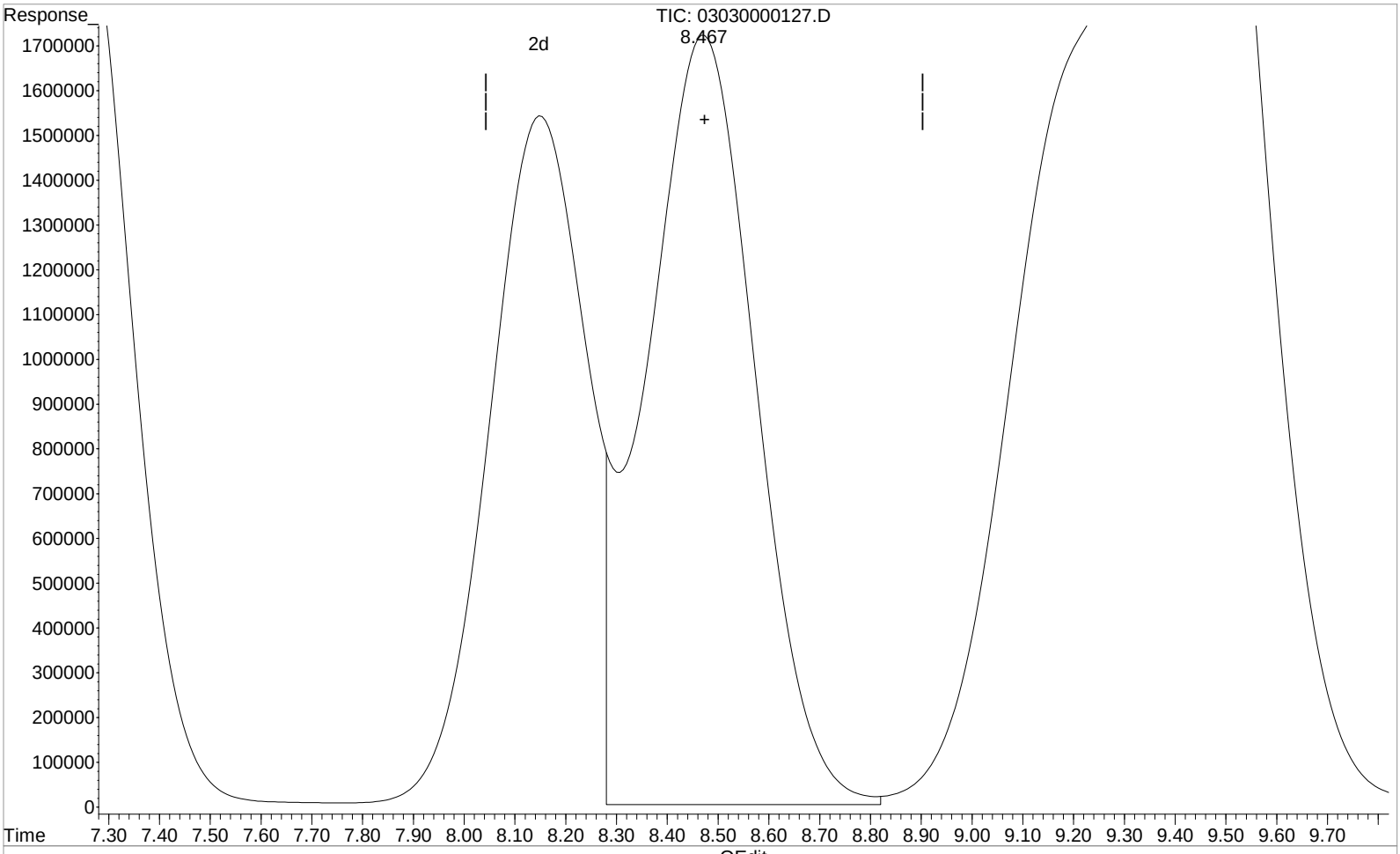
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\030317_8330_254\03030000127.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 07:27:27 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 16:29:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(12) 2,6-DNT (T)

8.467min 1050.379 ug/L

response 25702893

Manual Integration:

Before

03/29/17

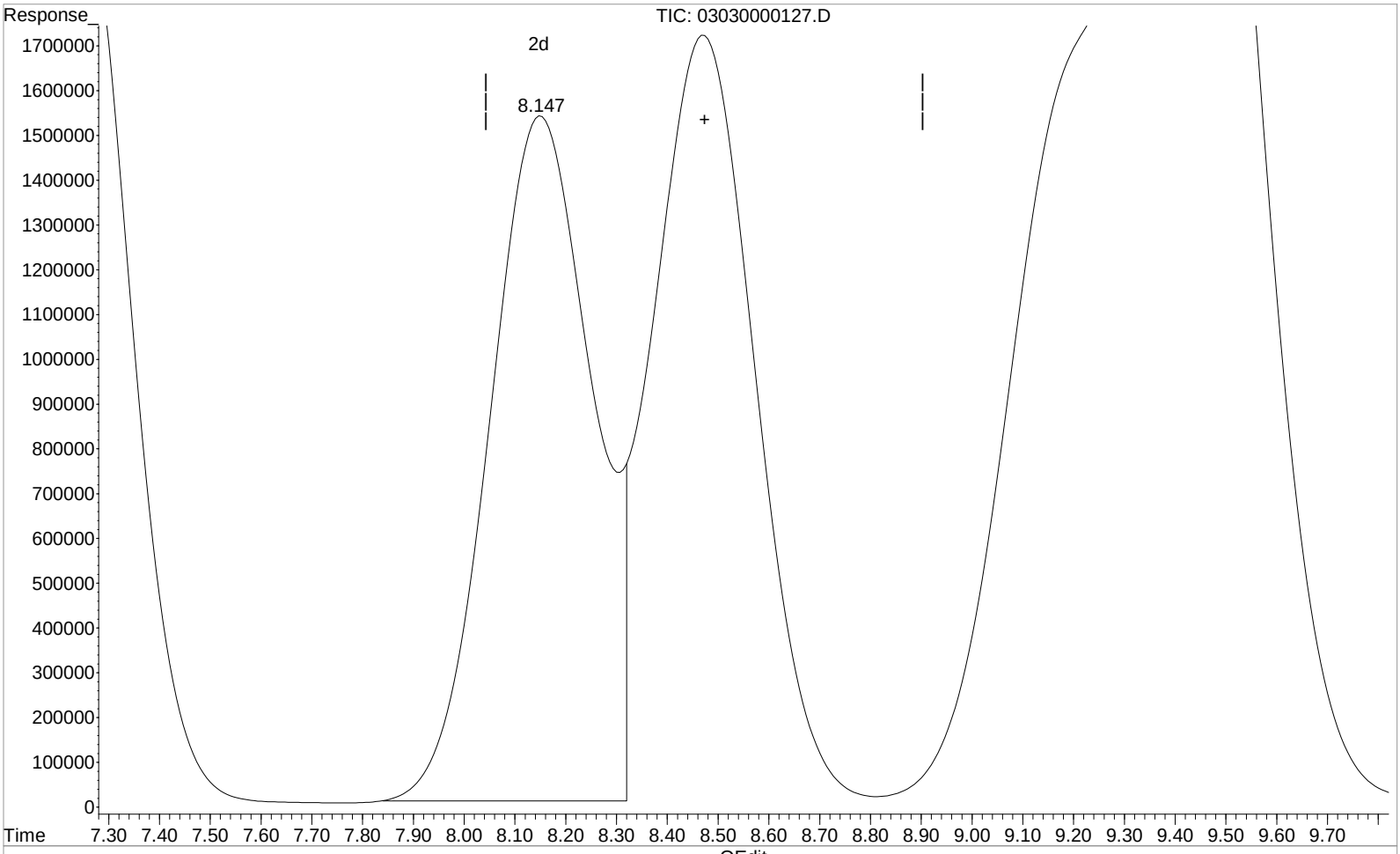
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\030317_8330_254\03030000127.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 07:27:27 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 16:29:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(12) 2,6-DNT (T)

8.147min 889.063 ug/L m

response 21755485

Manual Integration:

After

WP

03/29/17

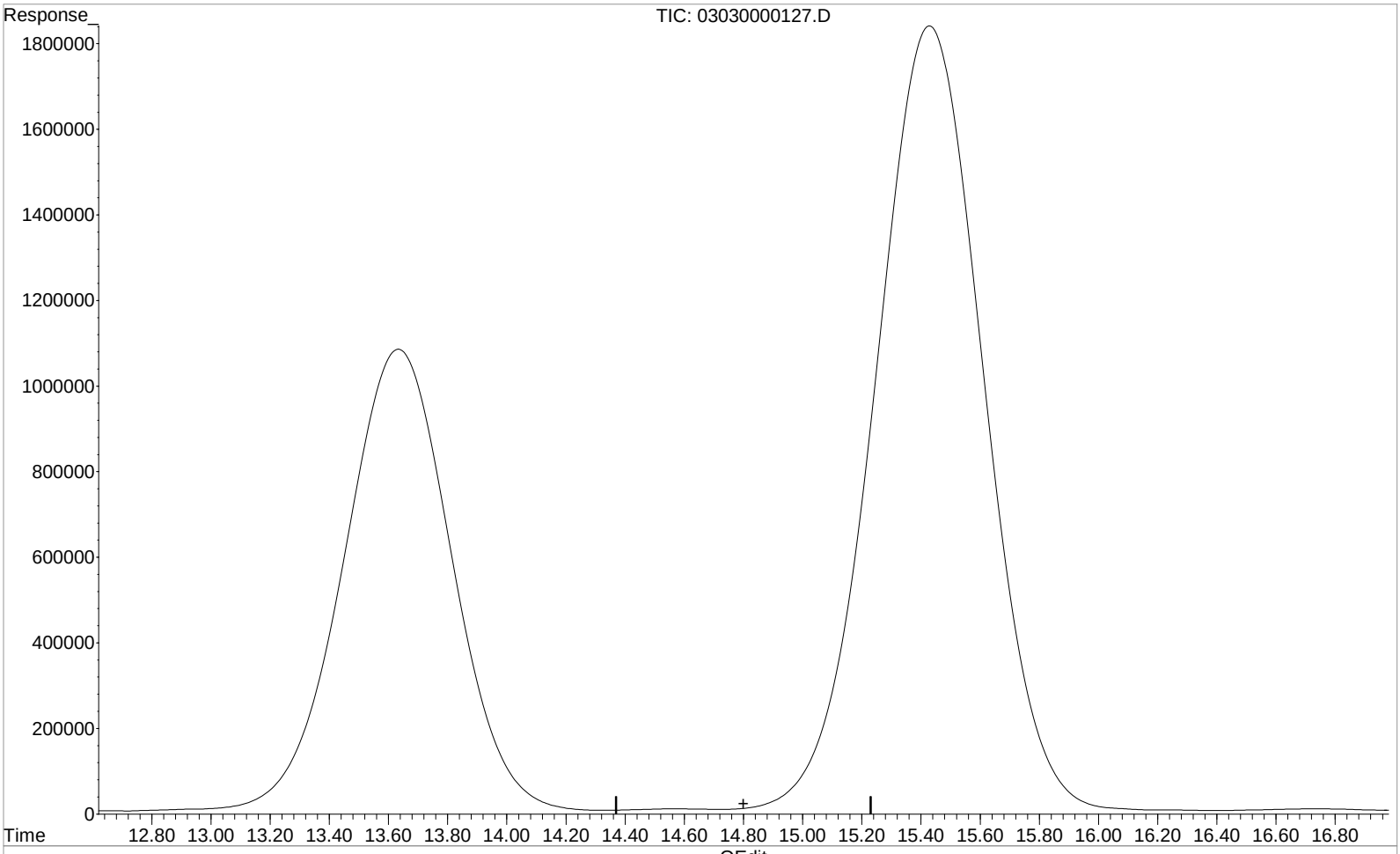
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\030317_8330_254\03030000127.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 07:27:27 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 16:29:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(13) 2,4-DNT (T)

14.800min 0.000 ug/L

response 0

Manual Integration:

Before

03/29/17

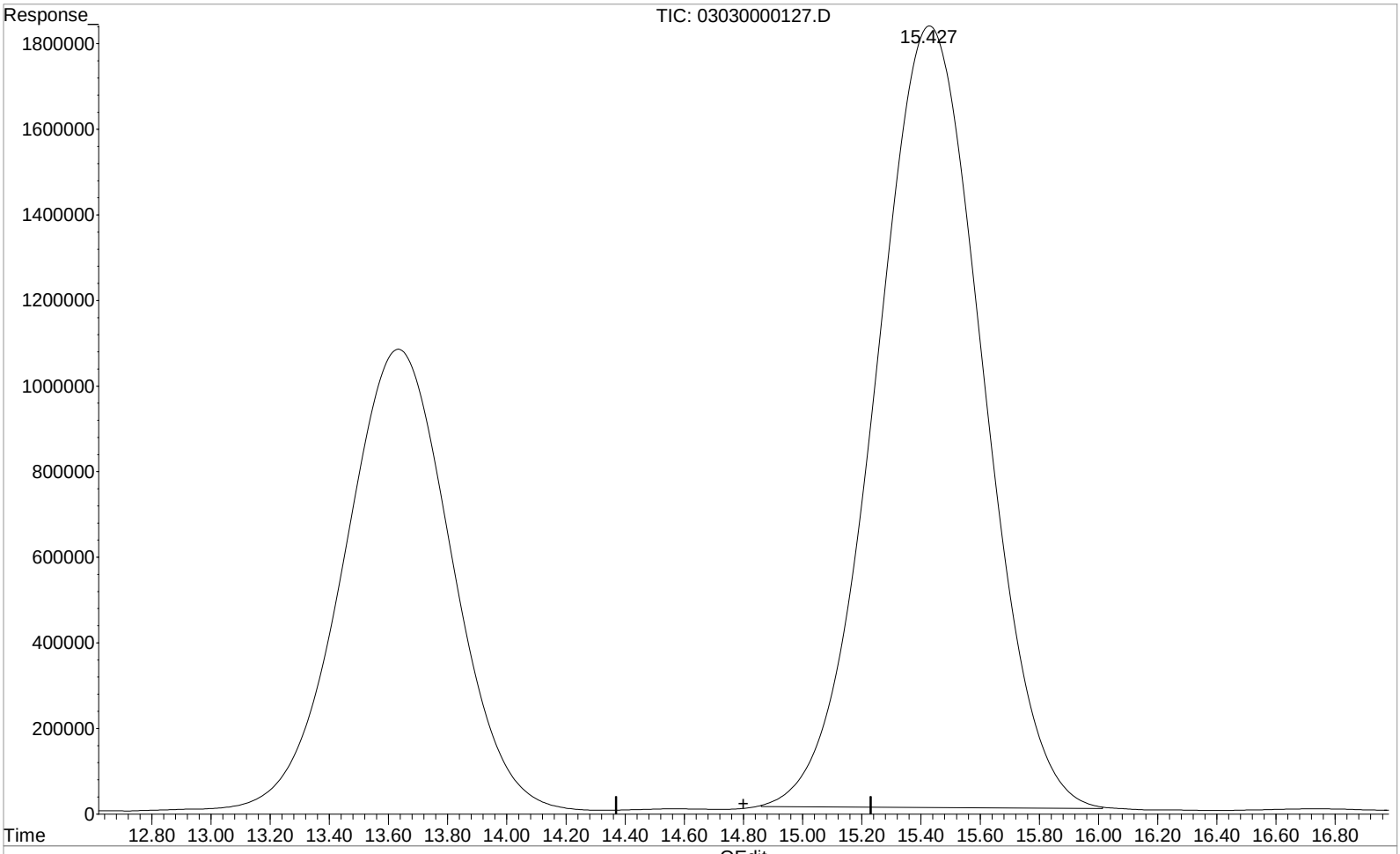
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\030317_8330_254\03030000127.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 07:27:27 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 16:29:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(13) 2,4-DNT (T)

15.427min 875.774 ug/L m

response 46068934

Manual Integration:

After

BLC

03/29/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\030317_8330_254\03030000127.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 07:27:27 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
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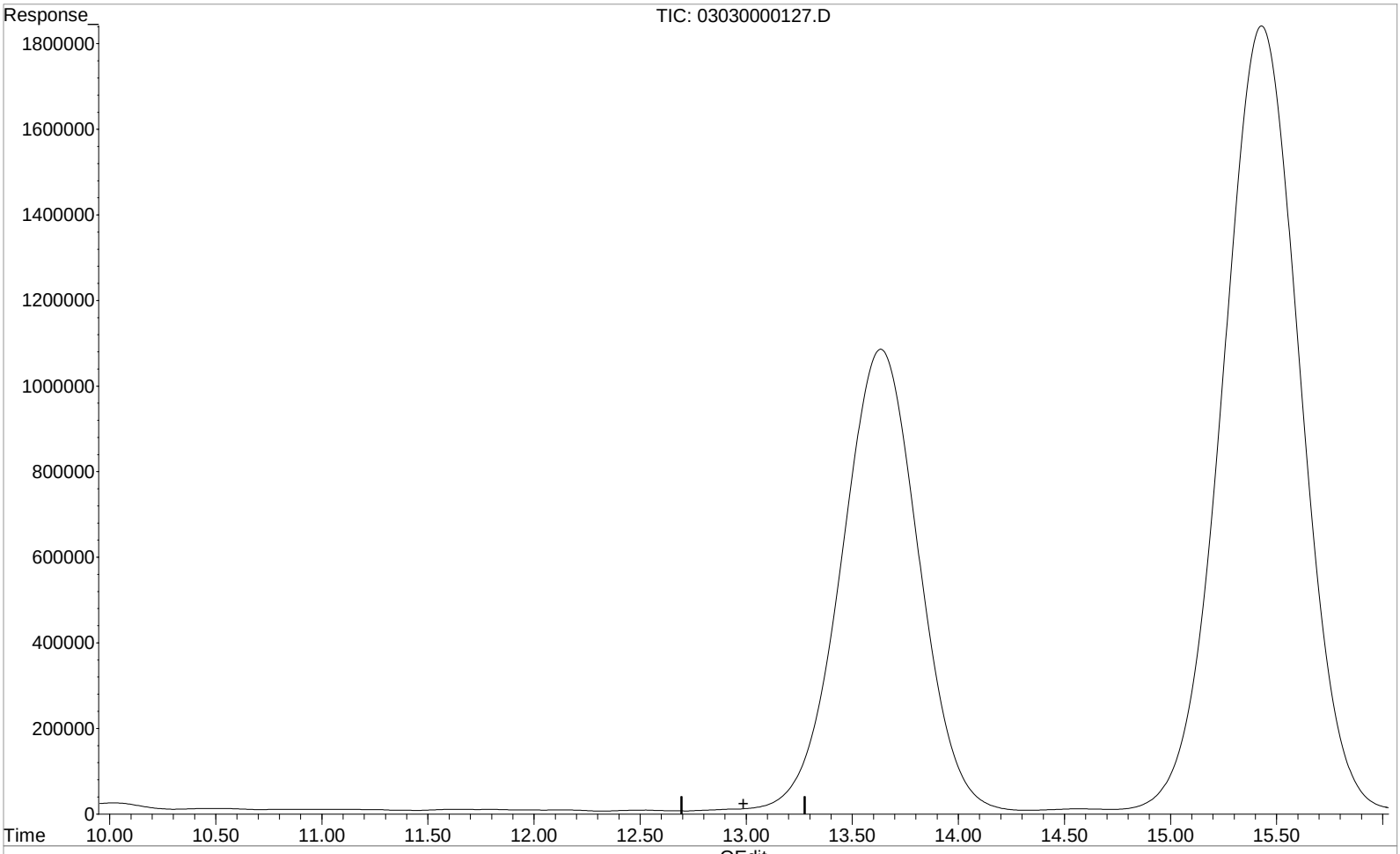
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(14) Tetryl (T)

12.987min 0.000 ug/L

response 0

Manual Integration:

Before

03/29/17

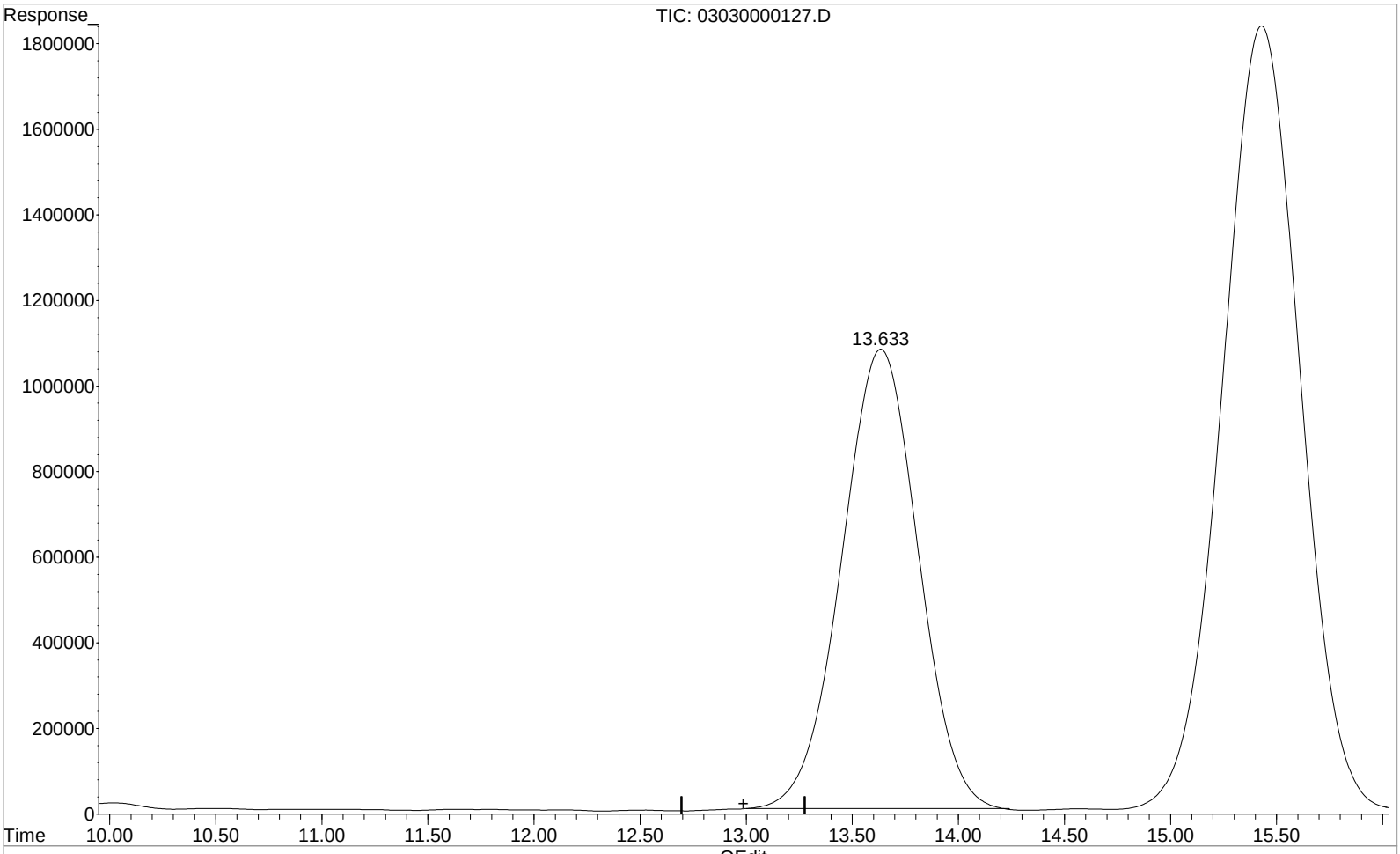
(+) = Expected Retention Time

(b)(6)
1st 03/29/17
2nd 03/29/17

Data File : J:\LC08\Data\030317_8330_254\03030000127.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 07:27:27 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 16:29:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(14) Tetryl (T)

13.633min 917.118 ug/L m

response 26927030

Manual Integration:

After

BLC

03/29/17

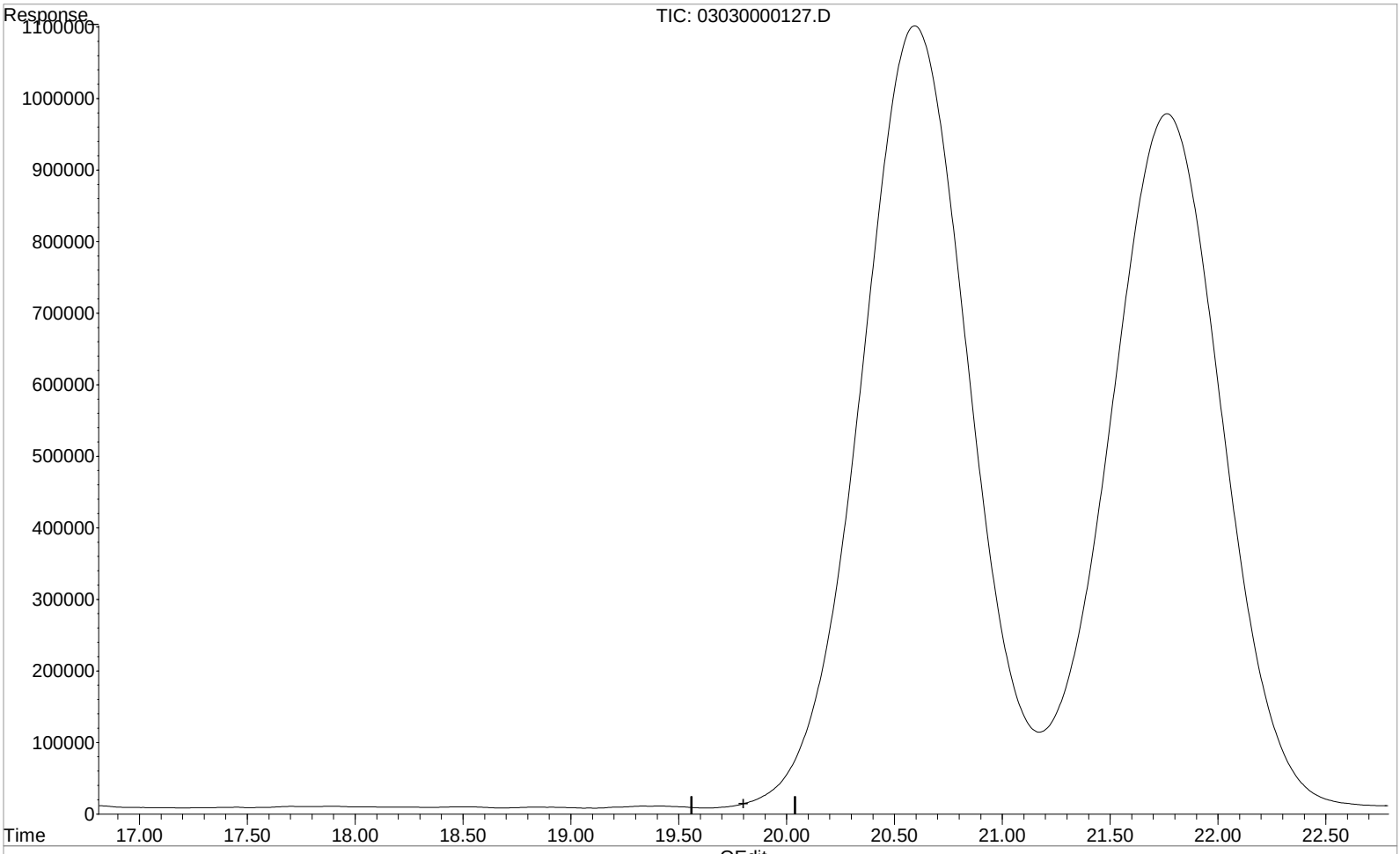
(+) = Expected Retention Time

(b)
(6)
1st 03/29/17
2nd 03/29/17

Data File : J:\LC08\Data\030317_8330_254\03030000127.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 07:27:27 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 16:29:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(15) 1,3,5-TNB (T)

19.800min 0.000 ug/L

response 0

Manual Integration:

Before

03/29/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st (b) (6) 03/29/17
2nd [redacted] 03/29/17

Data File : J:\LC08\Data\030317_8330_254\03030000127.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 07:27:27 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
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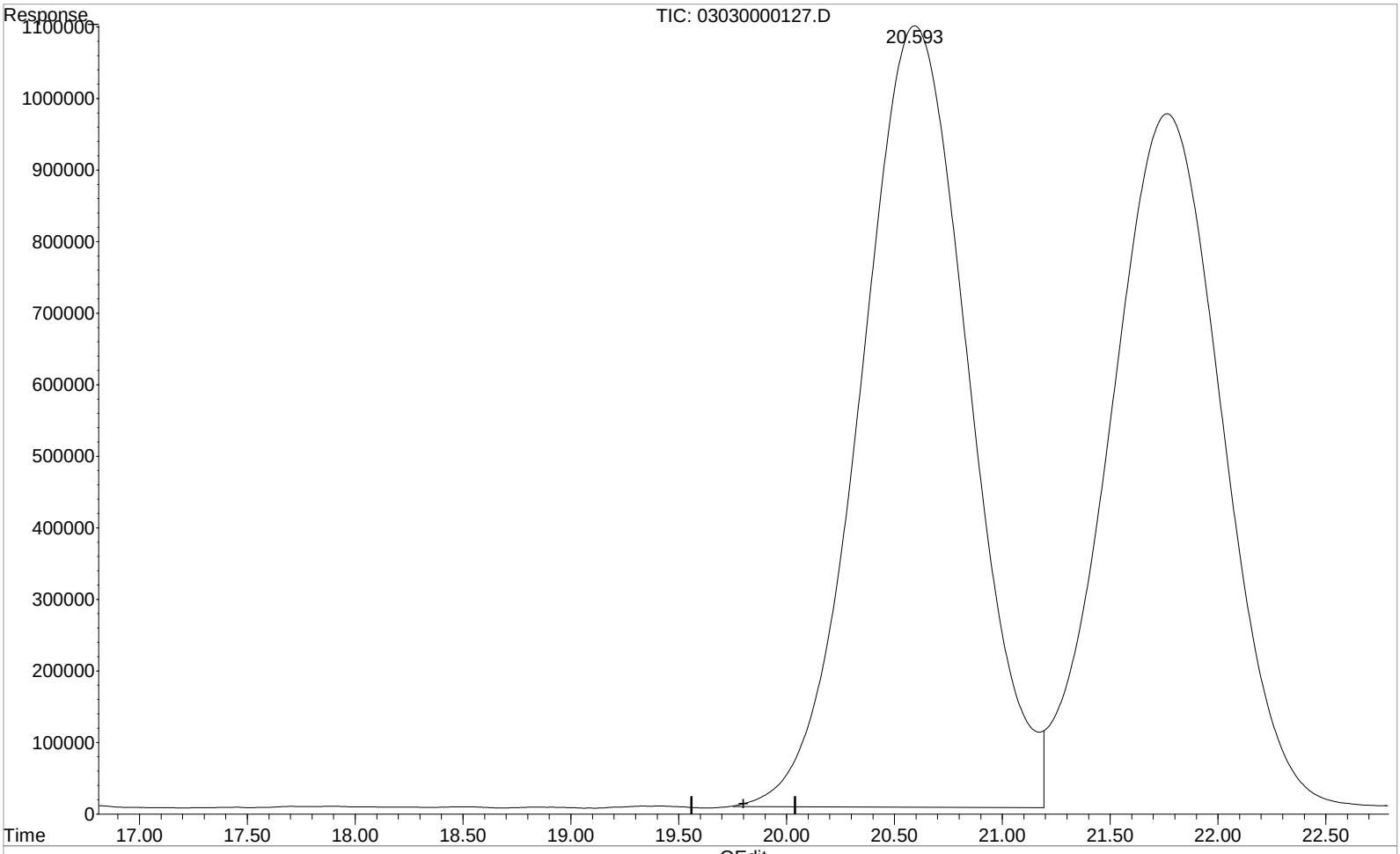
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(15) 1,3,5-TNB (T)

20.593min 902.360 ug/L m

response 38020318

Manual Integration:

After

BLC

03/29/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\030317_8330_254\03030000127.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 07:27:27 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
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Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
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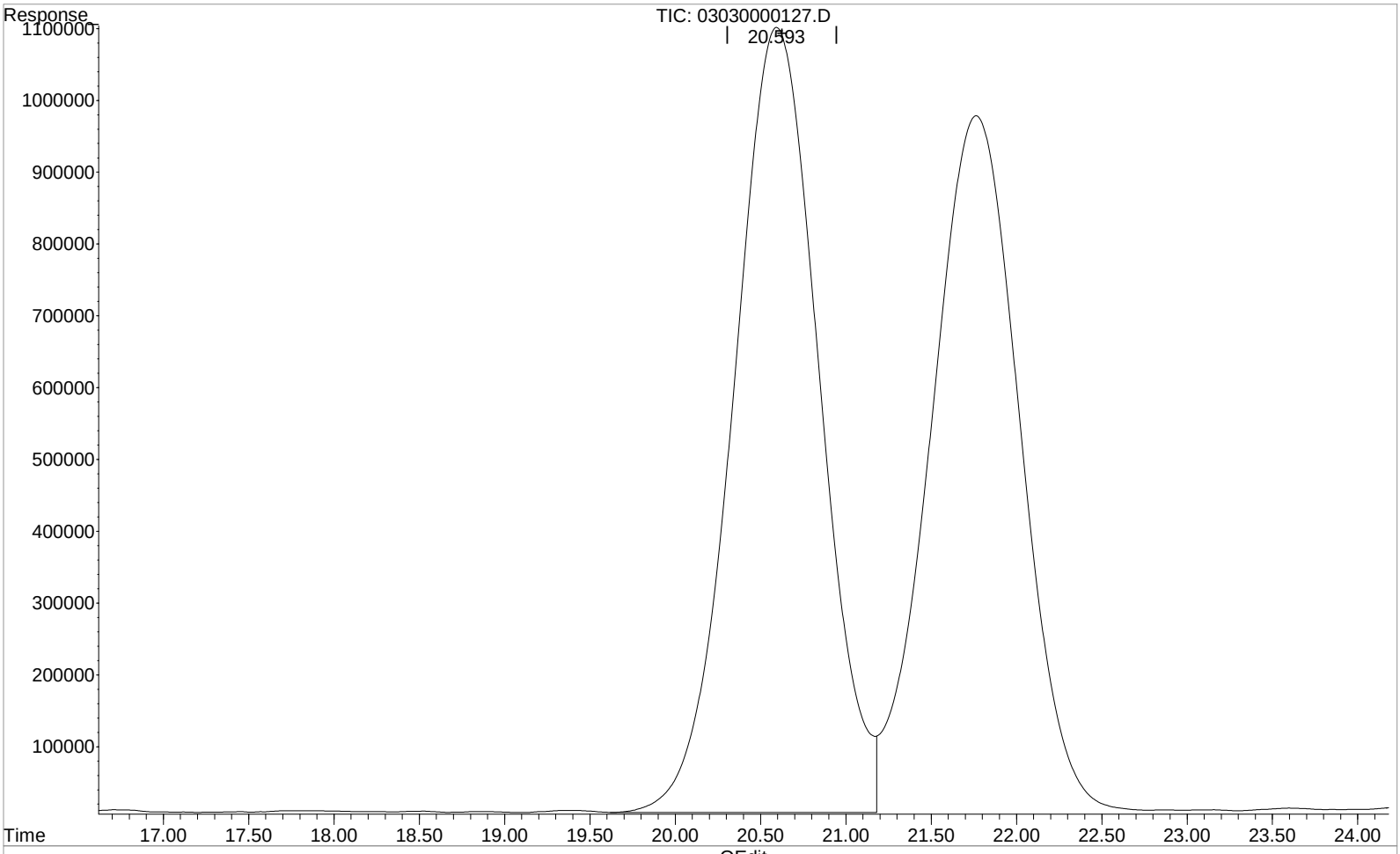
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(16) 2,4,6-TNT (T)

20.593min 980.471 ug/L

response 38044625

Manual Integration:

Before

03/29/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\030317_8330_254\03030000127.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 07:27:27 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
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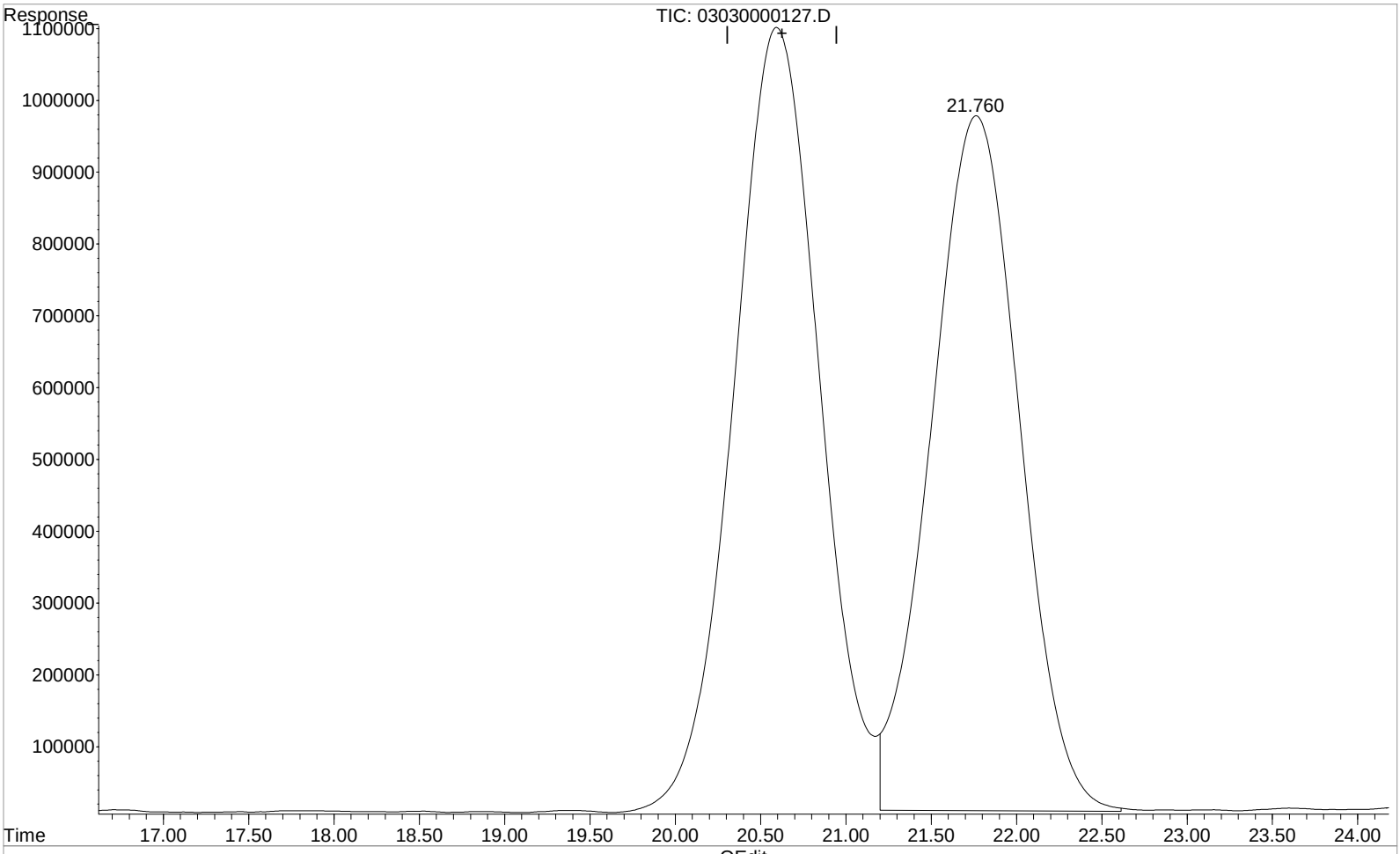
Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(16) 2,4,6-TNT (T)

21.760min 897.900 ug/L m

response 34840646

Manual Integration:

After

BLC

03/29/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

1st 03/29/17

2nd 03/29/17

Data File : J:\LC08\Data\030317_8330_254\03030000127.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 07:27:27 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 16:29:20 2017
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Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
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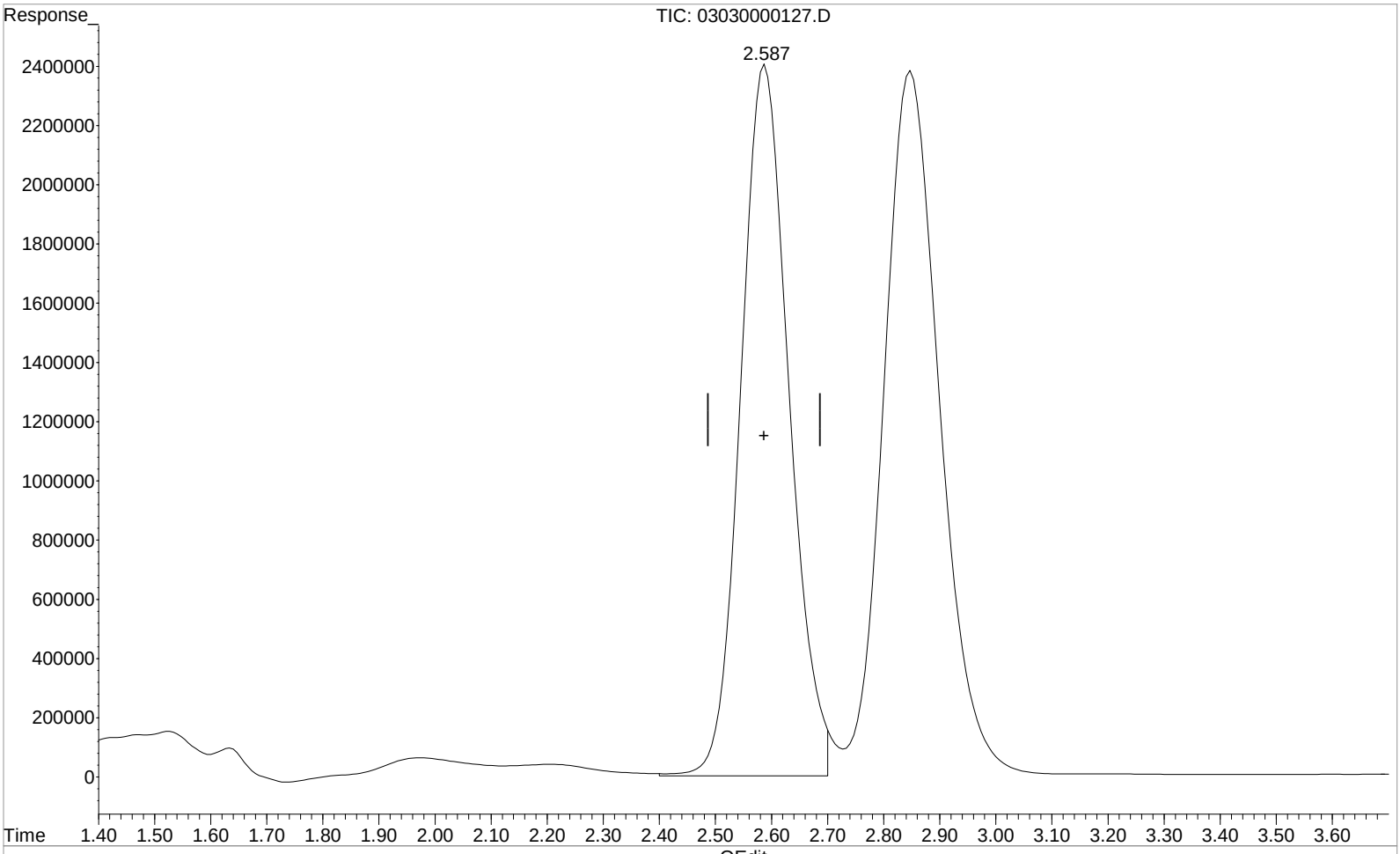
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.587min 924.698 ug/L

response 14412806

Manual Integration:

Before

03/29/17

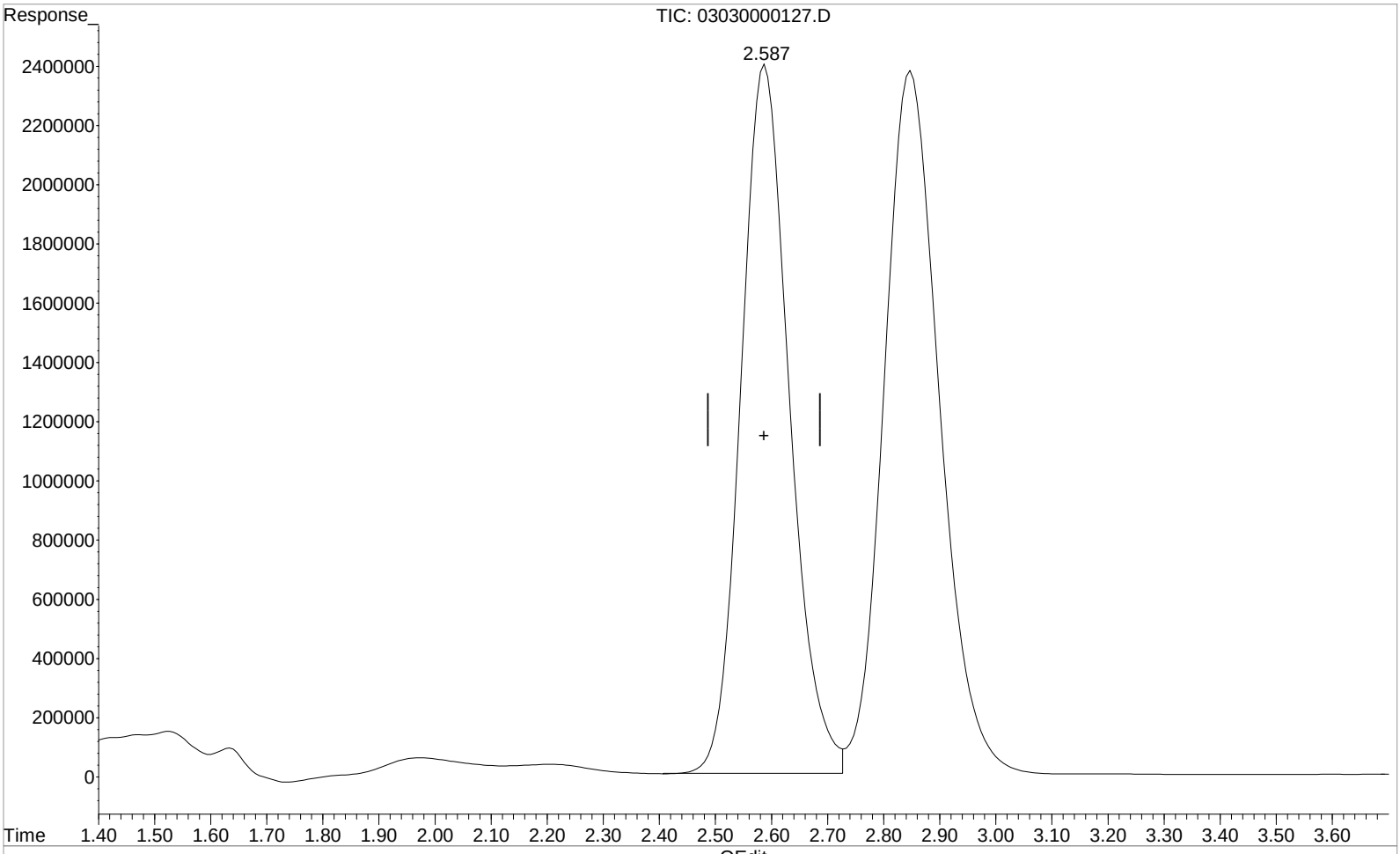
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\030317_8330_254\03030000127.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 07:27:27 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 16:29:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.587min 924.889 ug/L m

response 14415783

Manual Integration:

After

BLC

03/29/17

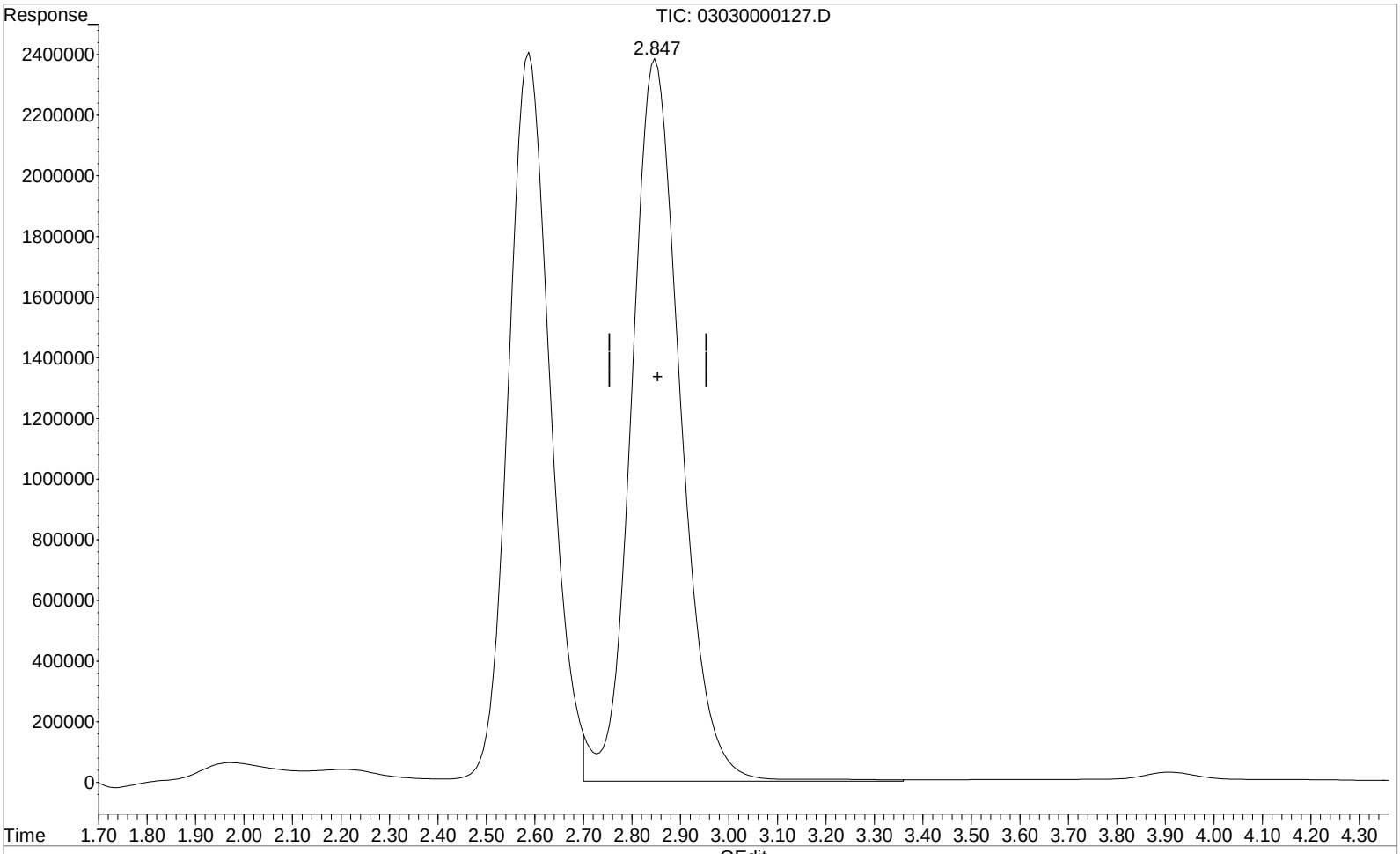
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\030317_8330_254\03030000127.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 07:27:27 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 16:29:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.847min 896.954 ug/L

response 16684083

Manual Integration:

Before

03/29/17

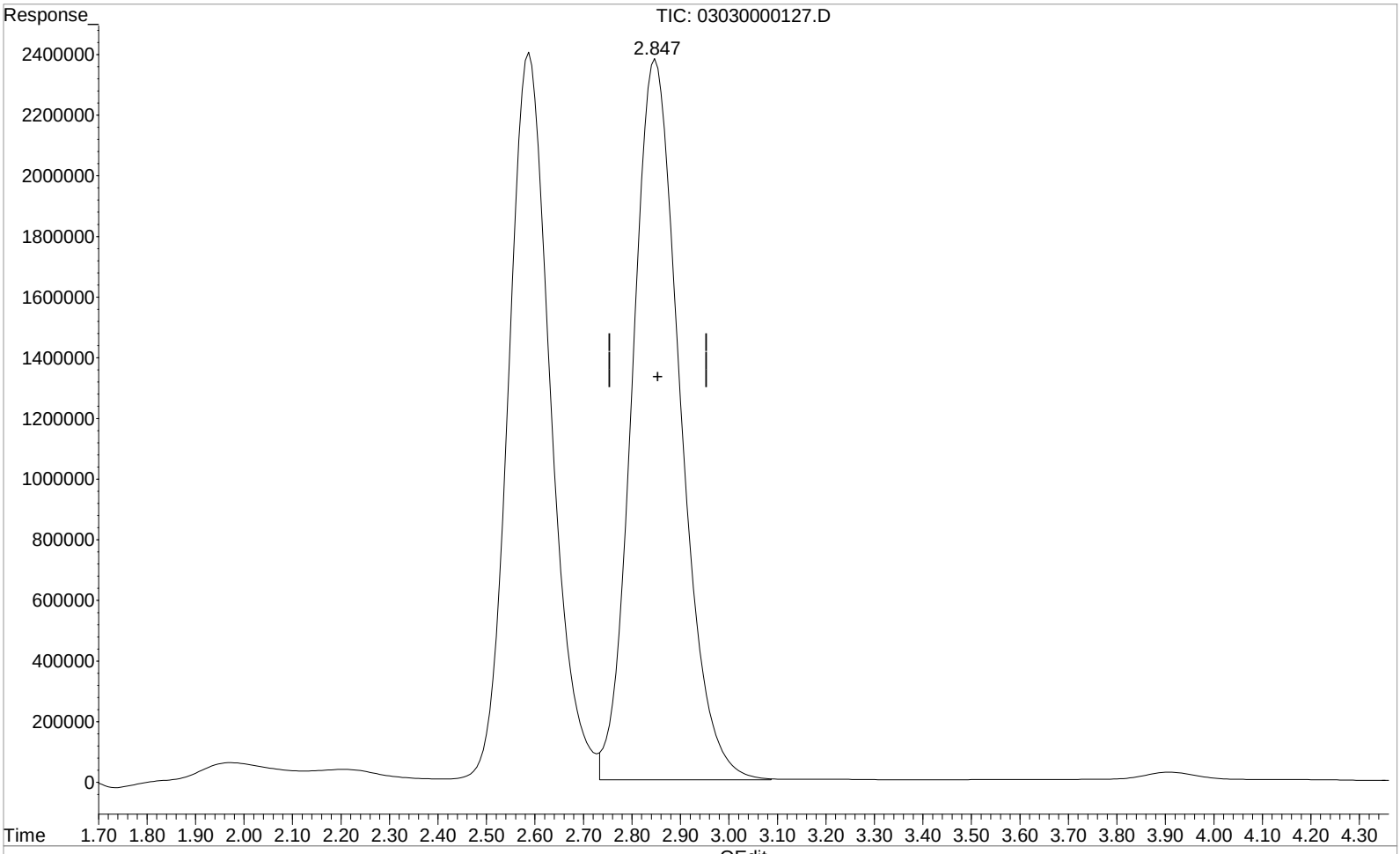
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\030317_8330_254\03030000127.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 07:27:27 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 16:29:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.847min 875.766 ug/L m

response 16289972

Manual Integration:

After

BLC

03/29/17

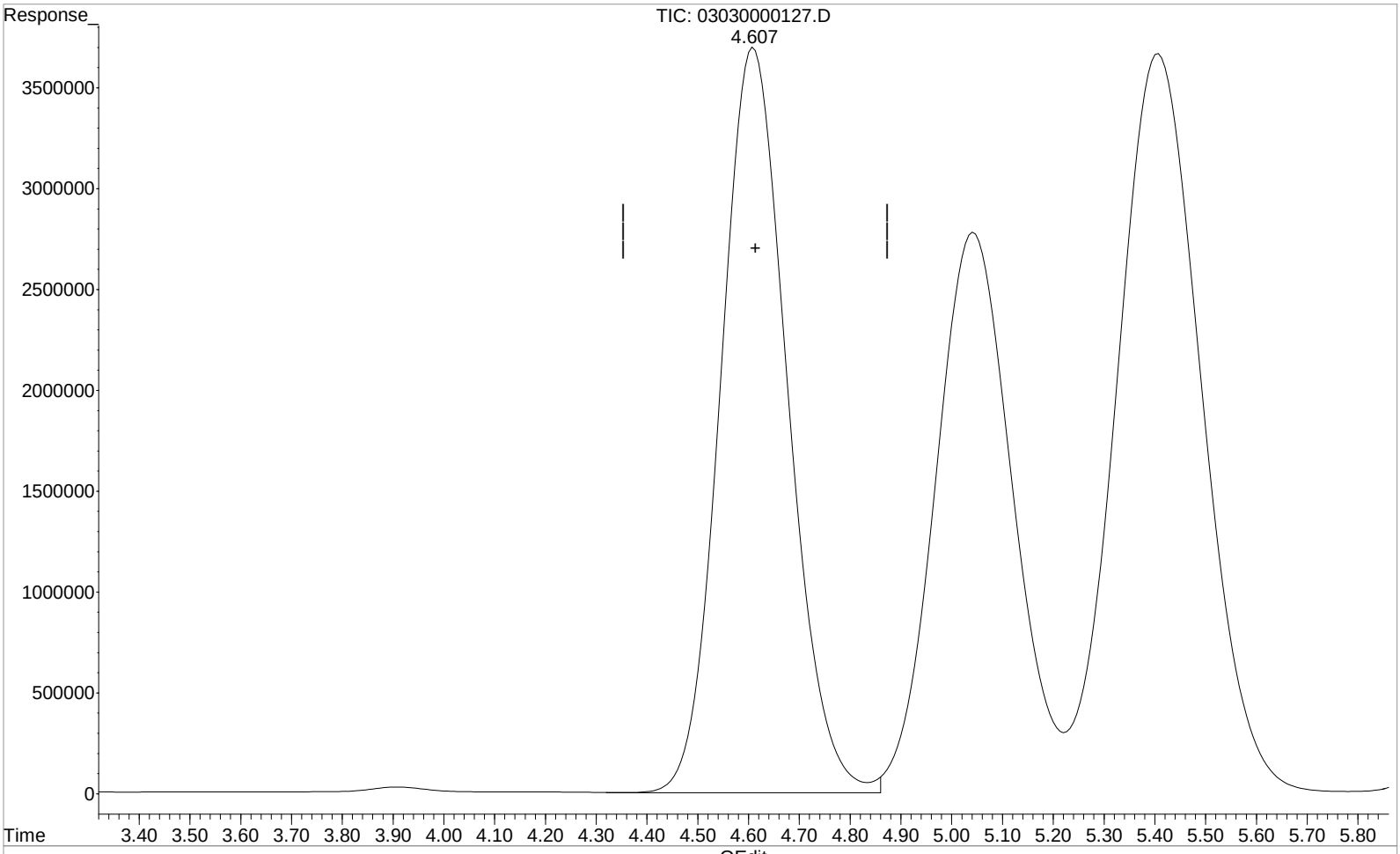
(+) = Expected Retention Time

1st (b) (6) 3/29/17
2nd [redacted] 3/29/17

Data File : J:\LC08\Data\030317_8330_254\03030000127.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 07:27:27 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 16:29:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.607min 914.757 ug/L

response 34032131

Manual Integration:

Before

03/29/17

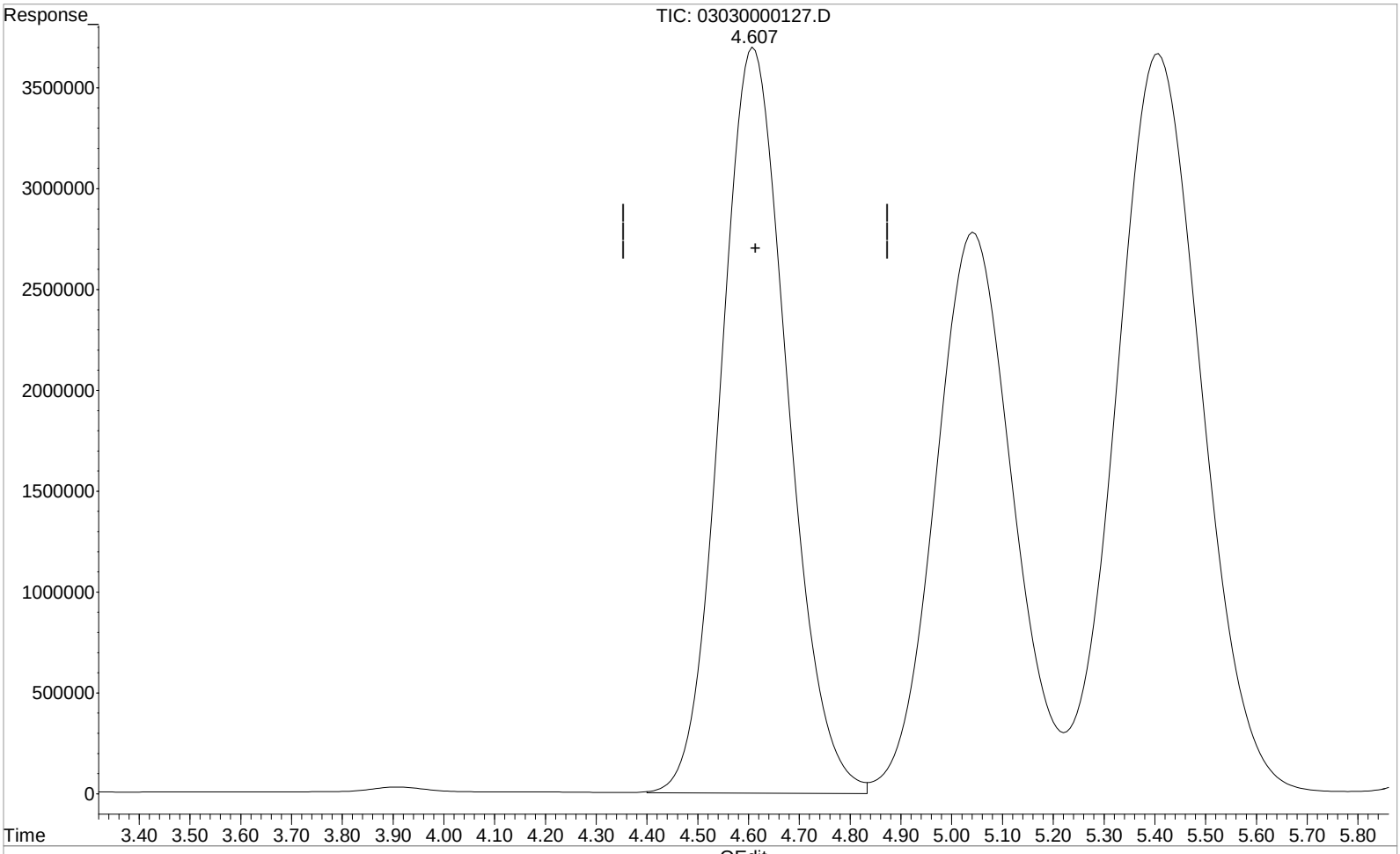
(+) = Expected Retention Time

(b)
(6)
1st 03/29/17
2nd 03/29/17

Data File : J:\LC08\Data\030317_8330_254\03030000127.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 07:27:27 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 16:29:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.607min 912.889 ug/L m

response 33962645

Manual Integration:

After

BLC

03/29/17

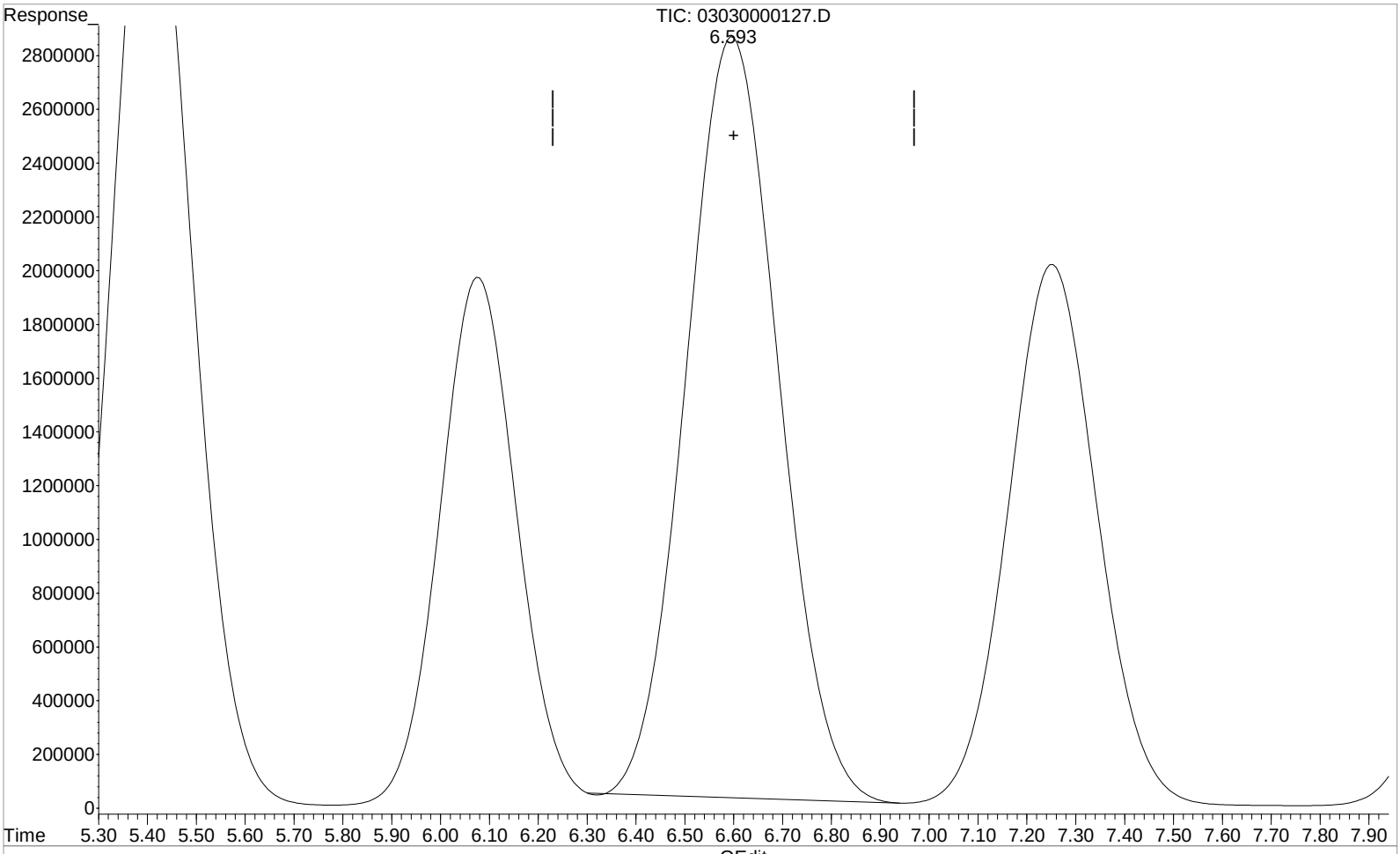
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\030317_8330_254\03030000127.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 07:27:27 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 16:29:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.593min 882.780 ug/L

response 37243118

Manual Integration:

Before

03/29/17

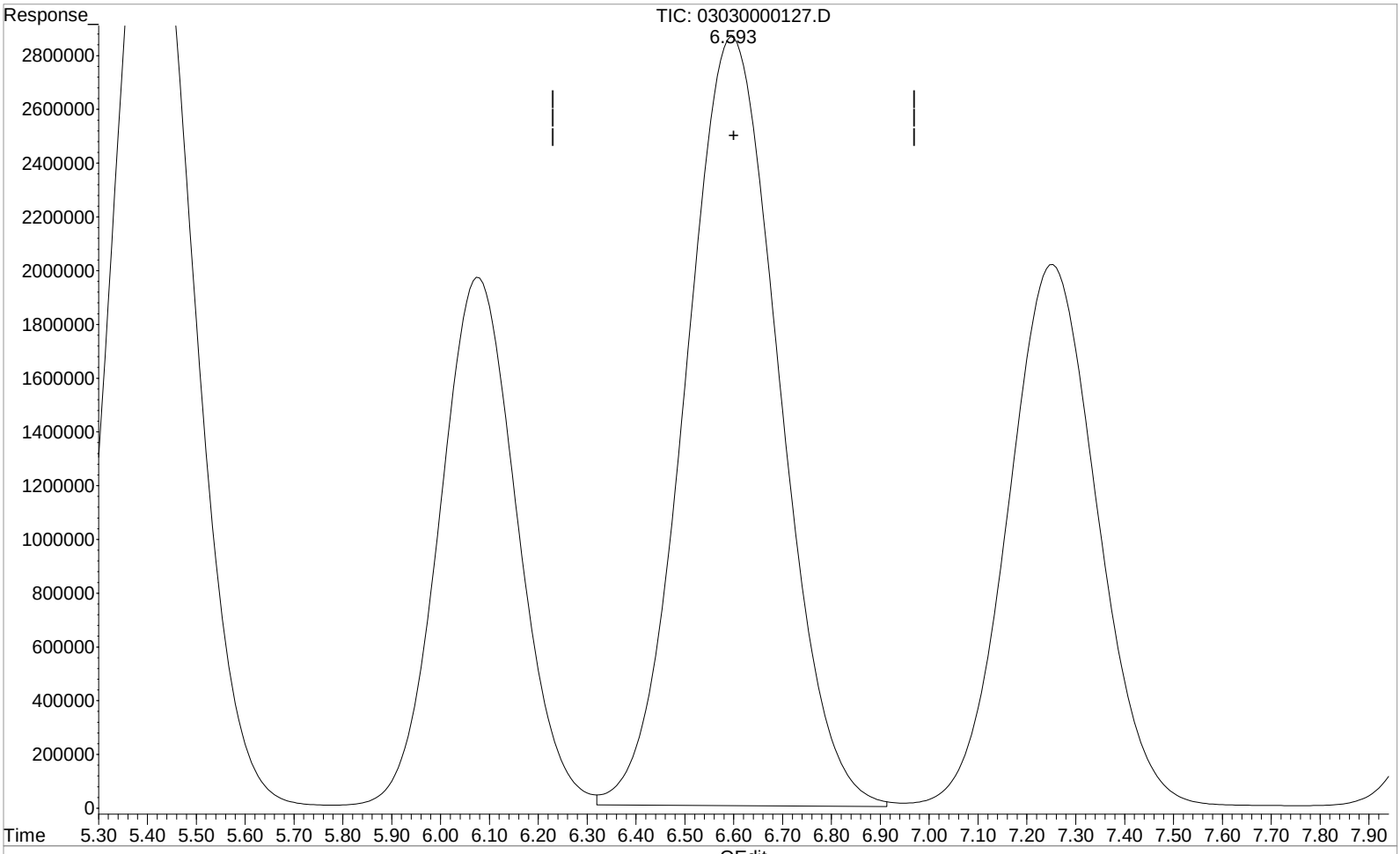
(+) = Expected Retention Time

1st (b) (6) 03/29/17
2nd [redacted] 03/29/17

Data File : J:\LC08\Data\030317_8330_254\03030000127.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 07:27:27 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 16:29:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(7) 2-Amino-4,6-DNT (T)

6.593min 907.284 ug/L m

response 38276902

Manual Integration:

After

BLC

03/29/17

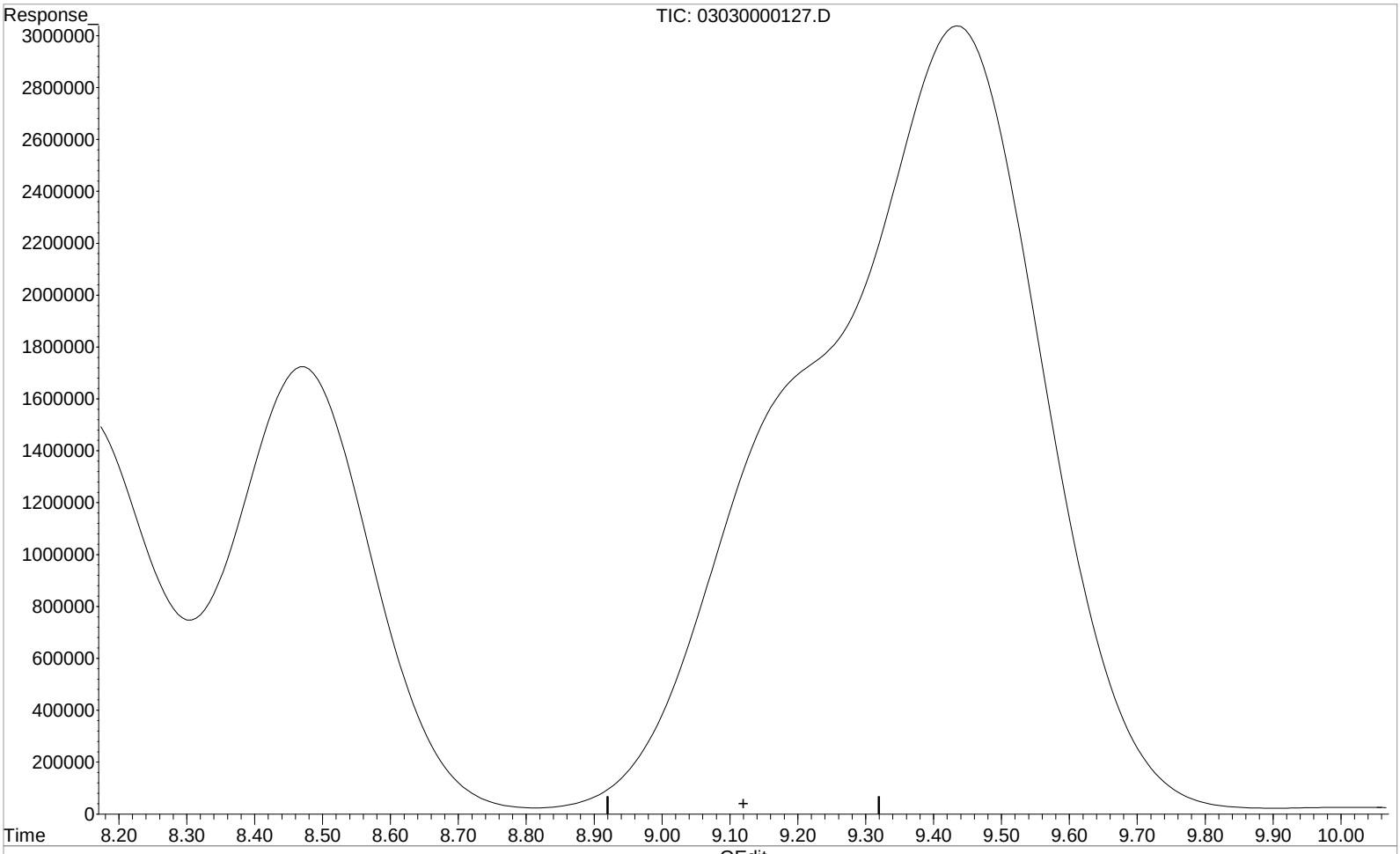
(+) = Expected Retention Time

(b) (6)
1st 3/29/17
2nd 3/29/17

Data File : J:\LC08\Data\030317_8330_254\03030000127.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 07:27:27 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 16:29:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(9) 1,3-DNB (T)

9.120min 0.000 ug/L

response 0

Manual Integration:

Before

03/29/17

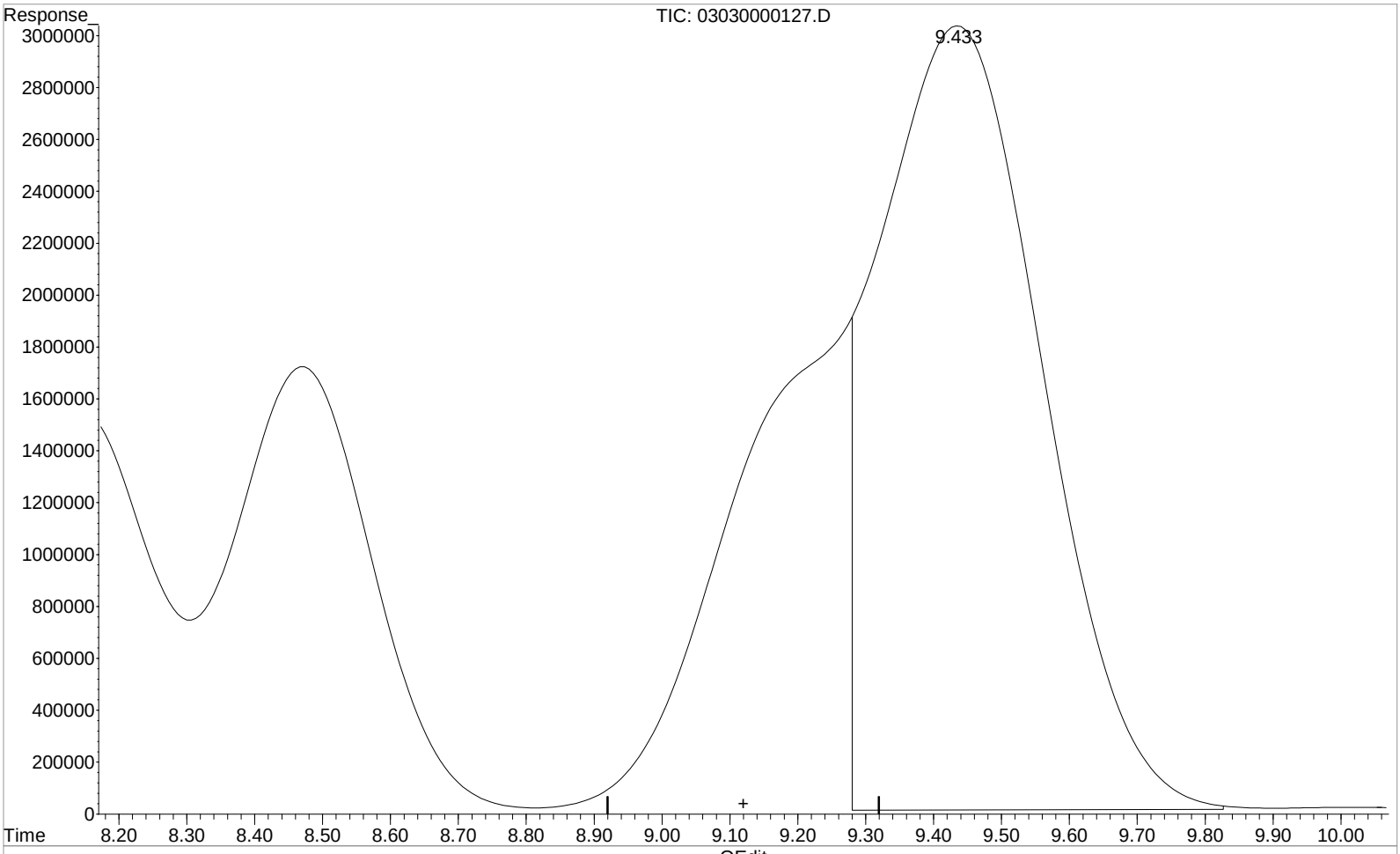
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\030317_8330_254\03030000127.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 07:27:27 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 16:29:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(9) 1,3-DNB (T)

9.433min 889.220 ug/L m

response 49750446

Manual Integration:

After

BLC

03/29/17

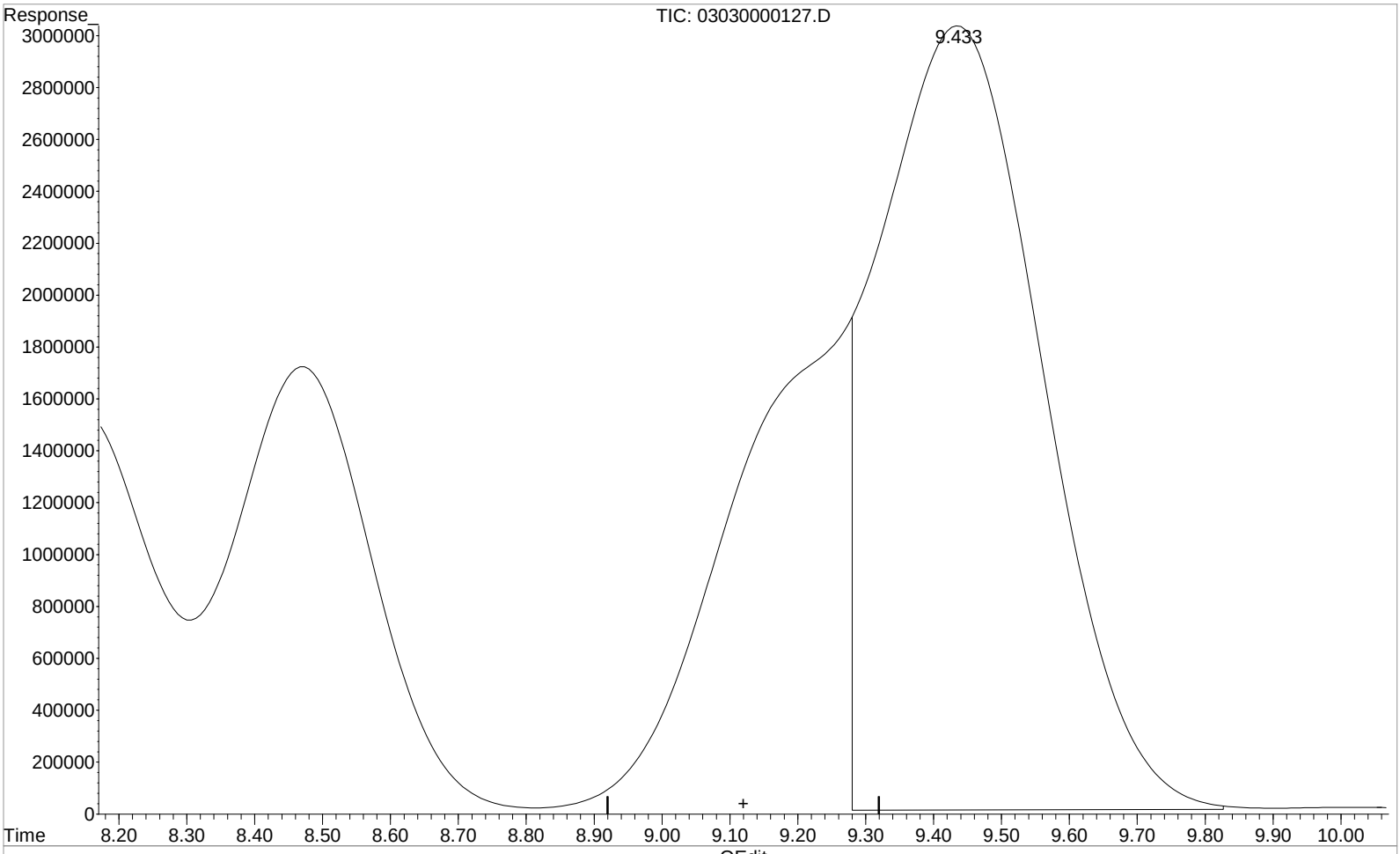
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\030317_8330_254\03030000127.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 07:27:27 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 16:29:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(9) 1,3-DNB (T)

9.433min 889.220 ug/L m

response 49750446

Manual Integration:

After

WP

03/29/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC08\DATA\030317_8330_210\03030000121.
Lab ID: KWG1702121-1
RunType: CCV
Matrix: SOIL

Date Acquired: 03/04/2017 03:46
Date Quantitated: 03/17/2017 09:06
Batch ID: KWG1702121
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC08\DATA\030317_8330_210\03030000121.D			**Instrument:**	LC08
Acqu Date:	03/04/2017 03:46	**Quant Date:**	03/17/2017 09:06	**Vial:**	3
Run Type:	CCV	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1702121-1			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B NITRARO/A	**Collect Date:**		**Receive Date:**	03/16/2017

Analysis Lot:	KWG1702121	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC08\METHOD\020917_SHORT	**Calibration ID:**	CAL15185
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	8.47		72413568	1,041		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	3.91		20387893**m**	975.51			
Pentaerythritol Tetranitrate	7.27		82609069	1,008			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC08\DATA\030317_8330_210\03030000121.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 04-Mar-2017, 03:46:07 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 17 09:06:49 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Mar 17 09:04:05 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	8.473	72413568	1040.972	ug/L	
Target Compounds						
1) T	Nitroglycerin	3.913	20387893	975.506	ug/L	m
2) T	PETN	7.273	82609069	1008.061	ug/L	

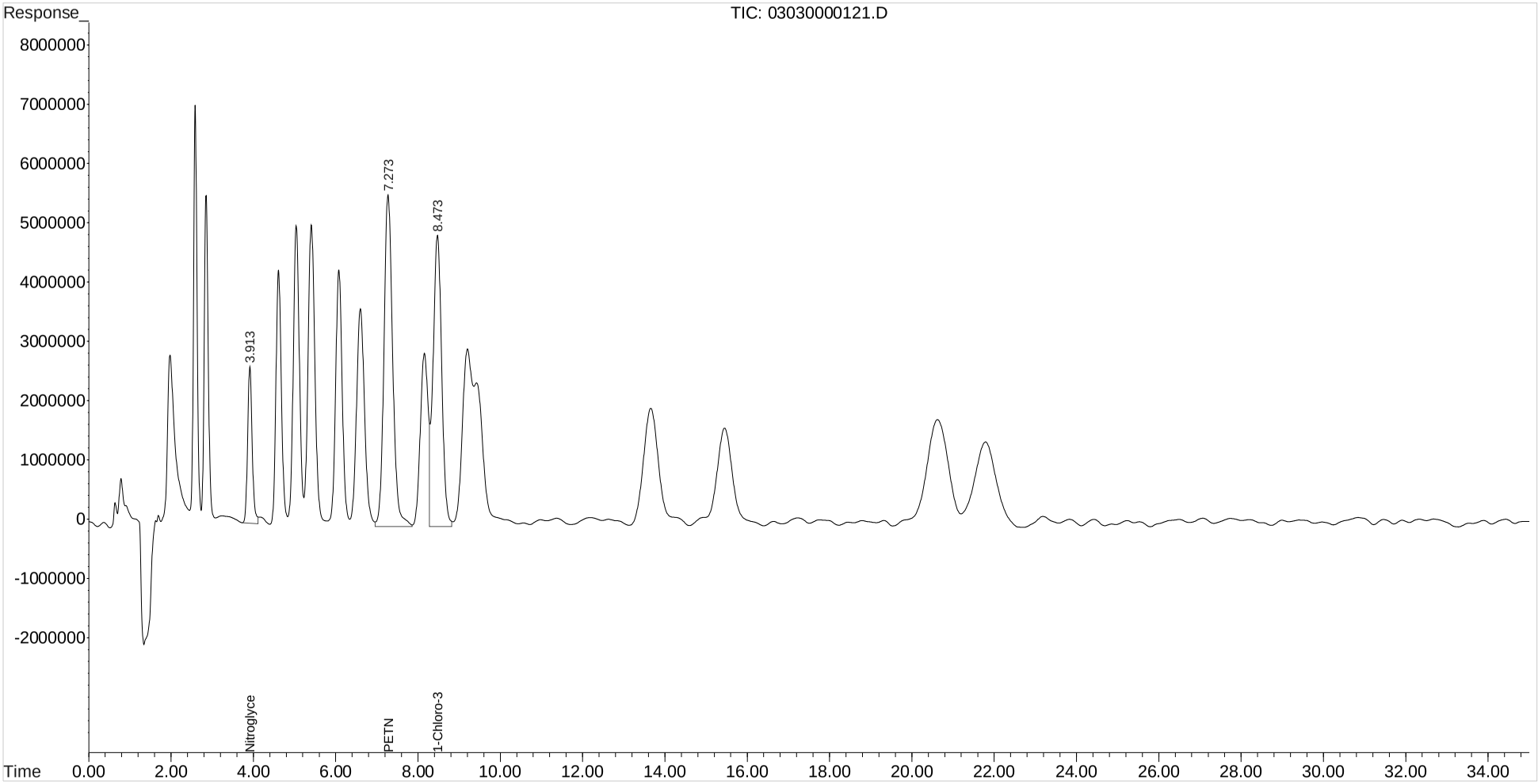
(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] (b) (6) 3/17/17 3/29/17

Data File : J:\LC08\DATA\030317_8330_210\03030000121.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 04-Mar-2017, 03:46:07 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 17 09:06:49 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Mar 17 09:04:05 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



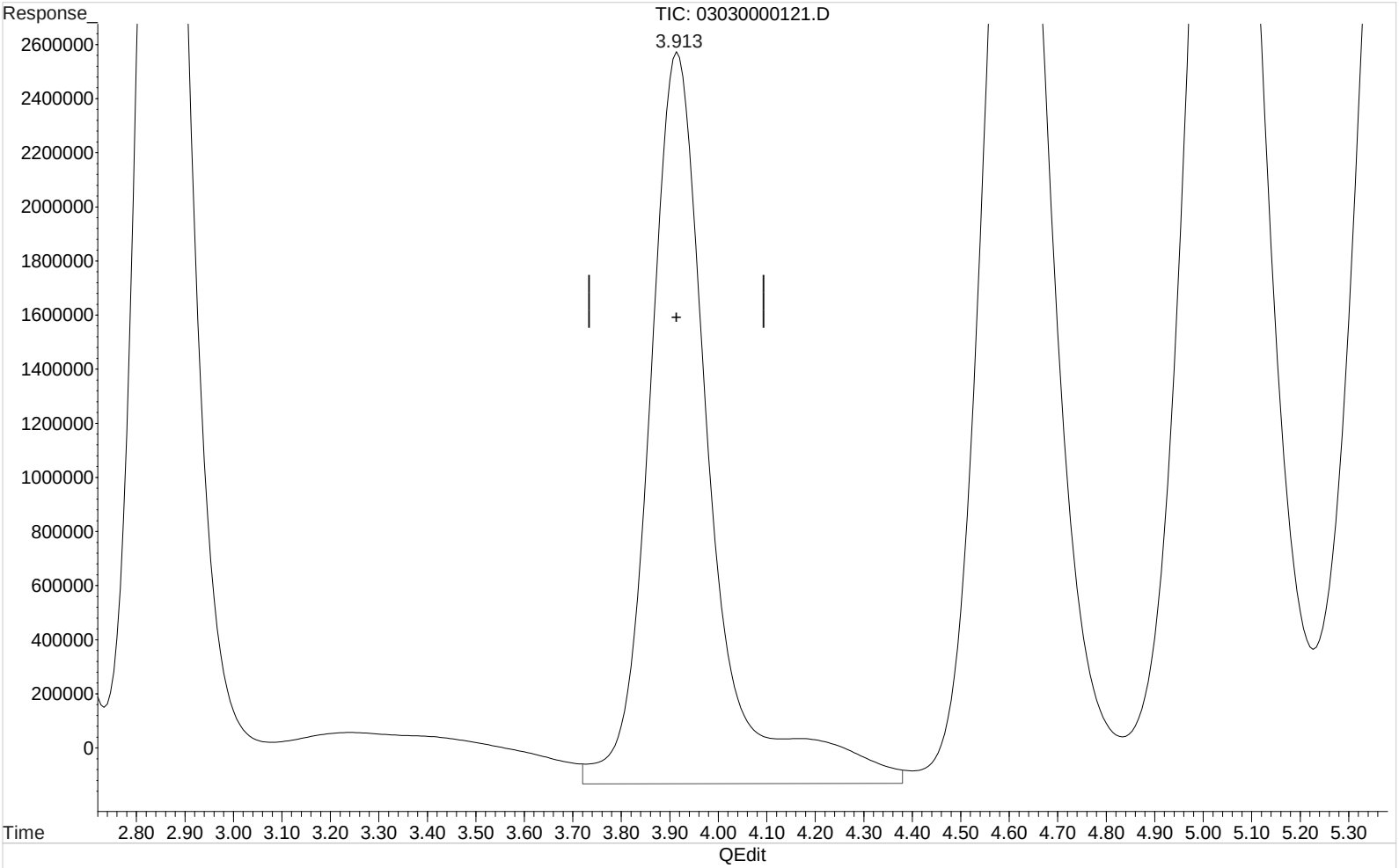
11/01/2018
Page 1009 of 4534
012643

Quantitation Report (Qedit)

Data File : J:\LC08\DATA\030317_8330_210\03030000121.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 04-Mar-2017, 03:46:07 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 17 09:04:27 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Mar 17 09:04:05 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.913min 1141.016 ug/L

response 23847002

Manual Integration:

Before

03/17/17

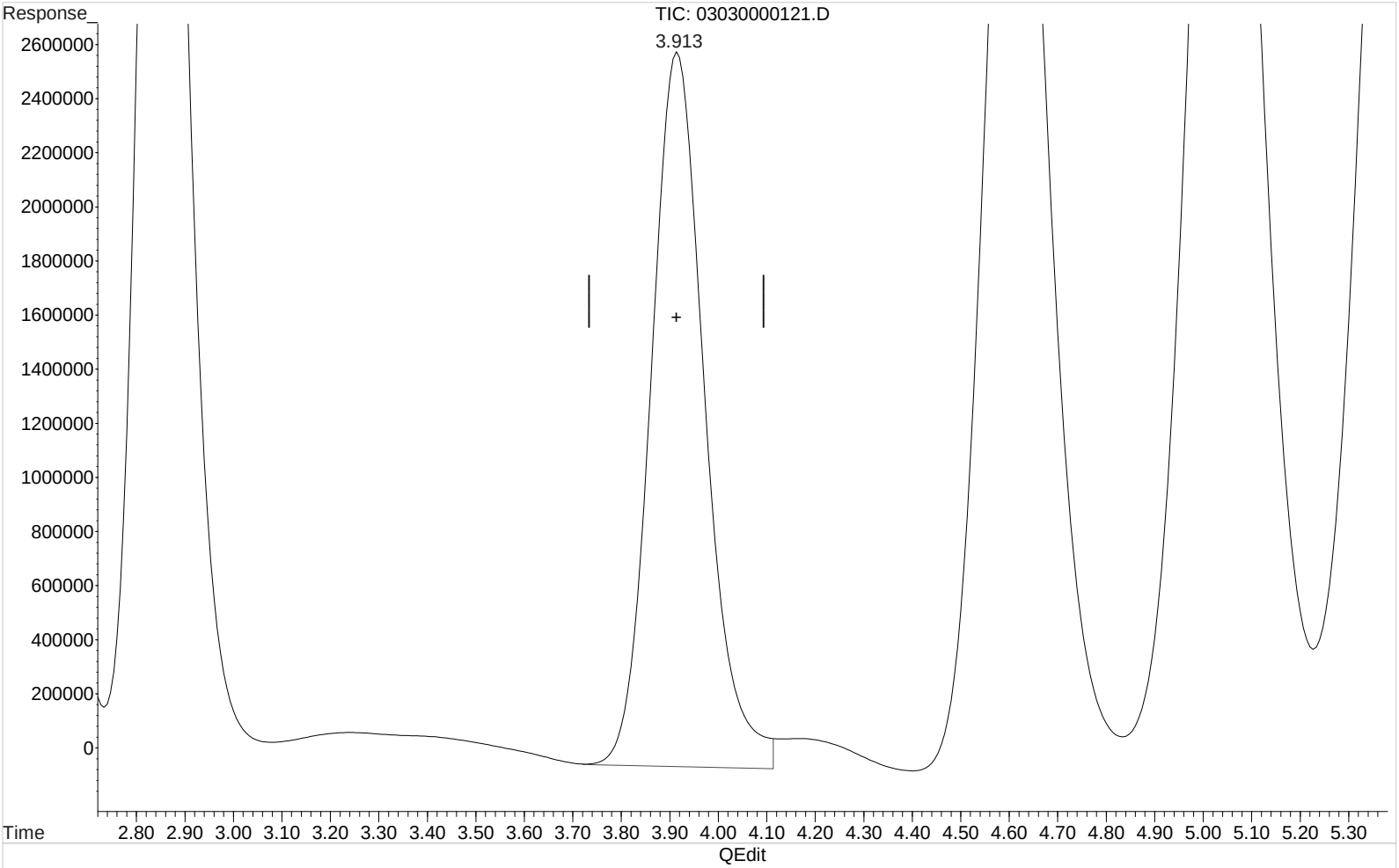
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\DATA\030317_8330_210\03030000121.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 04-Mar-2017, 03:46:07 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 17 09:04:27 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Mar 17 09:04:05 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.913min 975.506 ug/L m

response 20387893

Manual Integration:

After

BLC

03/17/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC08\DATA\030317_8330_210\03030000127.
Lab ID: KWG1702121-2
RunType: CCV
Matrix: SOIL

Date Acquired: 03/04/2017 07:27
Date Quantitated: 03/17/2017 09:08
Batch ID: KWG1702121
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC08\DATA\030317_8330_210\03030000127.D			**Instrument:**	LC08
Acqu Date:	03/04/2017 07:27	**Quant Date:**	03/17/2017 09:08	**Vial:**	4
Run Type:	CCV	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1702121-2			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B NITRARO/A	**Collect Date:**		**Receive Date:**	03/16/2017

Analysis Lot:	KWG1702121	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC08\METHOD\020917_SHORT	**Calibration ID:**	CAL15185
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	8.47		66444022	955.16		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	3.91		20487348**m**	980.27			
Pentaerythritol Tetranitrate	7.27		75750090	924.36			

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC08\DATA\030317_8330_210\03030000127.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 04-Mar-2017, 07:27:27 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 17 09:08:51 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Mar 17 09:04:05 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	8.467	66444022	955.158 ug/L
Target Compounds				
1) T	Nitroglycerin	3.907	20487348	980.265 ug/L m
2) T	PETN	7.267	75750090	924.362 ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

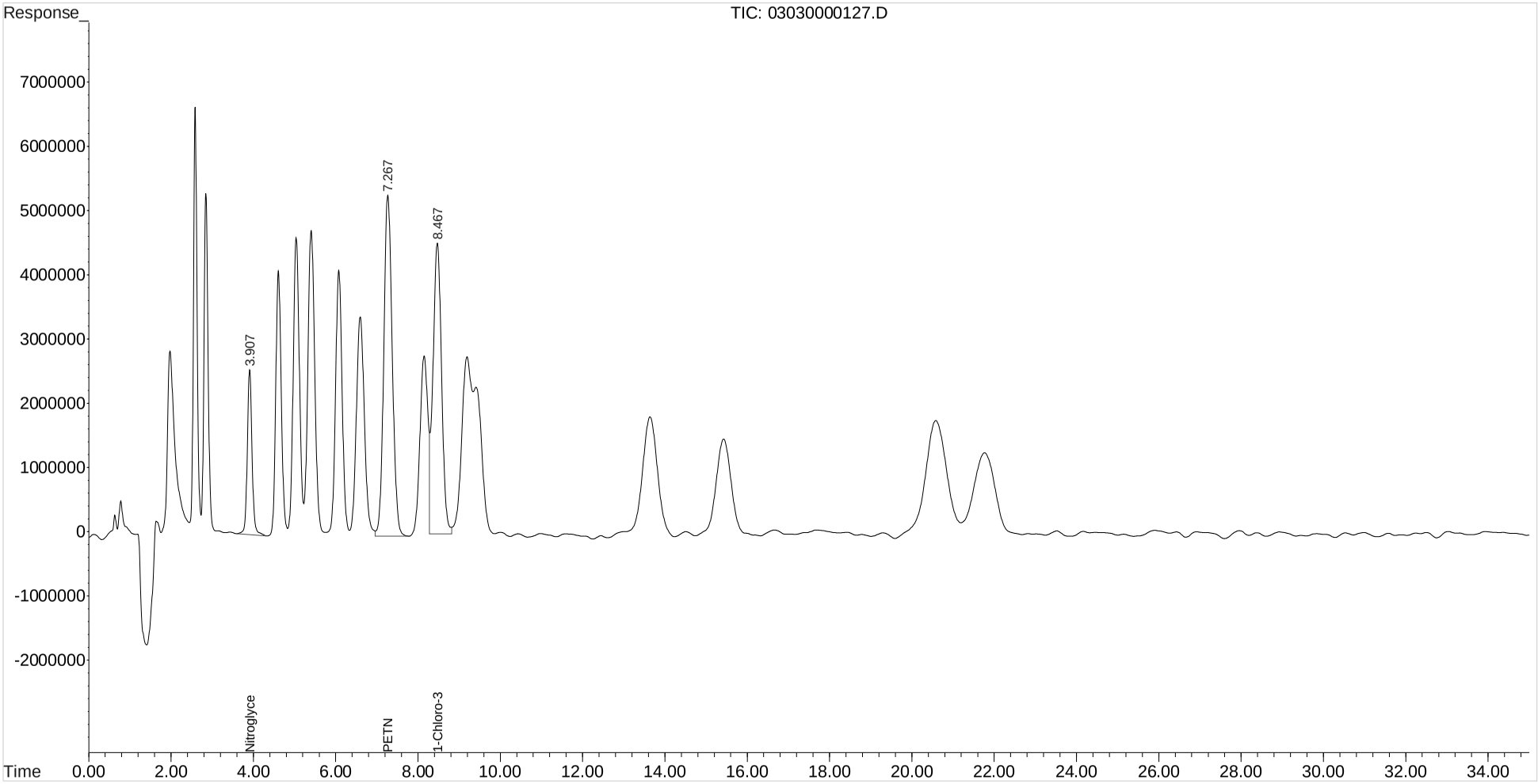
[redacted] 3/17/17
(9) (g) 3/29/17

Quantitation Report (QT Reviewed)

Data File : J:\LC08\DATA\030317_8330_210\03030000127.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 04-Mar-2017, 07:27:27 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 17 09:08:51 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Mar 17 09:04:05 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



11/01/2018

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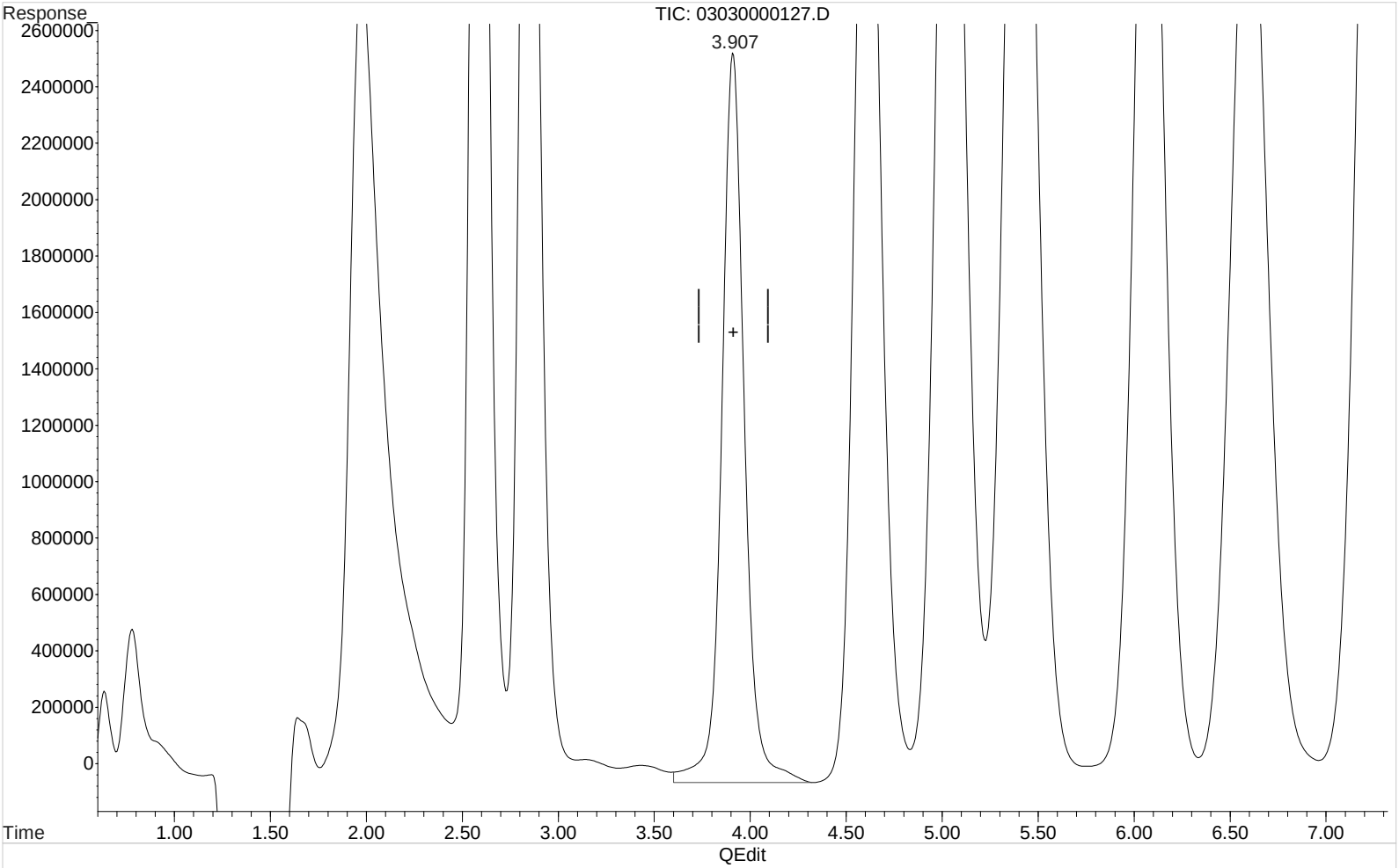
012649

Quantitation Report (Qedit)

Data File : J:\LC08\DATA\030317_8330_210\03030000127.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 04-Mar-2017, 07:27:27 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 17 09:04:33 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Mar 17 09:04:05 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.907min 1018.011 ug/L

response 21276234

Manual Integration:

Before

03/17/17

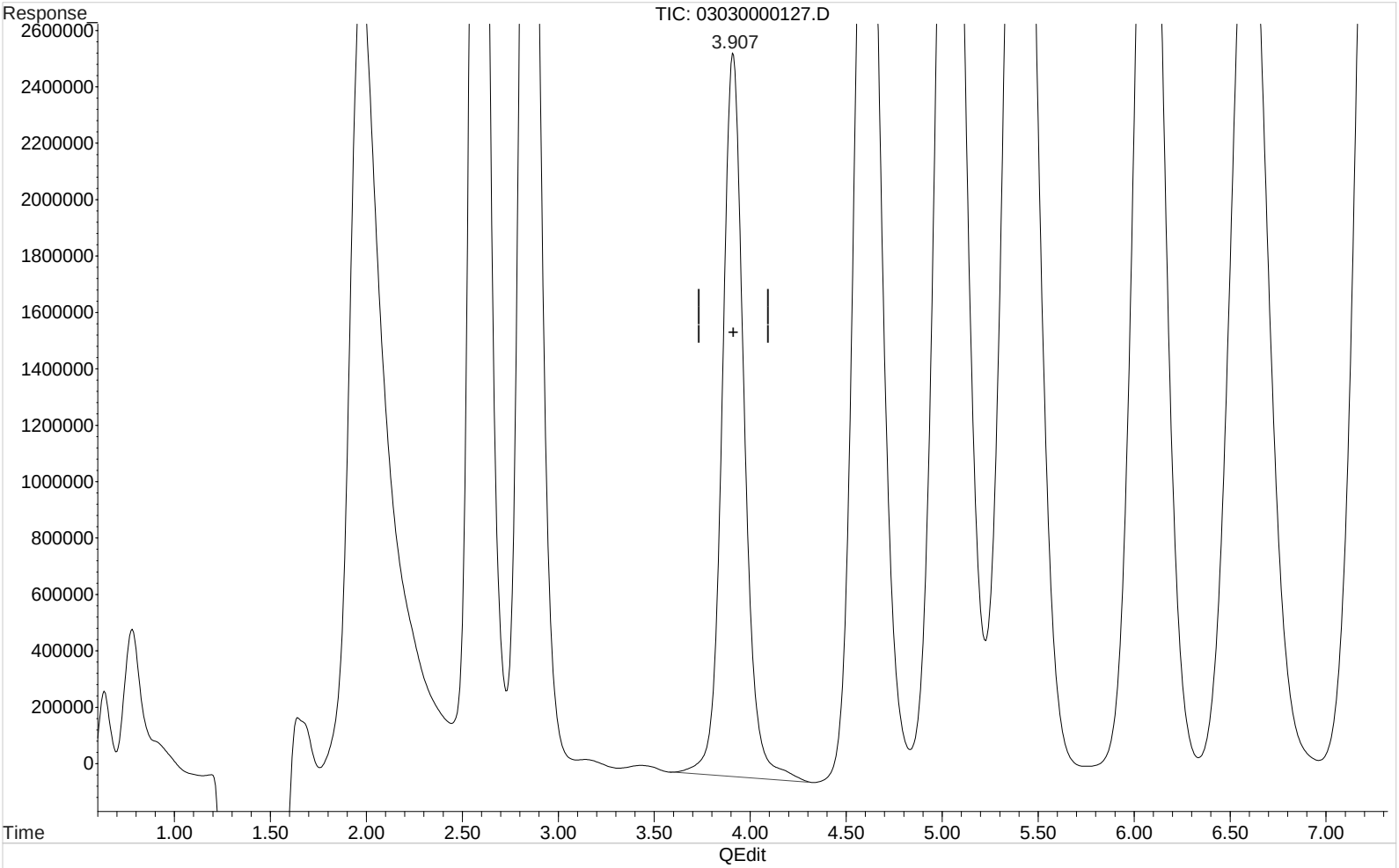
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\DATA\030317_8330_210\03030000127.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 04-Mar-2017, 07:27:27 Operator: BR
Sample : 17-OLC-01-15H 1 PPM Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 17 09:04:33 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Mar 17 09:04:05 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.907min 980.265 ug/L m

response 20487348

Manual Integration:

After

BLC

03/17/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\021517-210\0215000103.D
Lab ID: KWG1701307-1
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 02/15/2017 17:54
Date Quantitated: 02/16/2017 13:16
Batch ID: KWG1701307
Analysis Method: 8330B
MethodJoinID: MJ1278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\021517-210\0215000103.D			**Instrument:**	LC10
Acqu Date:	02/15/2017 17:54	**Quant Date:**	02/16/2017 13:16	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1278	**Dilution:**	1.0
Lab ID:	KWG1701307-1			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701307	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1278
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			23-98	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\021517-210\0215000103.D			**Instrument:**	LC10
Acqu Date:	02/15/2017 17:54	**Quant Date:**	02/16/2017 13:16	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701307-1			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701307	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-210\0215000103.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 17:54:57 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 13:16:20 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Mon Dec 12 12:45:13 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
Target Compounds						
1) T	Nitroglycerin	0.000	0	N.D.	ug/L	d
2) T	PETN	0.000	0	N.D.	ug/L	d

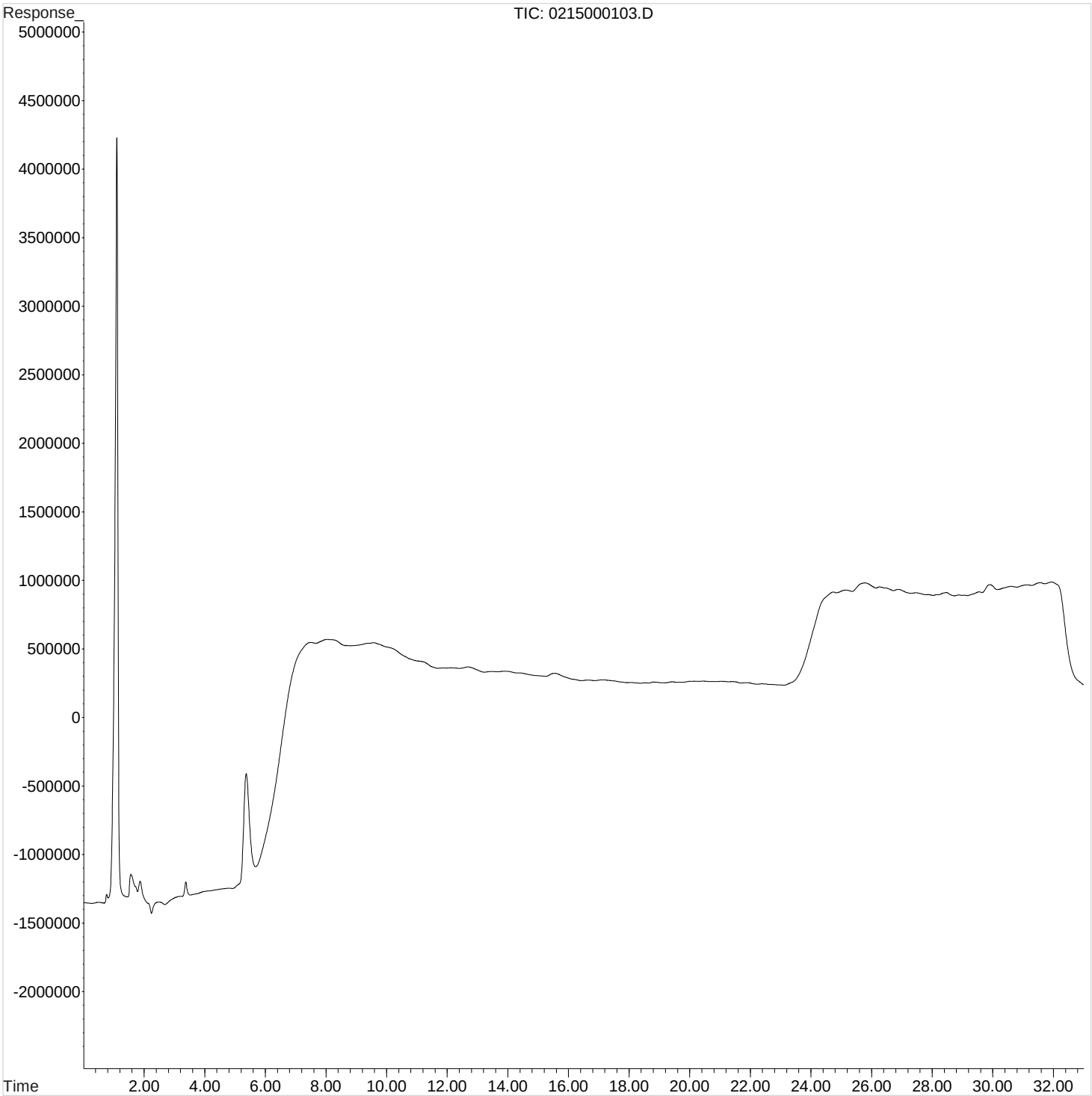
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-210\0215000103.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 17:54:57 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 13:16:20 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Mon Dec 12 12:45:13 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Exception Report

Data File: J:\LC10\DATA\021517-210\0215000103.D
Lab ID: KWG1701307-1
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 02/15/2017 17:54
Date Quantitated: 02/16/2017 13:16
Batch ID: KWG1701307
Analysis Method: 8330B
MethodJoinID: MJ1278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\021517-210\0215000103.D			**Instrument:**	LC10
Acqu Date:	02/15/2017 17:54	**Quant Date:**	02/16/2017 13:16	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1278	**Dilution:**	1.0
Lab ID:	KWG1701307-1			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701307	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1278
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			23-98	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\021517-210\0215000103.D			**Instrument:**	LC10
Acqu Date:	02/15/2017 17:54	**Quant Date:**	02/16/2017 13:16	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701307-1			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701307	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-210\0215000103.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 17:54:57 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 13:16:20 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Mon Dec 12 12:45:13 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
Target Compounds						
1) T	Nitroglycerin	0.000	0	N.D.	ug/L	d
2) T	PETN	0.000	0	N.D.	ug/L	d

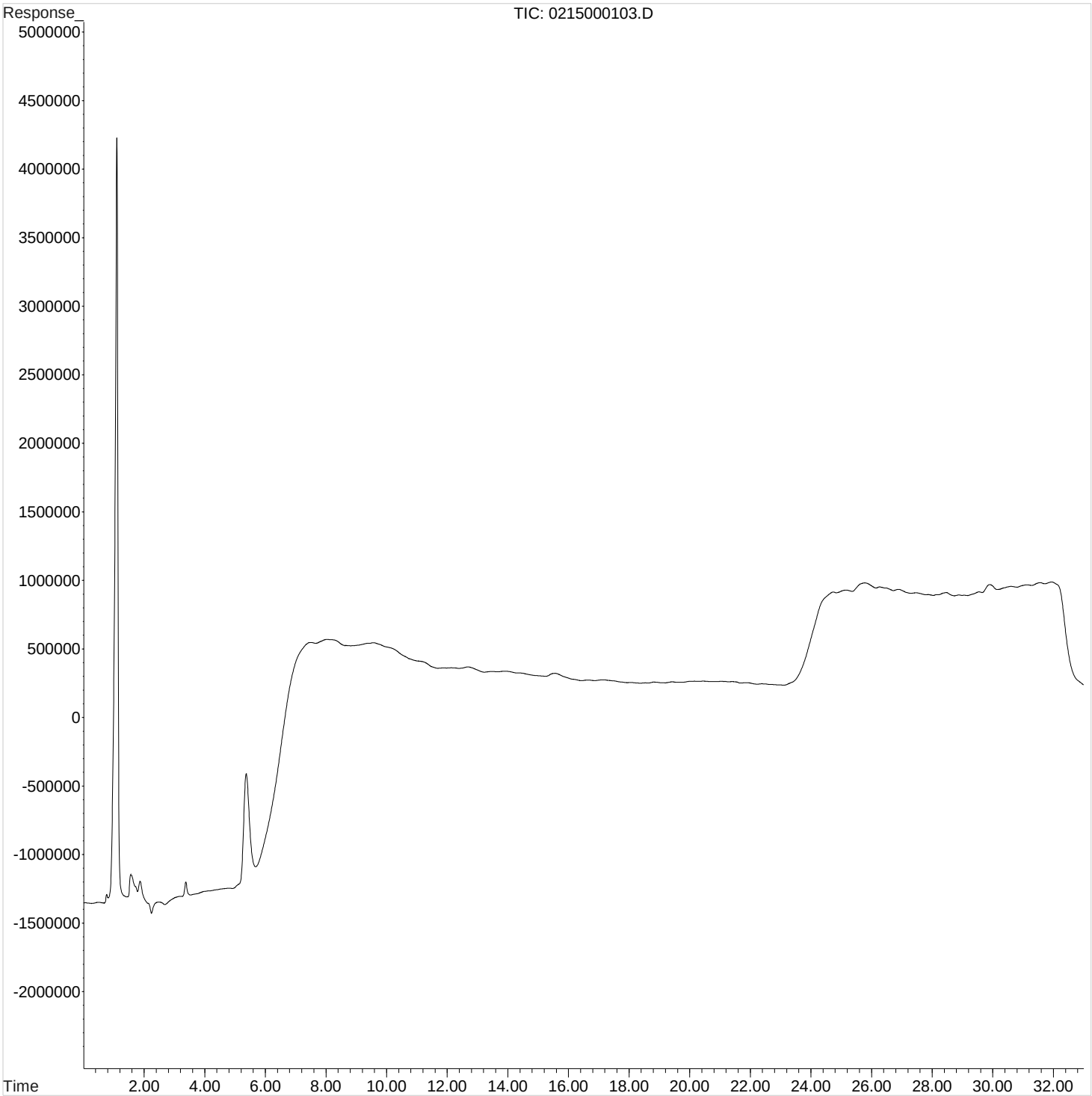
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-210\0215000103.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 17:54:57 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 13:16:20 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Mon Dec 12 12:45:13 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Exception Report

Data File: J:\LC10\DATA\021517-210\0215000103.D
Lab ID: KWG1701307-1
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 02/15/2017 17:54
Date Quantitated: 02/16/2017 13:16
Batch ID: KWG1701307
Analysis Method: 8330B
MethodJoinID: MJ1278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\021517-210\0215000103.D			**Instrument:**	LC10
Acqu Date:	02/15/2017 17:54	**Quant Date:**	02/16/2017 13:16	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1278	**Dilution:**	1.0
Lab ID:	KWG1701307-1			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701307	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1278
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			23-98	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\021517-210\0215000103.D			**Instrument:**	LC10
Acqu Date:	02/15/2017 17:54	**Quant Date:**	02/16/2017 13:16	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701307-1			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701307	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-210\0215000103.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 17:54:57 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 13:16:20 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Mon Dec 12 12:45:13 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
Target Compounds						
1) T	Nitroglycerin	0.000	0	N.D.	ug/L	d
2) T	PETN	0.000	0	N.D.	ug/L	d

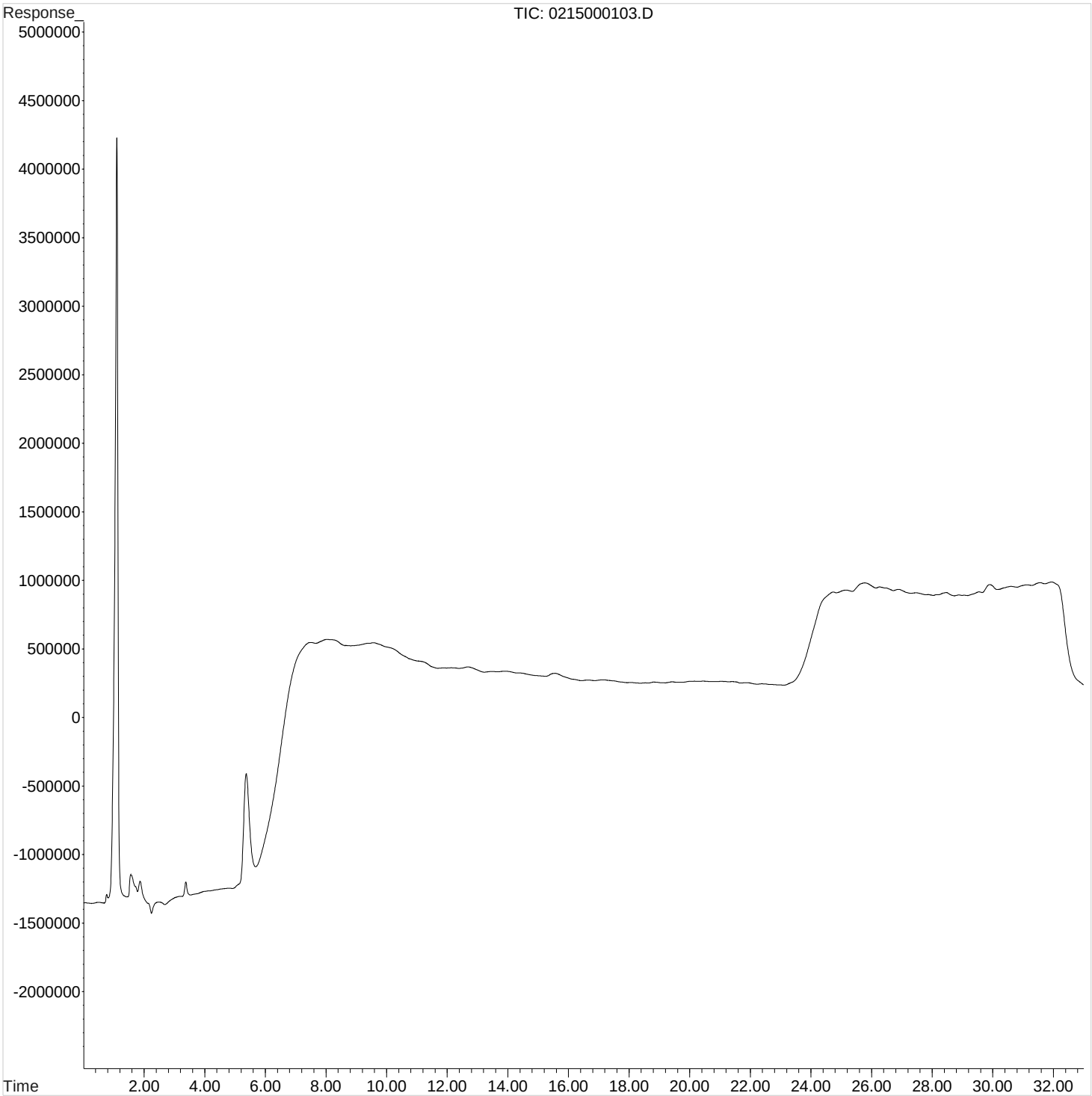
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-210\0215000103.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 17:54:57 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 13:16:20 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Mon Dec 12 12:45:13 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Exception Report

Data File: J:\LC10\DATA\021517-210\0215000103.D
Lab ID: KWG1701307-1
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 02/15/2017 17:54
Date Quantitated: 02/16/2017 13:16
Batch ID: KWG1701307
Analysis Method: 8330B
MethodJoinID: MJ1278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\021517-210\0215000103.D			**Instrument:**	LC10
Acqu Date:	02/15/2017 17:54	**Quant Date:**	02/16/2017 13:16	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1278	**Dilution:**	1.0
Lab ID:	KWG1701307-1			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701307	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1278
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			23-98	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\021517-210\0215000103.D			**Instrument:**	LC10
Acqu Date:	02/15/2017 17:54	**Quant Date:**	02/16/2017 13:16	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701307-1			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701307	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-210\0215000103.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 17:54:57 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 13:16:20 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Mon Dec 12 12:45:13 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
Target Compounds						
1) T	Nitroglycerin	0.000	0	N.D.	ug/L	d
2) T	PETN	0.000	0	N.D.	ug/L	d

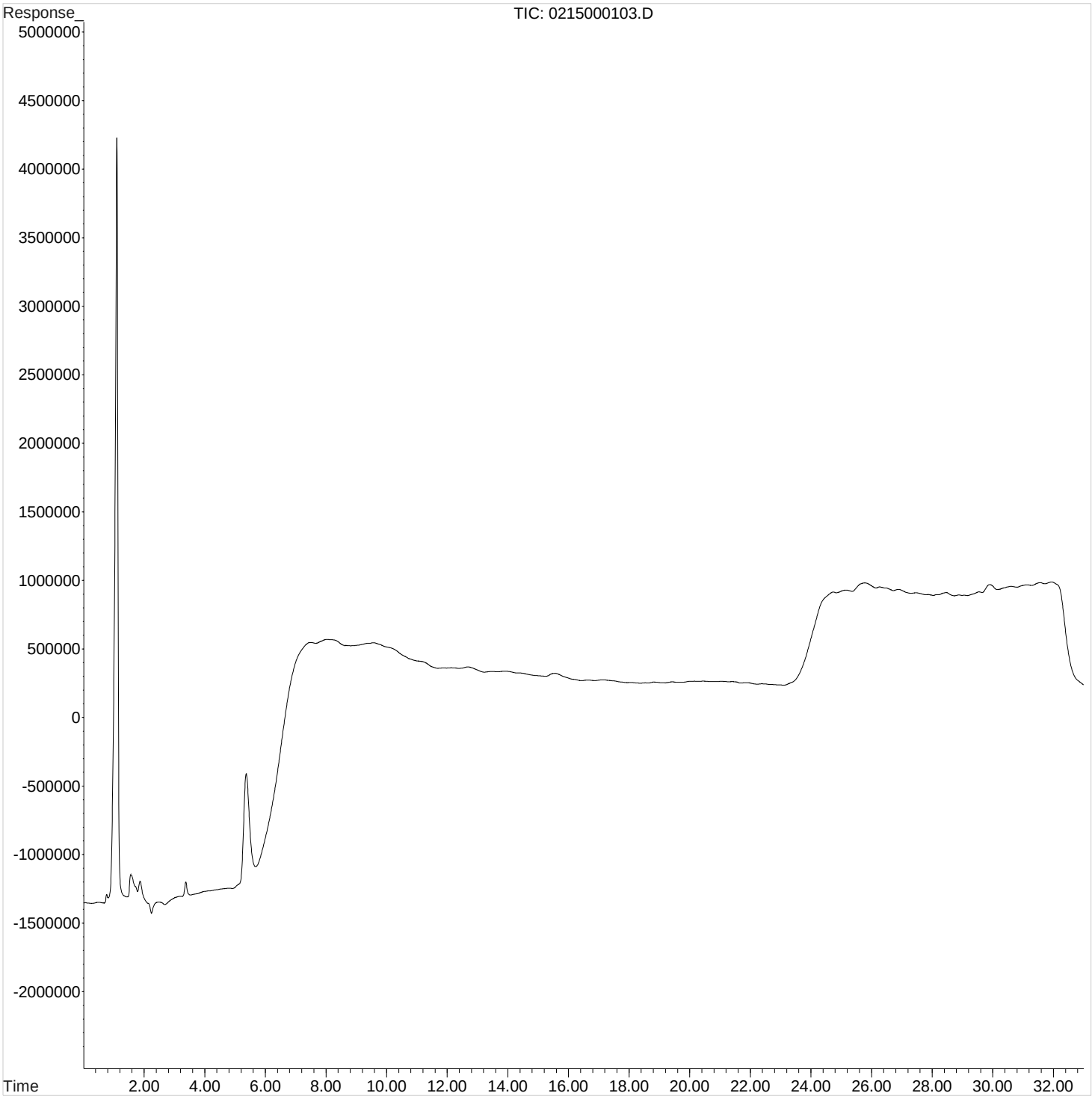
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-210\0215000103.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 17:54:57 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 13:16:20 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Mon Dec 12 12:45:13 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Exception Report

Data File: J:\LC10\DATA\021517-210\0215000103.D
Lab ID: KWG1701307-1
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 02/15/2017 17:54
Date Quantitated: 02/16/2017 13:16
Batch ID: KWG1701307
Analysis Method: 8330B
MethodJoinID: MJ1278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\021517-210\0215000103.D			**Instrument:**	LC10
Acqu Date:	02/15/2017 17:54	**Quant Date:**	02/16/2017 13:16	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1278	**Dilution:**	1.0
Lab ID:	KWG1701307-1			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701307	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1278
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			23-98	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\021517-210\0215000103.D			**Instrument:**	LC10
Acqu Date:	02/15/2017 17:54	**Quant Date:**	02/16/2017 13:16	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701307-1			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701307	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-210\0215000103.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 17:54:57 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 13:16:20 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Mon Dec 12 12:45:13 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
Target Compounds						
1) T	Nitroglycerin	0.000	0	N.D.	ug/L	d
2) T	PETN	0.000	0	N.D.	ug/L	d

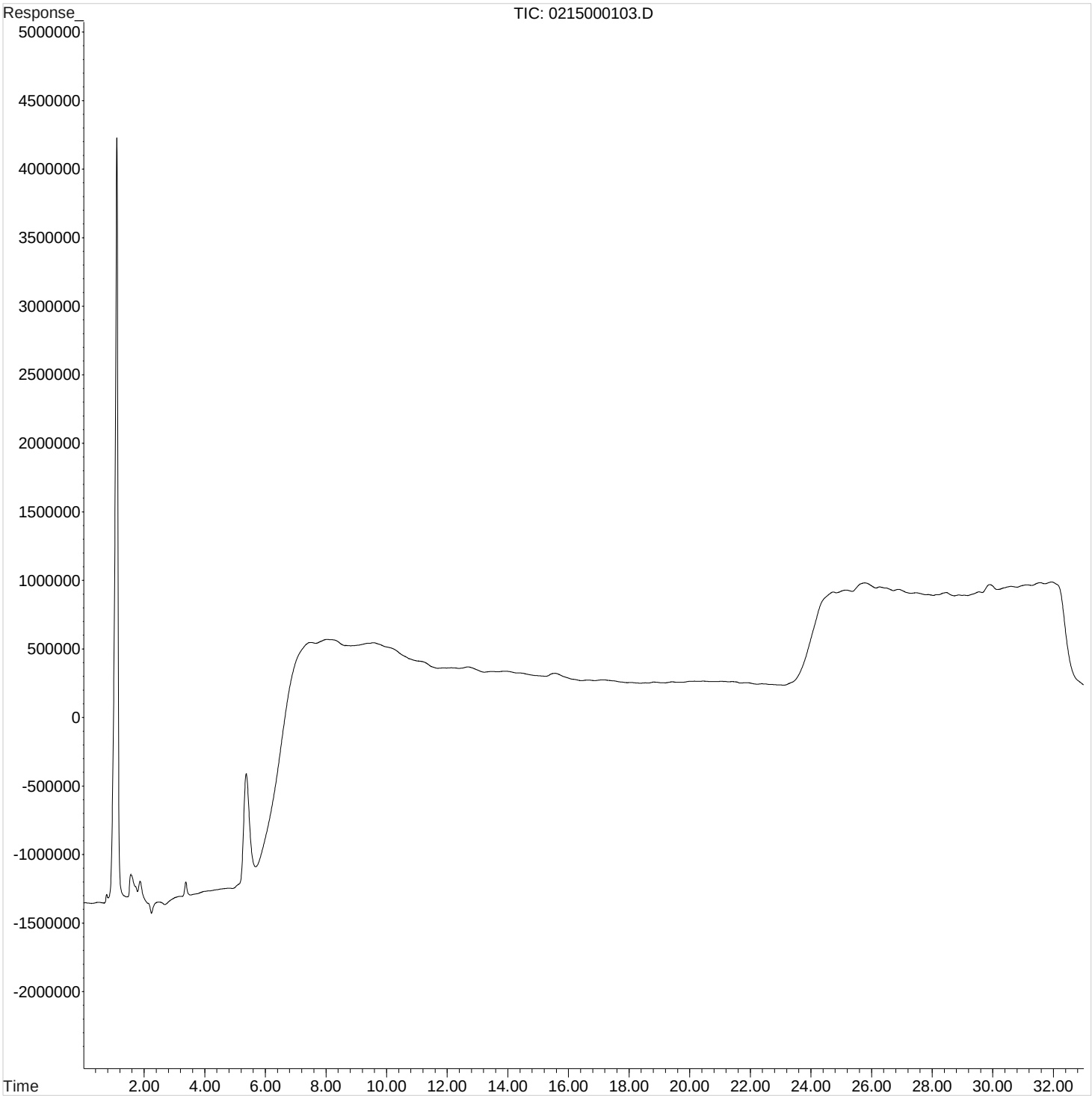
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-210\0215000103.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 15-Feb-2017, 17:54:57 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 13:16:20 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Mon Dec 12 12:45:13 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Exception Report

Data File: J:\LC10\DATA\021517-210\0215000119.D
Lab ID: KWG1701307-3
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 02/16/2017 03:34
Date Quantitated: 02/16/2017 13:22
Batch ID: KWG1701307
Analysis Method: 8330B
MethodJoinID: MJ1278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\021517-210\0215000119.D			**Instrument:**	LC10
Acqu Date:	02/16/2017 03:34	**Quant Date:**	02/16/2017 13:22	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1278	**Dilution:**	1.0
Lab ID:	KWG1701307-3			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701307	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1278
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			23-98	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\021517-210\0215000119.D			**Instrument:**	LC10
Acqu Date:	02/16/2017 03:34	**Quant Date:**	02/16/2017 13:22	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701307-3			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701307	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-210\0215000119.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 16-Feb-2017, 03:34:29 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 13:22:33 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L d
Target Compounds					
1) T	Nitroglycerin	0.000	0	N.D.	ug/L
2) T	PETN	0.000	0	N.D.	ug/L d

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

(b) (6)

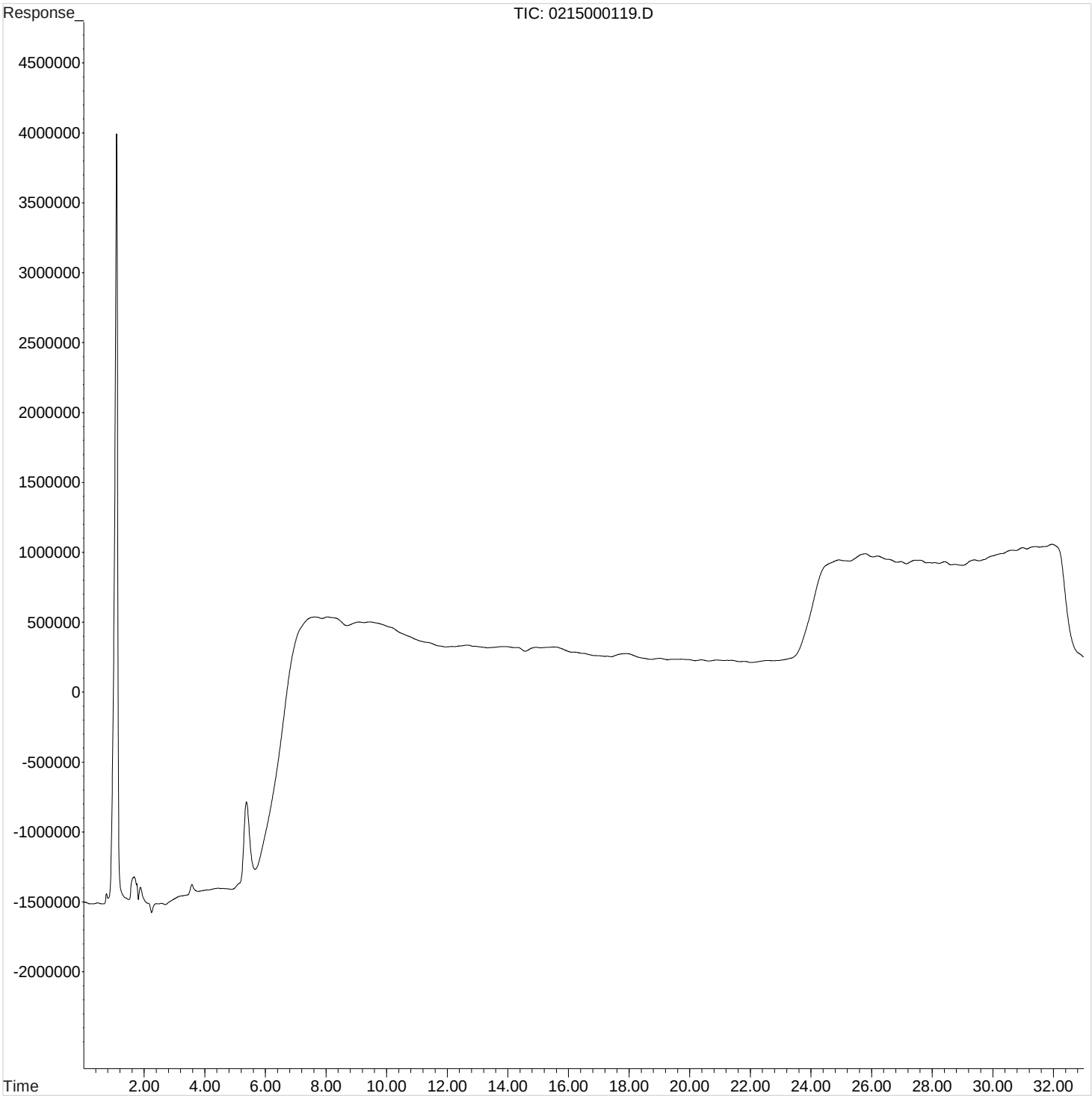
2/17/17

2/27/17

Data File : J:\LC10\Data\021517-210\0215000119.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 16-Feb-2017, 03:34:29 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 13:22:33 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Exception Report

Data File: J:\LC10\DATA\021517-210\0215000119.D
Lab ID: KWG1701307-3
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 02/16/2017 03:34
Date Quantitated: 02/16/2017 13:22
Batch ID: KWG1701307
Analysis Method: 8330B
MethodJoinID: MJ1278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\021517-210\0215000119.D			**Instrument:**	LC10
Acqu Date:	02/16/2017 03:34	**Quant Date:**	02/16/2017 13:22	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1278	**Dilution:**	1.0
Lab ID:	KWG1701307-3			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701307	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1278
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			23-98	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\021517-210\0215000119.D			**Instrument:**	LC10
Acqu Date:	02/16/2017 03:34	**Quant Date:**	02/16/2017 13:22	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701307-3			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701307	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-210\0215000119.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 16-Feb-2017, 03:34:29 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 13:22:33 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L d
Target Compounds					
1) T	Nitroglycerin	0.000	0	N.D.	ug/L
2) T	PETN	0.000	0	N.D.	ug/L d

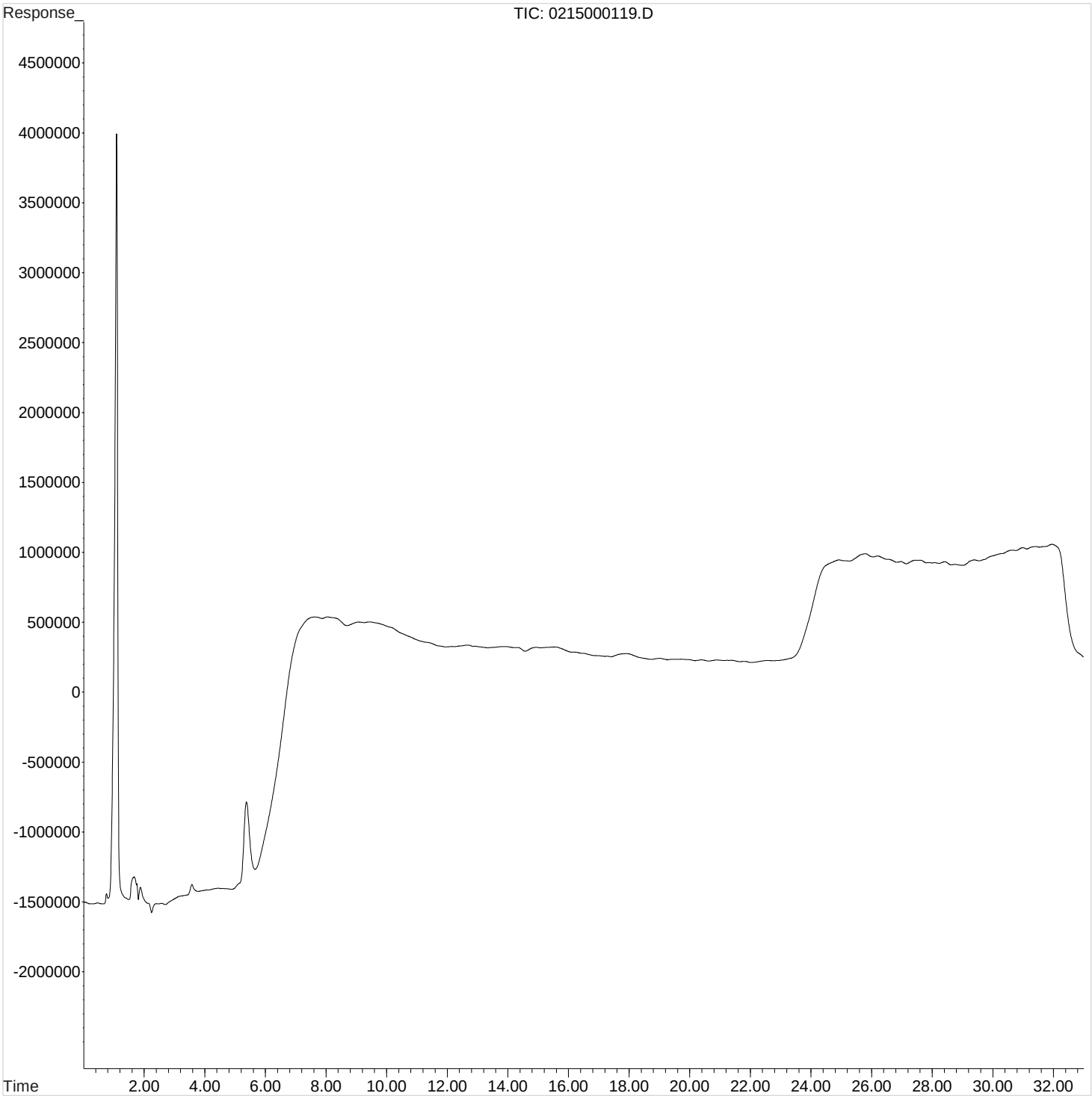
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-210\0215000119.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 16-Feb-2017, 03:34:29 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 13:22:33 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Exception Report

Data File: J:\LC10\DATA\021517-210\0215000119.D
Lab ID: KWG1701307-3
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 02/16/2017 03:34
Date Quantitated: 02/16/2017 13:22
Batch ID: KWG1701307
Analysis Method: 8330B
MethodJoinID: MJ1278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\021517-210\0215000119.D			**Instrument:**	LC10
Acqu Date:	02/16/2017 03:34	**Quant Date:**	02/16/2017 13:22	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1278	**Dilution:**	1.0
Lab ID:	KWG1701307-3			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701307	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1278
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			23-98	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\021517-210\0215000119.D			**Instrument:**	LC10
Acqu Date:	02/16/2017 03:34	**Quant Date:**	02/16/2017 13:22	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701307-3			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701307	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-210\0215000119.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 16-Feb-2017, 03:34:29 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 13:22:33 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L d
Target Compounds					
1) T	Nitroglycerin	0.000	0	N.D.	ug/L
2) T	PETN	0.000	0	N.D.	ug/L d

(f)=RT Delta > 1/2 Window (m)=manual int.

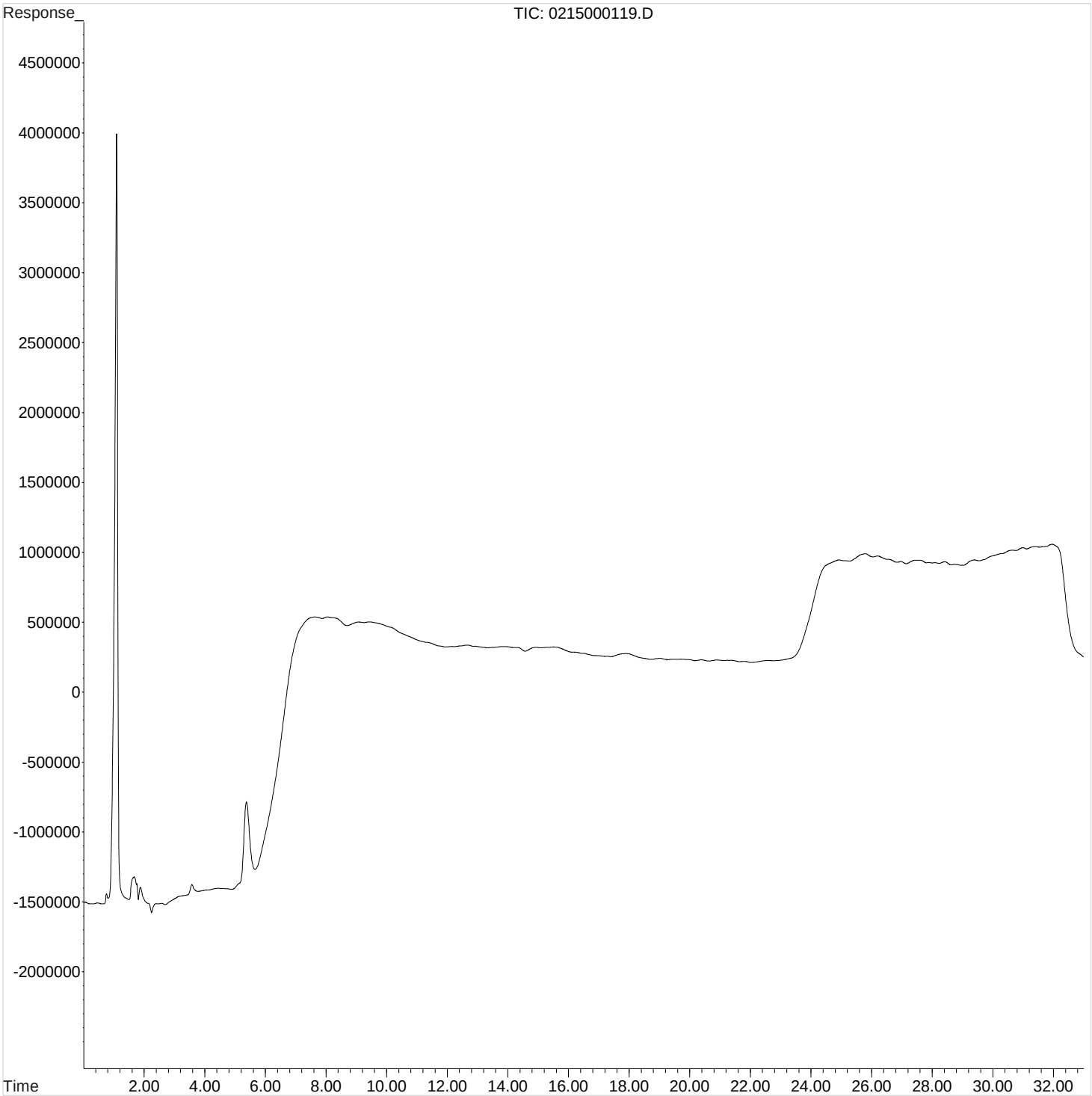
Quantitation Report (QT Reviewed)

[redacted] 02/17/17
02/27/17

Data File : J:\LC10\Data\021517-210\0215000119.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 16-Feb-2017, 03:34:29 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 13:22:33 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Exception Report

Data File: J:\LC10\DATA\021517-210\0215000119.D
Lab ID: KWG1701307-3
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 02/16/2017 03:34
Date Quantitated: 02/16/2017 13:22
Batch ID: KWG1701307
Analysis Method: 8330B
MethodJoinID: MJ1278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\021517-210\0215000119.D			**Instrument:**	LC10
Acqu Date:	02/16/2017 03:34	**Quant Date:**	02/16/2017 13:22	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1278	**Dilution:**	1.0
Lab ID:	KWG1701307-3			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701307	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1278
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			23-98	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\021517-210\0215000119.D			**Instrument:**	LC10
Acqu Date:	02/16/2017 03:34	**Quant Date:**	02/16/2017 13:22	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701307-3			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701307	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-210\0215000119.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 16-Feb-2017, 03:34:29 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 13:22:33 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L d
	Target Compounds				
1) T	Nitroglycerin	0.000	0	N.D.	ug/L
2) T	PETN	0.000	0	N.D.	ug/L d

(f)=RT Delta > 1/2 Window (m)=manual int.

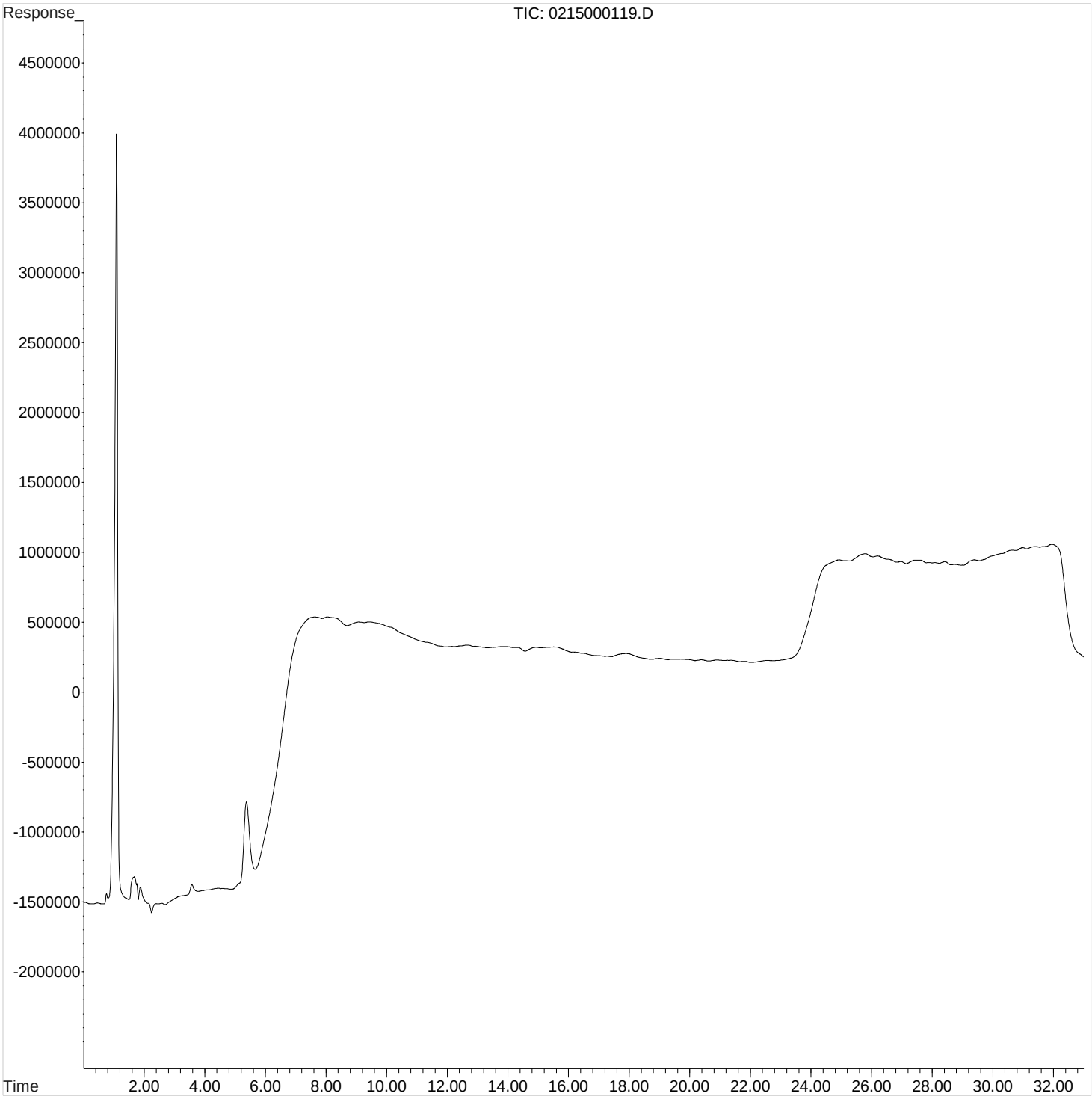
Quantitation Report (QT Reviewed)

(b) (6) 02/17/17 02/27/17

Data File : J:\LC10\Data\021517-210\0215000119.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 16-Feb-2017, 03:34:29 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 13:22:33 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Exception Report

Data File: J:\LC10\DATA\021517-210\0215000119.D
Lab ID: KWG1701307-3
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 02/16/2017 03:34
Date Quantitated: 02/16/2017 13:22
Batch ID: KWG1701307
Analysis Method: 8330B
MethodJoinID: MJ1278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\021517-210\0215000119.D			**Instrument:**	LC10
Acqu Date:	02/16/2017 03:34	**Quant Date:**	02/16/2017 13:22	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1278	**Dilution:**	1.0
Lab ID:	KWG1701307-3			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701307	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1278
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			23-98	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\021517-210\0215000119.D			**Instrument:**	LC10
Acqu Date:	02/16/2017 03:34	**Quant Date:**	02/16/2017 13:22	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701307-3			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701307	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-210\0215000119.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 16-Feb-2017, 03:34:29 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 13:22:33 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L d
Target Compounds					
1) T	Nitroglycerin	0.000	0	N.D.	ug/L
2) T	PETN	0.000	0	N.D.	ug/L d

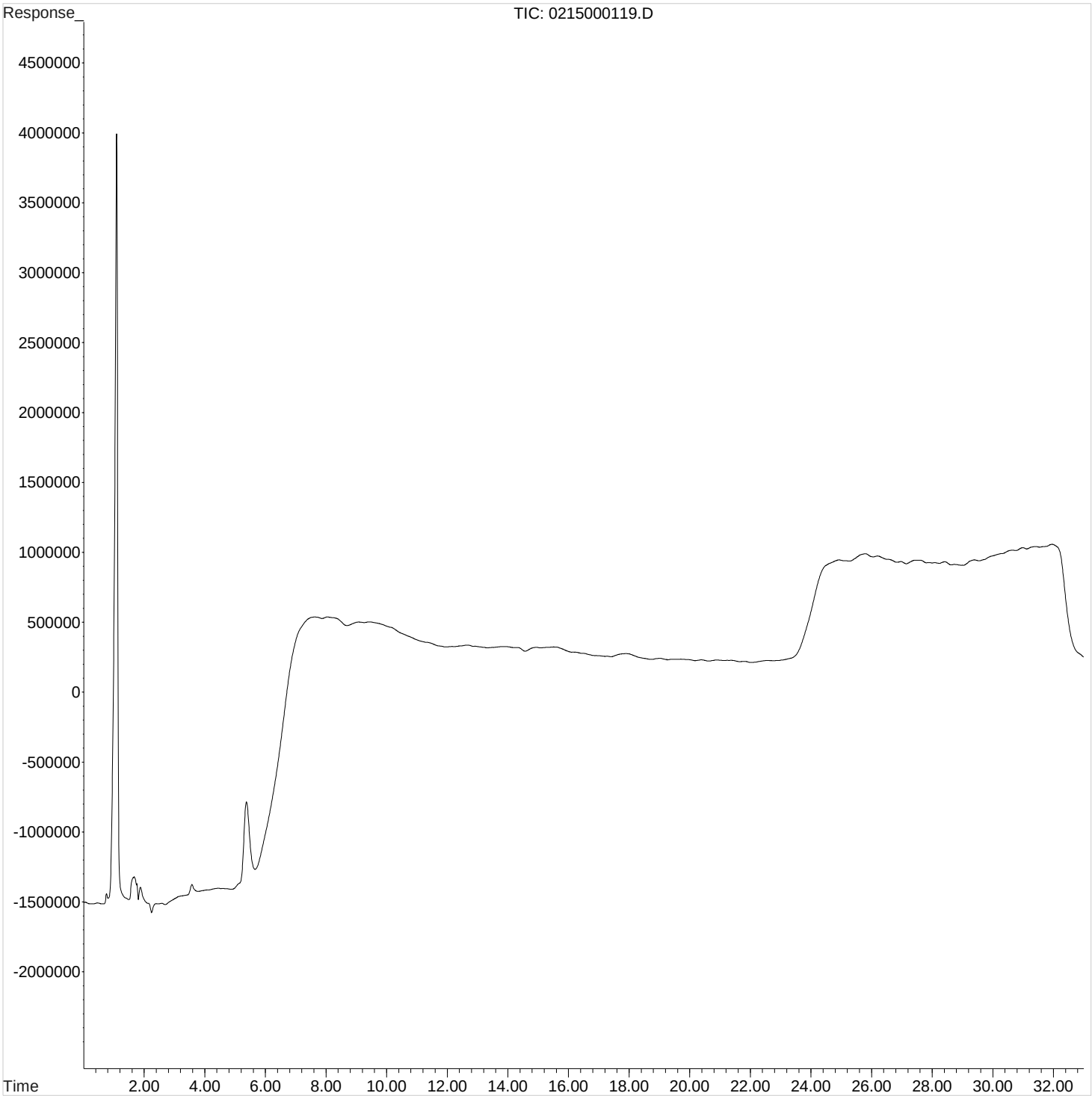
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-210\0215000119.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 16-Feb-2017, 03:34:29 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 13:22:33 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Exception Report

Data File: J:\LC10\DATA\021517-254\0215000103.D
Lab ID: KWG1701308-1
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 02/15/2017 17:54
Date Quantitated: 02/16/2017 10:28
Batch ID: KWG1701308
Analysis Method: 8330B
MethodJoinID: MJ1278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\021517-254\0215000103.D			**Instrument:**	LC10
Acqu Date:	02/15/2017 17:54	**Quant Date:**	02/16/2017 10:28	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1278	**Dilution:**	1.0
Lab ID:	KWG1701308-1			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701308	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1278
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			23-98	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\021517-254\0215000103.D			**Instrument:**	LC10
Acqu Date:	02/15/2017 17:54	**Quant Date:**	02/16/2017 10:28	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701308-1			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701308	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000103.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 17:54:57 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:28:40 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
18) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
	Target Compounds				
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2) T	HMX	0.000	0	N.D.	ug/L
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4) T	RDX	0.000	0	N.D.	ug/L
5) T	1,3,5-TNB	0.000	0	N.D.	ug/L
6) T	1,3-DNB	0.000	0	N.D.	ug/L
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8) T	Tetryl	0.000	0	N.D.	ug/L
9) T	Nitrobenzene	0.000	0	N.D.	ug/L
10) T	2,4,6-TNT	0.000	0	N.D.	ug/L
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13) T	2,6-DNT	0.000	0	N.D.	ug/L
14) T	2,4-DNT	0.000	0	N.D.	ug/L
15) T	2-NT	0.000	0	N.D.	ug/L
16) T	4-NT	0.000	0	N.D.	ug/L
17) T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] 2/17/17
2/27/17

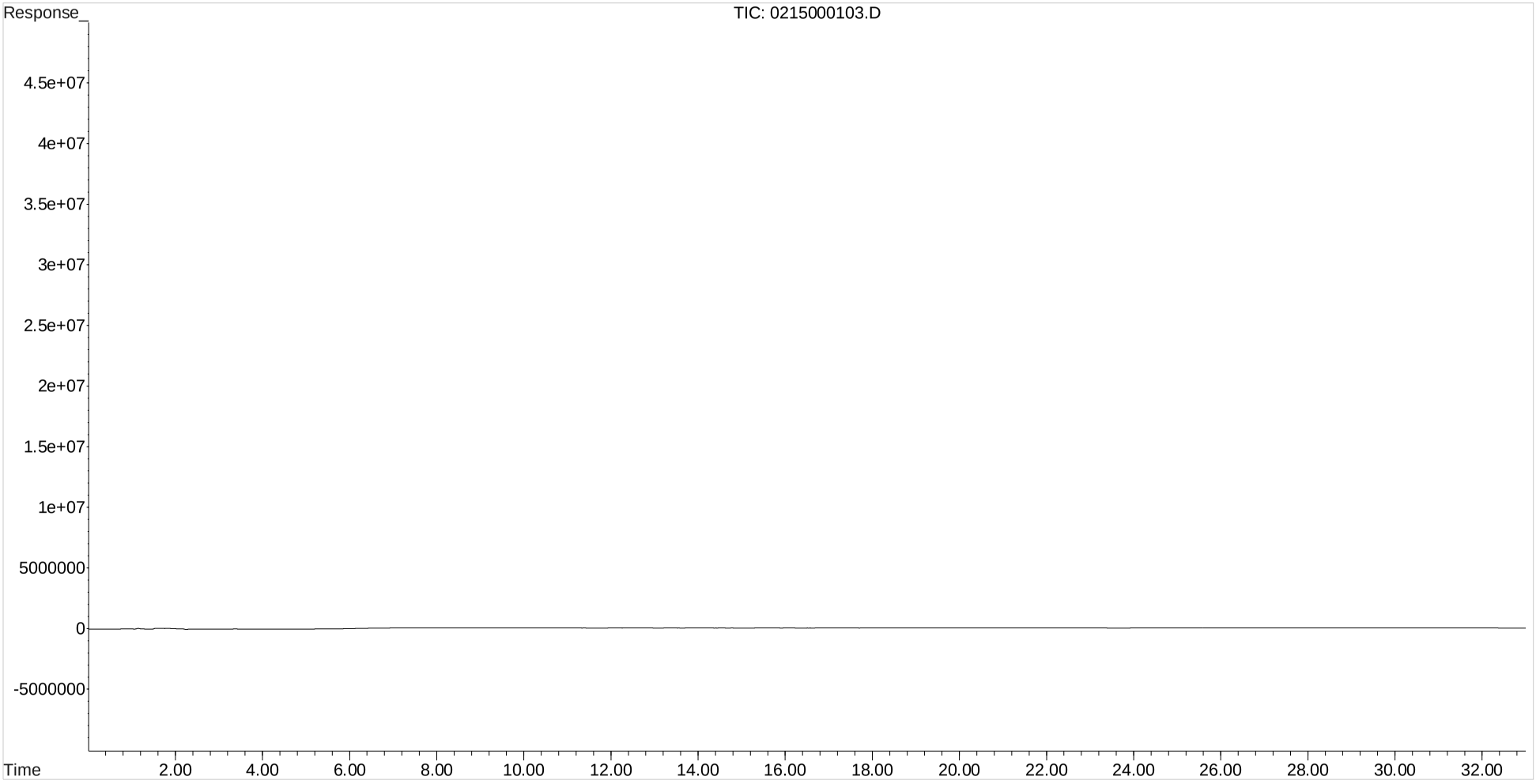
Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000103.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 17:54:57 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:28:40 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

11/01/2018



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012706

Exception Report

Data File: J:\LC10\DATA\021517-254\0215000103.D
Lab ID: KWG1701308-1
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 02/15/2017 17:54
Date Quantitated: 02/16/2017 10:28
Batch ID: KWG1701308
Analysis Method: 8330B
MethodJoinID: MJ1278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\021517-254\0215000103.D			**Instrument:**	LC10
Acqu Date:	02/15/2017 17:54	**Quant Date:**	02/16/2017 10:28	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1278	**Dilution:**	1.0
Lab ID:	KWG1701308-1			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701308	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1278
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			23-98	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\021517-254\0215000103.D			**Instrument:**	LC10
Acqu Date:	02/15/2017 17:54	**Quant Date:**	02/16/2017 10:28	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701308-1			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701308	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000103.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 17:54:57 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:28:40 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
18) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
	Target Compounds				
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2) T	HMX	0.000	0	N.D.	ug/L
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4) T	RDX	0.000	0	N.D.	ug/L
5) T	1,3,5-TNB	0.000	0	N.D.	ug/L
6) T	1,3-DNB	0.000	0	N.D.	ug/L
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8) T	Tetryl	0.000	0	N.D.	ug/L
9) T	Nitrobenzene	0.000	0	N.D.	ug/L
10) T	2,4,6-TNT	0.000	0	N.D.	ug/L
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13) T	2,6-DNT	0.000	0	N.D.	ug/L
14) T	2,4-DNT	0.000	0	N.D.	ug/L
15) T	2-NT	0.000	0	N.D.	ug/L
16) T	4-NT	0.000	0	N.D.	ug/L
17) T	3-NT	0.000	0	N.D.	ug/L

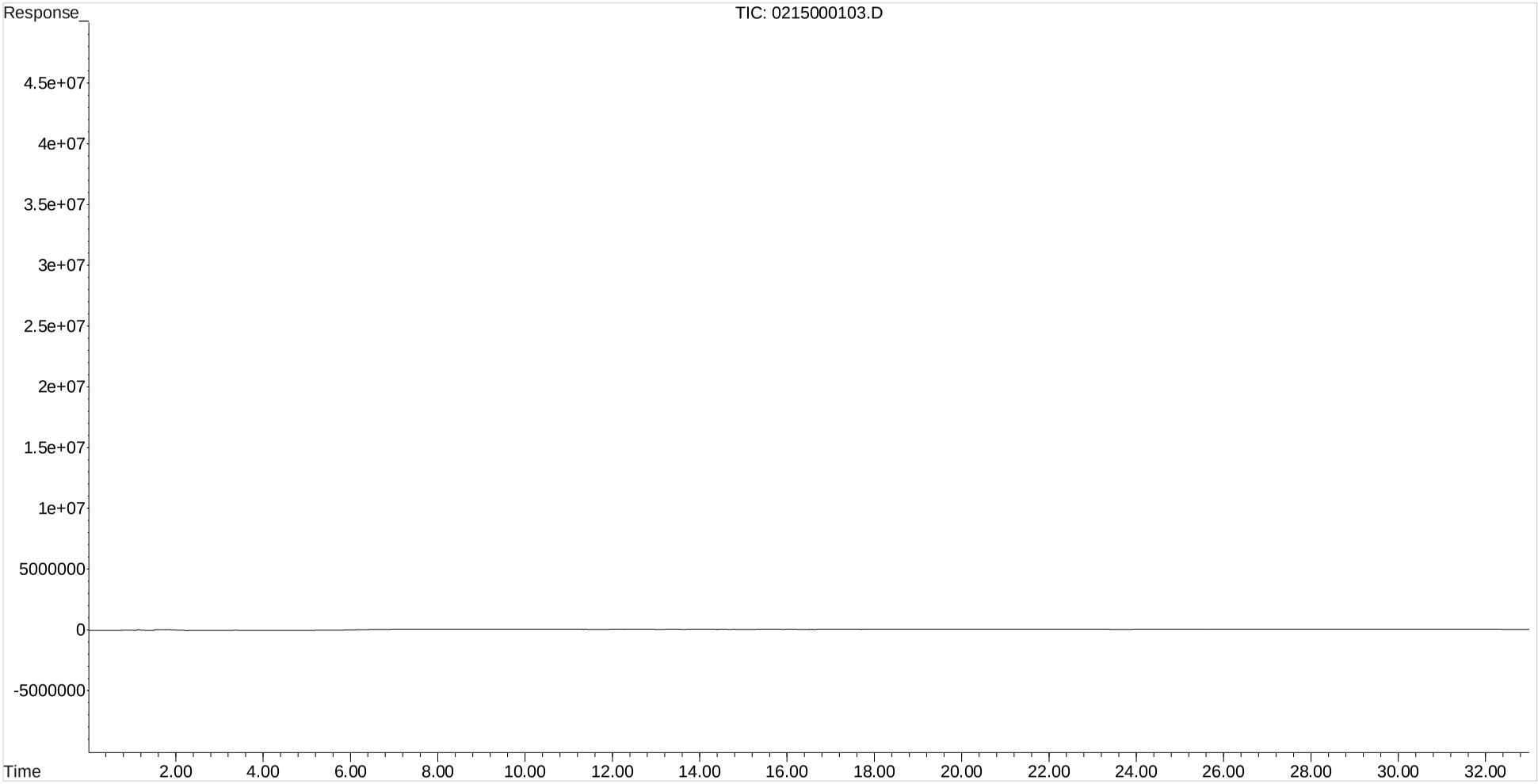
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000103.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 17:54:57 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:28:40 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



012711

Exception Report

Data File: J:\LC10\DATA\021517-254\0215000103.D
Lab ID: KWG1701308-1
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 02/15/2017 17:54
Date Quantitated: 02/16/2017 10:28
Batch ID: KWG1701308
Analysis Method: 8330B
MethodJoinID: MJ1278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\021517-254\0215000103.D			**Instrument:**	LC10
Acqu Date:	02/15/2017 17:54	**Quant Date:**	02/16/2017 10:28	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1278	**Dilution:**	1.0
Lab ID:	KWG1701308-1			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701308	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1278
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			23-98	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\021517-254\0215000103.D			**Instrument:**	LC10
Acqu Date:	02/15/2017 17:54	**Quant Date:**	02/16/2017 10:28	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701308-1			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701308	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000103.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 17:54:57 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:28:40 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	0.000	0	N.D.	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	0.000	0	N.D.	ug/L
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L
6)	T	1,3-DNB	0.000	0	N.D.	ug/L
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8)	T	Tetryl	0.000	0	N.D.	ug/L
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13)	T	2,6-DNT	0.000	0	N.D.	ug/L
14)	T	2,4-DNT	0.000	0	N.D.	ug/L
15)	T	2-NT	0.000	0	N.D.	ug/L
16)	T	4-NT	0.000	0	N.D.	ug/L
17)	T	3-NT	0.000	0	N.D.	ug/L

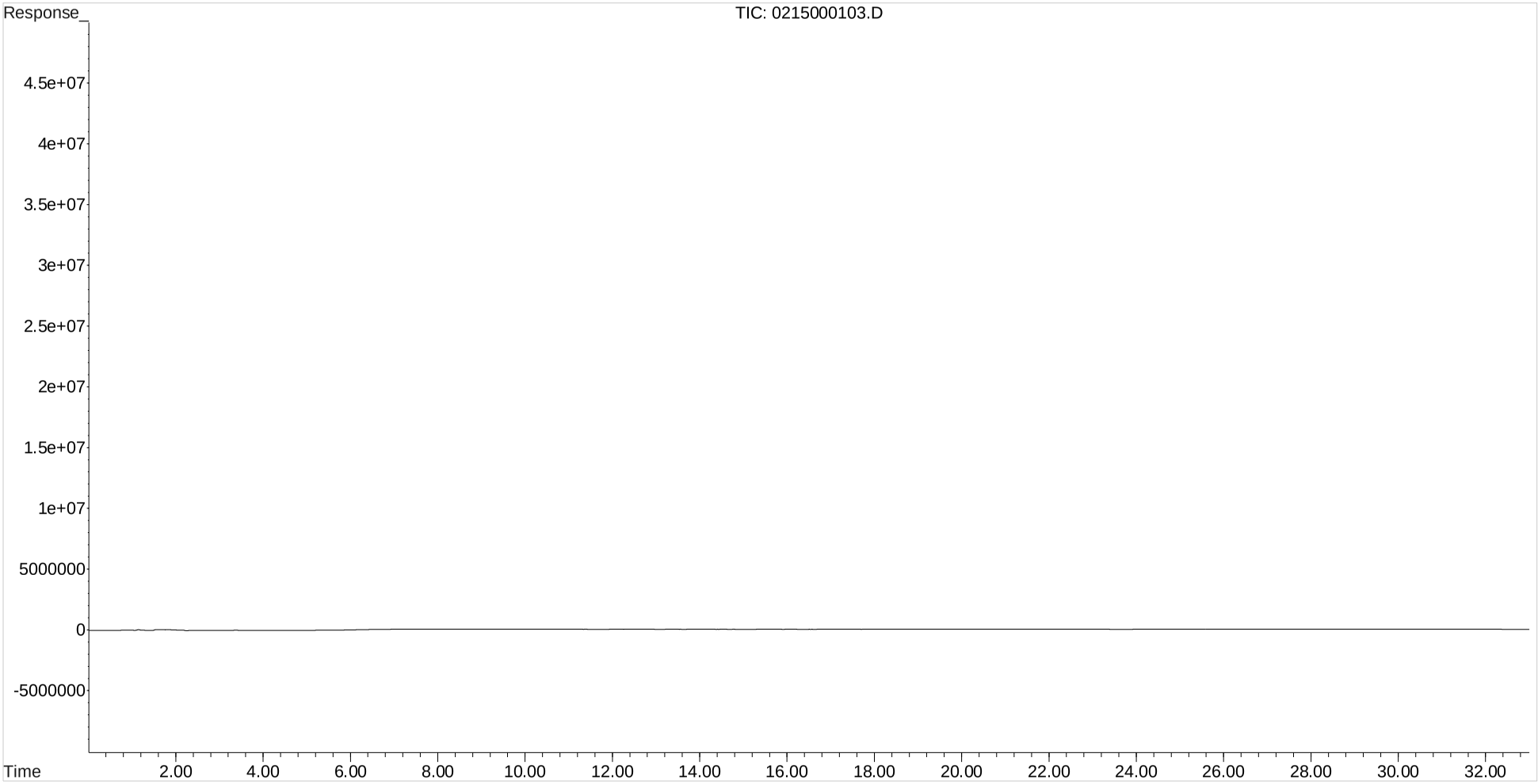
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000103.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 17:54:57 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:28:40 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



Exception Report

Data File: J:\LC10\DATA\021517-254\0215000103.D
Lab ID: KWG1701308-1
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 02/15/2017 17:54
Date Quantitated: 02/16/2017 10:28
Batch ID: KWG1701308
Analysis Method: 8330B
MethodJoinID: MJ1278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\021517-254\0215000103.D			**Instrument:**	LC10
Acqu Date:	02/15/2017 17:54	**Quant Date:**	02/16/2017 10:28	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1278	**Dilution:**	1.0
Lab ID:	KWG1701308-1			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701308	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1278
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			23-98	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\021517-254\0215000103.D			**Instrument:**	LC10
Acqu Date:	02/15/2017 17:54	**Quant Date:**	02/16/2017 10:28	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701308-1			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701308	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000103.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 17:54:57 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:28:40 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
18) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
	Target Compounds				
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2) T	HMX	0.000	0	N.D.	ug/L
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4) T	RDX	0.000	0	N.D.	ug/L
5) T	1,3,5-TNB	0.000	0	N.D.	ug/L
6) T	1,3-DNB	0.000	0	N.D.	ug/L
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8) T	Tetryl	0.000	0	N.D.	ug/L
9) T	Nitrobenzene	0.000	0	N.D.	ug/L
10) T	2,4,6-TNT	0.000	0	N.D.	ug/L
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13) T	2,6-DNT	0.000	0	N.D.	ug/L
14) T	2,4-DNT	0.000	0	N.D.	ug/L
15) T	2-NT	0.000	0	N.D.	ug/L
16) T	4-NT	0.000	0	N.D.	ug/L
17) T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] 02/17/17
02/27/17

Quantitation Report (QT Reviewed)

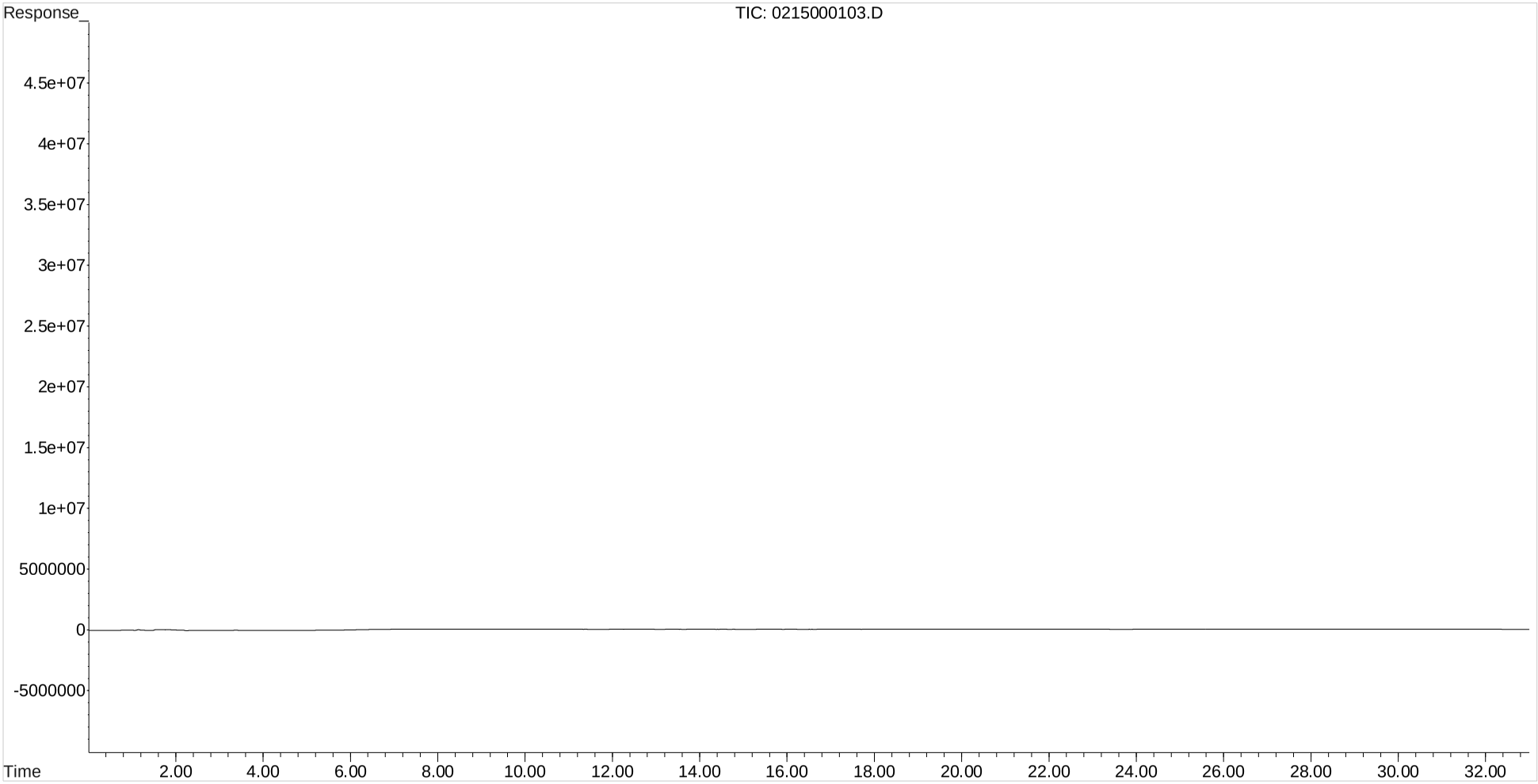
Data File : J:\LC10\Data\021517-254\0215000103.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 17:54:57 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00

11/01/2018

Integration File: RTEINT.P
Quant Time: Feb 16 10:28:40 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



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012721

Exception Report

Data File: J:\LC10\DATA\021517-254\0215000103.D
Lab ID: KWG1701308-1
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 02/15/2017 17:54
Date Quantitated: 02/16/2017 10:28
Batch ID: KWG1701308
Analysis Method: 8330B
MethodJoinID: MJ1278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\021517-254\0215000103.D			**Instrument:**	LC10
Acqu Date:	02/15/2017 17:54	**Quant Date:**	02/16/2017 10:28	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1278	**Dilution:**	1.0
Lab ID:	KWG1701308-1			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701308	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1278
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			23-98	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\021517-254\0215000103.D			**Instrument:**	LC10
Acqu Date:	02/15/2017 17:54	**Quant Date:**	02/16/2017 10:28	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701308-1			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701308	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000103.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 17:54:57 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:28:40 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	0.000	0	N.D.	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	0.000	0	N.D.	ug/L
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L
6)	T	1,3-DNB	0.000	0	N.D.	ug/L
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8)	T	Tetryl	0.000	0	N.D.	ug/L
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13)	T	2,6-DNT	0.000	0	N.D.	ug/L
14)	T	2,4-DNT	0.000	0	N.D.	ug/L
15)	T	2-NT	0.000	0	N.D.	ug/L
16)	T	4-NT	0.000	0	N.D.	ug/L
17)	T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

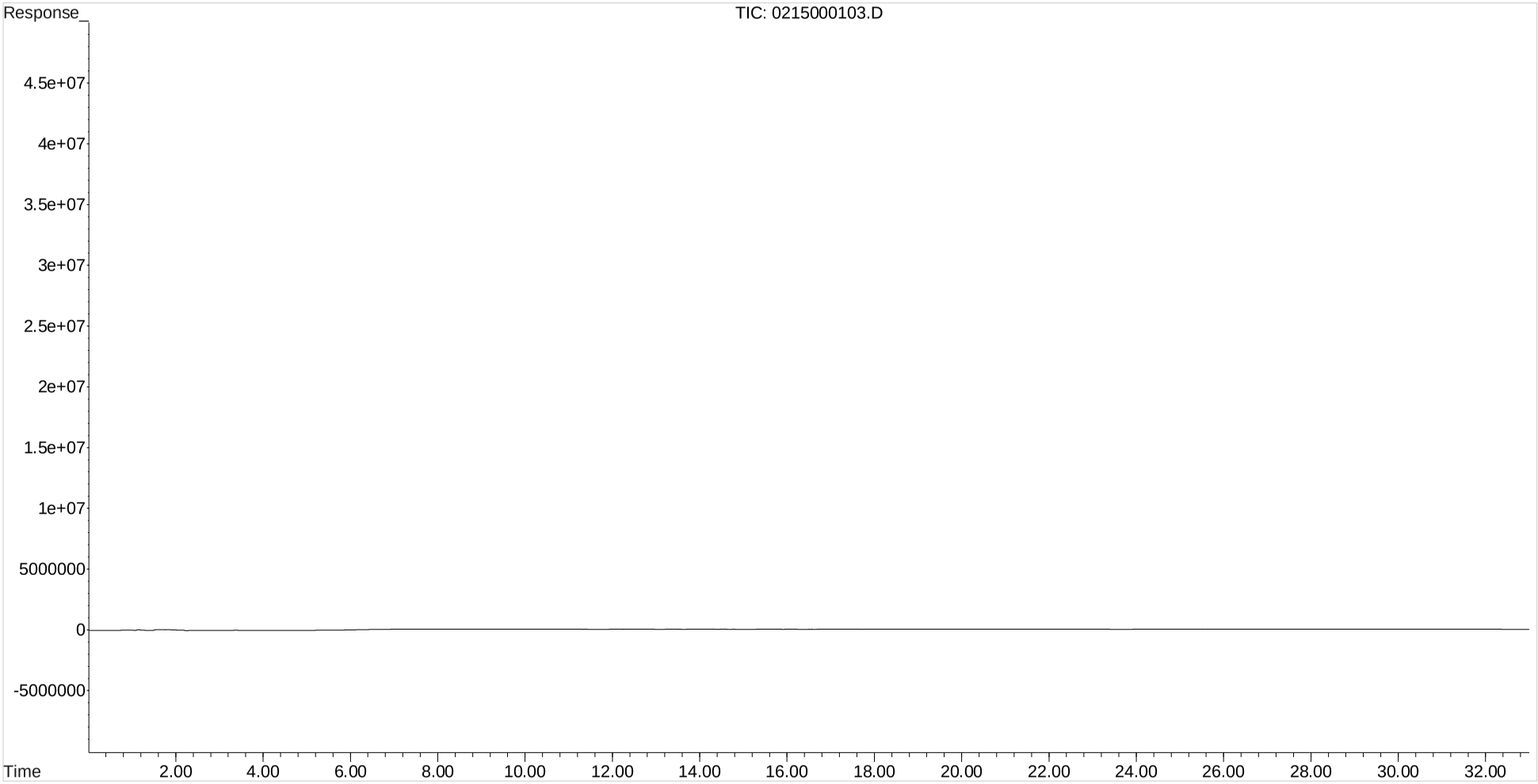
[redacted] 2/17/17
(6) (b) 2/27/17

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000103.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 17:54:57 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:28:40 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



11/01/2018

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012726

Exception Report

Data File: J:\LC10\DATA\021517-254\0215000103.D
Lab ID: KWG1701308-1
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 02/15/2017 17:54
Date Quantitated: 02/16/2017 10:28
Batch ID: KWG1701308
Analysis Method: 8330B
MethodJoinID: MJ1278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\021517-254\0215000103.D			**Instrument:**	LC10
Acqu Date:	02/15/2017 17:54	**Quant Date:**	02/16/2017 10:28	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1278	**Dilution:**	1.0
Lab ID:	KWG1701308-1			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701308	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1278
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			23-98	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\021517-254\0215000103.D			**Instrument:**	LC10
Acqu Date:	02/15/2017 17:54	**Quant Date:**	02/16/2017 10:28	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701308-1			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701308	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000103.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 17:54:57 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:28:40 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	0.000	0	N.D.	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	0.000	0	N.D.	ug/L
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L
6)	T	1,3-DNB	0.000	0	N.D.	ug/L
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8)	T	Tetryl	0.000	0	N.D.	ug/L
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13)	T	2,6-DNT	0.000	0	N.D.	ug/L
14)	T	2,4-DNT	0.000	0	N.D.	ug/L
15)	T	2-NT	0.000	0	N.D.	ug/L
16)	T	4-NT	0.000	0	N.D.	ug/L
17)	T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] 02/17/17
02/27/17

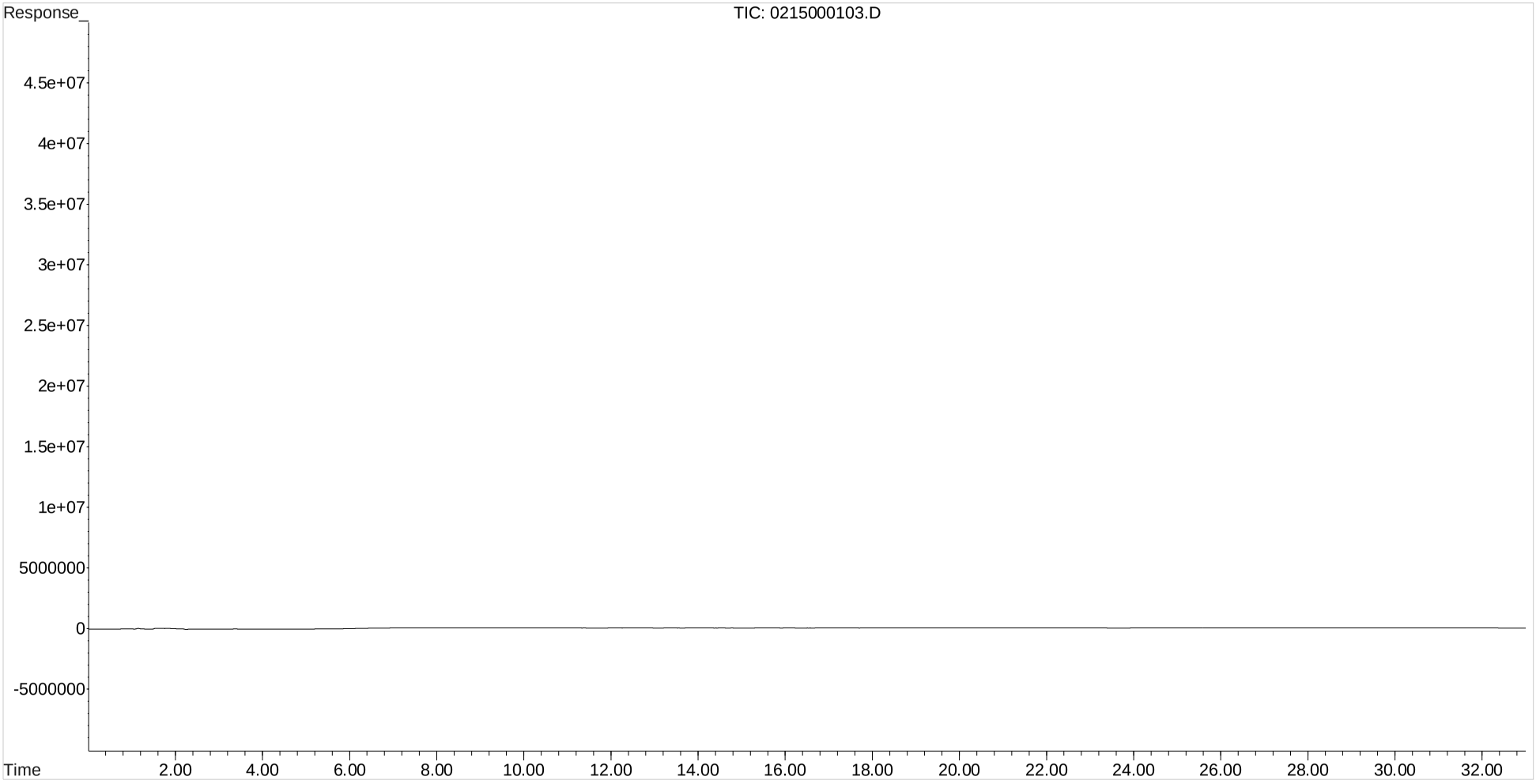
Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000103.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 17:54:57 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:28:40 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

11/01/2018



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012731

Exception Report

Data File: J:\LC10\DATA\021517-254\0215000103.D
Lab ID: KWG1701308-1
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 02/15/2017 17:54
Date Quantitated: 02/16/2017 10:28
Batch ID: KWG1701308
Analysis Method: 8330B
MethodJoinID: MJ1278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\021517-254\0215000103.D			**Instrument:**	LC10
Acqu Date:	02/15/2017 17:54	**Quant Date:**	02/16/2017 10:28	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1278	**Dilution:**	1.0
Lab ID:	KWG1701308-1			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701308	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1278
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			23-98	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\021517-254\0215000103.D			**Instrument:**	LC10
Acqu Date:	02/15/2017 17:54	**Quant Date:**	02/16/2017 10:28	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701308-1			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701308	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000103.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 17:54:57 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:28:40 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	0.000	0	N.D.	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	0.000	0	N.D.	ug/L
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L
6)	T	1,3-DNB	0.000	0	N.D.	ug/L
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8)	T	Tetryl	0.000	0	N.D.	ug/L
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13)	T	2,6-DNT	0.000	0	N.D.	ug/L
14)	T	2,4-DNT	0.000	0	N.D.	ug/L
15)	T	2-NT	0.000	0	N.D.	ug/L
16)	T	4-NT	0.000	0	N.D.	ug/L
17)	T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)
02/17/17
02/27/17

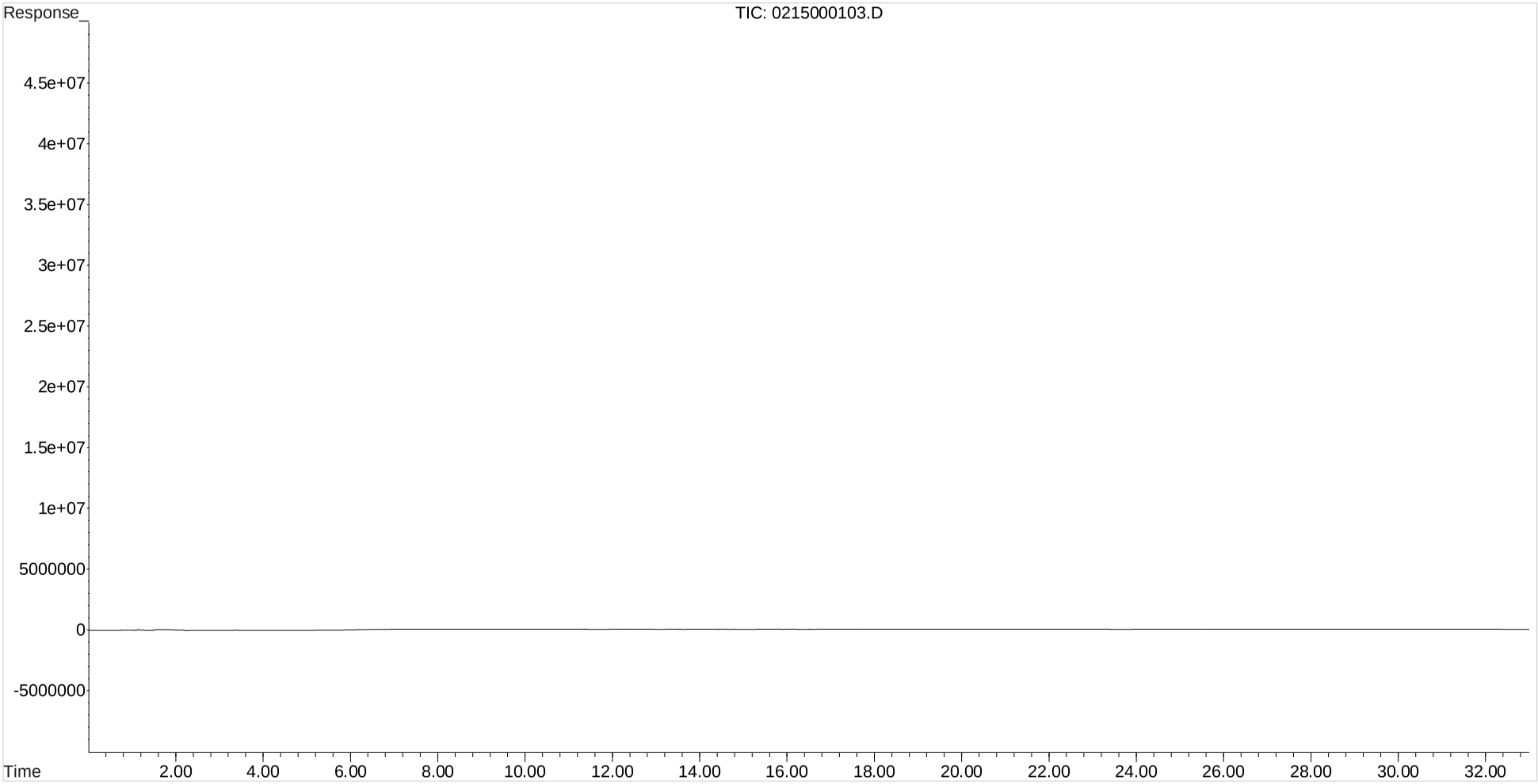
Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000103.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 15-Feb-2017, 17:54:57 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:28:40 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

11/01/2018



012736

Exception Report

Data File: J:\LC10\DATA\021517-254\0215000119.D
Lab ID: KWG1701308-3
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 02/16/2017 03:34
Date Quantitated: 02/16/2017 10:29
Batch ID: KWG1701308
Analysis Method: 8330B
MethodJoinID: MJ1278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\021517-254\0215000119.D			**Instrument:**	LC10
Acqu Date:	02/16/2017 03:34	**Quant Date:**	02/16/2017 10:29	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1278	**Dilution:**	1.0
Lab ID:	KWG1701308-3			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701308	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1278
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			23-98	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\021517-254\0215000119.D			**Instrument:**	LC10
Acqu Date:	02/16/2017 03:34	**Quant Date:**	02/16/2017 10:29	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701308-3			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701308	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000119.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 03:34:29 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:29:10 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	0.000	0	N.D.	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	0.000	0	N.D.	ug/L
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L
6)	T	1,3-DNB	0.000	0	N.D.	ug/L
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8)	T	Tetryl	0.000	0	N.D.	ug/L
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13)	T	2,6-DNT	0.000	0	N.D.	ug/L
14)	T	2,4-DNT	0.000	0	N.D.	ug/L
15)	T	2-NT	0.000	0	N.D.	ug/L
16)	T	4-NT	0.000	0	N.D.	ug/L
17)	T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

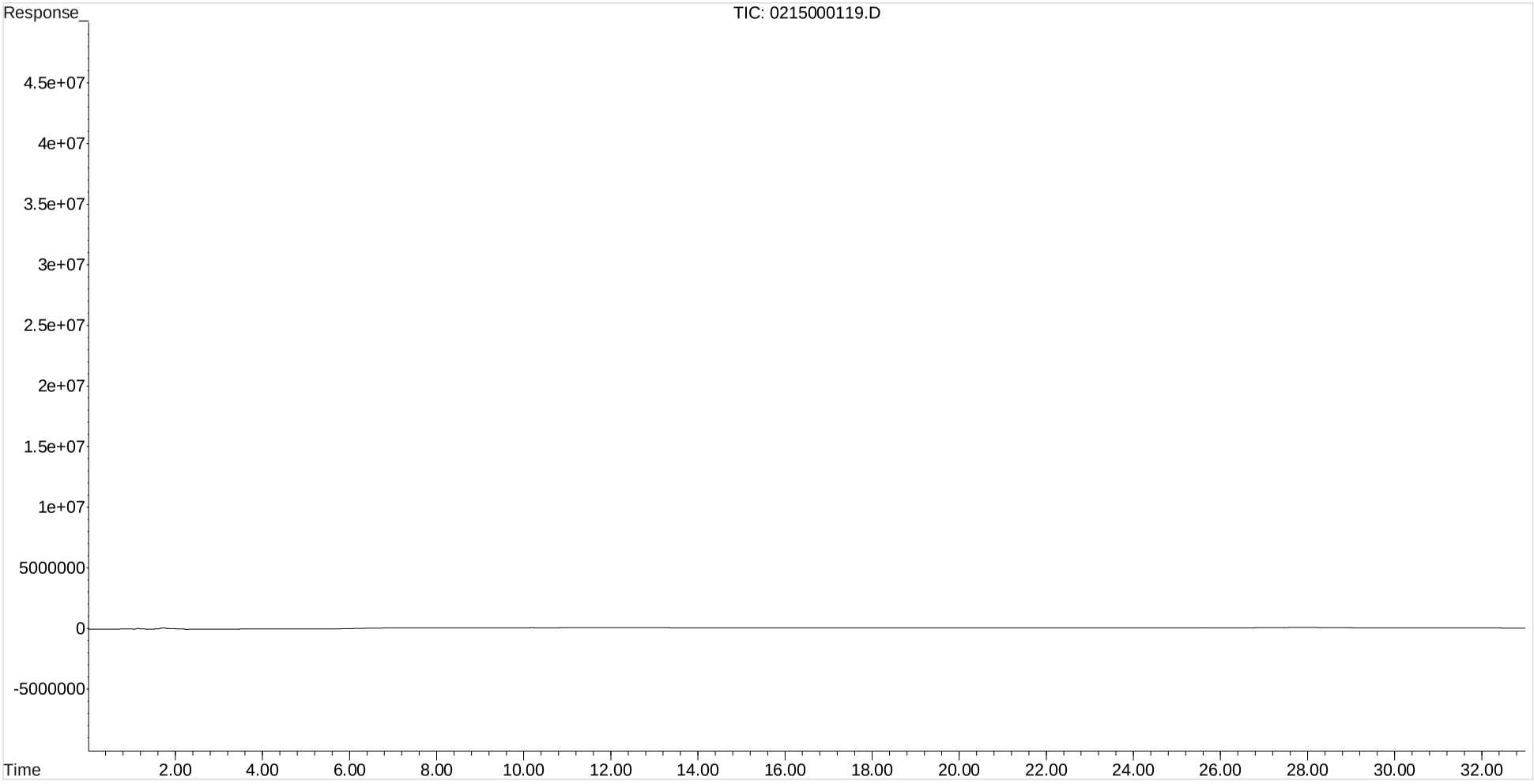
[redacted] 2/16/17
(g) (g) 2/27/17

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000119.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 03:34:29 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:29:10 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



11/01/2018

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012741

Exception Report

Data File: J:\LC10\DATA\021517-254\0215000119.D
Lab ID: KWG1701308-3
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 02/16/2017 03:34
Date Quantitated: 02/16/2017 10:29
Batch ID: KWG1701308
Analysis Method: 8330B
MethodJoinID: MJ1278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\021517-254\0215000119.D			**Instrument:**	LC10
Acqu Date:	02/16/2017 03:34	**Quant Date:**	02/16/2017 10:29	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1278	**Dilution:**	1.0
Lab ID:	KWG1701308-3			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701308	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1278
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			23-98	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\021517-254\0215000119.D			**Instrument:**	LC10
Acqu Date:	02/16/2017 03:34	**Quant Date:**	02/16/2017 10:29	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701308-3			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701308	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000119.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 03:34:29 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:29:10 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	0.000	0	N.D.	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	0.000	0	N.D.	ug/L
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L
6)	T	1,3-DNB	0.000	0	N.D.	ug/L
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8)	T	Tetryl	0.000	0	N.D.	ug/L
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13)	T	2,6-DNT	0.000	0	N.D.	ug/L
14)	T	2,4-DNT	0.000	0	N.D.	ug/L
15)	T	2-NT	0.000	0	N.D.	ug/L
16)	T	4-NT	0.000	0	N.D.	ug/L
17)	T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

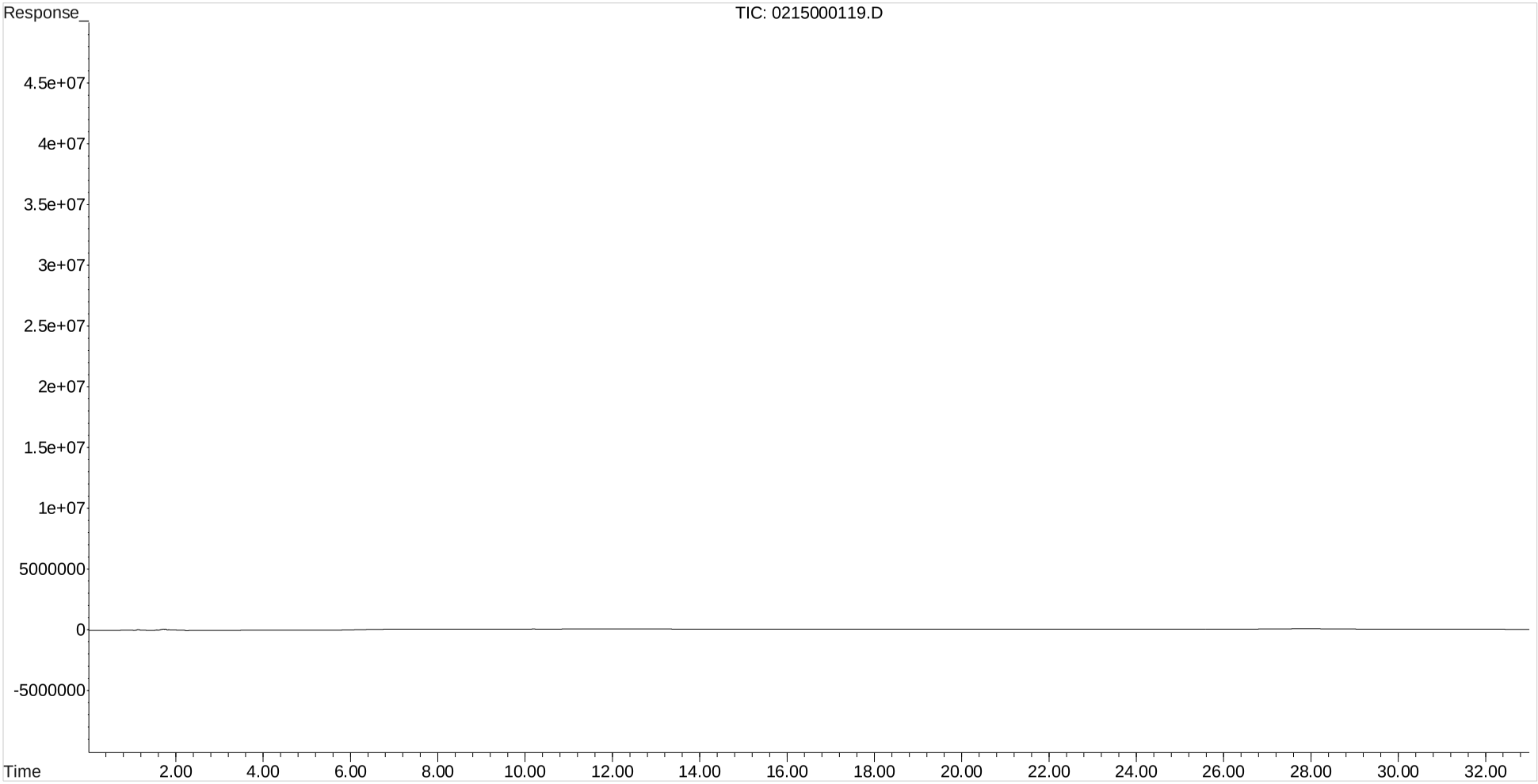
[redacted] 2/16/17
(b) (6) 2/27/17

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000119.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 03:34:29 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:29:10 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



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012746

Exception Report

Data File: J:\LC10\DATA\021517-254\0215000119.D
Lab ID: KWG1701308-3
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 02/16/2017 03:34
Date Quantitated: 02/16/2017 10:29
Batch ID: KWG1701308
Analysis Method: 8330B
MethodJoinID: MJ1278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\021517-254\0215000119.D			**Instrument:**	LC10
Acqu Date:	02/16/2017 03:34	**Quant Date:**	02/16/2017 10:29	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1278	**Dilution:**	1.0
Lab ID:	KWG1701308-3			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701308	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1278
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			23-98	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\021517-254\0215000119.D			**Instrument:**	LC10
Acqu Date:	02/16/2017 03:34	**Quant Date:**	02/16/2017 10:29	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701308-3			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701308	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000119.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 03:34:29 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:29:10 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	0.000	0	N.D.	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	0.000	0	N.D.	ug/L
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L
6)	T	1,3-DNB	0.000	0	N.D.	ug/L
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8)	T	Tetryl	0.000	0	N.D.	ug/L
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13)	T	2,6-DNT	0.000	0	N.D.	ug/L
14)	T	2,4-DNT	0.000	0	N.D.	ug/L
15)	T	2-NT	0.000	0	N.D.	ug/L
16)	T	4-NT	0.000	0	N.D.	ug/L
17)	T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

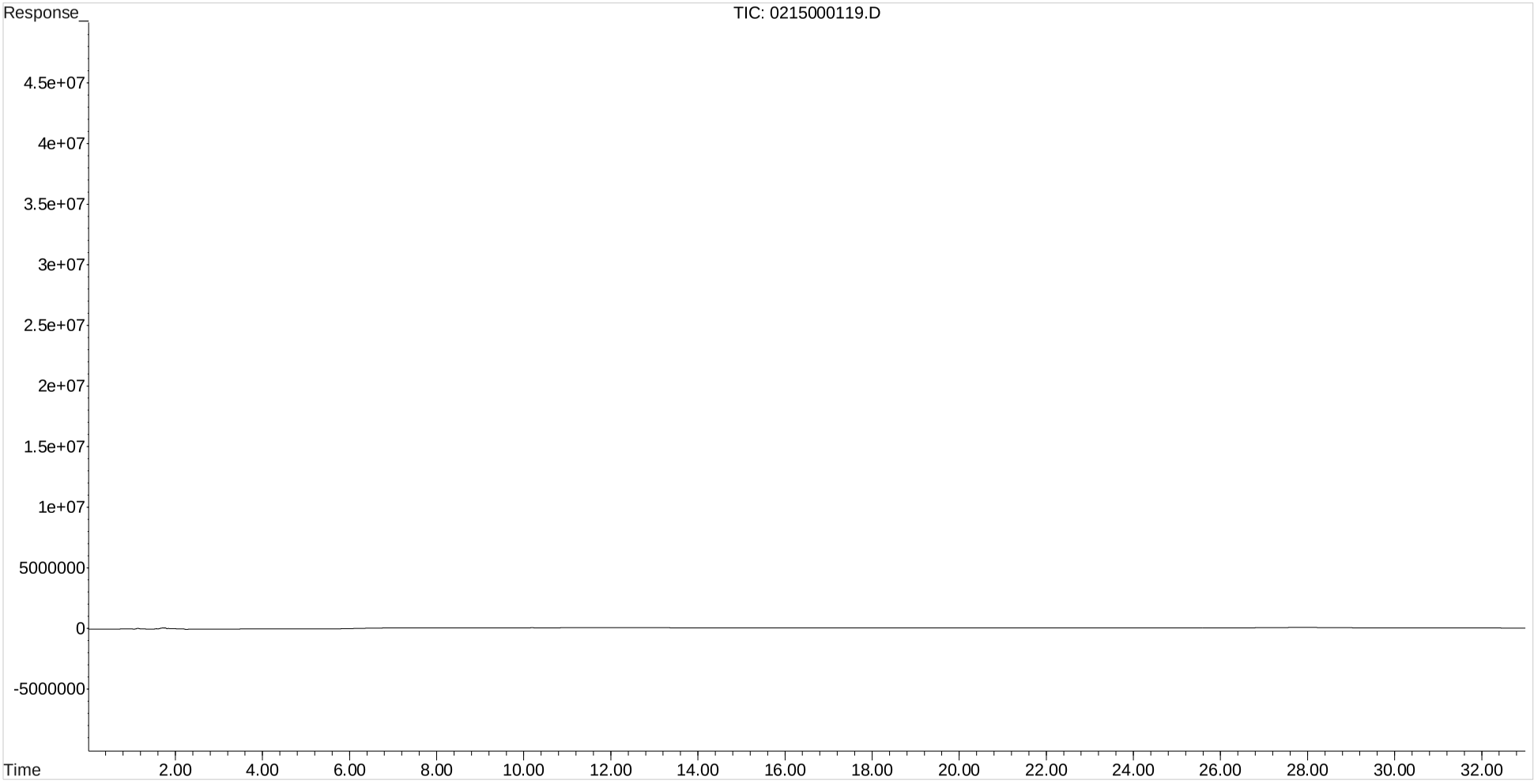
[redacted] (6)(6) 16/17
27/17

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000119.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 03:34:29 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:29:10 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



11/01/2018

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012751

Exception Report

Data File: J:\LC10\DATA\021517-254\0215000119.D
Lab ID: KWG1701308-3
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 02/16/2017 03:34
Date Quantitated: 02/16/2017 10:29
Batch ID: KWG1701308
Analysis Method: 8330B
MethodJoinID: MJ1278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\021517-254\0215000119.D			**Instrument:**	LC10
Acqu Date:	02/16/2017 03:34	**Quant Date:**	02/16/2017 10:29	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1278	**Dilution:**	1.0
Lab ID:	KWG1701308-3			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701308	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1278
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			23-98	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\021517-254\0215000119.D			**Instrument:**	LC10
Acqu Date:	02/16/2017 03:34	**Quant Date:**	02/16/2017 10:29	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701308-3			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701308	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000119.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 03:34:29 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:29:10 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	0.000	0	N.D.	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	0.000	0	N.D.	ug/L
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L
6)	T	1,3-DNB	0.000	0	N.D.	ug/L
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8)	T	Tetryl	0.000	0	N.D.	ug/L
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13)	T	2,6-DNT	0.000	0	N.D.	ug/L
14)	T	2,4-DNT	0.000	0	N.D.	ug/L
15)	T	2-NT	0.000	0	N.D.	ug/L
16)	T	4-NT	0.000	0	N.D.	ug/L
17)	T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

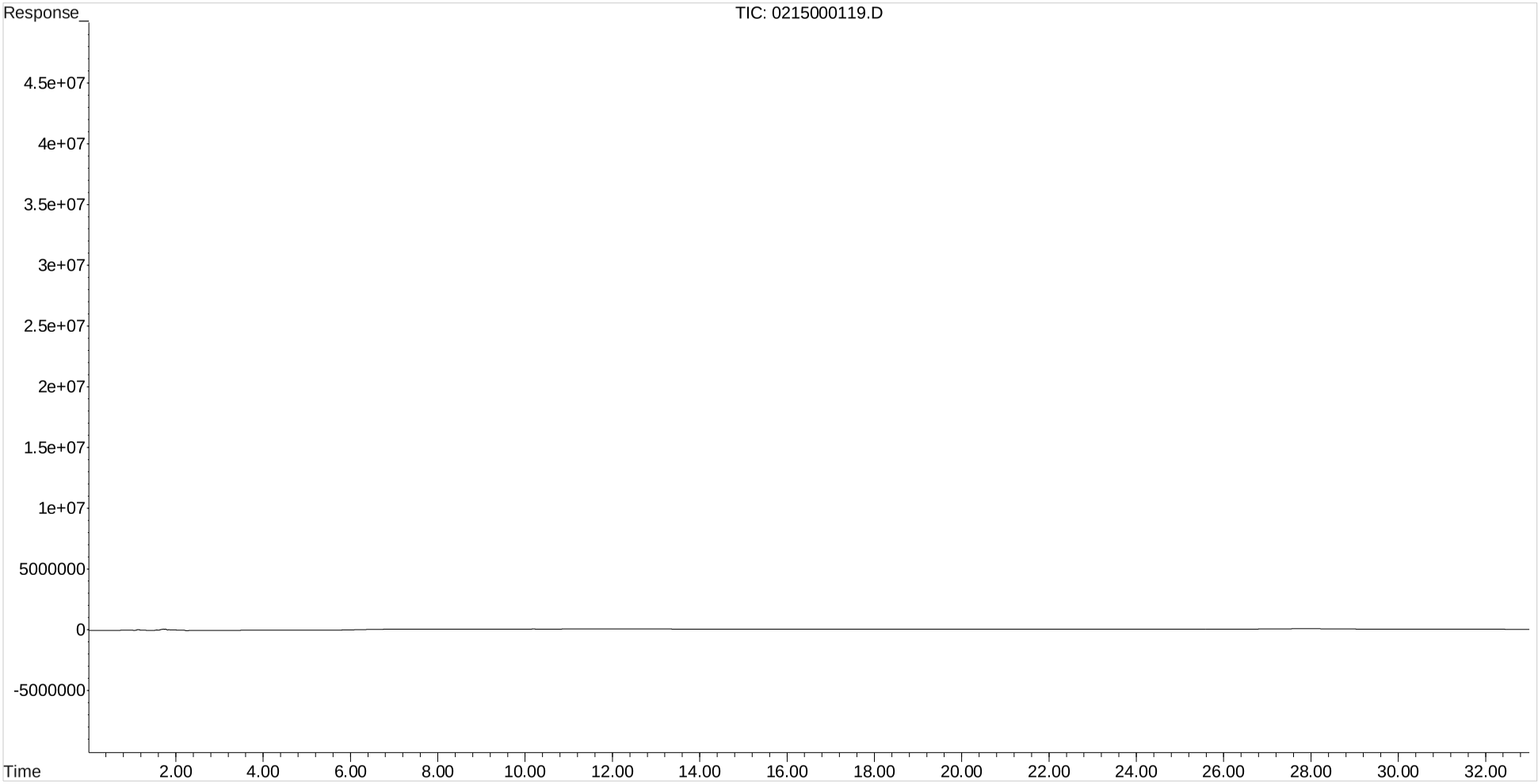
Quantitation Report (QT Reviewed)

[redacted] 02/16/17
02/27/17

Data File : J:\LC10\Data\021517-254\0215000119.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 03:34:29 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:29:10 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



Exception Report

Data File: J:\LC10\DATA\021517-254\0215000119.D
Lab ID: KWG1701308-3
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 02/16/2017 03:34
Date Quantitated: 02/16/2017 10:29
Batch ID: KWG1701308
Analysis Method: 8330B
MethodJoinID: MJ1278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\021517-254\0215000119.D			**Instrument:**	LC10
Acqu Date:	02/16/2017 03:34	**Quant Date:**	02/16/2017 10:29	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1278	**Dilution:**	1.0
Lab ID:	KWG1701308-3			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701308	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1278
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			23-98	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\021517-254\0215000119.D			**Instrument:**	LC10
Acqu Date:	02/16/2017 03:34	**Quant Date:**	02/16/2017 10:29	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701308-3			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701308	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000119.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 03:34:29 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:29:10 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	0.000	0	N.D.	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	0.000	0	N.D.	ug/L
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L
6)	T	1,3-DNB	0.000	0	N.D.	ug/L
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8)	T	Tetryl	0.000	0	N.D.	ug/L
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13)	T	2,6-DNT	0.000	0	N.D.	ug/L
14)	T	2,4-DNT	0.000	0	N.D.	ug/L
15)	T	2-NT	0.000	0	N.D.	ug/L
16)	T	4-NT	0.000	0	N.D.	ug/L
17)	T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] 02/16/17
(9) (g) 02/27/17

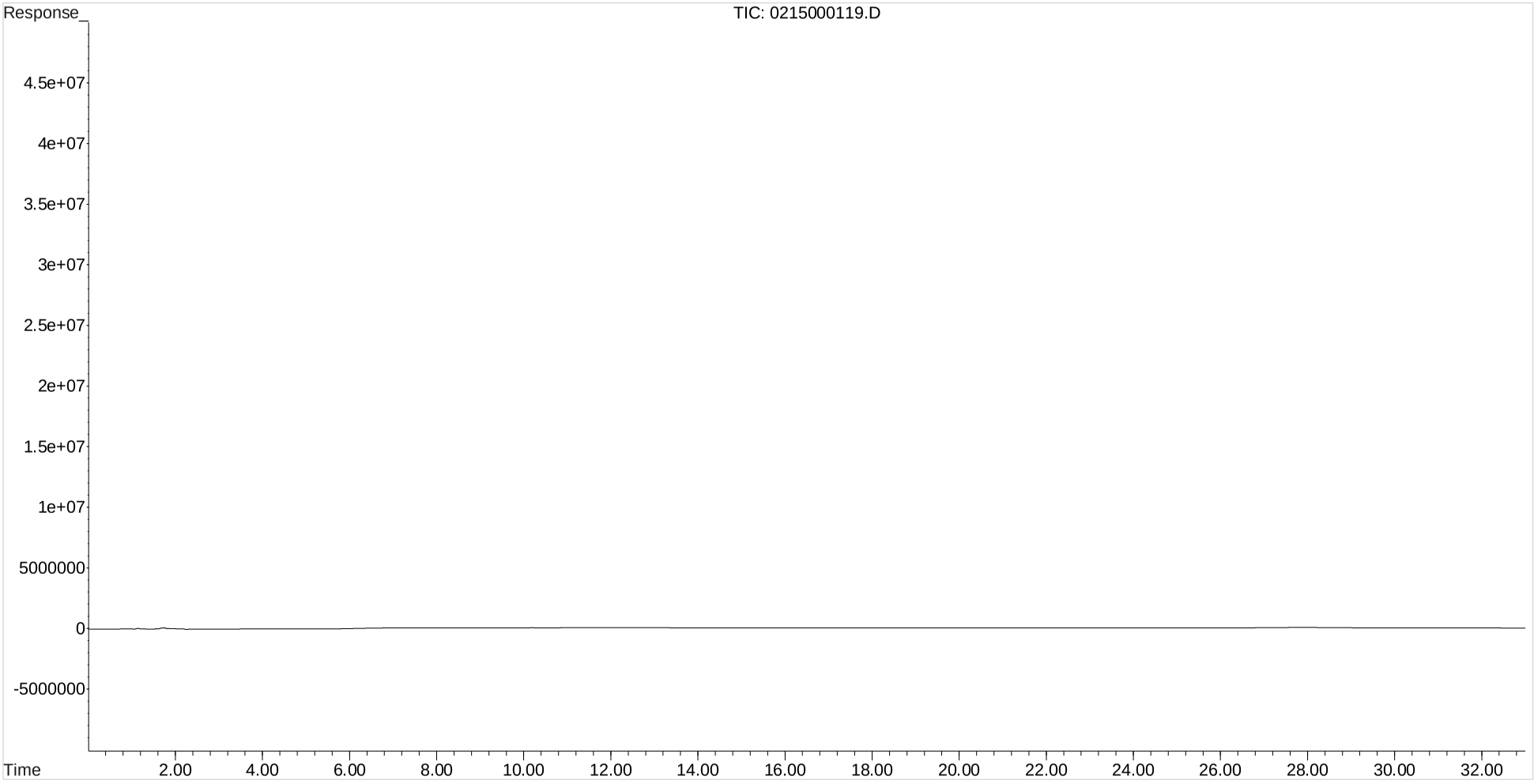
Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000119.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 03:34:29 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:29:10 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

11/01/2018



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012761

Exception Report

Data File: J:\LC10\DATA\021517-254\0215000119.D
Lab ID: KWG1701308-3
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 02/16/2017 03:34
Date Quantitated: 02/16/2017 10:29
Batch ID: KWG1701308
Analysis Method: 8330B
MethodJoinID: MJ1278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\021517-254\0215000119.D			**Instrument:**	LC10
Acqu Date:	02/16/2017 03:34	**Quant Date:**	02/16/2017 10:29	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1278	**Dilution:**	1.0
Lab ID:	KWG1701308-3			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701308	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1278
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			23-98	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\021517-254\0215000119.D			**Instrument:**	LC10
Acqu Date:	02/16/2017 03:34	**Quant Date:**	02/16/2017 10:29	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701308-3			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701308	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000119.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 03:34:29 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:29:10 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	0.000	0	N.D.	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	0.000	0	N.D.	ug/L
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L
6)	T	1,3-DNB	0.000	0	N.D.	ug/L
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8)	T	Tetryl	0.000	0	N.D.	ug/L
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13)	T	2,6-DNT	0.000	0	N.D.	ug/L
14)	T	2,4-DNT	0.000	0	N.D.	ug/L
15)	T	2-NT	0.000	0	N.D.	ug/L
16)	T	4-NT	0.000	0	N.D.	ug/L
17)	T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] 2/16/17
(b) (6) 2/27/17

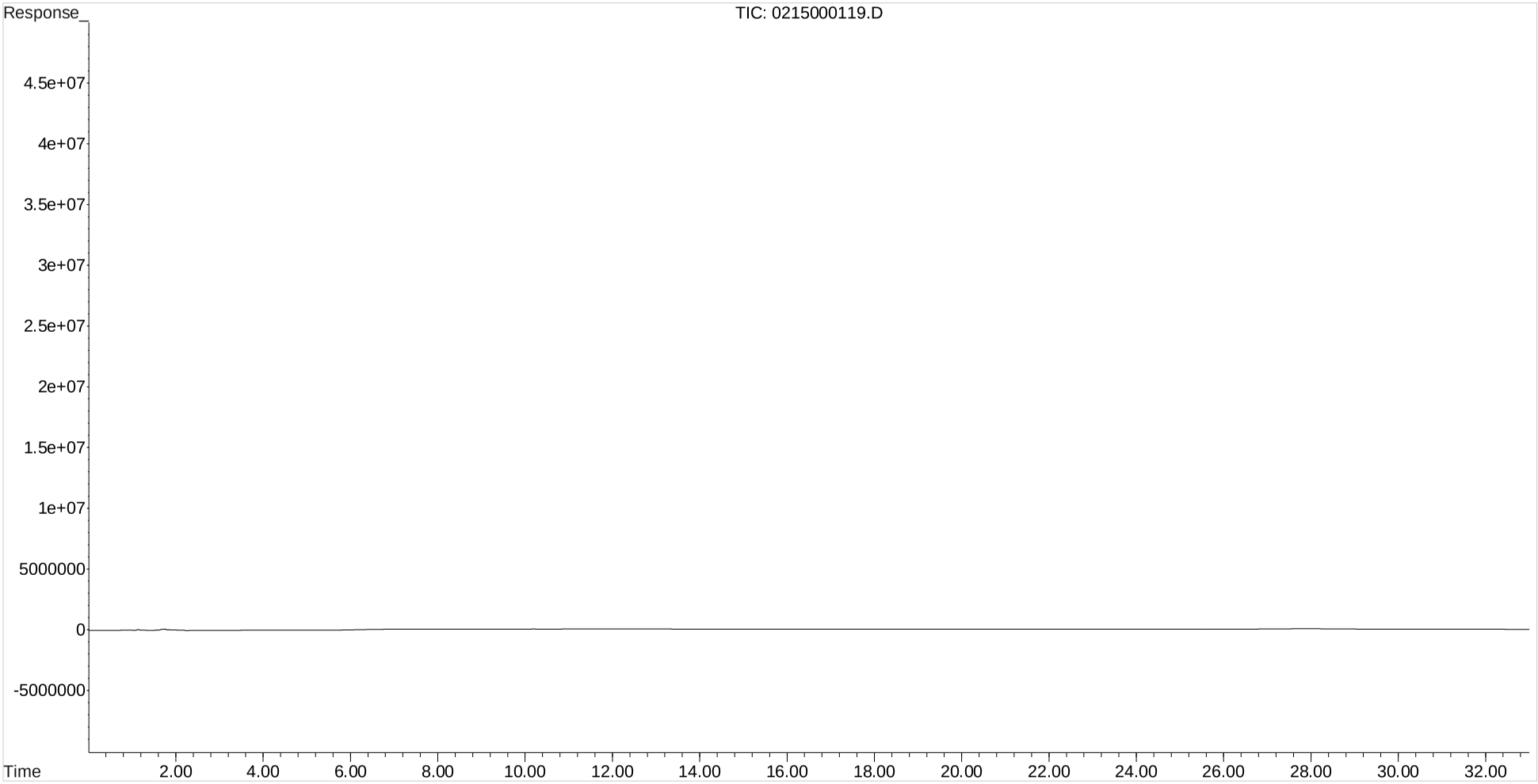
11/01/2018

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000119.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 03:34:29 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:29:10 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



Exception Report

Data File: J:\LC10\DATA\021517-254\0215000119.D
Lab ID: KWG1701308-3
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 02/16/2017 03:34
Date Quantitated: 02/16/2017 10:29
Batch ID: KWG1701308
Analysis Method: 8330B
MethodJoinID: MJ1278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\021517-254\0215000119.D			**Instrument:**	LC10
Acqu Date:	02/16/2017 03:34	**Quant Date:**	02/16/2017 10:29	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1278	**Dilution:**	1.0
Lab ID:	KWG1701308-3			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701308	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1278
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			23-98	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\021517-254\0215000119.D			**Instrument:**	LC10
Acqu Date:	02/16/2017 03:34	**Quant Date:**	02/16/2017 10:29	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701308-3			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/16/2017

Analysis Lot:	KWG1701308	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000119.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 03:34:29 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:29:10 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
18) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
	Target Compounds				
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2) T	HMX	0.000	0	N.D.	ug/L
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4) T	RDX	0.000	0	N.D.	ug/L
5) T	1,3,5-TNB	0.000	0	N.D.	ug/L
6) T	1,3-DNB	0.000	0	N.D.	ug/L
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8) T	Tetryl	0.000	0	N.D.	ug/L
9) T	Nitrobenzene	0.000	0	N.D.	ug/L
10) T	2,4,6-TNT	0.000	0	N.D.	ug/L
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13) T	2,6-DNT	0.000	0	N.D.	ug/L
14) T	2,4-DNT	0.000	0	N.D.	ug/L
15) T	2-NT	0.000	0	N.D.	ug/L
16) T	4-NT	0.000	0	N.D.	ug/L
17) T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

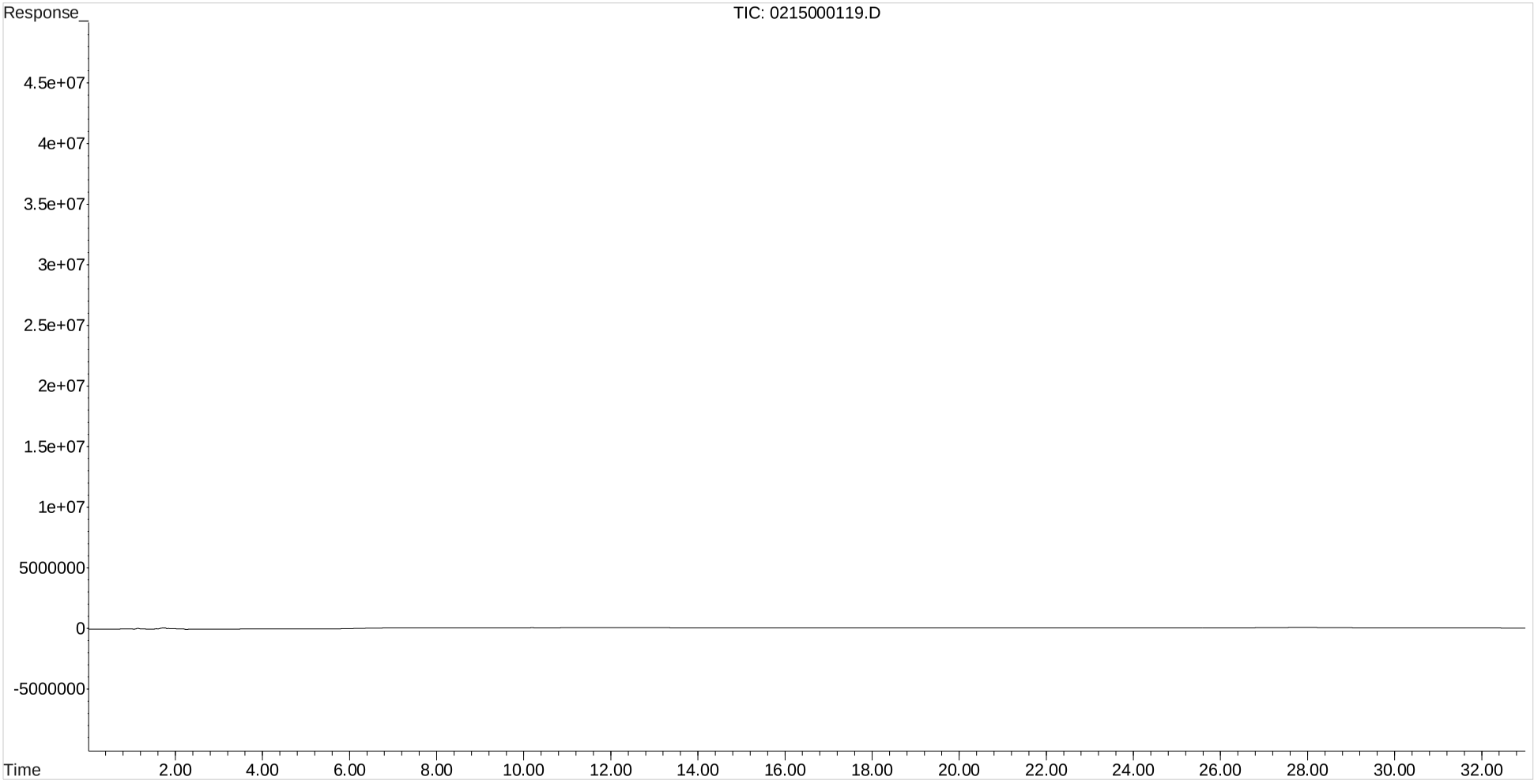
[redacted] (b) (6)
2/16/17
2/27/17

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\021517-254\0215000119.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 03:34:29 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 16 10:29:10 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Feb 16 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



11/01/2018

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012771

Exception Report

Data File: J:\LC08\DATA\021617_XC-254\0216000102.D
Lab ID: KWG1701338-1
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 02/16/2017 11:51
Date Quantitated: 02/17/2017 10:23
Batch ID: KWG1701338
Analysis Method: 8330B
MethodJoinID: MJ1278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC08\DATA\021617_XC-254\0216000102.D			**Instrument:**	LC08
Acqu Date:	02/16/2017 11:51	**Quant Date:**	02/17/2017 10:23	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1278	**Dilution:**	1.0
Lab ID:	KWG1701338-1			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/17/2017

Analysis Lot:	KWG1701338	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC08\METHOD\020917_SHORT	**Calibration ID:**	CAL15192
Title:			
		Method ID:	MJ1278
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			23-98	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0				
RDX			0**d**				
Nitrobenzene			0				
3,5-Dinitroaniline			0**d**				
4-Amino-2,6-dinitrotoluene			0				
2-Nitrotoluene			0**d**				
2-Amino-4,6-dinitrotoluene			0**d**				
3-Nitrotoluene			0**d**				
1,3-Dinitrobenzene			0				
4-Nitrotoluene			0**d**				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0**d**				
TETRYL			0**d**				
1,3,5-Trinitrobenzene			0				
2,4,6-Trinitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC08\DATA\021617_XC-254\0216000102.D			**Instrument:**	LC08
Acqu Date:	02/16/2017 11:51	**Quant Date:**	02/17/2017 10:23	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701338-1			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/17/2017

Analysis Lot:	KWG1701338	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC08\METHOD\020917_SHORT	**Calibration ID:**	CAL15192
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0				
RDX			0**d**				
Nitrobenzene			0				
3,5-Dinitroaniline			0**d**				
4-Amino-2,6-dinitrotoluene			0				
2-Nitrotoluene			0**d**				
2-Amino-4,6-dinitrotoluene			0**d**				
3-Nitrotoluene			0**d**				
1,3-Dinitrobenzene			0				
4-Nitrotoluene			0**d**				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0**d**				
TETRYL			0**d**				
1,3,5-Trinitrobenzene			0				
2,4,6-Trinitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\021617_XC-254\0216000102.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 11:51:33 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:23:32 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Feb 17 10:20:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
11) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
	Target Compounds					
1) T	HMX	0.000	0	N.D.	ug/L	
2) T	RDX	0.000	0	N.D.	ug/L	d
3) T	Nitrobenzene	0.000	0	N.D.	ug/L	
4) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L	d
5) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L	
6) T	2-NT	0.000	0	N.D.	ug/L	d
7) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L	d
8) T	3-NT	0.000	0	N.D.	ug/L	d
9) T	1,3-DNB	0.000	0	N.D.	ug/L	
10) T	4-NT	0.000	0	N.D.	ug/L	d
12) T	2,6-DNT	0.000	0	N.D.	ug/L	
13) T	2,4-DNT	0.000	0	N.D.	ug/L	d
14) T	Tetryl	0.000	0	N.D.	ug/L	d
15) T	1,3,5-TNB	0.000	0	N.D.	ug/L	
16) T	2,4,6-TNT	0.000	0	N.D.	ug/L	

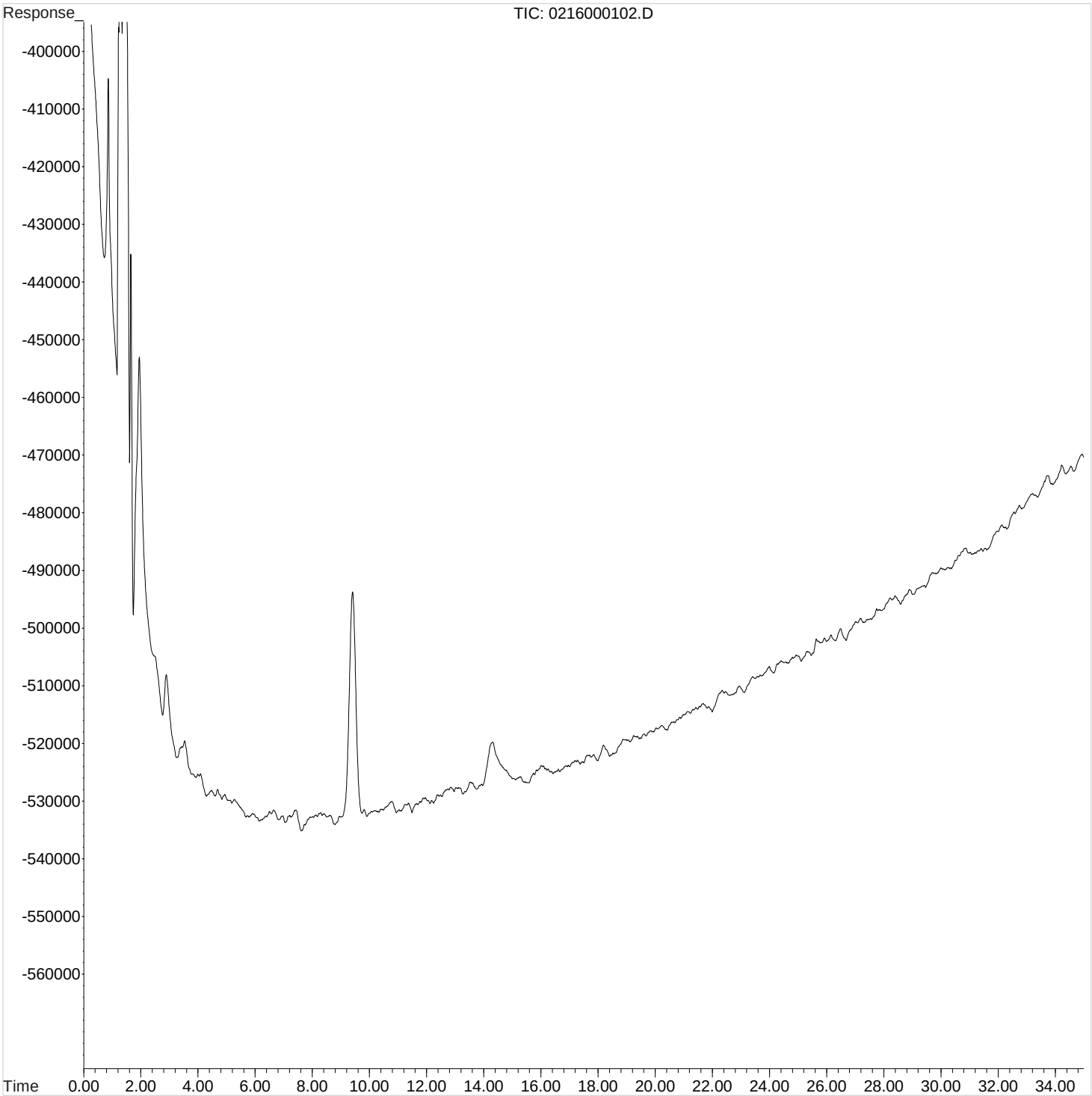
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\021617_XC-254\0216000102.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 11:51:33 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:23:32 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Feb 17 10:20:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



Exception Report

Data File: J:\LC08\DATA\021617_XC-254\0216000102.D
Lab ID: KWG1701338-1
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 02/16/2017 11:51
Date Quantitated: 02/17/2017 10:23
Batch ID: KWG1701338
Analysis Method: 8330B
MethodJoinID: MJ1278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC08\DATA\021617_XC-254\0216000102.D			**Instrument:**	LC08
Acqu Date:	02/16/2017 11:51	**Quant Date:**	02/17/2017 10:23	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1278	**Dilution:**	1.0
Lab ID:	KWG1701338-1			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/17/2017

Analysis Lot:	KWG1701338	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC08\METHOD\020917_SHORT	**Calibration ID:**	CAL15192
Title:			
		Method ID:	MJ1278
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			23-98	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0				
RDX			0**d**				
Nitrobenzene			0				
3,5-Dinitroaniline			0**d**				
4-Amino-2,6-dinitrotoluene			0				
2-Nitrotoluene			0**d**				
2-Amino-4,6-dinitrotoluene			0**d**				
3-Nitrotoluene			0**d**				
1,3-Dinitrobenzene			0				
4-Nitrotoluene			0**d**				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0**d**				
TETRYL			0**d**				
1,3,5-Trinitrobenzene			0				
2,4,6-Trinitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC08\DATA\021617_XC-254\0216000102.D			**Instrument:**	LC08
Acqu Date:	02/16/2017 11:51	**Quant Date:**	02/17/2017 10:23	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701338-1			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/17/2017

Analysis Lot:	KWG1701338	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC08\METHOD\020917_SHORT	**Calibration ID:**	CAL15192
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0				
RDX			0**d**				
Nitrobenzene			0				
3,5-Dinitroaniline			0**d**				
4-Amino-2,6-dinitrotoluene			0				
2-Nitrotoluene			0**d**				
2-Amino-4,6-dinitrotoluene			0**d**				
3-Nitrotoluene			0**d**				
1,3-Dinitrobenzene			0				
4-Nitrotoluene			0**d**				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0**d**				
TETRYL			0**d**				
1,3,5-Trinitrobenzene			0				
2,4,6-Trinitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\021617_XC-254\0216000102.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 11:51:33 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:23:32 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Feb 17 10:20:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
11) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
	Target Compounds					
1) T	HMX	0.000	0	N.D.	ug/L	
2) T	RDX	0.000	0	N.D.	ug/L	d
3) T	Nitrobenzene	0.000	0	N.D.	ug/L	
4) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L	d
5) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L	
6) T	2-NT	0.000	0	N.D.	ug/L	d
7) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L	d
8) T	3-NT	0.000	0	N.D.	ug/L	d
9) T	1,3-DNB	0.000	0	N.D.	ug/L	
10) T	4-NT	0.000	0	N.D.	ug/L	d
12) T	2,6-DNT	0.000	0	N.D.	ug/L	
13) T	2,4-DNT	0.000	0	N.D.	ug/L	d
14) T	Tetryl	0.000	0	N.D.	ug/L	d
15) T	1,3,5-TNB	0.000	0	N.D.	ug/L	
16) T	2,4,6-TNT	0.000	0	N.D.	ug/L	

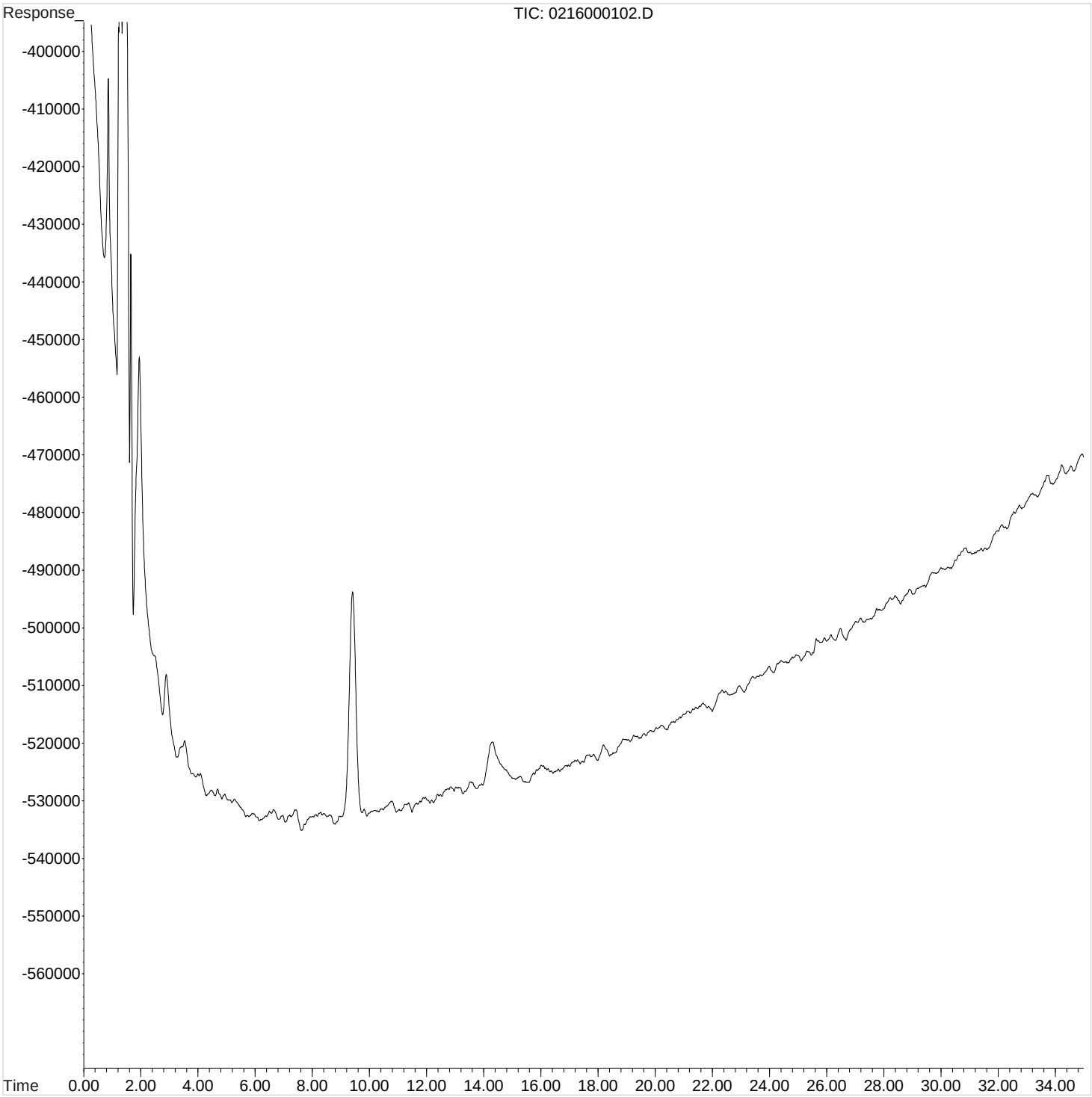
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\021617_XC-254\0216000102.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 11:51:33 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:23:32 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Feb 17 10:20:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



Exception Report

Data File: J:\LC08\DATA\021617_XC-254\0216000111.D
Lab ID: KWG1701338-3
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 02/16/2017 17:23
Date Quantitated: 02/17/2017 10:29
Batch ID: KWG1701338
Analysis Method: 8330B
MethodJoinID: MJ1278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC08\DATA\021617_XC-254\0216000111.D			**Instrument:**	LC08
Acqu Date:	02/16/2017 17:23	**Quant Date:**	02/17/2017 10:29	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1278	**Dilution:**	1.0
Lab ID:	KWG1701338-3			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/17/2017

Analysis Lot:	KWG1701338	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC08\METHOD\020917_SHORT	**Calibration ID:**	CAL15192
Title:			
		Method ID:	MJ1278
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			23-98	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0				
RDX	2.80		94337**m**	5.07			
Nitrobenzene			0				
3,5-Dinitroaniline			0**d**				
4-Amino-2,6-dinitrotoluene			0**d**				
2-Nitrotoluene			0**d**				
2-Amino-4,6-dinitrotoluene			0**d**				
3-Nitrotoluene			0**d**				
1,3-Dinitrobenzene			0				
4-Nitrotoluene			0**d**				
2,6-Dinitrotoluene			0**d**				
2,4-Dinitrotoluene			0**d**				
TETRYL			0**d**				
1,3,5-Trinitrobenzene			0				
2,4,6-Trinitrotoluene			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC08\DATA\021617_XC-254\0216000111.D			**Instrument:**	LC08
Acqu Date:	02/16/2017 17:23	**Quant Date:**	02/17/2017 10:29	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701338-3			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/17/2017

Analysis Lot:	KWG1701338	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC08\METHOD\020917_SHORT	**Calibration ID:**	CAL15192
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0				
RDX	2.80		94337**m**	5.07			
Nitrobenzene			0				
3,5-Dinitroaniline			0**d**				
4-Amino-2,6-dinitrotoluene			0**d**				
2-Nitrotoluene			0**d**				
2-Amino-4,6-dinitrotoluene			0**d**				
3-Nitrotoluene			0**d**				
1,3-Dinitrobenzene			0				
4-Nitrotoluene			0**d**				
2,6-Dinitrotoluene			0**d**				
2,4-Dinitrotoluene			0**d**				
TETRYL			0**d**				
1,3,5-Trinitrobenzene			0				
2,4,6-Trinitrotoluene			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\021617_XC-254\0216000111.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 17:23:24 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:29:39 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Feb 17 10:20:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
11) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
	Target Compounds					
1) T	HMX	0.000	0	N.D.	ug/L	
2) T	RDX	2.800	94337	5.072	ug/L	m
3) T	Nitrobenzene	0.000	0	N.D.	ug/L	
4) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L	d
5) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L	d
6) T	2-NT	0.000	0	N.D.	ug/L	d
7) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L	d
8) T	3-NT	0.000	0	N.D.	ug/L	d
9) T	1,3-DNB	0.000	0	N.D.	ug/L	
10) T	4-NT	0.000	0	N.D.	ug/L	d
12) T	2,6-DNT	0.000	0	N.D.	ug/L	d
13) T	2,4-DNT	0.000	0	N.D.	ug/L	d
14) T	Tetryl	0.000	0	N.D.	ug/L	d
15) T	1,3,5-TNB	0.000	0	N.D.	ug/L	
16) T	2,4,6-TNT	0.000	0	N.D.	ug/L	d

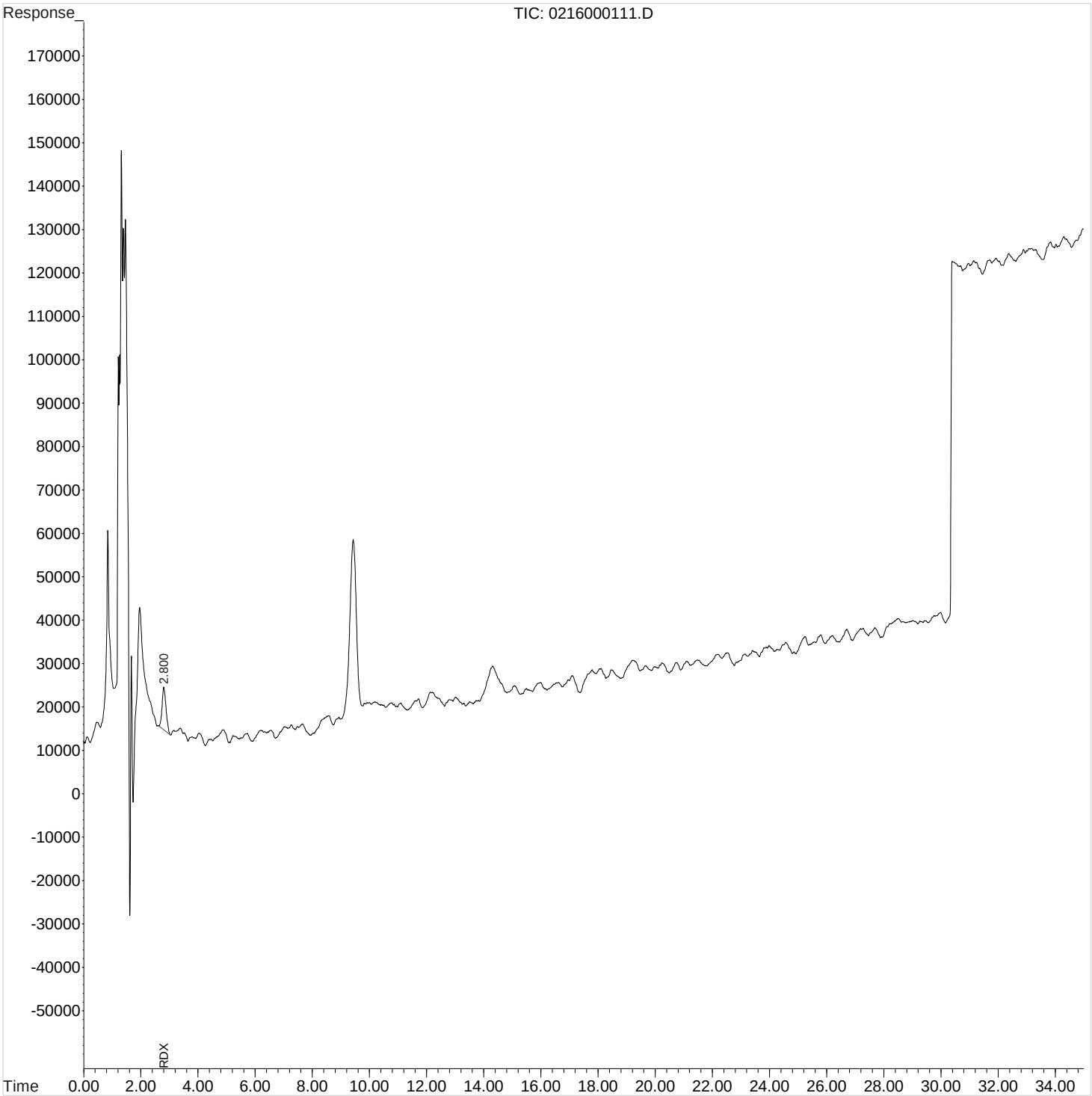
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\021617_XC-254\0216000111.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 17:23:24 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:29:39 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Feb 17 10:20:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

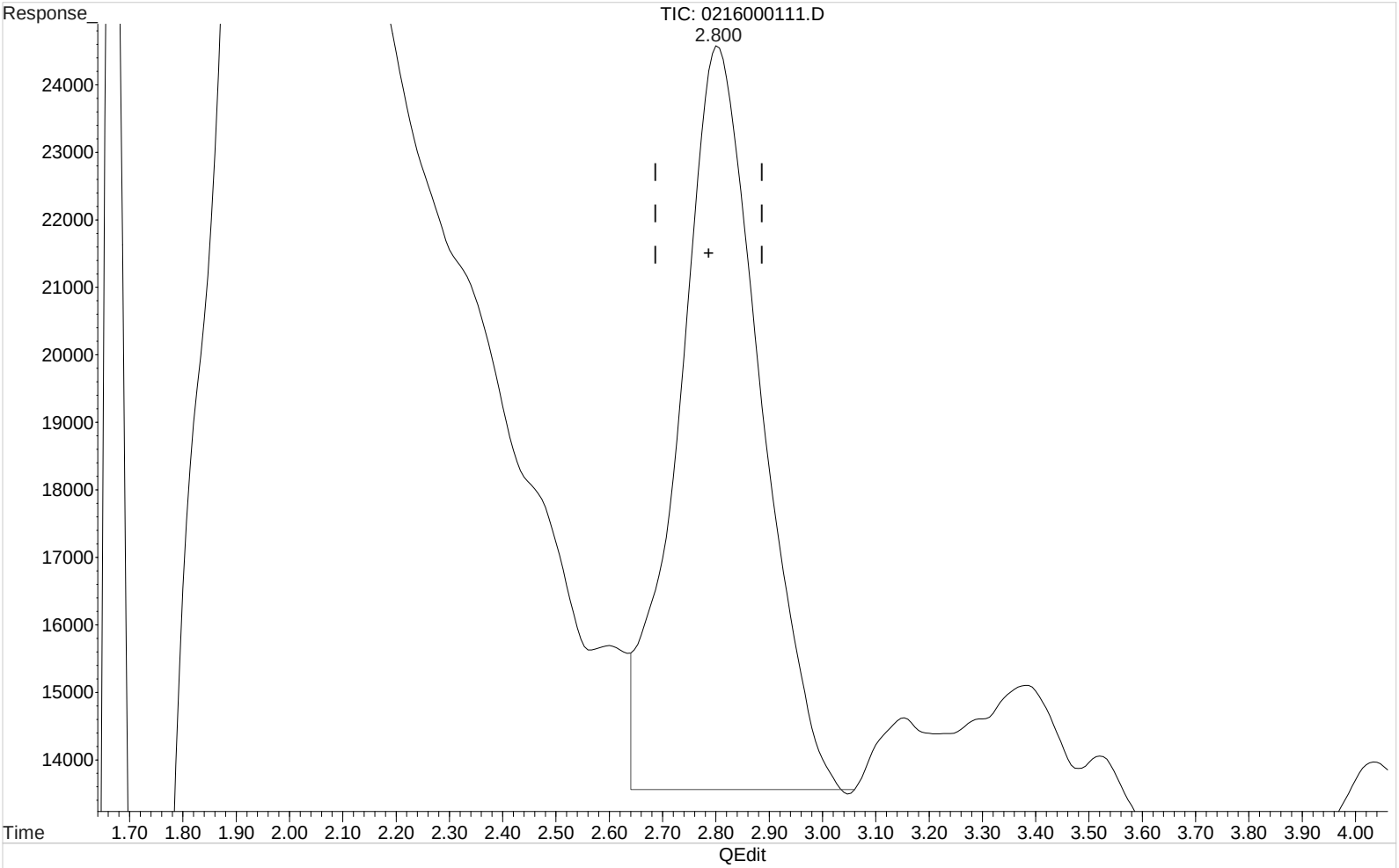


Quantitation Report (Qedit)

Data File : J:\LC08\Data\021617_XC-254\0216000111.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 17:23:24 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:20:58 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Feb 17 10:20:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.800min 6.318 ug/L

response 117526

Manual Integration:

Before

02/17/17

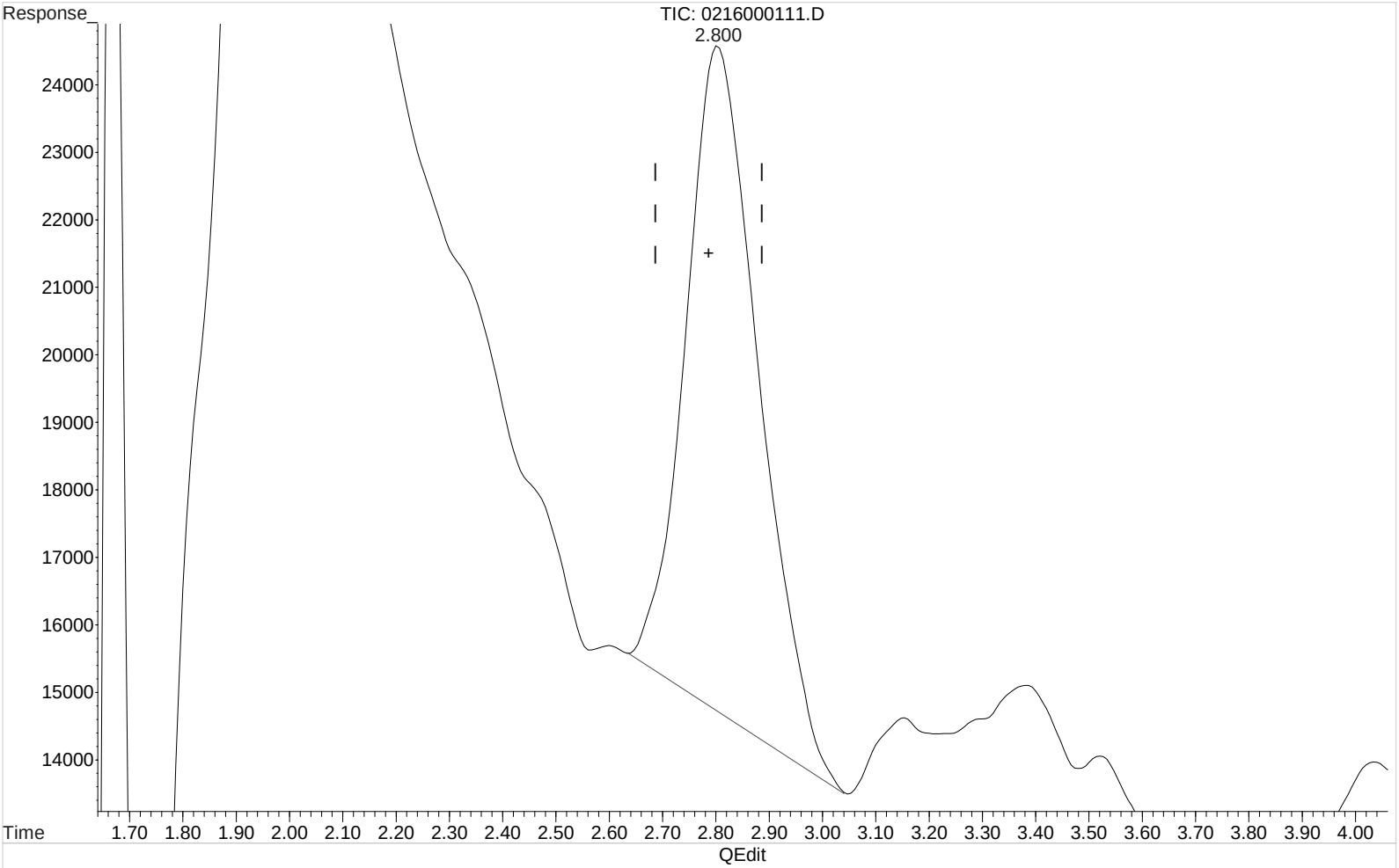
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\021617_XC-254\0216000111.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 17:23:24 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:20:58 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Feb 17 10:20:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.800min 5.072 ug/L m

response 94337

Manual Integration:

After

BLC

02/17/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC08\DATA\021617_XC-254\0216000111.D
Lab ID: KWG1701338-3
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 02/16/2017 17:23
Date Quantitated: 02/17/2017 10:29
Batch ID: KWG1701338
Analysis Method: 8330B
MethodJoinID: MJ1278

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC08\DATA\021617_XC-254\0216000111.D			**Instrument:**	LC08
Acqu Date:	02/16/2017 17:23	**Quant Date:**	02/17/2017 10:29	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1278	**Dilution:**	1.0
Lab ID:	KWG1701338-3			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/17/2017

Analysis Lot:	KWG1701338	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC08\METHOD\020917_SHORT	**Calibration ID:**	CAL15192
Title:			
		Method ID:	MJ1278
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			23-98	NA	

Target Compounds

Final Conc. Units: ug/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0				
RDX	2.80		94337**m**	5.07			
Nitrobenzene			0				
3,5-Dinitroaniline			0**d**				
4-Amino-2,6-dinitrotoluene			0**d**				
2-Nitrotoluene			0**d**				
2-Amino-4,6-dinitrotoluene			0**d**				
3-Nitrotoluene			0**d**				
1,3-Dinitrobenzene			0				
4-Nitrotoluene			0**d**				
2,6-Dinitrotoluene			0**d**				
2,4-Dinitrotoluene			0**d**				
TETRYL			0**d**				
1,3,5-Trinitrobenzene			0				
2,4,6-Trinitrotoluene			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC08\DATA\021617_XC-254\0216000111.D			**Instrument:**	LC08
Acqu Date:	02/16/2017 17:23	**Quant Date:**	02/17/2017 10:29	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701338-3			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	02/17/2017

Analysis Lot:	KWG1701338	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC08\METHOD\020917_SHORT	**Calibration ID:**	CAL15192
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0				
RDX	2.80		94337**m**	5.07			
Nitrobenzene			0				
3,5-Dinitroaniline			0**d**				
4-Amino-2,6-dinitrotoluene			0**d**				
2-Nitrotoluene			0**d**				
2-Amino-4,6-dinitrotoluene			0**d**				
3-Nitrotoluene			0**d**				
1,3-Dinitrobenzene			0				
4-Nitrotoluene			0**d**				
2,6-Dinitrotoluene			0**d**				
2,4-Dinitrotoluene			0**d**				
TETRYL			0**d**				
1,3,5-Trinitrobenzene			0				
2,4,6-Trinitrotoluene			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\021617_XC-254\0216000111.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 17:23:24 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:29:39 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Feb 17 10:20:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
11) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
	Target Compounds					
1) T	HMX	0.000	0	N.D.	ug/L	
2) T	RDX	2.800	94337	5.072	ug/L	m
3) T	Nitrobenzene	0.000	0	N.D.	ug/L	
4) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L	d
5) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L	d
6) T	2-NT	0.000	0	N.D.	ug/L	d
7) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L	d
8) T	3-NT	0.000	0	N.D.	ug/L	d
9) T	1,3-DNB	0.000	0	N.D.	ug/L	
10) T	4-NT	0.000	0	N.D.	ug/L	d
12) T	2,6-DNT	0.000	0	N.D.	ug/L	d
13) T	2,4-DNT	0.000	0	N.D.	ug/L	d
14) T	Tetryl	0.000	0	N.D.	ug/L	d
15) T	1,3,5-TNB	0.000	0	N.D.	ug/L	
16) T	2,4,6-TNT	0.000	0	N.D.	ug/L	d

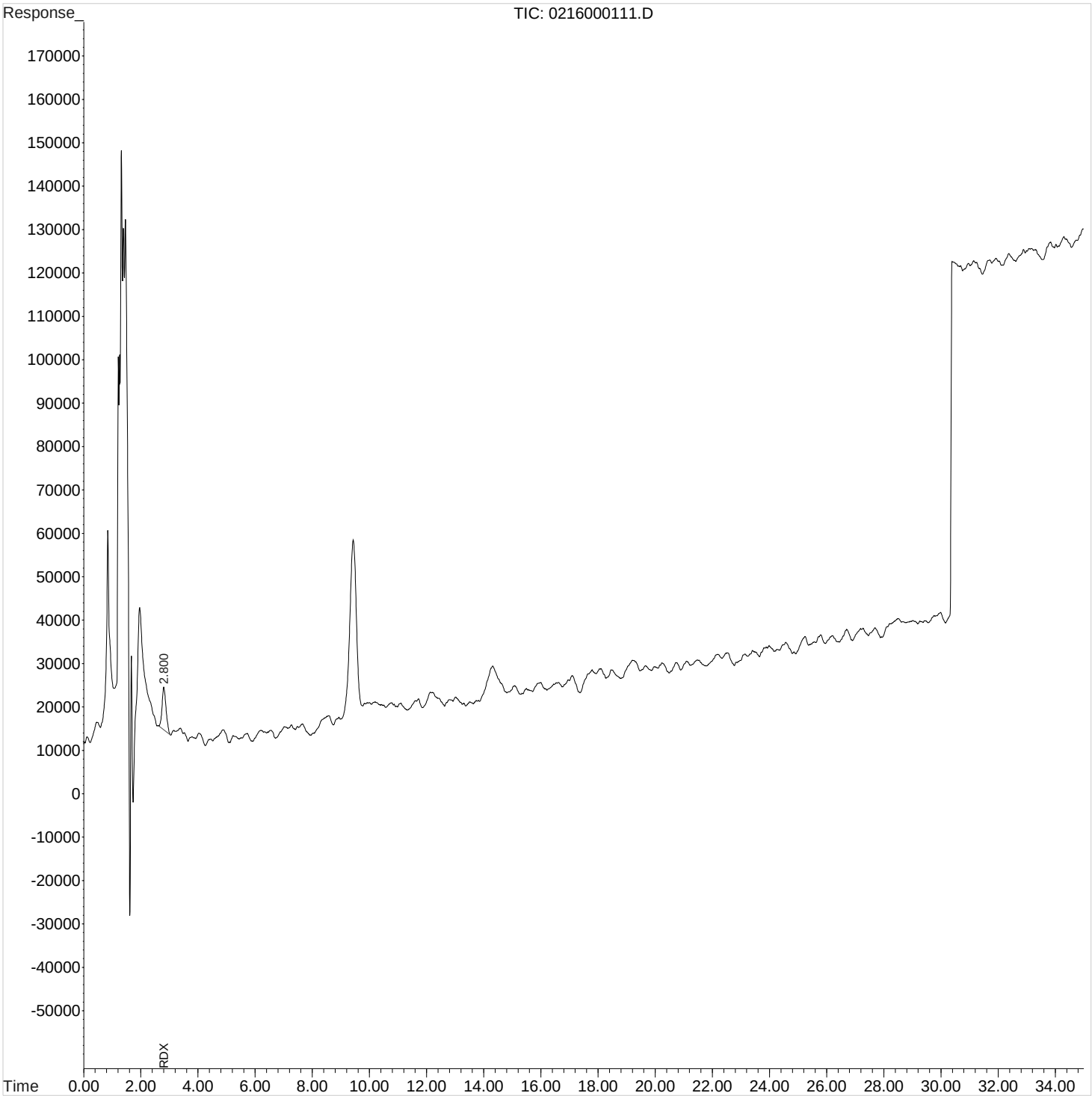
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\021617_XC-254\0216000111.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 17:23:24 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:29:39 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Feb 17 10:20:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(b) (6)

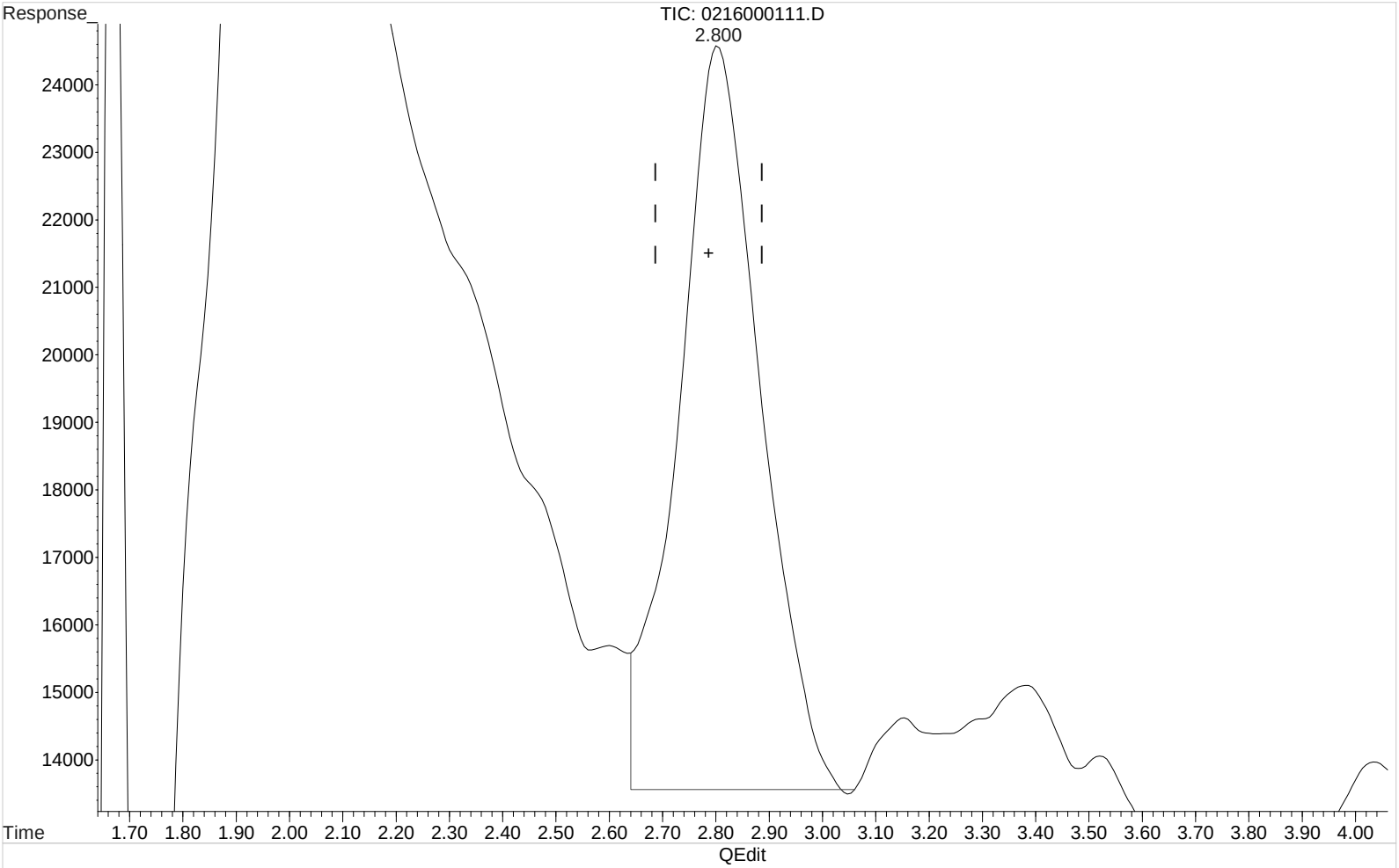
02/17/17

02/27/17

Data File : J:\LC08\Data\021617_XC-254\0216000111.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 17:23:24 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:20:58 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Feb 17 10:20:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.800min 6.318 ug/L

response 117526

Manual Integration:

Before

02/17/17

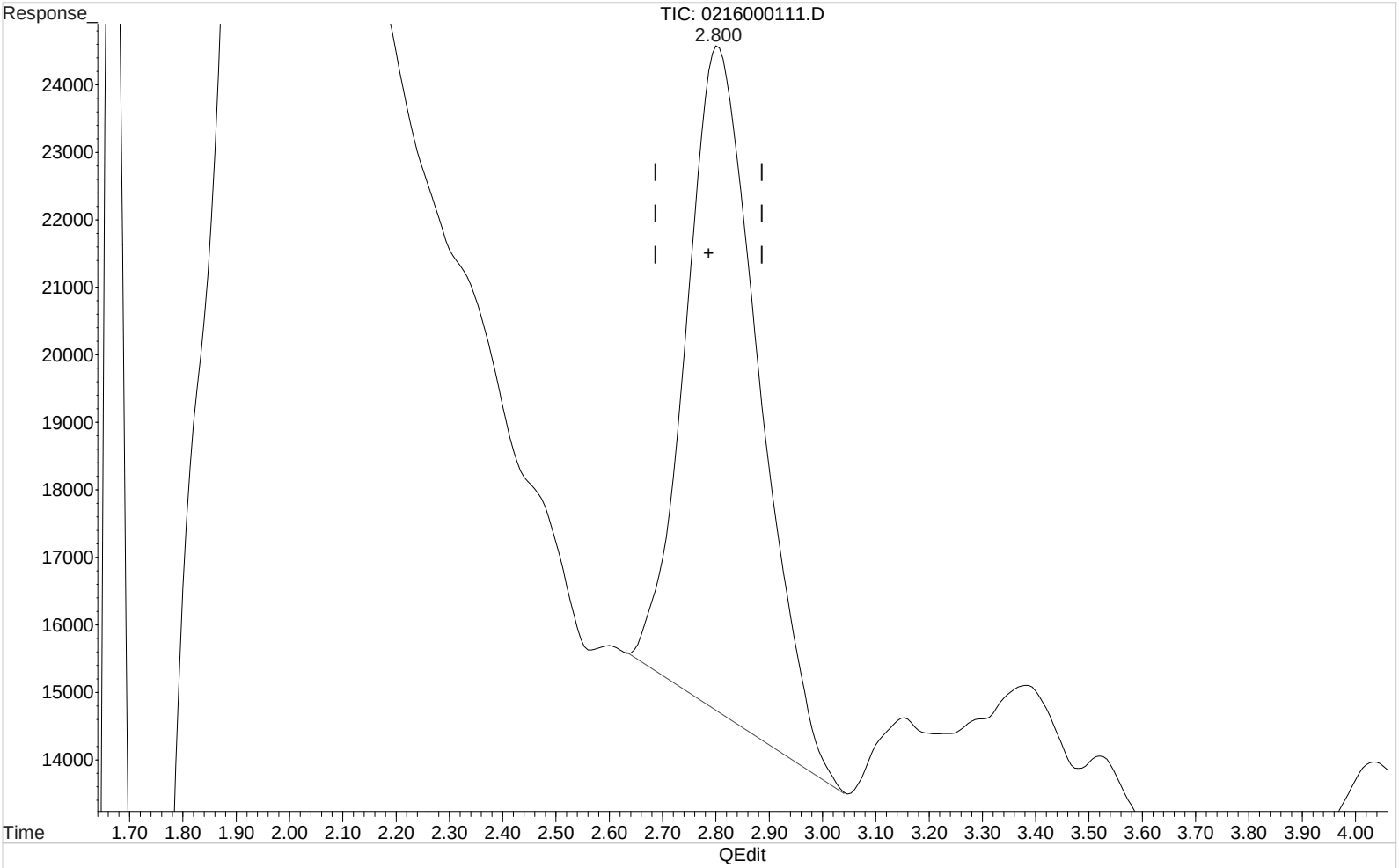
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\021617_XC-254\0216000111.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 16-Feb-2017, 17:23:24 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 17 10:20:58 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Feb 17 10:20:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.800min 5.072 ug/L m

response 94337

Manual Integration:

After

BLC

02/17/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000235.
Lab ID: KWG1701858-10
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 08:31
Date Quantitated: 03/06/2017 16:15
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000235.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 08:31	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-10			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000235.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 08:31	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701858-10			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000235.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 08:31	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-10			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000235.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 08:31:51 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:29 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	0.000	0	N.D.	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	0.000	0	N.D.	ug/L
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L
6)	T	1,3-DNB	0.000	0	N.D.	ug/L
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8)	T	Tetryl	0.000	0	N.D.	ug/L
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13)	T	2,6-DNT	0.000	0	N.D.	ug/L
14)	T	2,4-DNT	0.000	0	N.D.	ug/L
15)	T	2-NT	0.000	0	N.D.	ug/L
16)	T	4-NT	0.000	0	N.D.	ug/L
17)	T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

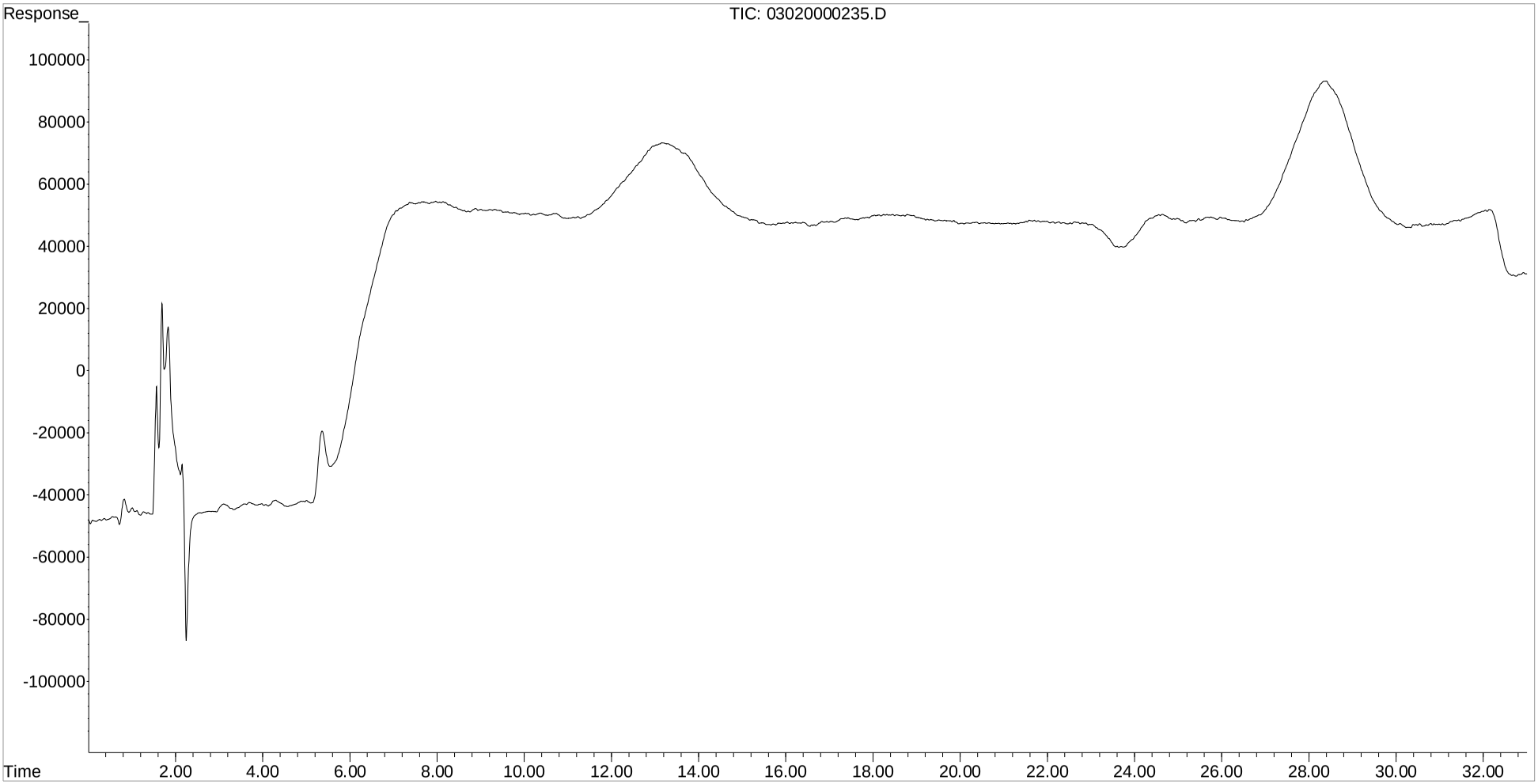
Quantitation Report (QT Reviewed)

[redacted] /14/17
/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000235.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 08:31:51 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:29 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



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Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000235.
Lab ID: KWG1701858-10
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 08:31
Date Quantitated: 03/06/2017 16:15
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000235.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 08:31	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-10			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000235.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 08:31	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701858-10			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000235.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 08:31	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-10			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000235.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 08:31:51 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:29 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	0.000	0	N.D.	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	0.000	0	N.D.	ug/L
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L
6)	T	1,3-DNB	0.000	0	N.D.	ug/L
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8)	T	Tetryl	0.000	0	N.D.	ug/L
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13)	T	2,6-DNT	0.000	0	N.D.	ug/L
14)	T	2,4-DNT	0.000	0	N.D.	ug/L
15)	T	2-NT	0.000	0	N.D.	ug/L
16)	T	4-NT	0.000	0	N.D.	ug/L
17)	T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

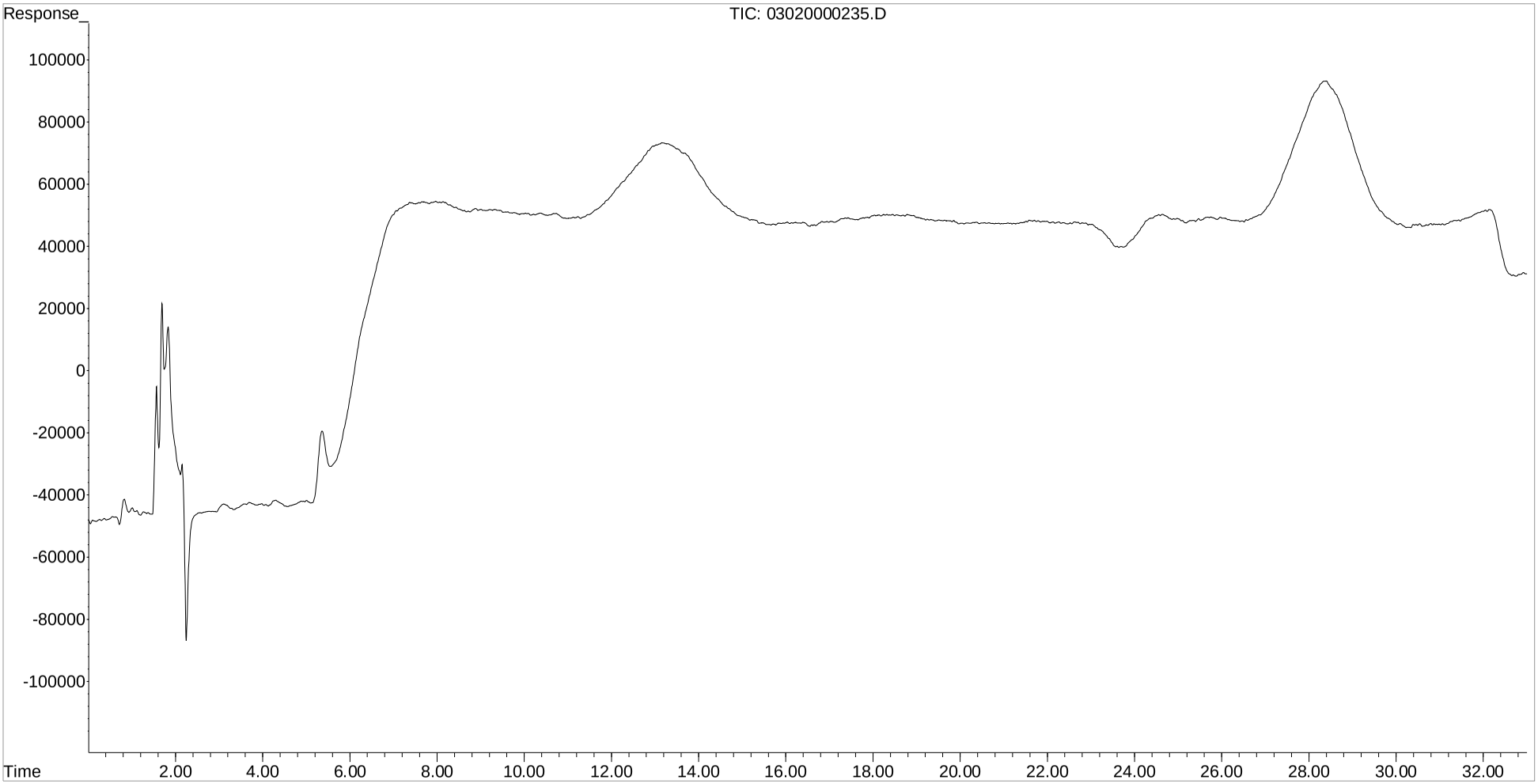
Quantitation Report (QT Reviewed)

[redacted] 03/14/17
03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000235.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 08:31:51 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:29 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000235.
Lab ID: KWG1701858-10
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 08:31
Date Quantitated: 03/06/2017 16:15
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000235.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 08:31	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-10			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000235.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 08:31	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701858-10			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000235.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 08:31	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-10			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000235.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 08:31:51 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:29 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	0.000	0	N.D.	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	0.000	0	N.D.	ug/L
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L
6)	T	1,3-DNB	0.000	0	N.D.	ug/L
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8)	T	Tetryl	0.000	0	N.D.	ug/L
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13)	T	2,6-DNT	0.000	0	N.D.	ug/L
14)	T	2,4-DNT	0.000	0	N.D.	ug/L
15)	T	2-NT	0.000	0	N.D.	ug/L
16)	T	4-NT	0.000	0	N.D.	ug/L
17)	T	3-NT	0.000	0	N.D.	ug/L

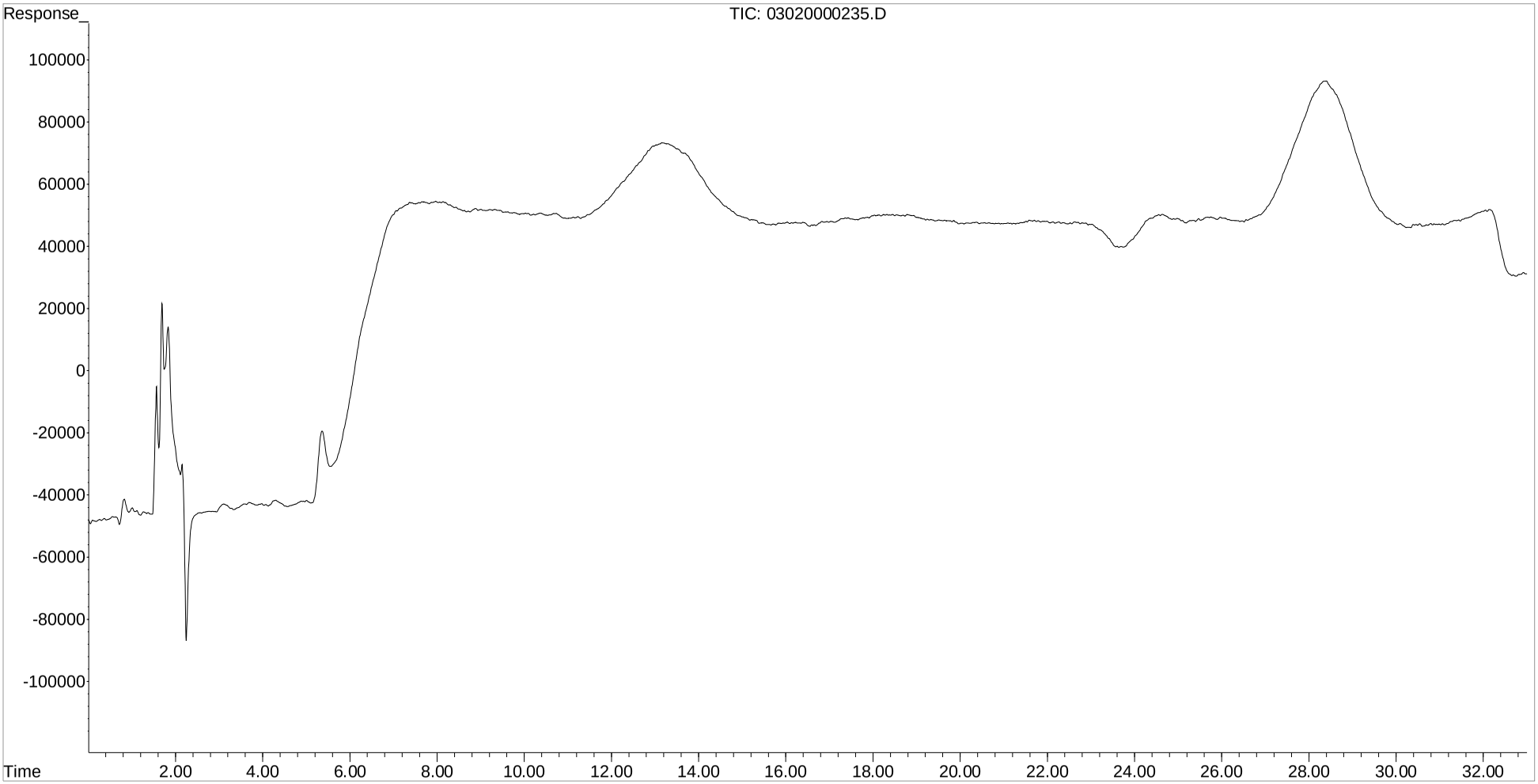
(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)
03/14/17
03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000235.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 08:31:51 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:29 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



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012813

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000235.
Lab ID: KWG1701858-10
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 08:31
Date Quantitated: 03/06/2017 16:15
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000235.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 08:31	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-10			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000235.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 08:31	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701858-10			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000235.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 08:31	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-10			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000235.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 08:31:51 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:29 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	0.000	0	N.D.	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	0.000	0	N.D.	ug/L
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L
6)	T	1,3-DNB	0.000	0	N.D.	ug/L
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8)	T	Tetryl	0.000	0	N.D.	ug/L
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13)	T	2,6-DNT	0.000	0	N.D.	ug/L
14)	T	2,4-DNT	0.000	0	N.D.	ug/L
15)	T	2-NT	0.000	0	N.D.	ug/L
16)	T	4-NT	0.000	0	N.D.	ug/L
17)	T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

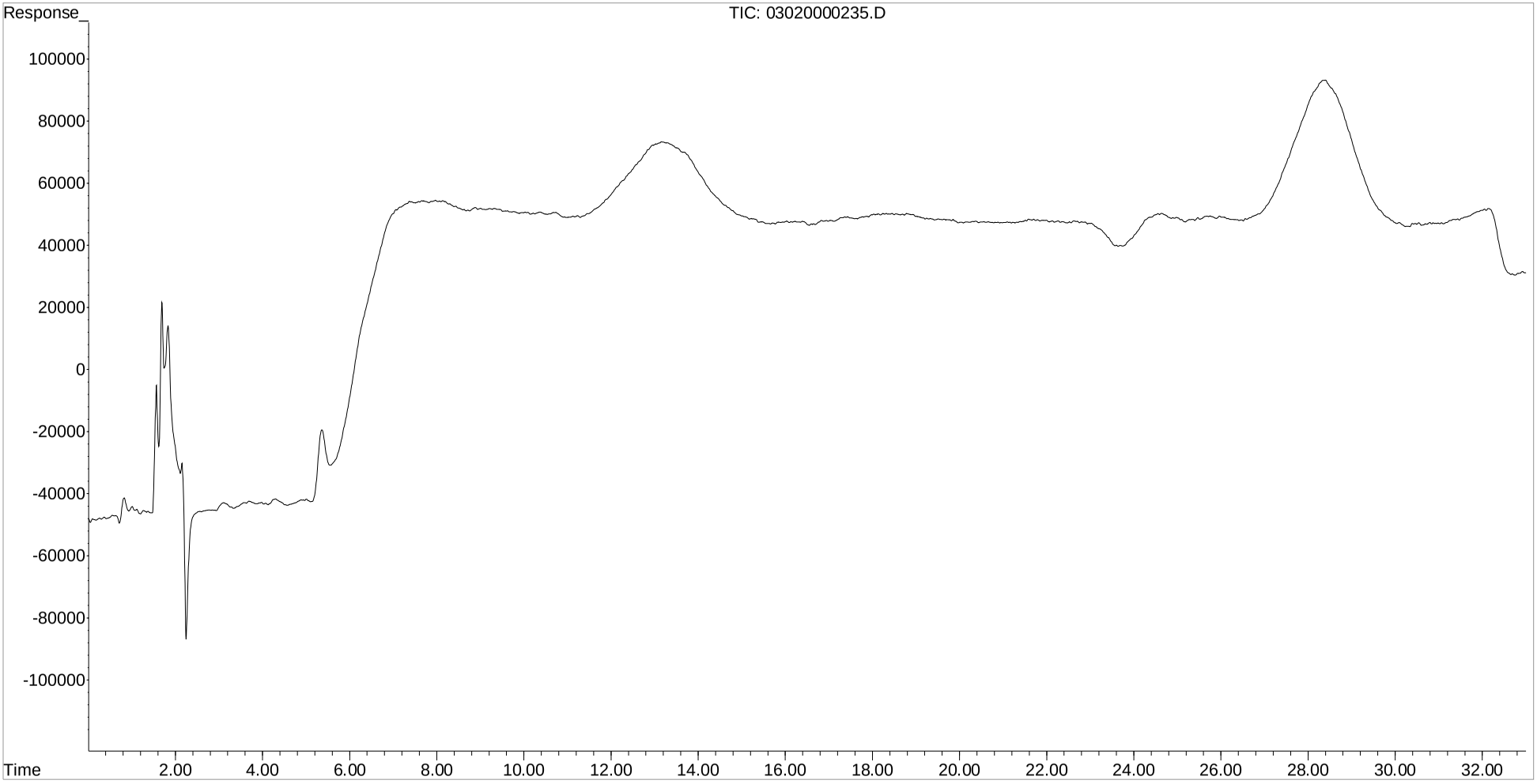
[redacted] 03/14/17
(g) (g) 03/29/17

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000235.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 08:31:51 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:29 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



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012819

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000235.
Lab ID: KWG1701858-10
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 08:31
Date Quantitated: 03/06/2017 16:15
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000235.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 08:31	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-10			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000235.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 08:31	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701858-10			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000235.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 08:31	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-10			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000235.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 08:31:51 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:29 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	0.000	0	N.D.	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	0.000	0	N.D.	ug/L
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L
6)	T	1,3-DNB	0.000	0	N.D.	ug/L
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8)	T	Tetryl	0.000	0	N.D.	ug/L
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13)	T	2,6-DNT	0.000	0	N.D.	ug/L
14)	T	2,4-DNT	0.000	0	N.D.	ug/L
15)	T	2-NT	0.000	0	N.D.	ug/L
16)	T	4-NT	0.000	0	N.D.	ug/L
17)	T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

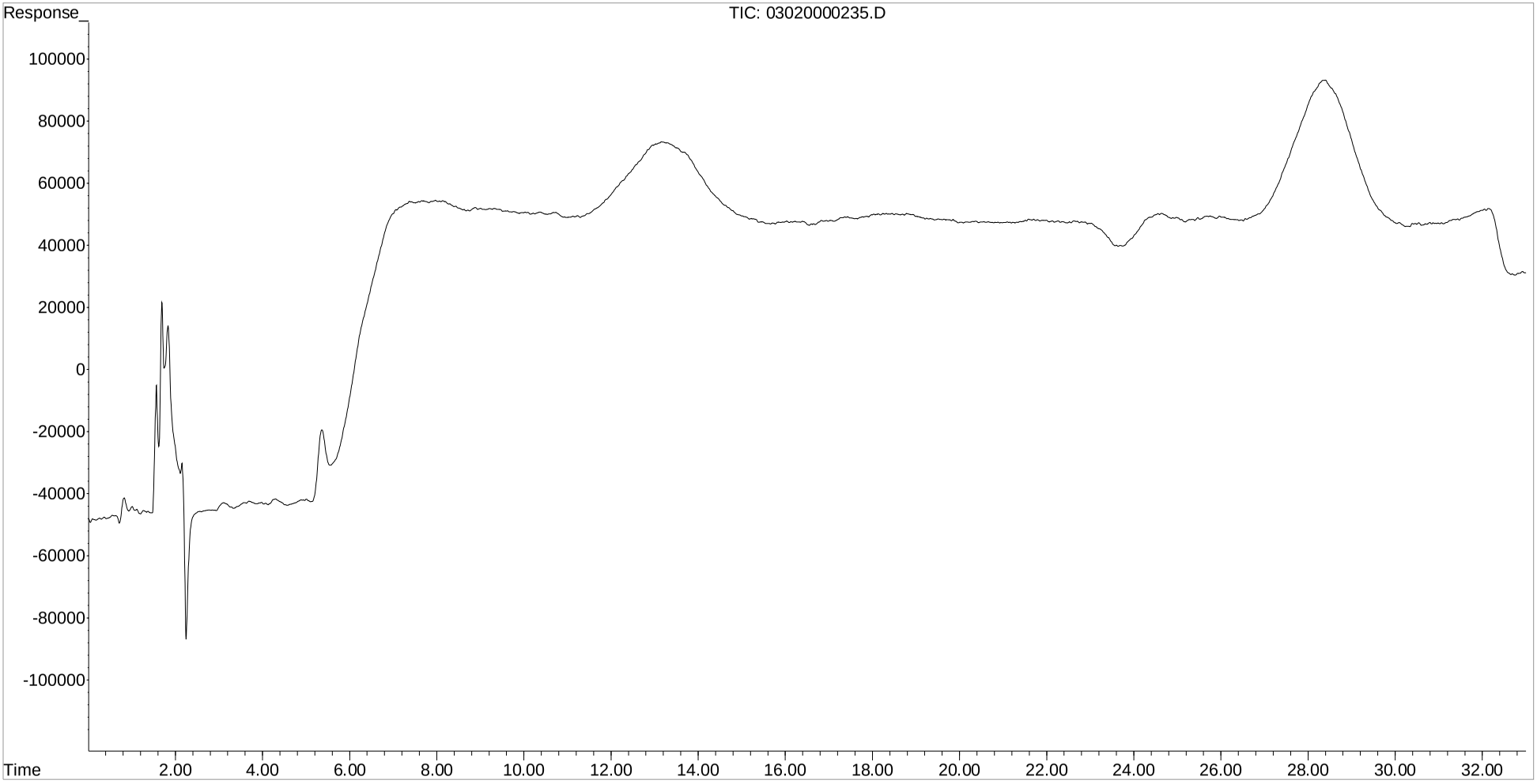
(b) (6)
03/14/17
03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000235.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 08:31:51 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:29 2017
Quant Results File: 120716_8330B@254.RES

11/01/2018

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



012825

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000235.
Lab ID: KWG1701858-10
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 08:31
Date Quantitated: 03/06/2017 16:15
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000235.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 08:31	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-10			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000235.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 08:31	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701858-10			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000235.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 08:31	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-10			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000235.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 08:31:51 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:29 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
18) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
	Target Compounds				
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2) T	HMX	0.000	0	N.D.	ug/L
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4) T	RDX	0.000	0	N.D.	ug/L
5) T	1,3,5-TNB	0.000	0	N.D.	ug/L
6) T	1,3-DNB	0.000	0	N.D.	ug/L
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8) T	Tetryl	0.000	0	N.D.	ug/L
9) T	Nitrobenzene	0.000	0	N.D.	ug/L
10) T	2,4,6-TNT	0.000	0	N.D.	ug/L
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13) T	2,6-DNT	0.000	0	N.D.	ug/L
14) T	2,4-DNT	0.000	0	N.D.	ug/L
15) T	2-NT	0.000	0	N.D.	ug/L
16) T	4-NT	0.000	0	N.D.	ug/L
17) T	3-NT	0.000	0	N.D.	ug/L

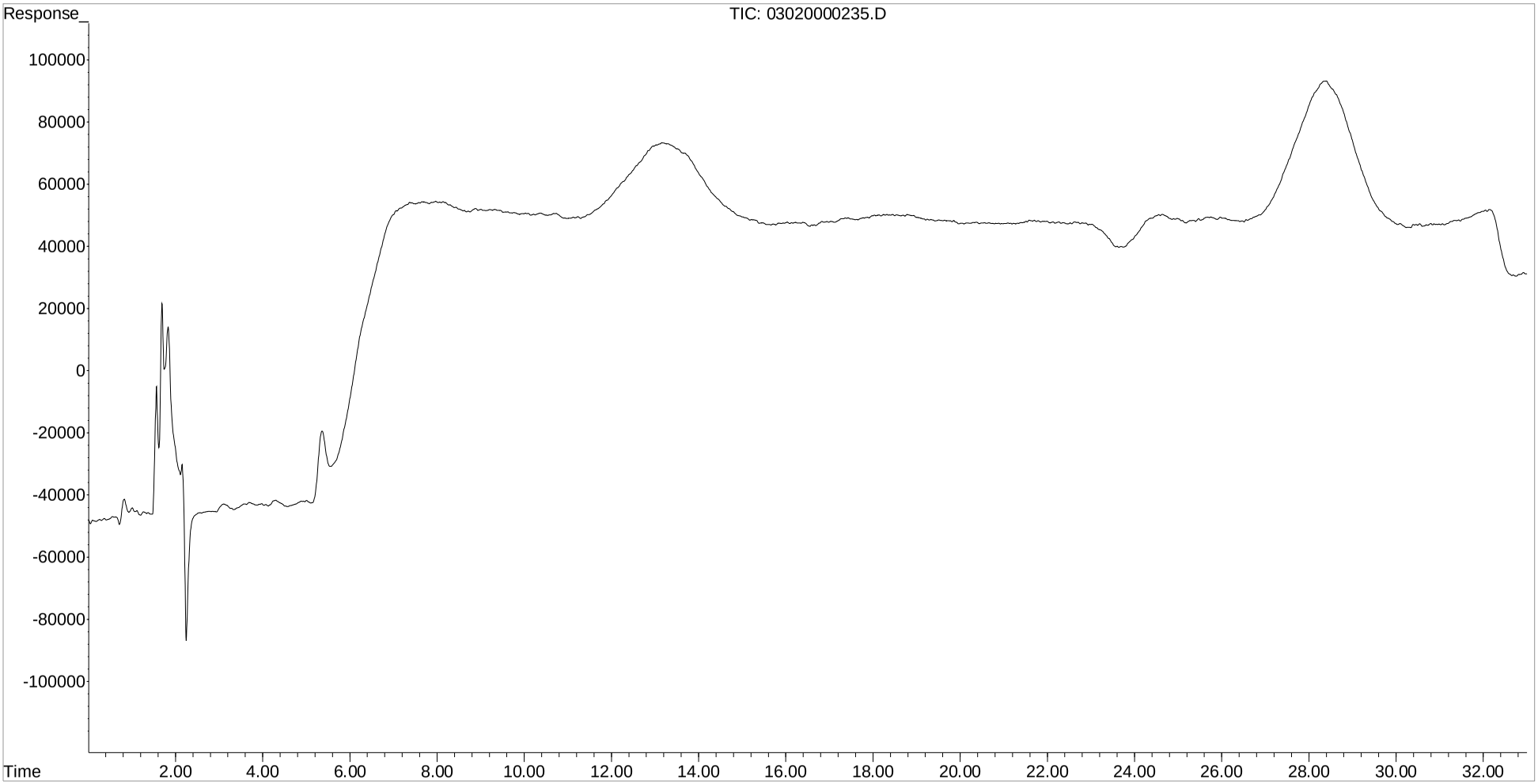
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000235.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 08:31:51 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:29 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000246.
Lab ID: KWG1701858-12
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 15:10
Date Quantitated: 03/06/2017 16:15
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000246.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 15:10	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-12			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene	25.58		132409	7.37			
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000246.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 15:10	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-12			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene	25.58		132409	7.37			
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000246.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 15:10:23 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:51 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	0.000	0	N.D.	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	0.000	0	N.D.	ug/L
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L
6)	T	1,3-DNB	0.000	0	N.D.	ug/L
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8)	T	Tetryl	0.000	0	N.D.	ug/L
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13)	T	2,6-DNT	0.000	0	N.D.	ug/L
14)	T	2,4-DNT	0.000	0	N.D.	ug/L
15)	T	2-NT	25.583f	132409	7.370	ug/L
16)	T	4-NT	0.000	0	N.D.	ug/L
17)	T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] 03/14/17
(g) (g) 03/29/17

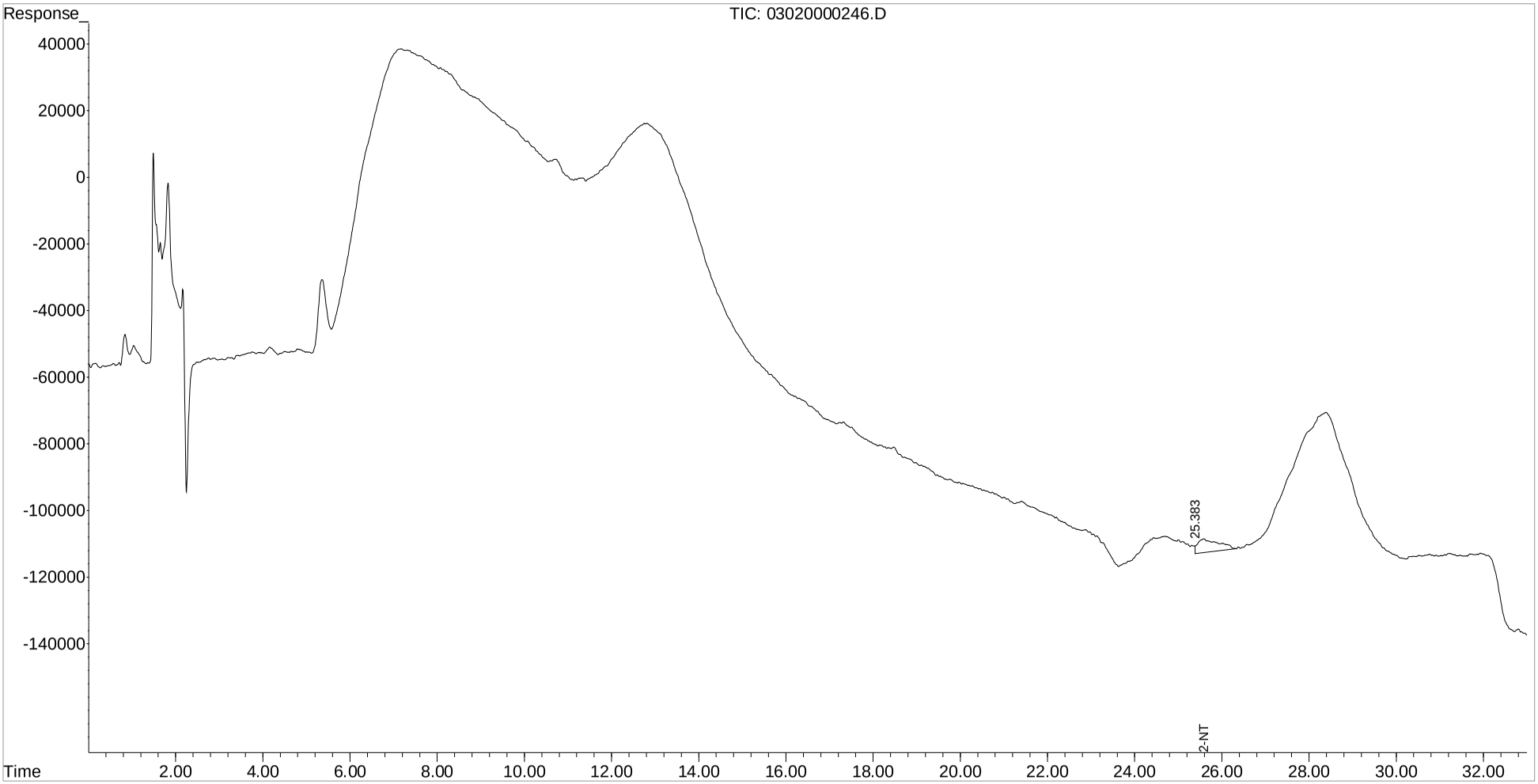
11/01/2018

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000246.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 15:10:23 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:51 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



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012836

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000246.
Lab ID: KWG1701858-12
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 15:10
Date Quantitated: 03/06/2017 16:15
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000246.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 15:10	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-12			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene	25.58		132409	7.37			
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000246.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 15:10	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-12			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene	25.58		132409	7.37			
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000246.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 15:10:23 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:51 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	0.000	0	N.D.	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	0.000	0	N.D.	ug/L
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L
6)	T	1,3-DNB	0.000	0	N.D.	ug/L
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8)	T	Tetryl	0.000	0	N.D.	ug/L
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13)	T	2,6-DNT	0.000	0	N.D.	ug/L
14)	T	2,4-DNT	0.000	0	N.D.	ug/L
15)	T	2-NT	25.583f	132409	7.370	ug/L
16)	T	4-NT	0.000	0	N.D.	ug/L
17)	T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] (6) (6) 3/14/17
3/29/17

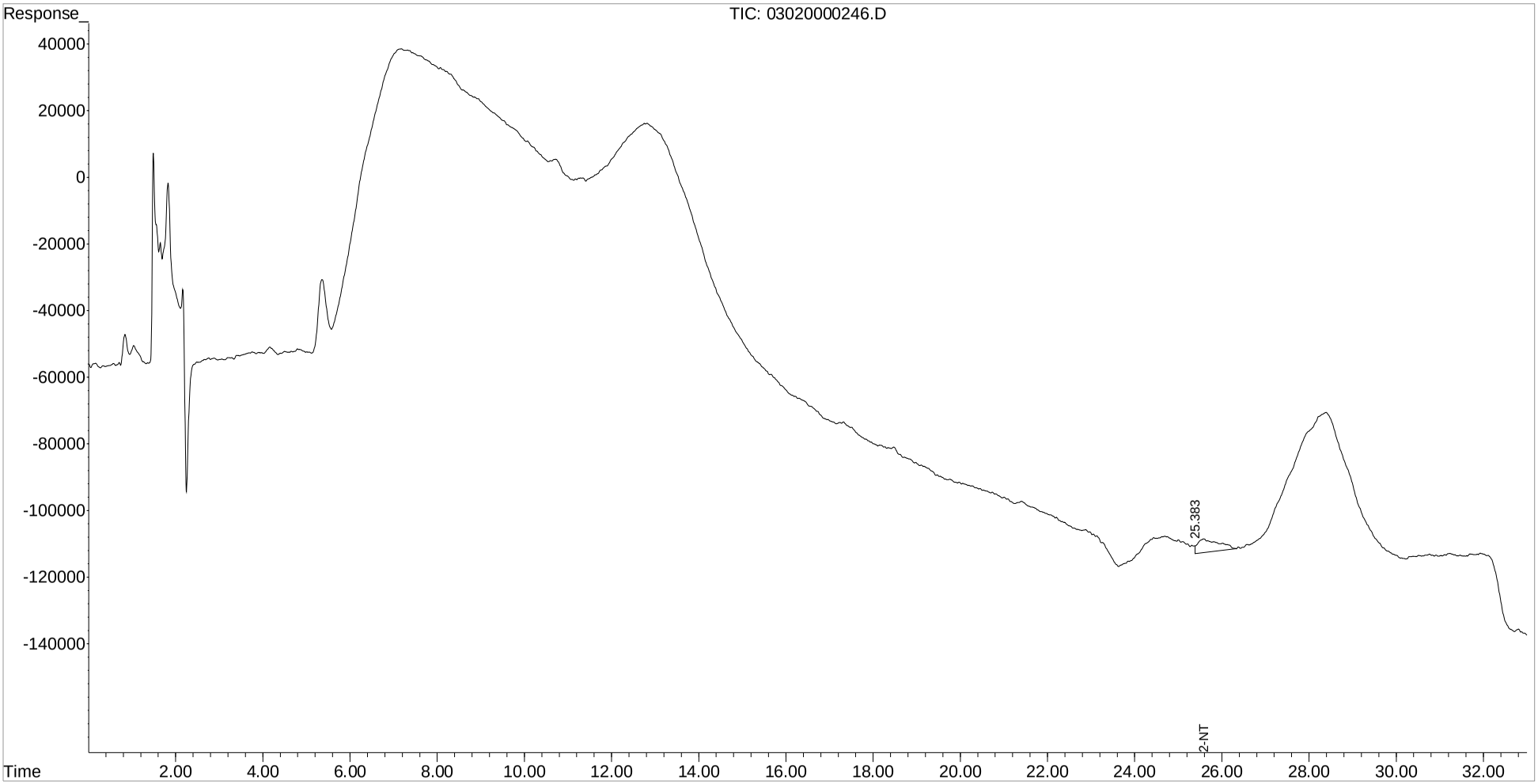
11/01/2018

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000246.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 15:10:23 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:51 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



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Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000246.
Lab ID: KWG1701858-12
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 15:10
Date Quantitated: 03/06/2017 16:15
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000246.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 15:10	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-12			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene	25.58		132409	7.37			
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000246.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 15:10	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-12			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene	25.58		132409	7.37			
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000246.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 15:10:23 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:51 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	0.000	0	N.D.	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	0.000	0	N.D.	ug/L
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L
6)	T	1,3-DNB	0.000	0	N.D.	ug/L
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8)	T	Tetryl	0.000	0	N.D.	ug/L
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13)	T	2,6-DNT	0.000	0	N.D.	ug/L
14)	T	2,4-DNT	0.000	0	N.D.	ug/L
15)	T	2-NT	25.583f	132409	7.370	ug/L
16)	T	4-NT	0.000	0	N.D.	ug/L
17)	T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

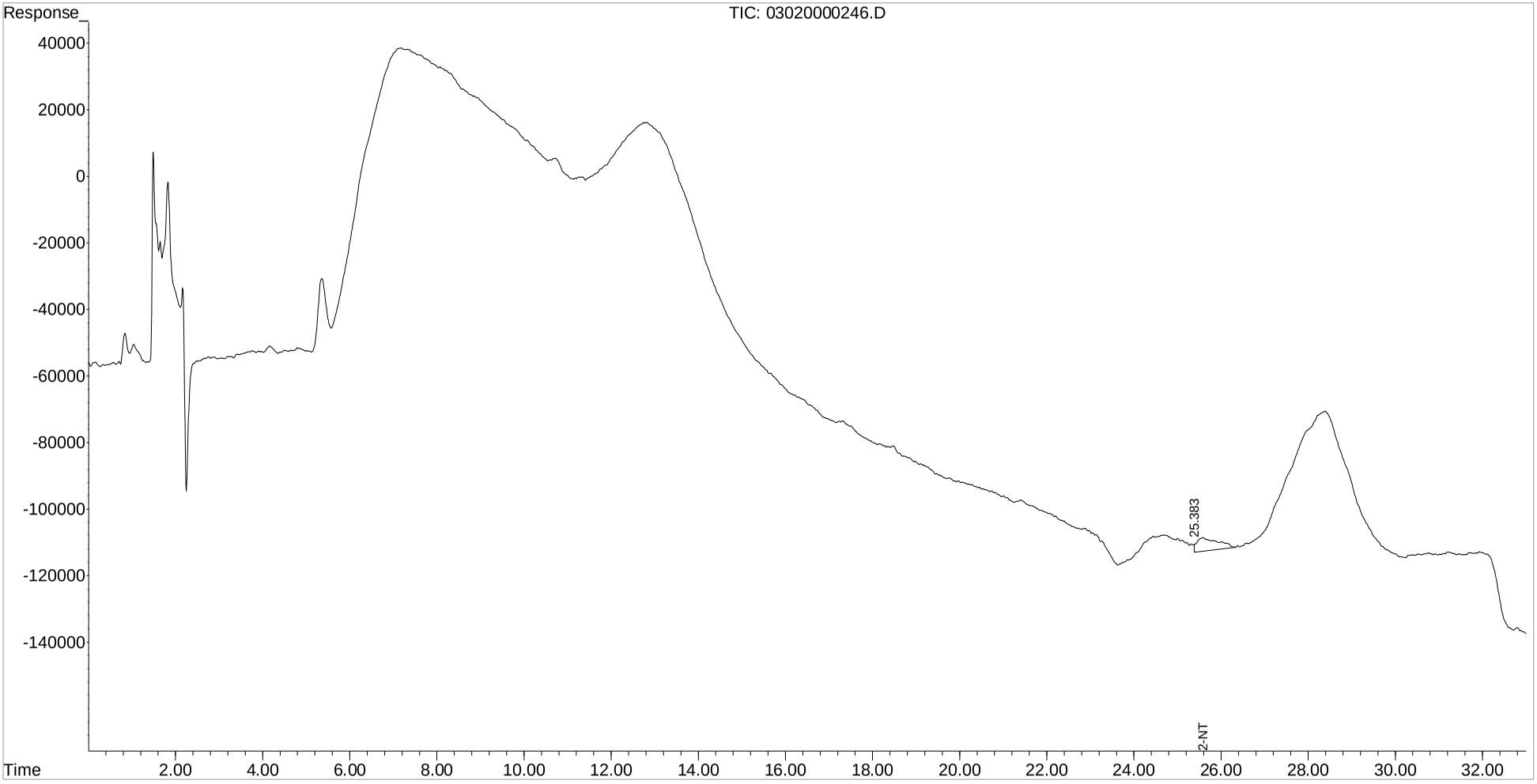
Quantitation Report (QT Reviewed)

[redacted] (6) (6) 03/14/17 03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000246.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 15:10:23 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:51 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000246.
Lab ID: KWG1701858-12
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 15:10
Date Quantitated: 03/06/2017 16:15
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000246.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 15:10	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-12			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene	25.58		132409	7.37			
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000246.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 15:10	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-12			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene	25.58		132409	7.37			
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000246.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 15:10:23 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:51 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	0.000	0	N.D.	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	0.000	0	N.D.	ug/L
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L
6)	T	1,3-DNB	0.000	0	N.D.	ug/L
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8)	T	Tetryl	0.000	0	N.D.	ug/L
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13)	T	2,6-DNT	0.000	0	N.D.	ug/L
14)	T	2,4-DNT	0.000	0	N.D.	ug/L
15)	T	2-NT	25.583f	132409	7.370	ug/L
16)	T	4-NT	0.000	0	N.D.	ug/L
17)	T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

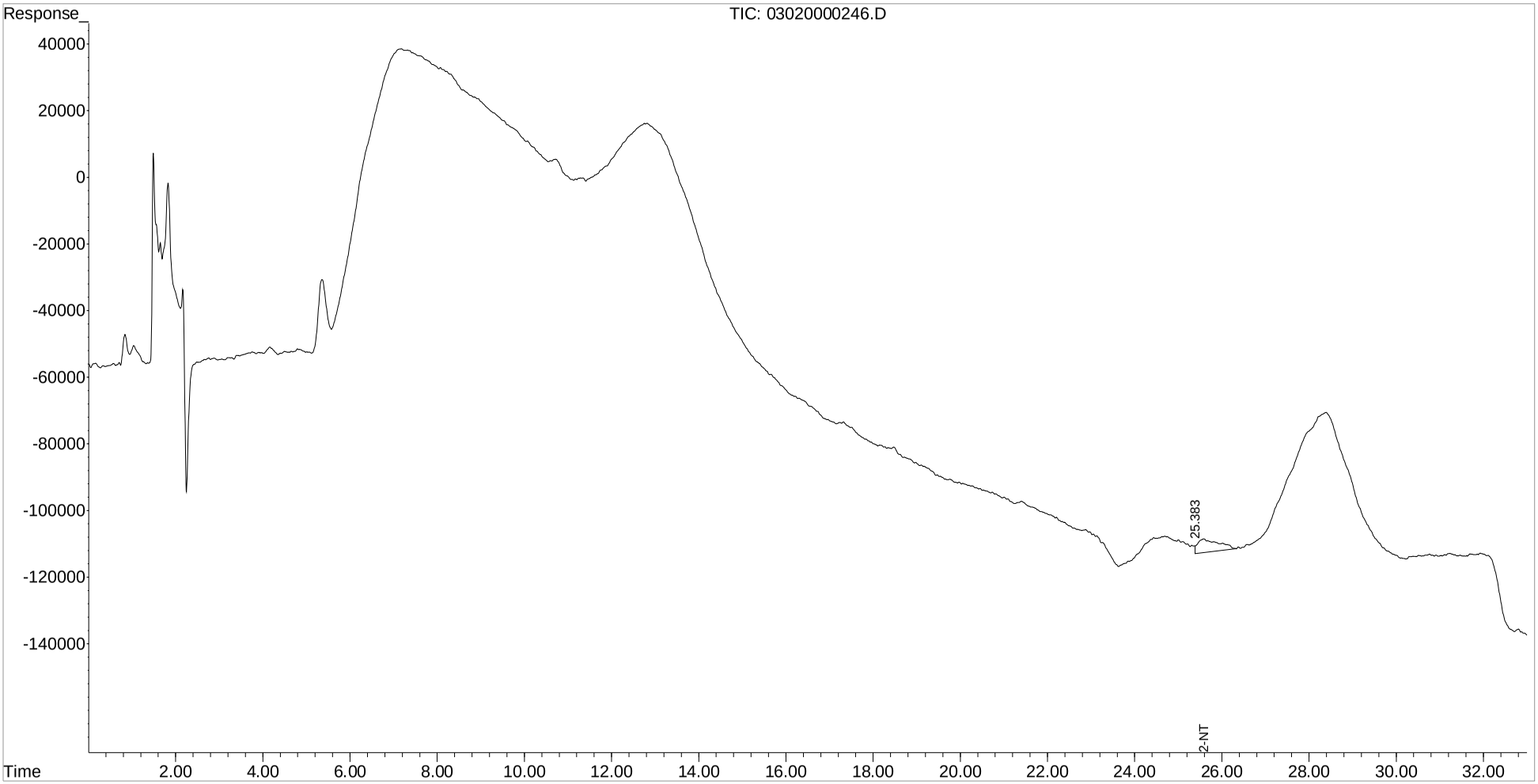
(b) (6) 03/14/17 03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000246.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 15:10:23 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:51 2017
Quant Results File: 120716_8330B@254.RES

11/01/2018

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



012851

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000246.
Lab ID: KWG1701858-12
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 15:10
Date Quantitated: 03/06/2017 16:15
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000246.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 15:10	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-12			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene	25.58		132409	7.37			
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000246.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 15:10	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-12			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene	25.58		132409	7.37			
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000246.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 15:10:23 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:51 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
18) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
	Target Compounds				
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2) T	HMX	0.000	0	N.D.	ug/L
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4) T	RDX	0.000	0	N.D.	ug/L
5) T	1,3,5-TNB	0.000	0	N.D.	ug/L
6) T	1,3-DNB	0.000	0	N.D.	ug/L
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8) T	Tetryl	0.000	0	N.D.	ug/L
9) T	Nitrobenzene	0.000	0	N.D.	ug/L
10) T	2,4,6-TNT	0.000	0	N.D.	ug/L
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13) T	2,6-DNT	0.000	0	N.D.	ug/L
14) T	2,4-DNT	0.000	0	N.D.	ug/L
15) T	2-NT	25.583f	132409	7.370	ug/L
16) T	4-NT	0.000	0	N.D.	ug/L
17) T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] 03/14/17
(g) (g) 03/29/17

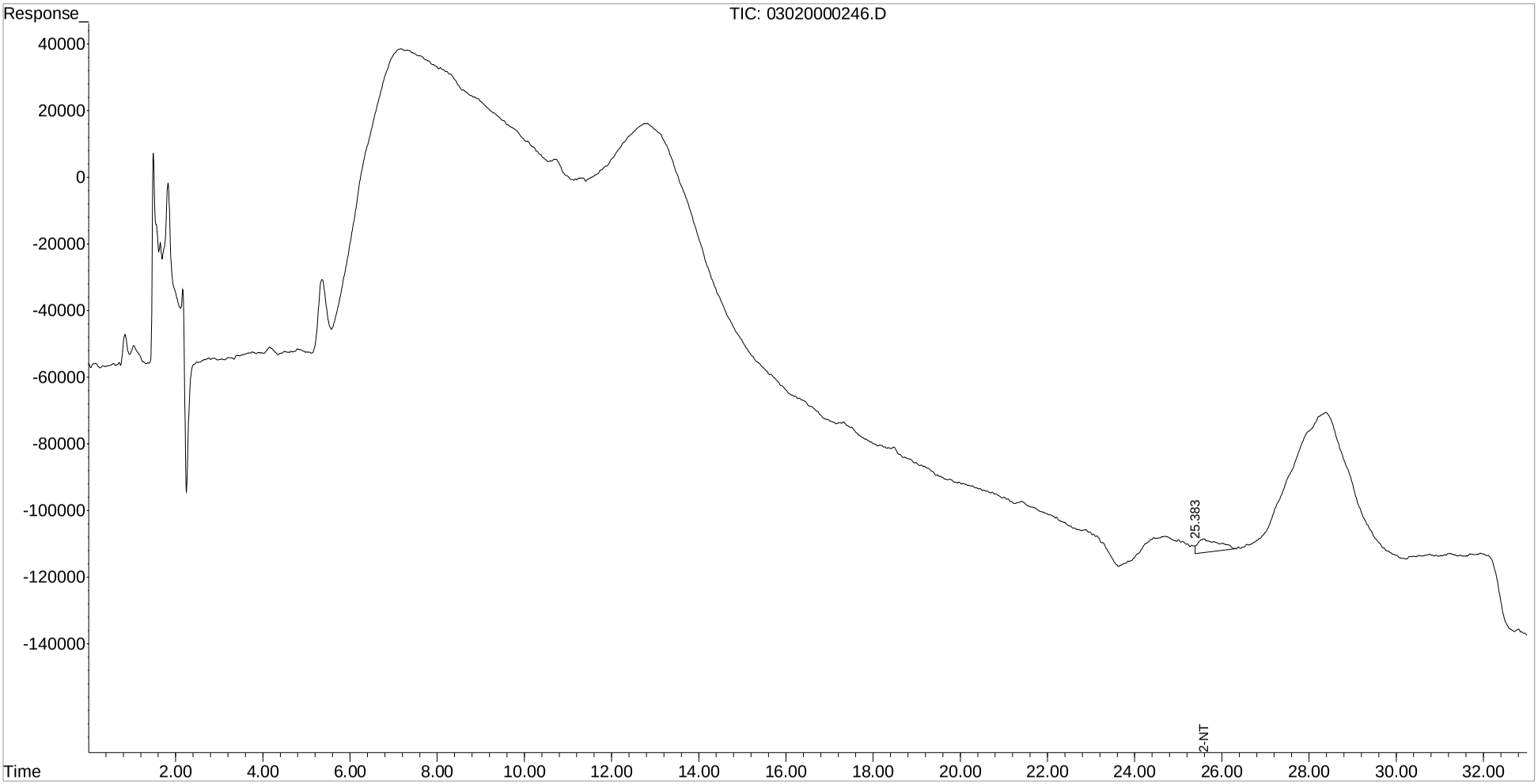
11/01/2018

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000246.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 15:10:23 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:51 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



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012856

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000246.
Lab ID: KWG1701858-12
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 15:10
Date Quantitated: 03/06/2017 16:15
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000246.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 15:10	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-12			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene	25.58		132409	7.37			
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000246.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 15:10	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-12			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene	25.58		132409	7.37			
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000246.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 15:10:23 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:51 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	0.000	0	N.D.	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	0.000	0	N.D.	ug/L
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L
6)	T	1,3-DNB	0.000	0	N.D.	ug/L
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8)	T	Tetryl	0.000	0	N.D.	ug/L
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13)	T	2,6-DNT	0.000	0	N.D.	ug/L
14)	T	2,4-DNT	0.000	0	N.D.	ug/L
15)	T	2-NT	25.583f	132409	7.370	ug/L
16)	T	4-NT	0.000	0	N.D.	ug/L
17)	T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

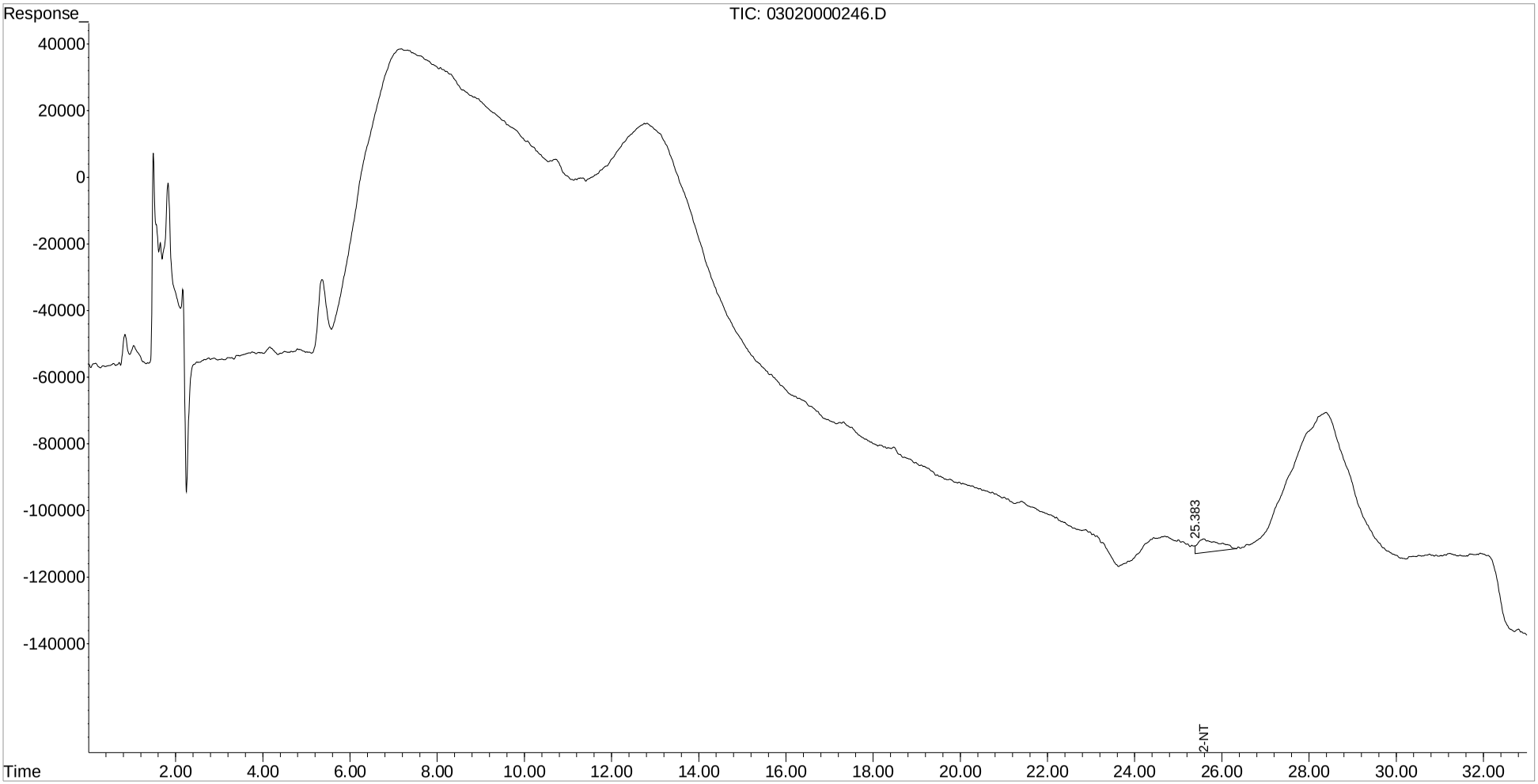
[redacted] 03/14/17
03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000246.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 15:10:23 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:51 2017
Quant Results File: 120716_8330B@254.RES

11/01/2018

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



012861

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000255.
Lab ID: KWG1701858-14
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 20:36
Date Quantitated: 03/06/2017 16:16
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000255.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 20:36	**Quant Date:**	03/06/2017 16:16	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-14			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000255.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 20:36	**Quant Date:**	03/06/2017 16:16	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-14			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000255.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 20:36:29 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:16:10 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	0.000	0	N.D.	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	0.000	0	N.D.	ug/L
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L
6)	T	1,3-DNB	0.000	0	N.D.	ug/L
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8)	T	Tetryl	0.000	0	N.D.	ug/L
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13)	T	2,6-DNT	0.000	0	N.D.	ug/L
14)	T	2,4-DNT	0.000	0	N.D.	ug/L
15)	T	2-NT	0.000	0	N.D.	ug/L
16)	T	4-NT	0.000	0	N.D.	ug/L
17)	T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

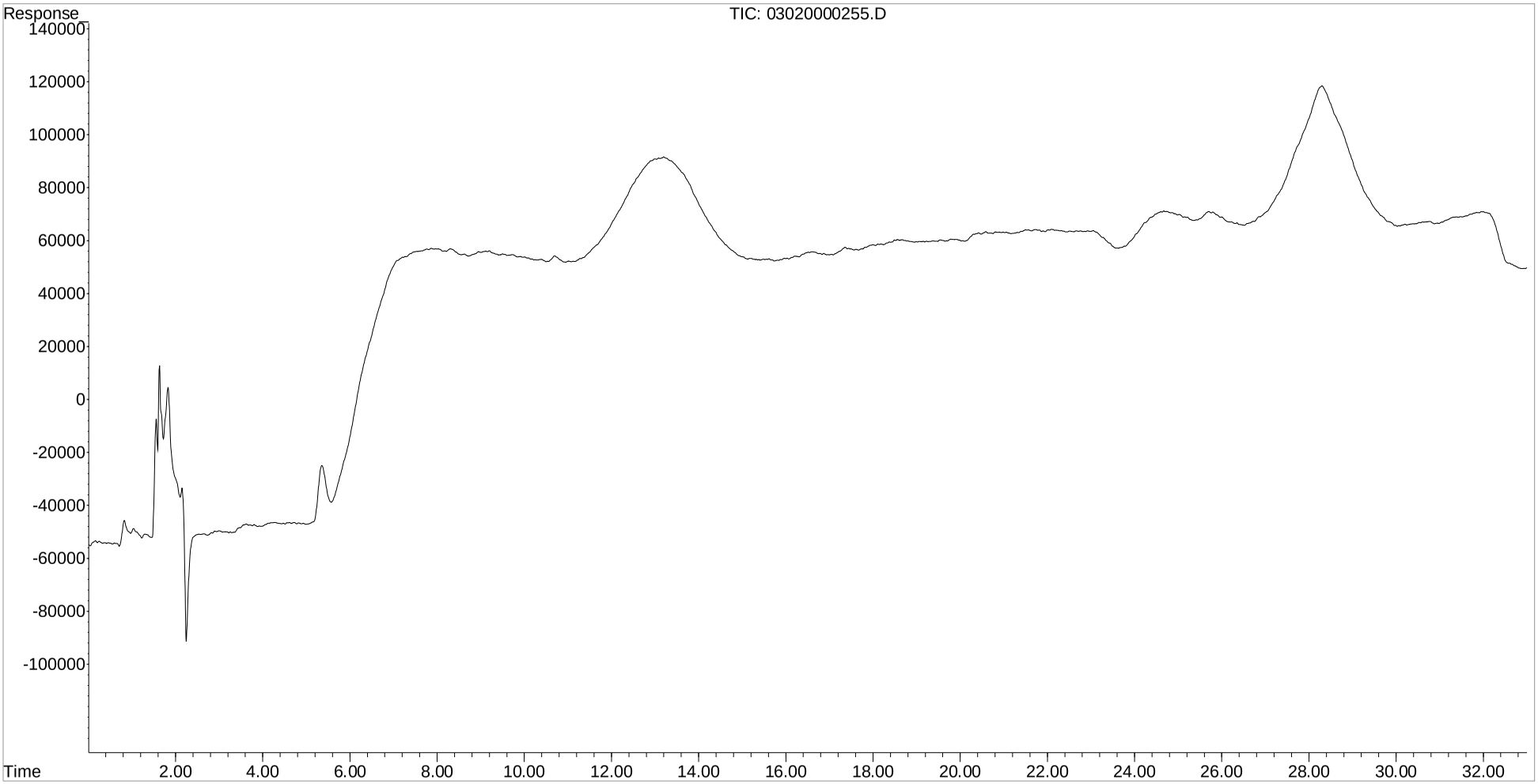
[redacted] (b) (6) 03/14/17 03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000255.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 20:36:29 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:16:10 2017
Quant Results File: 120716_8330B@254.RES

11/01/2018

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



012866

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000255.
Lab ID: KWG1701858-14
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 20:36
Date Quantitated: 03/06/2017 16:16
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000255.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 20:36	**Quant Date:**	03/06/2017 16:16	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-14			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000255.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 20:36	**Quant Date:**	03/06/2017 16:16	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-14			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000255.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 20:36:29 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:16:10 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
18) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
	Target Compounds				
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2) T	HMX	0.000	0	N.D.	ug/L
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4) T	RDX	0.000	0	N.D.	ug/L
5) T	1,3,5-TNB	0.000	0	N.D.	ug/L
6) T	1,3-DNB	0.000	0	N.D.	ug/L
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8) T	Tetryl	0.000	0	N.D.	ug/L
9) T	Nitrobenzene	0.000	0	N.D.	ug/L
10) T	2,4,6-TNT	0.000	0	N.D.	ug/L
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13) T	2,6-DNT	0.000	0	N.D.	ug/L
14) T	2,4-DNT	0.000	0	N.D.	ug/L
15) T	2-NT	0.000	0	N.D.	ug/L
16) T	4-NT	0.000	0	N.D.	ug/L
17) T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

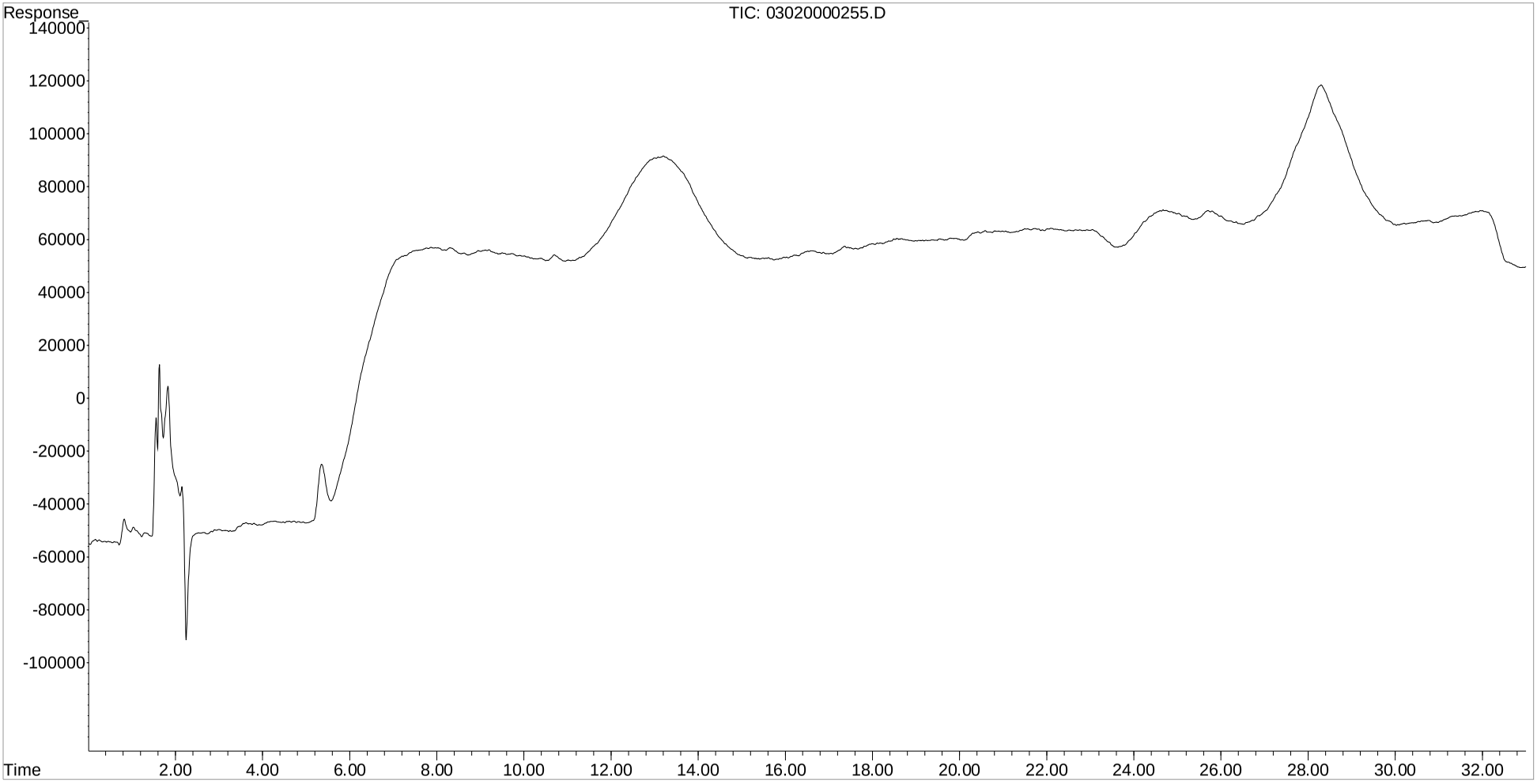
[redacted] 03/14/17
03/29/17

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000255.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 20:36:29 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:16:10 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



11/01/2018

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012871

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000255.
Lab ID: KWG1701858-14
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 20:36
Date Quantitated: 03/06/2017 16:16
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000255.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 20:36	**Quant Date:**	03/06/2017 16:16	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-14			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000255.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 20:36	**Quant Date:**	03/06/2017 16:16	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-14			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000255.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 20:36:29 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:16:10 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	0.000	0	N.D.	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	0.000	0	N.D.	ug/L
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L
6)	T	1,3-DNB	0.000	0	N.D.	ug/L
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8)	T	Tetryl	0.000	0	N.D.	ug/L
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13)	T	2,6-DNT	0.000	0	N.D.	ug/L
14)	T	2,4-DNT	0.000	0	N.D.	ug/L
15)	T	2-NT	0.000	0	N.D.	ug/L
16)	T	4-NT	0.000	0	N.D.	ug/L
17)	T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] 03/14/17
03/29/17

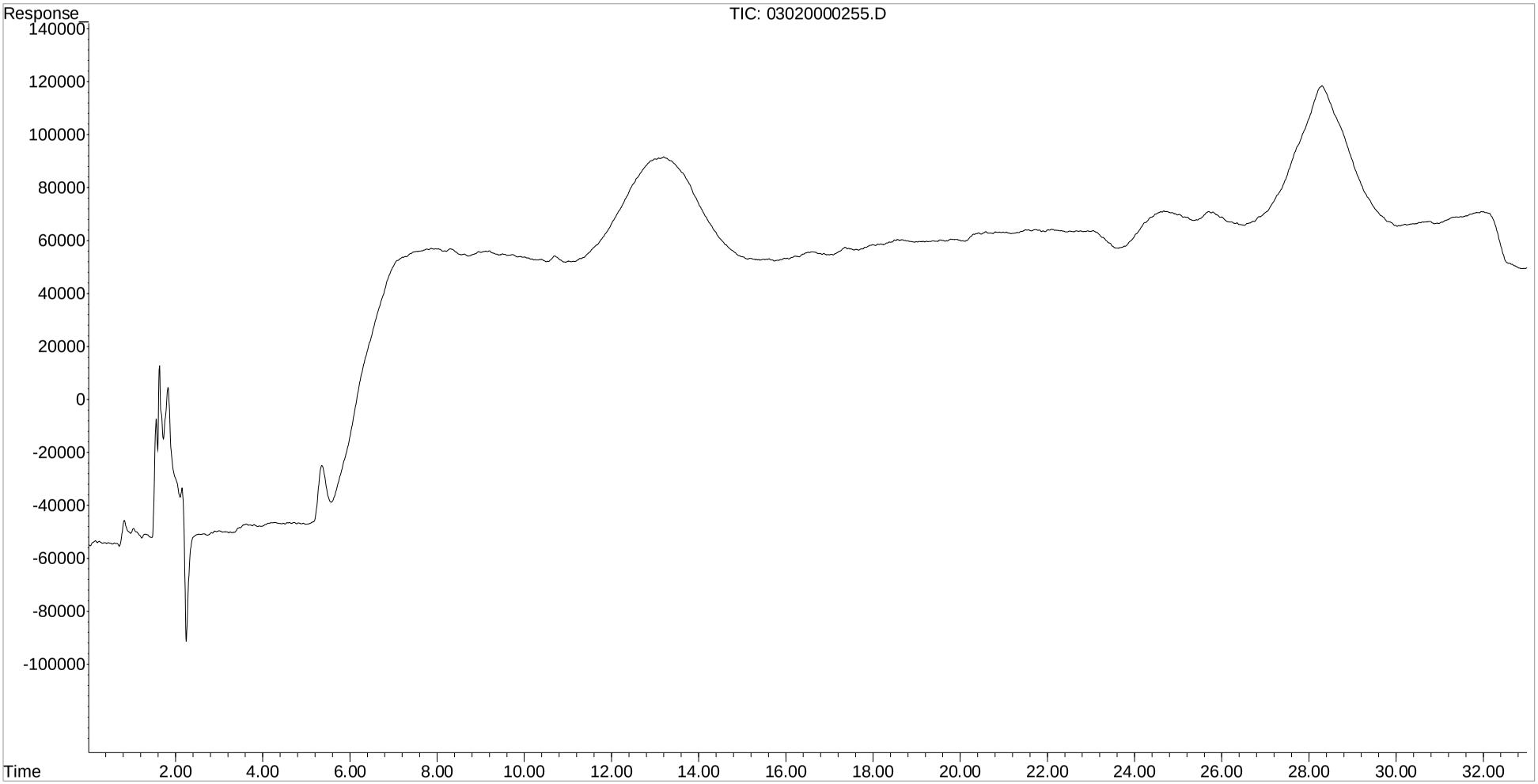
Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000255.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 20:36:29 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:16:10 2017
Quant Results File: 120716_8330B@254.RES

11/01/2018

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000255.
Lab ID: KWG1701858-14
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 20:36
Date Quantitated: 03/06/2017 16:16
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000255.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 20:36	**Quant Date:**	03/06/2017 16:16	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-14			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000255.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 20:36	**Quant Date:**	03/06/2017 16:16	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-14			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000255.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 20:36:29 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:16:10 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	0.000	0	N.D.	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	0.000	0	N.D.	ug/L
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L
6)	T	1,3-DNB	0.000	0	N.D.	ug/L
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8)	T	Tetryl	0.000	0	N.D.	ug/L
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13)	T	2,6-DNT	0.000	0	N.D.	ug/L
14)	T	2,4-DNT	0.000	0	N.D.	ug/L
15)	T	2-NT	0.000	0	N.D.	ug/L
16)	T	4-NT	0.000	0	N.D.	ug/L
17)	T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

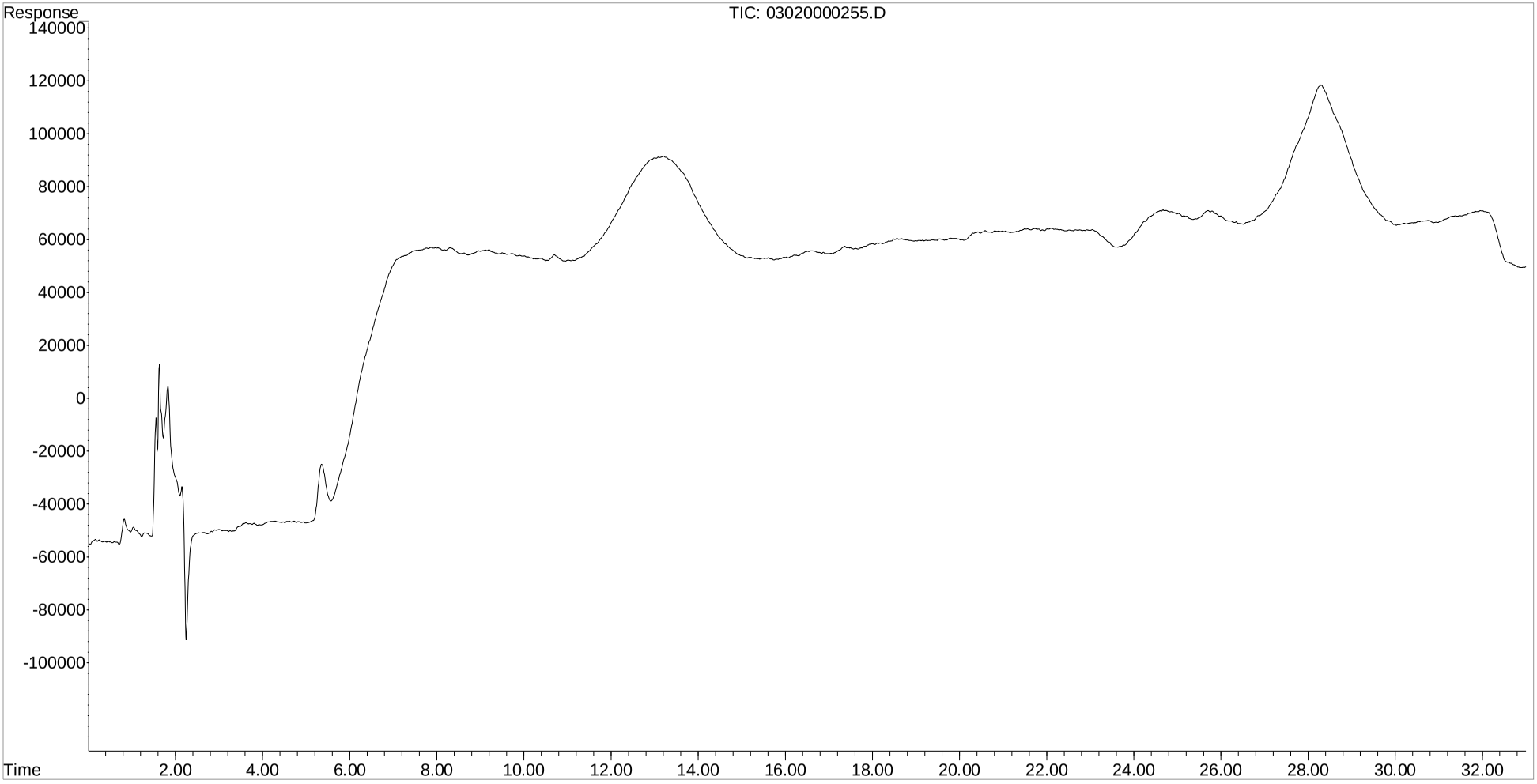
[redacted] (9) (g) 03/14/17
03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000255.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 20:36:29 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:16:10 2017
Quant Results File: 120716_8330B@254.RES

11/01/2018

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



012881

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000255.
Lab ID: KWG1701858-14
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 20:36
Date Quantitated: 03/06/2017 16:16
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000255.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 20:36	**Quant Date:**	03/06/2017 16:16	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-14			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000255.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 20:36	**Quant Date:**	03/06/2017 16:16	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-14			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000255.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 20:36:29 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:16:10 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	0.000	0	N.D.	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	0.000	0	N.D.	ug/L
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L
6)	T	1,3-DNB	0.000	0	N.D.	ug/L
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8)	T	Tetryl	0.000	0	N.D.	ug/L
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13)	T	2,6-DNT	0.000	0	N.D.	ug/L
14)	T	2,4-DNT	0.000	0	N.D.	ug/L
15)	T	2-NT	0.000	0	N.D.	ug/L
16)	T	4-NT	0.000	0	N.D.	ug/L
17)	T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

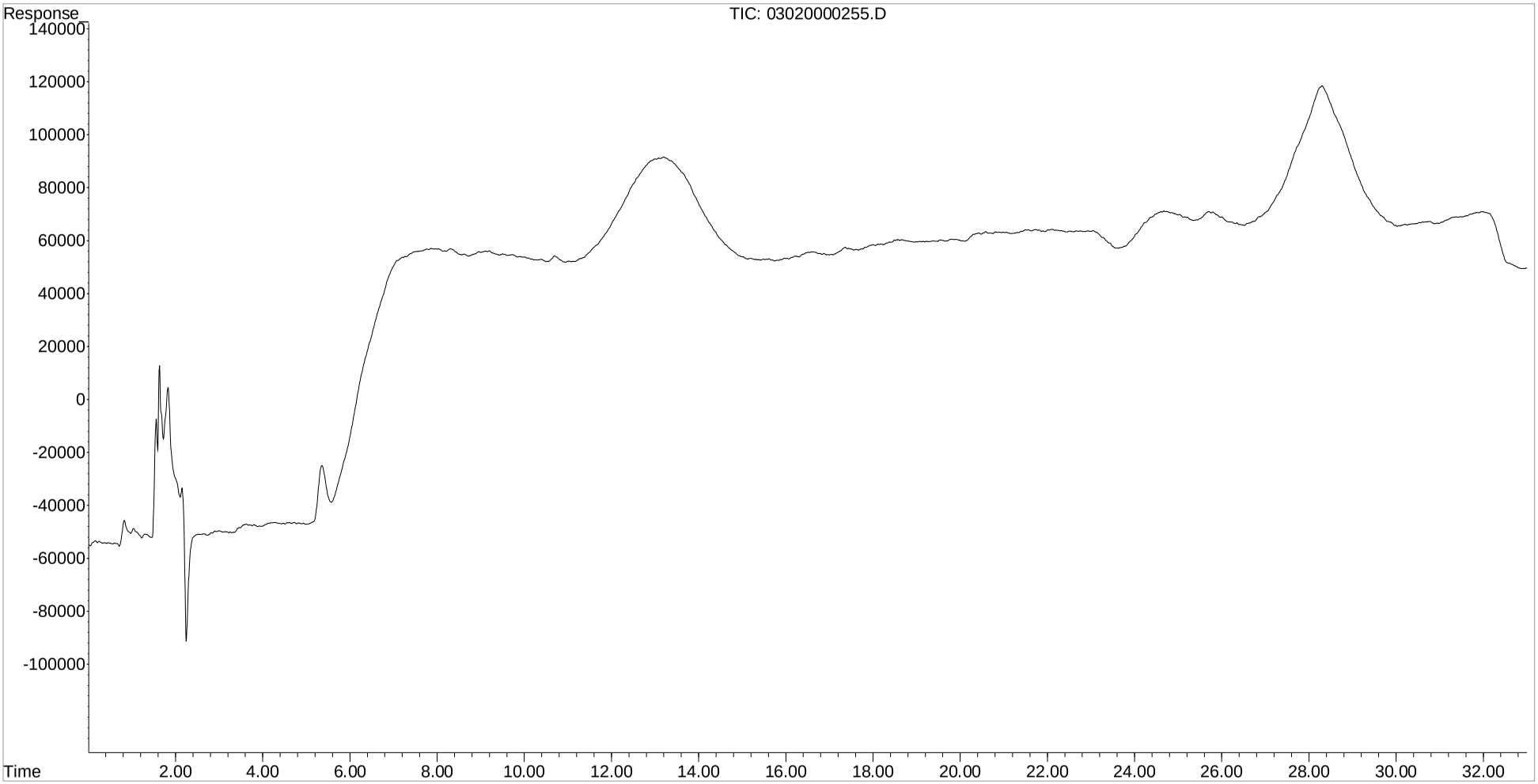
[redacted] (b) (6) 03/14/17 03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000255.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 20:36:29 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:16:10 2017
Quant Results File: 120716_8330B@254.RES

11/01/2018

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



012886

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000255.
Lab ID: KWG1701858-14
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 20:36
Date Quantitated: 03/06/2017 16:16
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000255.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 20:36	**Quant Date:**	03/06/2017 16:16	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-14			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000255.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 20:36	**Quant Date:**	03/06/2017 16:16	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-14			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000255.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 20:36:29 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:16:10 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	0.000	0	N.D.	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	0.000	0	N.D.	ug/L
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L
6)	T	1,3-DNB	0.000	0	N.D.	ug/L
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8)	T	Tetryl	0.000	0	N.D.	ug/L
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13)	T	2,6-DNT	0.000	0	N.D.	ug/L
14)	T	2,4-DNT	0.000	0	N.D.	ug/L
15)	T	2-NT	0.000	0	N.D.	ug/L
16)	T	4-NT	0.000	0	N.D.	ug/L
17)	T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] 03/14/17
(g) (l) 03/29/17

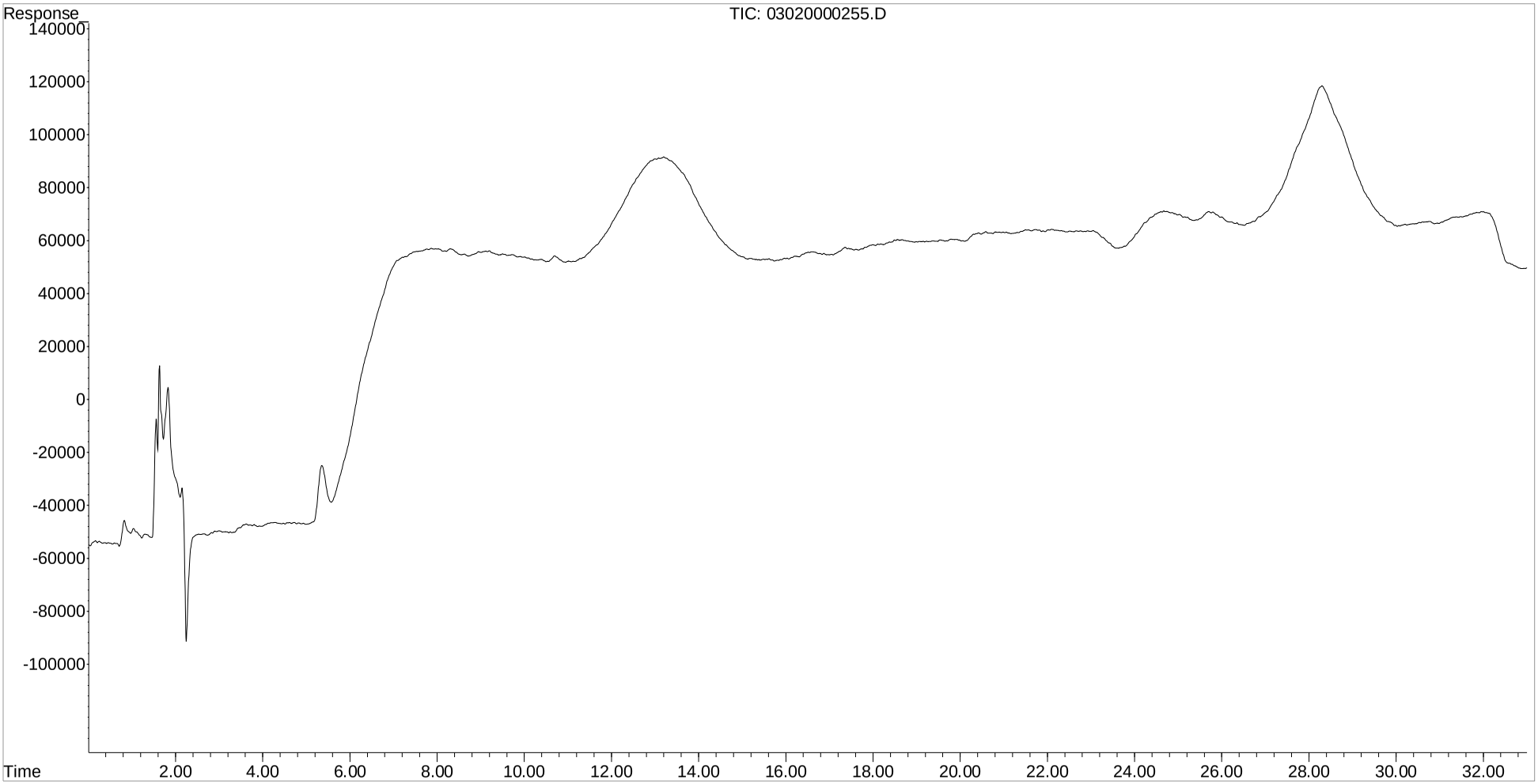
Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000255.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 20:36:29 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:16:10 2017
Quant Results File: 120716_8330B@254.RES

11/01/2018

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000203.
Lab ID: KWG1701858-2
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/02/2017 13:12
Date Quantitated: 03/06/2017 16:14
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000203.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 13:12	**Quant Date:**	03/06/2017 16:14	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-2			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000203.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 13:12	**Quant Date:**	03/06/2017 16:14	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-2			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000203.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 13:12:28 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:24 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:35 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
18) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
	Target Compounds				
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2) T	HMX	0.000	0	N.D.	ug/L
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4) T	RDX	0.000	0	N.D.	ug/L
5) T	1,3,5-TNB	0.000	0	N.D.	ug/L
6) T	1,3-DNB	0.000	0	N.D.	ug/L
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8) T	Tetryl	0.000	0	N.D.	ug/L
9) T	Nitrobenzene	0.000	0	N.D.	ug/L
10) T	2,4,6-TNT	0.000	0	N.D.	ug/L
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13) T	2,6-DNT	0.000	0	N.D.	ug/L
14) T	2,4-DNT	0.000	0	N.D.	ug/L
15) T	2-NT	0.000	0	N.D.	ug/L
16) T	4-NT	0.000	0	N.D.	ug/L
17) T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

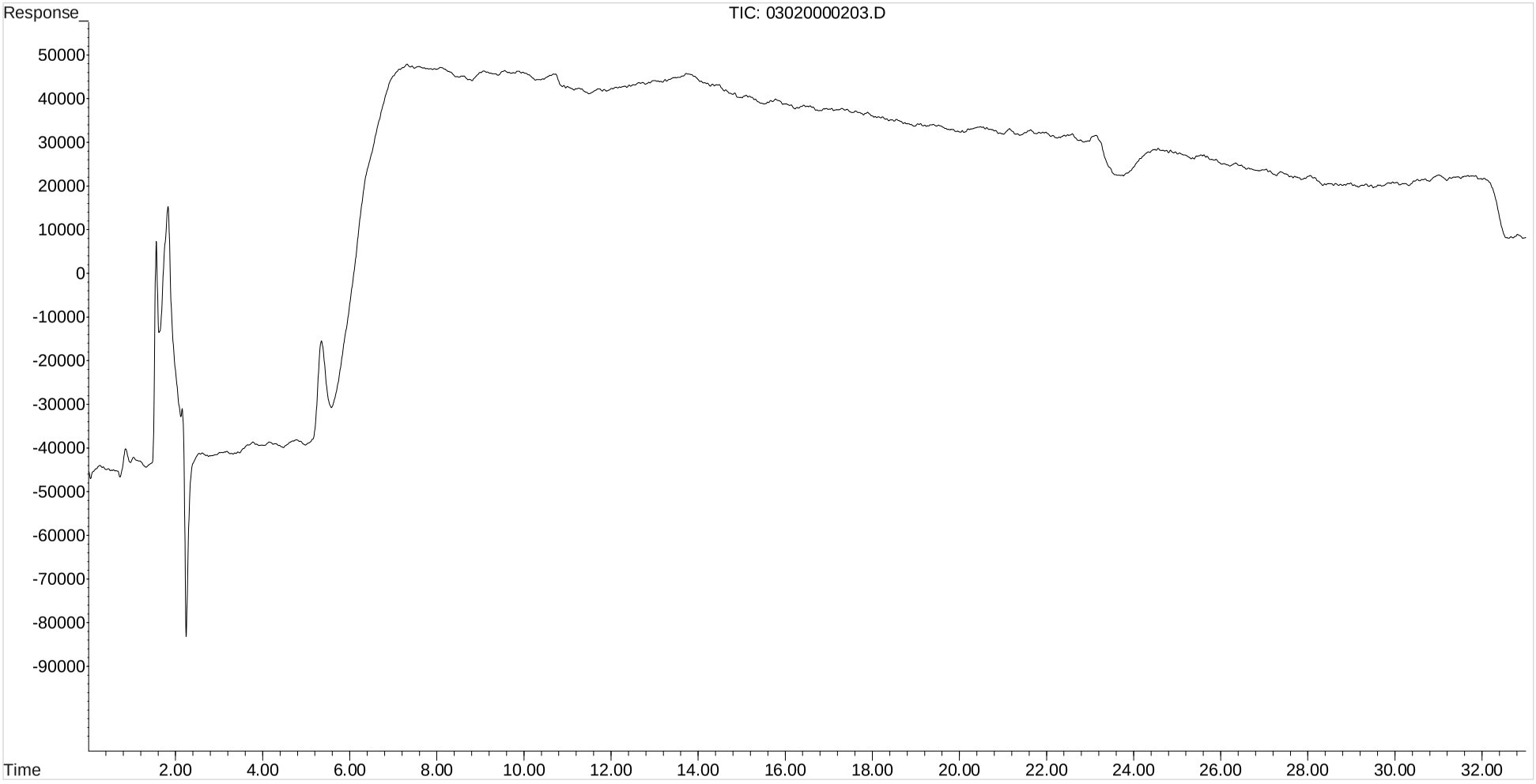
(b) (6) 03/14/17
03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000203.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 13:12:28 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:24 2017
Quant Results File: 120716_8330B@254.RES

11/01/2018

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:35 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



012896

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000203.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 13:12:28 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:24 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:35 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	0.000	0	N.D.	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	0.000	0	N.D.	ug/L
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L
6)	T	1,3-DNB	0.000	0	N.D.	ug/L
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8)	T	Tetryl	0.000	0	N.D.	ug/L
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13)	T	2,6-DNT	0.000	0	N.D.	ug/L
14)	T	2,4-DNT	0.000	0	N.D.	ug/L
15)	T	2-NT	0.000	0	N.D.	ug/L
16)	T	4-NT	0.000	0	N.D.	ug/L
17)	T	3-NT	0.000	0	N.D.	ug/L

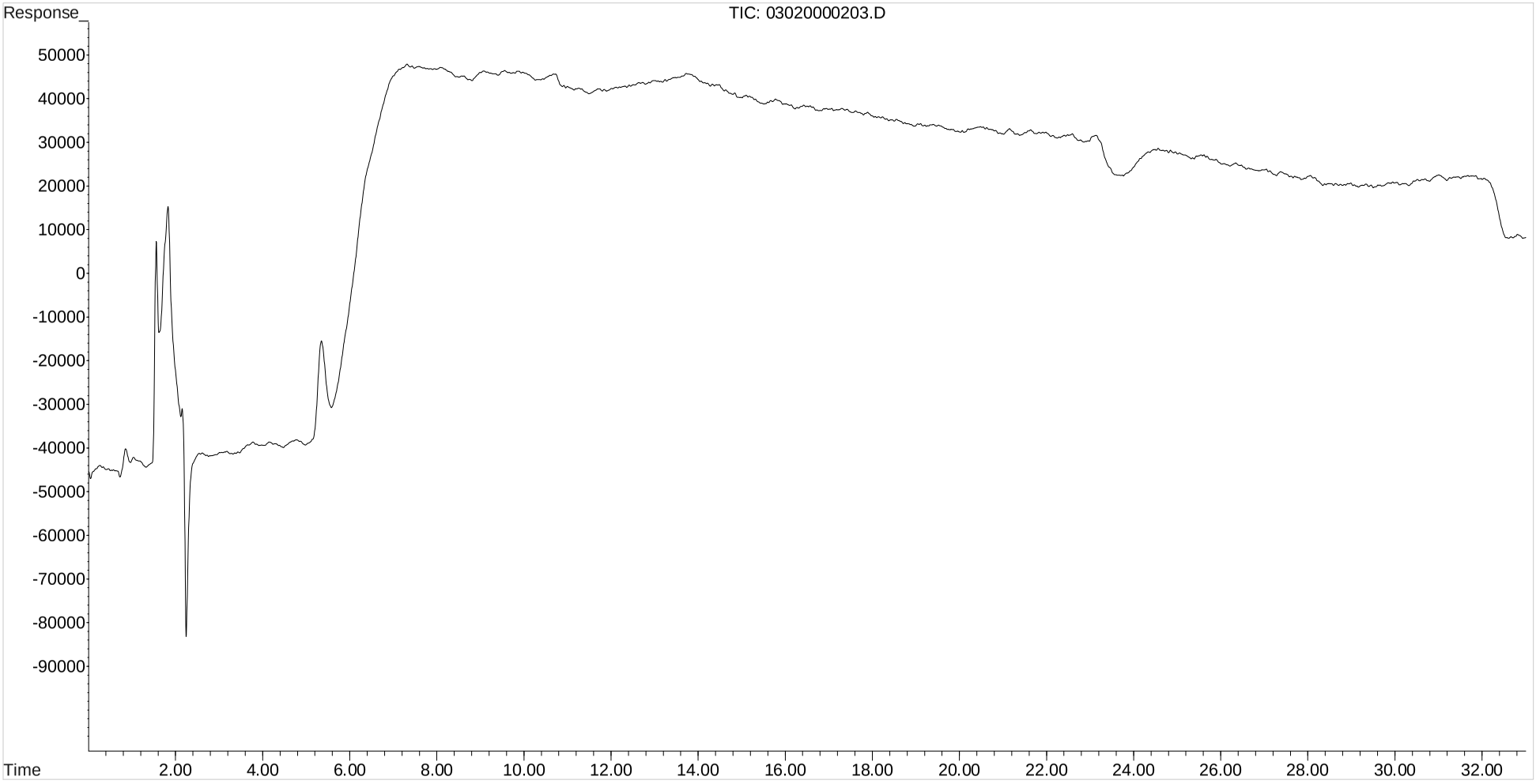
(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] (6) (6) 3/14/17 3/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000203.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 13:12:28 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:24 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:35 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000203.
Lab ID: KWG1701858-2
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/02/2017 13:12
Date Quantitated: 03/06/2017 16:14
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000203.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 13:12	**Quant Date:**	03/06/2017 16:14	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-2			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000203.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 13:12	**Quant Date:**	03/06/2017 16:14	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-2			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
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NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000203.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 13:12:28 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:24 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:35 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	0.000	0	N.D.	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	0.000	0	N.D.	ug/L
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L
6)	T	1,3-DNB	0.000	0	N.D.	ug/L
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8)	T	Tetryl	0.000	0	N.D.	ug/L
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13)	T	2,6-DNT	0.000	0	N.D.	ug/L
14)	T	2,4-DNT	0.000	0	N.D.	ug/L
15)	T	2-NT	0.000	0	N.D.	ug/L
16)	T	4-NT	0.000	0	N.D.	ug/L
17)	T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] (6) (b) 03/14/17
03/29/17

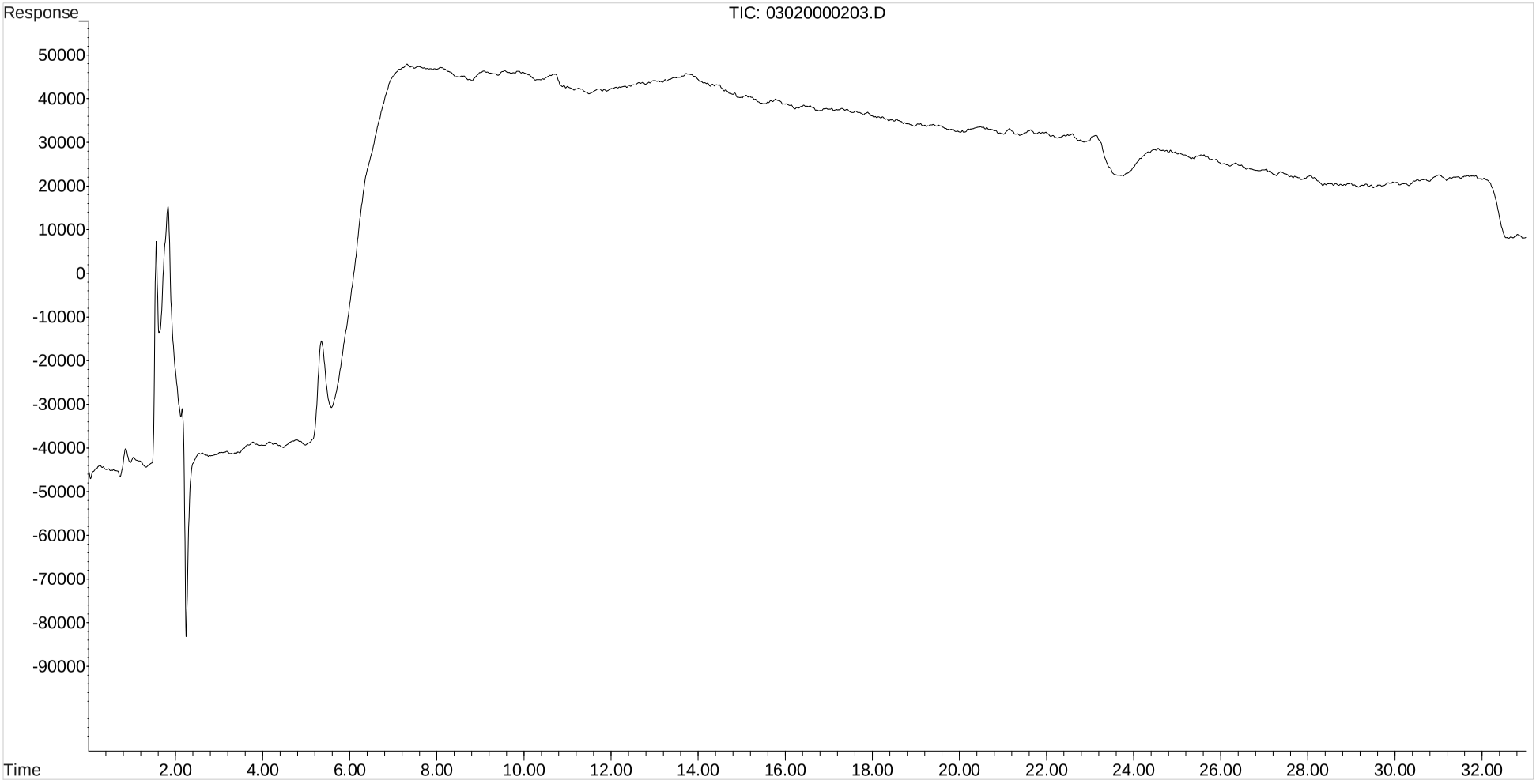
11/01/2018

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000203.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 13:12:28 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:24 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:35 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



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012903

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000203.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 13:12:28 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:24 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:35 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
18) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
	Target Compounds				
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2) T	HMX	0.000	0	N.D.	ug/L
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4) T	RDX	0.000	0	N.D.	ug/L
5) T	1,3,5-TNB	0.000	0	N.D.	ug/L
6) T	1,3-DNB	0.000	0	N.D.	ug/L
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8) T	Tetryl	0.000	0	N.D.	ug/L
9) T	Nitrobenzene	0.000	0	N.D.	ug/L
10) T	2,4,6-TNT	0.000	0	N.D.	ug/L
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13) T	2,6-DNT	0.000	0	N.D.	ug/L
14) T	2,4-DNT	0.000	0	N.D.	ug/L
15) T	2-NT	0.000	0	N.D.	ug/L
16) T	4-NT	0.000	0	N.D.	ug/L
17) T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] 03/14/17
(b) (6) 03/29/17

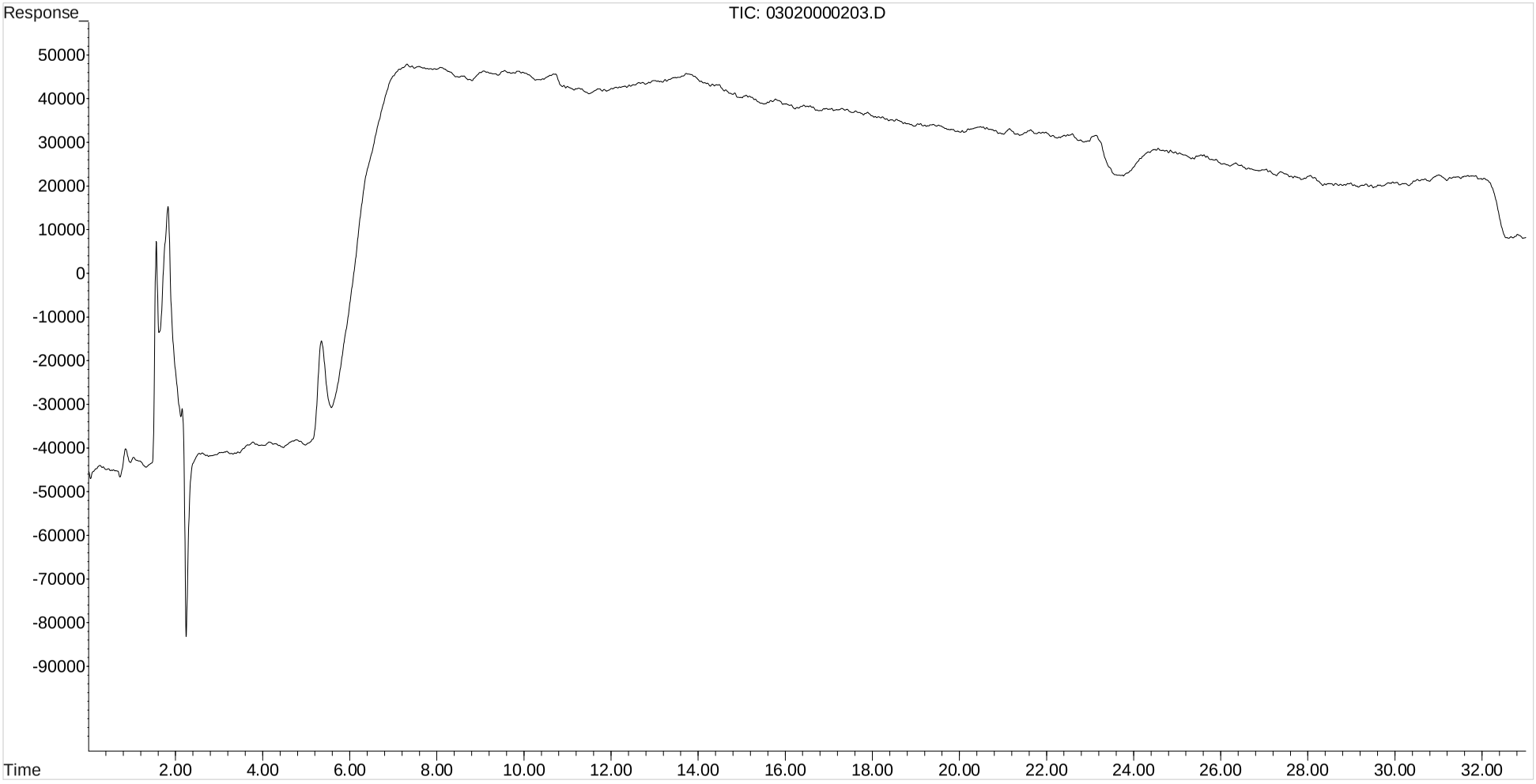
11/01/2018

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000203.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 13:12:28 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:24 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:35 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



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012905

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000203.
Lab ID: KWG1701858-2
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/02/2017 13:12
Date Quantitated: 03/06/2017 16:14
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000203.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 13:12	**Quant Date:**	03/06/2017 16:14	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-2			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000203.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 13:12	**Quant Date:**	03/06/2017 16:14	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-2			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000203.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 13:12:28 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:24 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:35 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
18) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
	Target Compounds				
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2) T	HMX	0.000	0	N.D.	ug/L
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4) T	RDX	0.000	0	N.D.	ug/L
5) T	1,3,5-TNB	0.000	0	N.D.	ug/L
6) T	1,3-DNB	0.000	0	N.D.	ug/L
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8) T	Tetryl	0.000	0	N.D.	ug/L
9) T	Nitrobenzene	0.000	0	N.D.	ug/L
10) T	2,4,6-TNT	0.000	0	N.D.	ug/L
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13) T	2,6-DNT	0.000	0	N.D.	ug/L
14) T	2,4-DNT	0.000	0	N.D.	ug/L
15) T	2-NT	0.000	0	N.D.	ug/L
16) T	4-NT	0.000	0	N.D.	ug/L
17) T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

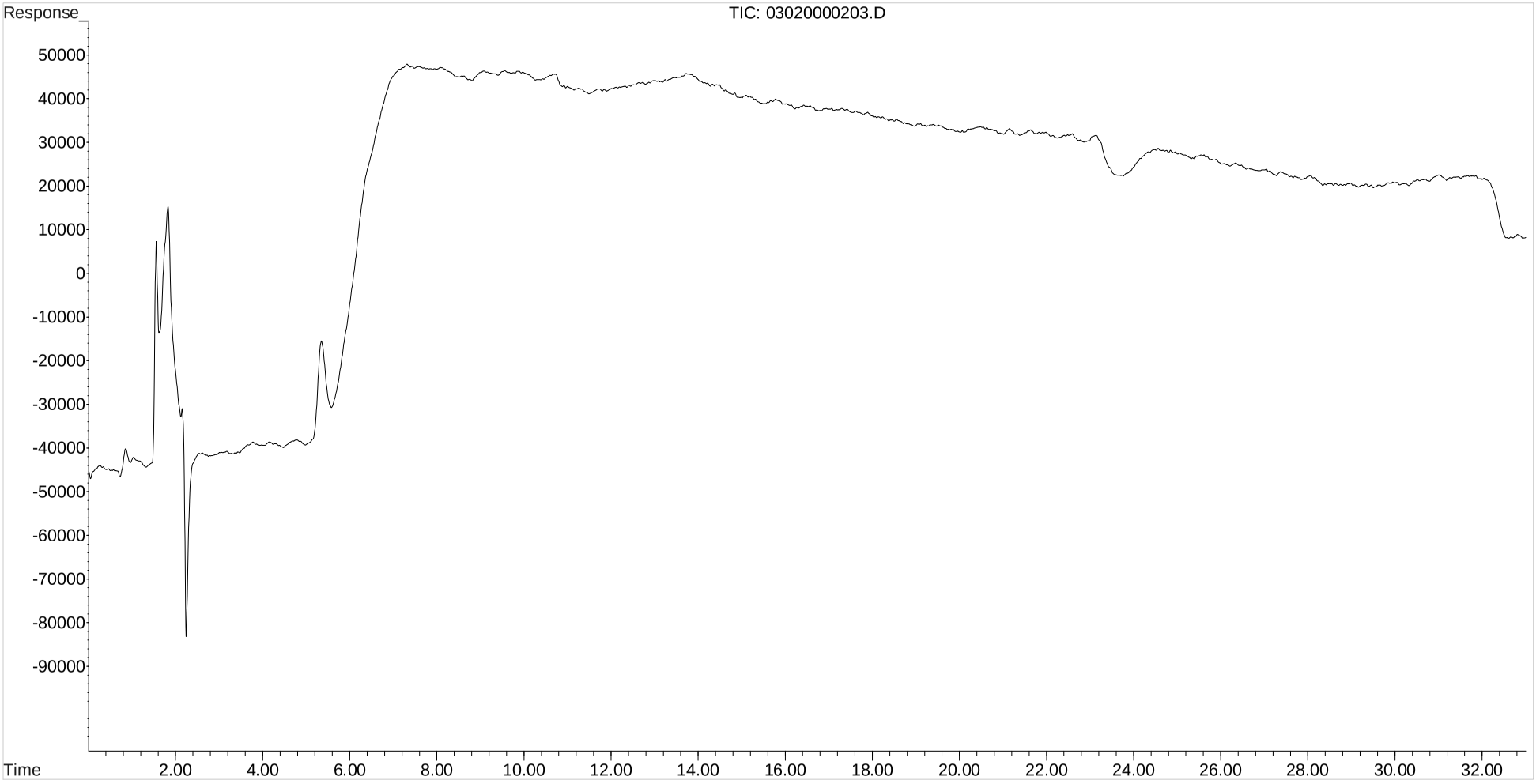
Quantitation Report (QT Reviewed)

[redacted] 03/14/17
03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000203.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 13:12:28 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:24 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:35 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000203.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 13:12:28 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:24 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:35 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
18) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
	Target Compounds				
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2) T	HMX	0.000	0	N.D.	ug/L
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4) T	RDX	0.000	0	N.D.	ug/L
5) T	1,3,5-TNB	0.000	0	N.D.	ug/L
6) T	1,3-DNB	0.000	0	N.D.	ug/L
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8) T	Tetryl	0.000	0	N.D.	ug/L
9) T	Nitrobenzene	0.000	0	N.D.	ug/L
10) T	2,4,6-TNT	0.000	0	N.D.	ug/L
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13) T	2,6-DNT	0.000	0	N.D.	ug/L
14) T	2,4-DNT	0.000	0	N.D.	ug/L
15) T	2-NT	0.000	0	N.D.	ug/L
16) T	4-NT	0.000	0	N.D.	ug/L
17) T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

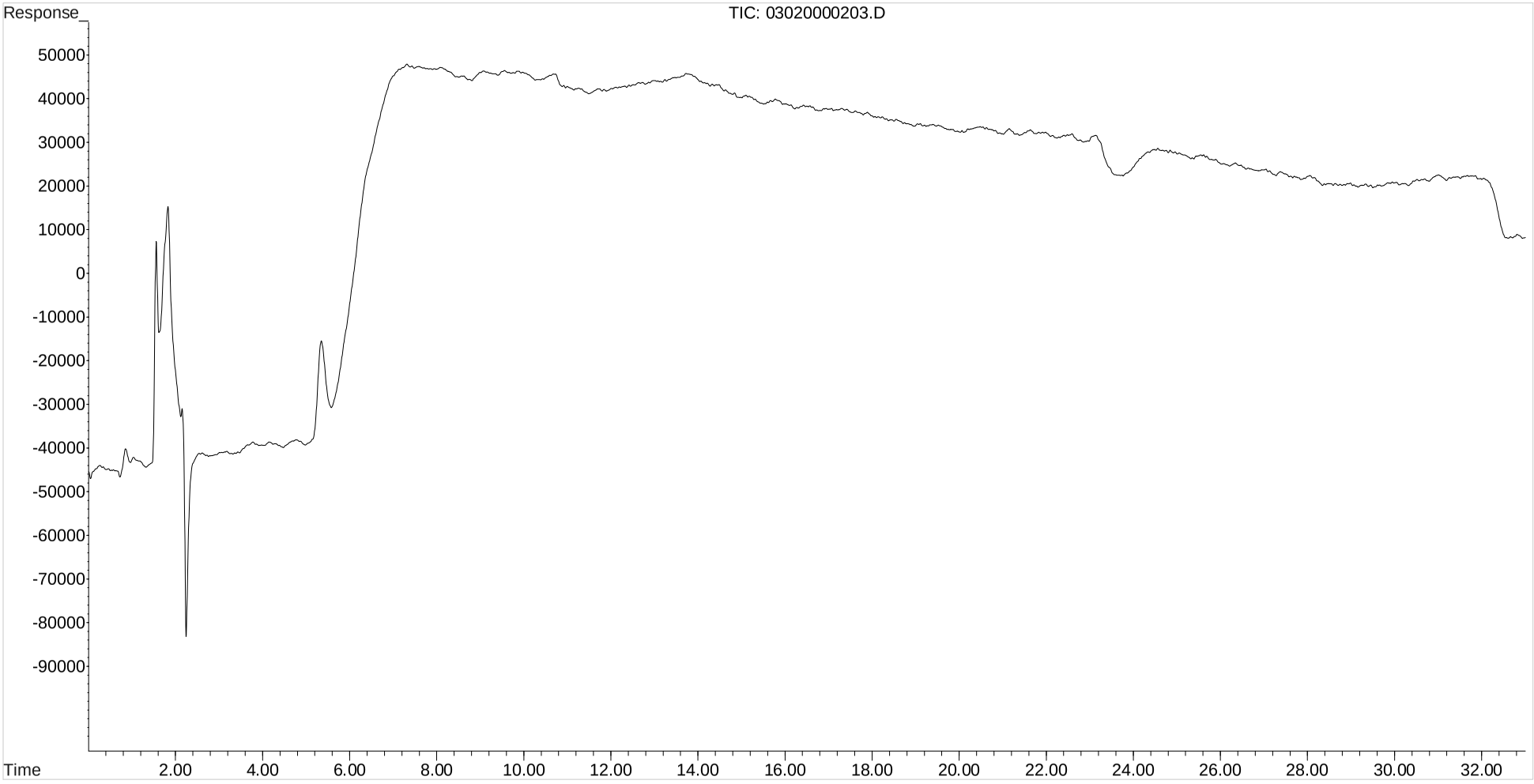
1st BR 03/14/17
2nd JEP 03/29/17

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000203.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 13:12:28 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:24 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:35 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



11/01/2018

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012912

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000203.
Lab ID: KWG1701858-2
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/02/2017 13:12
Date Quantitated: 03/06/2017 16:14
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000203.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 13:12	**Quant Date:**	03/06/2017 16:14	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-2			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000203.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 13:12	**Quant Date:**	03/06/2017 16:14	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-2			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000203.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 13:12:28 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:24 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:35 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
18) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
	Target Compounds				
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2) T	HMX	0.000	0	N.D.	ug/L
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4) T	RDX	0.000	0	N.D.	ug/L
5) T	1,3,5-TNB	0.000	0	N.D.	ug/L
6) T	1,3-DNB	0.000	0	N.D.	ug/L
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8) T	Tetryl	0.000	0	N.D.	ug/L
9) T	Nitrobenzene	0.000	0	N.D.	ug/L
10) T	2,4,6-TNT	0.000	0	N.D.	ug/L
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13) T	2,6-DNT	0.000	0	N.D.	ug/L
14) T	2,4-DNT	0.000	0	N.D.	ug/L
15) T	2-NT	0.000	0	N.D.	ug/L
16) T	4-NT	0.000	0	N.D.	ug/L
17) T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] 03/14/17
(g) (g) 03/29/17

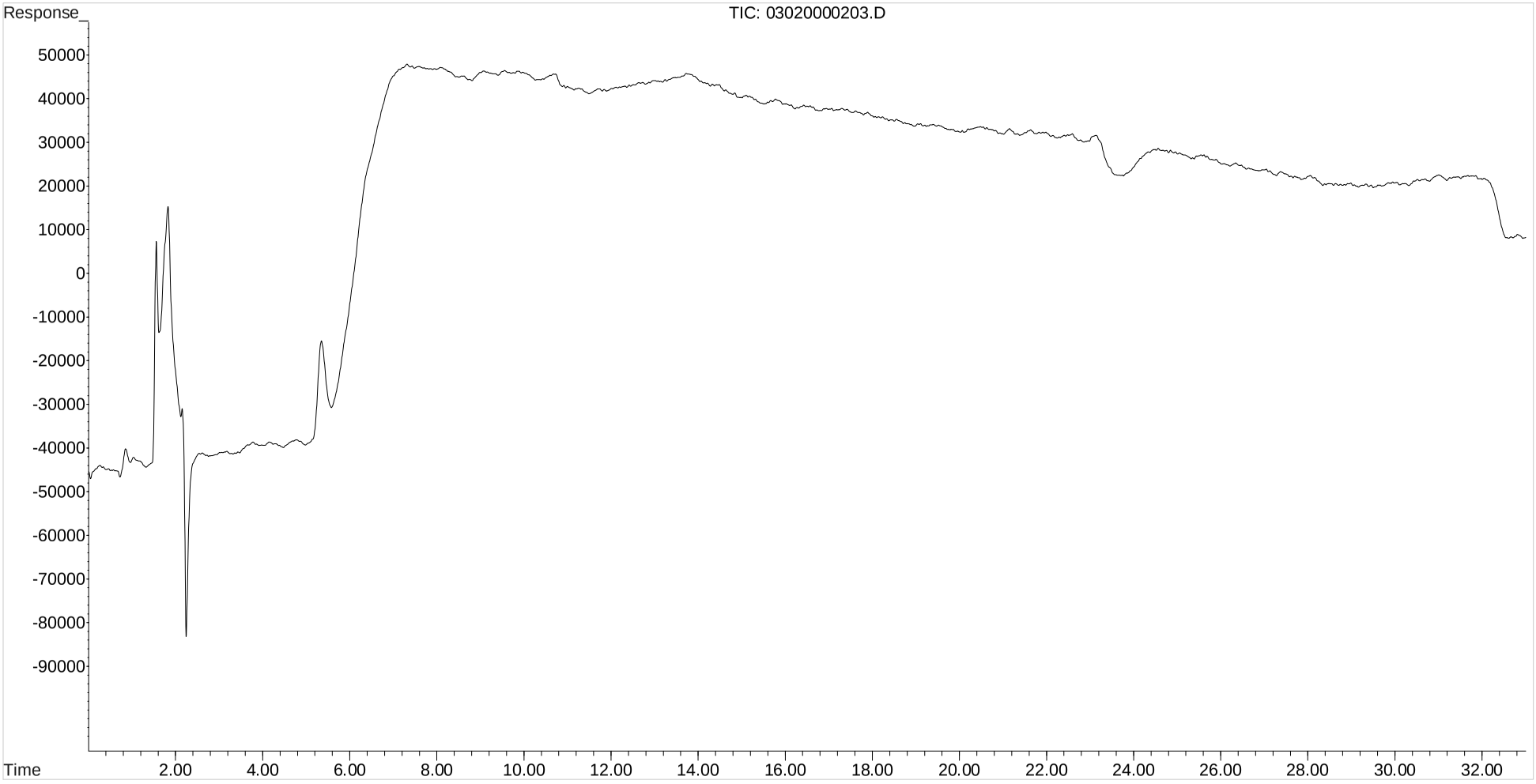
11/01/2018

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000203.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 13:12:28 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:24 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:35 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



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012917

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000203.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 13:12:28 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:24 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:35 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	0.000	0	N.D.	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	0.000	0	N.D.	ug/L
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L
6)	T	1,3-DNB	0.000	0	N.D.	ug/L
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8)	T	Tetryl	0.000	0	N.D.	ug/L
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13)	T	2,6-DNT	0.000	0	N.D.	ug/L
14)	T	2,4-DNT	0.000	0	N.D.	ug/L
15)	T	2-NT	0.000	0	N.D.	ug/L
16)	T	4-NT	0.000	0	N.D.	ug/L
17)	T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] 03/14/17
(9) (a) 03/29/17

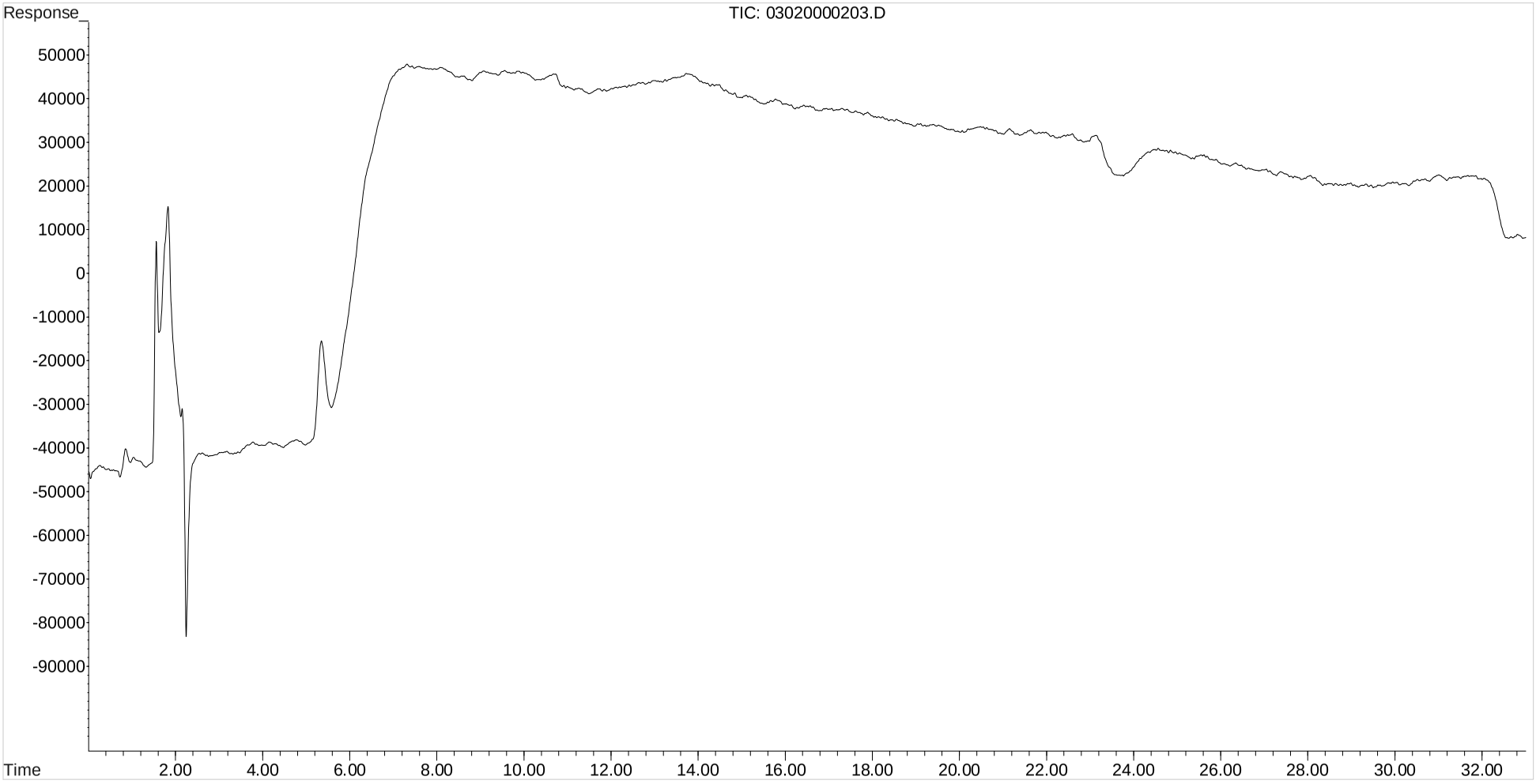
11/01/2018

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000203.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 13:12:28 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:24 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:35 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



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012919

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000203.
Lab ID: KWG1701858-2
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/02/2017 13:12
Date Quantitated: 03/06/2017 16:14
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000203.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 13:12	**Quant Date:**	03/06/2017 16:14	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-2			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000203.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 13:12	**Quant Date:**	03/06/2017 16:14	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-2			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000203.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 13:12:28 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:24 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:35 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
18) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
	Target Compounds				
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2) T	HMX	0.000	0	N.D.	ug/L
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4) T	RDX	0.000	0	N.D.	ug/L
5) T	1,3,5-TNB	0.000	0	N.D.	ug/L
6) T	1,3-DNB	0.000	0	N.D.	ug/L
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8) T	Tetryl	0.000	0	N.D.	ug/L
9) T	Nitrobenzene	0.000	0	N.D.	ug/L
10) T	2,4,6-TNT	0.000	0	N.D.	ug/L
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13) T	2,6-DNT	0.000	0	N.D.	ug/L
14) T	2,4-DNT	0.000	0	N.D.	ug/L
15) T	2-NT	0.000	0	N.D.	ug/L
16) T	4-NT	0.000	0	N.D.	ug/L
17) T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] (g) (g) 03/14/17
03/29/17

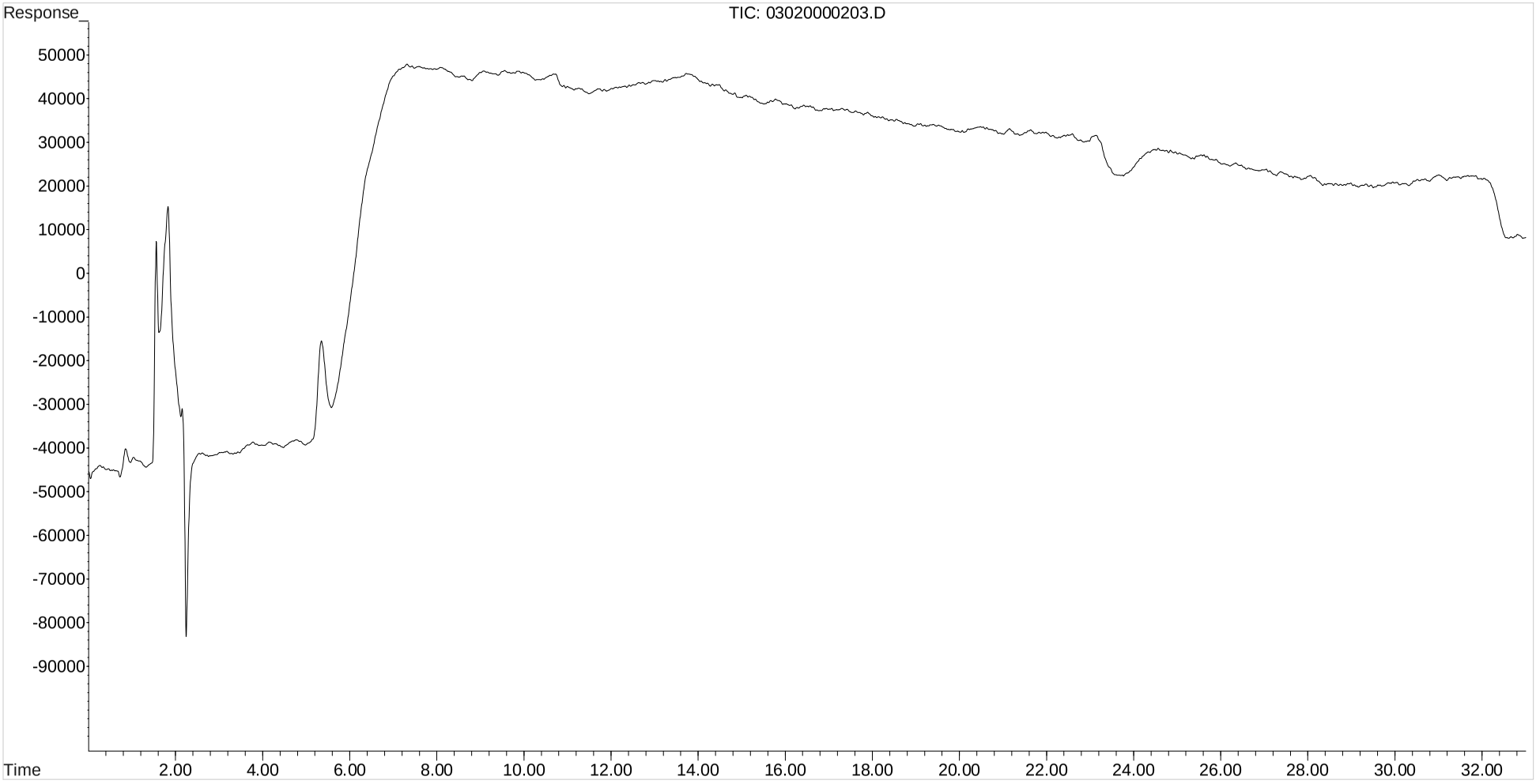
11/01/2018

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000203.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 13:12:28 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:24 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:35 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



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012924

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000203.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 13:12:28 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:24 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:35 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
18) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
	Target Compounds				
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2) T	HMX	0.000	0	N.D.	ug/L
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4) T	RDX	0.000	0	N.D.	ug/L
5) T	1,3,5-TNB	0.000	0	N.D.	ug/L
6) T	1,3-DNB	0.000	0	N.D.	ug/L
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8) T	Tetryl	0.000	0	N.D.	ug/L
9) T	Nitrobenzene	0.000	0	N.D.	ug/L
10) T	2,4,6-TNT	0.000	0	N.D.	ug/L
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13) T	2,6-DNT	0.000	0	N.D.	ug/L
14) T	2,4-DNT	0.000	0	N.D.	ug/L
15) T	2-NT	0.000	0	N.D.	ug/L
16) T	4-NT	0.000	0	N.D.	ug/L
17) T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] 03/14/17
(6)(6) 03/29/17

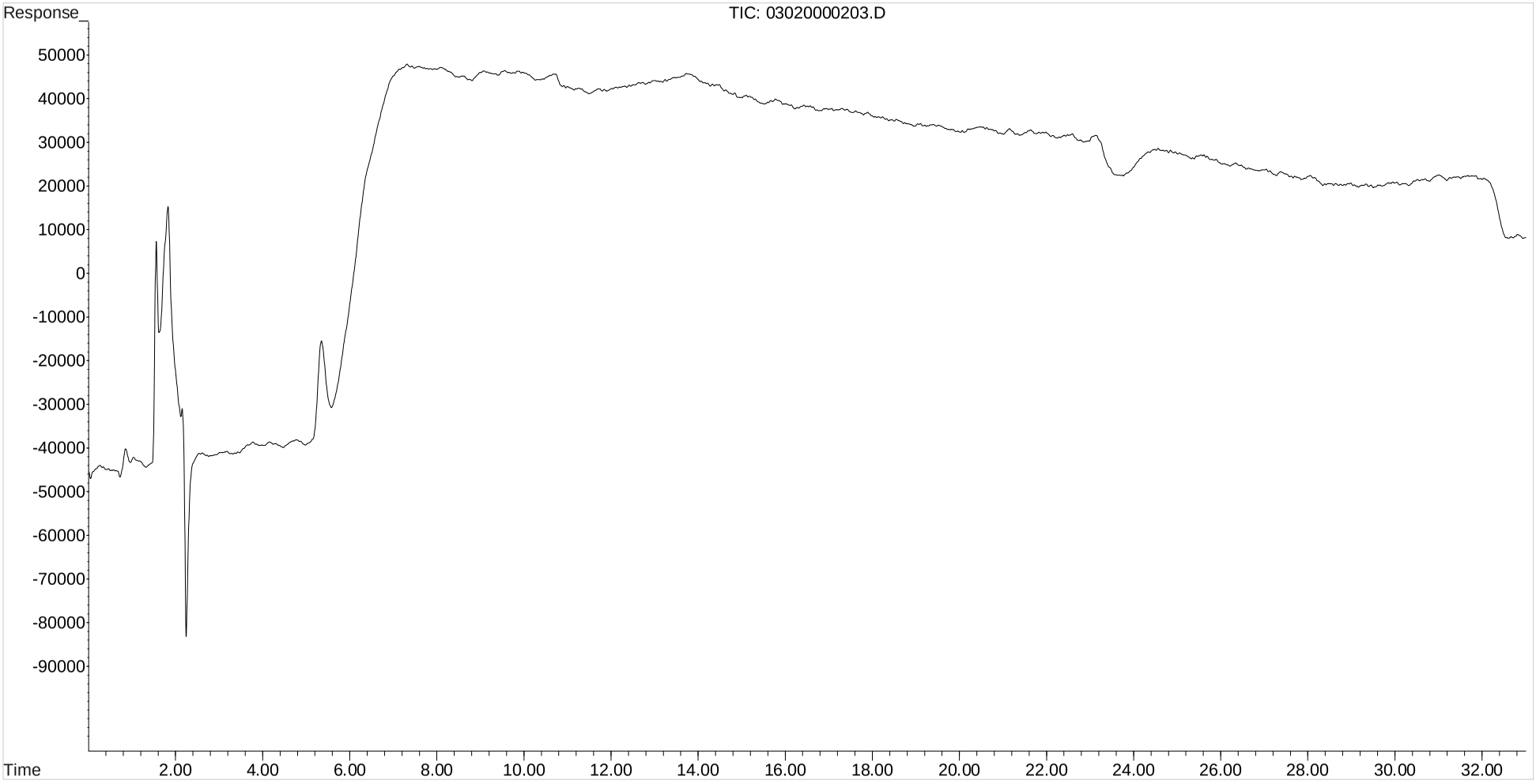
11/01/2018

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000203.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 13:12:28 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:24 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:35 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



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012926

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000203.
Lab ID: KWG1701858-2
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/02/2017 13:12
Date Quantitated: 03/06/2017 16:14
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000203.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 13:12	**Quant Date:**	03/06/2017 16:14	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-2			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000203.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 13:12	**Quant Date:**	03/06/2017 16:14	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-2			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000203.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 13:12:28 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:24 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:35 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
18) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
	Target Compounds				
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2) T	HMX	0.000	0	N.D.	ug/L
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4) T	RDX	0.000	0	N.D.	ug/L
5) T	1,3,5-TNB	0.000	0	N.D.	ug/L
6) T	1,3-DNB	0.000	0	N.D.	ug/L
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8) T	Tetryl	0.000	0	N.D.	ug/L
9) T	Nitrobenzene	0.000	0	N.D.	ug/L
10) T	2,4,6-TNT	0.000	0	N.D.	ug/L
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13) T	2,6-DNT	0.000	0	N.D.	ug/L
14) T	2,4-DNT	0.000	0	N.D.	ug/L
15) T	2-NT	0.000	0	N.D.	ug/L
16) T	4-NT	0.000	0	N.D.	ug/L
17) T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] (b) (6)

03/14/17

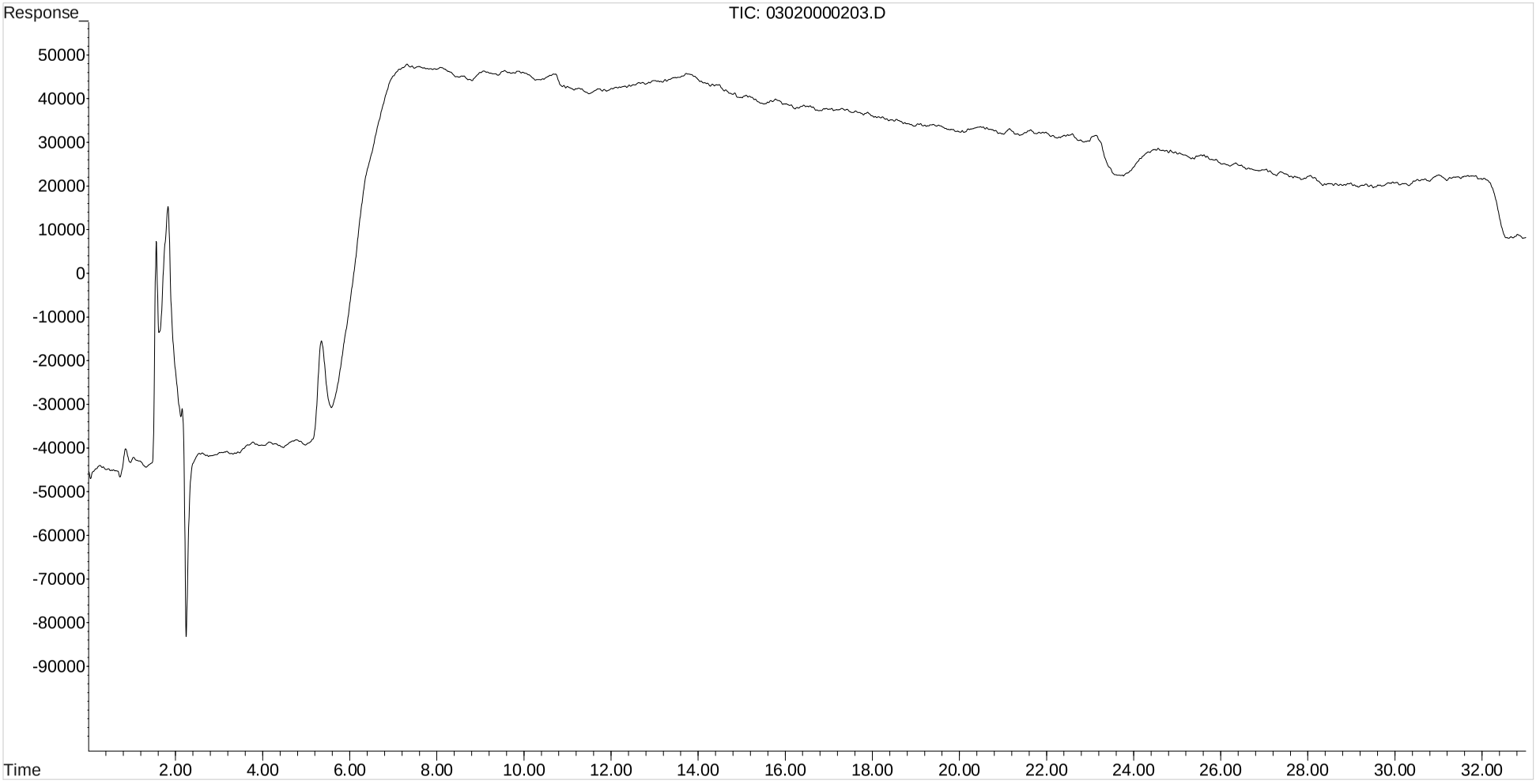
03/29/17

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000203.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 13:12:28 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:24 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:35 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000203.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 13:12:28 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:24 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:35 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
18) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
	Target Compounds				
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2) T	HMX	0.000	0	N.D.	ug/L
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4) T	RDX	0.000	0	N.D.	ug/L
5) T	1,3,5-TNB	0.000	0	N.D.	ug/L
6) T	1,3-DNB	0.000	0	N.D.	ug/L
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8) T	Tetryl	0.000	0	N.D.	ug/L
9) T	Nitrobenzene	0.000	0	N.D.	ug/L
10) T	2,4,6-TNT	0.000	0	N.D.	ug/L
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13) T	2,6-DNT	0.000	0	N.D.	ug/L
14) T	2,4-DNT	0.000	0	N.D.	ug/L
15) T	2-NT	0.000	0	N.D.	ug/L
16) T	4-NT	0.000	0	N.D.	ug/L
17) T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] 03/14/17
(9) (g) 03/29/17

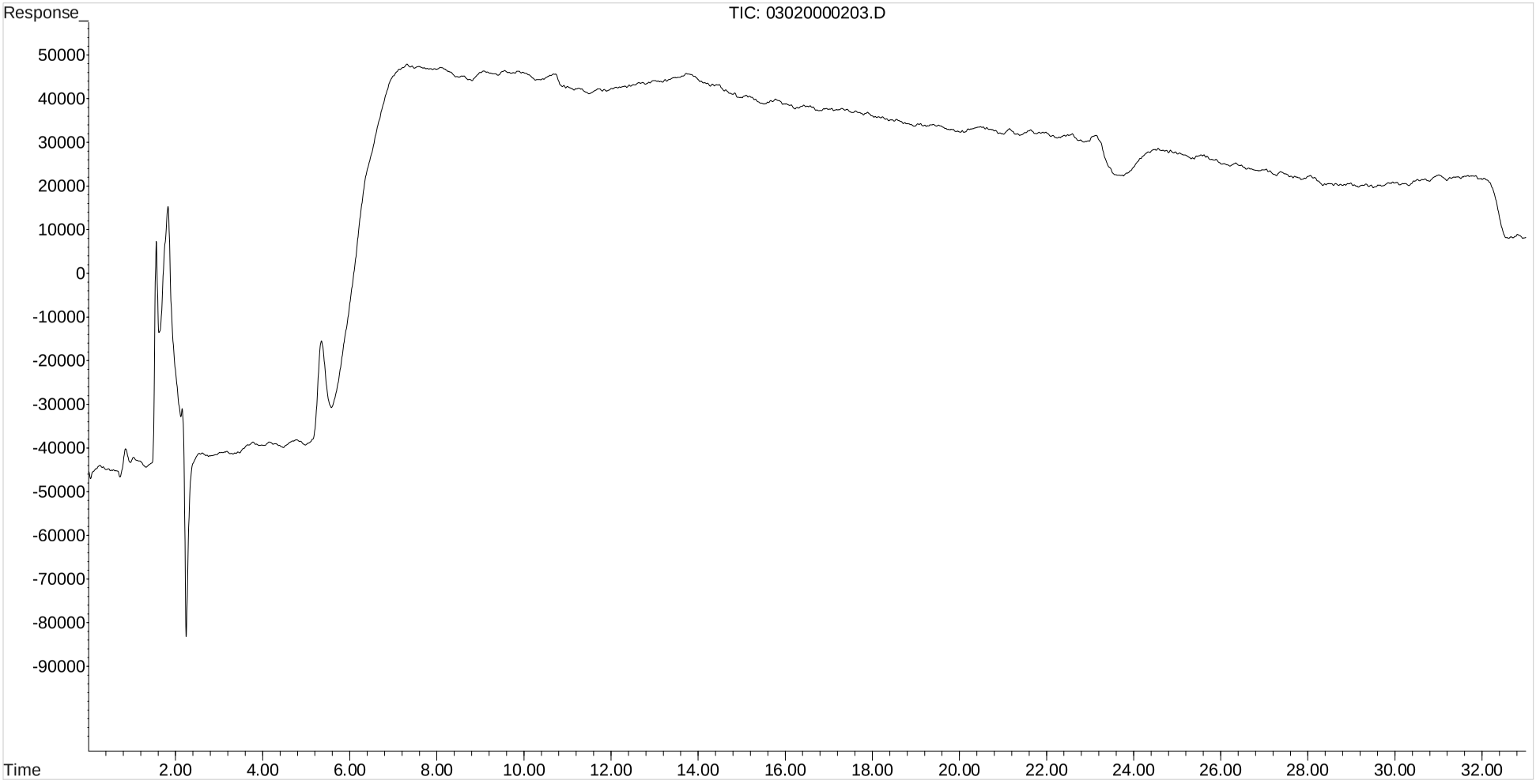
11/01/2018

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000203.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 13:12:28 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:24 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:35 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



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012933

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000211.
Lab ID: KWG1701858-4
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/02/2017 18:02
Date Quantitated: 03/06/2017 16:14
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000211.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 18:02	**Quant Date:**	03/06/2017 16:14	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-4			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000211.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 18:02	**Quant Date:**	03/06/2017 16:14	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701858-4			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000211.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 18:02	**Quant Date:**	03/06/2017 16:14	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-4			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000211.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 18:02:18 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:41 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	0.000	0	N.D.	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	0.000	0	N.D.	ug/L
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L
6)	T	1,3-DNB	0.000	0	N.D.	ug/L
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8)	T	Tetryl	0.000	0	N.D.	ug/L
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13)	T	2,6-DNT	0.000	0	N.D.	ug/L
14)	T	2,4-DNT	0.000	0	N.D.	ug/L
15)	T	2-NT	0.000	0	N.D.	ug/L
16)	T	4-NT	0.000	0	N.D.	ug/L
17)	T	3-NT	0.000	0	N.D.	ug/L

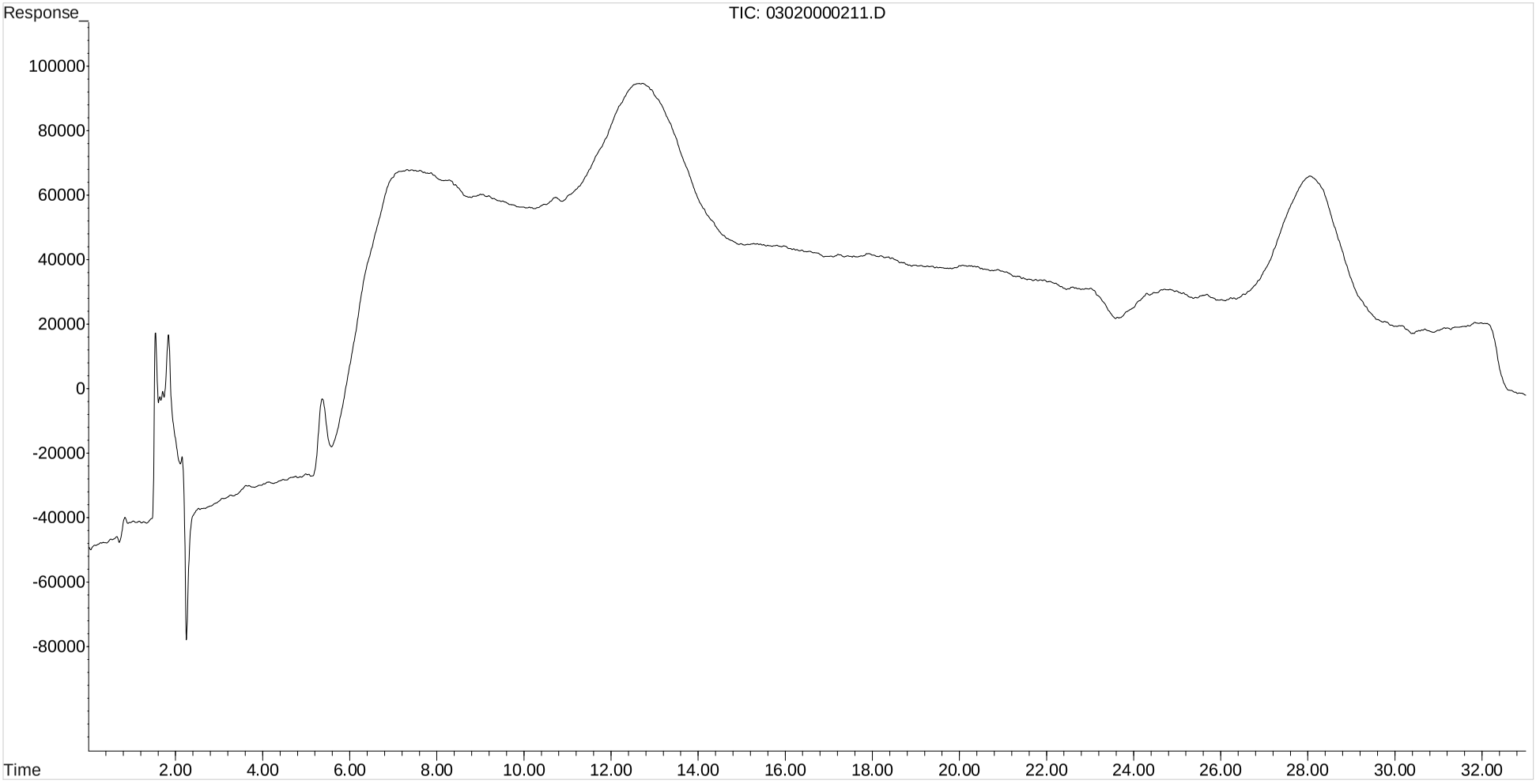
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000211.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 18:02:18 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:41 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000211.
Lab ID: KWG1701858-4
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/02/2017 18:02
Date Quantitated: 03/06/2017 16:14
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000211.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 18:02	**Quant Date:**	03/06/2017 16:14	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-4			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000211.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 18:02	**Quant Date:**	03/06/2017 16:14	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701858-4			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000211.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 18:02	**Quant Date:**	03/06/2017 16:14	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-4			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000211.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 18:02:18 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:41 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
18) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
	Target Compounds				
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2) T	HMX	0.000	0	N.D.	ug/L
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4) T	RDX	0.000	0	N.D.	ug/L
5) T	1,3,5-TNB	0.000	0	N.D.	ug/L
6) T	1,3-DNB	0.000	0	N.D.	ug/L
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8) T	Tetryl	0.000	0	N.D.	ug/L
9) T	Nitrobenzene	0.000	0	N.D.	ug/L
10) T	2,4,6-TNT	0.000	0	N.D.	ug/L
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13) T	2,6-DNT	0.000	0	N.D.	ug/L
14) T	2,4-DNT	0.000	0	N.D.	ug/L
15) T	2-NT	0.000	0	N.D.	ug/L
16) T	4-NT	0.000	0	N.D.	ug/L
17) T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] 03/14/17
03/29/17

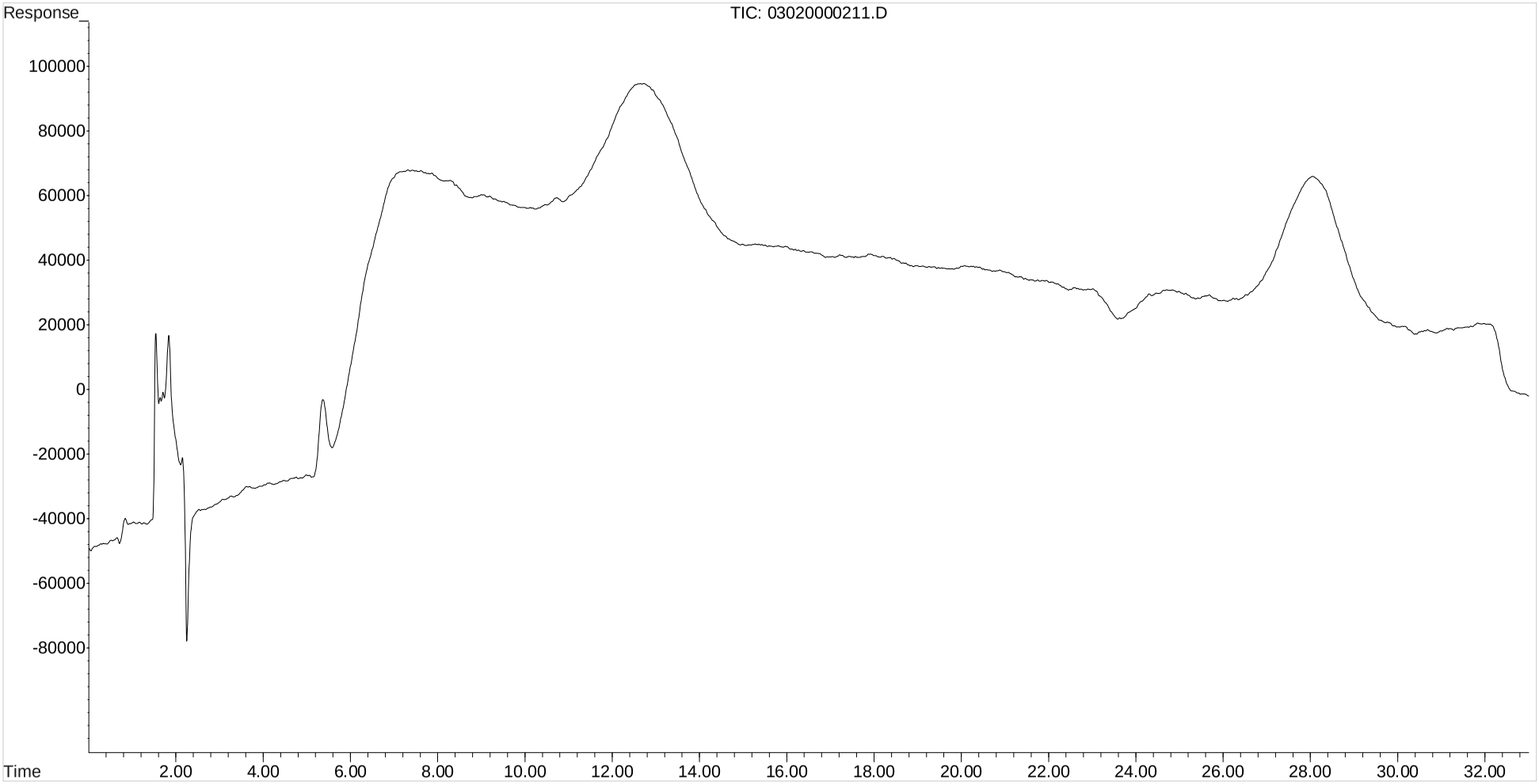
Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000211.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 18:02:18 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:41 2017
Quant Results File: 120716_8330B@254.RES

11/01/2018

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000211.
Lab ID: KWG1701858-4
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/02/2017 18:02
Date Quantitated: 03/06/2017 16:14
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000211.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 18:02	**Quant Date:**	03/06/2017 16:14	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-4			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000211.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 18:02	**Quant Date:**	03/06/2017 16:14	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701858-4			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000211.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 18:02	**Quant Date:**	03/06/2017 16:14	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-4			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000211.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 18:02:18 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:41 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
18) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
	Target Compounds				
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2) T	HMX	0.000	0	N.D.	ug/L
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4) T	RDX	0.000	0	N.D.	ug/L
5) T	1,3,5-TNB	0.000	0	N.D.	ug/L
6) T	1,3-DNB	0.000	0	N.D.	ug/L
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8) T	Tetryl	0.000	0	N.D.	ug/L
9) T	Nitrobenzene	0.000	0	N.D.	ug/L
10) T	2,4,6-TNT	0.000	0	N.D.	ug/L
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13) T	2,6-DNT	0.000	0	N.D.	ug/L
14) T	2,4-DNT	0.000	0	N.D.	ug/L
15) T	2-NT	0.000	0	N.D.	ug/L
16) T	4-NT	0.000	0	N.D.	ug/L
17) T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] (9) (g) 3/14/17
3/29/17

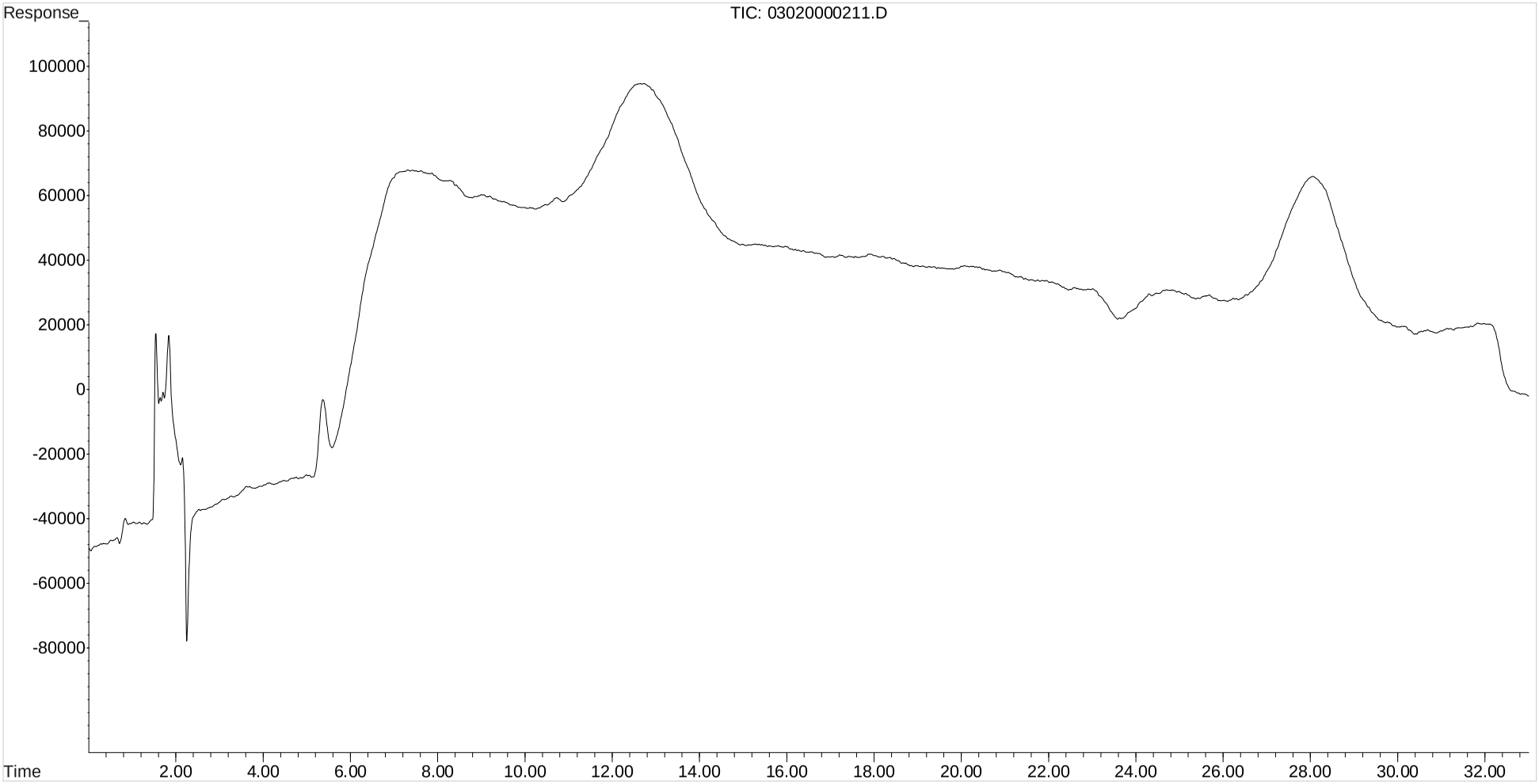
11/01/2018

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000211.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 18:02:18 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:41 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



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012951

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000211.
Lab ID: KWG1701858-4
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/02/2017 18:02
Date Quantitated: 03/06/2017 16:14
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000211.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 18:02	**Quant Date:**	03/06/2017 16:14	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-4			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000211.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 18:02	**Quant Date:**	03/06/2017 16:14	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701858-4			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000211.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 18:02	**Quant Date:**	03/06/2017 16:14	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-4			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000211.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 18:02:18 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:41 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
18) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
	Target Compounds				
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2) T	HMX	0.000	0	N.D.	ug/L
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4) T	RDX	0.000	0	N.D.	ug/L
5) T	1,3,5-TNB	0.000	0	N.D.	ug/L
6) T	1,3-DNB	0.000	0	N.D.	ug/L
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8) T	Tetryl	0.000	0	N.D.	ug/L
9) T	Nitrobenzene	0.000	0	N.D.	ug/L
10) T	2,4,6-TNT	0.000	0	N.D.	ug/L
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13) T	2,6-DNT	0.000	0	N.D.	ug/L
14) T	2,4-DNT	0.000	0	N.D.	ug/L
15) T	2-NT	0.000	0	N.D.	ug/L
16) T	4-NT	0.000	0	N.D.	ug/L
17) T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] 03/14/17
(g) (g) 03/29/17

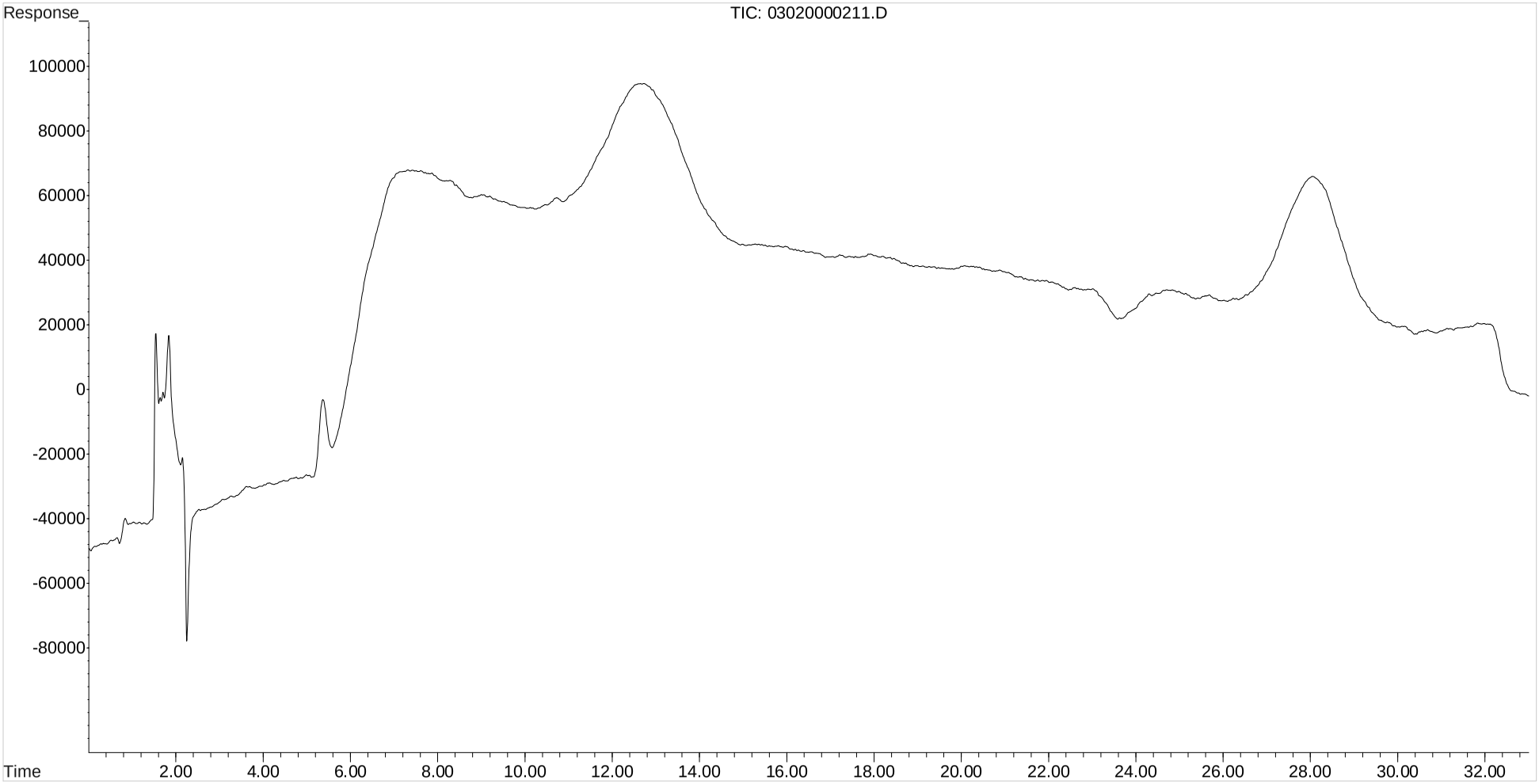
11/01/2018

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000211.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 18:02:18 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:41 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



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012957

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000211.
Lab ID: KWG1701858-4
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/02/2017 18:02
Date Quantitated: 03/06/2017 16:14
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000211.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 18:02	**Quant Date:**	03/06/2017 16:14	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-4			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000211.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 18:02	**Quant Date:**	03/06/2017 16:14	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701858-4			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000211.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 18:02	**Quant Date:**	03/06/2017 16:14	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-4			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000211.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 18:02:18 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:41 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
18) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
	Target Compounds				
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2) T	HMX	0.000	0	N.D.	ug/L
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4) T	RDX	0.000	0	N.D.	ug/L
5) T	1,3,5-TNB	0.000	0	N.D.	ug/L
6) T	1,3-DNB	0.000	0	N.D.	ug/L
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8) T	Tetryl	0.000	0	N.D.	ug/L
9) T	Nitrobenzene	0.000	0	N.D.	ug/L
10) T	2,4,6-TNT	0.000	0	N.D.	ug/L
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13) T	2,6-DNT	0.000	0	N.D.	ug/L
14) T	2,4-DNT	0.000	0	N.D.	ug/L
15) T	2-NT	0.000	0	N.D.	ug/L
16) T	4-NT	0.000	0	N.D.	ug/L
17) T	3-NT	0.000	0	N.D.	ug/L

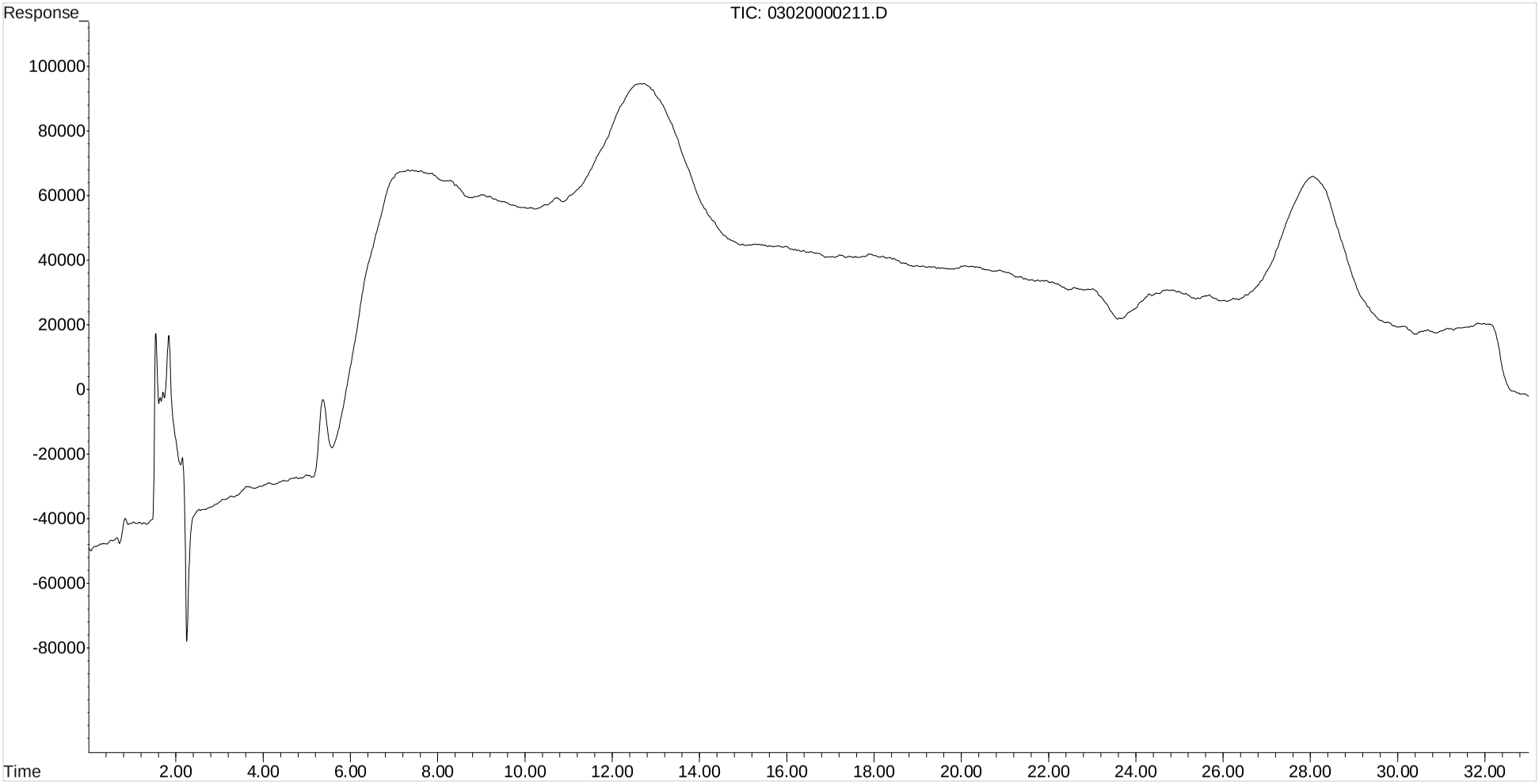
(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] (b) (6)
03/14/17
03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000211.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 18:02:18 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:41 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



11/01/2018

012963

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000211.
Lab ID: KWG1701858-4
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/02/2017 18:02
Date Quantitated: 03/06/2017 16:14
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000211.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 18:02	**Quant Date:**	03/06/2017 16:14	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-4			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000211.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 18:02	**Quant Date:**	03/06/2017 16:14	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701858-4			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000211.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 18:02	**Quant Date:**	03/06/2017 16:14	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-4			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000211.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 18:02:18 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:41 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
18) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
	Target Compounds				
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2) T	HMX	0.000	0	N.D.	ug/L
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4) T	RDX	0.000	0	N.D.	ug/L
5) T	1,3,5-TNB	0.000	0	N.D.	ug/L
6) T	1,3-DNB	0.000	0	N.D.	ug/L
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8) T	Tetryl	0.000	0	N.D.	ug/L
9) T	Nitrobenzene	0.000	0	N.D.	ug/L
10) T	2,4,6-TNT	0.000	0	N.D.	ug/L
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13) T	2,6-DNT	0.000	0	N.D.	ug/L
14) T	2,4-DNT	0.000	0	N.D.	ug/L
15) T	2-NT	0.000	0	N.D.	ug/L
16) T	4-NT	0.000	0	N.D.	ug/L
17) T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

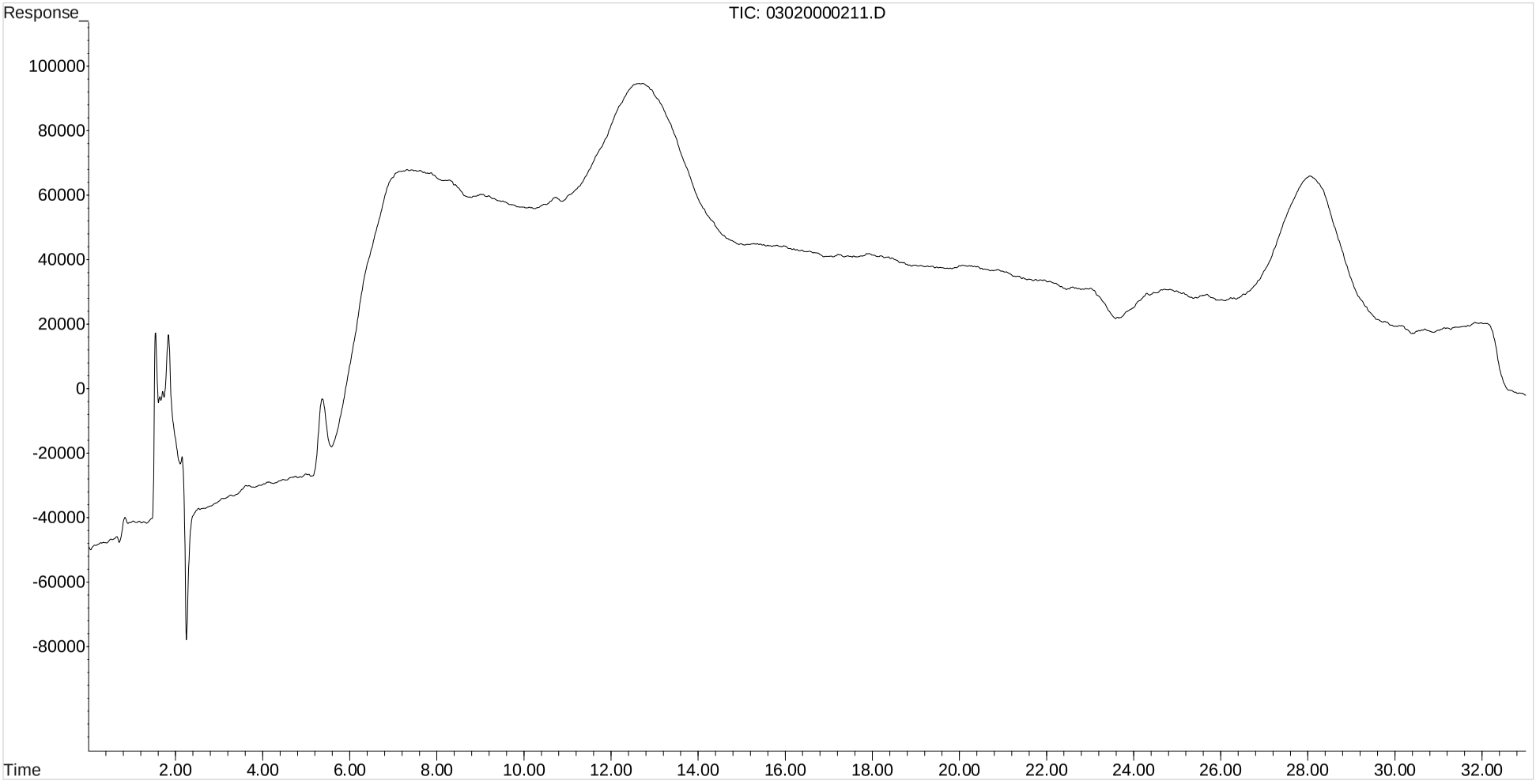
Quantitation Report (QT Reviewed)

[redacted] 03/14/17
03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000211.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 02-Mar-2017, 18:02:18 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:14:41 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000222.
Lab ID: KWG1701858-6
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 00:40
Date Quantitated: 03/06/2017 16:15
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000222.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 00:40	**Quant Date:**	03/06/2017 16:15	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-6			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000222.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 00:40	**Quant Date:**	03/06/2017 16:15	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701858-6			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000222.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 00:40	**Quant Date:**	03/06/2017 16:15	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-6			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000222.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 00:40:54 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:03 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
18) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
	Target Compounds				
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2) T	HMX	0.000	0	N.D.	ug/L
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4) T	RDX	0.000	0	N.D.	ug/L
5) T	1,3,5-TNB	0.000	0	N.D.	ug/L
6) T	1,3-DNB	0.000	0	N.D.	ug/L
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8) T	Tetryl	0.000	0	N.D.	ug/L
9) T	Nitrobenzene	0.000	0	N.D.	ug/L
10) T	2,4,6-TNT	0.000	0	N.D.	ug/L
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13) T	2,6-DNT	0.000	0	N.D.	ug/L
14) T	2,4-DNT	0.000	0	N.D.	ug/L
15) T	2-NT	0.000	0	N.D.	ug/L
16) T	4-NT	0.000	0	N.D.	ug/L
17) T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

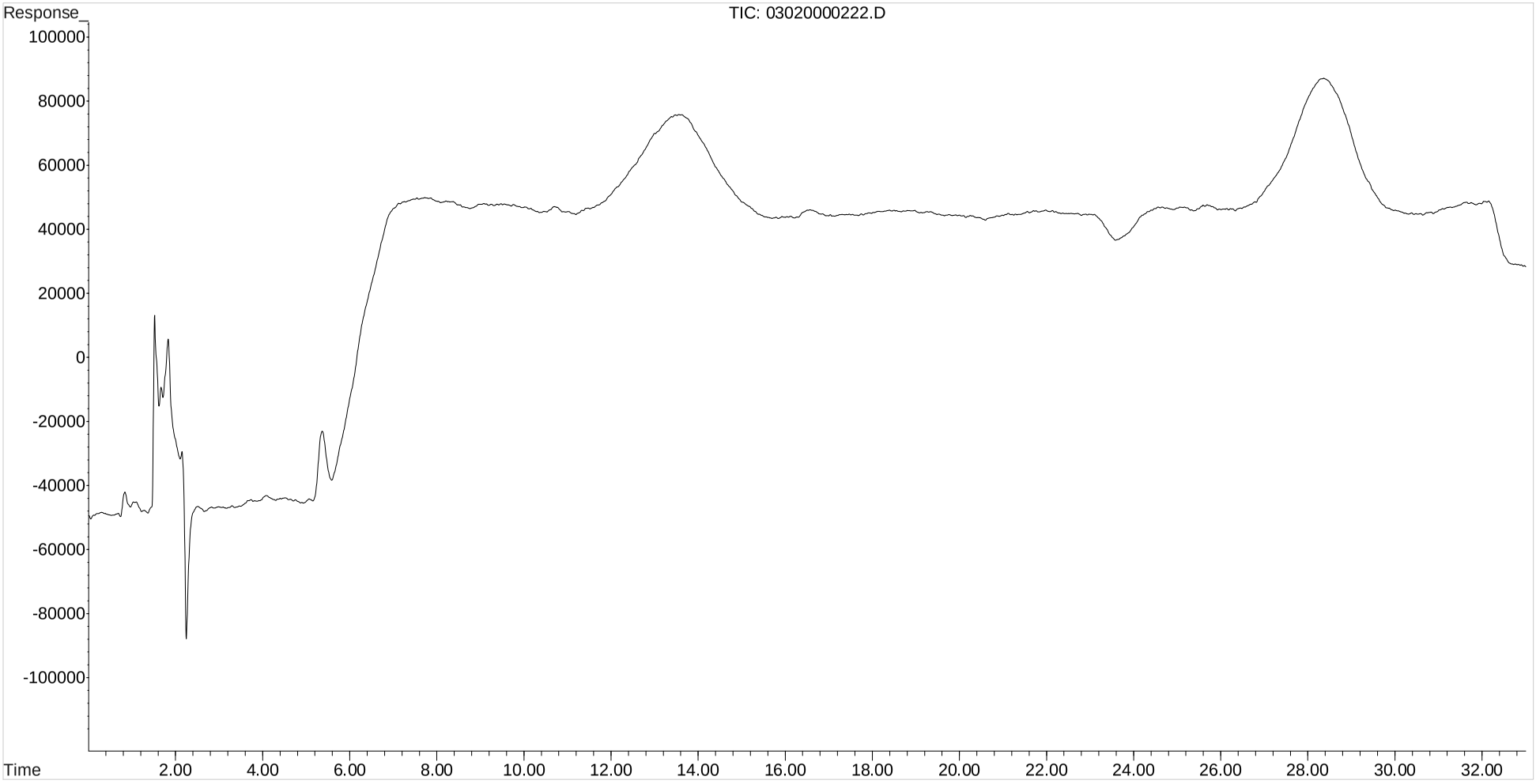
Quantitation Report (QT Reviewed)

[redacted] 03/14/17
03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000222.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 00:40:54 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:03 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000222.
Lab ID: KWG1701858-6
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 00:40
Date Quantitated: 03/06/2017 16:15
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000222.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 00:40	**Quant Date:**	03/06/2017 16:15	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-6			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000222.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 00:40	**Quant Date:**	03/06/2017 16:15	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701858-6			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000222.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 00:40	**Quant Date:**	03/06/2017 16:15	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-6			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000222.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 00:40:54 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:03 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
18) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
	Target Compounds				
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2) T	HMX	0.000	0	N.D.	ug/L
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4) T	RDX	0.000	0	N.D.	ug/L
5) T	1,3,5-TNB	0.000	0	N.D.	ug/L
6) T	1,3-DNB	0.000	0	N.D.	ug/L
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8) T	Tetryl	0.000	0	N.D.	ug/L
9) T	Nitrobenzene	0.000	0	N.D.	ug/L
10) T	2,4,6-TNT	0.000	0	N.D.	ug/L
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13) T	2,6-DNT	0.000	0	N.D.	ug/L
14) T	2,4-DNT	0.000	0	N.D.	ug/L
15) T	2-NT	0.000	0	N.D.	ug/L
16) T	4-NT	0.000	0	N.D.	ug/L
17) T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

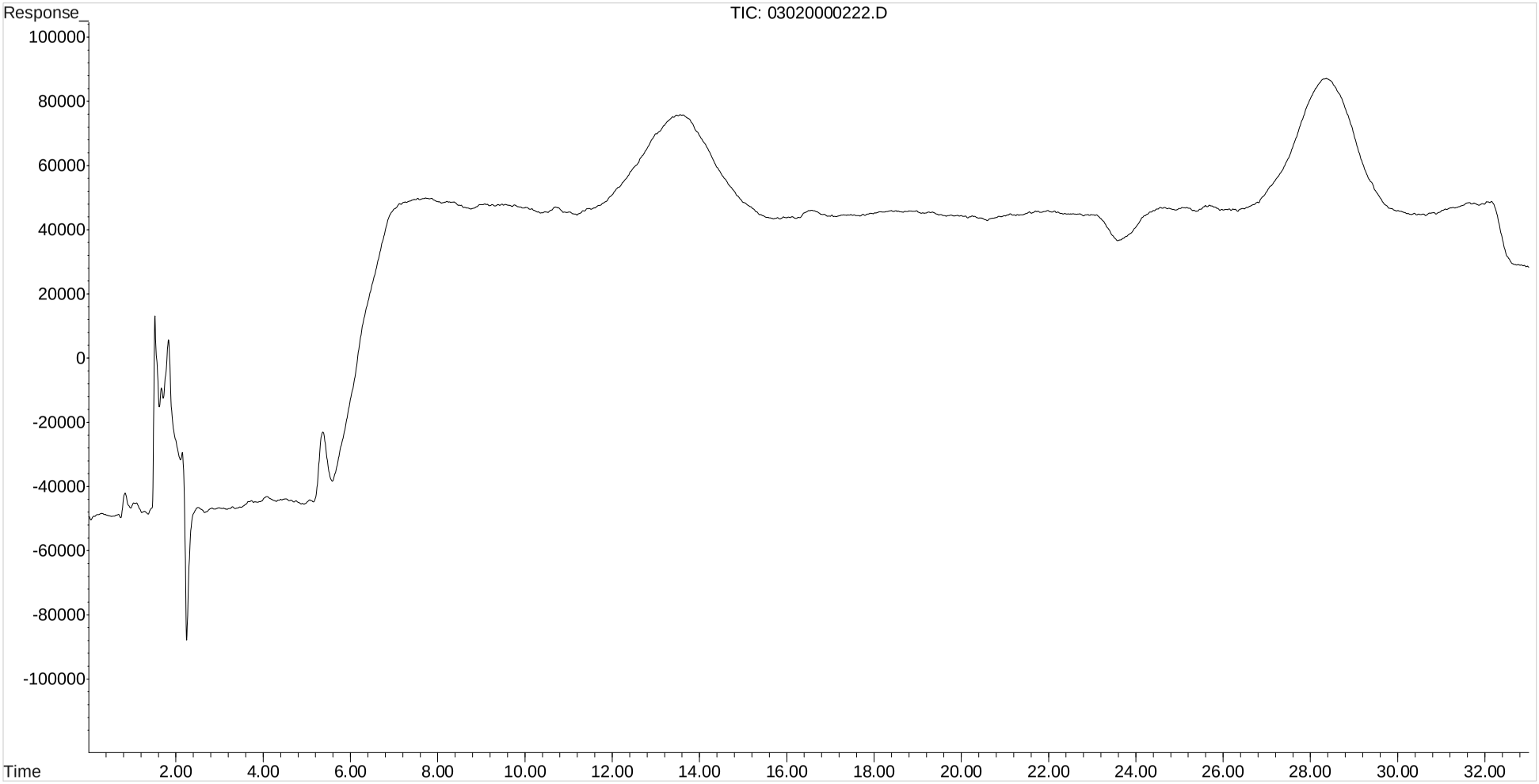
Quantitation Report (QT Reviewed)

[redacted] (b) (6)
03/14/17
03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000222.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 00:40:54 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:03 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000222.
Lab ID: KWG1701858-6
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 00:40
Date Quantitated: 03/06/2017 16:15
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000222.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 00:40	**Quant Date:**	03/06/2017 16:15	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-6			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000222.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 00:40	**Quant Date:**	03/06/2017 16:15	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701858-6			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000222.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 00:40	**Quant Date:**	03/06/2017 16:15	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-6			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000222.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 00:40:54 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:03 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
18) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
	Target Compounds				
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2) T	HMX	0.000	0	N.D.	ug/L
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4) T	RDX	0.000	0	N.D.	ug/L
5) T	1,3,5-TNB	0.000	0	N.D.	ug/L
6) T	1,3-DNB	0.000	0	N.D.	ug/L
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8) T	Tetryl	0.000	0	N.D.	ug/L
9) T	Nitrobenzene	0.000	0	N.D.	ug/L
10) T	2,4,6-TNT	0.000	0	N.D.	ug/L
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13) T	2,6-DNT	0.000	0	N.D.	ug/L
14) T	2,4-DNT	0.000	0	N.D.	ug/L
15) T	2-NT	0.000	0	N.D.	ug/L
16) T	4-NT	0.000	0	N.D.	ug/L
17) T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] 03/14/17
(g) (g) 03/29/17

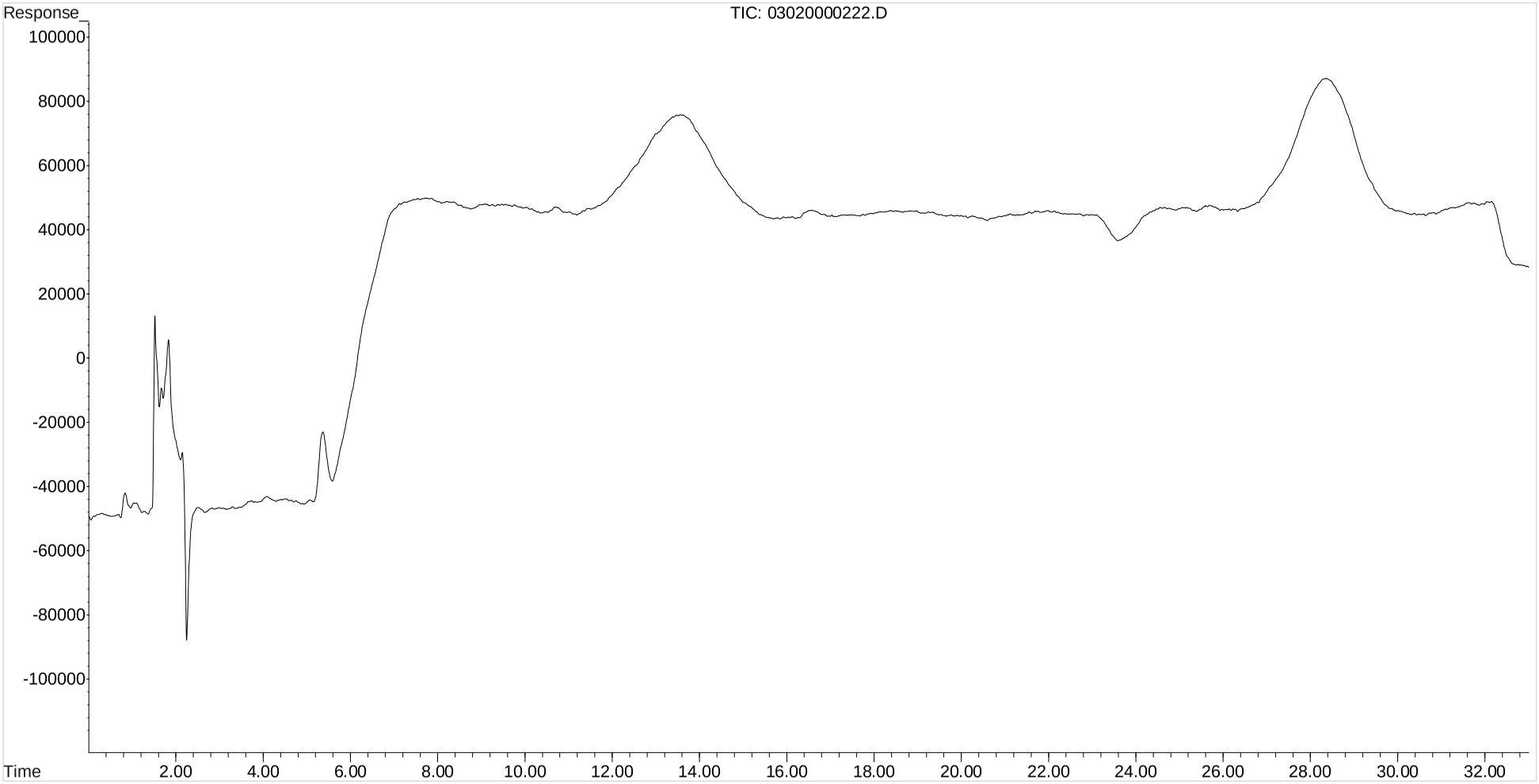
11/01/2018

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000222.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 00:40:54 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:03 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



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012987

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000222.
Lab ID: KWG1701858-6
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 00:40
Date Quantitated: 03/06/2017 16:15
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000222.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 00:40	**Quant Date:**	03/06/2017 16:15	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-6			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000222.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 00:40	**Quant Date:**	03/06/2017 16:15	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701858-6			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000222.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 00:40	**Quant Date:**	03/06/2017 16:15	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-6			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000222.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 00:40:54 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:03 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
18) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
	Target Compounds				
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2) T	HMX	0.000	0	N.D.	ug/L
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4) T	RDX	0.000	0	N.D.	ug/L
5) T	1,3,5-TNB	0.000	0	N.D.	ug/L
6) T	1,3-DNB	0.000	0	N.D.	ug/L
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8) T	Tetryl	0.000	0	N.D.	ug/L
9) T	Nitrobenzene	0.000	0	N.D.	ug/L
10) T	2,4,6-TNT	0.000	0	N.D.	ug/L
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13) T	2,6-DNT	0.000	0	N.D.	ug/L
14) T	2,4-DNT	0.000	0	N.D.	ug/L
15) T	2-NT	0.000	0	N.D.	ug/L
16) T	4-NT	0.000	0	N.D.	ug/L
17) T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] (g) (6) 03/14/17 03/29/17

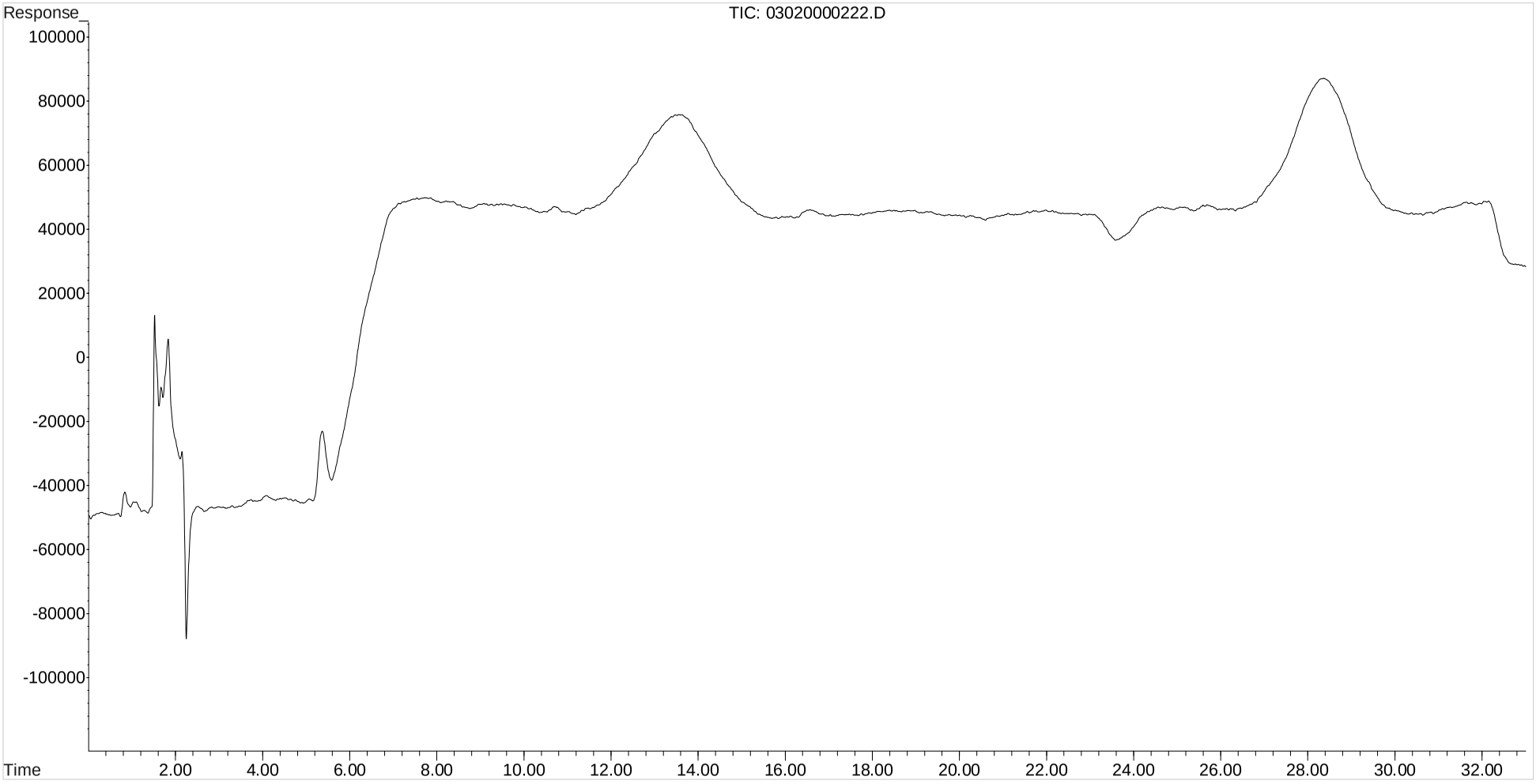
11/01/2018

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000222.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 00:40:54 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:03 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



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012993

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000222.
Lab ID: KWG1701858-6
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 00:40
Date Quantitated: 03/06/2017 16:15
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000222.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 00:40	**Quant Date:**	03/06/2017 16:15	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-6			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000222.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 00:40	**Quant Date:**	03/06/2017 16:15	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701858-6			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000222.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 00:40	**Quant Date:**	03/06/2017 16:15	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-6			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000222.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 00:40:54 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:03 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
18) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
	Target Compounds				
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2) T	HMX	0.000	0	N.D.	ug/L
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4) T	RDX	0.000	0	N.D.	ug/L
5) T	1,3,5-TNB	0.000	0	N.D.	ug/L
6) T	1,3-DNB	0.000	0	N.D.	ug/L
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8) T	Tetryl	0.000	0	N.D.	ug/L
9) T	Nitrobenzene	0.000	0	N.D.	ug/L
10) T	2,4,6-TNT	0.000	0	N.D.	ug/L
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13) T	2,6-DNT	0.000	0	N.D.	ug/L
14) T	2,4-DNT	0.000	0	N.D.	ug/L
15) T	2-NT	0.000	0	N.D.	ug/L
16) T	4-NT	0.000	0	N.D.	ug/L
17) T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

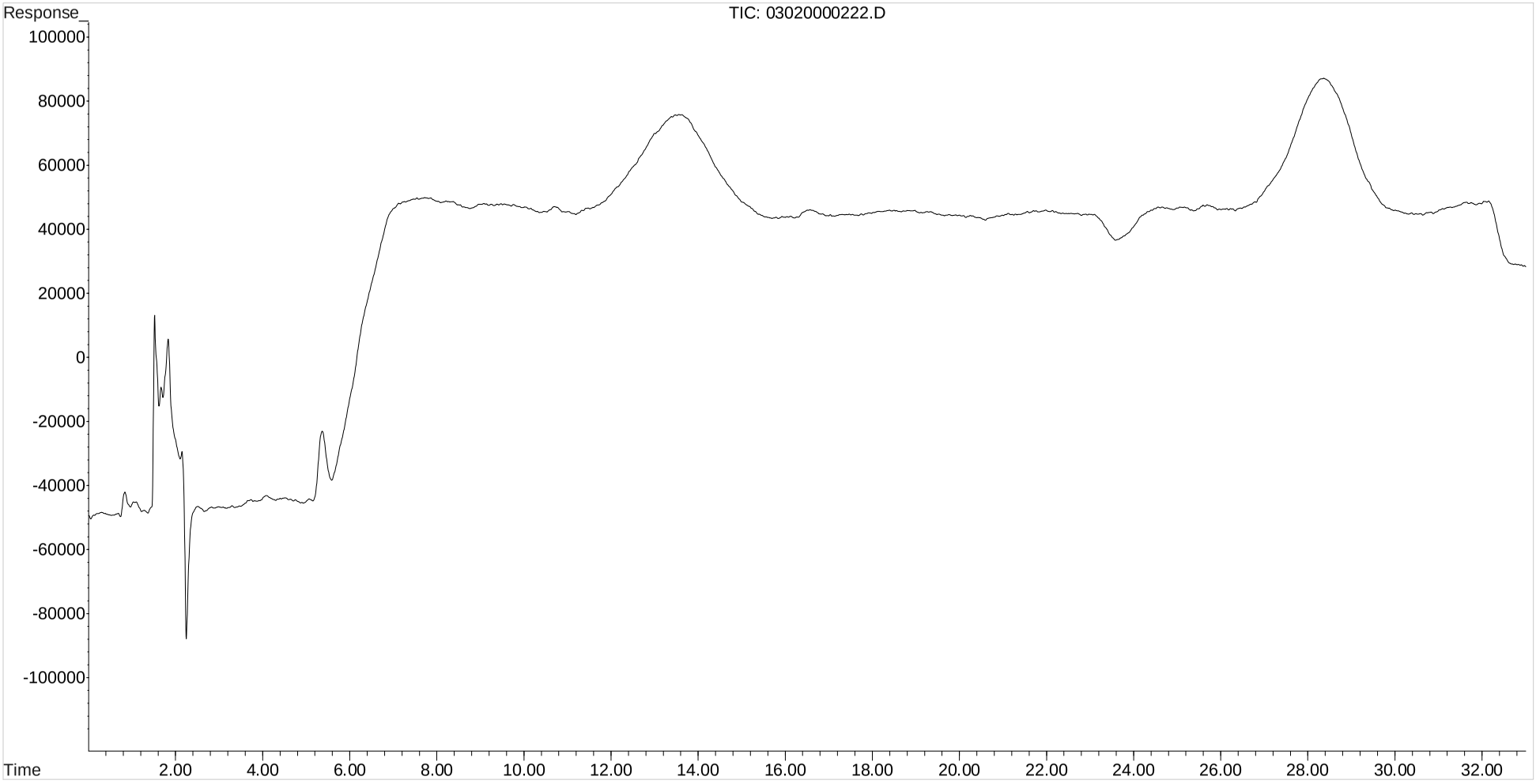
[redacted] (6) (6) 3/14/17 3/29/17

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000222.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 00:40:54 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:03 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



012999

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000222.
Lab ID: KWG1701858-6
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 00:40
Date Quantitated: 03/06/2017 16:15
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000222.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 00:40	**Quant Date:**	03/06/2017 16:15	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-6			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000222.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 00:40	**Quant Date:**	03/06/2017 16:15	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701858-6			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
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e: Result >= MRL, but MRL less than low point of ICAL
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Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000222.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 00:40	**Quant Date:**	03/06/2017 16:15	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-6			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
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?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
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Data File : J:\LC10\Data\030317_8330_254\03020000222.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 00:40:54 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:03 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
18) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
	Target Compounds				
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2) T	HMX	0.000	0	N.D.	ug/L
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4) T	RDX	0.000	0	N.D.	ug/L
5) T	1,3,5-TNB	0.000	0	N.D.	ug/L
6) T	1,3-DNB	0.000	0	N.D.	ug/L
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8) T	Tetryl	0.000	0	N.D.	ug/L
9) T	Nitrobenzene	0.000	0	N.D.	ug/L
10) T	2,4,6-TNT	0.000	0	N.D.	ug/L
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13) T	2,6-DNT	0.000	0	N.D.	ug/L
14) T	2,4-DNT	0.000	0	N.D.	ug/L
15) T	2-NT	0.000	0	N.D.	ug/L
16) T	4-NT	0.000	0	N.D.	ug/L
17) T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] (9) (g) 3/14/17
3/29/17

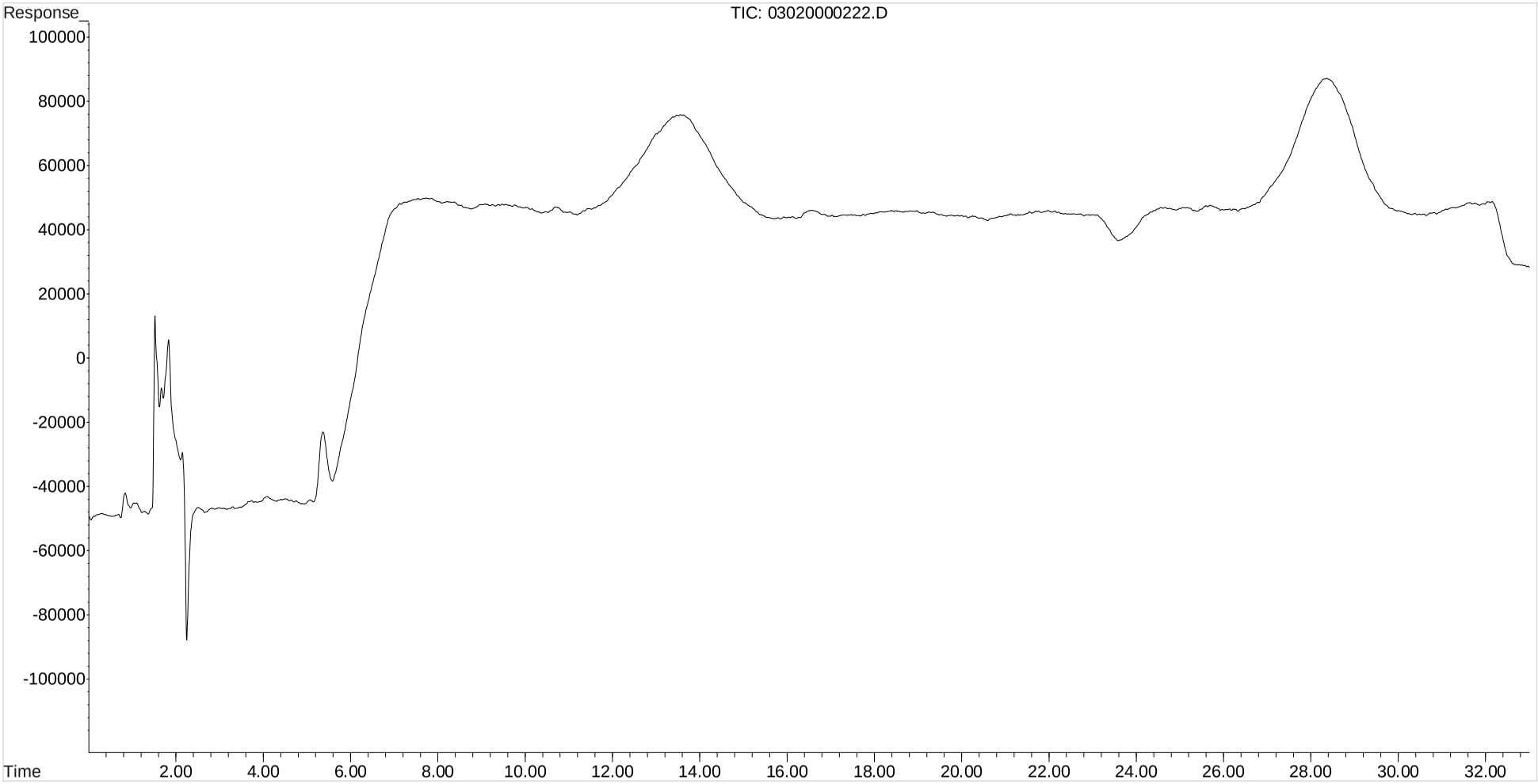
11/01/2018

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000222.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 00:40:54 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:03 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



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013005

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000228.
Lab ID: KWG1701858-8
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 04:18
Date Quantitated: 03/06/2017 16:15
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000228.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 04:18	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-8			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000228.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 04:18	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701858-8			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000228.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 04:18	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-8			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000228.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 04:18:19 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:15 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	0.000	0	N.D.	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	0.000	0	N.D.	ug/L
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L
6)	T	1,3-DNB	0.000	0	N.D.	ug/L
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8)	T	Tetryl	0.000	0	N.D.	ug/L
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13)	T	2,6-DNT	0.000	0	N.D.	ug/L
14)	T	2,4-DNT	0.000	0	N.D.	ug/L
15)	T	2-NT	0.000	0	N.D.	ug/L
16)	T	4-NT	0.000	0	N.D.	ug/L
17)	T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] 3/14/17
(b) (6) 3/29/17

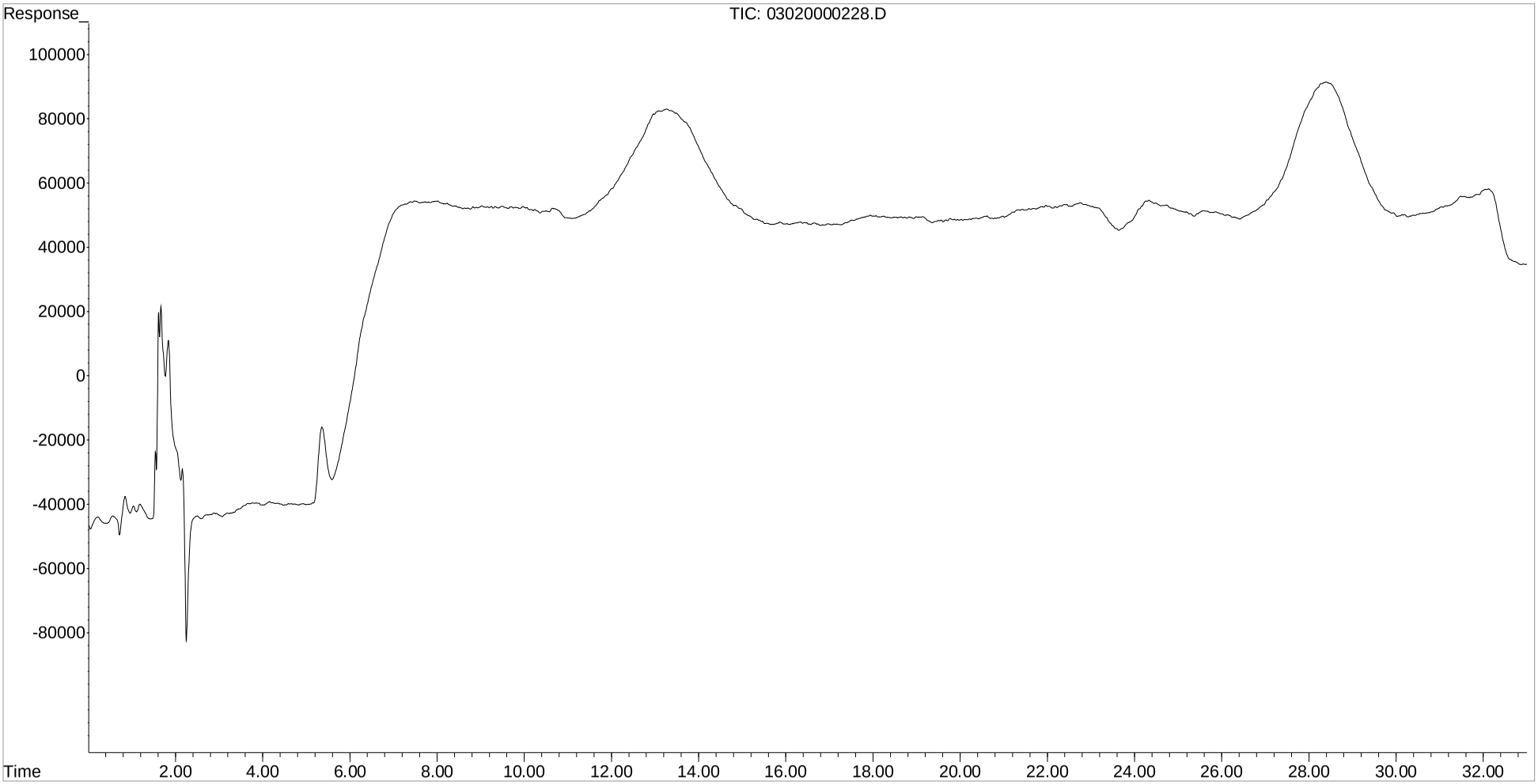
Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000228.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 04:18:19 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:15 2017
Quant Results File: 120716_8330B@254.RES

11/01/2018

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



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Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000228.
Lab ID: KWG1701858-8
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 04:18
Date Quantitated: 03/06/2017 16:15
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000228.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 04:18	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-8			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000228.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 04:18	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701858-8			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000228.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 04:18	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-8			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000228.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 04:18:19 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:15 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	0.000	0	N.D.	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	0.000	0	N.D.	ug/L
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L
6)	T	1,3-DNB	0.000	0	N.D.	ug/L
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8)	T	Tetryl	0.000	0	N.D.	ug/L
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13)	T	2,6-DNT	0.000	0	N.D.	ug/L
14)	T	2,4-DNT	0.000	0	N.D.	ug/L
15)	T	2-NT	0.000	0	N.D.	ug/L
16)	T	4-NT	0.000	0	N.D.	ug/L
17)	T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

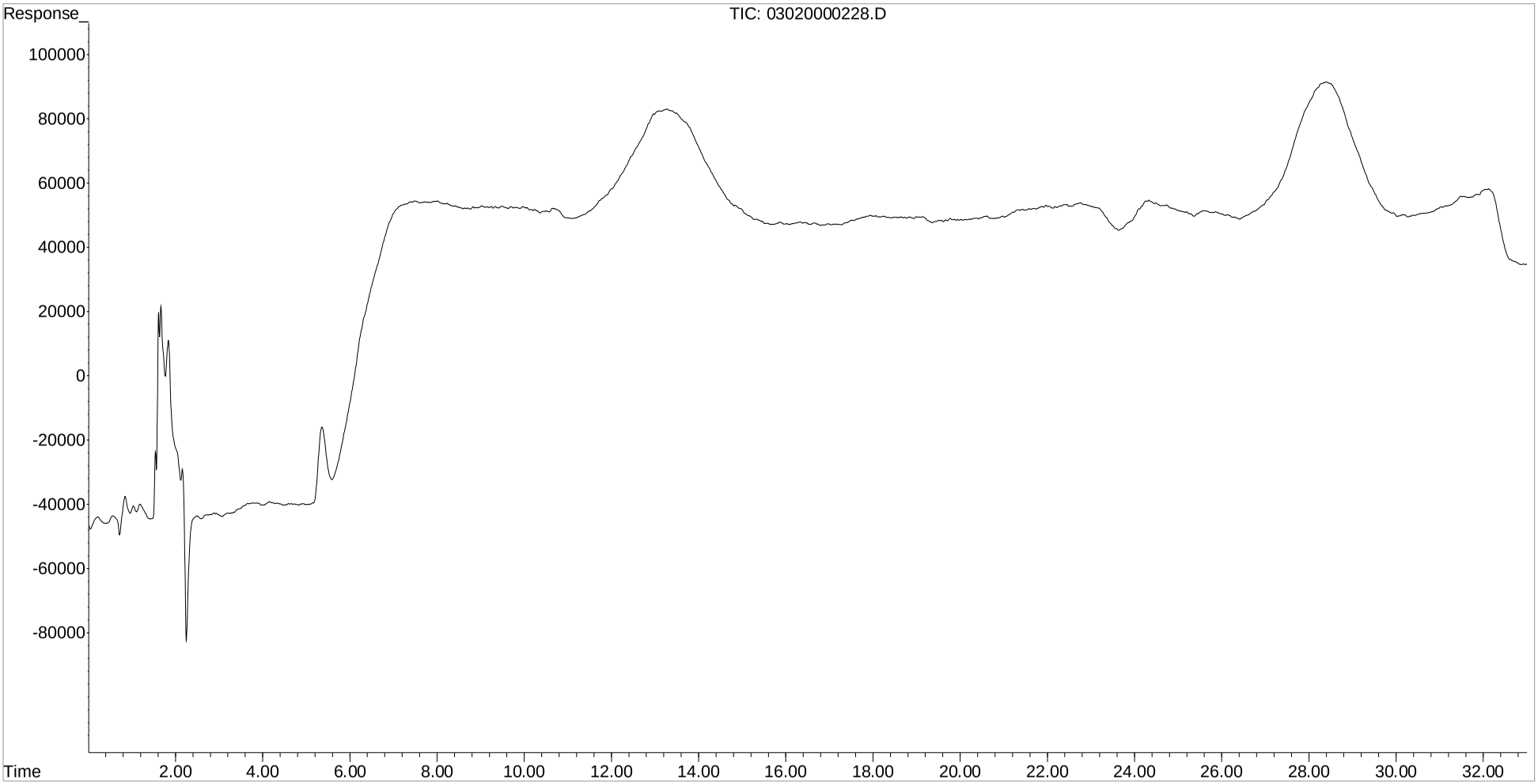
Quantitation Report (QT Reviewed)

[redacted] /14/17
/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000228.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 04:18:19 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:15 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000228.
Lab ID: KWG1701858-8
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 04:18
Date Quantitated: 03/06/2017 16:15
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000228.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 04:18	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-8			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000228.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 04:18	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701858-8			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000228.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 04:18	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-8			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000228.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 04:18:19 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:15 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
18) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
	Target Compounds				
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2) T	HMX	0.000	0	N.D.	ug/L
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4) T	RDX	0.000	0	N.D.	ug/L
5) T	1,3,5-TNB	0.000	0	N.D.	ug/L
6) T	1,3-DNB	0.000	0	N.D.	ug/L
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8) T	Tetryl	0.000	0	N.D.	ug/L
9) T	Nitrobenzene	0.000	0	N.D.	ug/L
10) T	2,4,6-TNT	0.000	0	N.D.	ug/L
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13) T	2,6-DNT	0.000	0	N.D.	ug/L
14) T	2,4-DNT	0.000	0	N.D.	ug/L
15) T	2-NT	0.000	0	N.D.	ug/L
16) T	4-NT	0.000	0	N.D.	ug/L
17) T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] (6) (6) 03/14/17 03/29/17

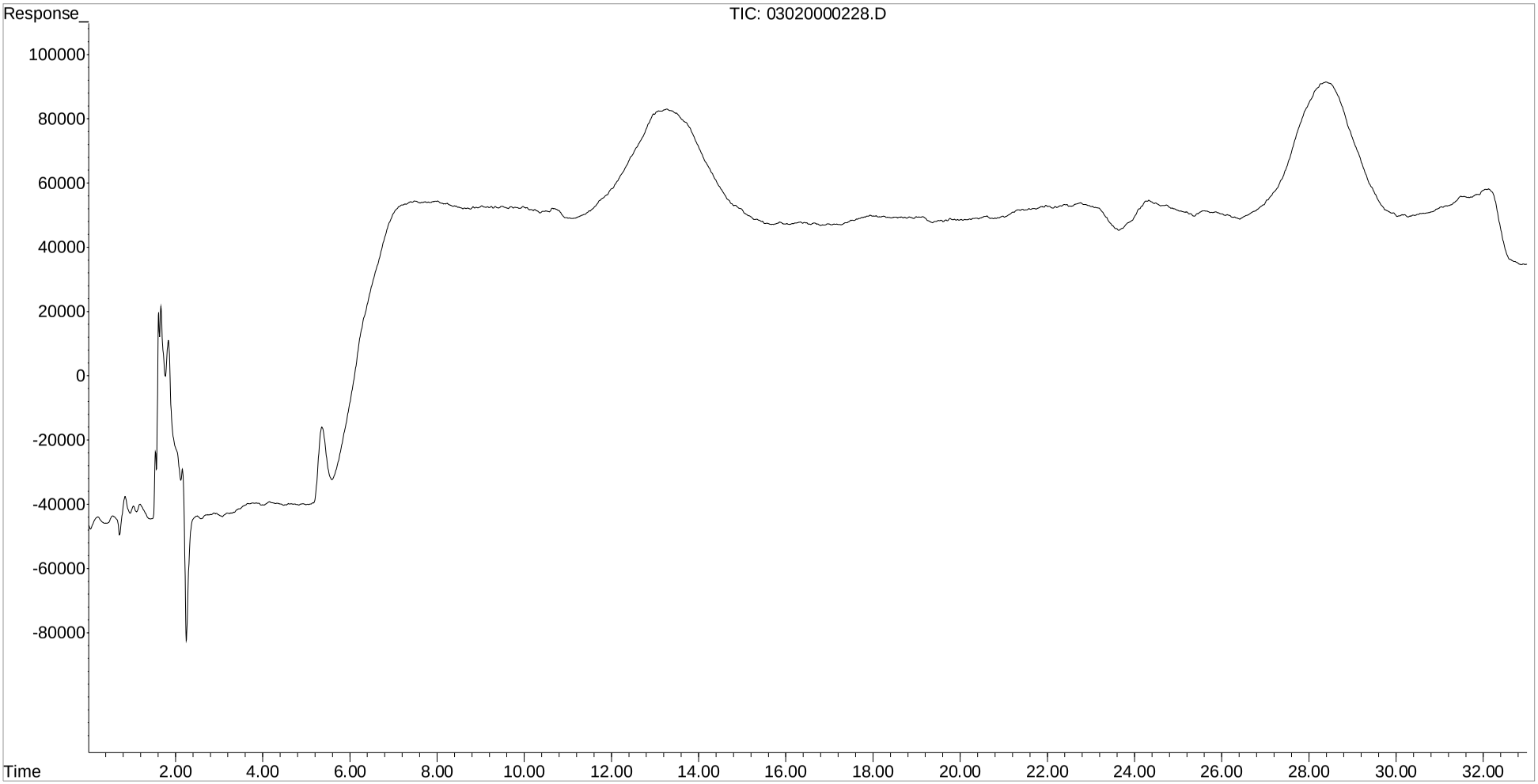
11/01/2018

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000228.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 04:18:19 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:15 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



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013023

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000228.
Lab ID: KWG1701858-8
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 04:18
Date Quantitated: 03/06/2017 16:15
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000228.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 04:18	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-8			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000228.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 04:18	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701858-8			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000228.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 04:18	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-8			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000228.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 04:18:19 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:15 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
18) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
	Target Compounds				
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2) T	HMX	0.000	0	N.D.	ug/L
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4) T	RDX	0.000	0	N.D.	ug/L
5) T	1,3,5-TNB	0.000	0	N.D.	ug/L
6) T	1,3-DNB	0.000	0	N.D.	ug/L
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8) T	Tetryl	0.000	0	N.D.	ug/L
9) T	Nitrobenzene	0.000	0	N.D.	ug/L
10) T	2,4,6-TNT	0.000	0	N.D.	ug/L
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13) T	2,6-DNT	0.000	0	N.D.	ug/L
14) T	2,4-DNT	0.000	0	N.D.	ug/L
15) T	2-NT	0.000	0	N.D.	ug/L
16) T	4-NT	0.000	0	N.D.	ug/L
17) T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] 3/14/17
(b)(6) 3/29/17

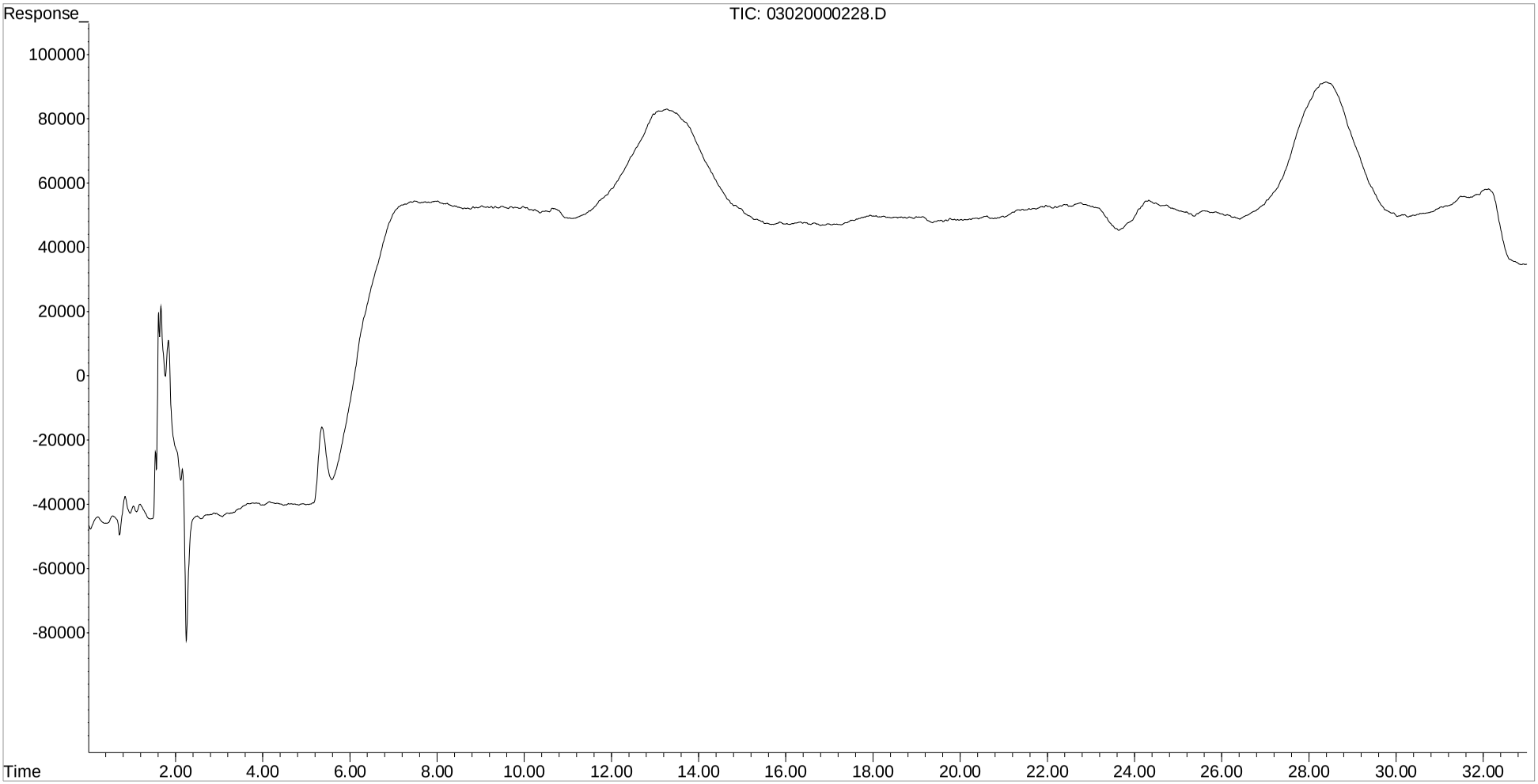
11/01/2018

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000228.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 04:18:19 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:15 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



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013029

Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000228.
Lab ID: KWG1701858-8
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 04:18
Date Quantitated: 03/06/2017 16:15
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000228.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 04:18	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-8			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000228.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 04:18	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701858-8			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000228.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 04:18	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-8			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000228.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 04:18:19 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:15 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
18) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
	Target Compounds				
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2) T	HMX	0.000	0	N.D.	ug/L
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4) T	RDX	0.000	0	N.D.	ug/L
5) T	1,3,5-TNB	0.000	0	N.D.	ug/L
6) T	1,3-DNB	0.000	0	N.D.	ug/L
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8) T	Tetryl	0.000	0	N.D.	ug/L
9) T	Nitrobenzene	0.000	0	N.D.	ug/L
10) T	2,4,6-TNT	0.000	0	N.D.	ug/L
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13) T	2,6-DNT	0.000	0	N.D.	ug/L
14) T	2,4-DNT	0.000	0	N.D.	ug/L
15) T	2-NT	0.000	0	N.D.	ug/L
16) T	4-NT	0.000	0	N.D.	ug/L
17) T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

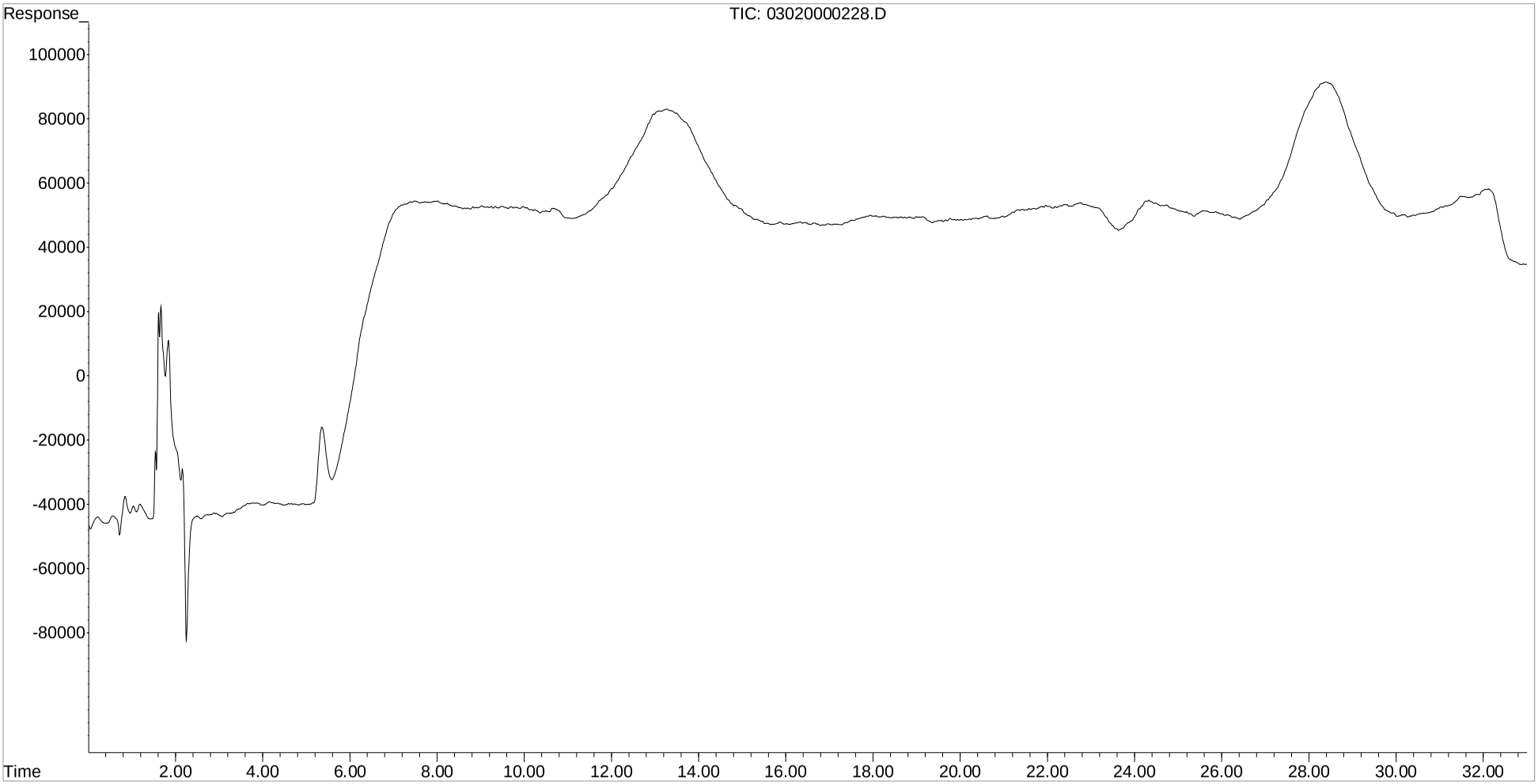
Quantitation Report (QT Reviewed)

[redacted] (b) (6) 03/14/17 03/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000228.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 04:18:19 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:15 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_254\03020000228.
Lab ID: KWG1701858-8
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 04:18
Date Quantitated: 03/06/2017 16:15
Batch ID: KWG1701858
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000228.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 04:18	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701858-8			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000228.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 04:18	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701858-8			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_254\03020000228.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 04:18	**Quant Date:**	03/06/2017 16:15	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701858-8			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701858	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15062
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
2,6-Diamino-4-nitrotoluene			0				
HMX			0				
2,4-Diamino-6-nitrotoluene			0				
RDX			0				
1,3,5-Trinitrobenzene			0				
1,3-Dinitrobenzene			0				
3,5-Dinitroaniline			0				
TETRYL			0				
Nitrobenzene			0				
2,4,6-Trinitrotoluene			0				
4-Amino-2,6-dinitrotoluene			0				
2-Amino-4,6-dinitrotoluene			0				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0				
2-Nitrotoluene			0				
4-Nitrotoluene			0				
3-Nitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_254\03020000228.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 04:18:19 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:15 2017
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	0.000	0	N.D.	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	0.000	0	N.D.	ug/L
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L
6)	T	1,3-DNB	0.000	0	N.D.	ug/L
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8)	T	Tetryl	0.000	0	N.D.	ug/L
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13)	T	2,6-DNT	0.000	0	N.D.	ug/L
14)	T	2,4-DNT	0.000	0	N.D.	ug/L
15)	T	2-NT	0.000	0	N.D.	ug/L
16)	T	4-NT	0.000	0	N.D.	ug/L
17)	T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

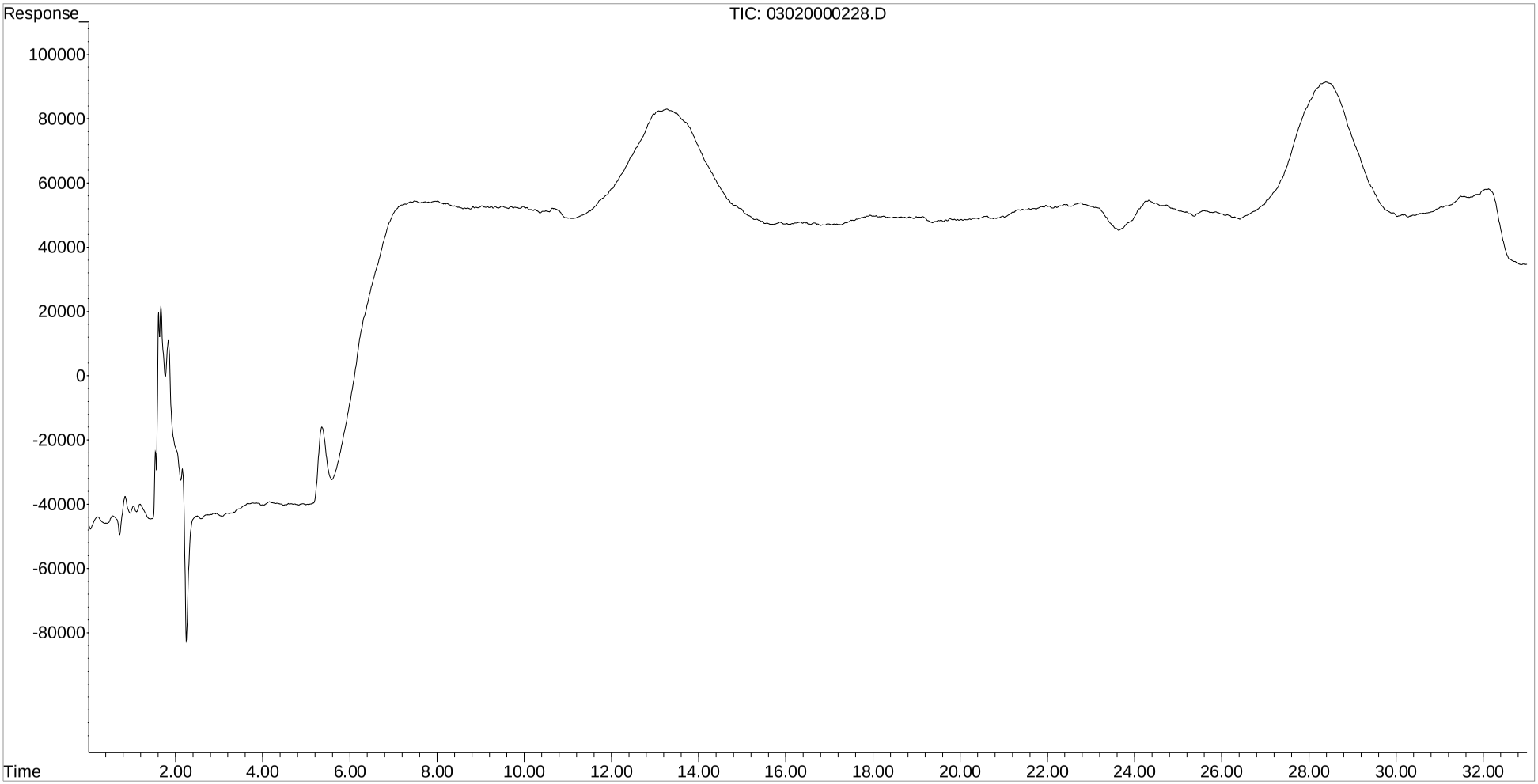
[redacted] (b) (6) 3/14/17 3/29/17

Data File : J:\LC10\Data\030317_8330_254\03020000228.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 03-Mar-2017, 04:18:19 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:15:15 2017
Quant Results File: 120716_8330B@254.RES

11/01/2018

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Mon Mar 06 16:13:36 2017
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



013041

Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000235.
Lab ID: KWG1701860-10
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 08:31
Date Quantitated: 03/06/2017 15:56
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000235.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 08:31	**Quant Date:**	03/06/2017 15:56	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701860-10			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000235.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 08:31	**Quant Date:**	03/06/2017 15:56	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701860-10			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000235.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 08:31	**Quant Date:**	03/06/2017 15:56	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701860-10			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000235.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 08:31:51 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:56:41 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
Target Compounds						
1) T	Nitroglycerin	0.000	0	N.D.	ug/L	d
2) T	PETN	0.000	0	N.D.	ug/L	d

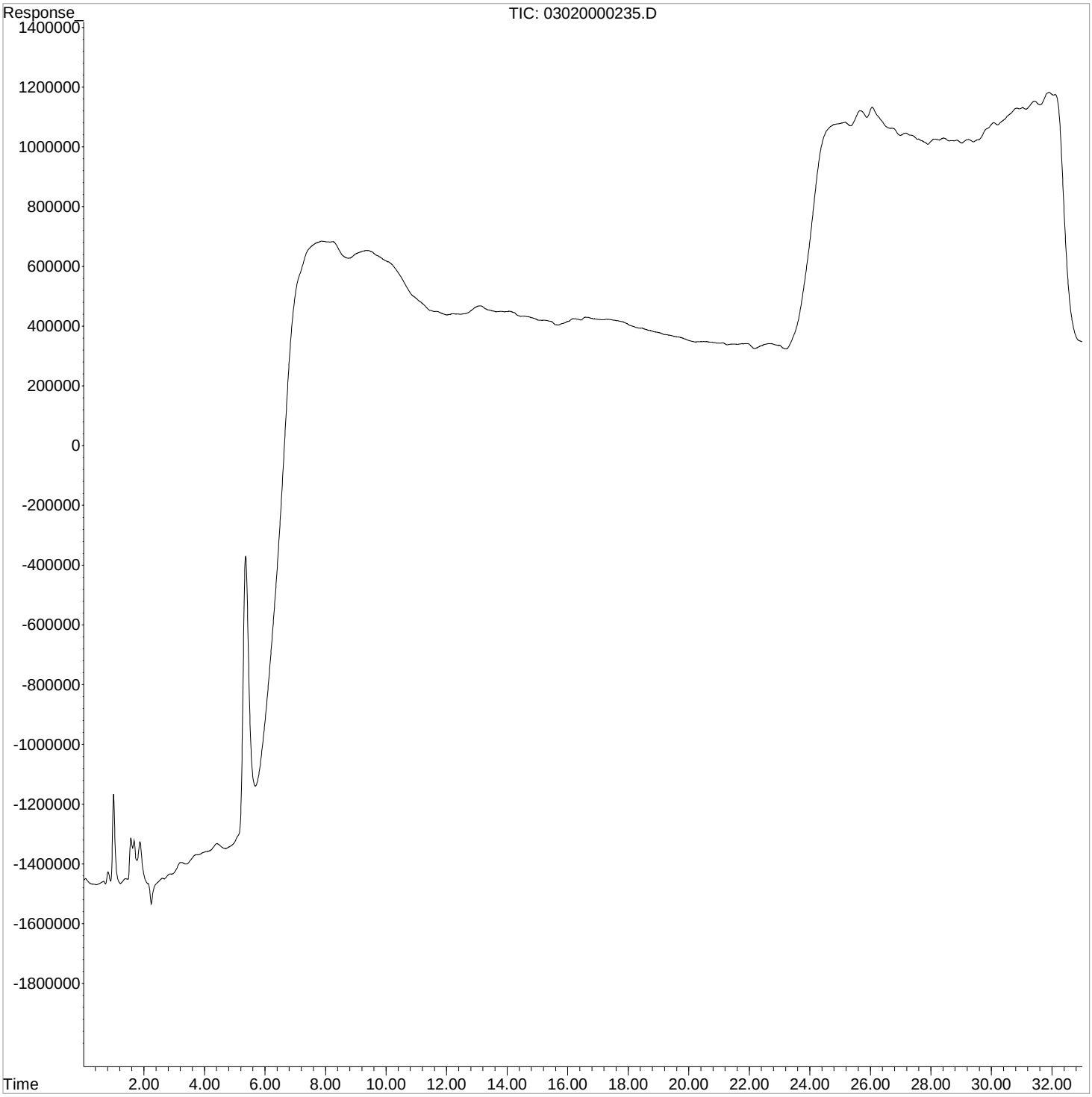
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000235.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 08:31:51 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:56:41 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000235.
Lab ID: KWG1701860-10
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 08:31
Date Quantitated: 03/06/2017 15:56
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000235.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 08:31	**Quant Date:**	03/06/2017 15:56	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701860-10			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000235.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 08:31	**Quant Date:**	03/06/2017 15:56	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701860-10			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000235.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 08:31	**Quant Date:**	03/06/2017 15:56	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701860-10			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
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N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000235.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 08:31:51 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:56:41 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
Target Compounds						
1) T	Nitroglycerin	0.000	0	N.D.	ug/L	d
2) T	PETN	0.000	0	N.D.	ug/L	d

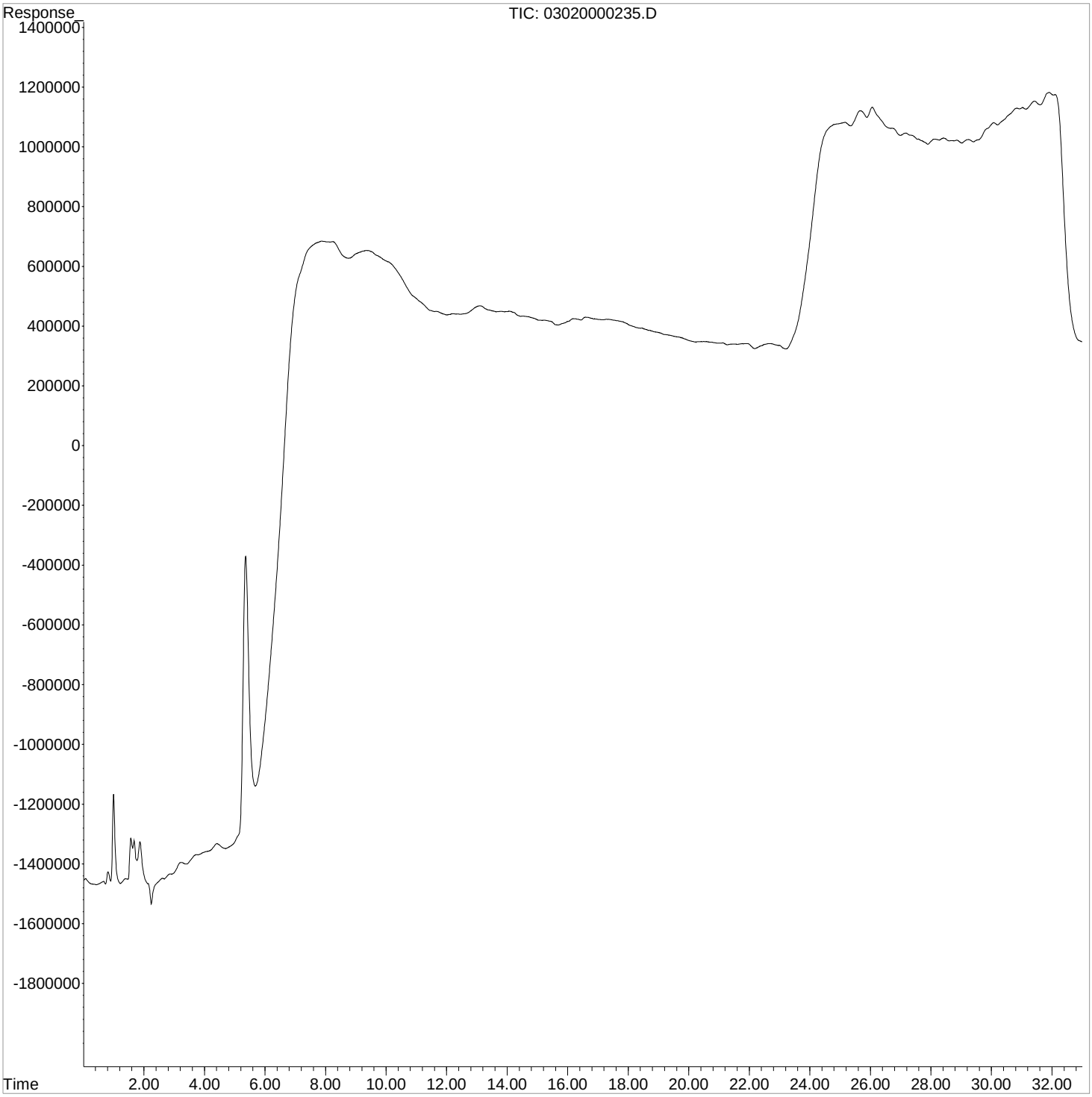
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000235.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 08:31:51 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:56:41 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000235.
Lab ID: KWG1701860-10
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 08:31
Date Quantitated: 03/06/2017 15:56
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000235.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 08:31	**Quant Date:**	03/06/2017 15:56	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701860-10			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000235.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 08:31	**Quant Date:**	03/06/2017 15:56	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701860-10			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000235.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 08:31	**Quant Date:**	03/06/2017 15:56	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701860-10			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000235.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 08:31:51 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:56:41 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
Target Compounds						
1) T	Nitroglycerin	0.000	0	N.D.	ug/L	d
2) T	PETN	0.000	0	N.D.	ug/L	d

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

(b) (6)

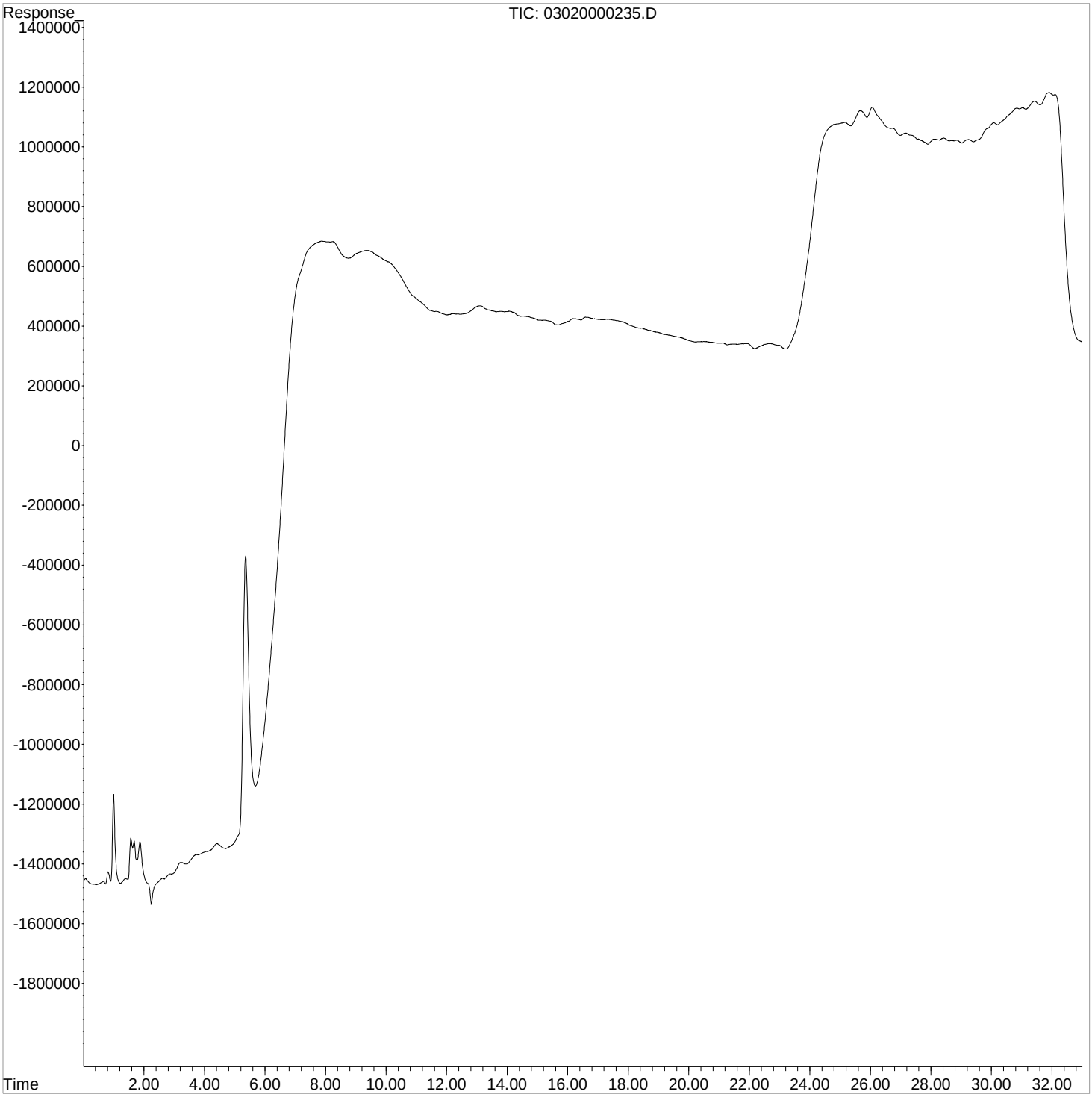
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_210\03020000235.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 08:31:51 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:56:41 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000235.
Lab ID: KWG1701860-10
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 08:31
Date Quantitated: 03/06/2017 15:56
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000235.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 08:31	**Quant Date:**	03/06/2017 15:56	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701860-10			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000235.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 08:31	**Quant Date:**	03/06/2017 15:56	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701860-10			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000235.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 08:31	**Quant Date:**	03/06/2017 15:56	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701860-10			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000235.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 08:31:51 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:56:41 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
	Target Compounds					
1) T	Nitroglycerin	0.000	0	N.D.	ug/L	d
2) T	PETN	0.000	0	N.D.	ug/L	d

(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)

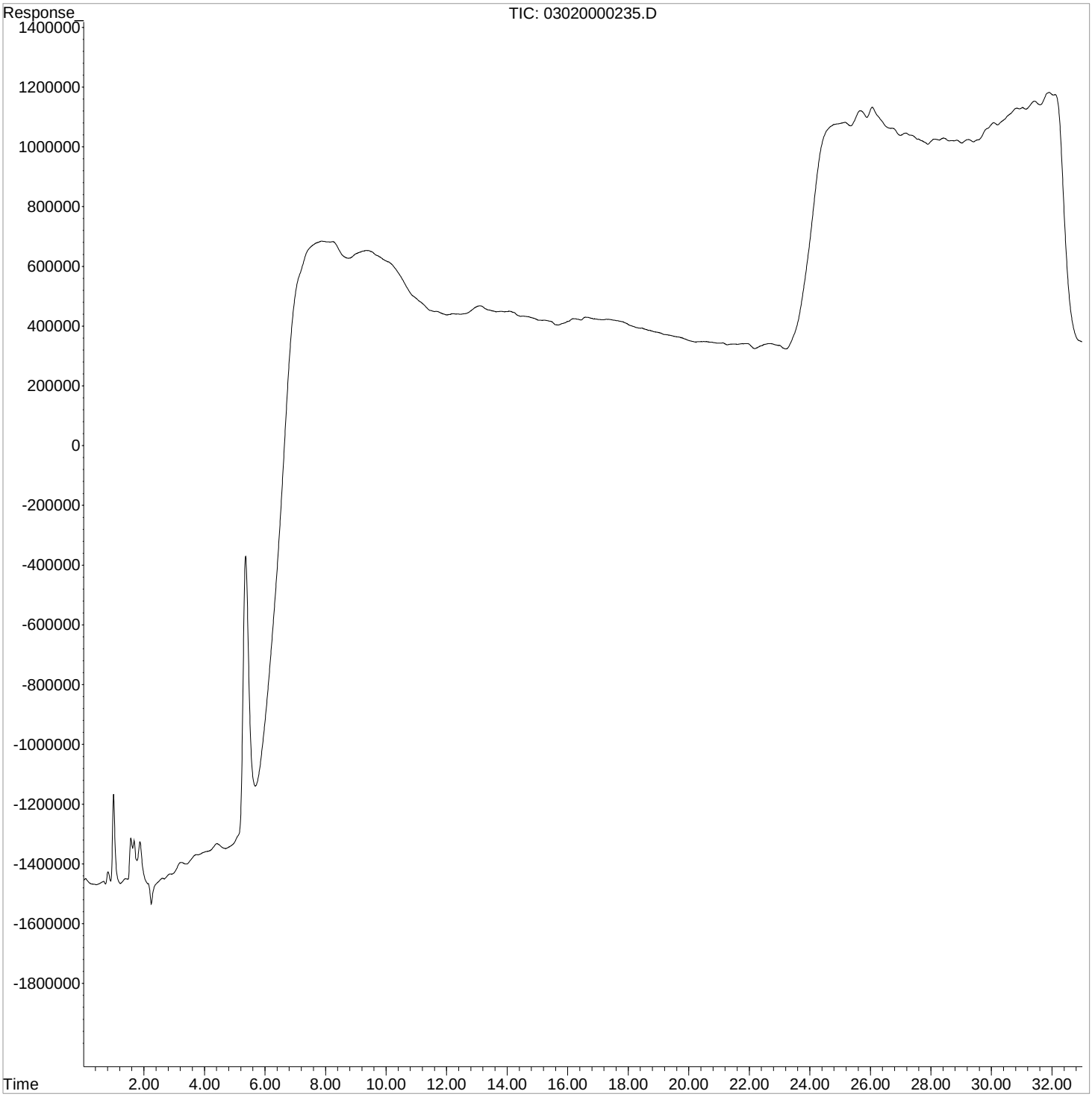
3/14/17

3/29/17

Data File : J:\LC10\Data\030317_8330_210\03020000235.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 08:31:51 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:56:41 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000246.
Lab ID: KWG1701860-12
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 15:10
Date Quantitated: 03/06/2017 16:00
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000246.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 15:10	**Quant Date:**	03/06/2017 16:00	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701860-12			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000246.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 15:10:23 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:00:57 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
Target Compounds						
1) T	Nitroglycerin	0.000	0	N.D.	ug/L	d
2) T	PETN	0.000	0	N.D.	ug/L	d

(f)=RT Delta > 1/2 Window (m)=manual int.

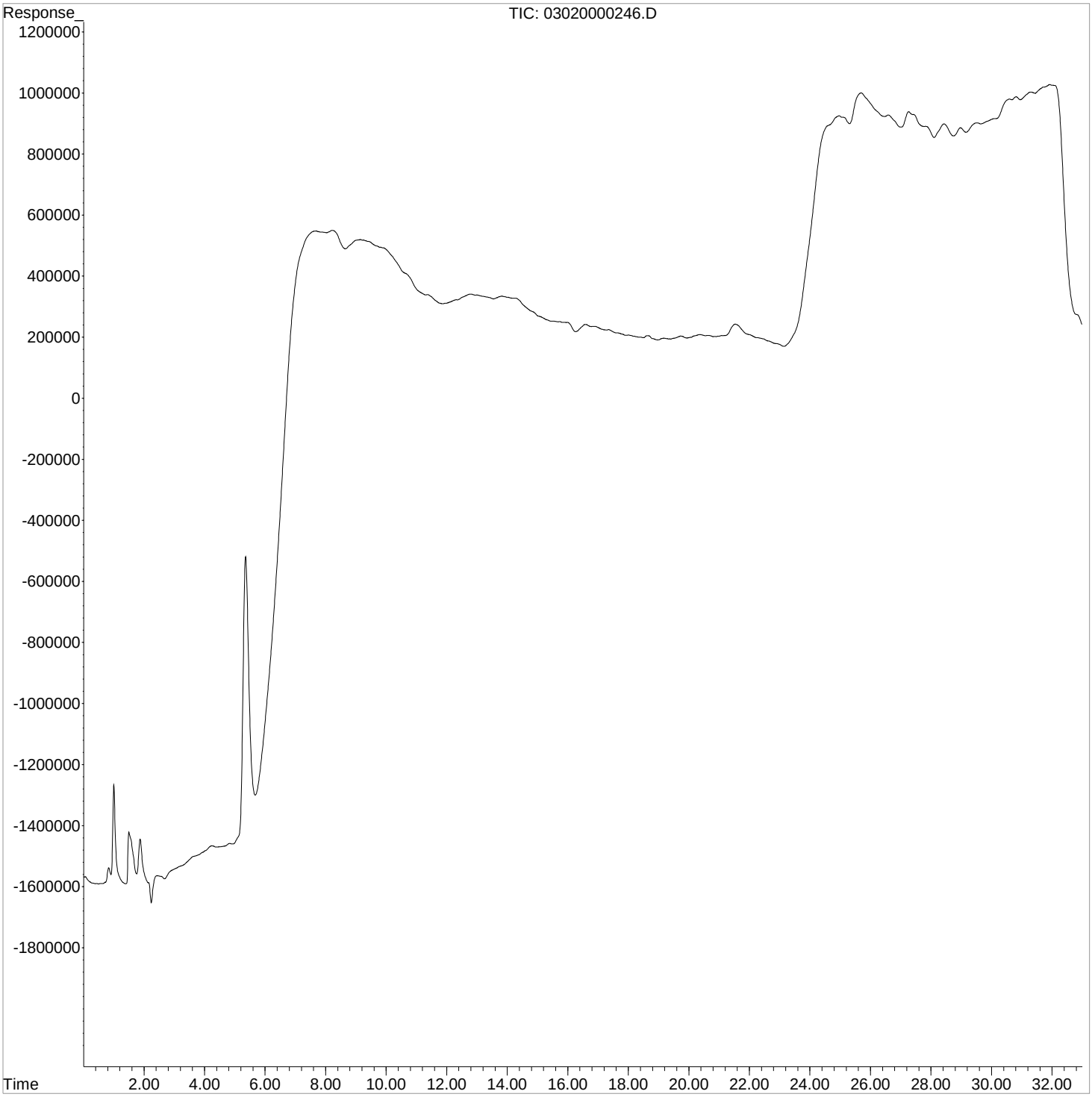
Quantitation Report (QT Reviewed)

(b) (6) 3/14/17 3/29/17

Data File : J:\LC10\Data\030317_8330_210\03020000246.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 15:10:23 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:00:57 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000246.
Lab ID: KWG1701860-12
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 15:10
Date Quantitated: 03/06/2017 16:00
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000246.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 15:10	**Quant Date:**	03/06/2017 16:00	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701860-12			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000246.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 15:10:23 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:00:57 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L d
	Target Compounds				
1) T	Nitroglycerin	0.000	0	N.D.	ug/L d
2) T	PETN	0.000	0	N.D.	ug/L d

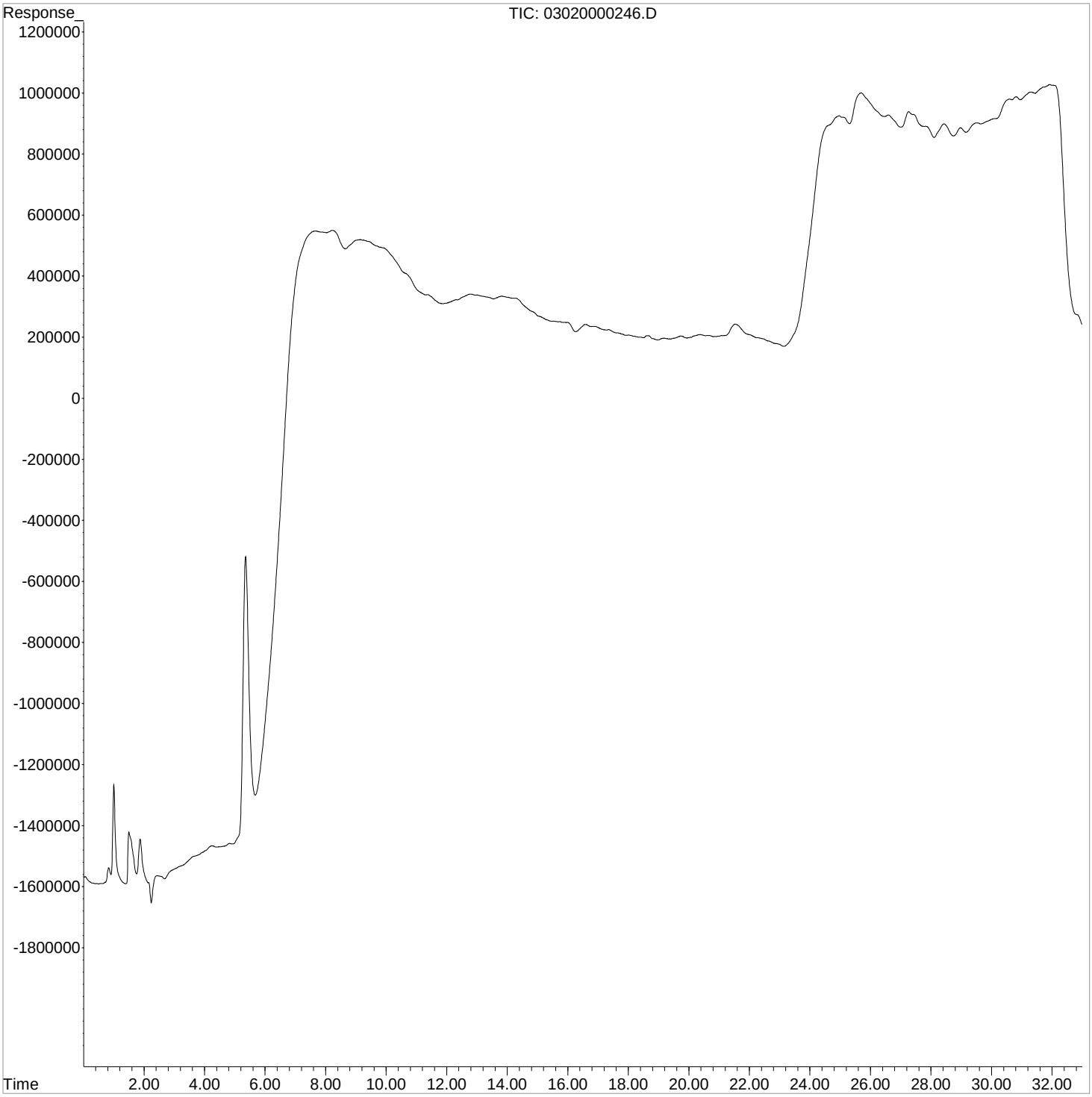
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000246.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 15:10:23 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:00:57 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000246.
Lab ID: KWG1701860-12
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 15:10
Date Quantitated: 03/06/2017 16:00
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000246.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 15:10	**Quant Date:**	03/06/2017 16:00	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701860-12			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000246.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 15:10:23 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:00:57 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
Target Compounds						
1) T	Nitroglycerin	0.000	0	N.D.	ug/L	d
2) T	PETN	0.000	0	N.D.	ug/L	d

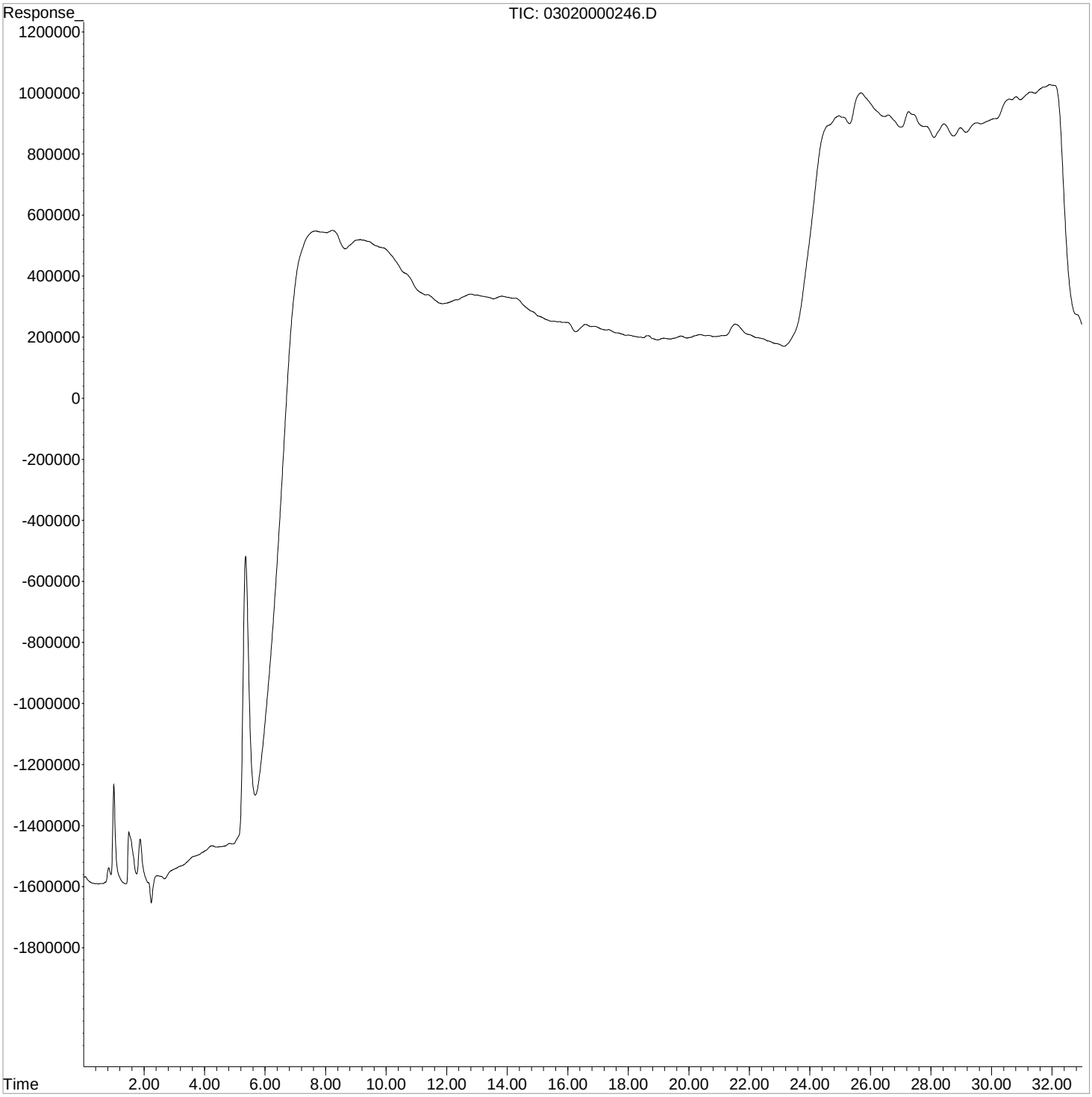
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000246.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 15:10:23 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:00:57 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000246.
Lab ID: KWG1701860-12
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 15:10
Date Quantitated: 03/06/2017 16:00
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000246.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 15:10	**Quant Date:**	03/06/2017 16:00	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701860-12			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000246.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 15:10:23 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:00:57 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
Target Compounds						
1) T	Nitroglycerin	0.000	0	N.D.	ug/L	d
2) T	PETN	0.000	0	N.D.	ug/L	d

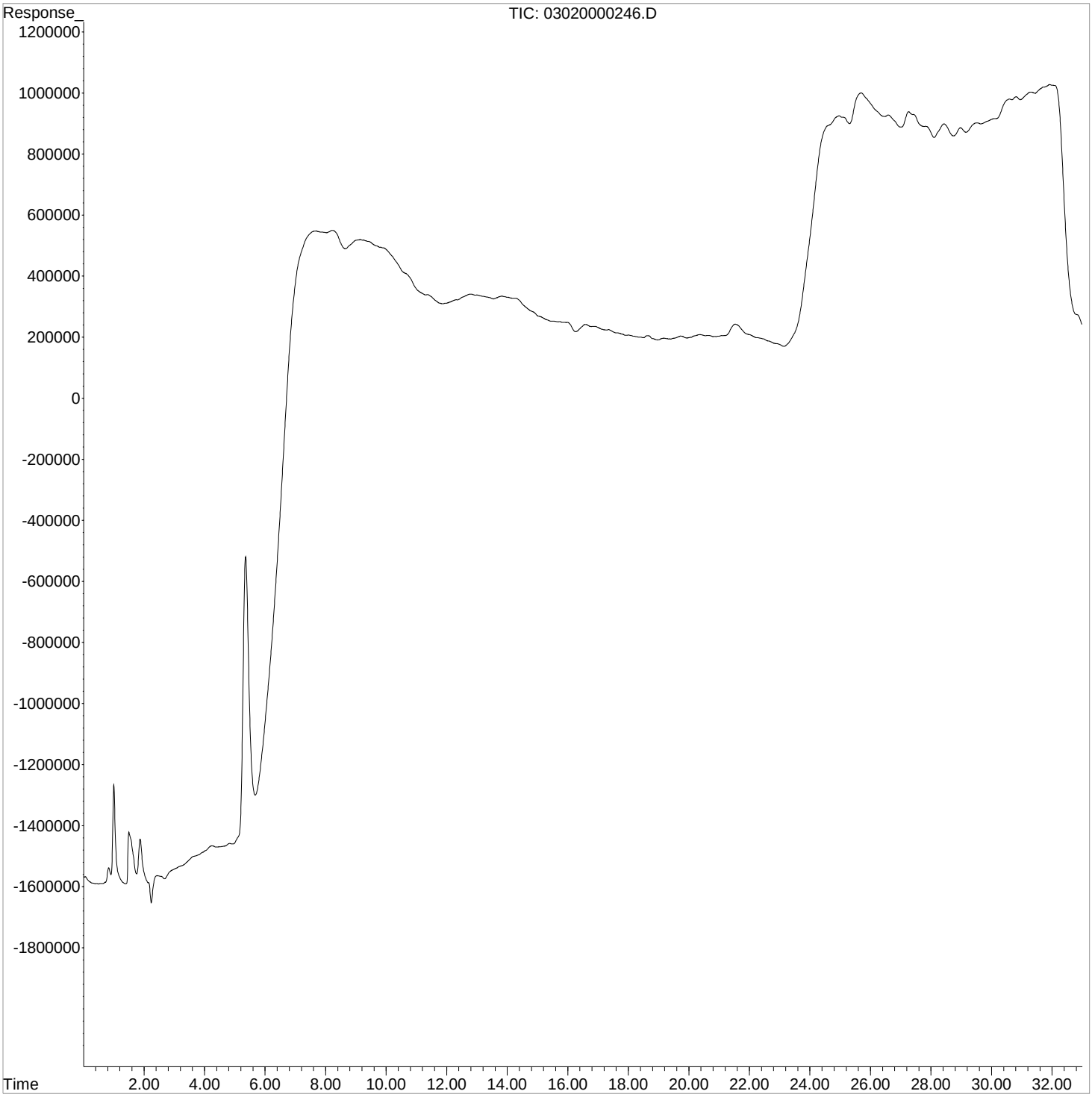
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000246.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 15:10:23 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:00:57 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000255.
Lab ID: KWG1701860-14
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 20:36
Date Quantitated: 03/06/2017 16:04
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000255.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 20:36	**Quant Date:**	03/06/2017 16:04	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701860-14			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000255.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 20:36:29 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:04:07 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
Target Compounds						
1) T	Nitroglycerin	0.000	0	N.D.	ug/L	d
2) T	PETN	0.000	0	N.D.	ug/L	d

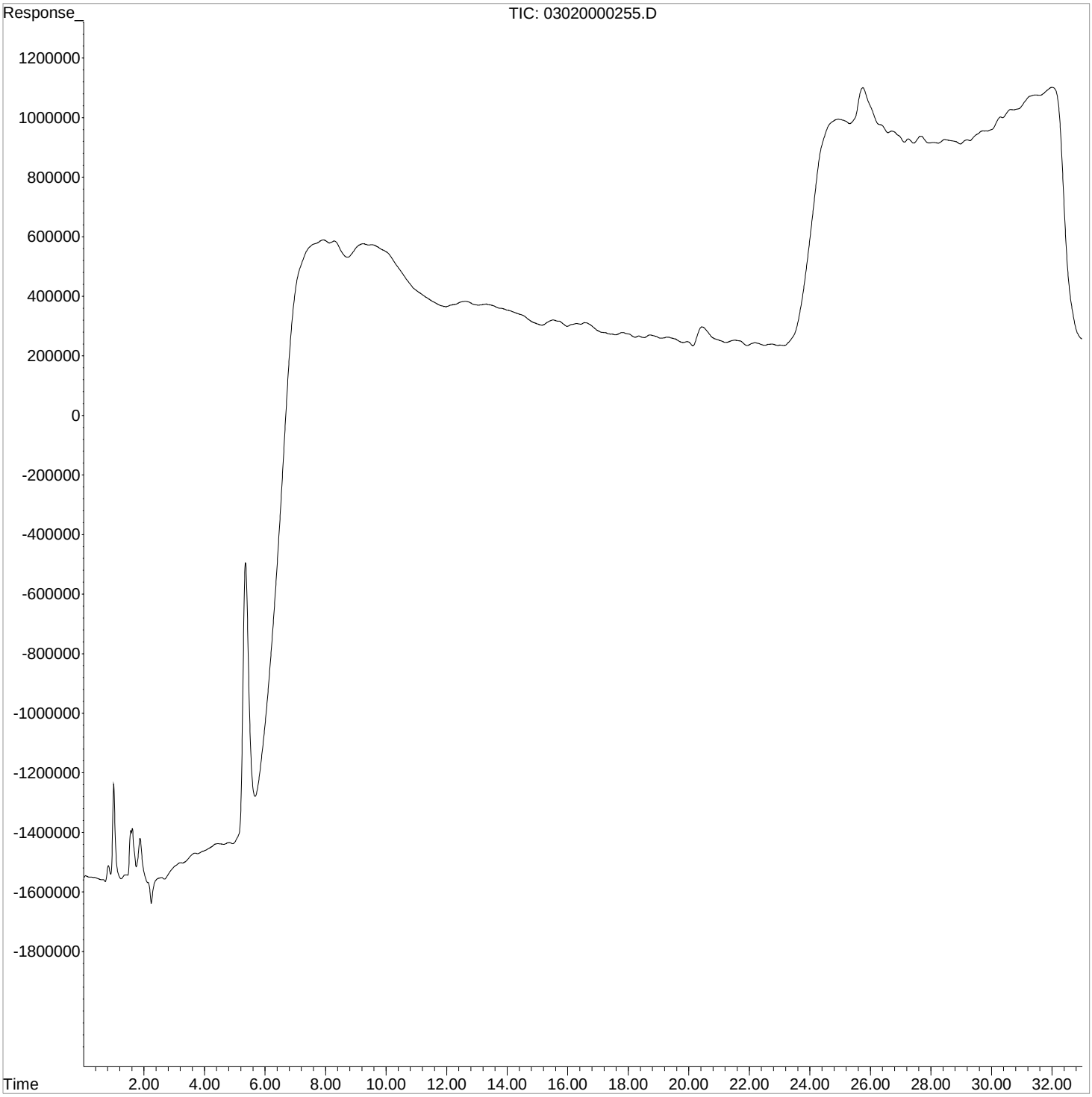
(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)
1 03/14/17
2 03/29/17

Data File : J:\LC10\Data\030317_8330_210\03020000255.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 20:36:29 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:04:07 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000255.
Lab ID: KWG1701860-14
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 20:36
Date Quantitated: 03/06/2017 16:04
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000255.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 20:36	**Quant Date:**	03/06/2017 16:04	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701860-14			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000255.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 20:36:29 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:04:07 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
Target Compounds						
1) T	Nitroglycerin	0.000	0	N.D.	ug/L	d
2) T	PETN	0.000	0	N.D.	ug/L	d

(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)

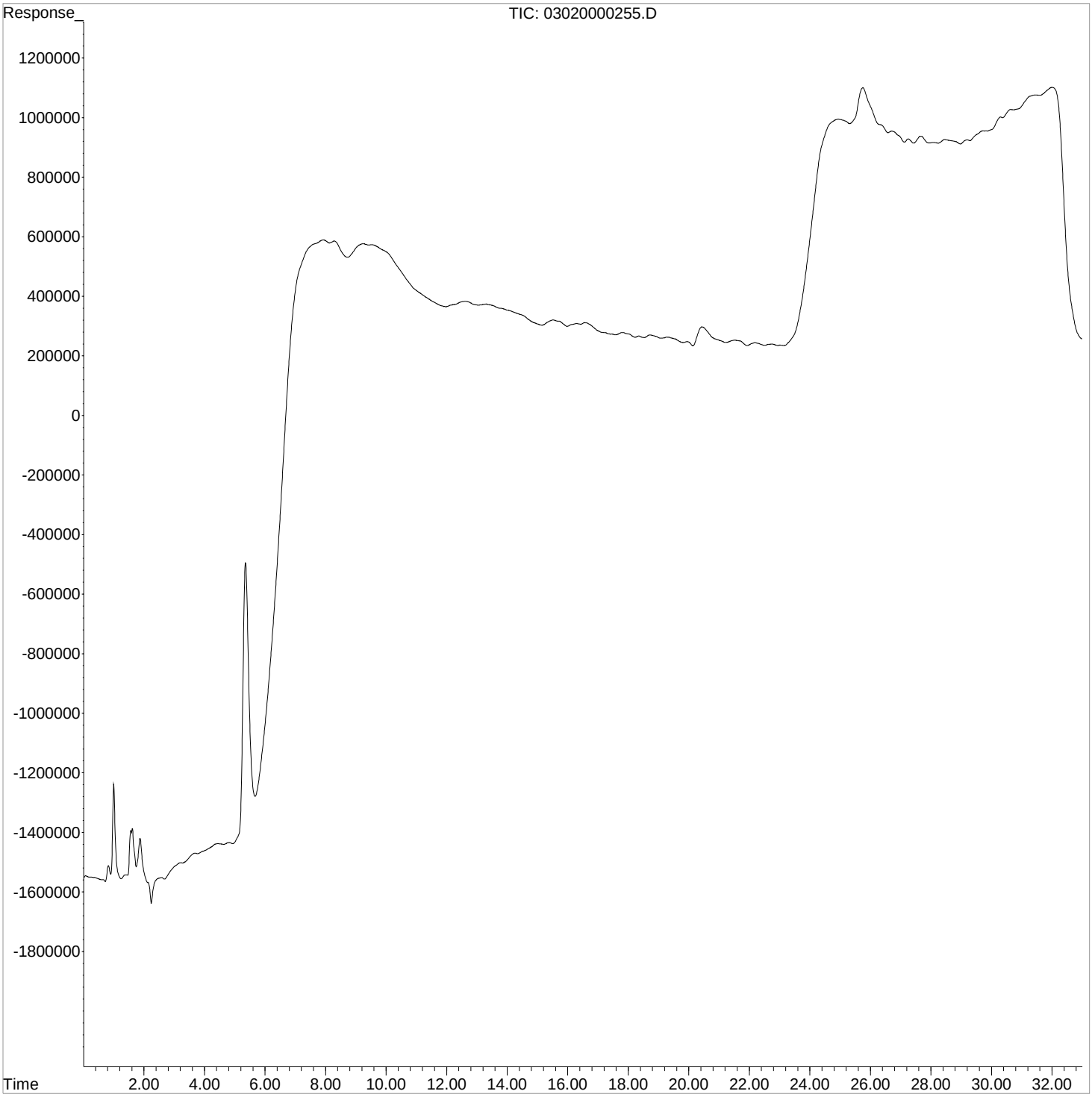
/14/17

/29/17

Data File : J:\LC10\Data\030317_8330_210\03020000255.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 20:36:29 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:04:07 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000255.
Lab ID: KWG1701860-14
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 20:36
Date Quantitated: 03/06/2017 16:04
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000255.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 20:36	**Quant Date:**	03/06/2017 16:04	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701860-14			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000255.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 20:36:29 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:04:07 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
Target Compounds						
1) T	Nitroglycerin	0.000	0	N.D.	ug/L	d
2) T	PETN	0.000	0	N.D.	ug/L	d

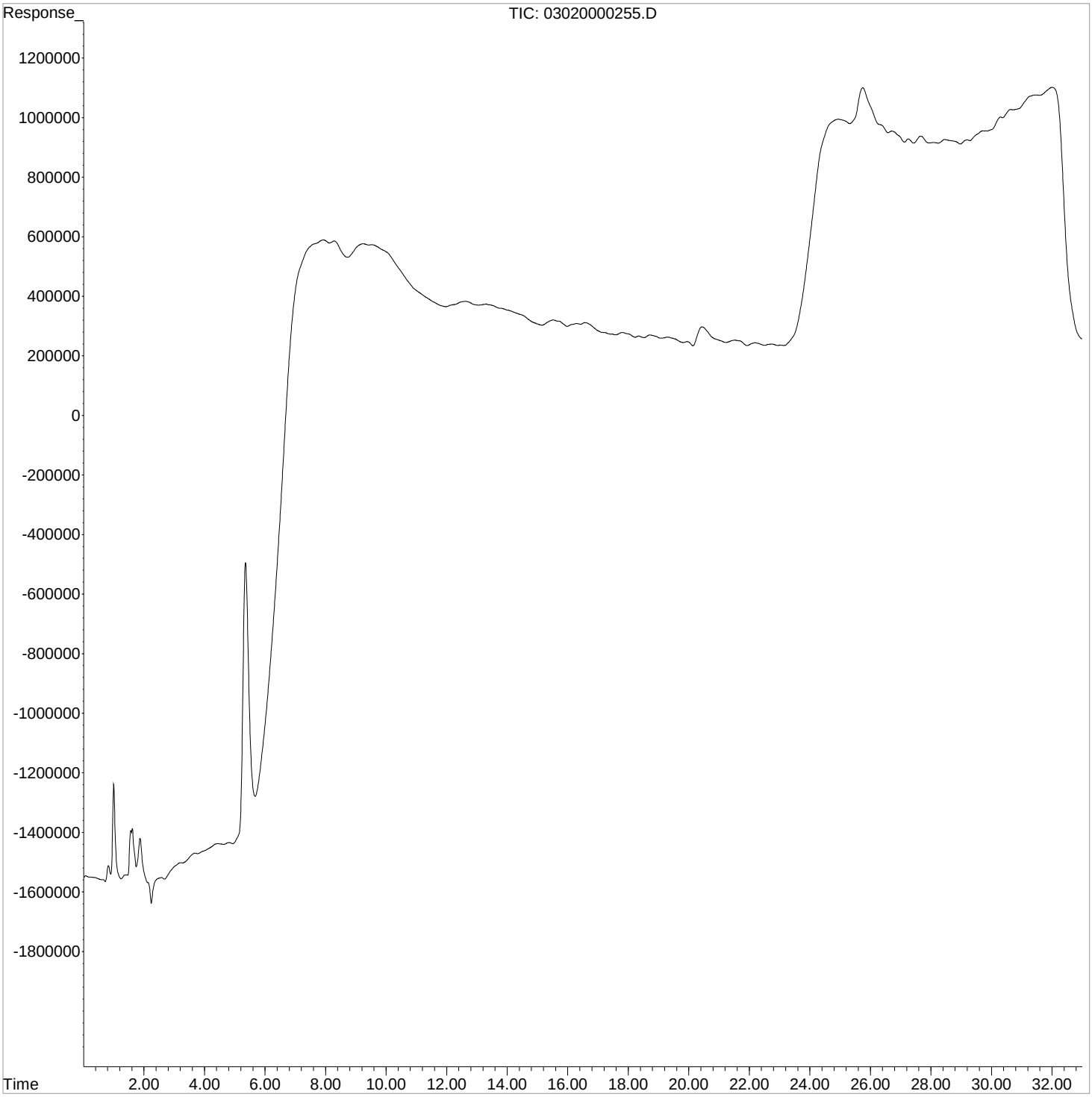
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000255.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 20:36:29 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:04:07 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000255.
Lab ID: KWG1701860-14
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 20:36
Date Quantitated: 03/06/2017 16:04
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000255.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 20:36	**Quant Date:**	03/06/2017 16:04	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701860-14			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000255.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 20:36:29 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:04:07 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
Target Compounds						
1) T	Nitroglycerin	0.000	0	N.D.	ug/L	d
2) T	PETN	0.000	0	N.D.	ug/L	d

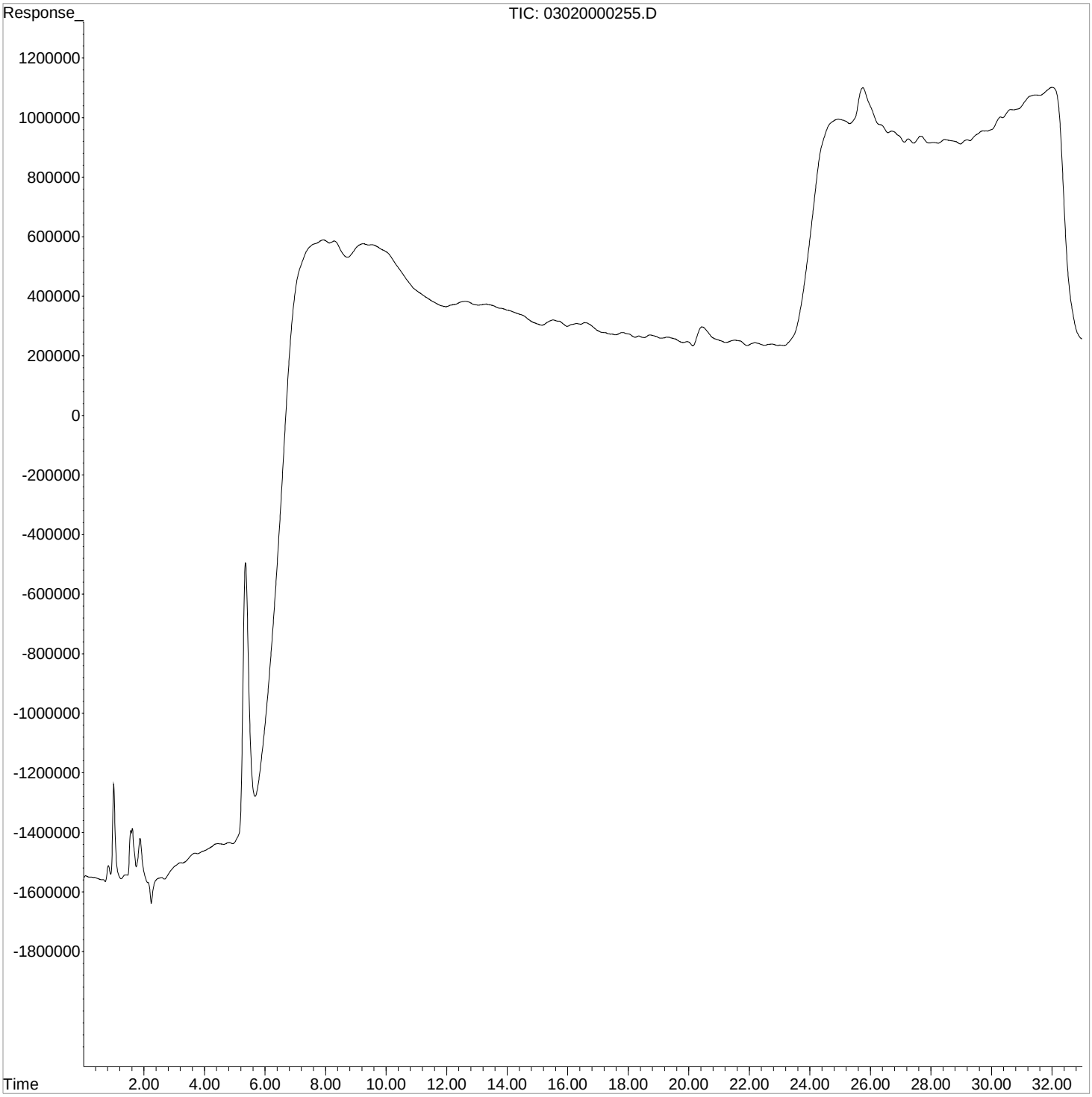
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000255.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 20:36:29 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 16:04:07 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000203.
Lab ID: KWG1701860-2
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/02/2017 13:12
Date Quantitated: 03/06/2017 15:02
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000203.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 13:12	**Quant Date:**	03/06/2017 15:02	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701860-2			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000203.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 13:12:28 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:02:20 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Mon Dec 12 12:45:13 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
Target Compounds						
1) T	Nitroglycerin	0.000	0	N.D.	ug/L	d
2) T	PETN	0.000	0	N.D.	ug/L	d

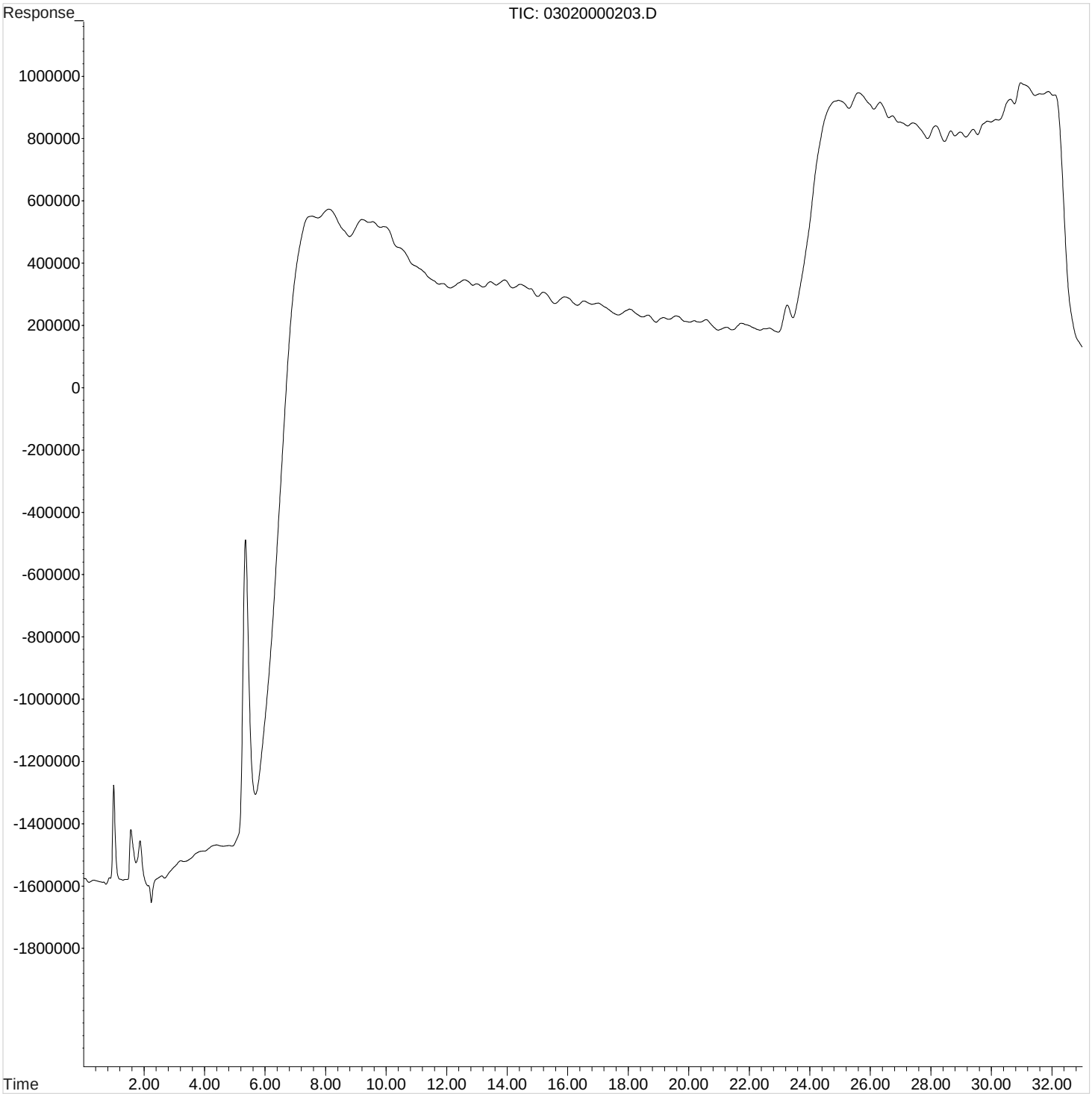
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000203.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 13:12:28 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:02:20 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Mon Dec 12 12:45:13 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000203.
Lab ID: KWG1701860-2
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/02/2017 13:12
Date Quantitated: 03/06/2017 15:02
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000203.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 13:12	**Quant Date:**	03/06/2017 15:02	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701860-2			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000203.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 13:12:28 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:02:20 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Mon Dec 12 12:45:13 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
Target Compounds						
1) T	Nitroglycerin	0.000	0	N.D.	ug/L	d
2) T	PETN	0.000	0	N.D.	ug/L	d

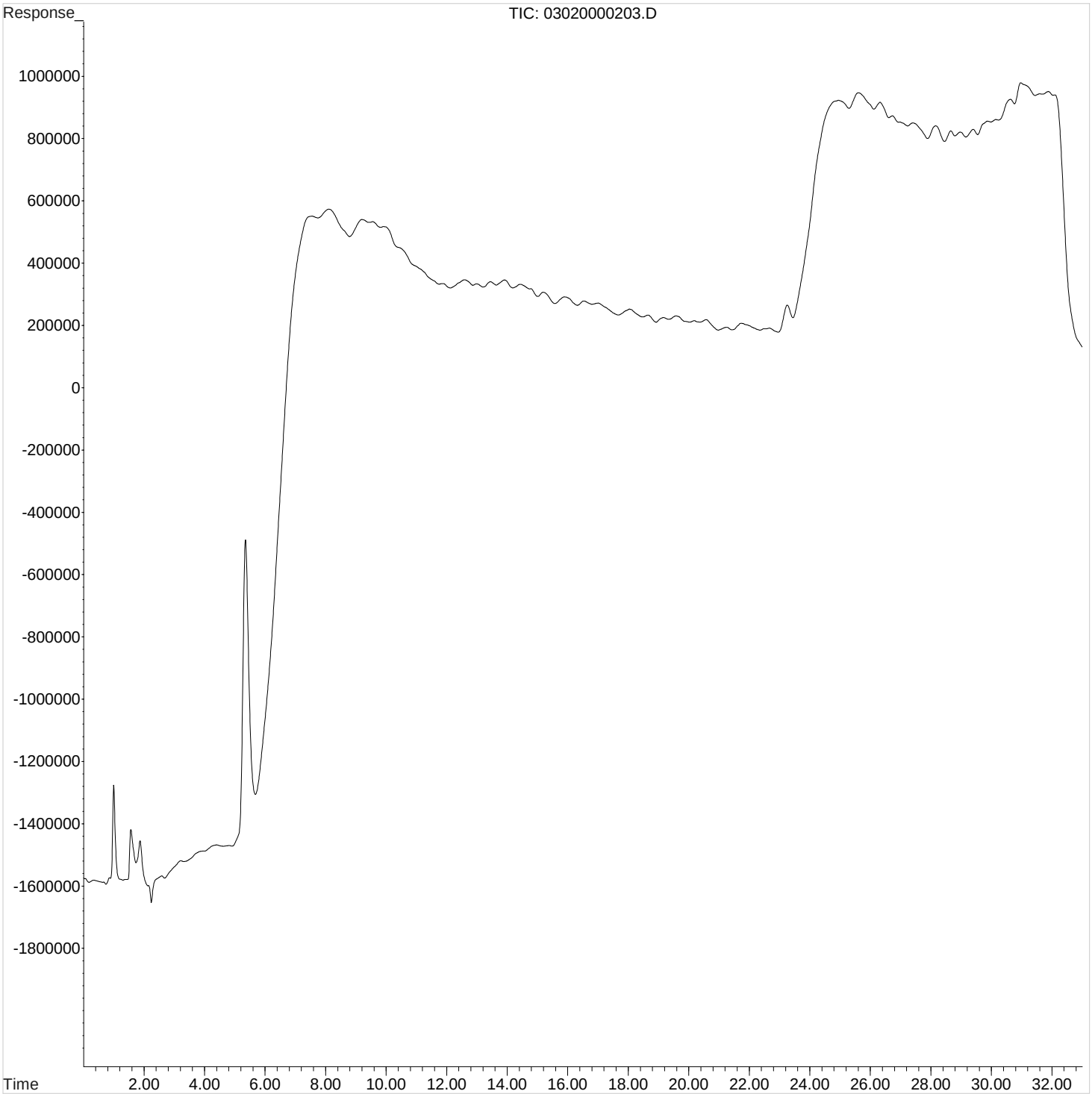
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000203.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 13:12:28 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:02:20 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Mon Dec 12 12:45:13 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000203.
Lab ID: KWG1701860-2
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/02/2017 13:12
Date Quantitated: 03/06/2017 15:02
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000203.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 13:12	**Quant Date:**	03/06/2017 15:02	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701860-2			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000203.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 13:12:28 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:02:20 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Mon Dec 12 12:45:13 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
Target Compounds						
1) T	Nitroglycerin	0.000	0	N.D.	ug/L	d
2) T	PETN	0.000	0	N.D.	ug/L	d

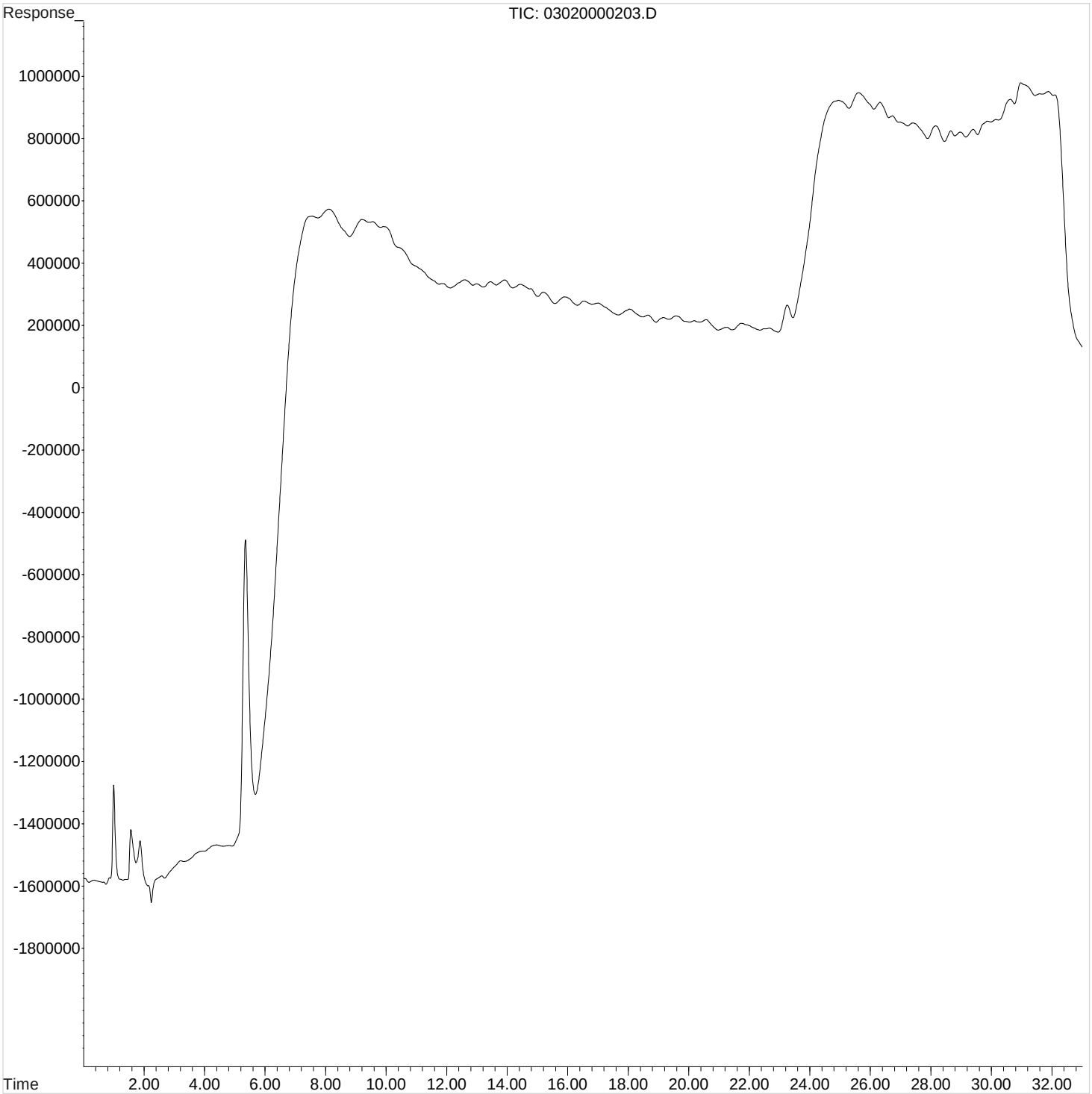
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000203.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 13:12:28 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:02:20 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Mon Dec 12 12:45:13 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000203.
Lab ID: KWG1701860-2
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/02/2017 13:12
Date Quantitated: 03/06/2017 15:02
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000203.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 13:12	**Quant Date:**	03/06/2017 15:02	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701860-2			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000203.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 13:12:28 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:02:20 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Mon Dec 12 12:45:13 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
Target Compounds						
1) T	Nitroglycerin	0.000	0	N.D.	ug/L	d
2) T	PETN	0.000	0	N.D.	ug/L	d

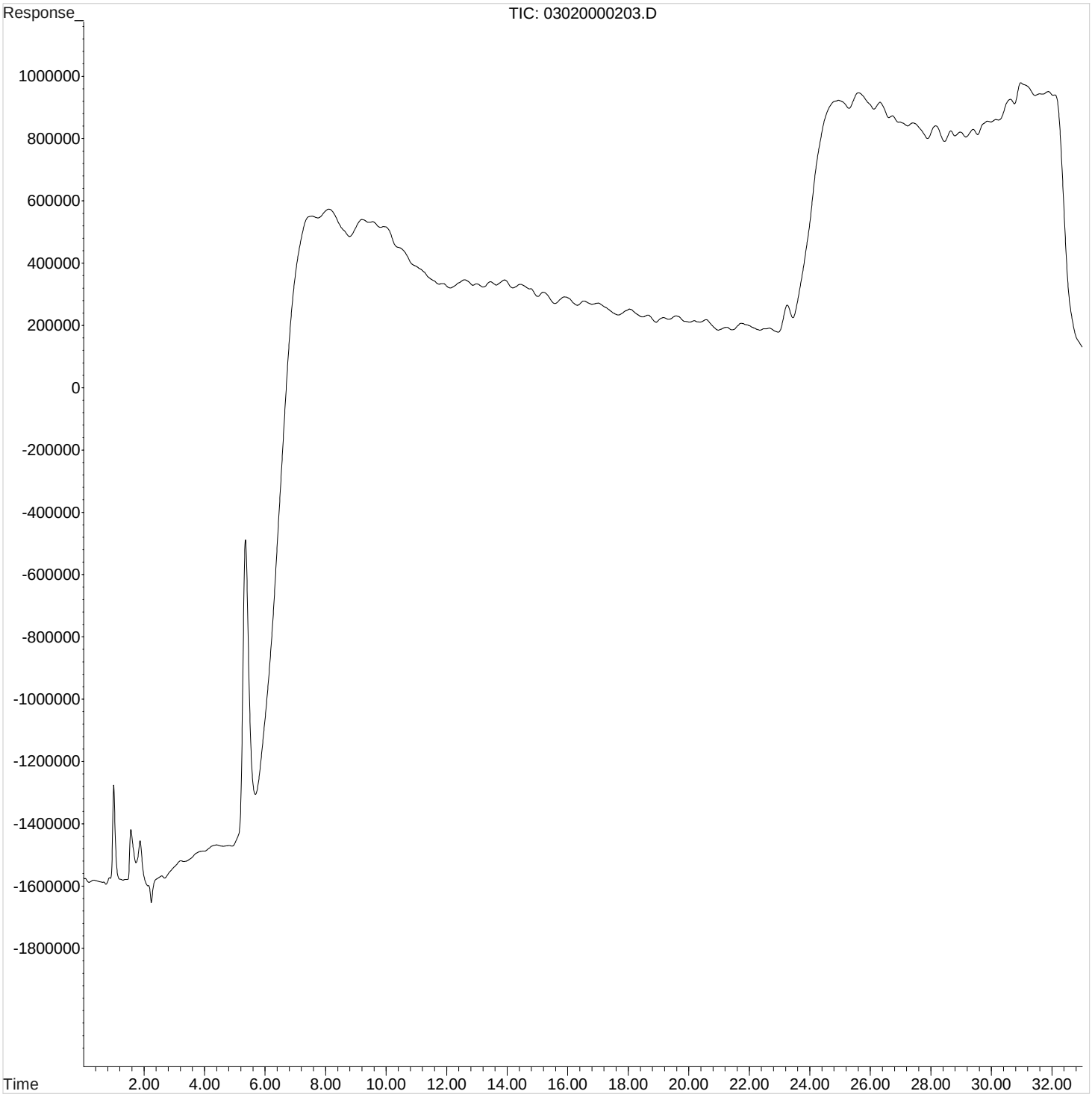
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000203.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 13:12:28 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:02:20 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Mon Dec 12 12:45:13 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000211.
Lab ID: KWG1701860-4
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/02/2017 18:02
Date Quantitated: 03/06/2017 15:22
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000211.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 18:02	**Quant Date:**	03/06/2017 15:22	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701860-4			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000211.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 18:02	**Quant Date:**	03/06/2017 15:22	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701860-4			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000211.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 18:02	**Quant Date:**	03/06/2017 15:22	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701860-4			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000211.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 18:02:18 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:22:32 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L d
Target Compounds					
1) T	Nitroglycerin	0.000	0	N.D.	ug/L
2) T	PETN	0.000	0	N.D.	ug/L d

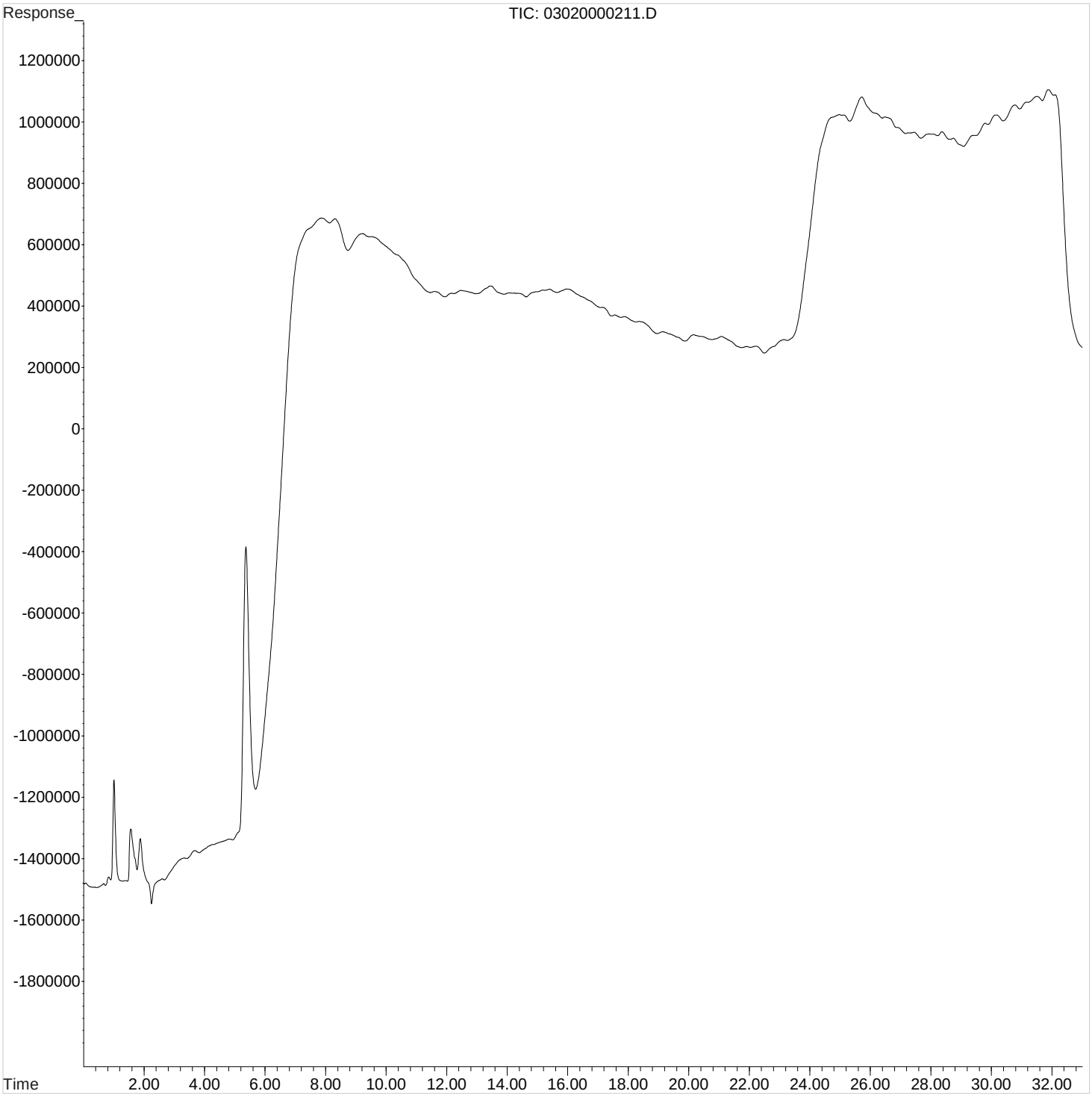
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000211.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 18:02:18 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:22:32 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000211.
Lab ID: KWG1701860-4
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/02/2017 18:02
Date Quantitated: 03/06/2017 15:22
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000211.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 18:02	**Quant Date:**	03/06/2017 15:22	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701860-4			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000211.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 18:02	**Quant Date:**	03/06/2017 15:22	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701860-4			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000211.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 18:02	**Quant Date:**	03/06/2017 15:22	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701860-4			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000211.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 18:02:18 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:22:32 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L d
Target Compounds					
1) T	Nitroglycerin	0.000	0	N.D.	ug/L
2) T	PETN	0.000	0	N.D.	ug/L d

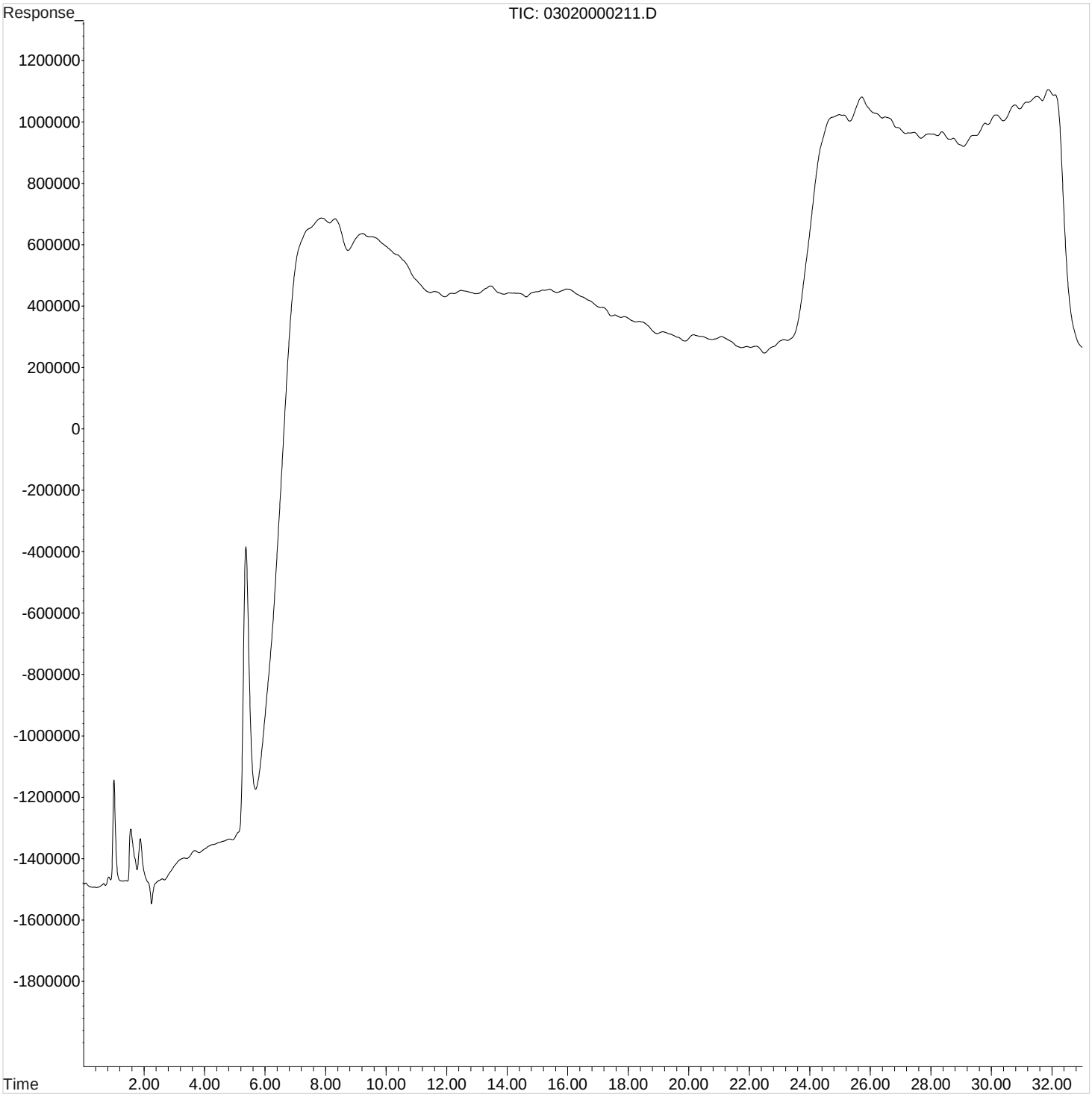
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000211.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 18:02:18 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:22:32 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000211.
Lab ID: KWG1701860-4
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/02/2017 18:02
Date Quantitated: 03/06/2017 15:22
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000211.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 18:02	**Quant Date:**	03/06/2017 15:22	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701860-4			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000211.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 18:02	**Quant Date:**	03/06/2017 15:22	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701860-4			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000211.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 18:02	**Quant Date:**	03/06/2017 15:22	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701860-4			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000211.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 18:02:18 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:22:32 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L d
Target Compounds					
1) T	Nitroglycerin	0.000	0	N.D.	ug/L
2) T	PETN	0.000	0	N.D.	ug/L d

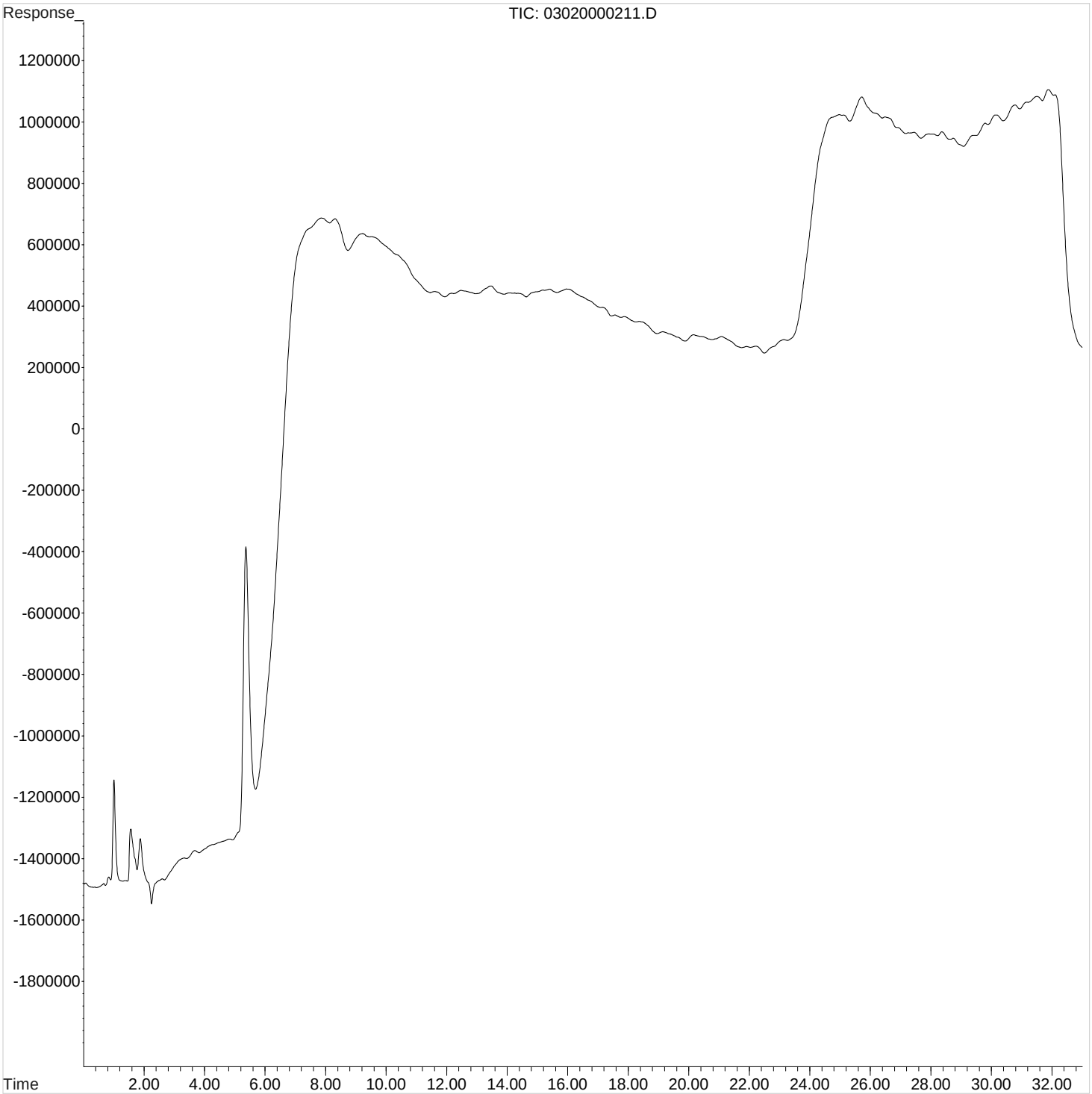
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000211.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 18:02:18 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:22:32 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000211.
Lab ID: KWG1701860-4
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/02/2017 18:02
Date Quantitated: 03/06/2017 15:22
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000211.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 18:02	**Quant Date:**	03/06/2017 15:22	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701860-4			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000211.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 18:02	**Quant Date:**	03/06/2017 15:22	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701860-4			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000211.D			**Instrument:**	LC10
Acqu Date:	03/02/2017 18:02	**Quant Date:**	03/06/2017 15:22	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701860-4			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000211.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 18:02:18 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:22:32 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
Target Compounds						
1) T	Nitroglycerin	0.000	0	N.D.	ug/L	
2) T	PETN	0.000	0	N.D.	ug/L	d

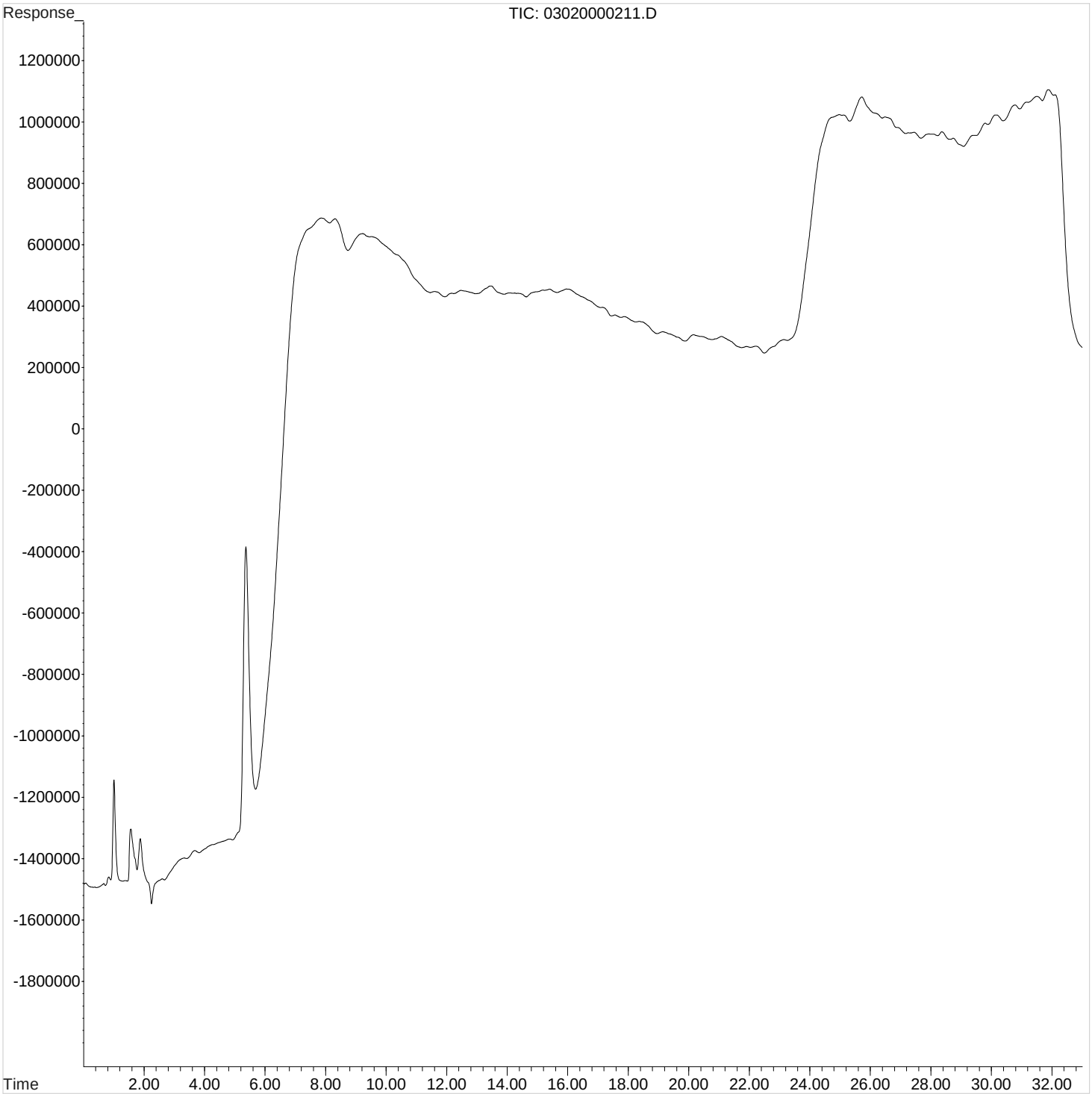
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000211.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 02-Mar-2017, 18:02:18 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:22:32 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000222.
Lab ID: KWG1701860-6
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 00:40
Date Quantitated: 03/08/2017 13:52
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000222.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 00:40	**Quant Date:**	03/08/2017 13:52	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701860-6			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.45		148501**m**	2.61		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.61		1653916**m**	79.34			
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000222.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 00:40	**Quant Date:**	03/08/2017 13:52	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701860-6			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.45		148501**m**	2.61		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.61		1653916**m**	79.34			
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000222.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 00:40	**Quant Date:**	03/08/2017 13:52	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701860-6			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.45		148501**m**	2.61		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.61		1653916**m**	79.34			
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000222.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 00:40:54 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 13:52:16 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.448	148501	2.612	ug/L	m
Target Compounds						
1) T	Nitroglycerin	16.608	1653916	79.337	ug/L	m
2) T	PETN	0.000	0	N.D.	ug/L	d

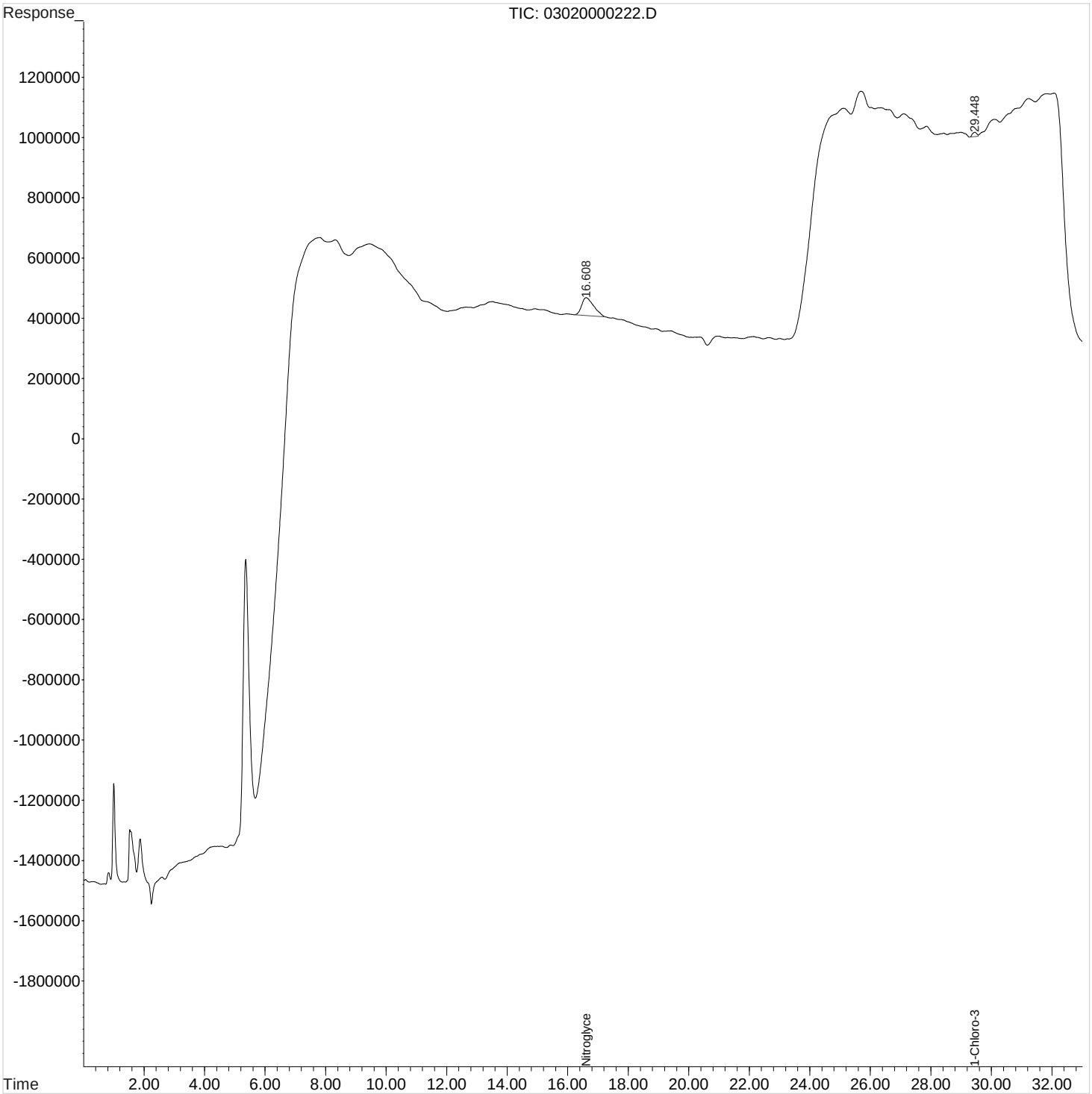
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000222.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 00:40:54 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 13:52:16 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(b) (6)

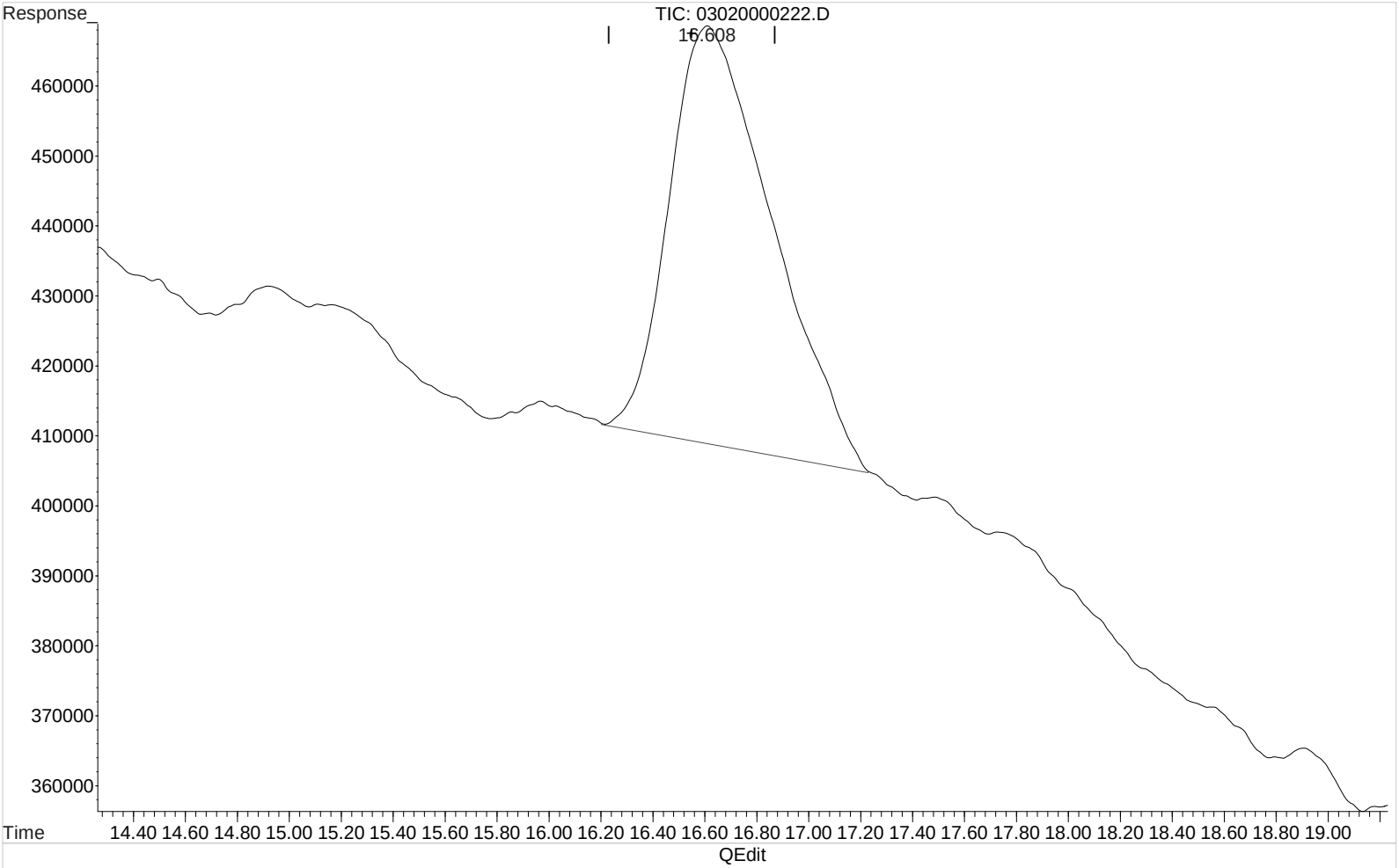
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_210\03020000222.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 00:40:54 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:46:45 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.608min 79.337 ug/L m

response 1653916

Manual Integration:

After

BLC

03/08/17

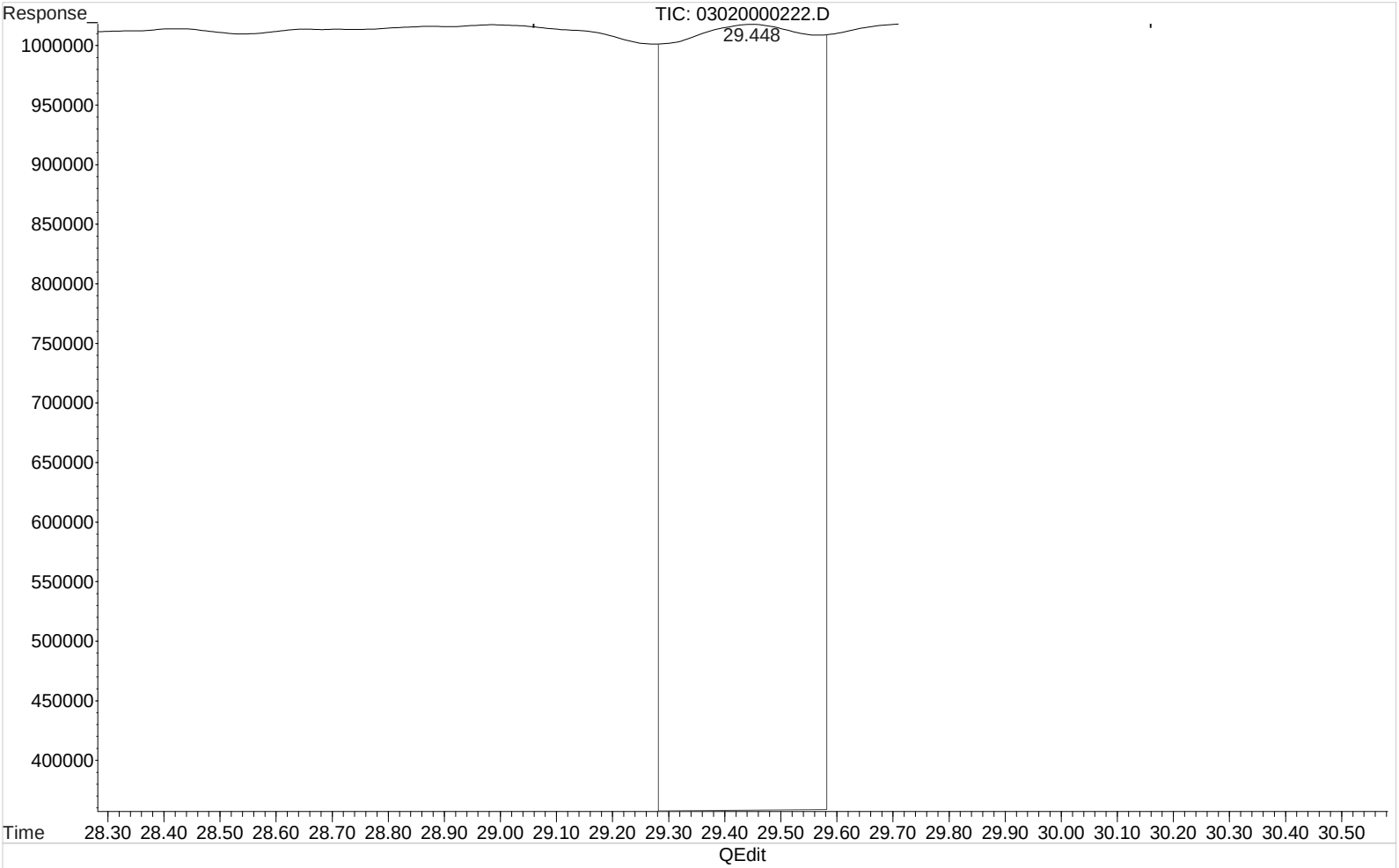
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000222.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 00:40:54 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:46:45 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.448min 206.801 ug/L

response 11759104

Manual Integration:

Before

03/08/17

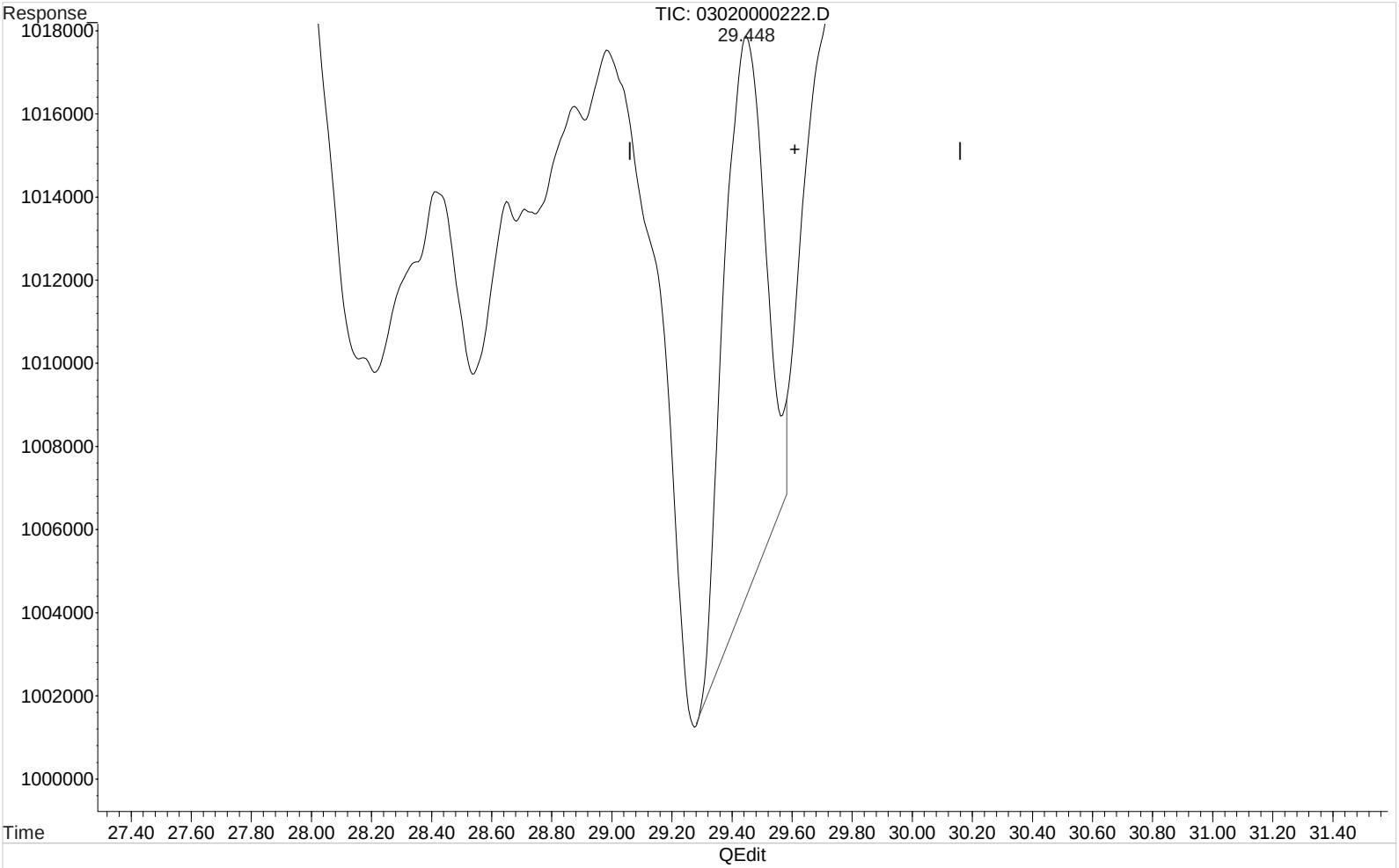
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000222.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 00:40:54 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:46:45 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

29.448min 2.305 ug/L m

response 131068

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000222.
Lab ID: KWG1701860-6
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 00:40
Date Quantitated: 03/08/2017 13:52
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000222.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 00:40	**Quant Date:**	03/08/2017 13:52	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701860-6			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.45		148501**m**	2.61		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.61		1653916**m**	79.34			
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000222.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 00:40	**Quant Date:**	03/08/2017 13:52	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701860-6			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.45		148501**m**	2.61		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.61		1653916**m**	79.34			
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000222.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 00:40	**Quant Date:**	03/08/2017 13:52	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701860-6			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.45		148501**m**	2.61		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.61		1653916**m**	79.34			
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000222.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 00:40:54 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 13:52:16 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.448	148501	2.612	ug/L	m
Target Compounds						
1) T	Nitroglycerin	16.608	1653916	79.337	ug/L	m
2) T	PETN	0.000	0	N.D.	ug/L	d

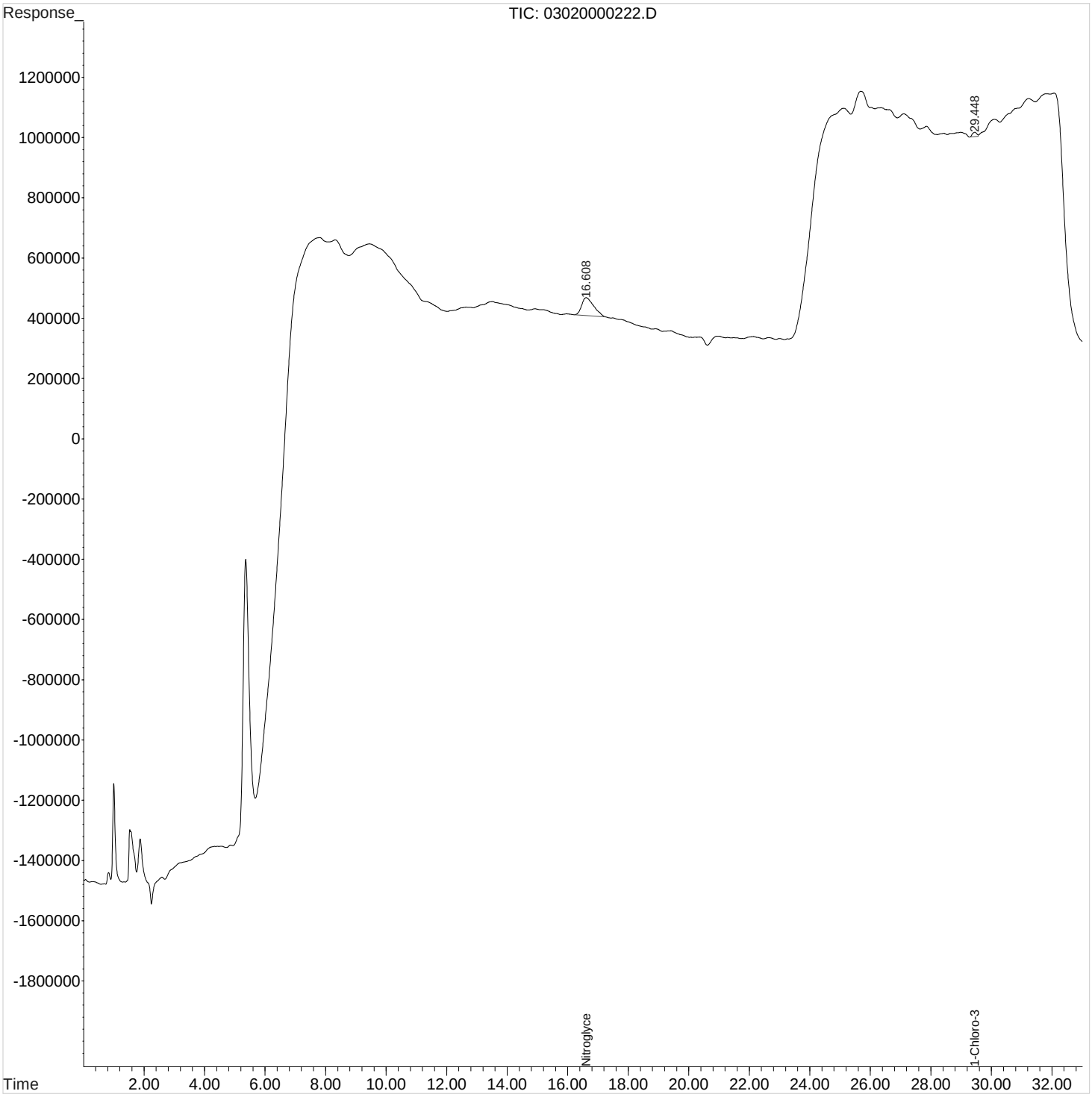
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000222.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 00:40:54 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 13:52:16 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

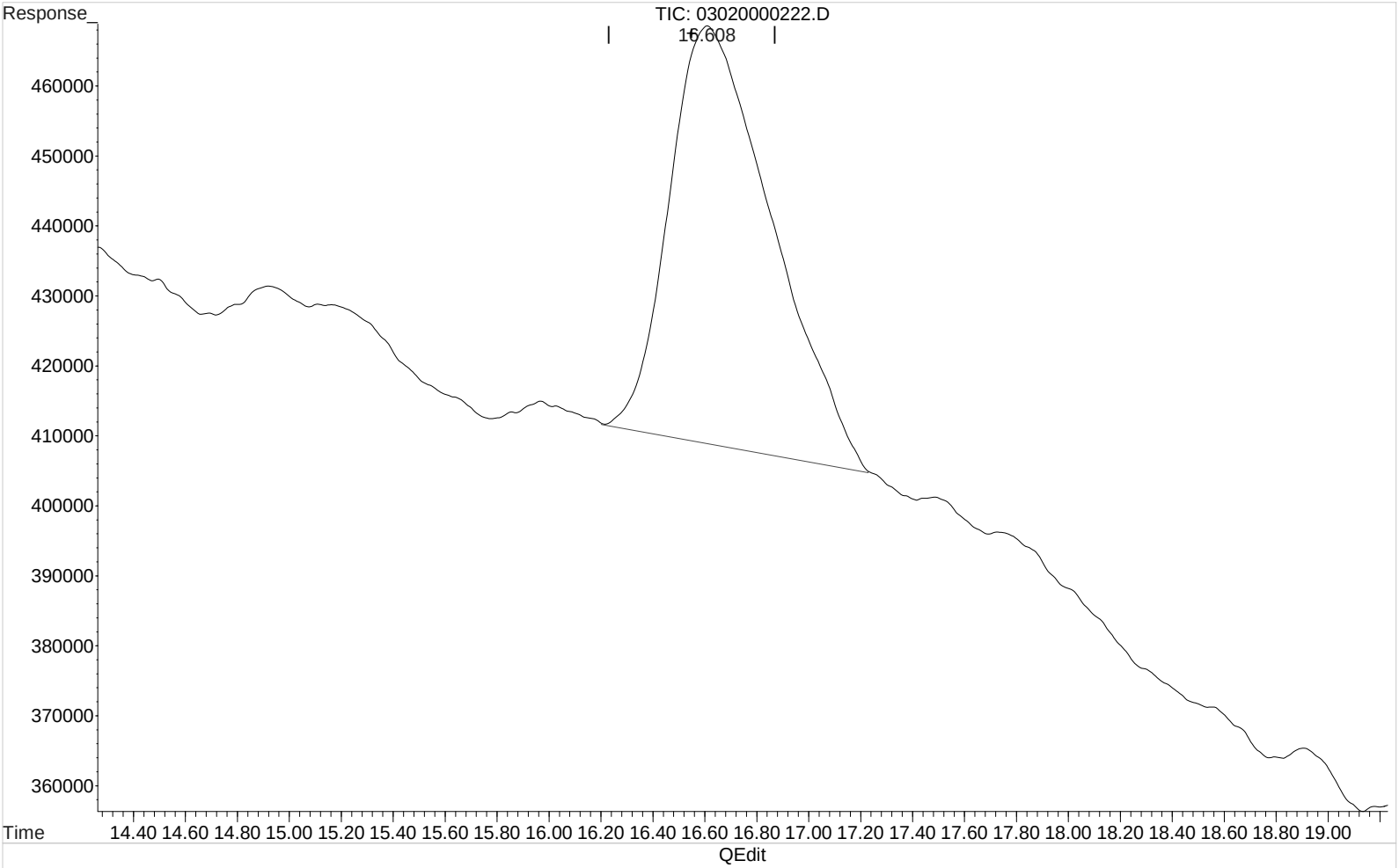


Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000222.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 00:40:54 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:46:45 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.608min 79.337 ug/L m

response 1653916

Manual Integration:

After

BLC

03/08/17

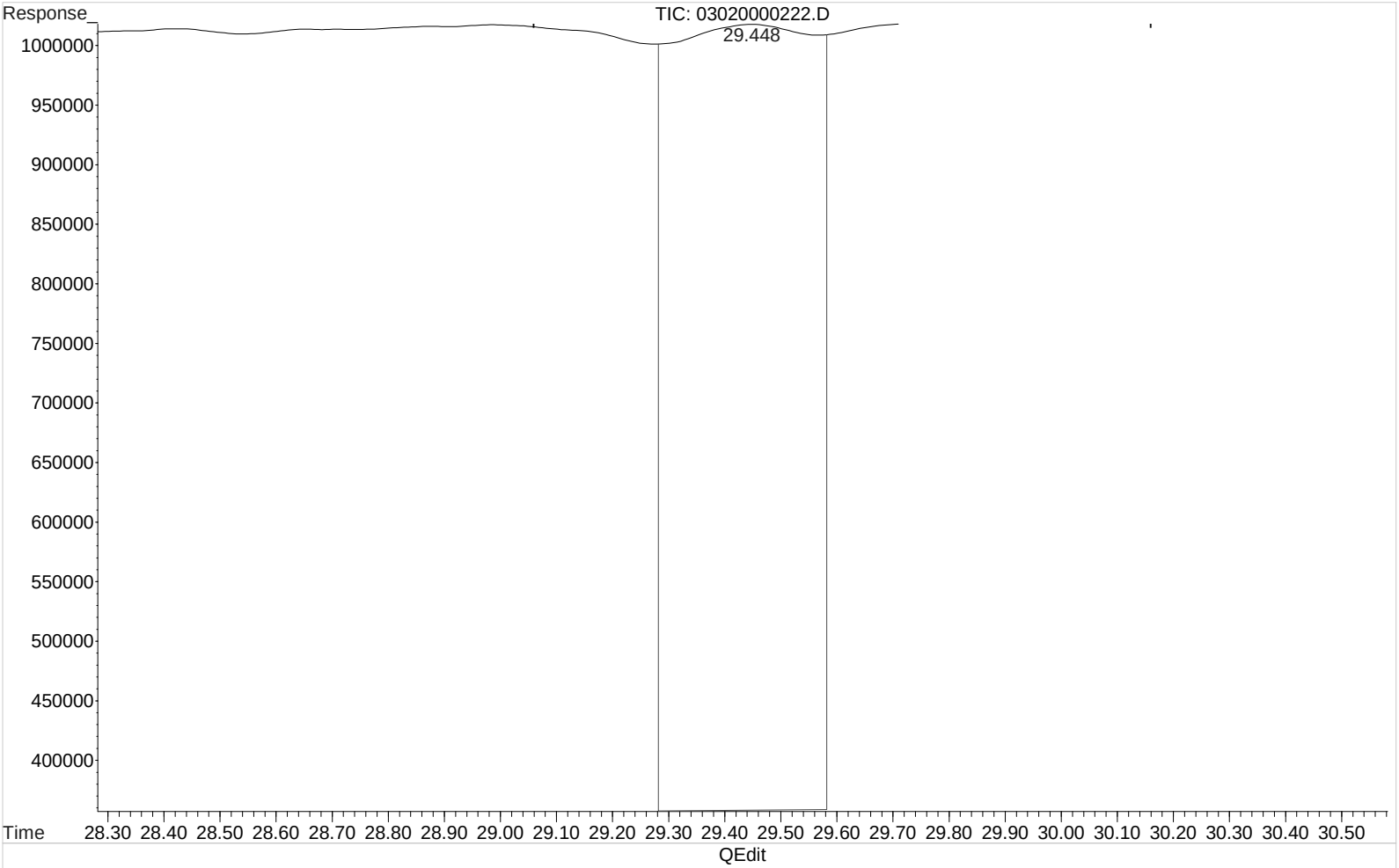
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000222.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 00:40:54 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:46:45 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.448min 206.801 ug/L

response 11759104

Manual Integration:

Before

03/08/17

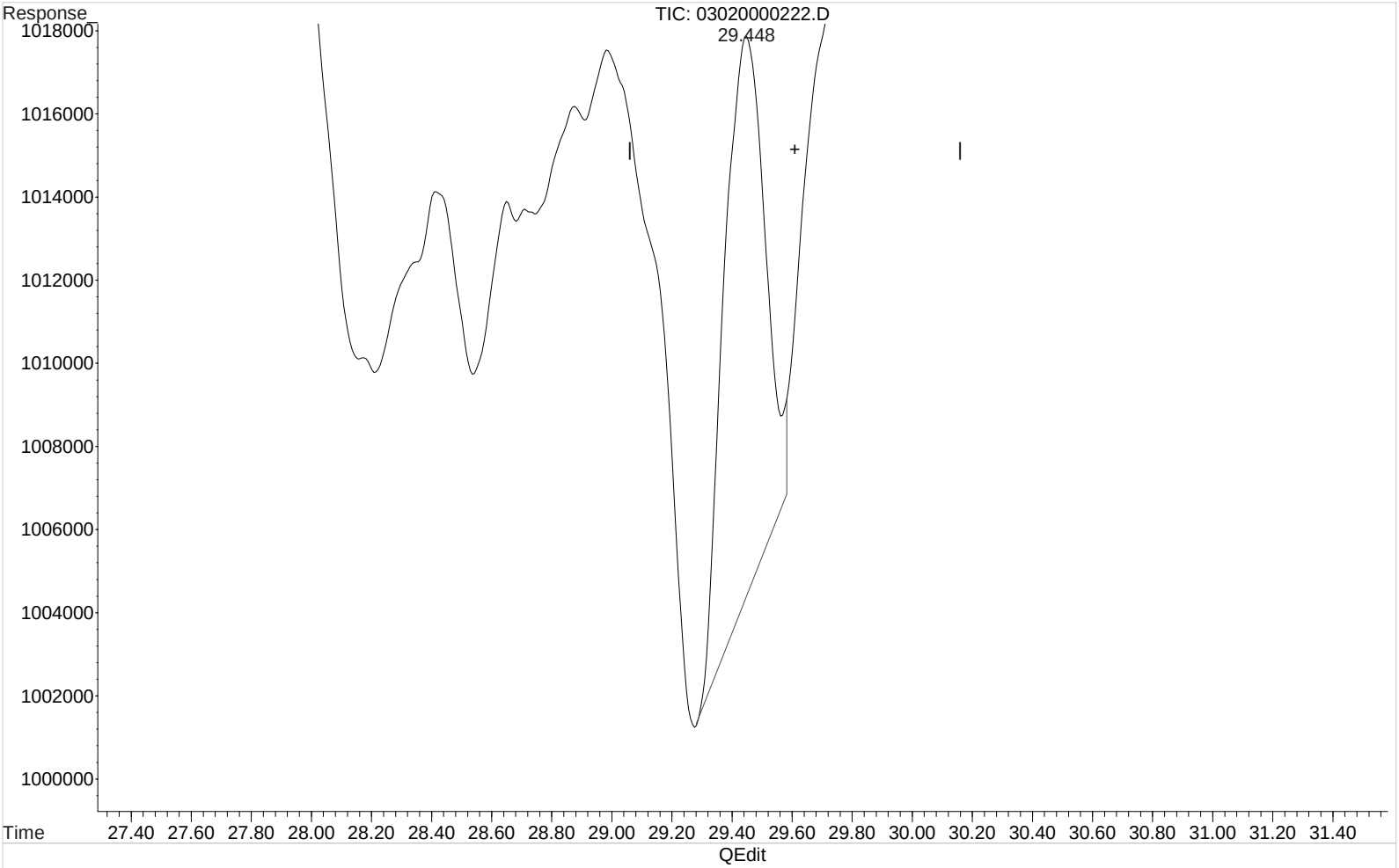
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000222.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 00:40:54 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:46:45 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

29.448min 2.305 ug/L m

response 131068

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000222.
Lab ID: KWG1701860-6
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 00:40
Date Quantitated: 03/08/2017 13:52
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000222.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 00:40	**Quant Date:**	03/08/2017 13:52	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701860-6			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.45		148501**m**	2.61		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.61		1653916**m**	79.34			
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000222.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 00:40	**Quant Date:**	03/08/2017 13:52	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701860-6			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.45		148501**m**	2.61		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.61		1653916**m**	79.34			
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000222.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 00:40	**Quant Date:**	03/08/2017 13:52	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701860-6			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.45		148501**m**	2.61		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.61		1653916**m**	79.34			
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000222.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 00:40:54 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 13:52:16 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.448	148501	2.612	ug/L	m
Target Compounds						
1) T	Nitroglycerin	16.608	1653916	79.337	ug/L	m
2) T	PETN	0.000	0	N.D.	ug/L	d

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

(b) (6)

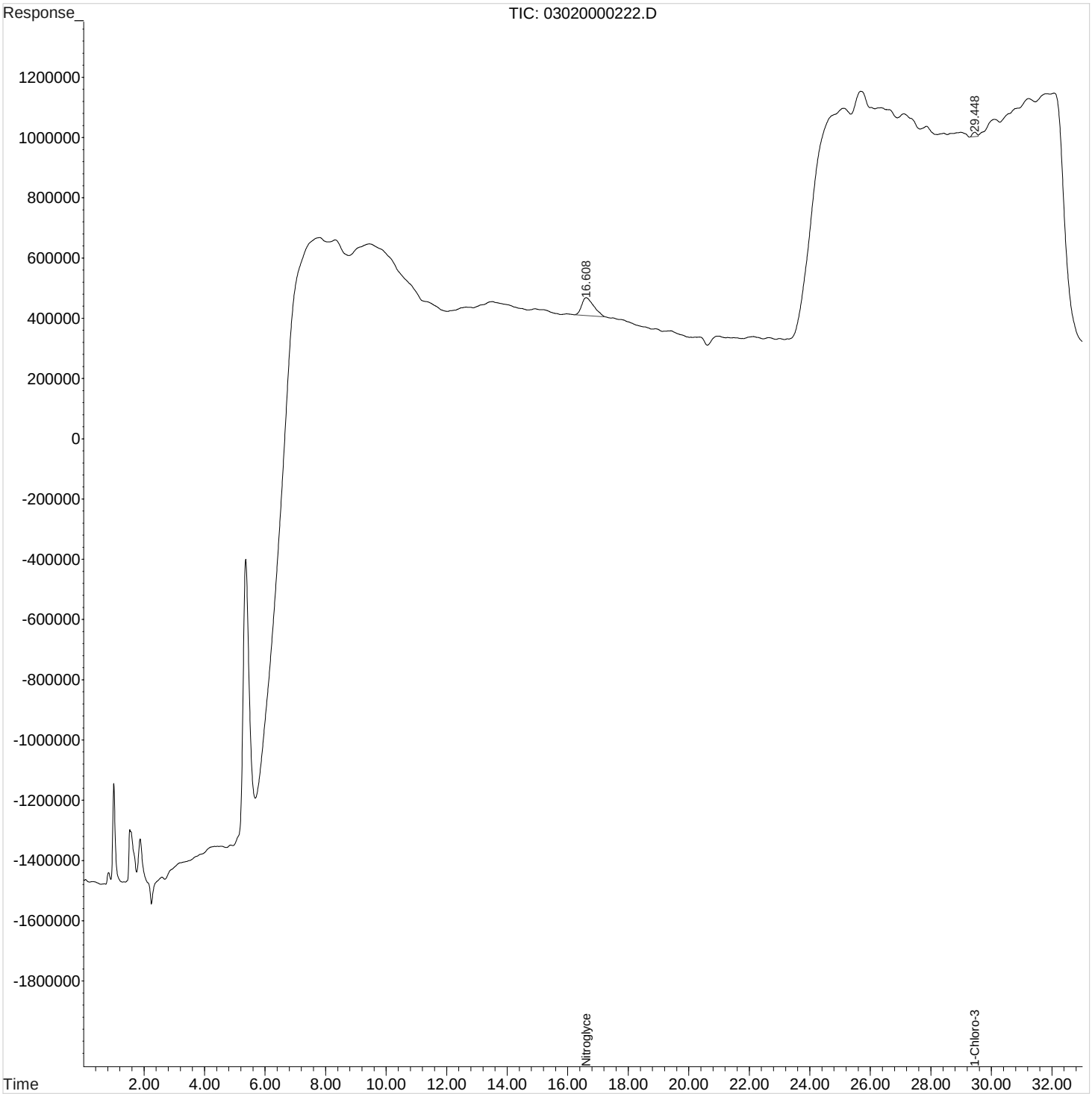
03/14/17

03/29/17

Data File : J:\LC10\Data\030317_8330_210\03020000222.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 00:40:54 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 13:52:16 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

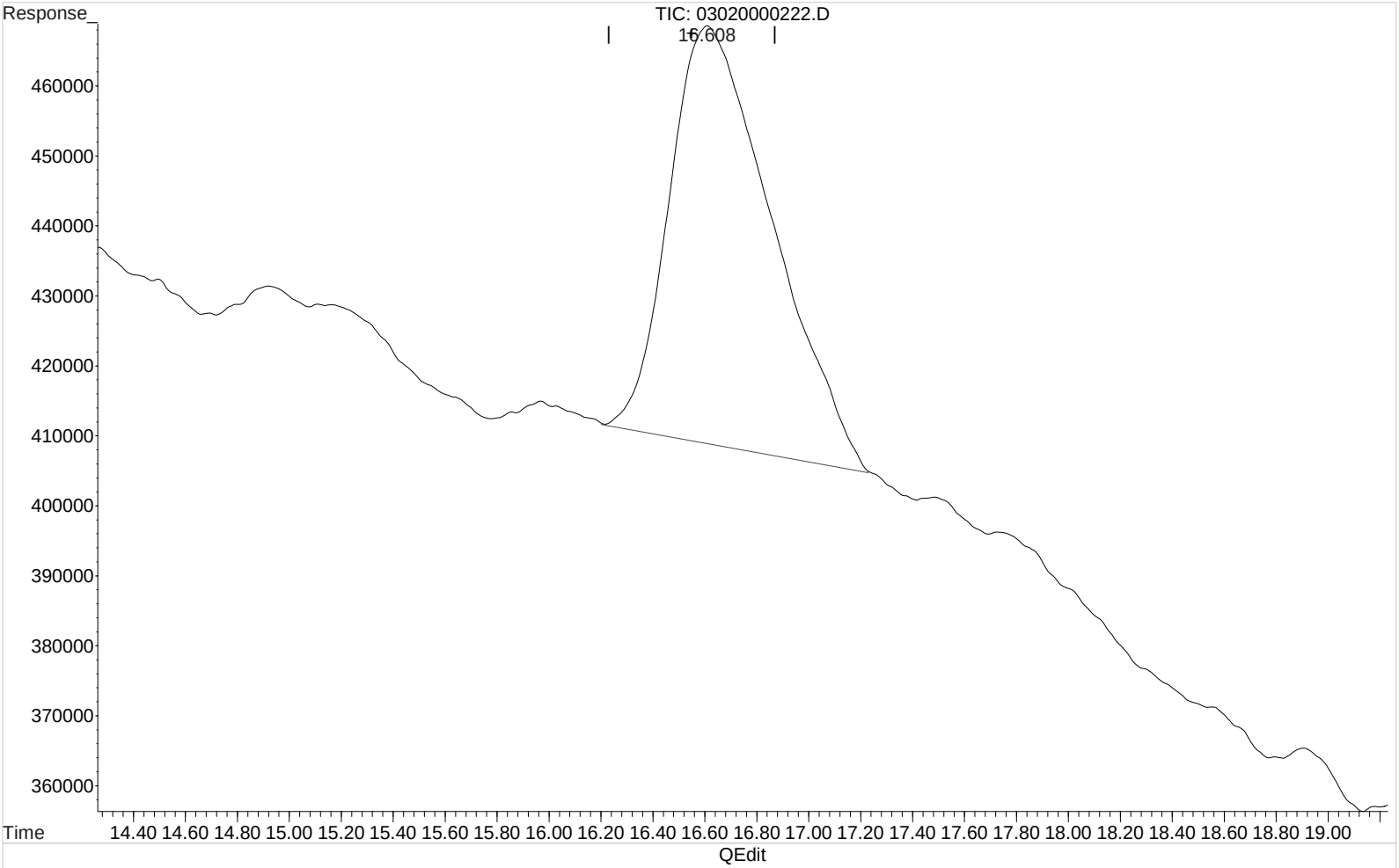


Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000222.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 00:40:54 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:46:45 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.608min 79.337 ug/L m

response 1653916

Manual Integration:

After

BLC

03/08/17

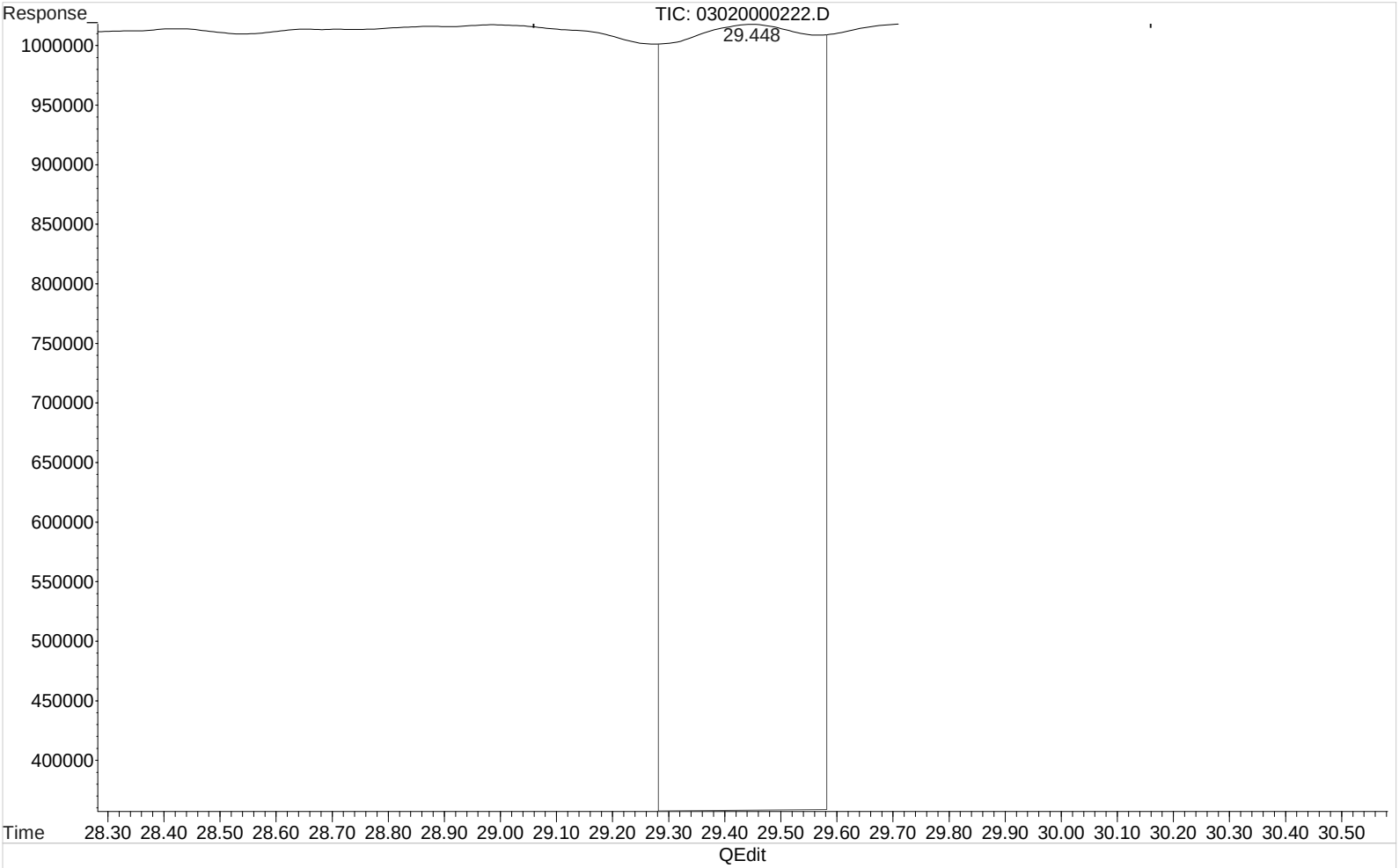
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000222.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 00:40:54 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:46:45 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.448min 206.801 ug/L

response 11759104

Manual Integration:

Before

03/08/17

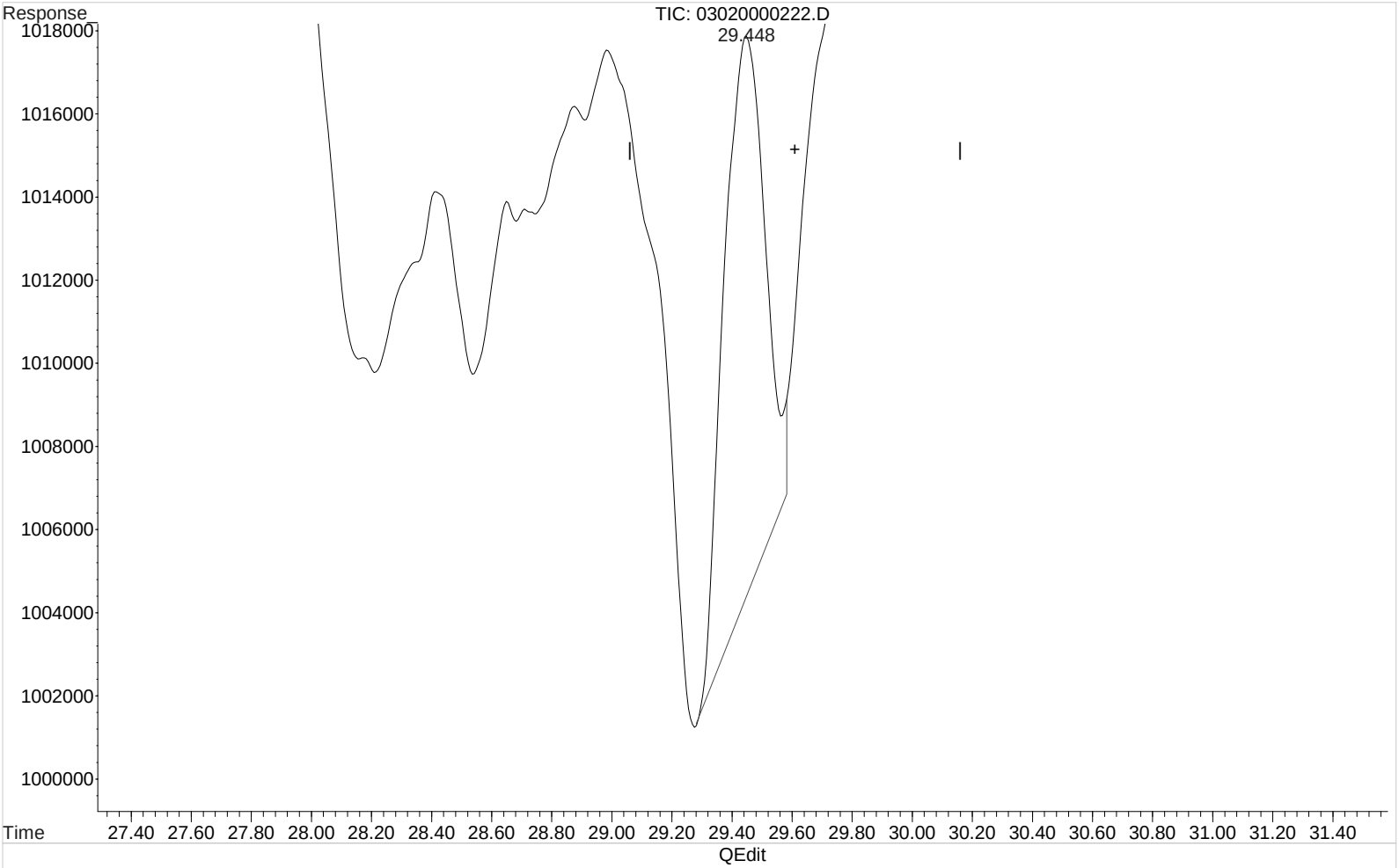
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000222.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 00:40:54 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:46:45 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

29.448min 2.305 ug/L m

response 131068

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000222.
Lab ID: KWG1701860-6
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 00:40
Date Quantitated: 03/08/2017 13:52
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000222.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 00:40	**Quant Date:**	03/08/2017 13:52	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701860-6			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.45		148501**m**	2.61		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.61		1653916**m**	79.34			
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000222.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 00:40	**Quant Date:**	03/08/2017 13:52	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701860-6			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.45		148501**m**	2.61		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.61		1653916**m**	79.34			
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000222.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 00:40	**Quant Date:**	03/08/2017 13:52	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701860-6			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	29.45		148501**m**	2.61		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin	16.61		1653916**m**	79.34			
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000222.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 00:40:54 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 13:52:16 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.448	148501	2.612	ug/L	m
Target Compounds						
1) T	Nitroglycerin	16.608	1653916	79.337	ug/L	m
2) T	PETN	0.000	0	N.D.	ug/L	d

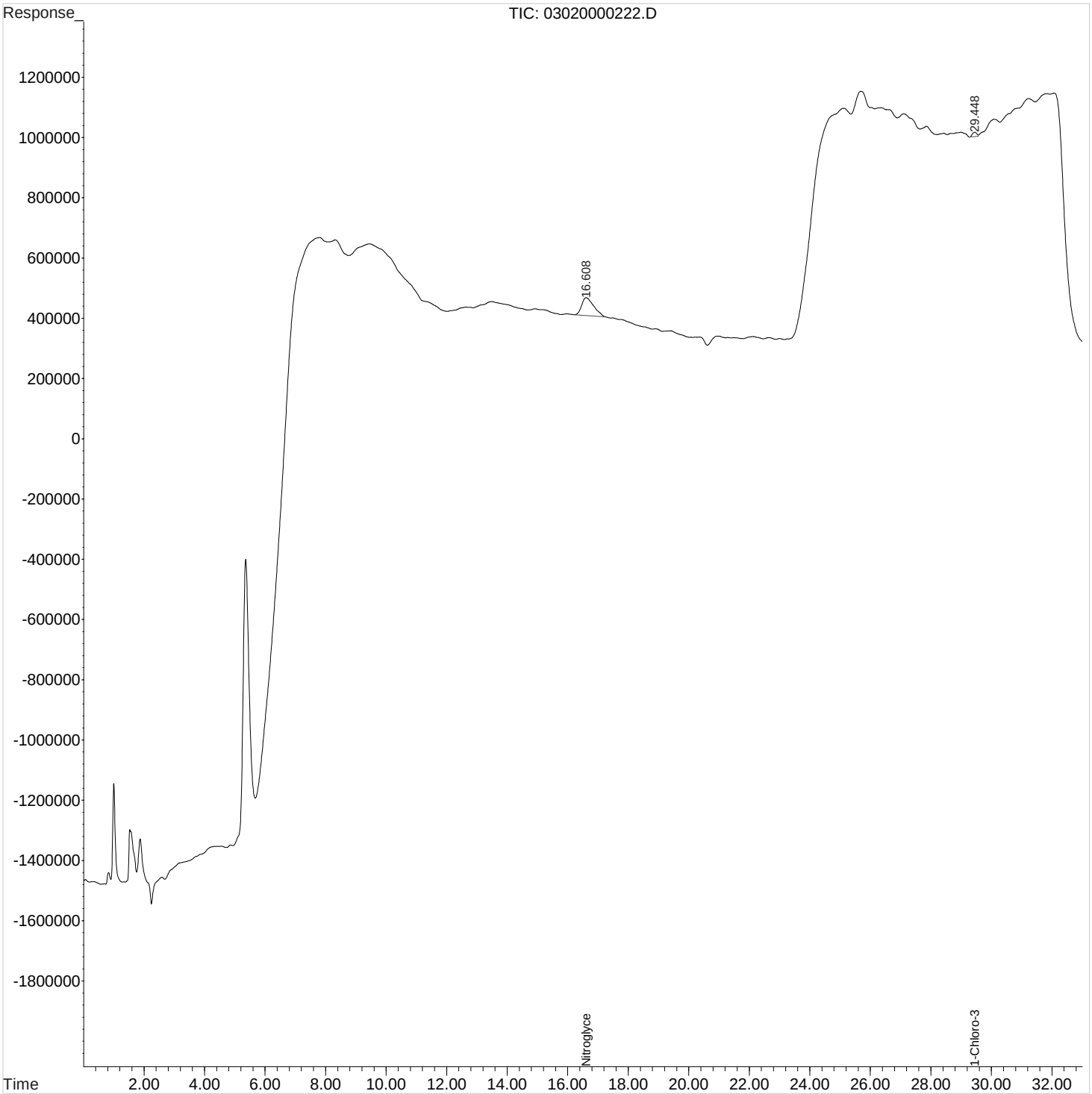
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000222.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 00:40:54 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 08 13:52:16 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

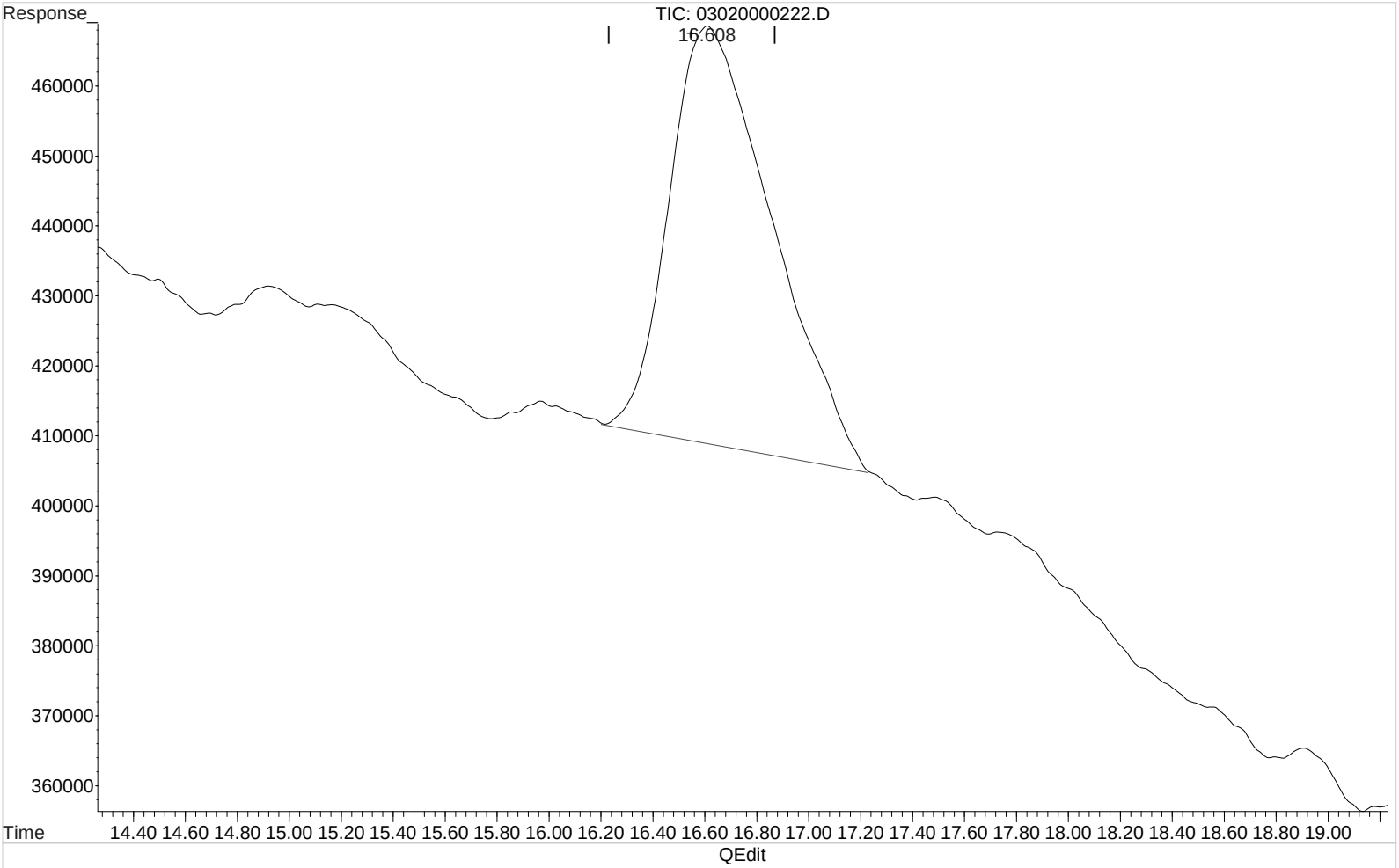


Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000222.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 00:40:54 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:46:45 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.608min 79.337 ug/L m

response 1653916

Manual Integration:

After

BLC

03/08/17

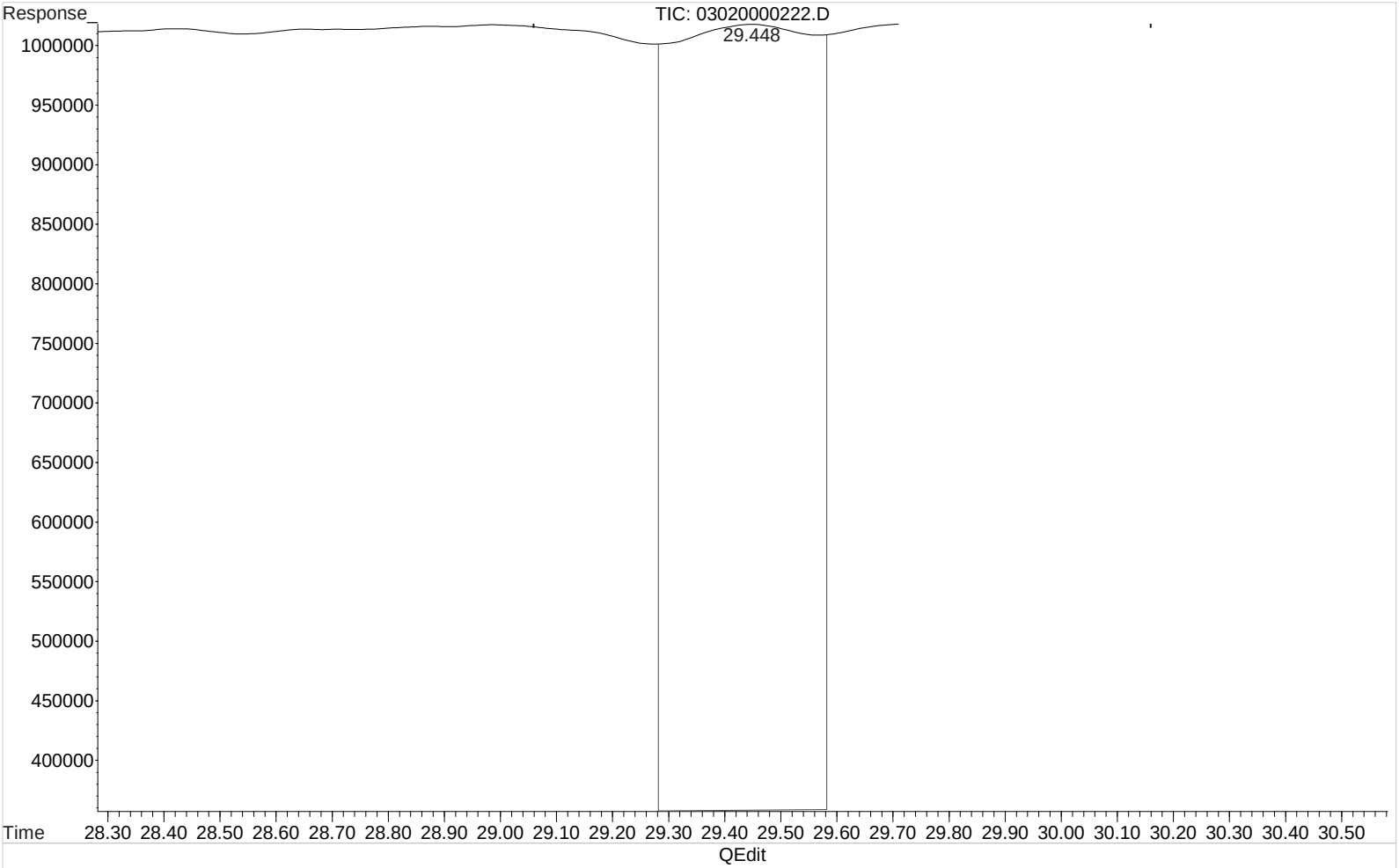
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000222.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 00:40:54 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:46:45 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.448min 206.801 ug/L

response 11759104

Manual Integration:

Before

03/08/17

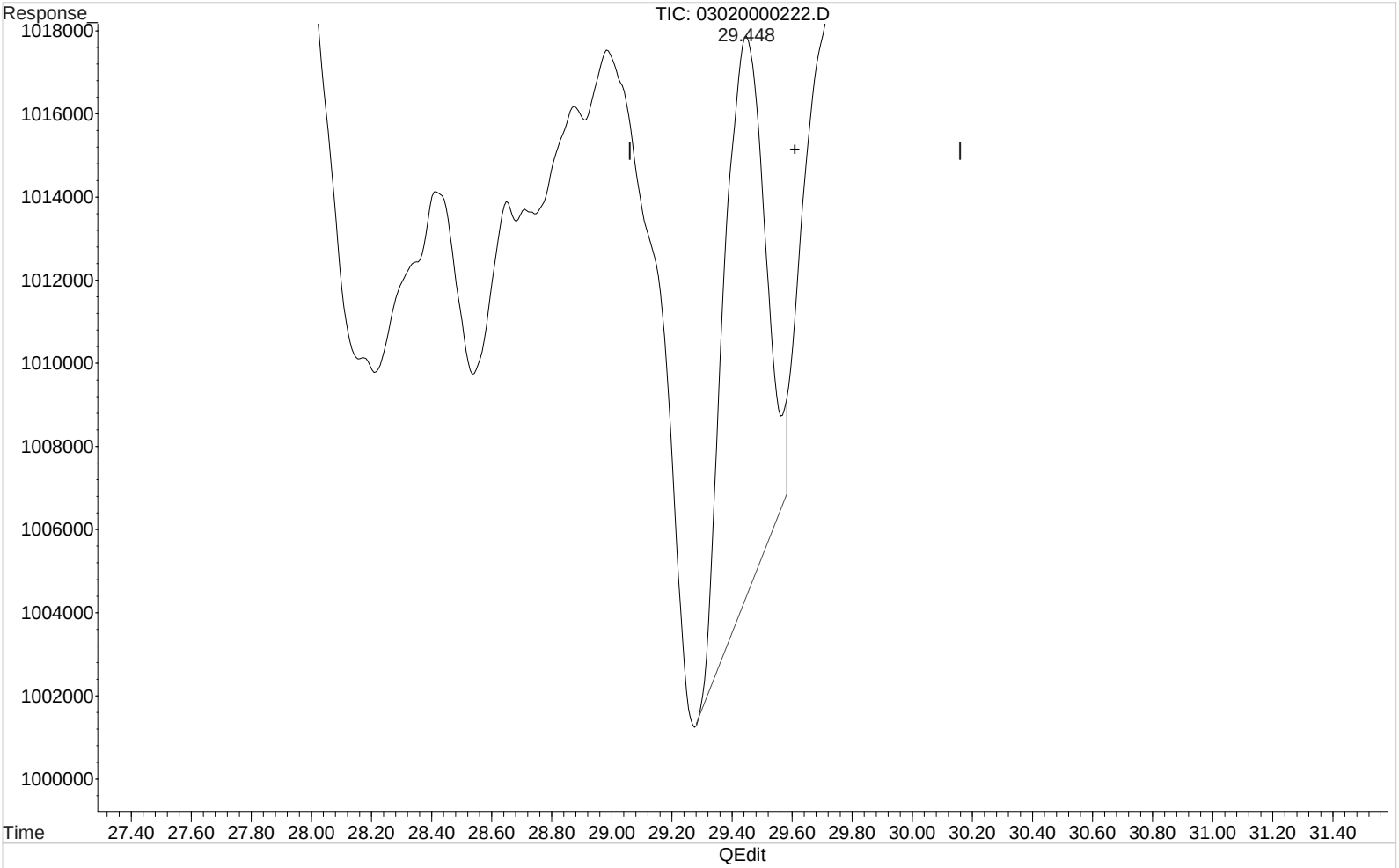
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\030317_8330_210\03020000222.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 00:40:54 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:46:45 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

29.448min 2.305 ug/L m

response 131068

Manual Integration:

After

BLC

03/08/17

(+) = Expected Retention Time

Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000228.
Lab ID: KWG1701860-8
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 04:18
Date Quantitated: 03/06/2017 15:55
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000228.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 04:18	**Quant Date:**	03/06/2017 15:55	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701860-8			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000228.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 04:18	**Quant Date:**	03/06/2017 15:55	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701860-8			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

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N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
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?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000228.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 04:18	**Quant Date:**	03/06/2017 15:55	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701860-8			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

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d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000228.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 04:18:19 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:55:13 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
Target Compounds						
1) T	Nitroglycerin	0.000	0	N.D.	ug/L	d
2) T	PETN	0.000	0	N.D.	ug/L	d

(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)

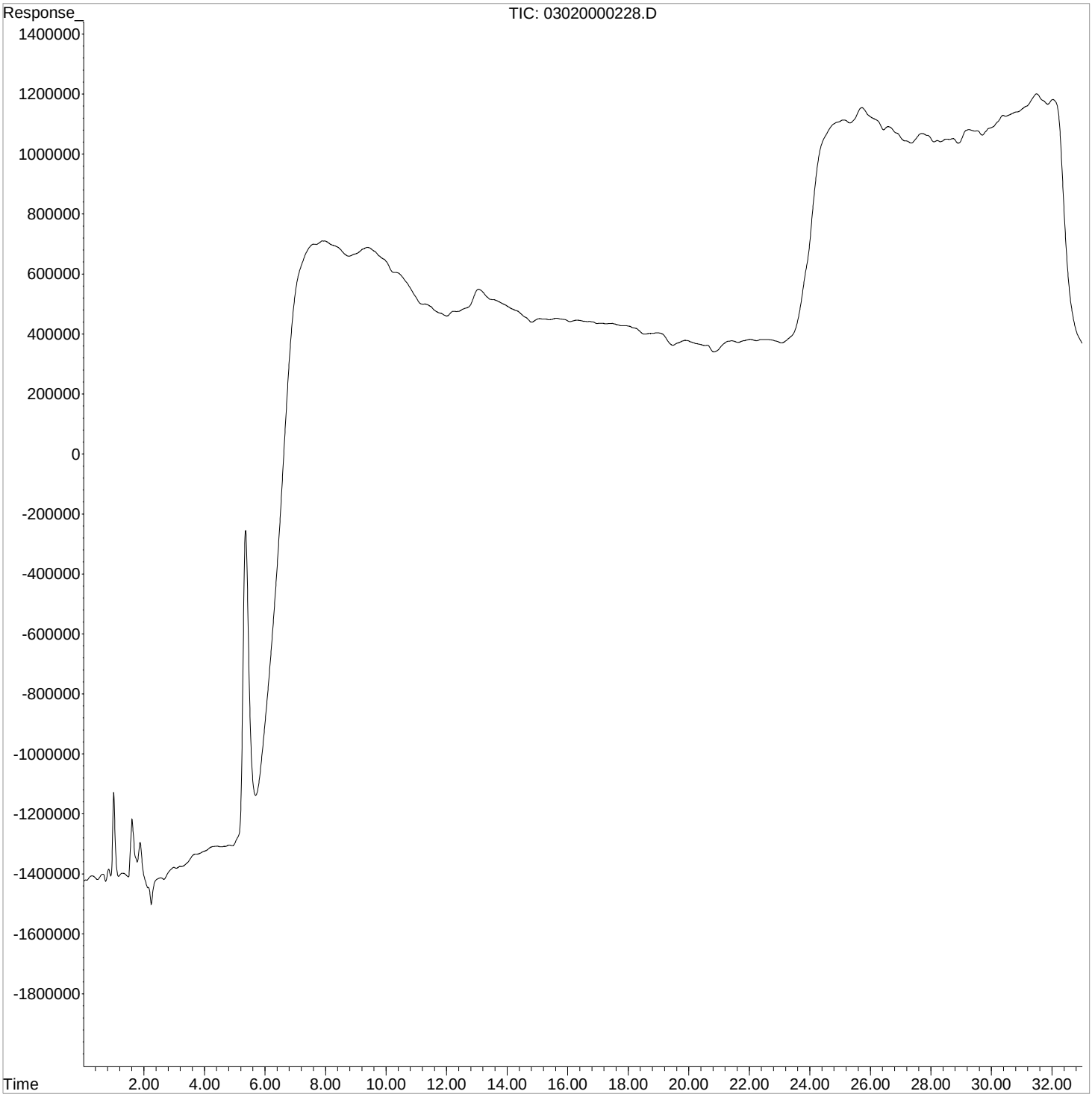
3/14/17

3/29/17

Data File : J:\LC10\Data\030317_8330_210\03020000228.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 04:18:19 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:55:13 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000228.
Lab ID: KWG1701860-8
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 04:18
Date Quantitated: 03/06/2017 15:55
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000228.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 04:18	**Quant Date:**	03/06/2017 15:55	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701860-8			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000228.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 04:18	**Quant Date:**	03/06/2017 15:55	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701860-8			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
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D: Result from dilution
m: Manual integration performed
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NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000228.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 04:18	**Quant Date:**	03/06/2017 15:55	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701860-8			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000228.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 04:18:19 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:55:13 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
Target Compounds						
1) T	Nitroglycerin	0.000	0	N.D.	ug/L	d
2) T	PETN	0.000	0	N.D.	ug/L	d

(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)

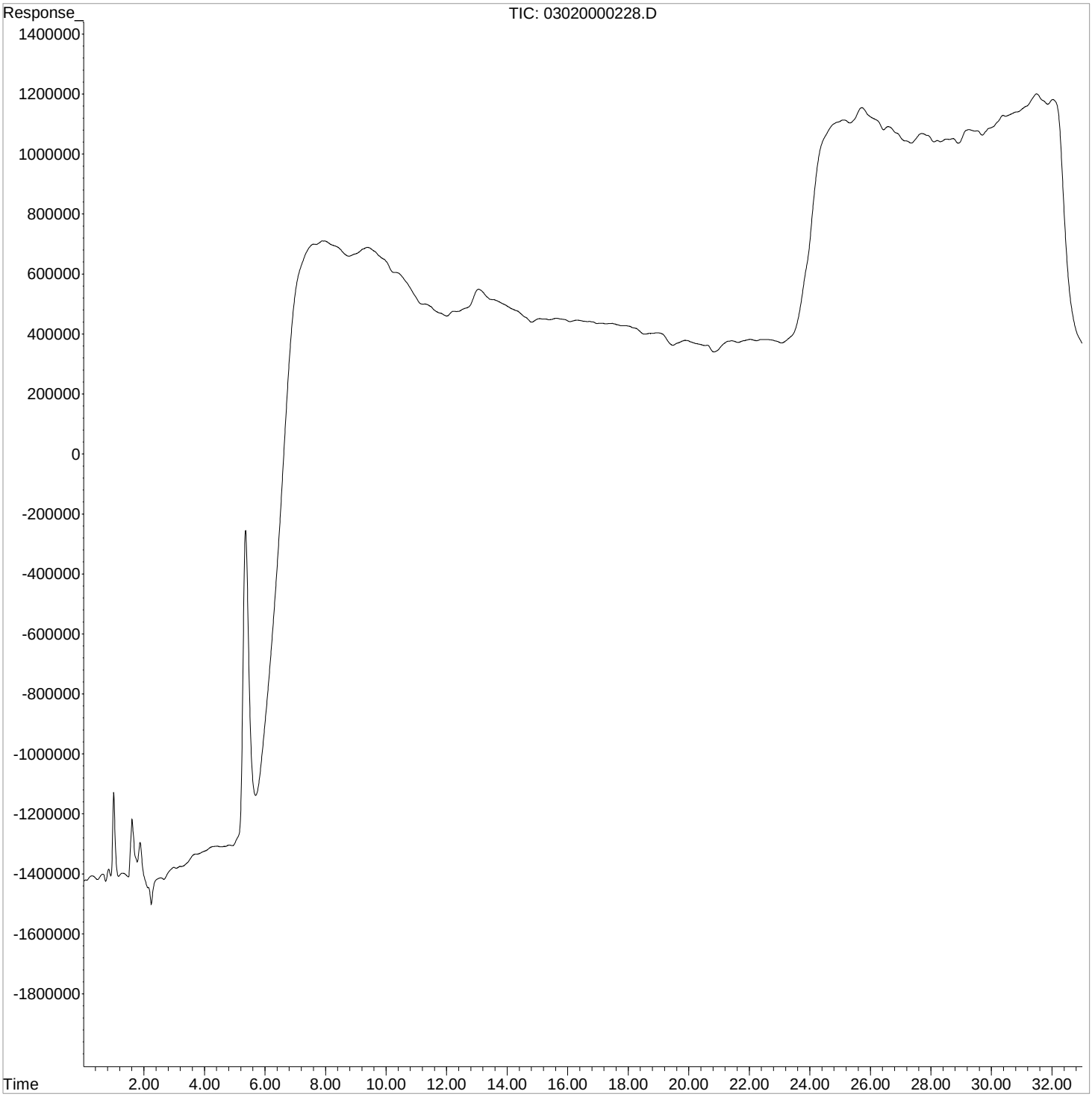
3/14/17

3/29/17

Data File : J:\LC10\Data\030317_8330_210\03020000228.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 04:18:19 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:55:13 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000228.
Lab ID: KWG1701860-8
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 04:18
Date Quantitated: 03/06/2017 15:55
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000228.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 04:18	**Quant Date:**	03/06/2017 15:55	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701860-8			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000228.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 04:18	**Quant Date:**	03/06/2017 15:55	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701860-8			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
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Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000228.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 04:18	**Quant Date:**	03/06/2017 15:55	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701860-8			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

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J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
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*: Result fails acceptance criteria
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e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000228.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 04:18:19 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:55:13 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
Target Compounds						
1) T	Nitroglycerin	0.000	0	N.D.	ug/L	d
2) T	PETN	0.000	0	N.D.	ug/L	d

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000228.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 04:18:19 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:55:13 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
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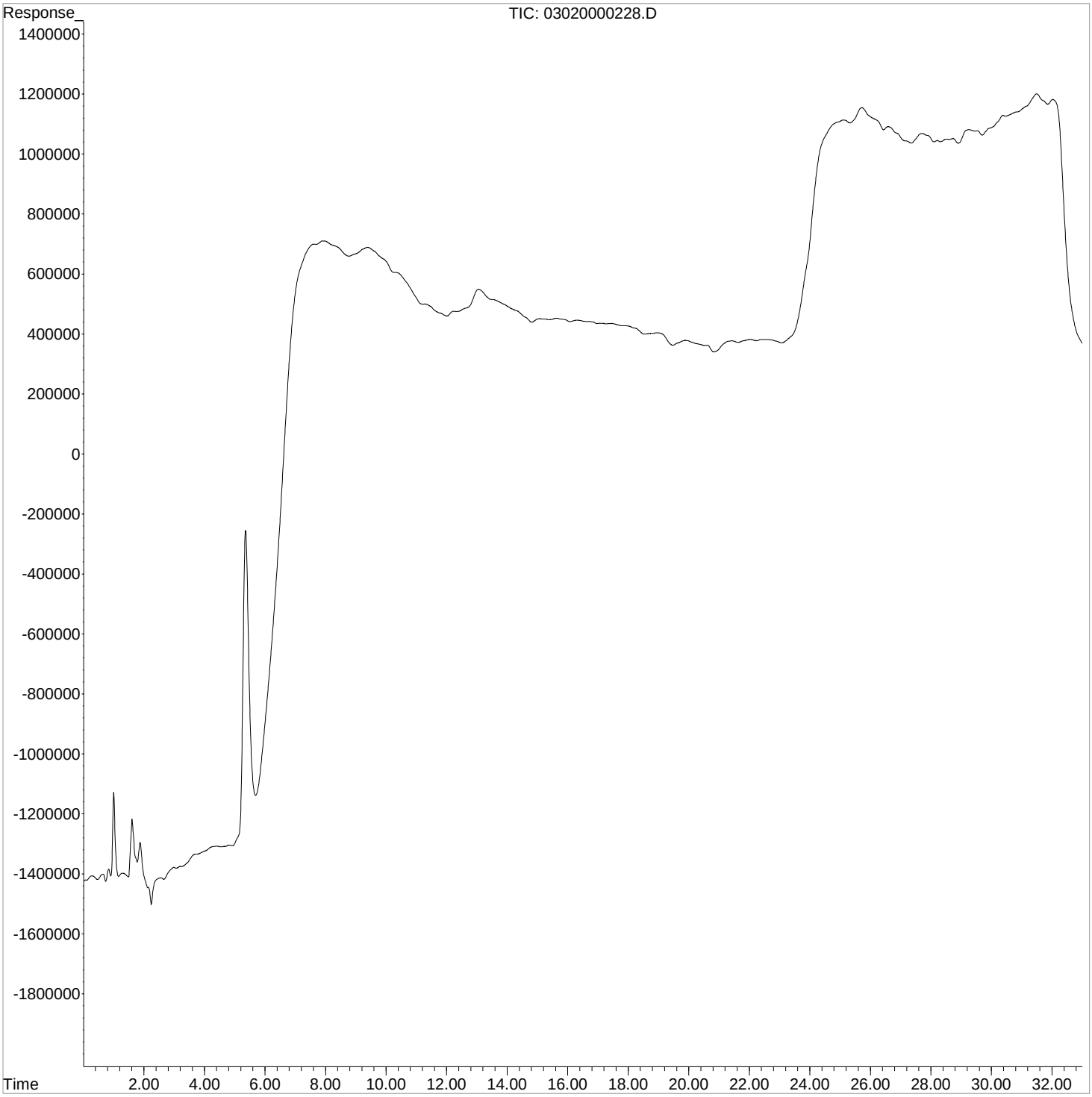
Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Exception Report

Data File: J:\LC10\DATA\030317_8330_210\03020000228.
Lab ID: KWG1701860-8
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/03/2017 04:18
Date Quantitated: 03/06/2017 15:55
Batch ID: KWG1701860
Analysis Method: 8330B
MethodJoinID: MJ1432

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000228.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 04:18	**Quant Date:**	03/06/2017 15:55	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1701860-8			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000228.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 04:18	**Quant Date:**	03/06/2017 15:55	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1277	**Dilution:**	1.0
Lab ID:	KWG1701860-8			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1277
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report

Data File:	J:\LC10\DATA\030317_8330_210\03020000228.D			**Instrument:**	LC10
Acqu Date:	03/03/2017 04:18	**Quant Date:**	03/06/2017 15:55	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701860-8			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLI
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/07/2017

Analysis Lot:	KWG1701860	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC10\METHOD\120716_8330B	**Calibration ID:**	CAL15063
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\030317_8330_210\03020000228.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 04:18:19 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:55:13 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
Target Compounds						
1) T	Nitroglycerin	0.000	0	N.D.	ug/L	d
2) T	PETN	0.000	0	N.D.	ug/L	d

(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)

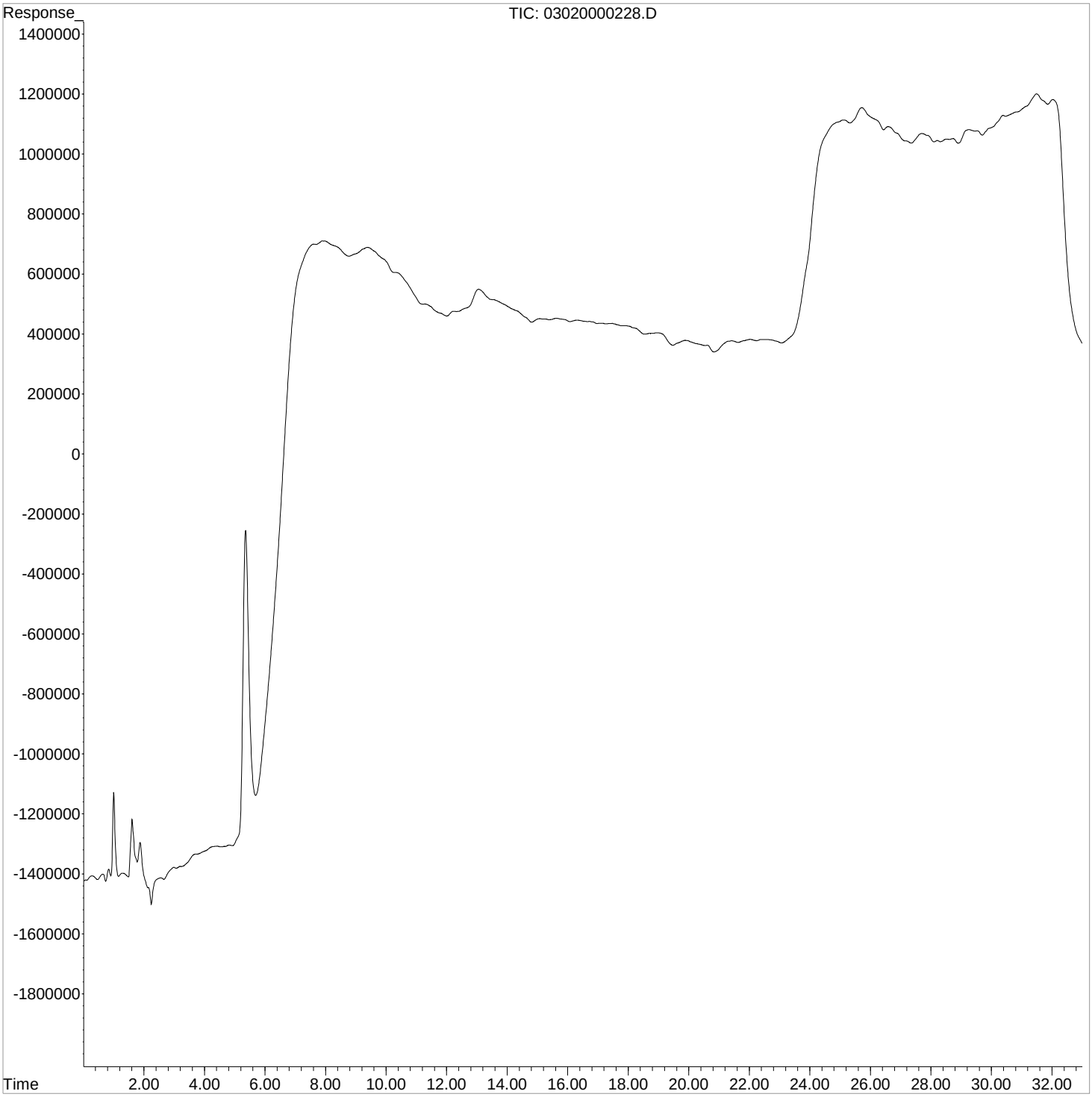
3/14/17

3/29/17

Data File : J:\LC10\Data\030317_8330_210\03020000228.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 03-Mar-2017, 04:18:19 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 06 15:55:13 2017
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL15063
QLast Update : Wed Dec 28 14:27:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Exception Report

Data File: J:\LC08\DATA\030317_8330_254\03030000122.
Lab ID: KWG1701981-3
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/04/2017 04:23
Date Quantitated: 03/10/2017 15:35
Batch ID: KWG1701981
Analysis Method: 8330B
MethodJoinID: MJ1277

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC08\DATA\030317_8330_254\03030000122.D			**Instrument:**	LC08
Acqu Date:	03/04/2017 04:23	**Quant Date:**	03/10/2017 15:35	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701981-3			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/10/2017

Analysis Lot:	KWG1701981	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC08\METHOD\020917_SHORT	**Calibration ID:**	CAL15192
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0**d**			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0**d**				
RDX			0				
Nitrobenzene			0				
3,5-Dinitroaniline			0**d**				
4-Amino-2,6-dinitrotoluene			0**d**				
2-Nitrotoluene			0**d**				
2-Amino-4,6-dinitrotoluene			0**d**				
3-Nitrotoluene			0**d**				
1,3-Dinitrobenzene			0**d**				
4-Nitrotoluene			0**d**				
2,6-Dinitrotoluene			0				
2,4-Dinitrotoluene			0**d**				
TETRYL			0**d**				
1,3,5-Trinitrobenzene			0				
2,4,6-Trinitrotoluene			0				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\030317_8330_254\03030000122.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 04:23:01 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 15:35:46 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
11) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
	Target Compounds					
1) T	HMX	0.000	0	N.D.	ug/L	d
2) T	RDX	0.000	0	N.D.	ug/L	
3) T	Nitrobenzene	0.000	0	N.D.	ug/L	
4) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L	d
5) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L	d
6) T	2-NT	0.000	0	N.D.	ug/L	d
7) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L	d
8) T	3-NT	0.000	0	N.D.	ug/L	d
9) T	1,3-DNB	0.000	0	N.D.	ug/L	d
10) T	4-NT	0.000	0	N.D.	ug/L	d
12) T	2,6-DNT	0.000	0	N.D.	ug/L	
13) T	2,4-DNT	0.000	0	N.D.	ug/L	d
14) T	Tetryl	0.000	0	N.D.	ug/L	d
15) T	1,3,5-TNB	0.000	0	N.D.	ug/L	
16) T	2,4,6-TNT	0.000	0	N.D.	ug/L	

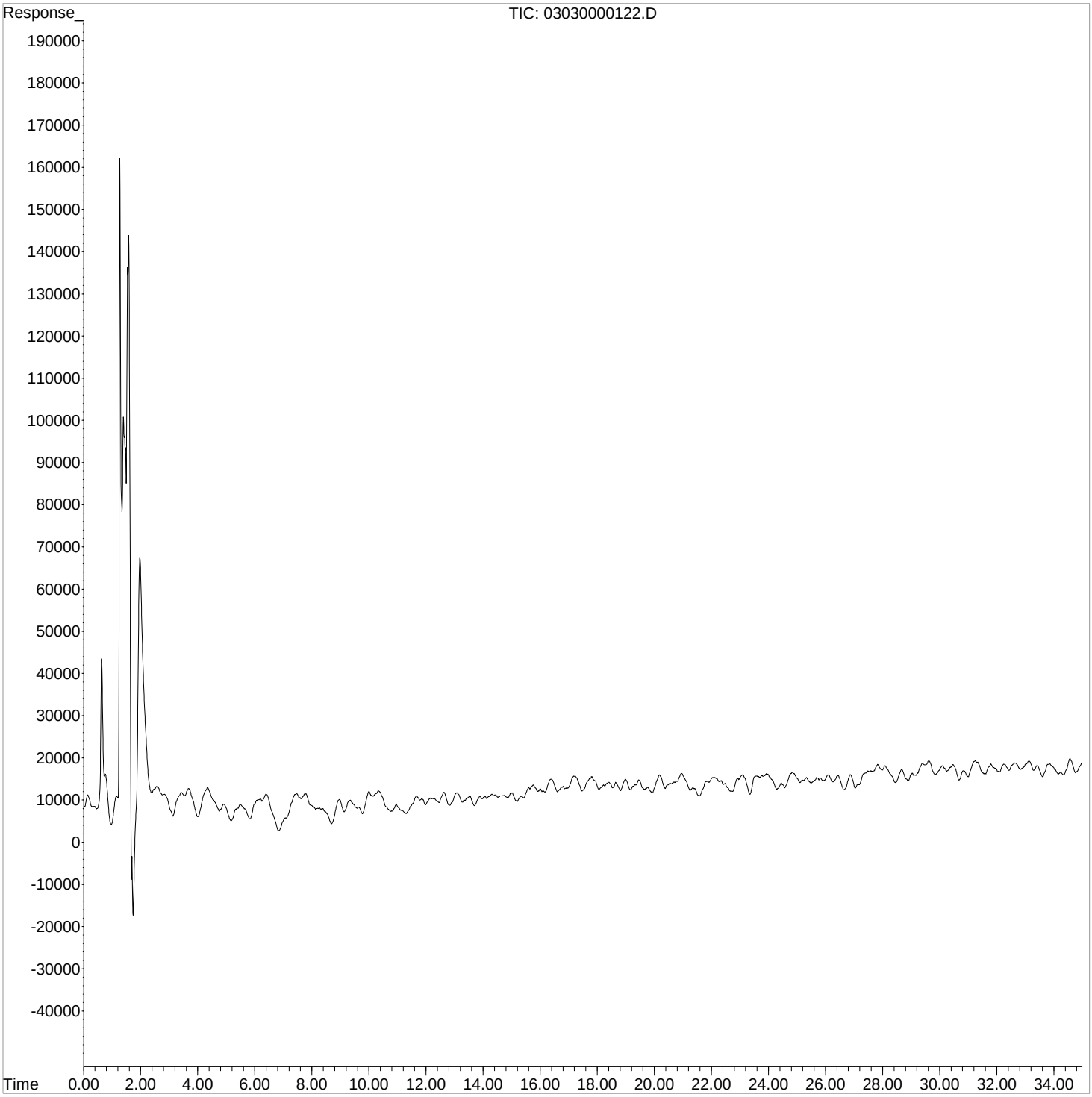
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\030317_8330_254\03030000122.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 04:23:01 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 15:35:46 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



Exception Report

Data File: J:\LC08\DATA\030317_8330_254\03030000128.
Lab ID: KWG1701981-4
RunType: IB
Matrix: NOT APPLICABLE

Date Acquired: 03/04/2017 08:04
Date Quantitated: 03/10/2017 15:39
Batch ID: KWG1701981
Analysis Method: 8330B
MethodJoinID: MJ1277

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC08\DATA\030317_8330_254\03030000128.D			**Instrument:**	LC08
Acqu Date:	03/04/2017 08:04	**Quant Date:**	03/10/2017 15:39	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1432	**Dilution:**	1.0
Lab ID:	KWG1701981-4			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	NOT APPLICABLE
Prod Code:	8330B FIRE RANG	**Collect Date:**		**Receive Date:**	03/10/2017

Analysis Lot:	KWG1701981	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC08\METHOD\020917_SHORT	**Calibration ID:**	CAL15192
Title:			
		Method ID:	MJ1432
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
HMX			0				
RDX			0				
Nitrobenzene			0				
3,5-Dinitroaniline			0**d**				
4-Amino-2,6-dinitrotoluene			0**d**				
2-Nitrotoluene			0**d**				
2-Amino-4,6-dinitrotoluene			0**d**				
3-Nitrotoluene			0**d**				
1,3-Dinitrobenzene			0				
4-Nitrotoluene			0				
2,6-Dinitrotoluene			0**d**				
2,4-Dinitrotoluene			0**d**				
TETRYL			0**d**				
1,3,5-Trinitrobenzene			0**d**				
2,4,6-Trinitrotoluene			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\030317_8330_254\03030000128.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 08:04:18 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 15:39:24 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
11) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	
	Target Compounds					
1) T	HMX	0.000	0	N.D.	ug/L	
2) T	RDX	0.000	0	N.D.	ug/L	
3) T	Nitrobenzene	0.000	0	N.D.	ug/L	
4) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L	d
5) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L	d
6) T	2-NT	0.000	0	N.D.	ug/L	d
7) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L	d
8) T	3-NT	0.000	0	N.D.	ug/L	d
9) T	1,3-DNB	0.000	0	N.D.	ug/L	
10) T	4-NT	0.000	0	N.D.	ug/L	
12) T	2,6-DNT	0.000	0	N.D.	ug/L	d
13) T	2,4-DNT	0.000	0	N.D.	ug/L	d
14) T	Tetryl	0.000	0	N.D.	ug/L	d
15) T	1,3,5-TNB	0.000	0	N.D.	ug/L	d
16) T	2,4,6-TNT	0.000	0	N.D.	ug/L	d

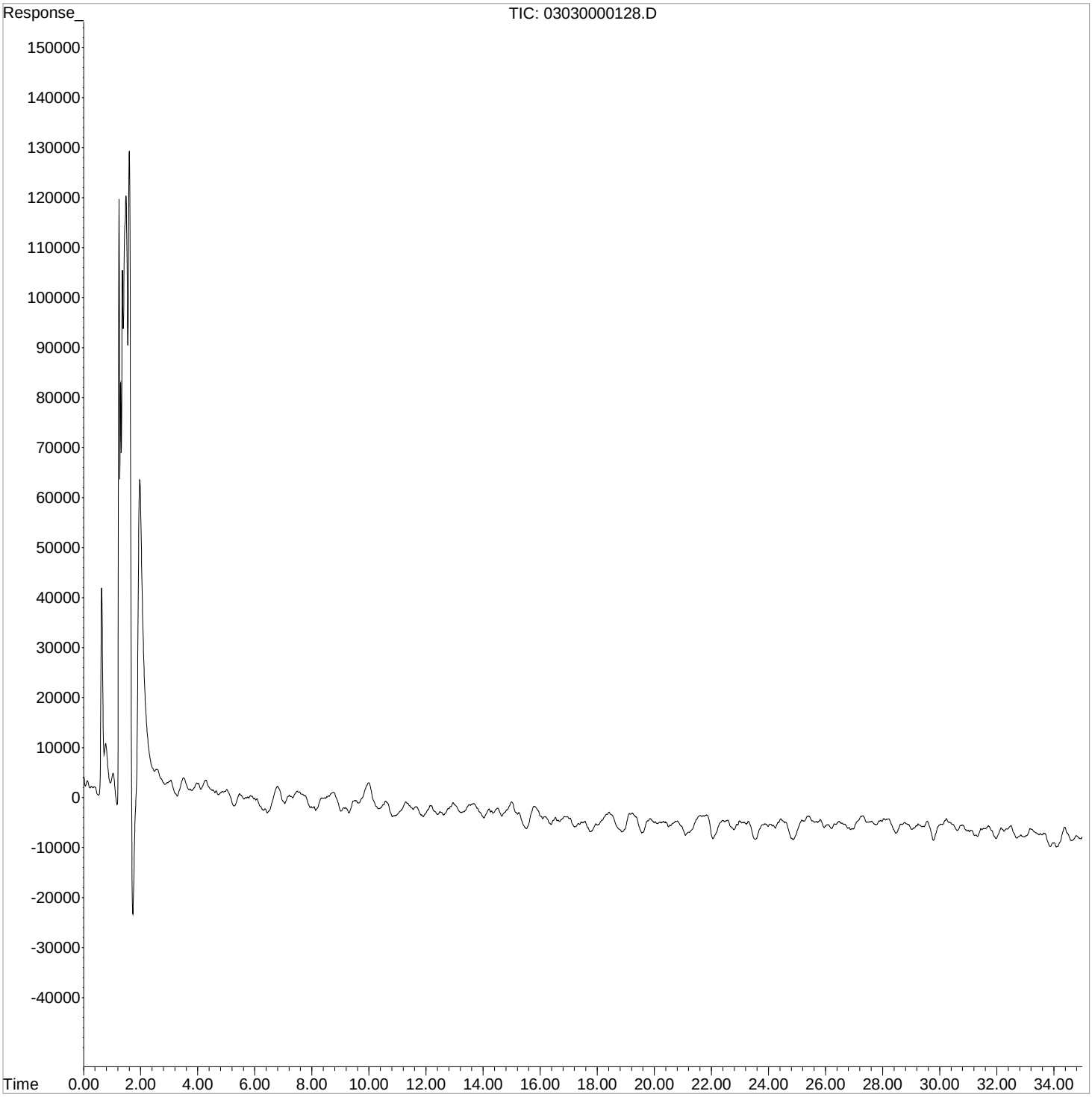
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\030317_8330_254\03030000128.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 04-Mar-2017, 08:04:18 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 10 15:39:24 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Fri Mar 10 15:28:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



Exception Report

Data File: J:\LC08\DATA\030317_8330_210\03030000122.
Lab ID: KWG1702121-3
RunType: IB
Matrix: SOIL

Date Acquired: 03/04/2017 04:23
Date Quantitated: 03/17/2017 09:07
Batch ID: KWG1702121
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC08\DATA\030317_8330_210\03030000122.D			**Instrument:**	LC08
Acqu Date:	03/04/2017 04:23	**Quant Date:**	03/17/2017 09:07	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1702121-3			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B NITRARO/A	**Collect Date:**		**Receive Date:**	03/16/2017

Analysis Lot:	KWG1702121	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC08\METHOD\020917_SHORT	**Calibration ID:**	CAL15185
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC08\DATA\030317_8330_210\03030000122.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 04-Mar-2017, 04:23:01 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 17 09:07:15 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Mar 17 09:04:05 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
Target Compounds					
1) T	Nitroglycerin	0.000	0	N.D.	ug/L
2) T	PETN	0.000	0	N.D.	ug/L d

(f)=RT Delta > 1/2 Window (m)=manual int.

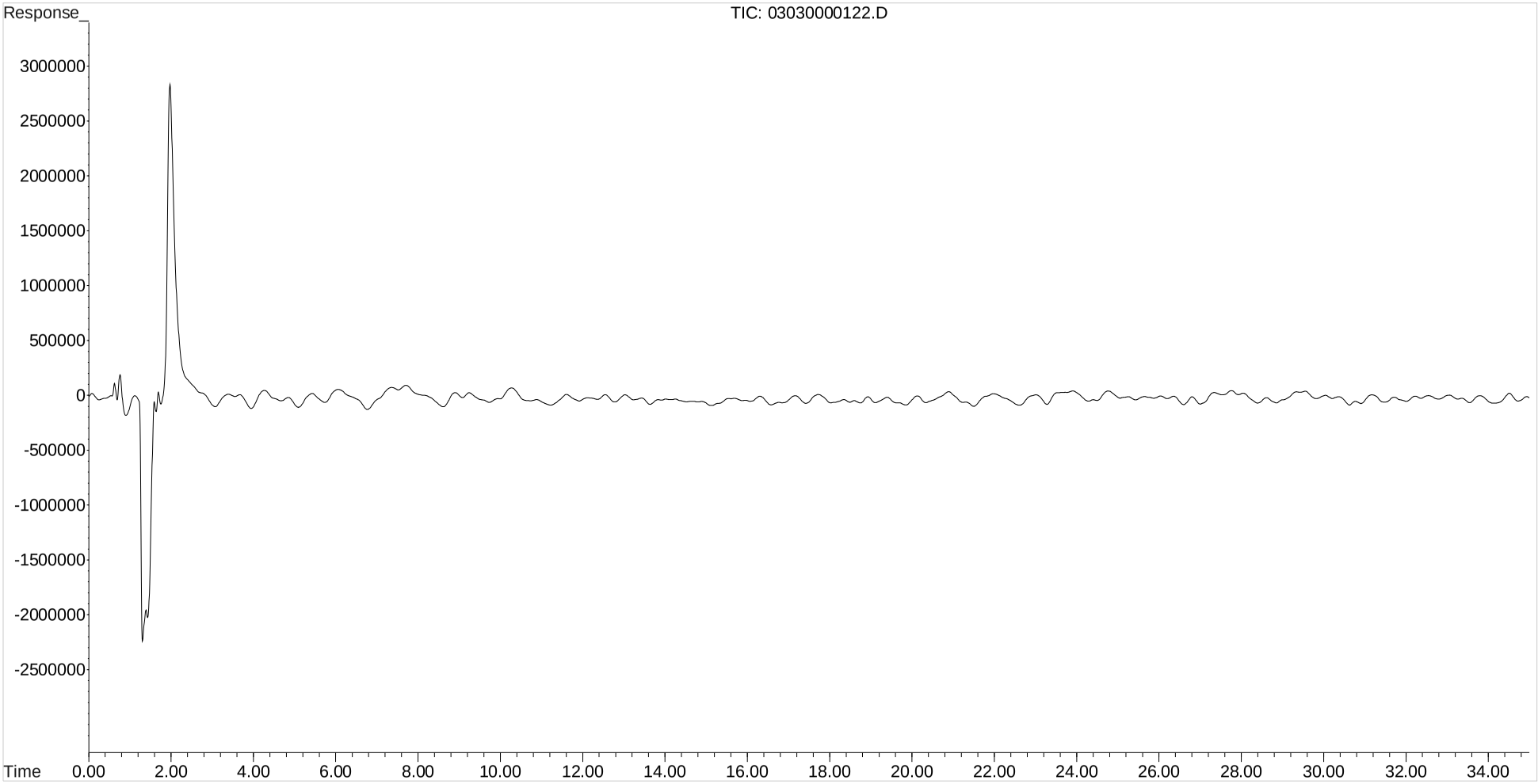
[redacted] /17/17
(9) (g) /29/17

Quantitation Report (QT Reviewed)

Data File : J:\LC08\DATA\030317_8330_210\03030000122.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 04-Mar-2017, 04:23:01 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 17 09:07:15 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Mar 17 09:04:05 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



Exception Report

Data File: J:\LC08\DATA\030317_8330_210\03030000122.
Lab ID: KWG1702121-3
RunType: IB
Matrix: SOIL

Date Acquired: 03/04/2017 04:23
Date Quantitated: 03/17/2017 09:07
Batch ID: KWG1702121
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC08\DATA\030317_8330_210\03030000122.D			**Instrument:**	LC08
Acqu Date:	03/04/2017 04:23	**Quant Date:**	03/17/2017 09:07	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1702121-3			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B NITRARO/A	**Collect Date:**		**Receive Date:**	03/16/2017

Analysis Lot:	KWG1702121	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC08\METHOD\020917_SHORT	**Calibration ID:**	CAL15185
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC08\DATA\030317_8330_210\03030000122.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 04-Mar-2017, 04:23:01 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 17 09:07:15 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Mar 17 09:04:05 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
	Target Compounds				
1) T	Nitroglycerin	0.000	0	N.D.	ug/L
2) T	PETN	0.000	0	N.D.	ug/L d

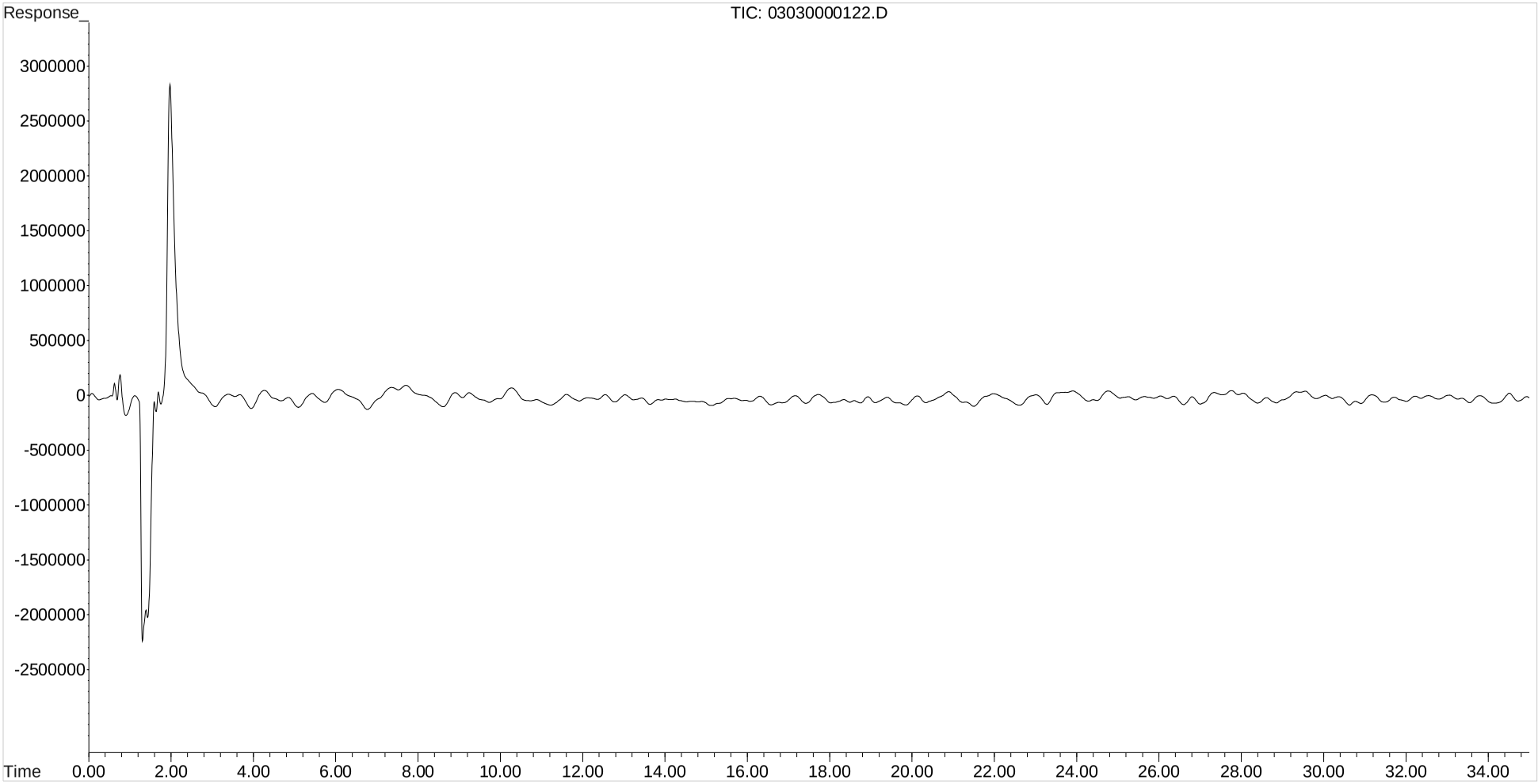
(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] /17/17
/29/17

Data File : J:\LC08\DATA\030317_8330_210\03030000122.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 04-Mar-2017, 04:23:01 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 17 09:07:15 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Mar 17 09:04:05 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



Exception Report

Data File: J:\LC08\DATA\030317_8330_210\03030000122.
Lab ID: KWG1702121-3
RunType: IB
Matrix: SOIL

Date Acquired: 03/04/2017 04:23
Date Quantitated: 03/17/2017 09:07
Batch ID: KWG1702121
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC08\DATA\030317_8330_210\03030000122.D			**Instrument:**	LC08
Acqu Date:	03/04/2017 04:23	**Quant Date:**	03/17/2017 09:07	**Vial:**	1
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1702121-3			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B NITRARO/A	**Collect Date:**		**Receive Date:**	03/16/2017

Analysis Lot:	KWG1702121	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC08\METHOD\020917_SHORT	**Calibration ID:**	CAL15185
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC08\DATA\030317_8330_210\03030000122.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 04-Mar-2017, 04:23:01 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 17 09:07:15 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Mar 17 09:04:05 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
	Target Compounds				
1) T	Nitroglycerin	0.000	0	N.D.	ug/L
2) T	PETN	0.000	0	N.D.	ug/L d

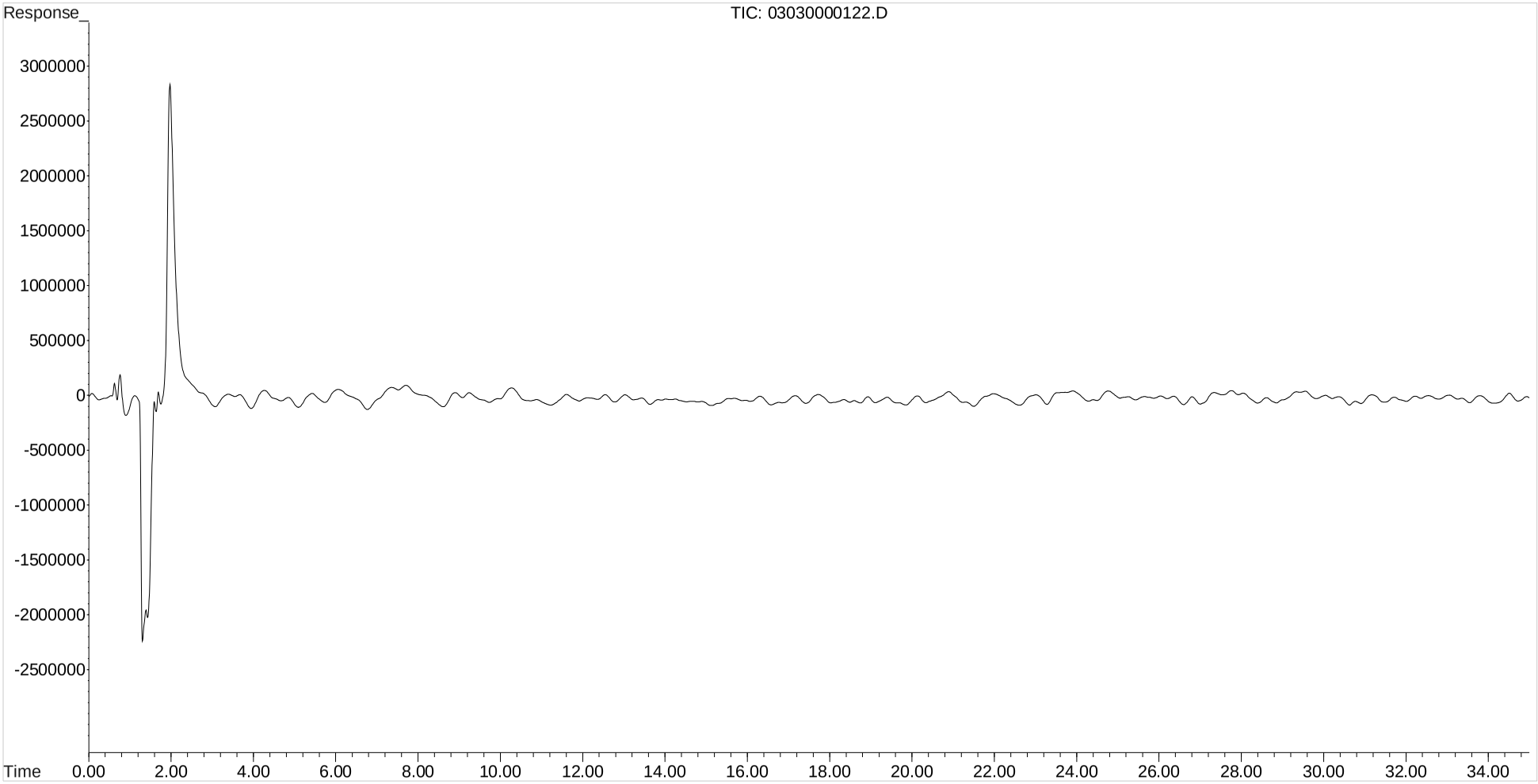
(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] 3/17/17
(9) (9) 3/29/17

Data File : J:\LC08\DATA\030317_8330_210\03030000122.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 04-Mar-2017, 04:23:01 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 17 09:07:15 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Mar 17 09:04:05 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



11/01/2018

013217

Exception Report

Data File: J:\LC08\DATA\030317_8330_210\03030000128.
Lab ID: KWG1702121-4
RunType: IB
Matrix: SOIL

Date Acquired: 03/04/2017 08:04
Date Quantitated: 03/17/2017 09:09
Batch ID: KWG1702121
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC08\DATA\030317_8330_210\03030000128.D			**Instrument:**	LC08
Acqu Date:	03/04/2017 08:04	**Quant Date:**	03/17/2017 09:09	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1702121-4			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B NITRARO/A	**Collect Date:**		**Receive Date:**	03/17/2017

Analysis Lot:	KWG1702121	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC08\METHOD\020917_SHORT	**Calibration ID:**	CAL15185
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC08\DATA\030317_8330_210\03030000128.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 04-Mar-2017, 08:04:18 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 17 09:09:14 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Mar 17 09:04:05 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
Target Compounds					
1) T	Nitroglycerin	0.000	0	N.D.	ug/L d
2) T	PETN	0.000	0	N.D.	ug/L d

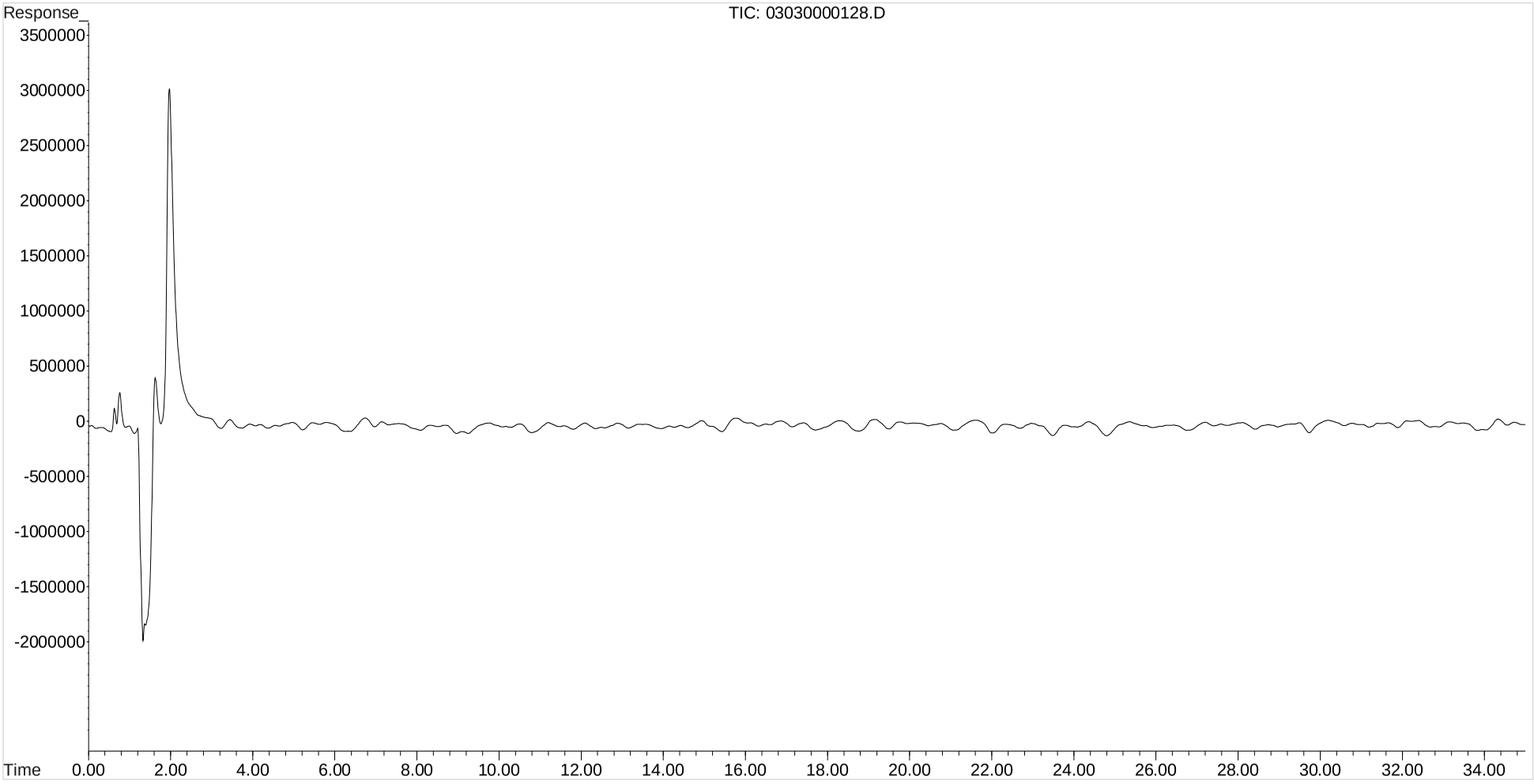
(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6) 7/17
9/17

Data File : J:\LC08\DATA\030317_8330_210\03030000128.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 04-Mar-2017, 08:04:18 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 17 09:09:14 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Mar 17 09:04:05 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



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013221

Exception Report

Data File: J:\LC08\DATA\030317_8330_210\03030000128.
Lab ID: KWG1702121-4
RunType: IB
Matrix: SOIL

Date Acquired: 03/04/2017 08:04
Date Quantitated: 03/17/2017 09:09
Batch ID: KWG1702121
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC08\DATA\030317_8330_210\03030000128.D			**Instrument:**	LC08
Acqu Date:	03/04/2017 08:04	**Quant Date:**	03/17/2017 09:09	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1702121-4			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B NITRARO/A	**Collect Date:**		**Receive Date:**	03/17/2017

Analysis Lot:	KWG1702121	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC08\METHOD\020917_SHORT	**Calibration ID:**	CAL15185
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC08\DATA\030317_8330_210\03030000128.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 04-Mar-2017, 08:04:18 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 17 09:09:14 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Mar 17 09:04:05 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
Target Compounds					
1) T	Nitroglycerin	0.000	0	N.D.	ug/L d
2) T	PETN	0.000	0	N.D.	ug/L d

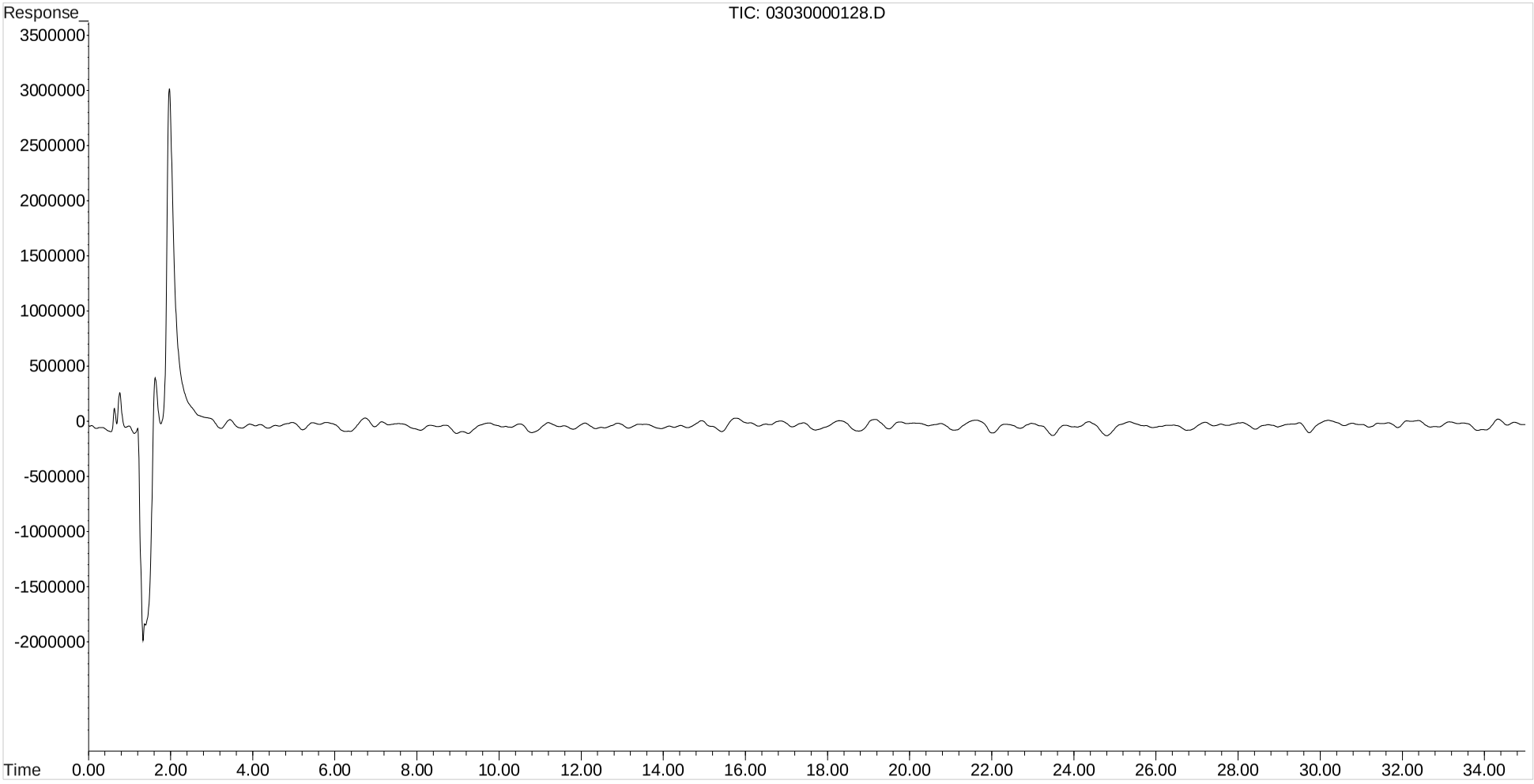
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\DATA\030317_8330_210\03030000128.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 04-Mar-2017, 08:04:18 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 17 09:09:14 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Mar 17 09:04:05 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



Exception Report

Data File: J:\LC08\DATA\030317_8330_210\03030000128.
Lab ID: KWG1702121-4
RunType: IB
Matrix: SOIL

Date Acquired: 03/04/2017 08:04
Date Quantitated: 03/17/2017 09:09
Batch ID: KWG1702121
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC08\DATA\030317_8330_210\03030000128.D			**Instrument:**	LC08
Acqu Date:	03/04/2017 08:04	**Quant Date:**	03/17/2017 09:09	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1702121-4			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B NITRARO/A	**Collect Date:**		**Receive Date:**	03/17/2017

Analysis Lot:	KWG1702121	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC08\METHOD\020917_SHORT	**Calibration ID:**	CAL15185
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

(b) (6)

03/17/17

03/29/17

Quantitation Report (QT Reviewed)

Data File : J:\LC08\DATA\030317_8330_210\03030000128.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 04-Mar-2017, 08:04:18 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 17 09:09:14 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Mar 17 09:04:05 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
Target Compounds					
1) T	Nitroglycerin	0.000	0	N.D.	ug/L d
2) T	PETN	0.000	0	N.D.	ug/L d

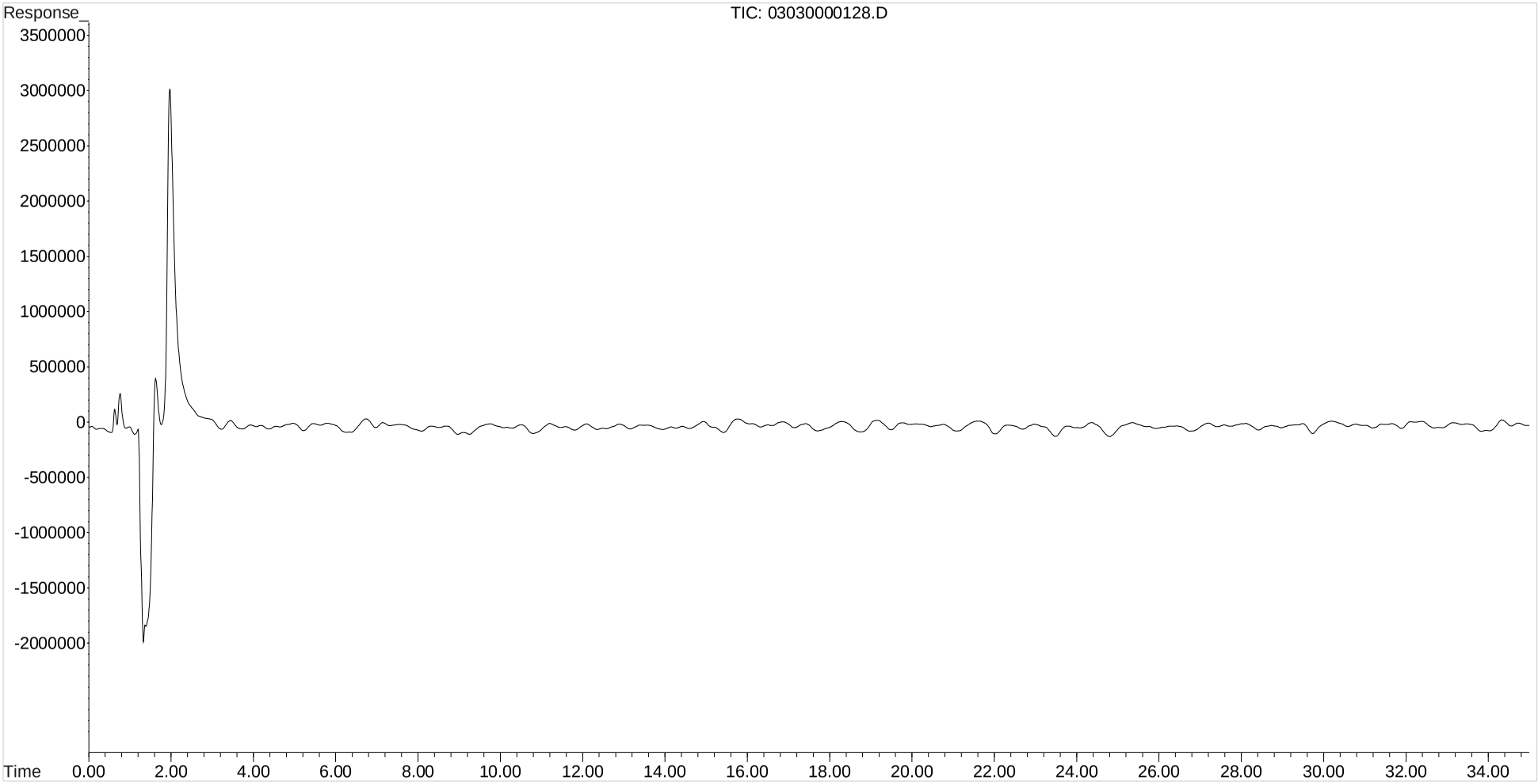
(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] 17/17
29/17

Data File : J:\LC08\DATA\030317_8330_210\03030000128.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 04-Mar-2017, 08:04:18 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 17 09:09:14 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Mar 17 09:04:05 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



Exception Report

Data File: J:\LC08\DATA\030317_8330_210\03030000135.
Lab ID: KWG1702121-7
RunType: IB
Matrix: SOIL

Date Acquired: 03/04/2017 12:22
Date Quantitated: 03/17/2017 09:03
Batch ID: KWG1702121
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC08\DATA\030317_8330_210\03030000135.D			**Instrument:**	LC08
Acqu Date:	03/04/2017 12:22	**Quant Date:**	03/17/2017 09:03	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1702121-7			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B NITRARO/A	**Collect Date:**		**Receive Date:**	03/17/2017

Analysis Lot:	KWG1702121	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC08\METHOD\020917_SHORT	**Calibration ID:**	CAL15185
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	8.57		896258	12.88		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0				
Pentaerythritol Tetranitrate			0				NR

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (Not Reviewed)

Data File : J:\LC08\DATA\030317_8330_210\03030000135.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 04-Mar-2017, 12:22:18 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 17 09:03:35 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Mar 17 09:02:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
3) S	1-Chloro-3-Nitrobenzene	8.567f	896258	12.884	ug/L
Target Compounds					
1) T	Nitroglycerin	0.000	0	N.D.	ug/L
2) T	PETN	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] (b) (6)

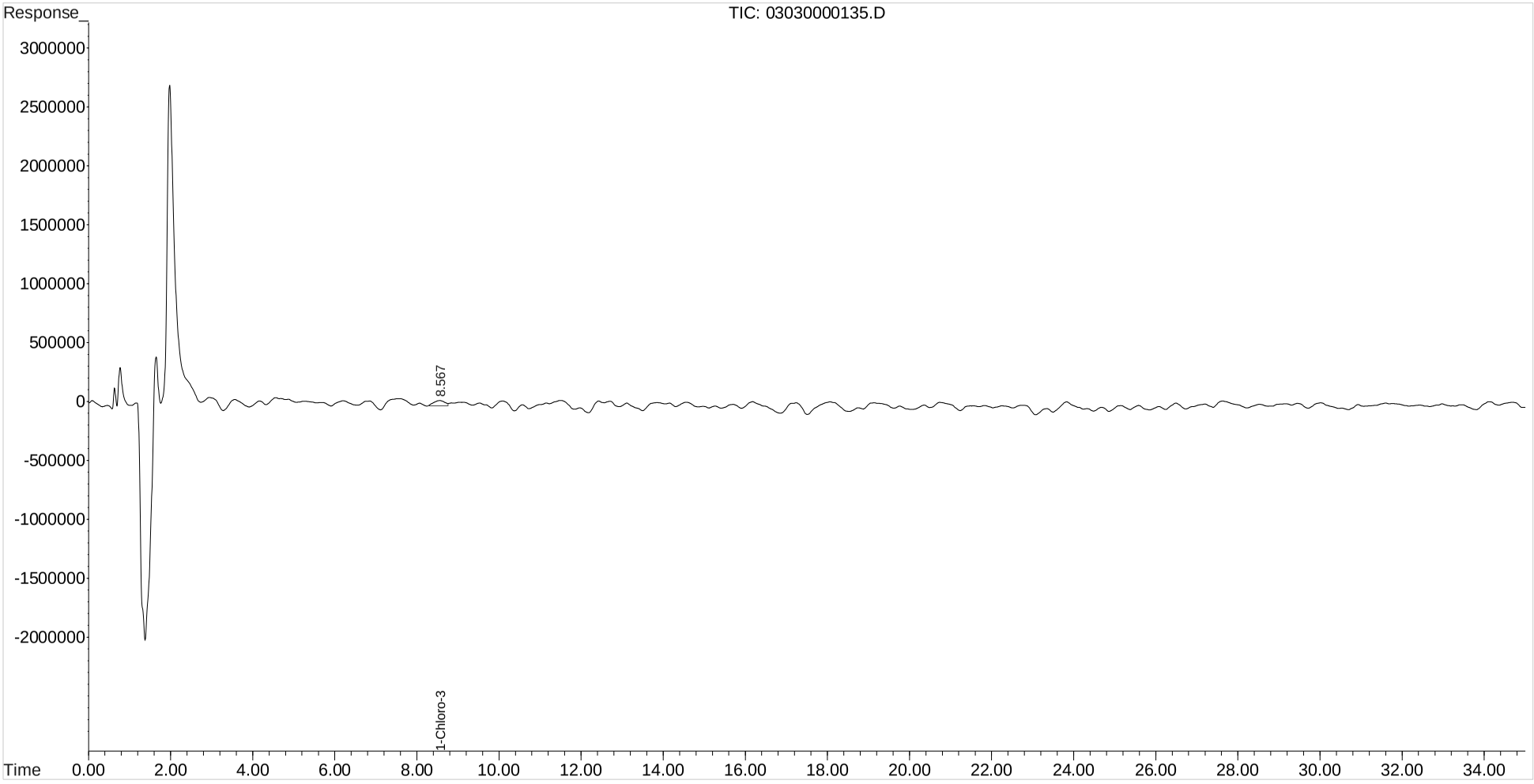
3/16/17
3/29/17

Data File : J:\LC08\DATA\030317_8330_210\03030000135.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 04-Mar-2017, 12:22:18 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 17 09:03:35 2017
Quant Results File: 020917_Short_8330B@210.RES

11/01/2018

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Mar 17 09:02:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



013233

Exception Report

Data File: J:\LC08\DATA\030317_8330_210\03030000135.
Lab ID: KWG1702121-7
RunType: IB
Matrix: SOIL

Date Acquired: 03/04/2017 12:22
Date Quantitated: 03/17/2017 09:03
Batch ID: KWG1702121
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC08\DATA\030317_8330_210\03030000135.D			**Instrument:**	LC08
Acqu Date:	03/04/2017 12:22	**Quant Date:**	03/17/2017 09:03	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1702121-7			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B NITRARO/A	**Collect Date:**		**Receive Date:**	03/17/2017

Analysis Lot:	KWG1702121	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC08\METHOD\020917_SHORT	**Calibration ID:**	CAL15185
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	8.57		896258	12.88		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0				
Pentaerythritol Tetranitrate			0				NR

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (Not Reviewed)

Data File : J:\LC08\DATA\030317_8330_210\03030000135.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 04-Mar-2017, 12:22:18 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 17 09:03:35 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Mar 17 09:02:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	8.567f	896258	12.884	ug/L
	Target Compounds				
1) T	Nitroglycerin	0.000	0	N.D.	ug/L
2) T	PETN	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

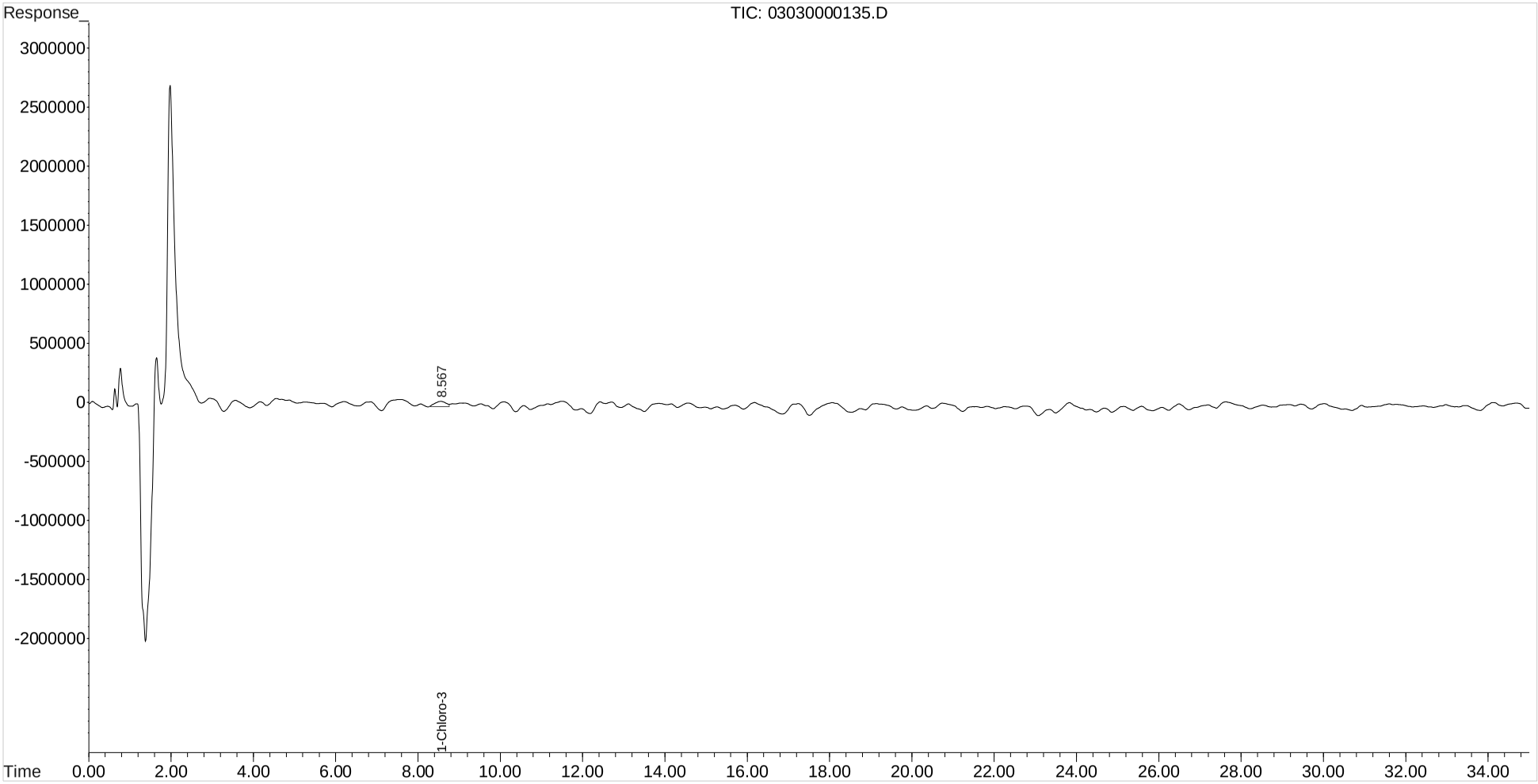
Quantitation Report (Not Reviewed)

[redacted] 03/16/17
03/29/17

Data File : J:\LC08\DATA\030317_8330_210\03030000135.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 04-Mar-2017, 12:22:18 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 17 09:03:35 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Mar 17 09:02:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



Exception Report

Data File: J:\LC08\DATA\030317_8330_210\03030000135.
Lab ID: KWG1702121-7
RunType: IB
Matrix: SOIL

Date Acquired: 03/04/2017 12:22
Date Quantitated: 03/17/2017 09:03
Batch ID: KWG1702121
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC08\DATA\030317_8330_210\03030000135.D			**Instrument:**	LC08
Acqu Date:	03/04/2017 12:22	**Quant Date:**	03/17/2017 09:03	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1702121-7			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B NITRARO/A	**Collect Date:**		**Receive Date:**	03/17/2017

Analysis Lot:	KWG1702121	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC08\METHOD\020917_SHORT	**Calibration ID:**	CAL15185
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene	8.57		896258	12.88		34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0				
Pentaerythritol Tetranitrate			0				NR

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (Not Reviewed)

Data File : J:\LC08\DATA\030317_8330_210\03030000135.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 04-Mar-2017, 12:22:18 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 17 09:03:35 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Mar 17 09:02:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
3) S	1-Chloro-3-Nitrobenzene	8.567f	896258	12.884	ug/L
Target Compounds					
1) T	Nitroglycerin	0.000	0	N.D.	ug/L
2) T	PETN	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

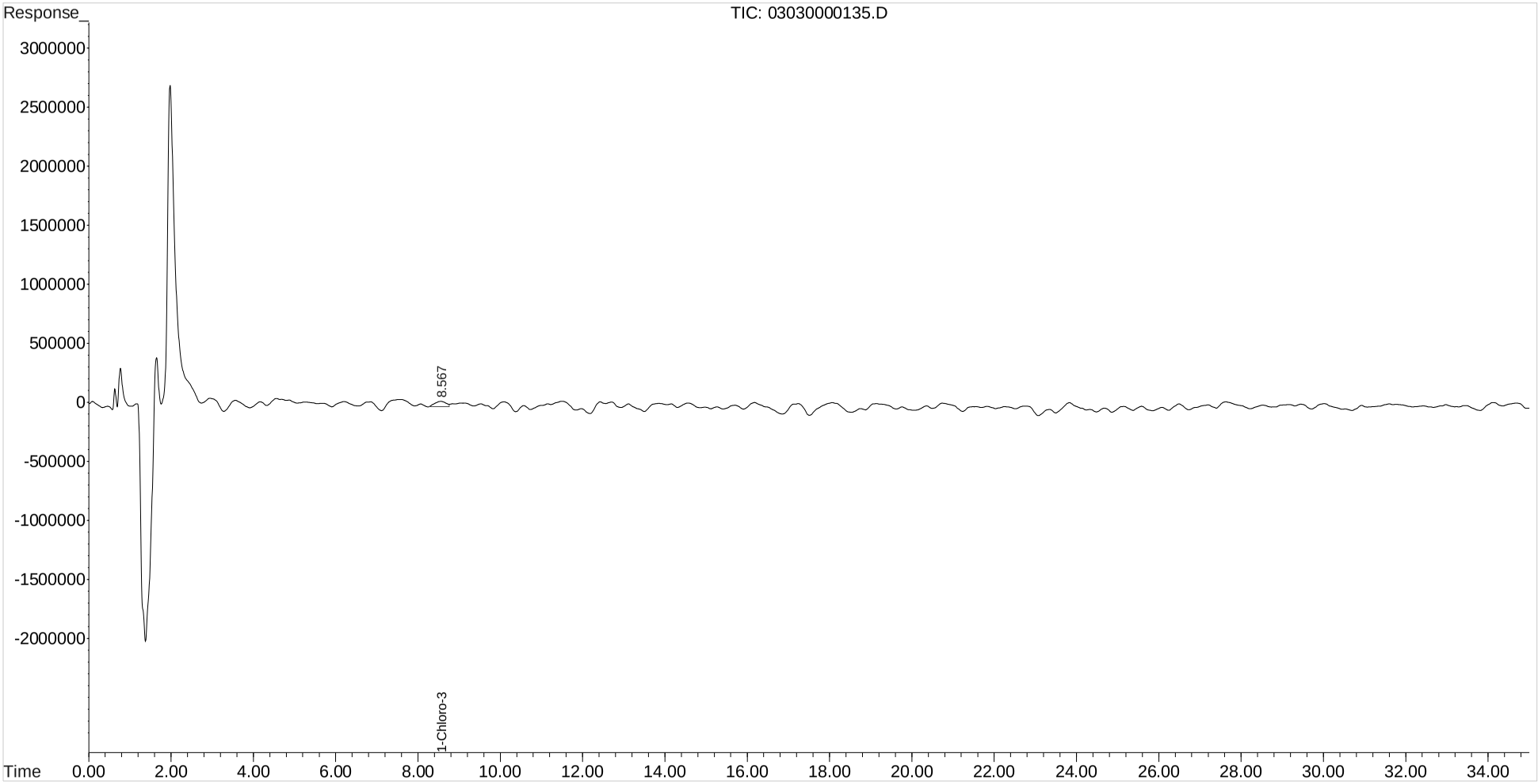
[redacted] (6)(b) 03/16/17
03/29/17

Data File : J:\LC08\DATA\030317_8330_210\03030000135.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 04-Mar-2017, 12:22:18 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 17 09:03:35 2017
Quant Results File: 020917_Short_8330B@210.RES

11/01/2018

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Mar 17 09:02:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



013241

Exception Report

Data File: J:\LC08\DATA\030317_8330_210\03030000146.
Lab ID: KWG1702121-8
RunType: IB
Matrix: SOIL

Date Acquired: 03/04/2017 19:07
Date Quantitated: 03/17/2017 09:11
Batch ID: KWG1702121
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC08\DATA\030317_8330_210\03030000146.D			**Instrument:**	LC08
Acqu Date:	03/04/2017 19:07	**Quant Date:**	03/17/2017 09:11	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1702121-8			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B NITRARO/A	**Collect Date:**		**Receive Date:**	03/17/2017

Analysis Lot:	KWG1702121	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC08\METHOD\020917_SHORT	**Calibration ID:**	CAL15185
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC08\DATA\030317_8330_210\03030000146.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 04-Mar-2017, 19:07:45 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 17 09:11:11 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Mar 17 09:02:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
Target Compounds					
1) T	Nitroglycerin	0.000	0	N.D.	ug/L d
2) T	PETN	0.000	0	N.D.	ug/L d

(f)=RT Delta > 1/2 Window (m)=manual int.

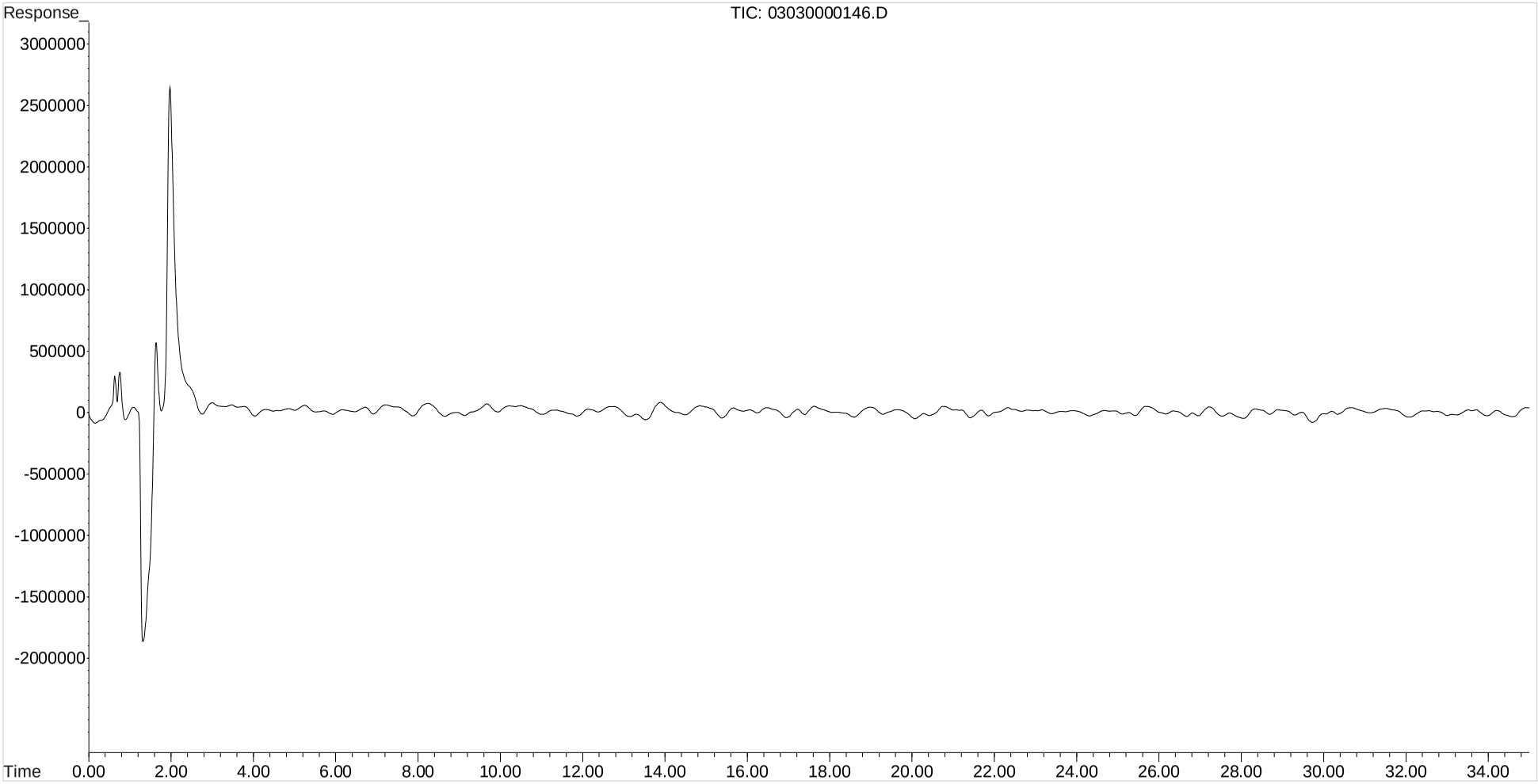
[redacted] (9) (g) 03/16/17
03/29/17

Quantitation Report (QT Reviewed)

Data File : J:\LC08\DATA\030317_8330_210\03030000146.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 04-Mar-2017, 19:07:45 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 17 09:11:11 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Mar 17 09:02:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



Exception Report

Data File: J:\LC08\DATA\030317_8330_210\03030000146.
Lab ID: KWG1702121-8
RunType: IB
Matrix: SOIL

Date Acquired: 03/04/2017 19:07
Date Quantitated: 03/17/2017 09:11
Batch ID: KWG1702121
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC08\DATA\030317_8330_210\03030000146.D			**Instrument:**	LC08
Acqu Date:	03/04/2017 19:07	**Quant Date:**	03/17/2017 09:11	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1702121-8			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B NITRARO/A	**Collect Date:**		**Receive Date:**	03/17/2017

Analysis Lot:	KWG1702121	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC08\METHOD\020917_SHORT	**Calibration ID:**	CAL15185
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC08\DATA\030317_8330_210\03030000146.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 04-Mar-2017, 19:07:45 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 17 09:11:11 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Mar 17 09:02:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
Target Compounds					
1) T	Nitroglycerin	0.000	0	N.D.	ug/L d
2) T	PETN	0.000	0	N.D.	ug/L d

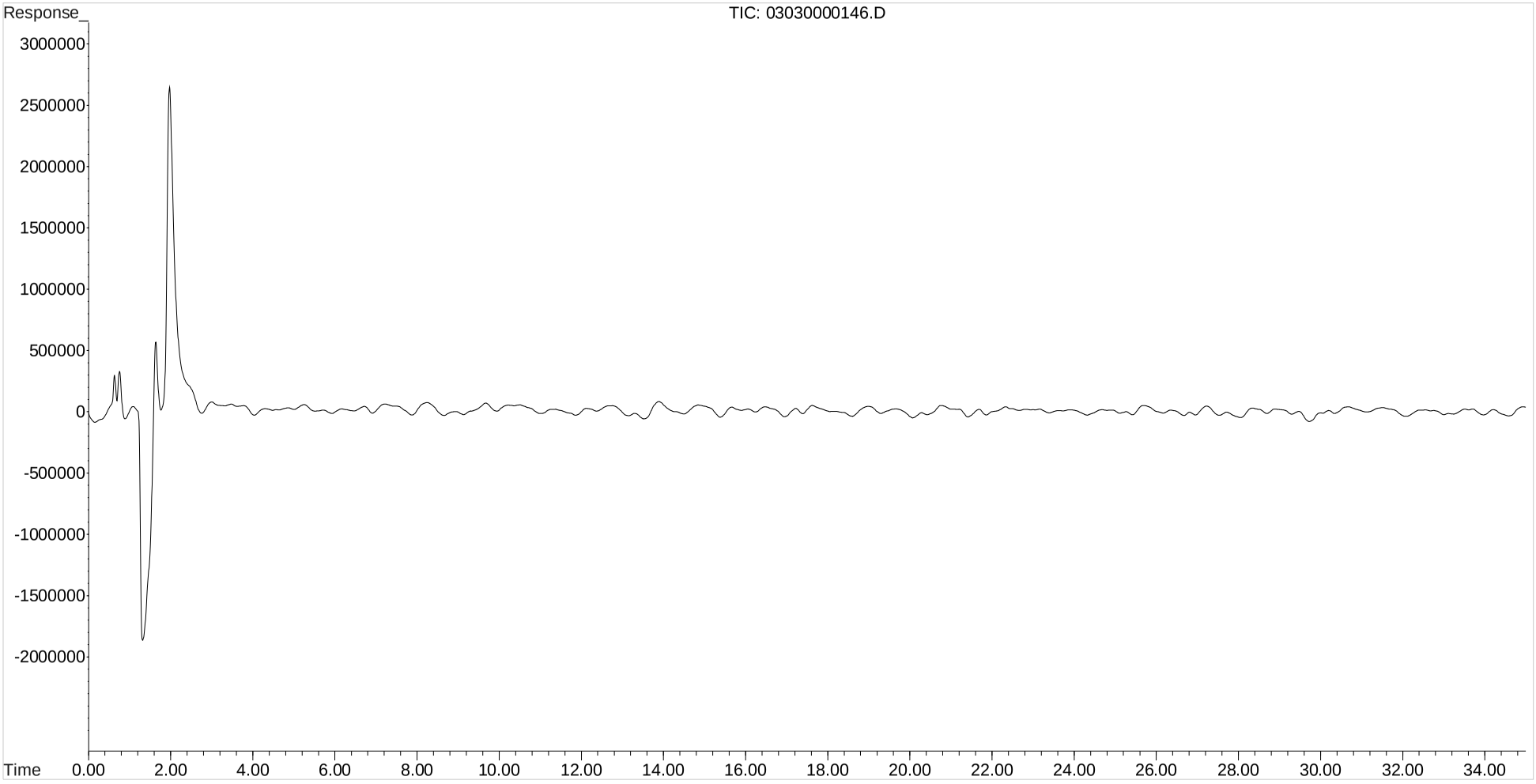
(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] 3/16/17
(b)(6) 3/29/17

Data File : J:\LC08\DATA\030317_8330_210\03030000146.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 04-Mar-2017, 19:07:45 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 17 09:11:11 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Mar 17 09:02:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



11/01/2018

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013249

Exception Report

Data File: J:\LC08\DATA\030317_8330_210\03030000146.
Lab ID: KWG1702121-8
RunType: IB
Matrix: SOIL

Date Acquired: 03/04/2017 19:07
Date Quantitated: 03/17/2017 09:11
Batch ID: KWG1702121
Analysis Method: 8330B
MethodJoinID: MJ1001

Sample Exceptions

Exception Categories	Result	Low Limit	High Limit	Pass	Fail
ICAL Analyte Recovery	NA	NA	NA	x	
Second Source ICAL Verification	NA	NA	NA	x	
Analyte Co-elution	NA	NA	NA	x	
Below Lowest ICAL Level	NA	NA	NA	x	
Above Highest ICAL Level	NA	NA	NA	x	
Enviroquant/Stealth Calibration Check	NA	NA	NA	x	

Primary Review: _____

Secondary Review: _____

Quantitation Report

Data File:	J:\LC08\DATA\030317_8330_210\03030000146.D			**Instrument:**	LC08
Acqu Date:	03/04/2017 19:07	**Quant Date:**	03/17/2017 09:11	**Vial:**	2
Run Type:	IB	**MethodJoinID:**	MJ1001	**Dilution:**	1.0
Lab ID:	KWG1702121-8			**Soln Conc. Units:**	ug/L

Bottle ID:		**Tier:**		**Matrix:**	SOIL
Prod Code:	8330B NITRARO/A	**Collect Date:**		**Receive Date:**	03/17/2017

Analysis Lot:	KWG1702121	**Prep Lot:**		**Report Group:**	
Analysis Method:	8330B	**Prep Method:**			
Prep Ref:		**Prep Date:**			

Quant Method:	J:\LC08\METHOD\020917_SHORT	**Calibration ID:**	CAL15185
Title:			
		Method ID:	MJ1001
MB Ref:		**Quant based on Method**	

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	%Rec	%Rec Limits		Rpt?
1-Chloro-3-nitrobenzene			0			34-135	NA	

Target Compounds

Final Conc. Units:

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Nitroglycerin			0**d**				
Pentaerythritol Tetranitrate			0**d**				

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Quantitation Report (QT Reviewed)

Data File : J:\LC08\DATA\030317_8330_210\03030000146.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 04-Mar-2017, 19:07:45 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 17 09:11:11 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Mar 17 09:02:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	
Target Compounds						
1) T	Nitroglycerin	0.000	0	N.D.	ug/L	d
2) T	PETN	0.000	0	N.D.	ug/L	d

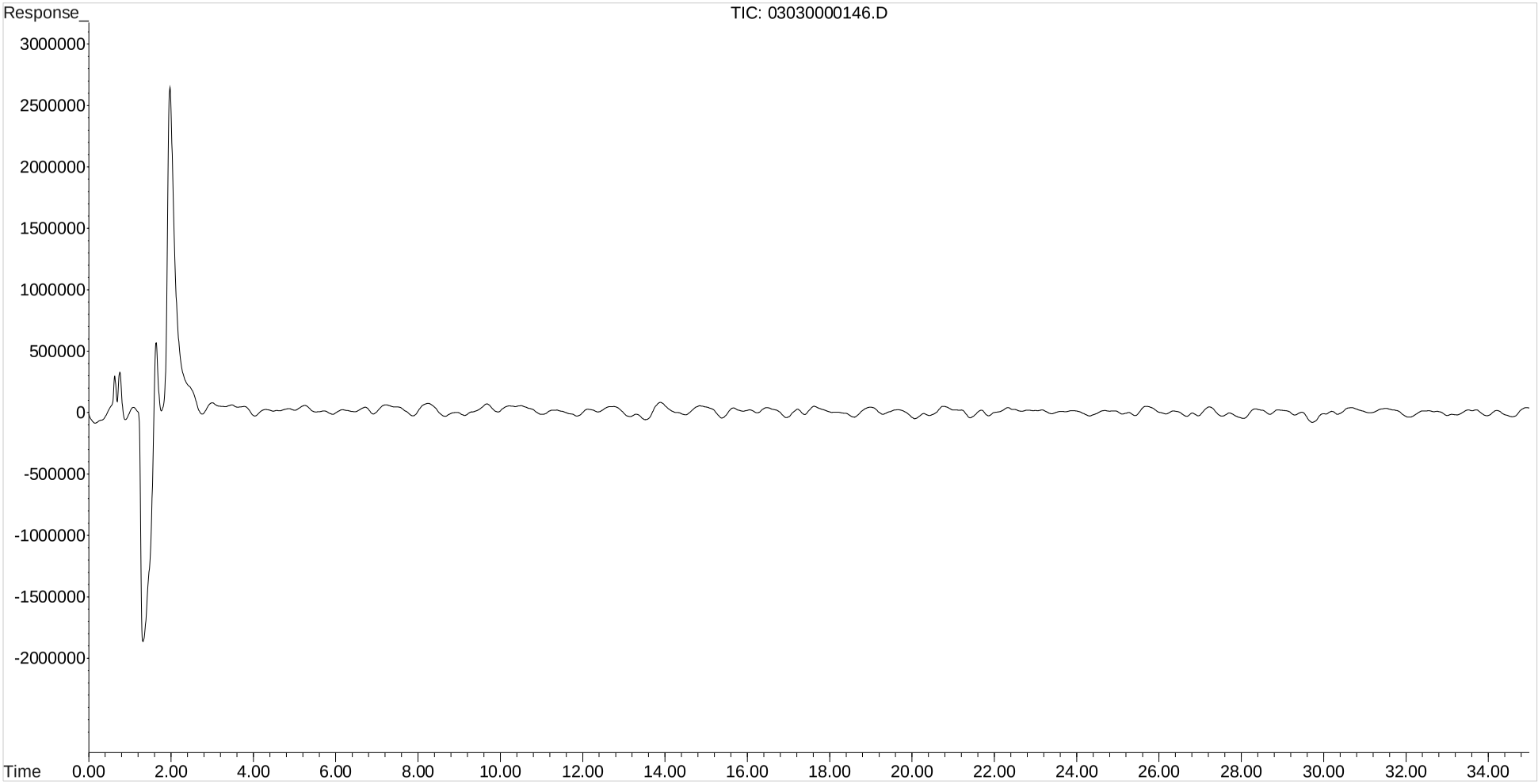
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\DATA\030317_8330_210\03030000146.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 04-Mar-2017, 19:07:45 Operator: BR
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Mar 17 09:11:11 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Mar 17 09:02:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



Date: 12/7/2016 **ALS Kelso, WA** **ICAL Date:** 12/7/2016

By: AE **Injection Log** **ICAL ID:** (254)-15062 (210)-15063

Stealth ID: n/a **LC10 - Agilent 1260** **LIMS ID:** n/a

2nd Review: (b) (6)

Column: Phen. Synergi Hydro-RP 80A 250x4.6 mm SN 759076-19

Mobile Phases A: MeOH Lot#: 56175 **B:** ACN Lot#: 56165 **C:** H_2O Lot#: 56006 **D:**

	Sample Name	File Name	Method	Dilution	R	Comments
1		12070000101	8330BX+DIAMINOS.M	NA		
2		12070000102	8330BX+DIAMINOS.M	NA		
3		1207000202	8330BX+DIAMINOS.M	NA		
4		1207000203	8330BX+DIAMINOS.M	NA		
5		1207000204	8330BX+DIAMINOS.M	NA		
6		1207000205	8330BX+DIAMINOS.M	NA		
7		1207000206	8330BX+DIAMINOS.M	NA		
8		1207000207	8330BX+DIAMINOS.M	NA		
9		1207000303	8330BX+DIAMINOS.M	NA		
10		1207000404	8330BX+DIAMINOS.M	NA		
11		1207000405	8330BX+DIAMINOS.M	NA		
12		1207000505	8330BX+DIAMINOS.M	NA		
13		1207000601	8330BX+DIAMINOS.M	NA		
14		1207000602	8330BX+DIAMINOS.M	NA		
15		1207000603	8330BX+DIAMINOS.M	NA		
16		1207000701	8330BX+DIAMINOS.M	NA		
17		1207000702	8330BX+DIAMINOS.M	NA		
18	IB	1207000703	8330BX+DIAMINOS.M	NA	X	
19	16-OLC-01-89J 20 PPB	1207000704	8330BX+DIAMINOS.M	NA	X	
20	16-OLC-01-89I 50 PPB	1207000705	8330BX+DIAMINOS.M	NA	X	
21	16-OLC-01-89H 100 PPB	1207000706	8330BX+DIAMINOS.M	NA	X	
22	16-OLC-01-89G 200 PPB	1207000707	8330BX+DIAMINOS.M	NA	X	
23	16-OLC-01-89F 500 PPB	1207000708	8330BX+DIAMINOS.M	NA	X	
24	16-OLC-01-89E 1000 PPB	1207000709	8330BX+DIAMINOS.M	NA	X	
25	16-OLC-01-89D 2000 PPB	1207000710	8330BX+DIAMINOS.M	NA	X	
26	16-OLC-01-89C 5000 PPB	1207000711	8330BX+DIAMINOS.M	NA	X	
27	16-OLC-01-89B 10000 PPB	1207000712	8330BX+DIAMINOS.M	NA	X	
28	16-OLC-01-89A 20000 PPB	1207000713	8330BX+DIAMINOS.M	NA	X	
29	IB	1207000714	8330BX+DIAMINOS.M	NA	X	
30	16-OLC-01-89K 10000 PPB ICV	1207000715	8330BX+DIAMINOS.M	NA	X	

(Cal not valid for Diaminos)

RM

R:\OLC\Injection Logs\LC10 2016\INJLOG_LC10_xl_120716_ICAL

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000703.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 19:36:44 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:24:49 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:23:13 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	0.000	0	N.D.	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	0.000	0	N.D.	ug/L
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L
6)	T	1,3-DNB	0.000	0	N.D.	ug/L
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8)	T	Tetryl	0.000	0	N.D.	ug/L
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13)	T	2,6-DNT	0.000	0	N.D.	ug/L
14)	T	2,4-DNT	0.000	0	N.D.	ug/L
15)	T	2-NT	0.000	0	N.D.	ug/L
16)	T	4-NT	0.000	0	N.D.	ug/L
17)	T	3-NT	0.000	0	N.D.	ug/L

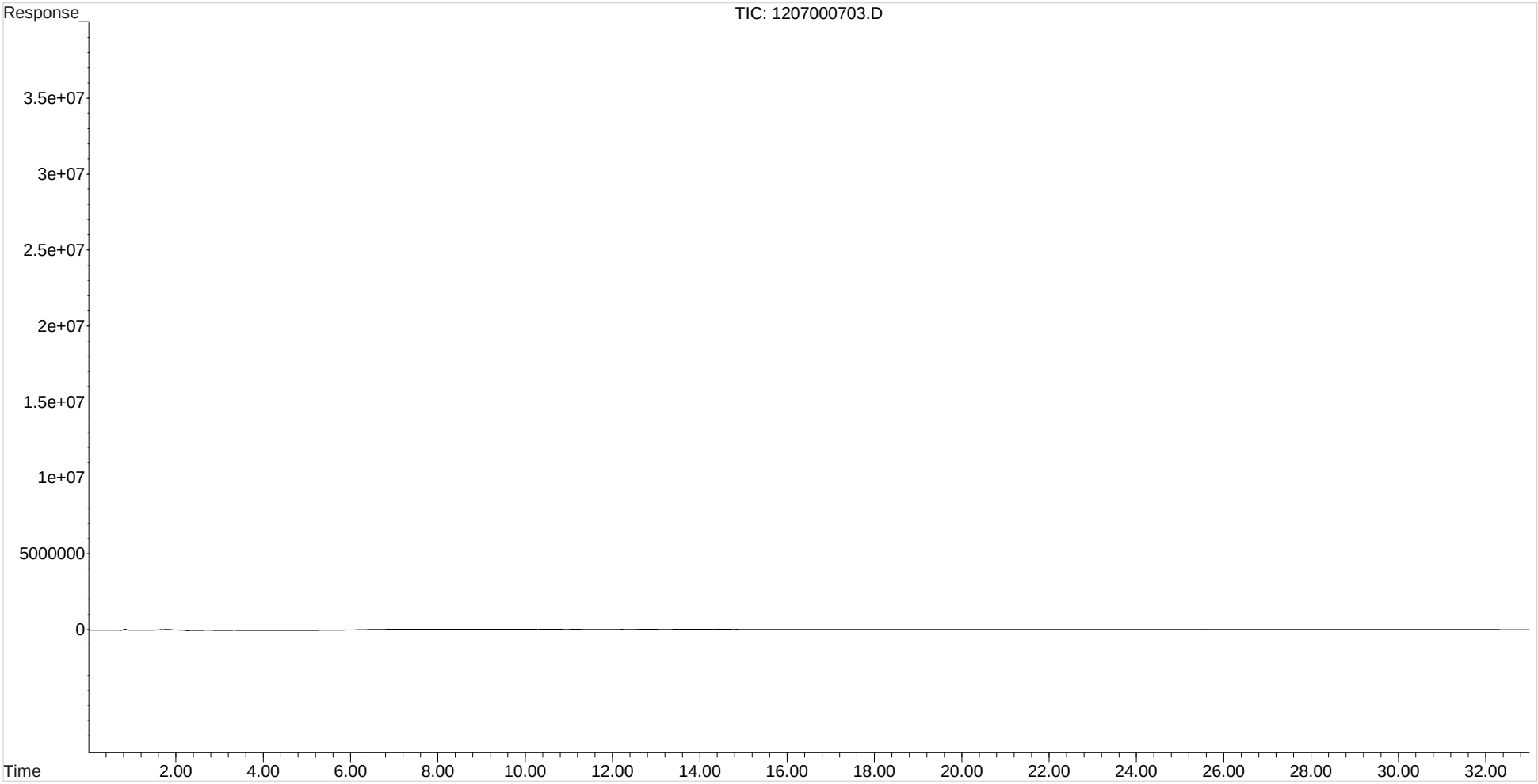
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000703.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 19:36:44 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:24:49 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:23:13 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 13:46:47 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
18) S	1-Chloro-3-Nitrobenzene	29.718	461332	NoCal	ug/L	m
	Target Compounds					
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2) T	HMX	4.618	232698	NoCal	ug/L	m
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4) T	RDX	8.378	420328	NoCal	ug/L	m
5) T	1,3,5-TNB	10.518	908690	NoCal	ug/L	m
6) T	1,3-DNB	13.865	1258488	NoCal	ug/L	
7) T	3,5-Dinitroaniline	14.978	975768	NoCal	ug/L	m
8) T	Tetryl	15.592	673809	NoCal	ug/L	m
9) T	Nitrobenzene	16.198	787874	NoCal	ug/L	m
10) T	2,4,6-TNT	17.445	797481	NoCal	ug/L	m
11) T	4-Amino-2,6-DNT	19.212	537582	NoCal	ug/L	m
12) T	2-Amino-4,6-DNT	20.038	846074	NoCal	ug/L	m
13) T	2,6-DNT	21.765	470868	NoCal	ug/L	m
14) T	2,4-DNT	22.218	1151614	NoCal	ug/L	m
15) T	2-NT	25.332	349859	NoCal	ug/L	m
16) T	4-NT	26.252	319957	NoCal	ug/L	m
17) T	3-NT	27.378	411159	NoCal	ug/L	m

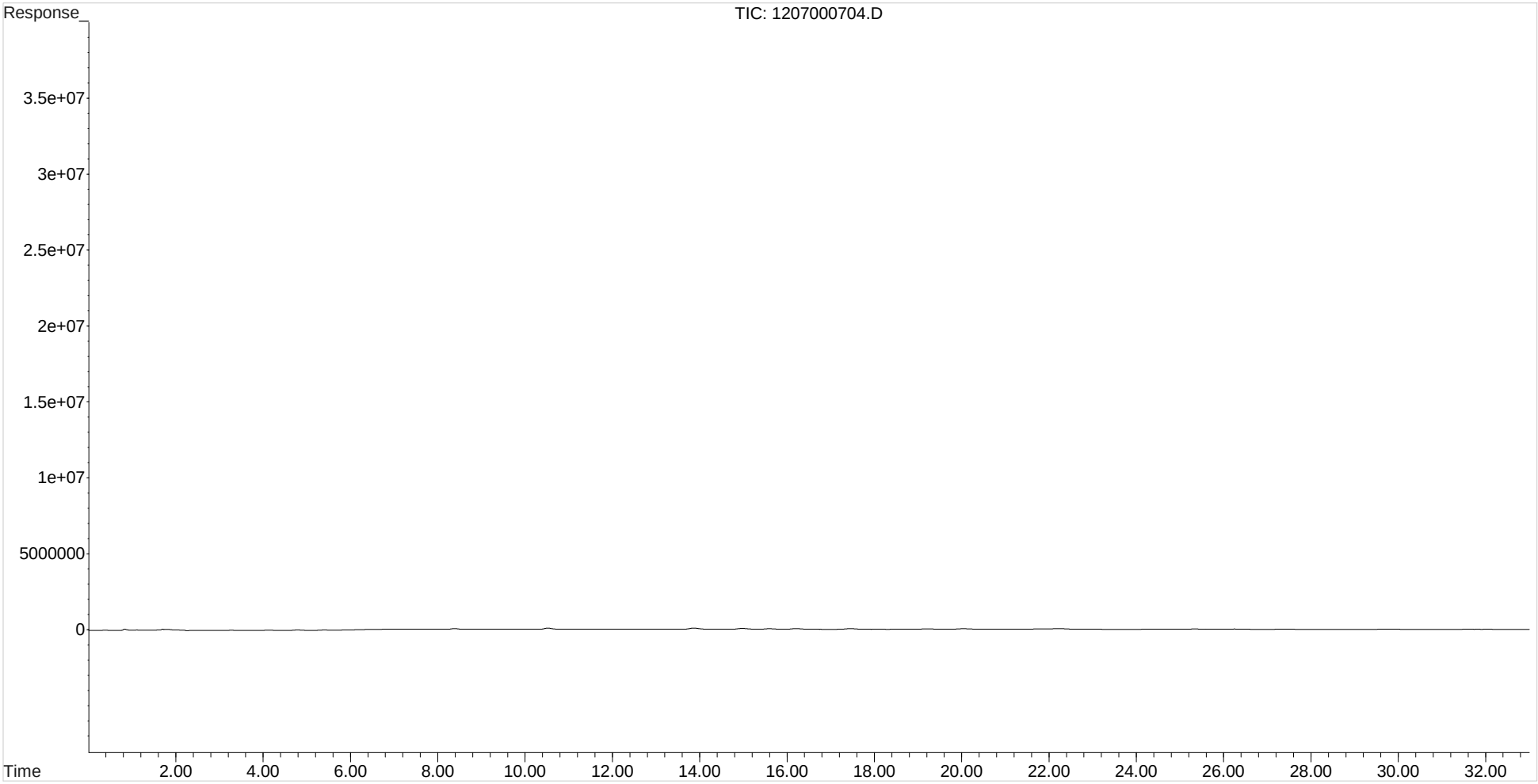
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 13:46:47 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

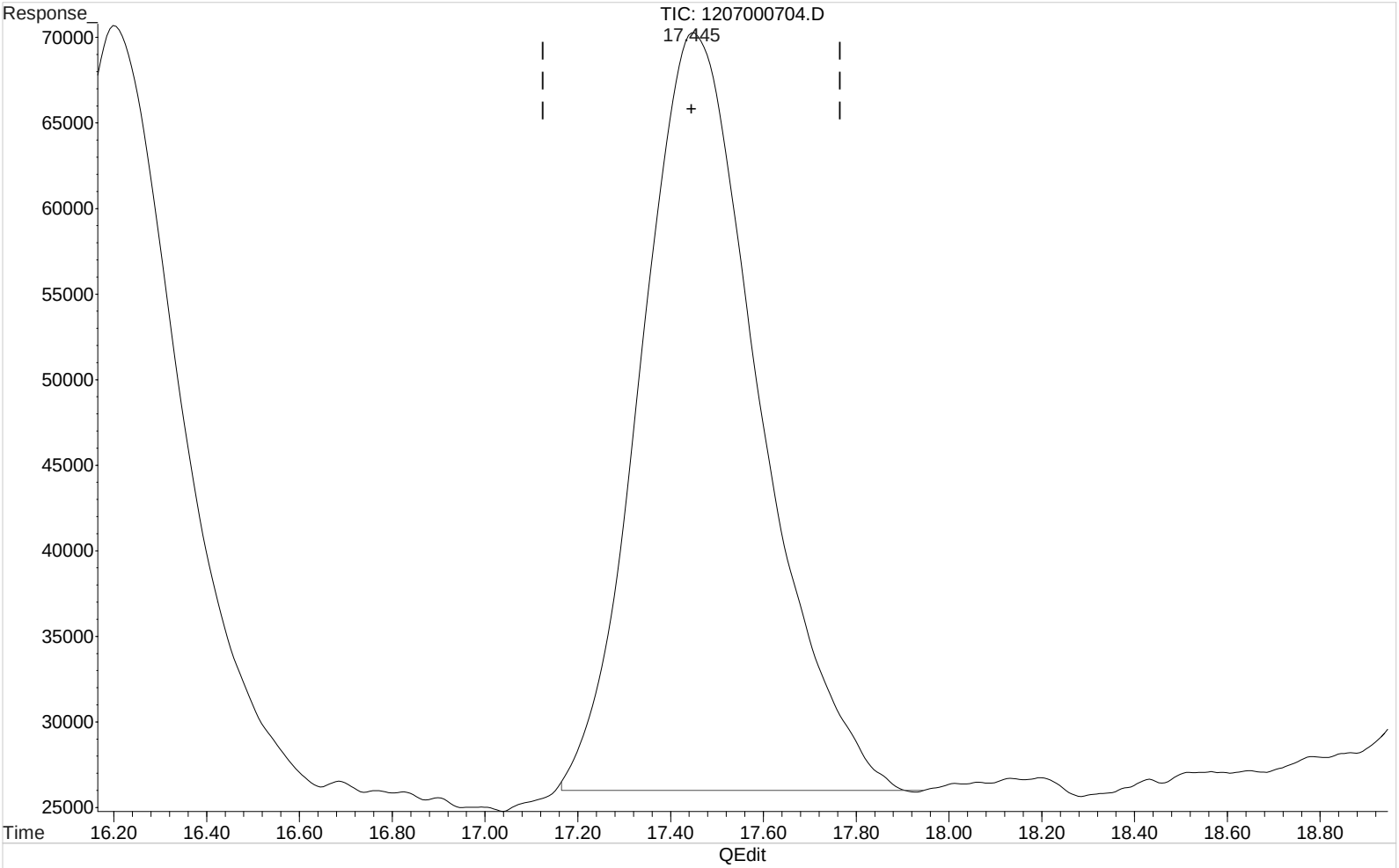


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(10) 2,4,6-TNT (T)

17.445min 0.000 ug/L

response 786868

Manual Integration:

Before

12/08/16

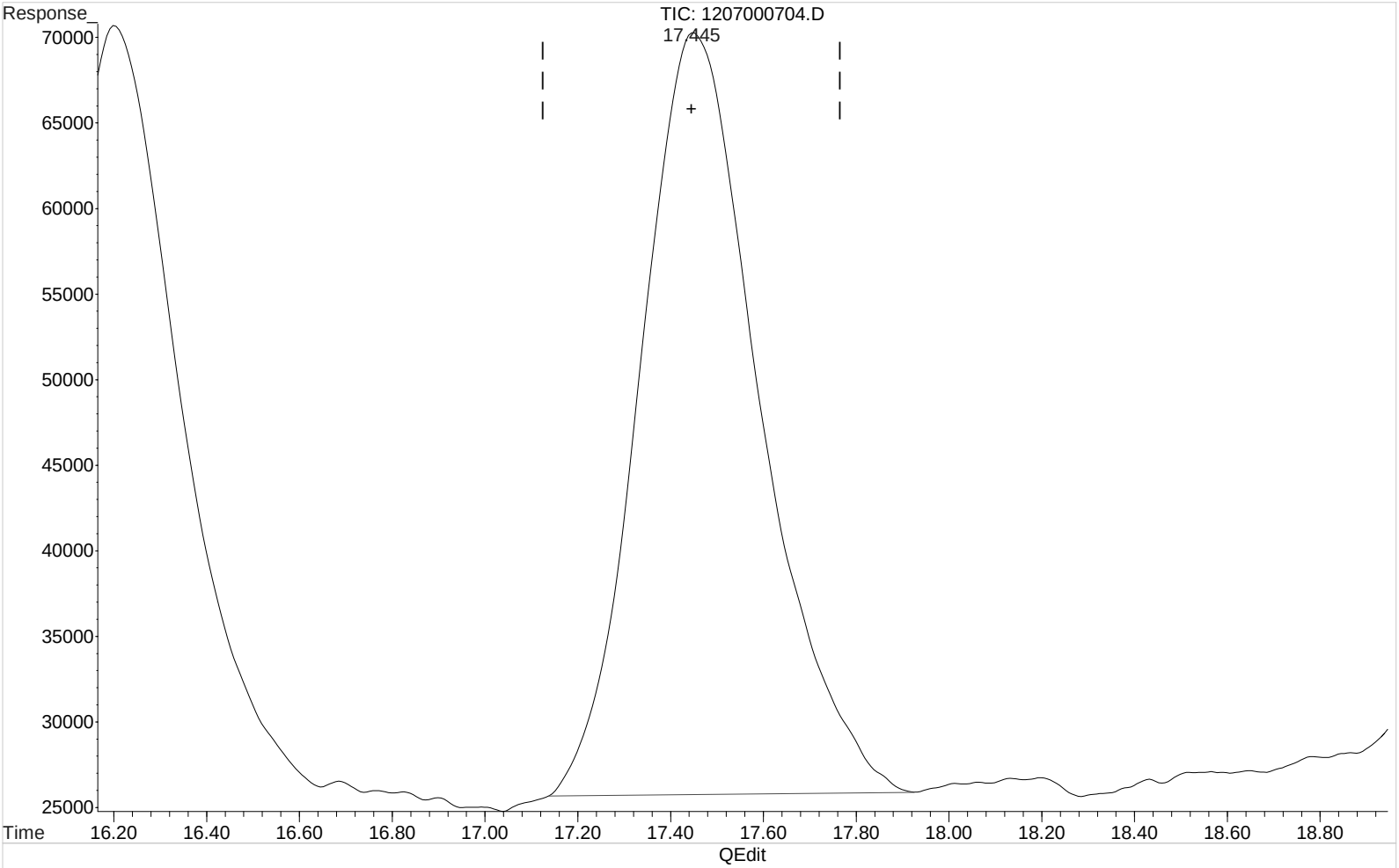
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(10) 2,4,6-TNT (T)

17.445min 0.000 ug/L m

response 797481

Manual Integration:

After

BLC

12/08/16

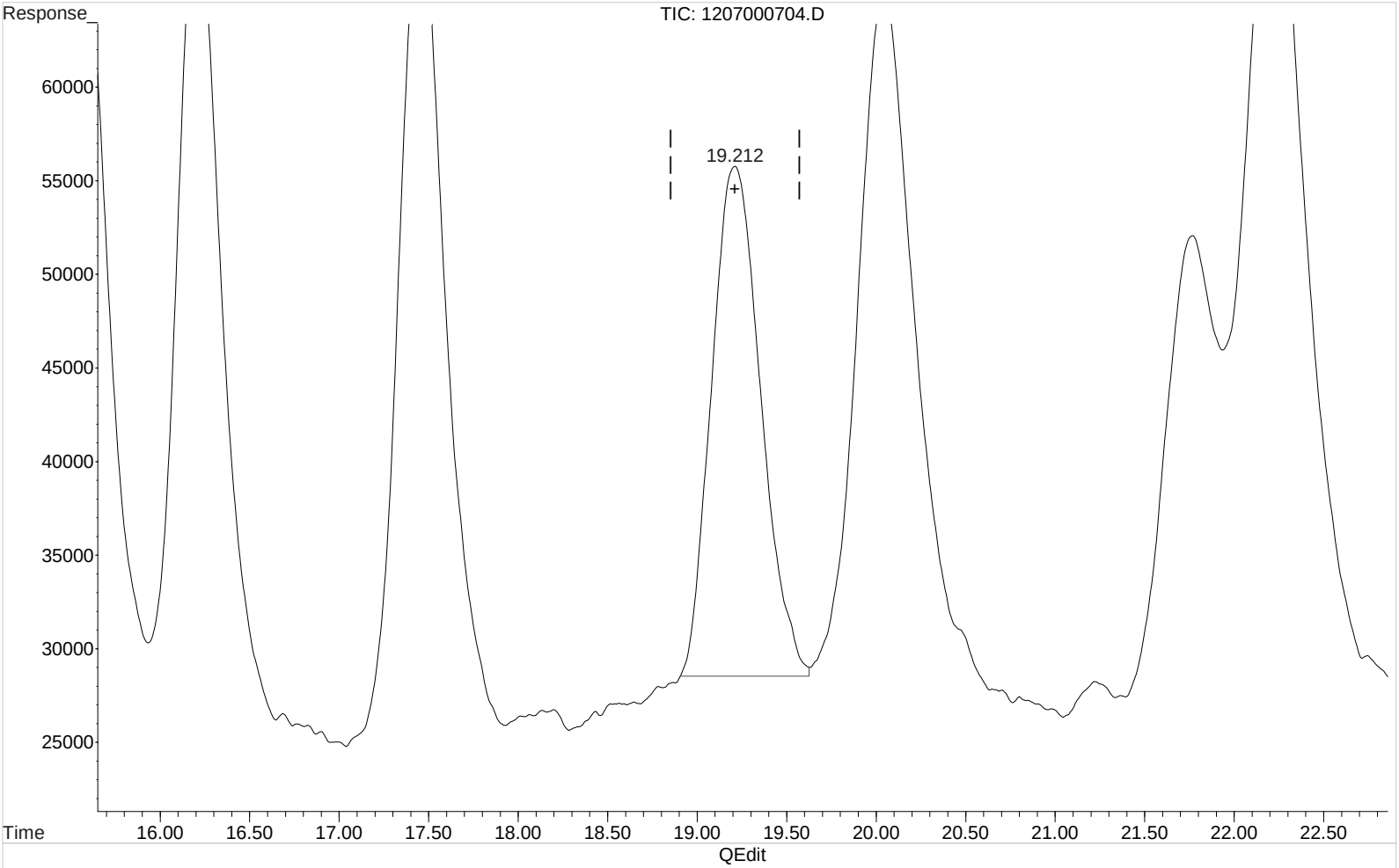
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(11) 4-Amino-2,6-DNT (T)

19.212min 0.000 ug/L

response 521042

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

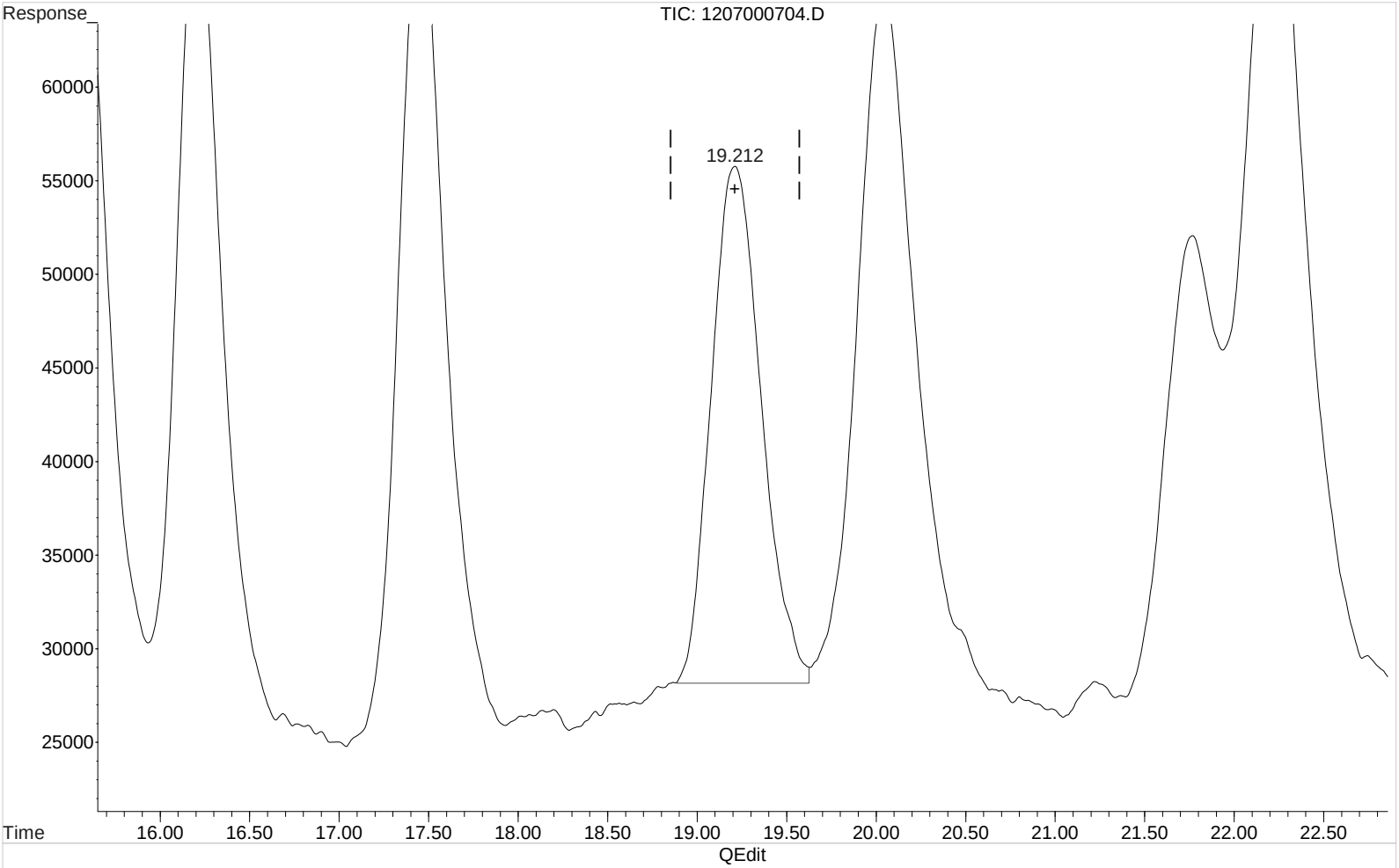
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(11) 4-Amino-2,6-DNT (T)

19.212min 0.000 ug/L m

response 537582

Manual Integration:

After

BLC

12/08/16

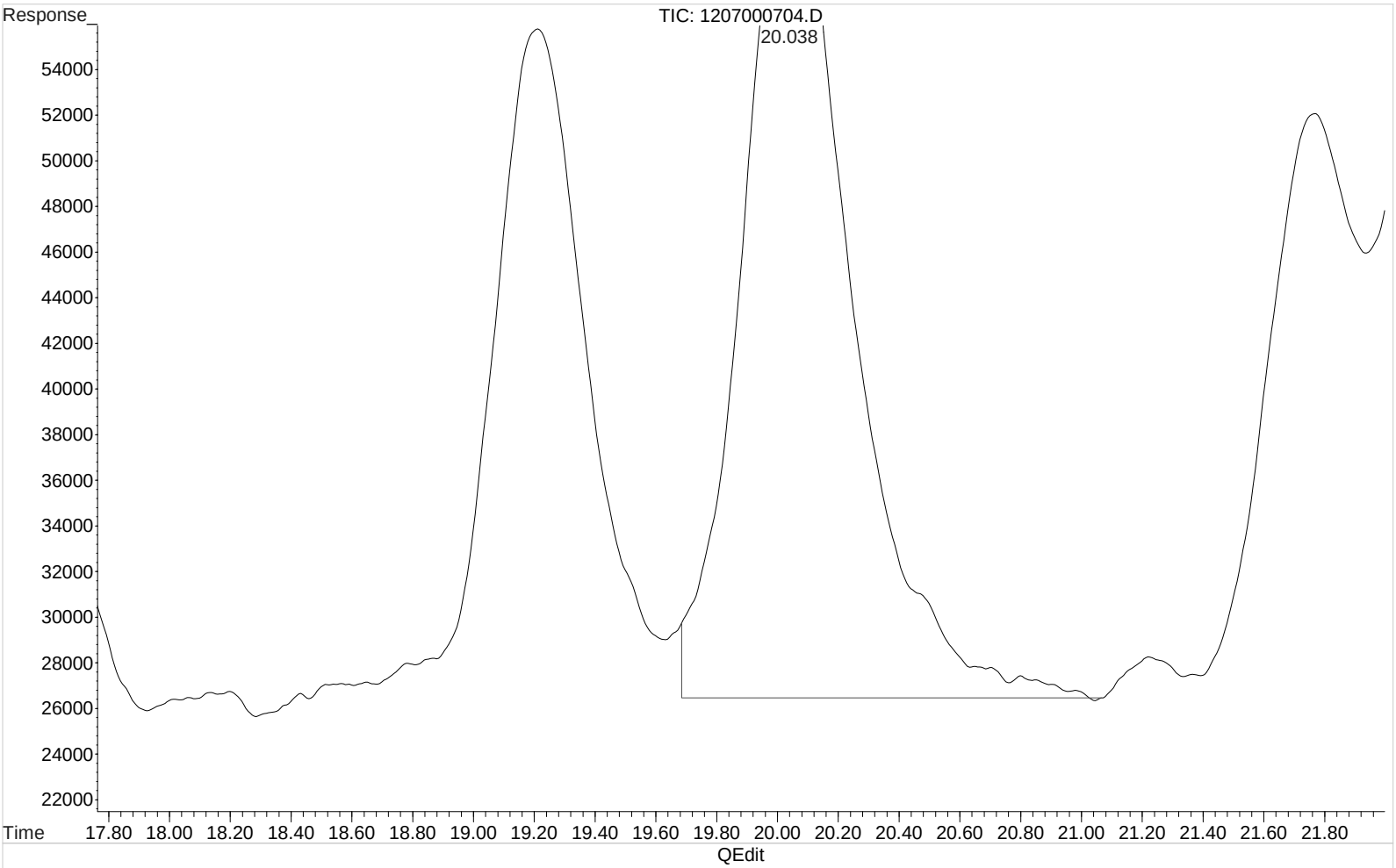
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(12) 2-Amino-4,6-DNT (T)

20.038min 0.000 ug/L

response 932740

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

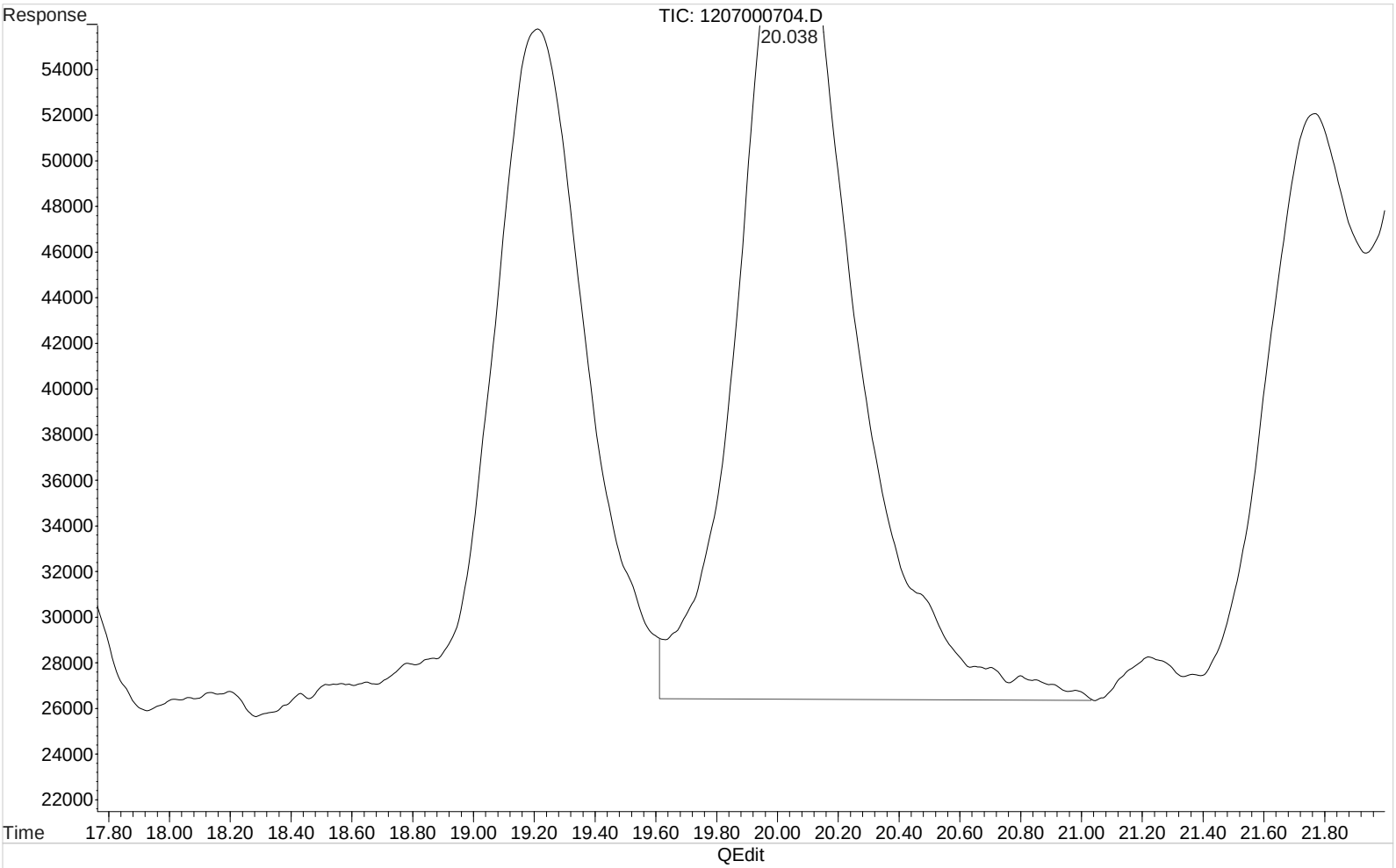
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(12) 2-Amino-4,6-DNT (T)

20.038min 0.000 ug/L m

response 951343

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)

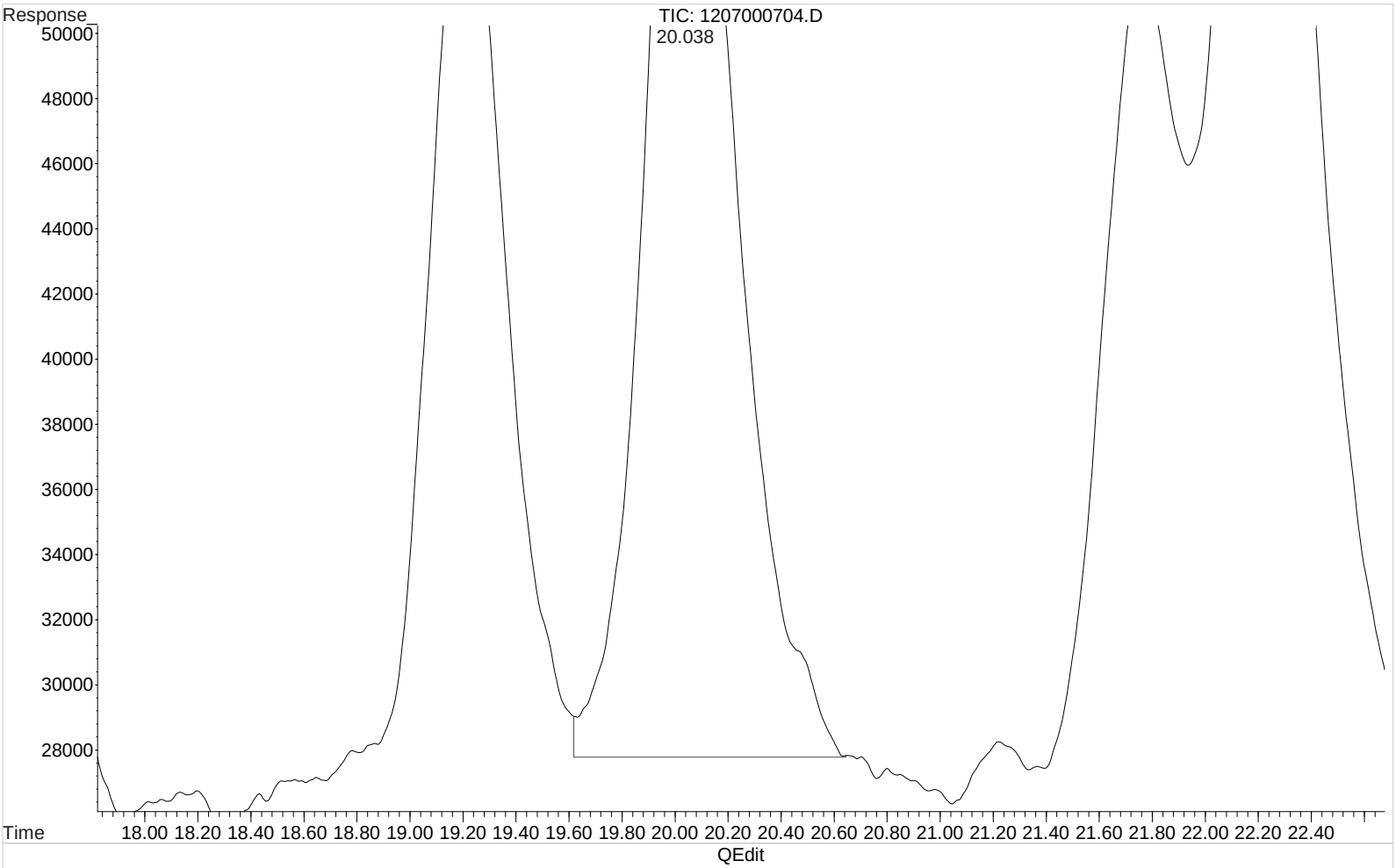
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:32:07 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(12) 2-Amino-4,6-DNT (T)

20.038min 0.000 ug/L m

response 846074

Manual Integration:

After

Baseline/Shoulder

12/08/16

(+) = Expected Retention Time

(b) (6)

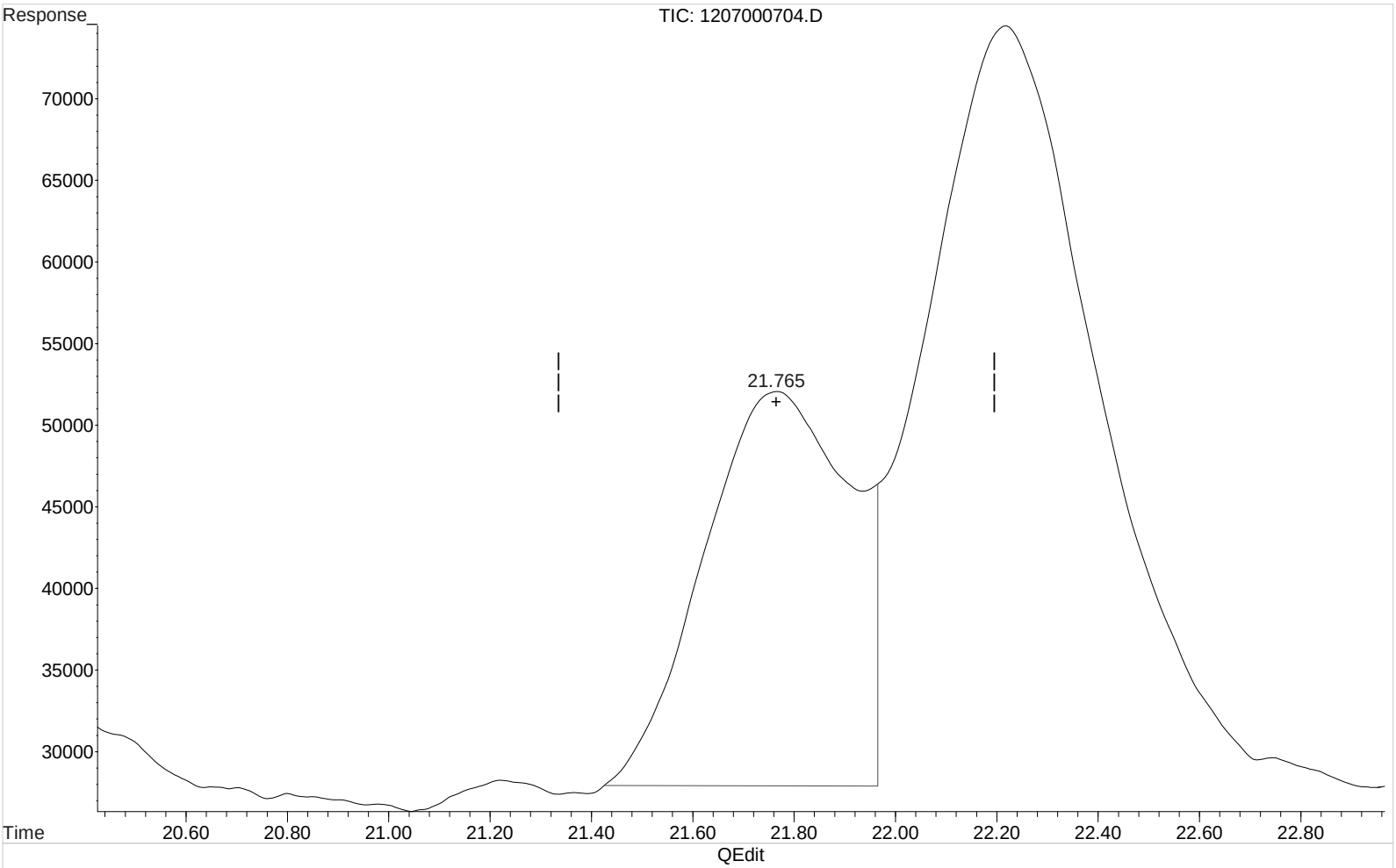
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.765min 0.000 ug/L

response 490736

Manual Integration:

Before

12/08/16

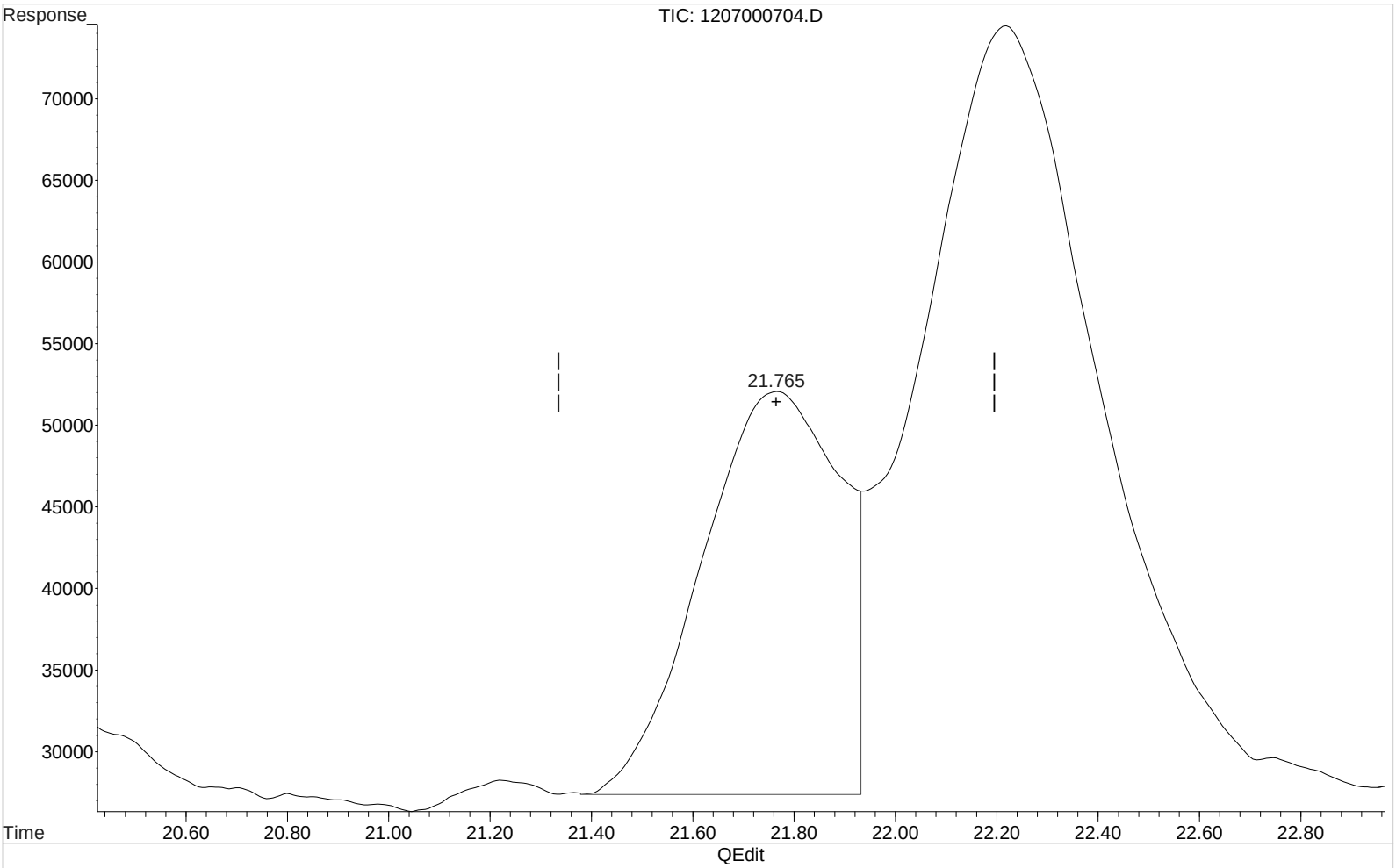
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.765min 0.000 ug/L m

response 470868

Manual Integration:

After

BLC

12/08/16

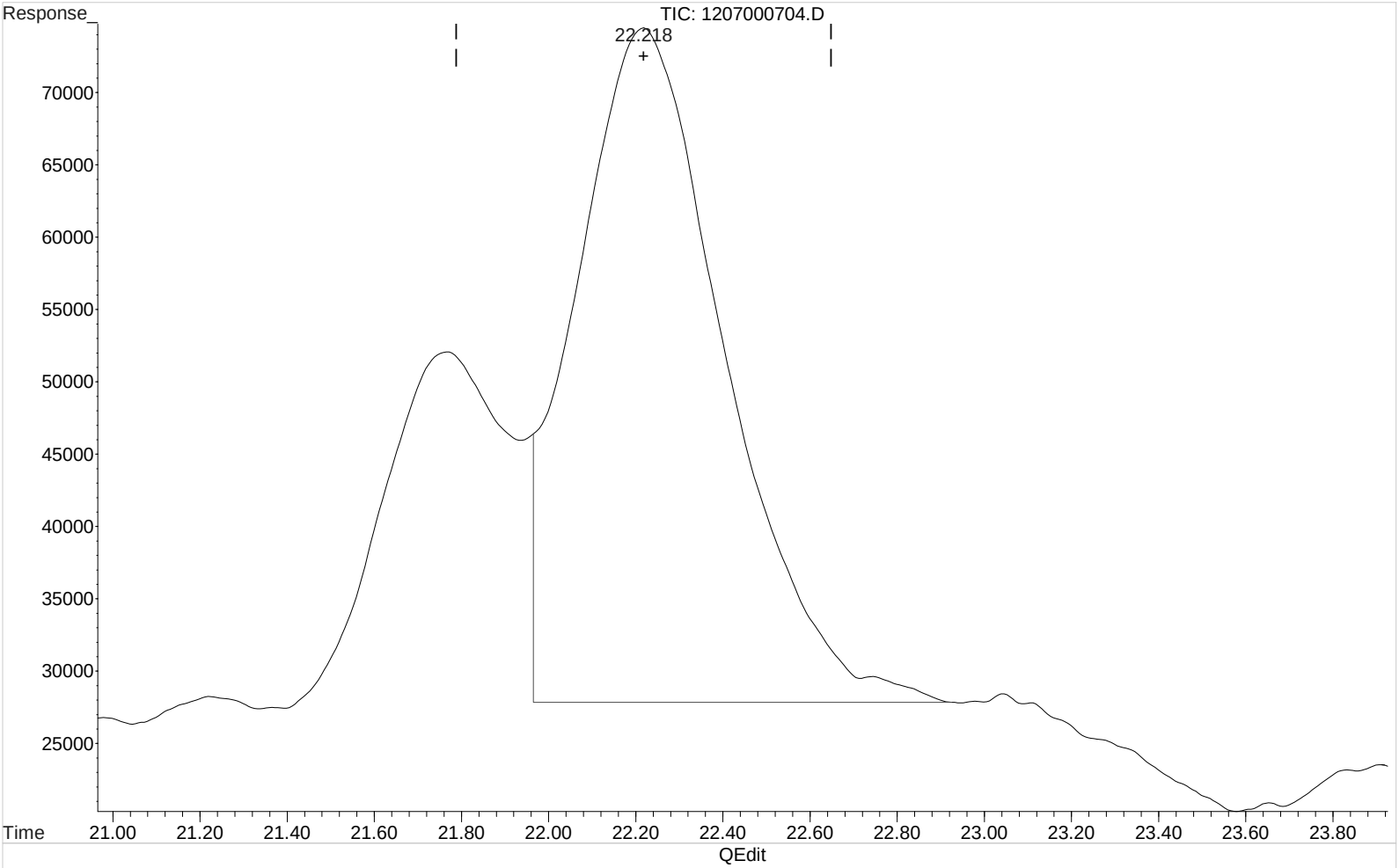
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.218min 0.000 ug/L

response 1110180

Manual Integration:

Before

12/08/16

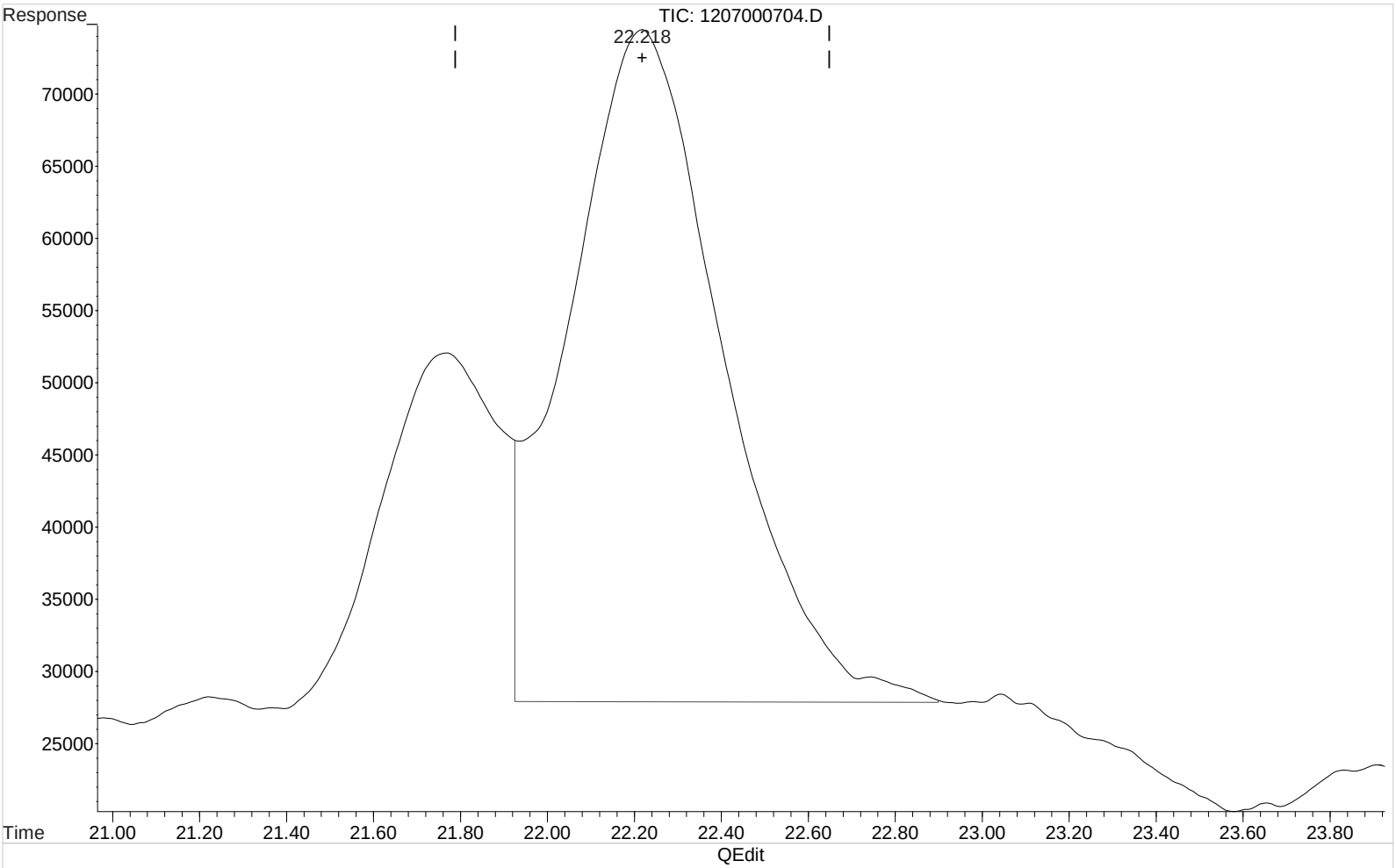
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(14) 2,4-DNT (T)

22.218min 0.000 ug/L m

response 1151614

Manual Integration:

After

BLC

12/08/16

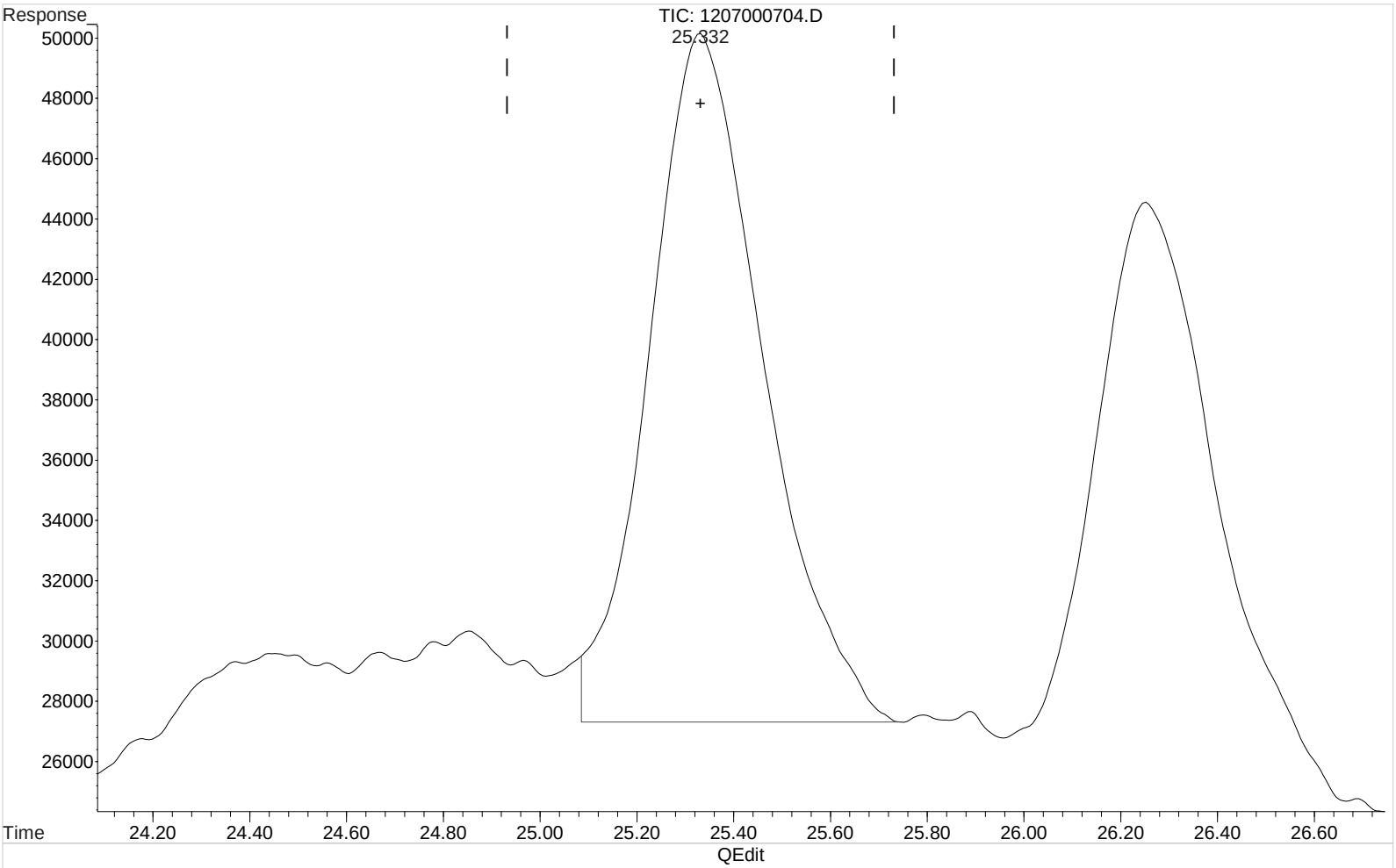
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.332min 0.000 ug/L

response 373720

Manual Integration:

Before

12/08/16

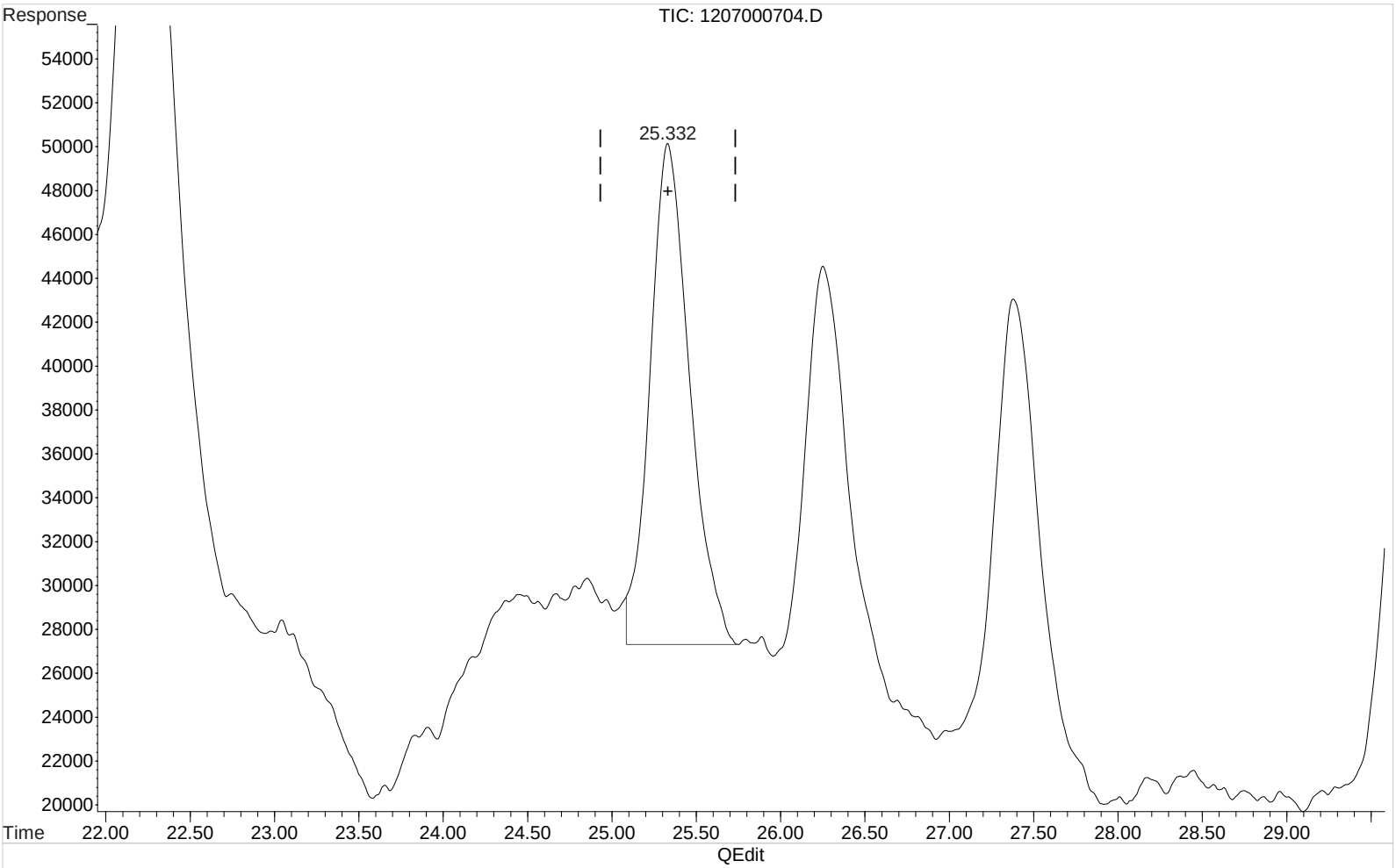
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.332min 0.000 ug/L

response 373720

Manual Integration:

Before

12/08/16

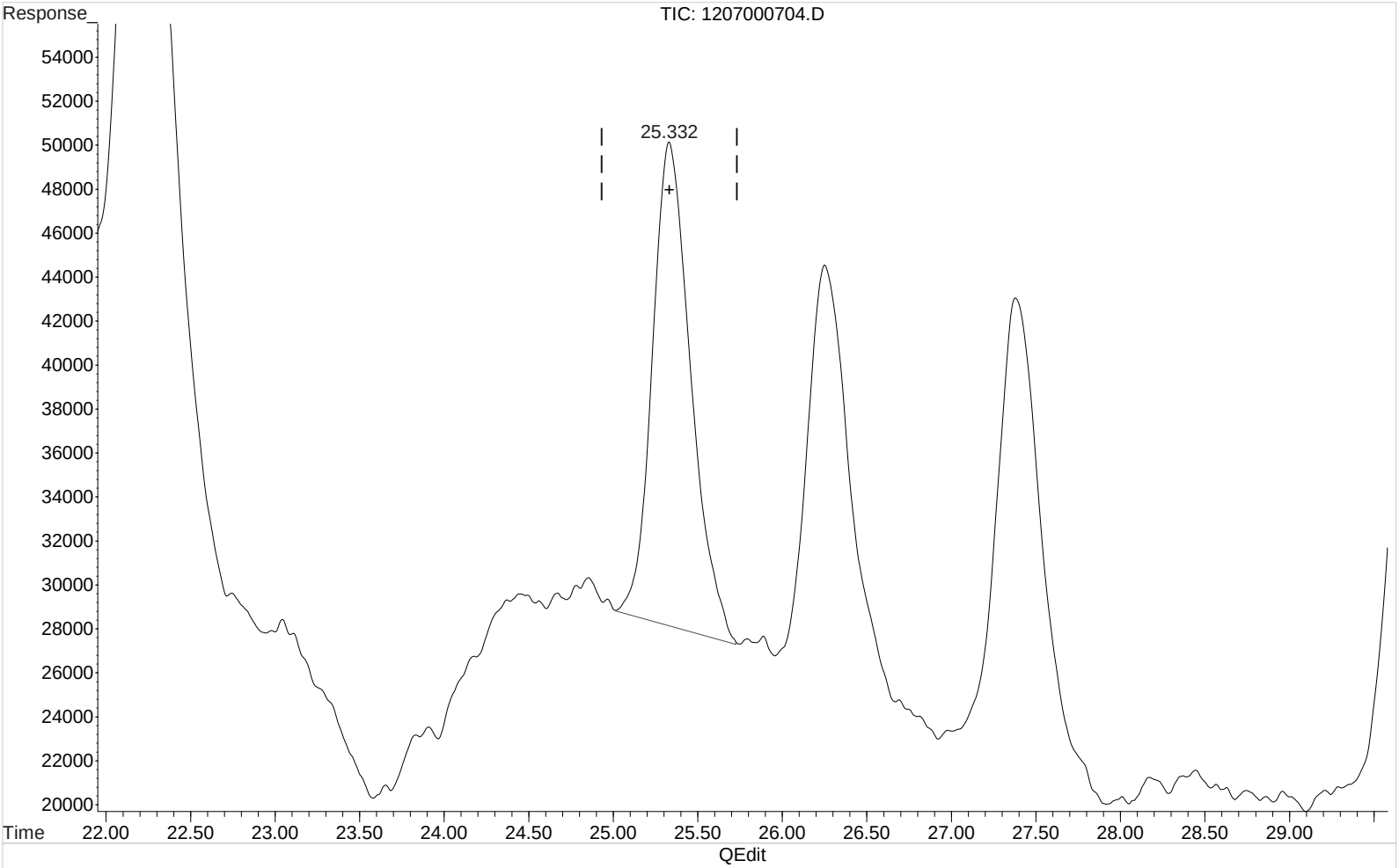
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.332min 0.000 ug/L m

response 349859

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)

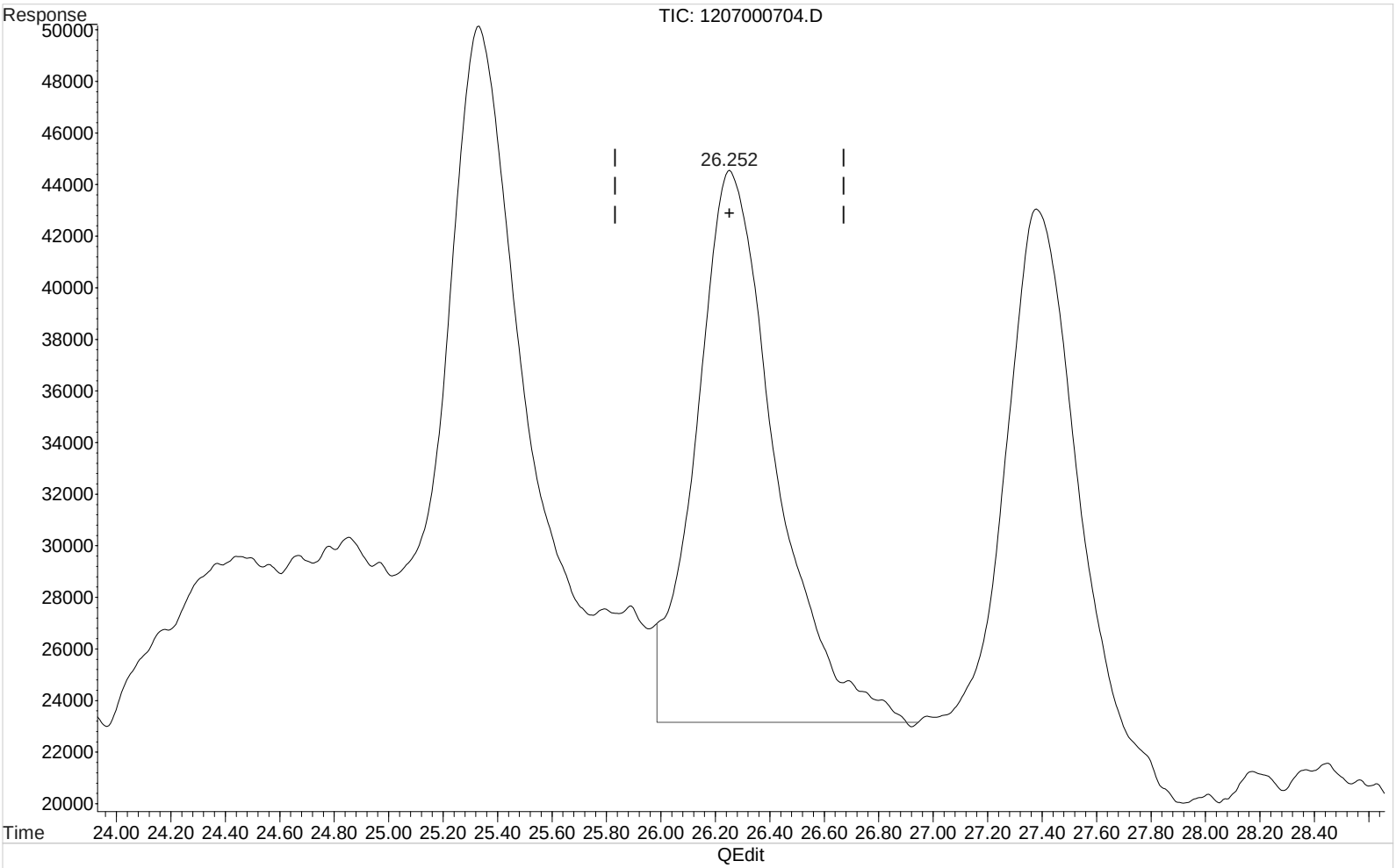
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.252min 0.000 ug/L

response 435478

Manual Integration:

Before

12/08/16

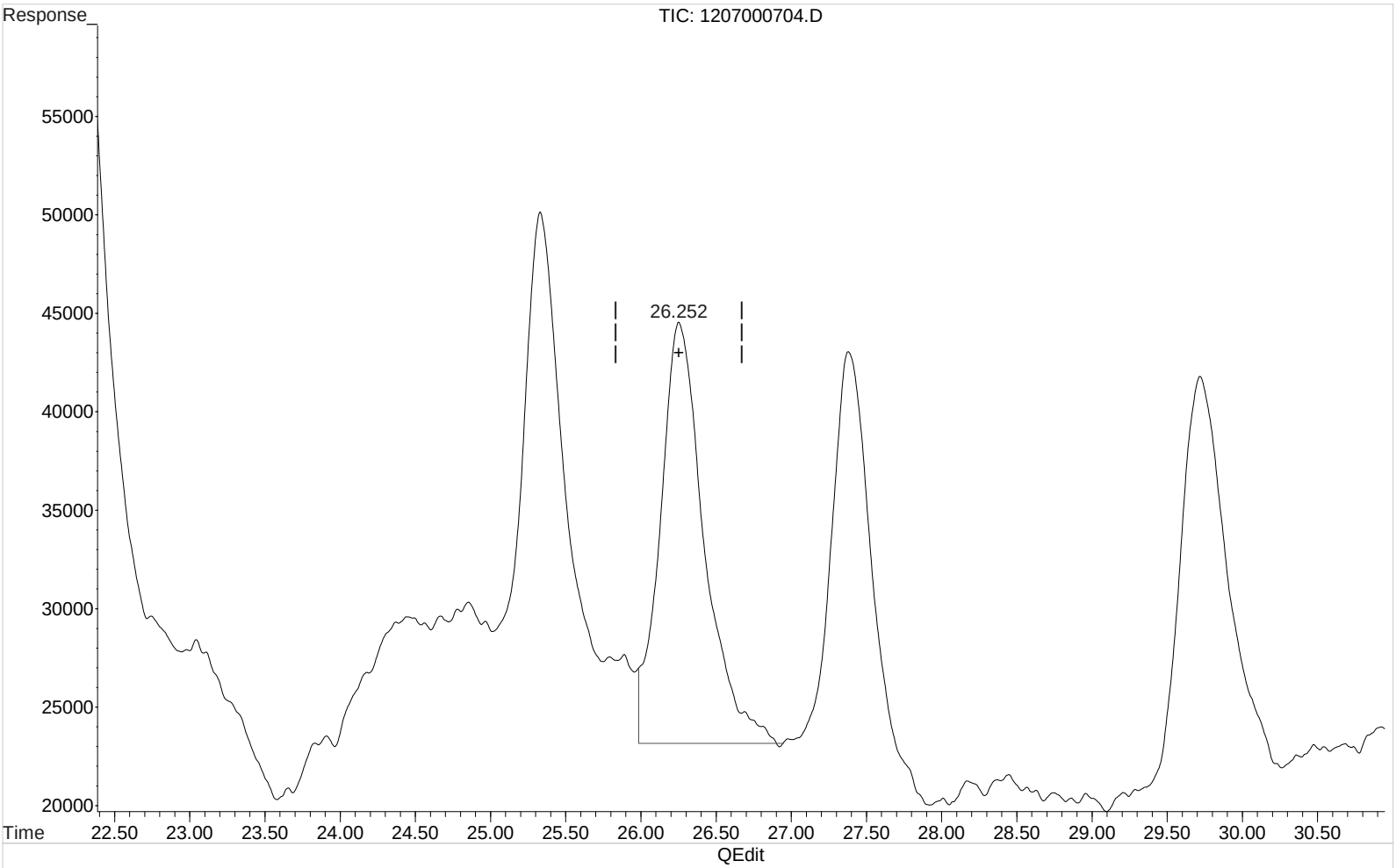
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.252min 0.000 ug/L

response 435478

Manual Integration:

Before

12/08/16

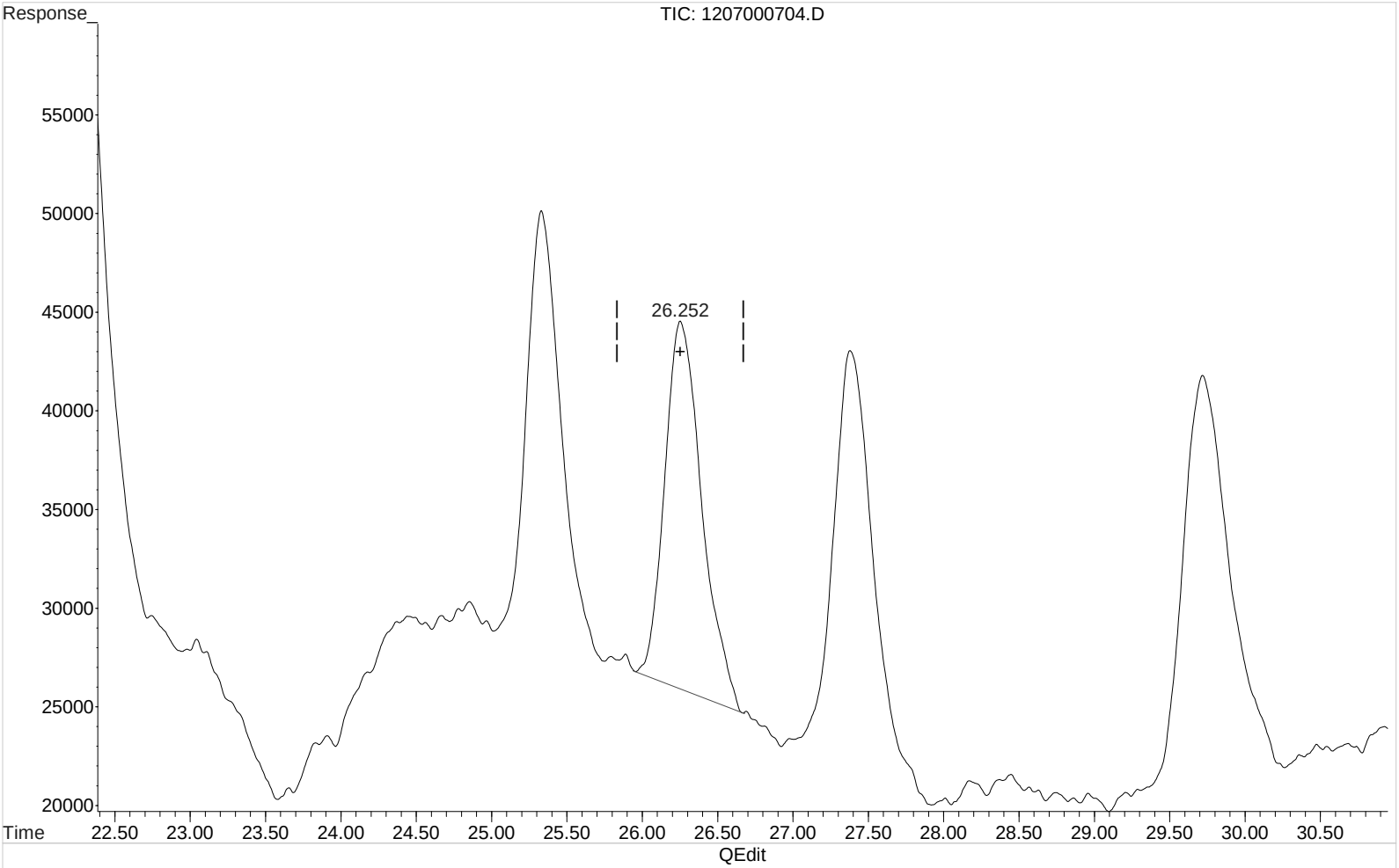
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.252min 0.000 ug/L m

response 319957

Manual Integration:

After

BLC

12/08/16

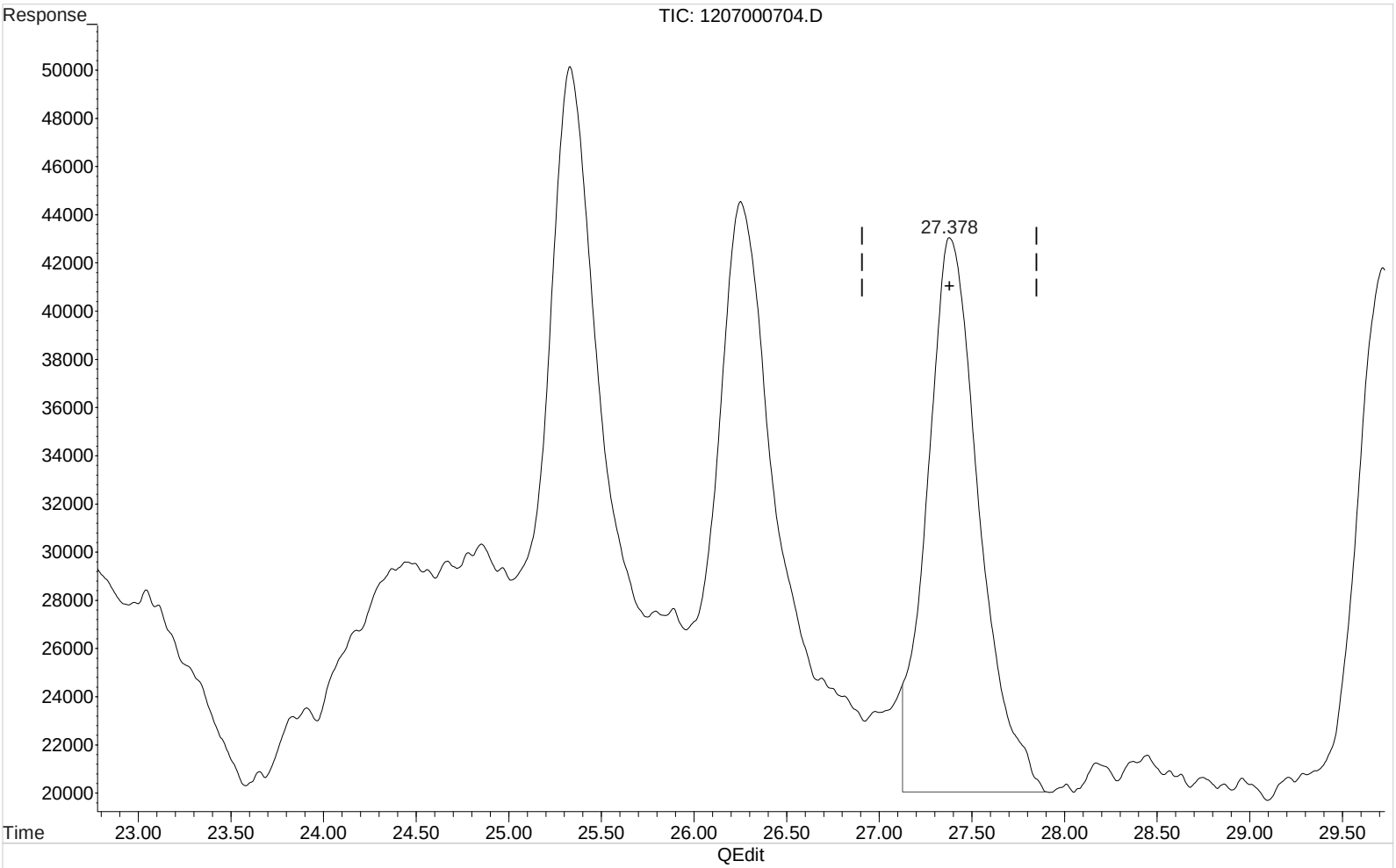
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.378min 0.000 ug/L

response 452684

Manual Integration:

Before

12/08/16

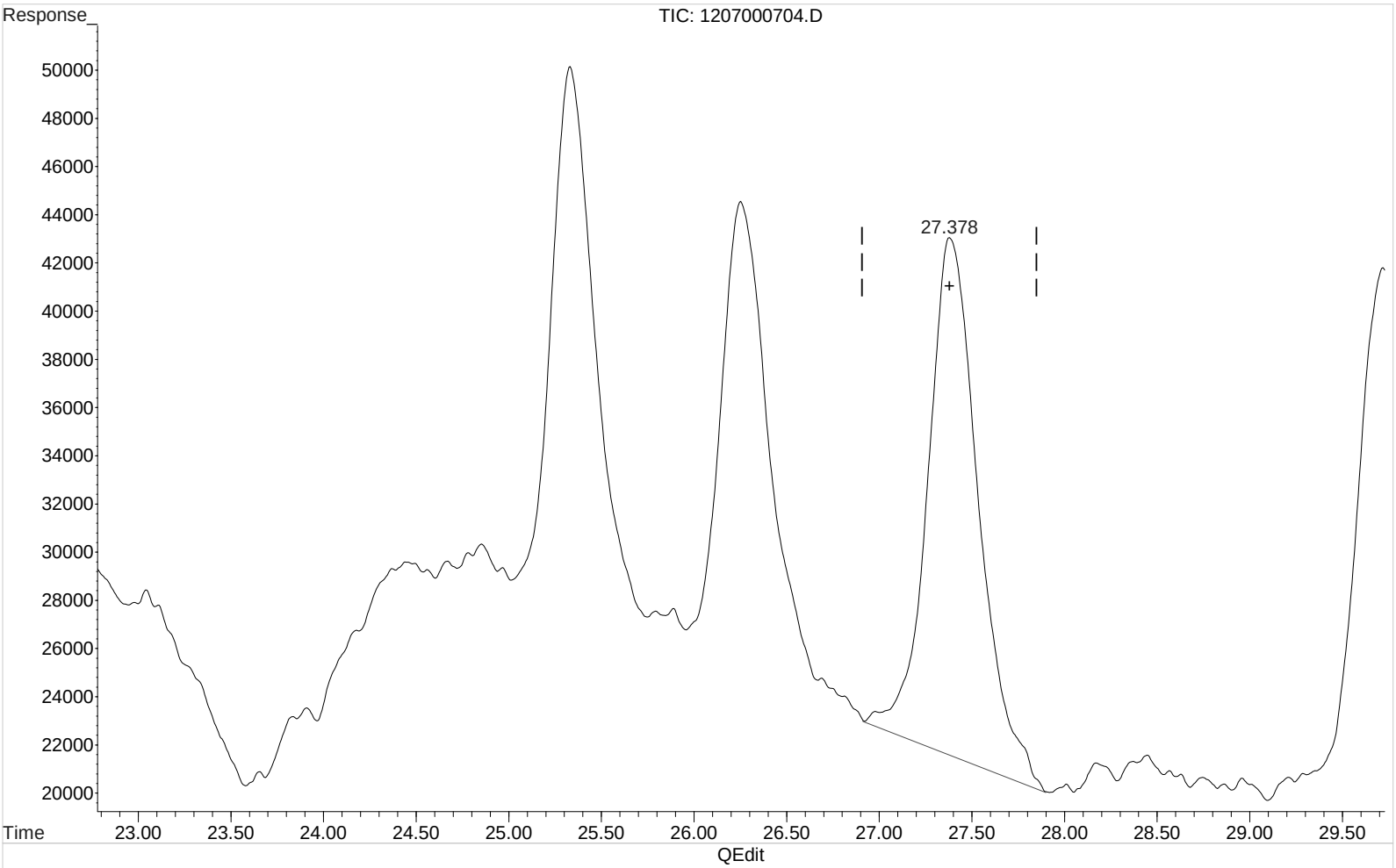
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.378min 0.000 ug/L m

response 411159

Manual Integration:

After

BLC

12/08/16

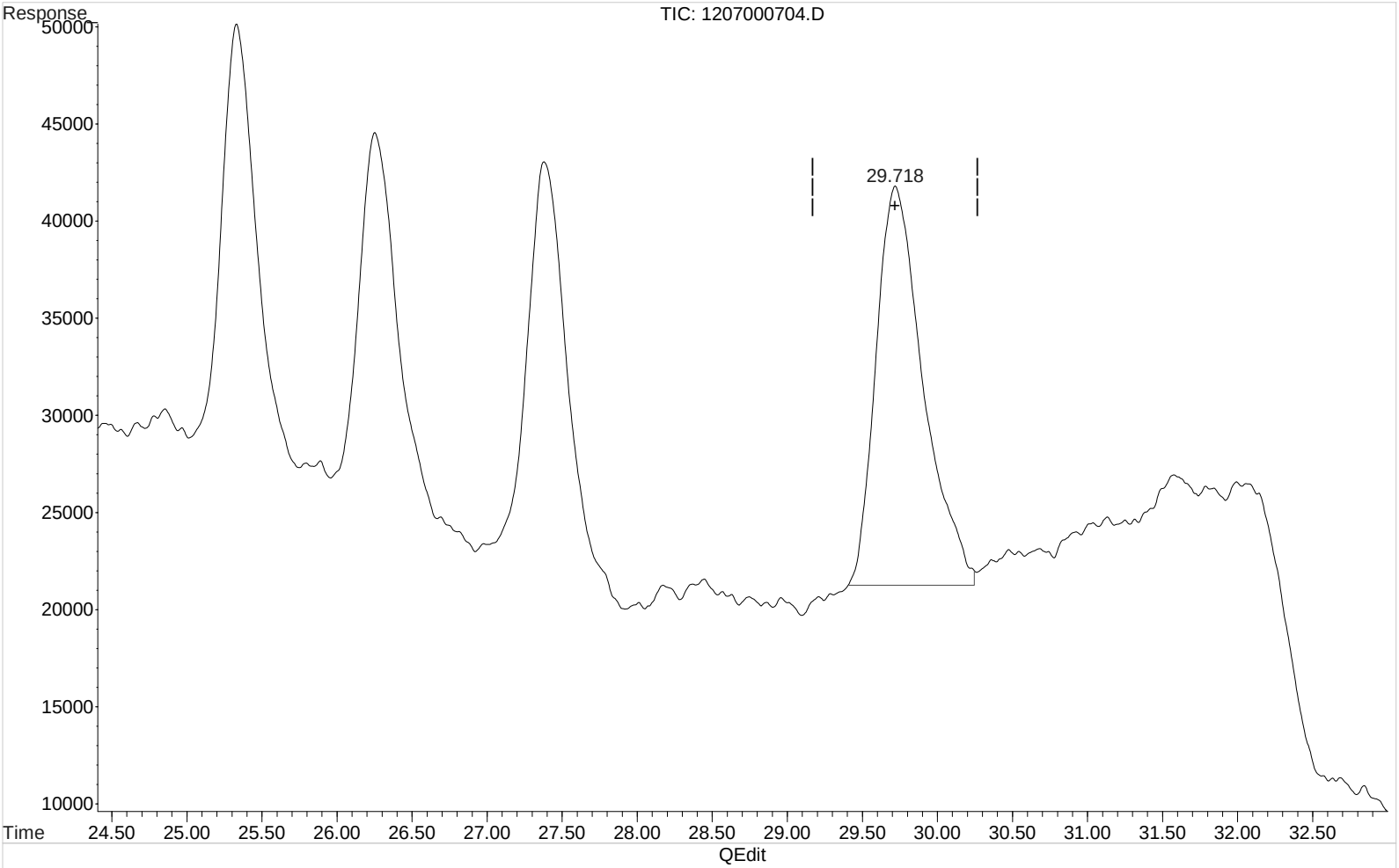
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(18) 1-Chloro-3-Nitrobenzene (S)

29.718min 0.000 ug/L

response 448530

Manual Integration:

Before

12/08/16

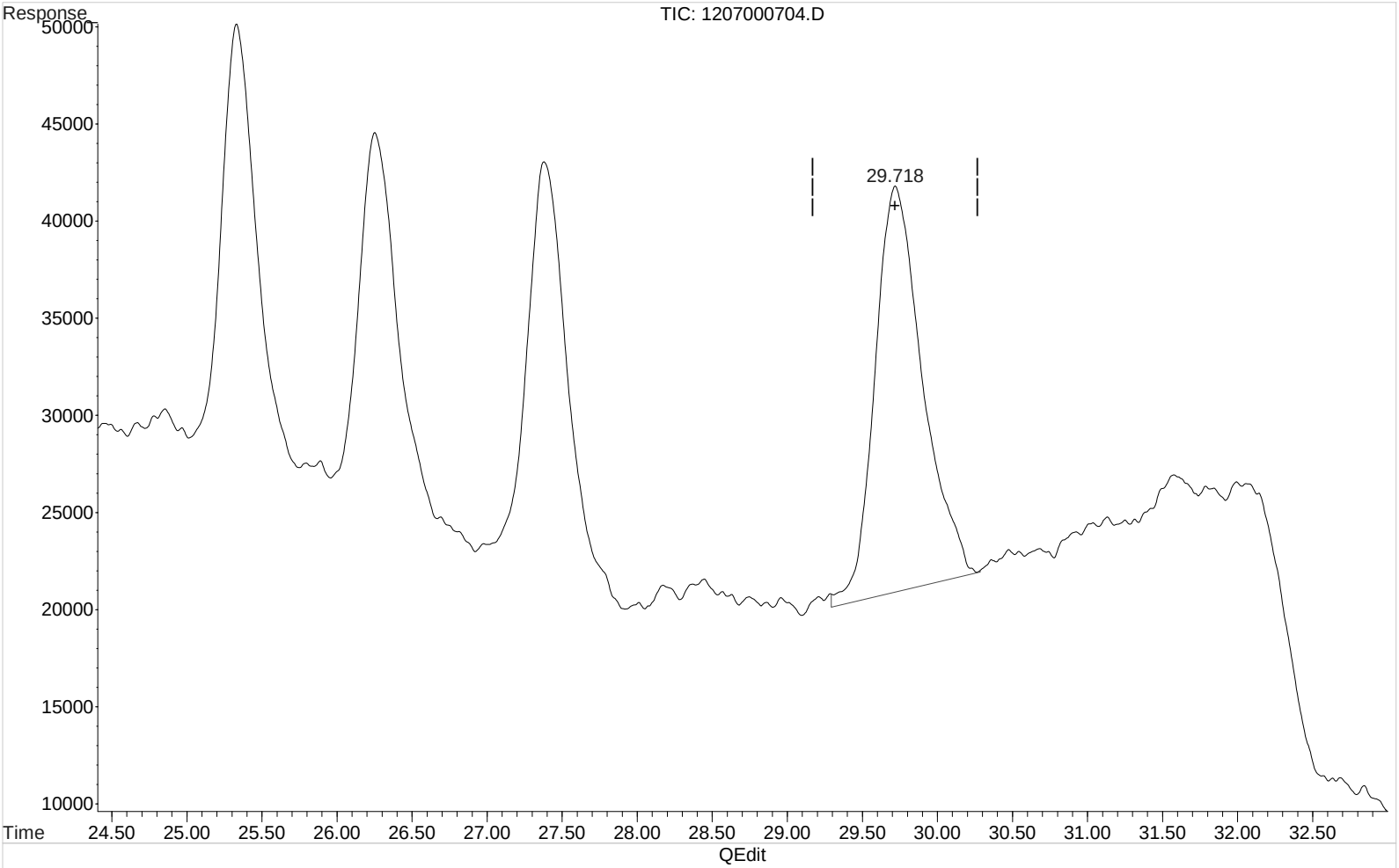
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(18) 1-Chloro-3-Nitrobenzene (S)

29.718min 0.000 ug/L m

response 461332

Manual Integration:

After

BLC

12/08/16

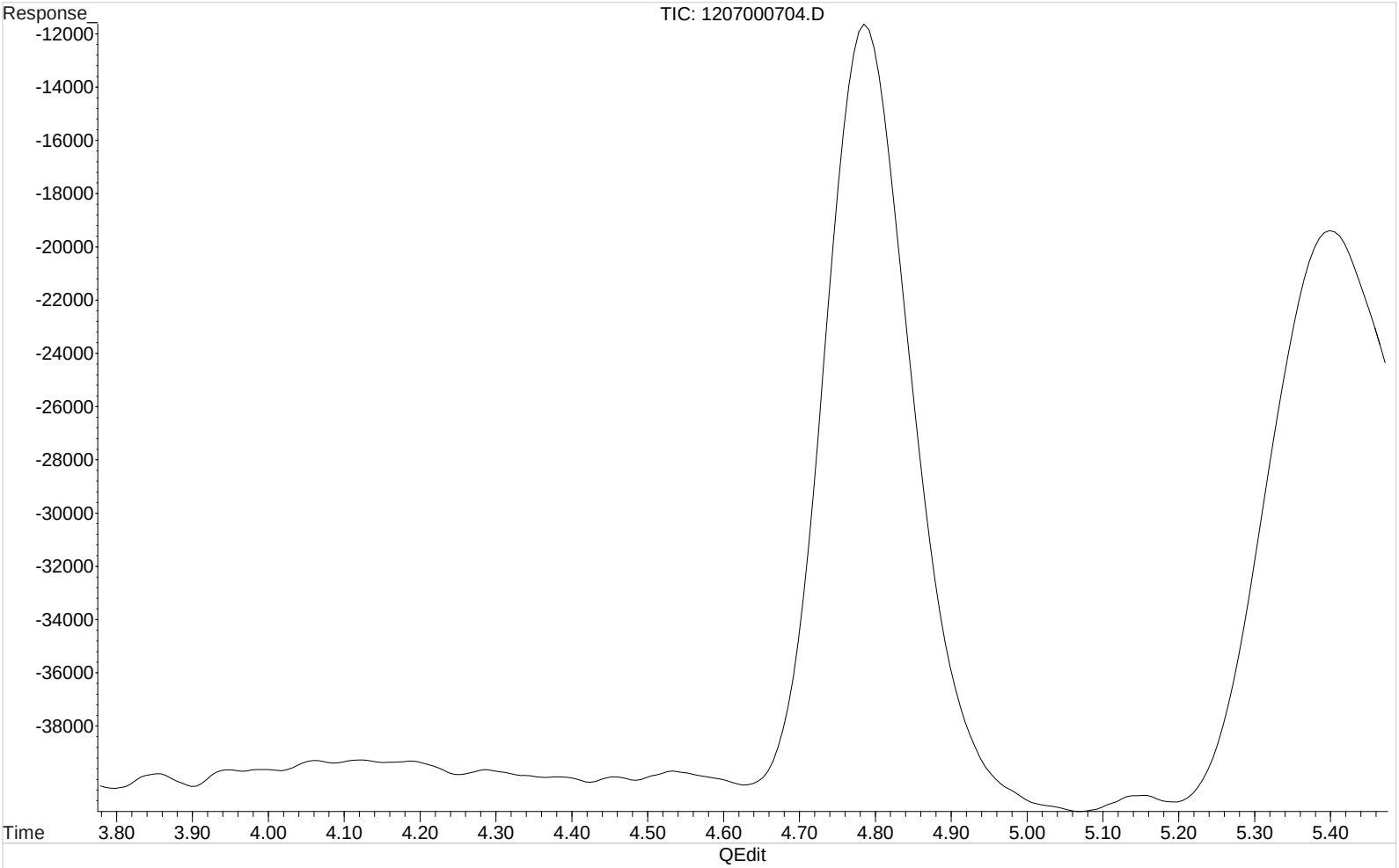
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(2) HMX (T)

4.625min 0.000 ug/L

response 0

Manual Integration:

Before

12/08/16

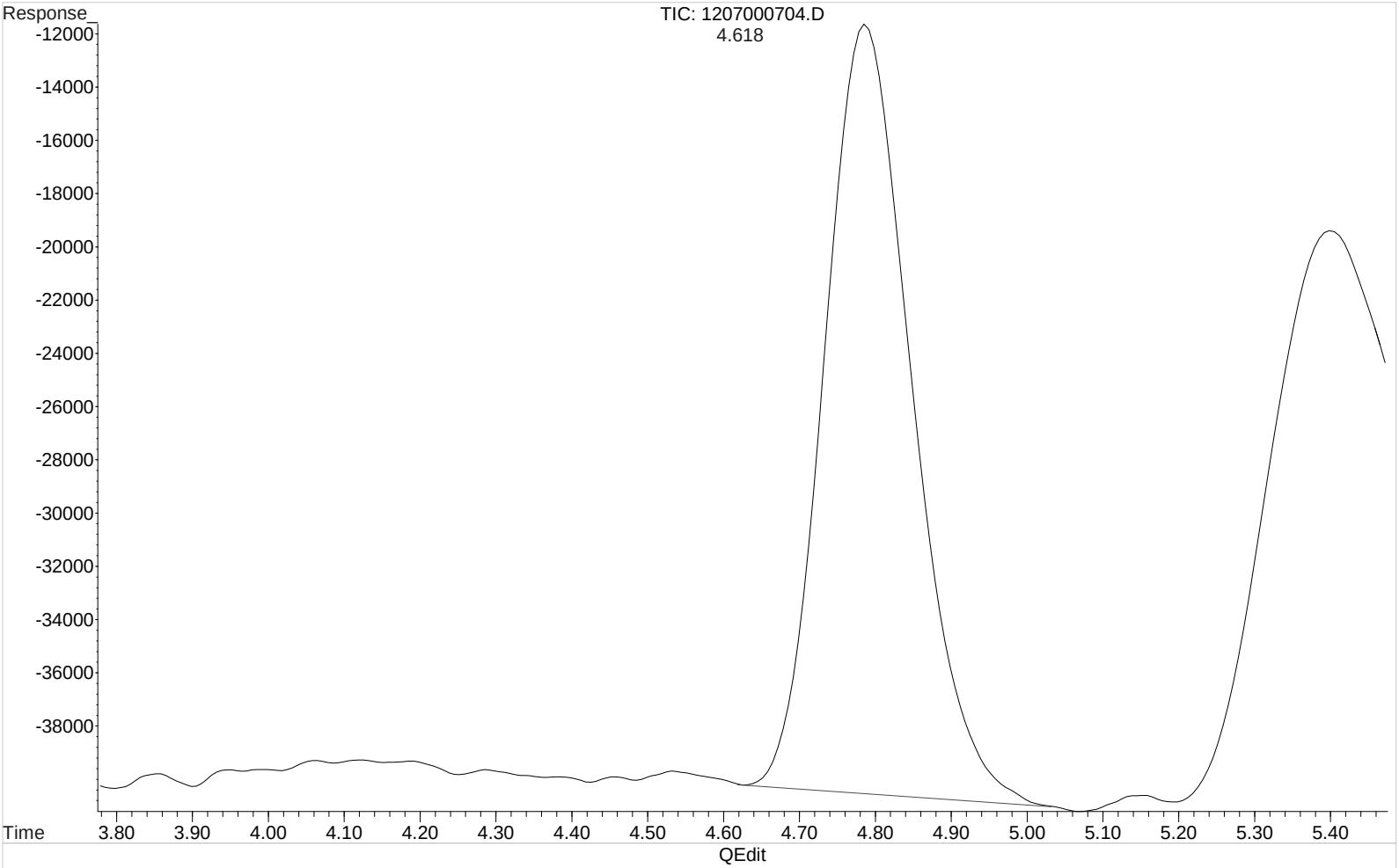
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(2) HMX (T)

4.618min 0.000 ug/L m

response 232698

Manual Integration:

After

BLC

12/08/16

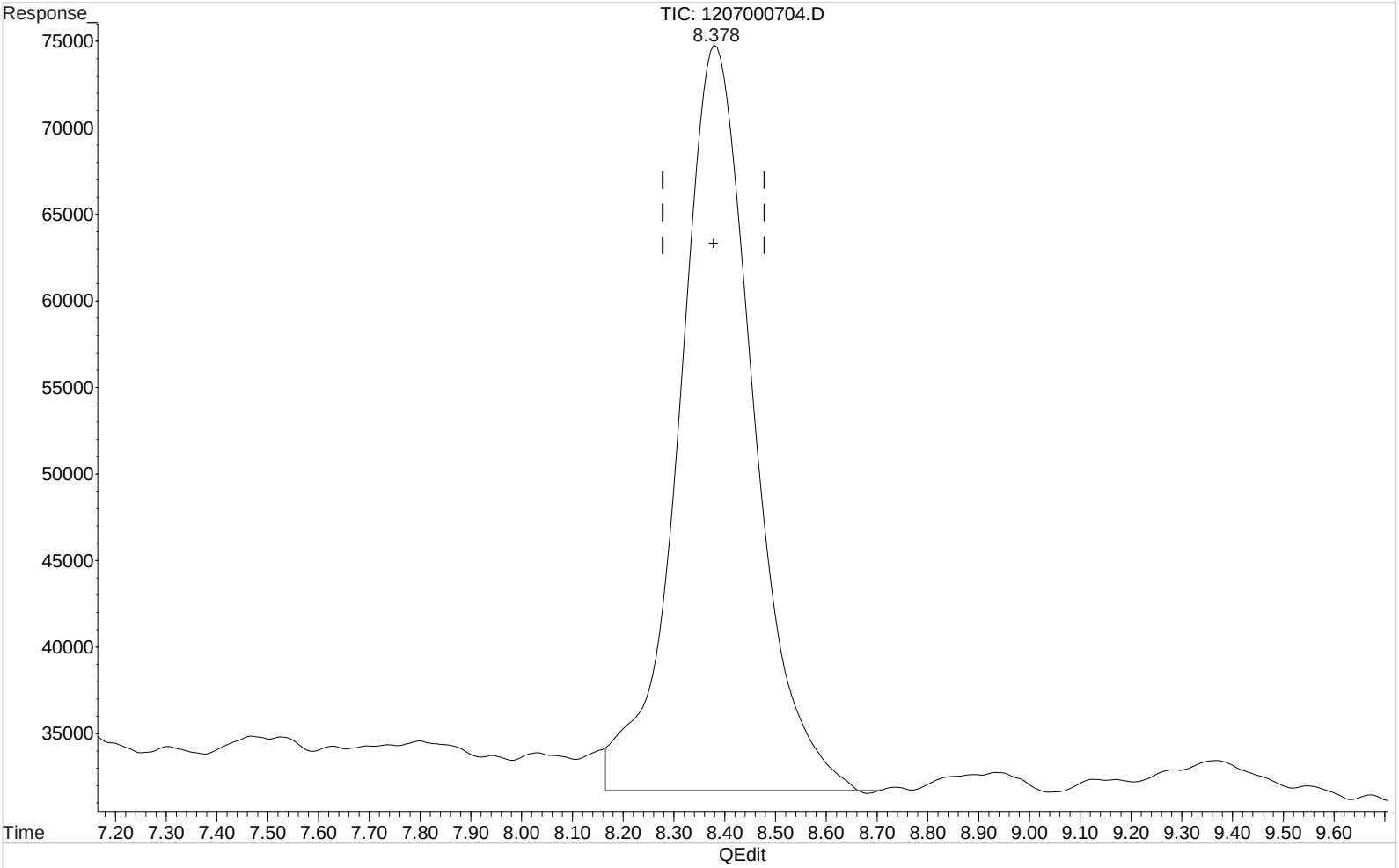
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(4) RDX (T)

8.378min 0.000 ug/L

response 440014

Manual Integration:

Before

12/08/16

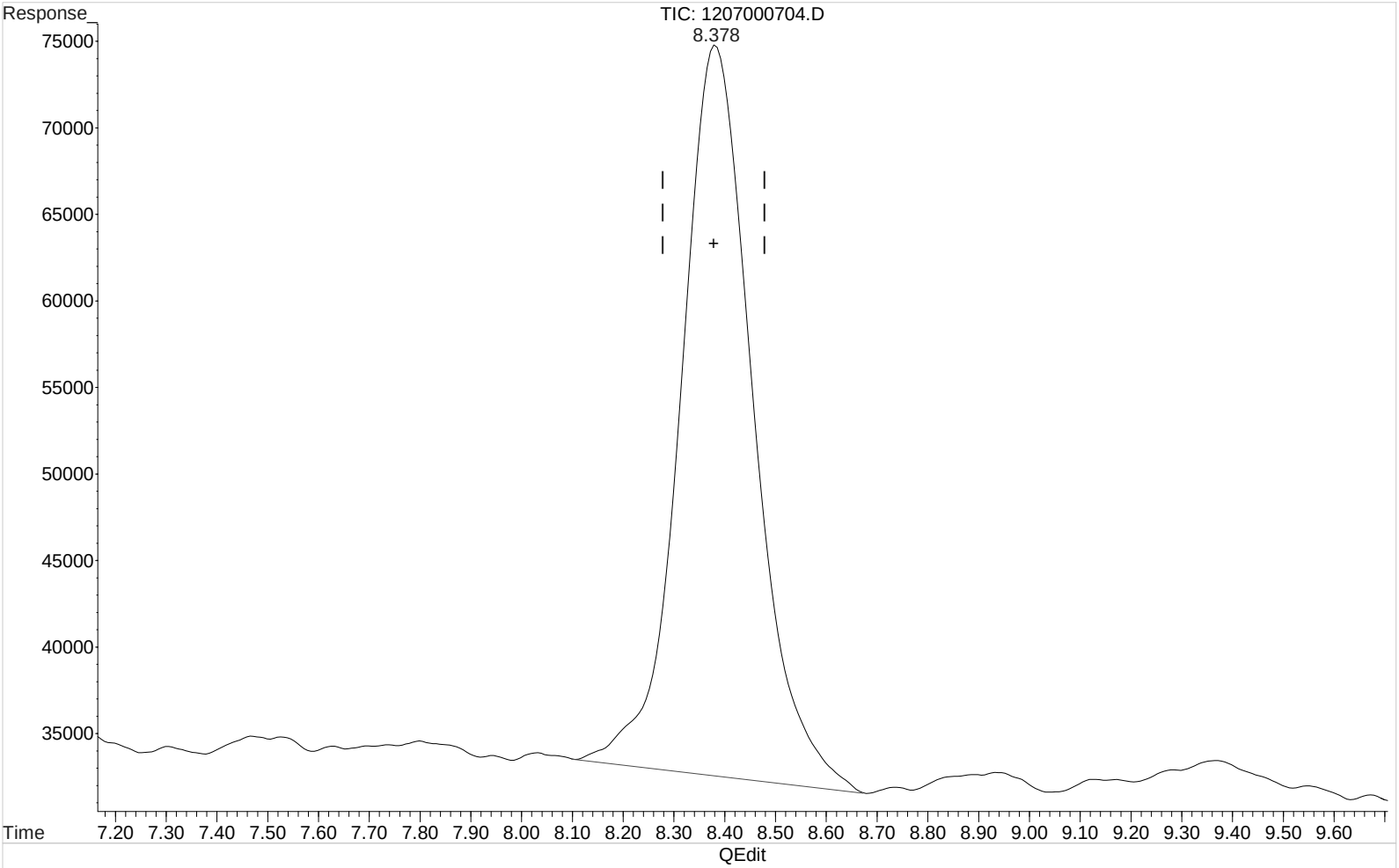
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(4) RDX (T)

8.378min 0.000 ug/L m

response 420328

Manual Integration:

After

BLC

12/08/16

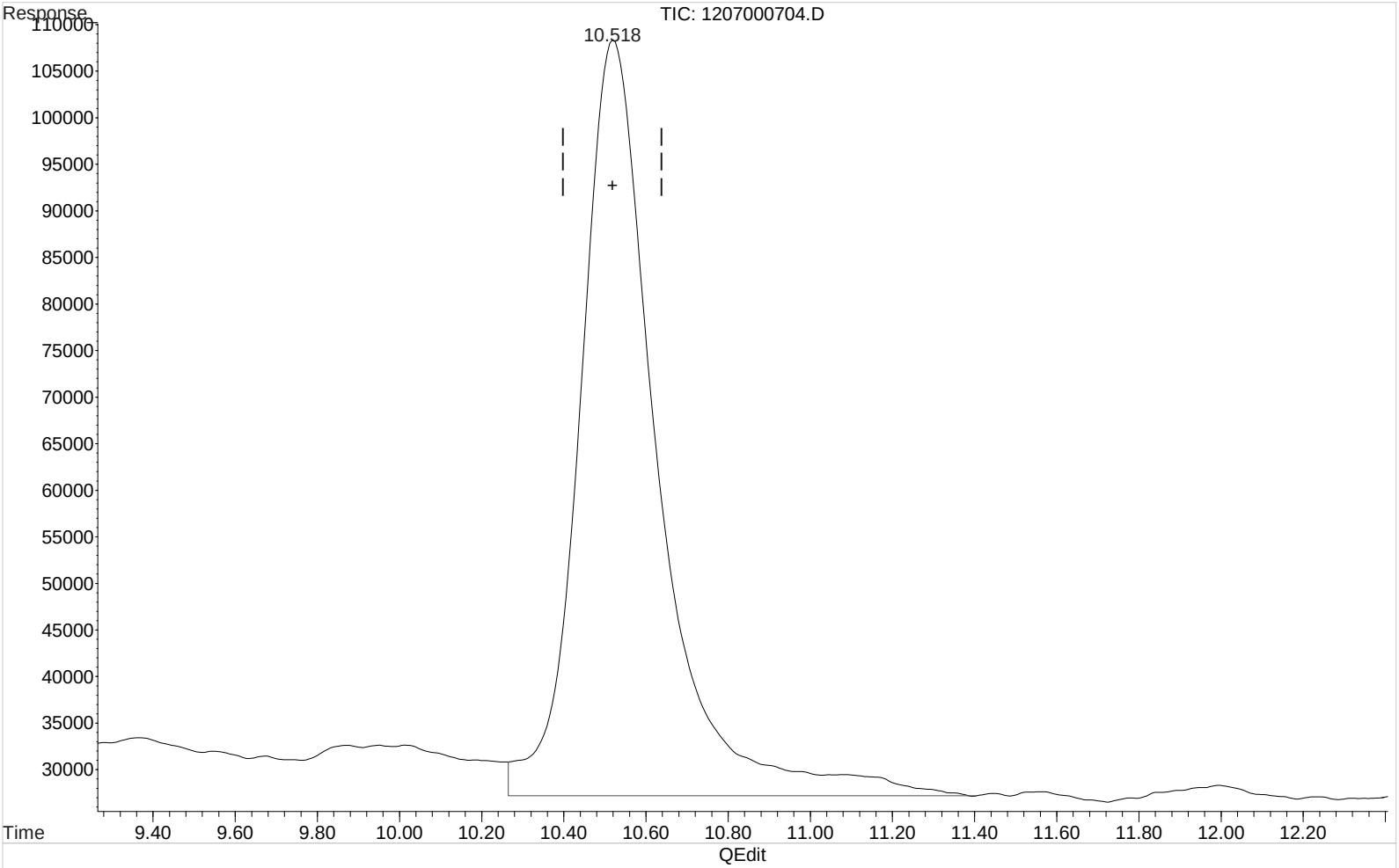
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(5) 1,3,5-TNB (T)

10.518min 0.000 ug/L

response 1075873

Manual Integration:

Before

12/08/16

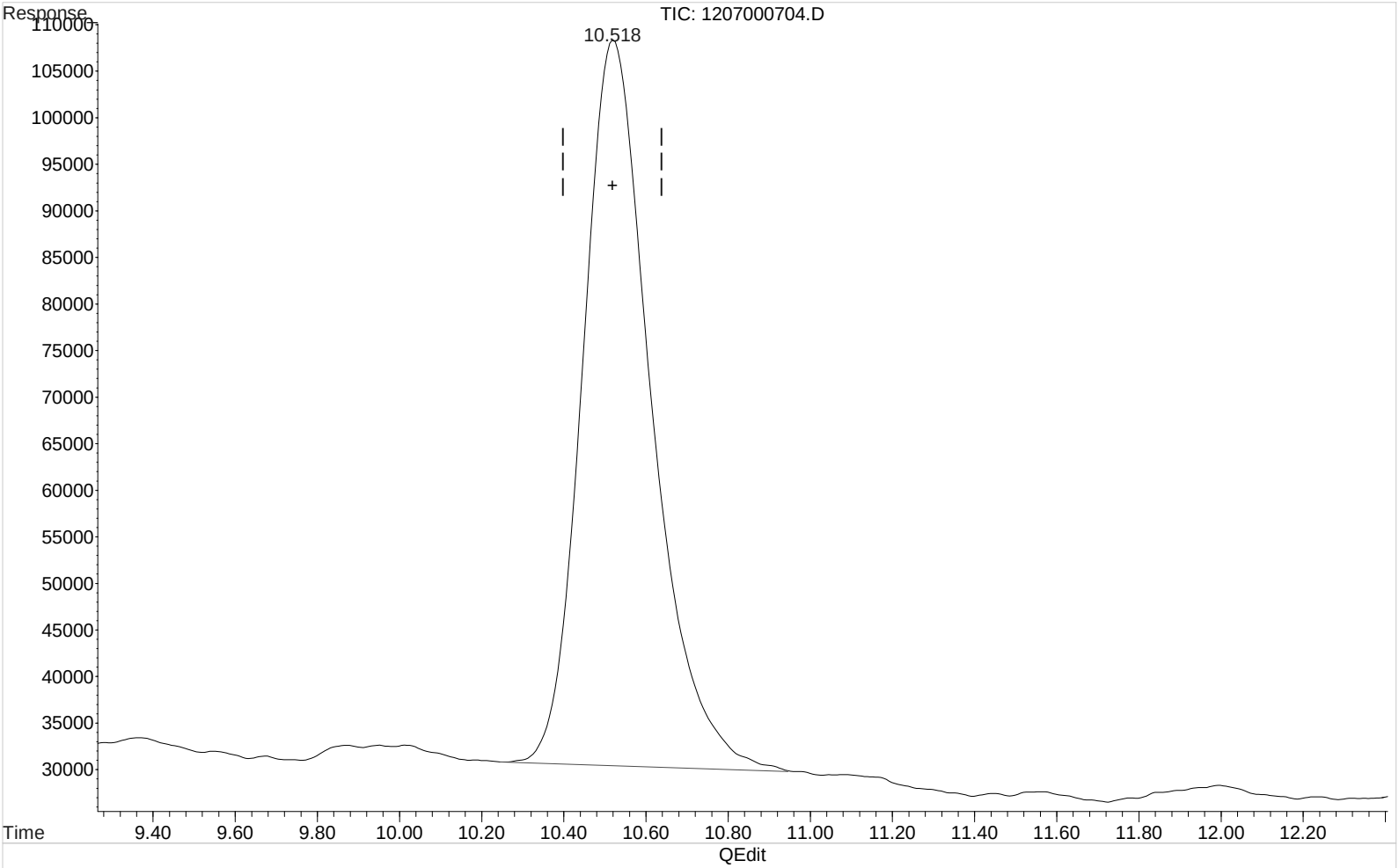
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(5) 1,3,5-TNB (T)

10.518min 0.000 ug/L m

response 908690

Manual Integration:

After

BLC

12/08/16

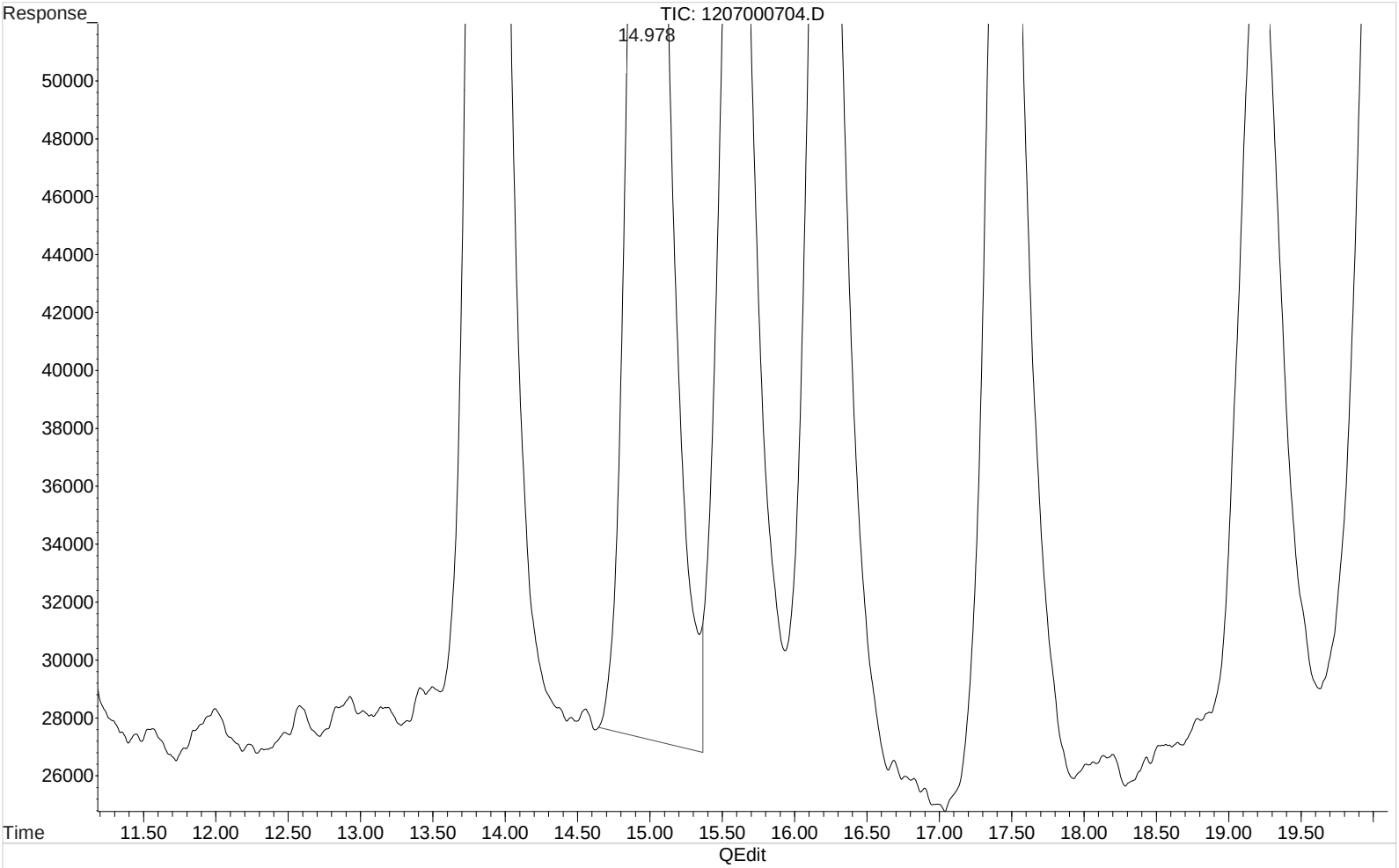
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.978min 0.000 ug/L

response 975452

Manual Integration:

Before

12/08/16

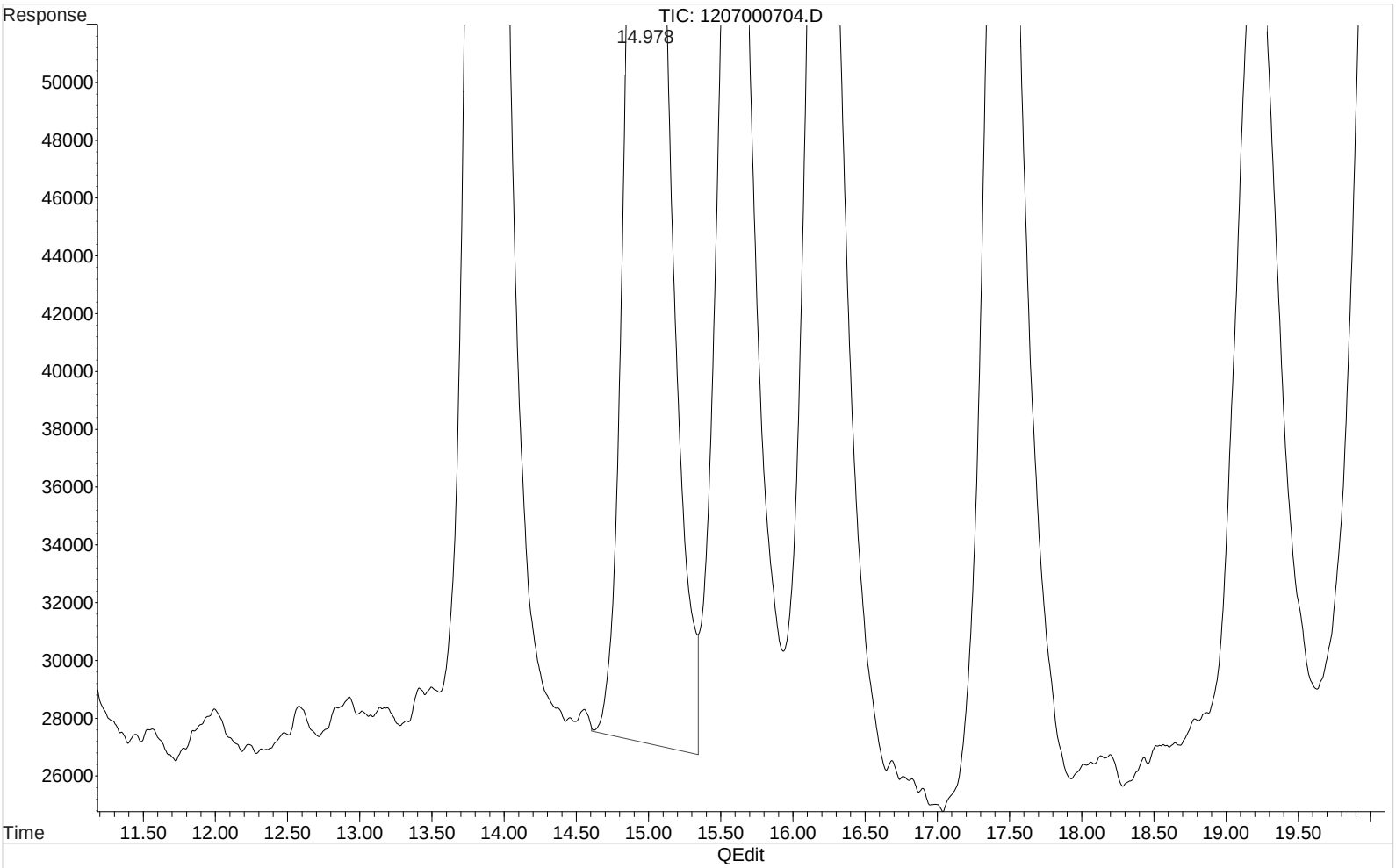
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.978min 0.000 ug/L m

response 975768

Manual Integration:

After

BLC

12/08/16

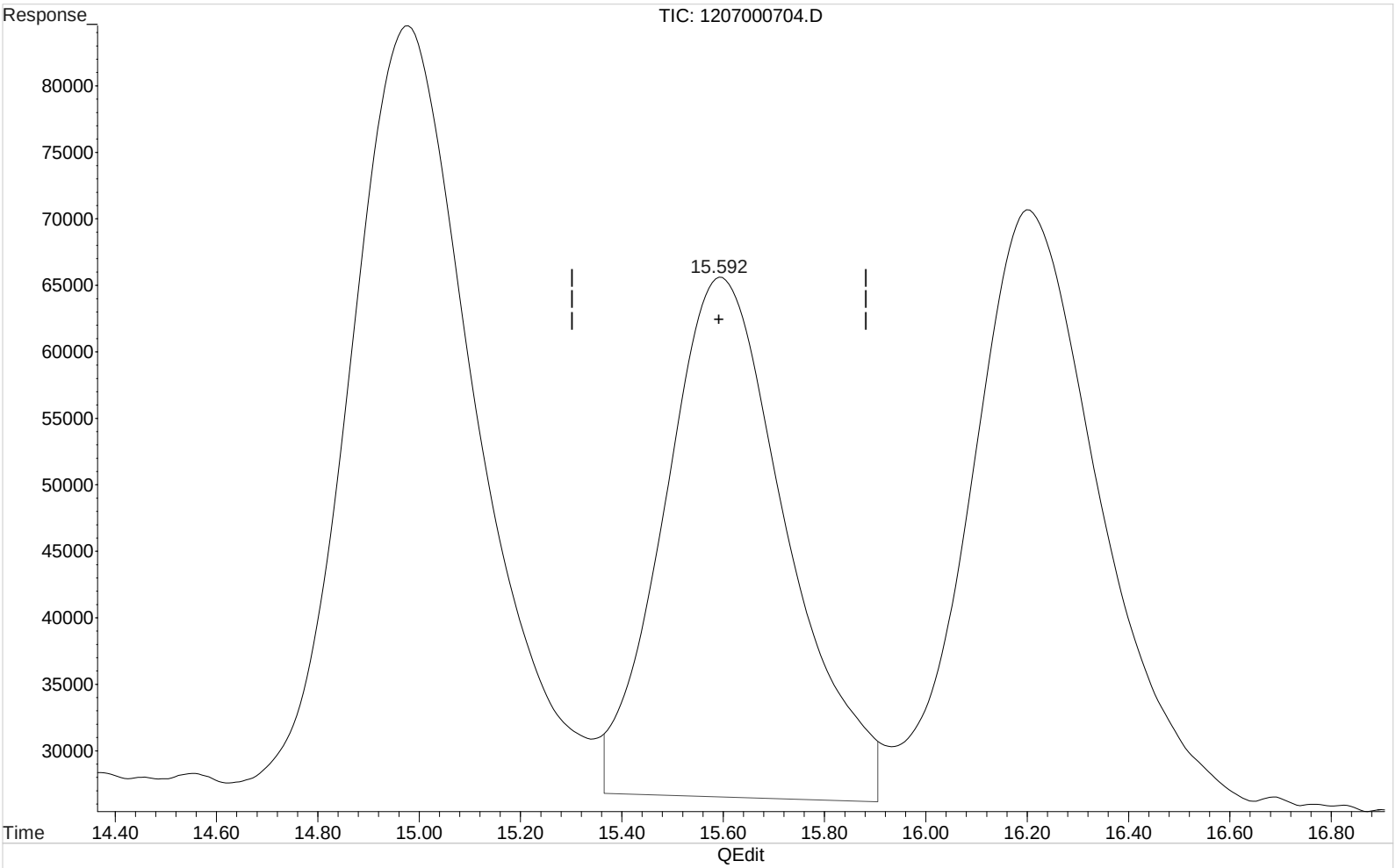
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.592min 0.000 ug/L

response 653235

Manual Integration:

Before

12/08/16

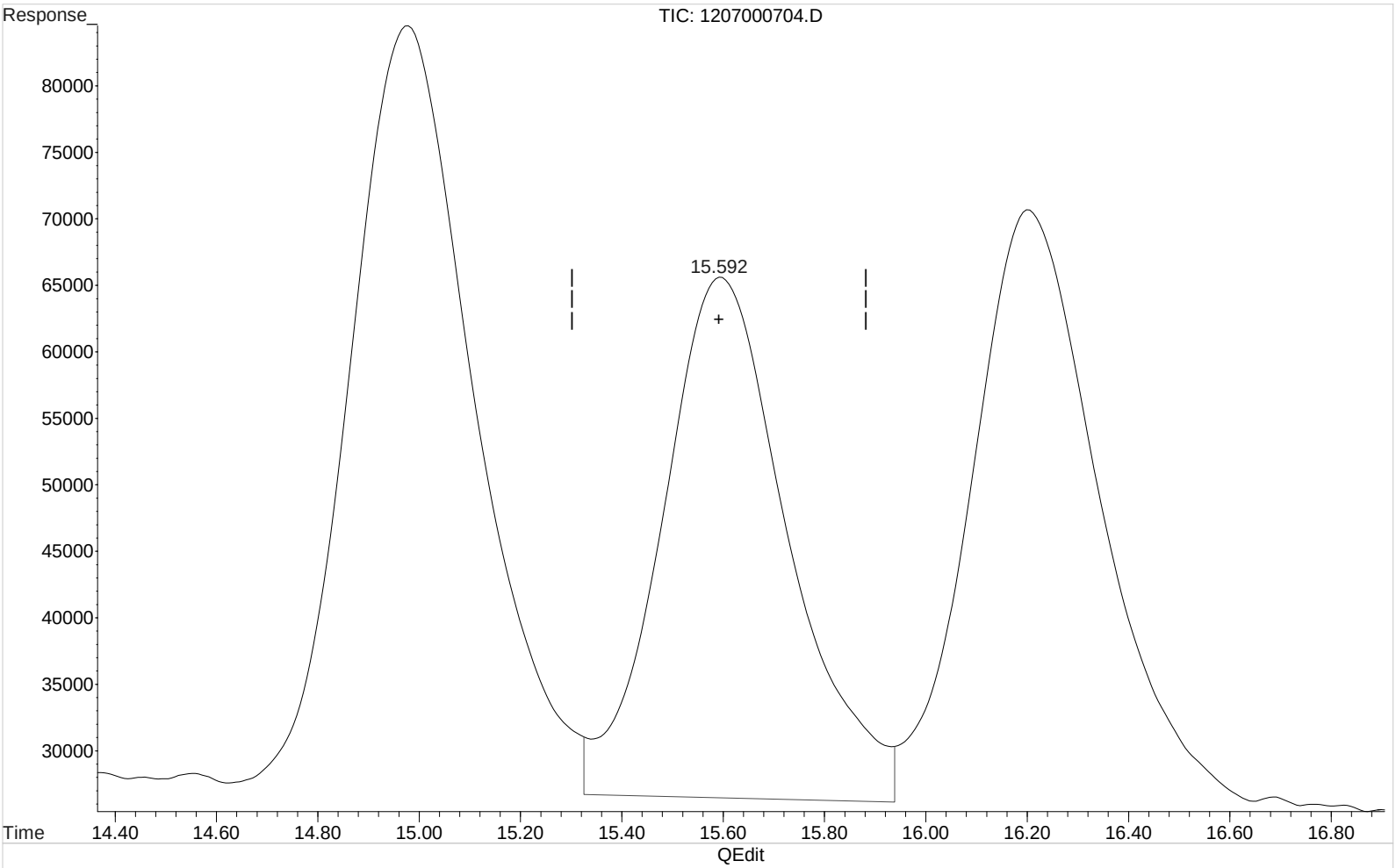
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.592min 0.000 ug/L m

response 673809

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)

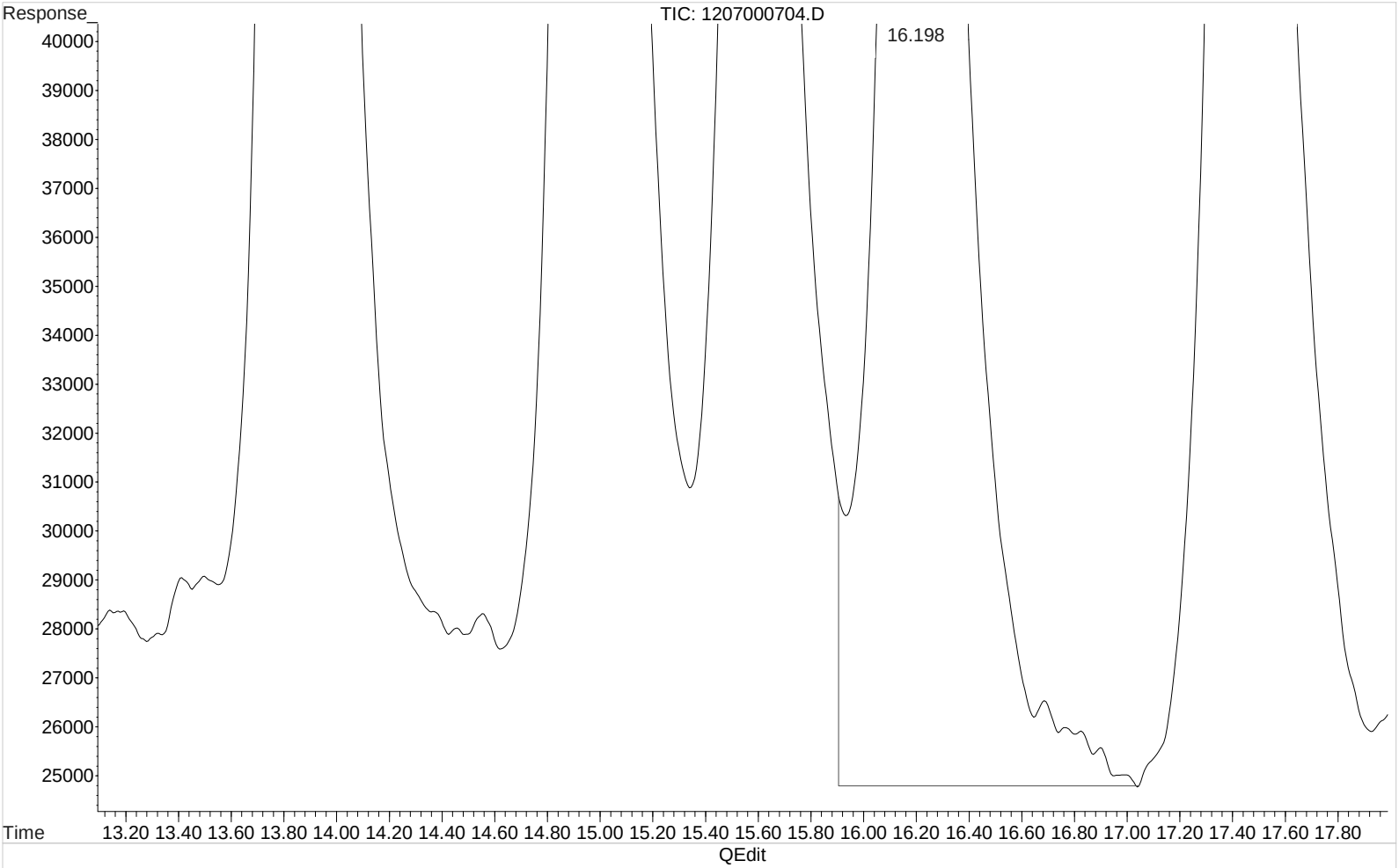
/08/16

/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(9) Nitrobenzene (T)

16.198min 0.000 ug/L

response 865148

Manual Integration:

Before

12/08/16

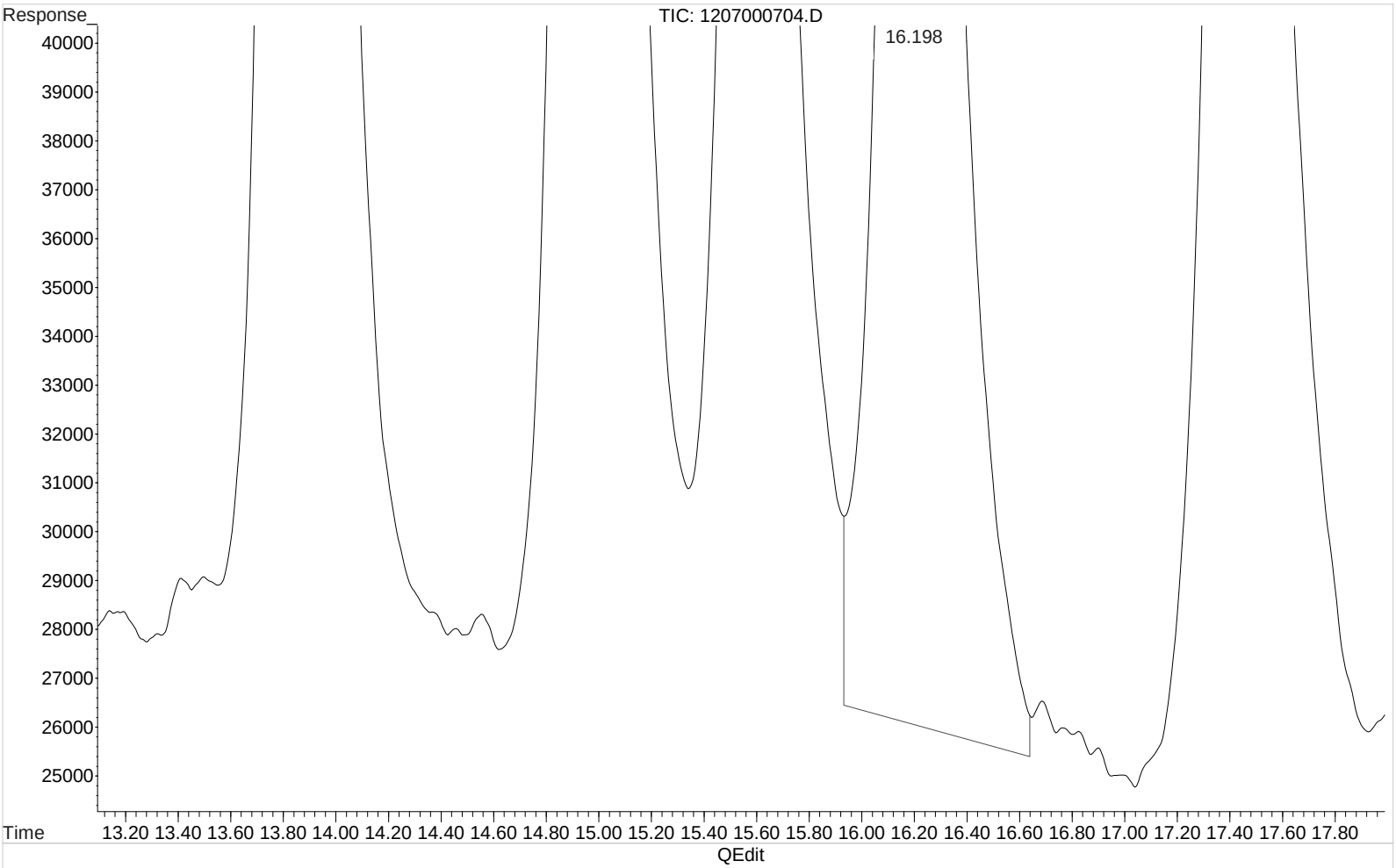
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(9) Nitrobenzene (T)

16.198min 0.000 ug/L m

response 787874

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:09 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
18)	S	1-Chloro-3-Nitrobenzene	29.700	1102787	47.809	ug/L	m
		Target Compounds					
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	4.787	592400	50.916	ug/L	m
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	8.380	978940	46.580	ug/L	m
5)	T	1,3,5-TNB	10.520	2272781	50.023	ug/L	
6)	T	1,3-DNB	13.860	3069012	48.773	ug/L	m
7)	T	3,5-Dinitroaniline	14.967	2382128	48.826	ug/L	m
8)	T	Tetryl	15.587	1676426	49.760	ug/L	m
9)	T	Nitrobenzene	16.200	1950750	49.519	ug/L	m
10)	T	2,4,6-TNT	17.447	2100866	52.688	ug/L	m
11)	T	4-Amino-2,6-DNT	19.200	1535717	57.134	ug/L	m
12)	T	2-Amino-4,6-DNT	20.034	2085917	43.852	ug/L	m
13)	T	2,6-DNT	21.760	1280625	NoCal	ug/L	m
14)	T	2,4-DNT	22.214	2955148	51.322	ug/L	m
15)	T	2-NT	25.327	912402	52.158	ug/L	m
16)	T	4-NT	26.254	806643	50.422	ug/L	m
17)	T	3-NT	27.380	982059	47.770	ug/L	m

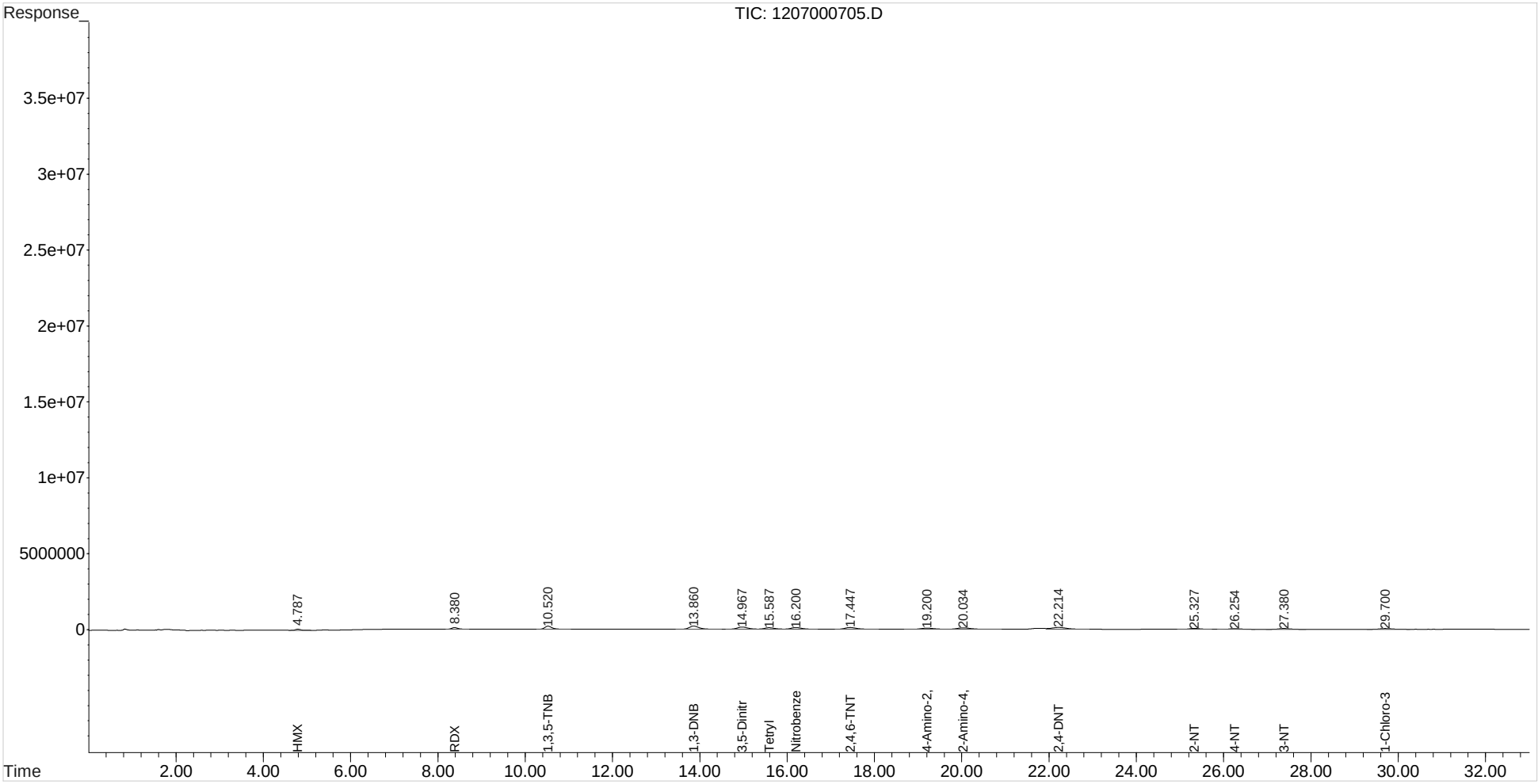
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:09 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

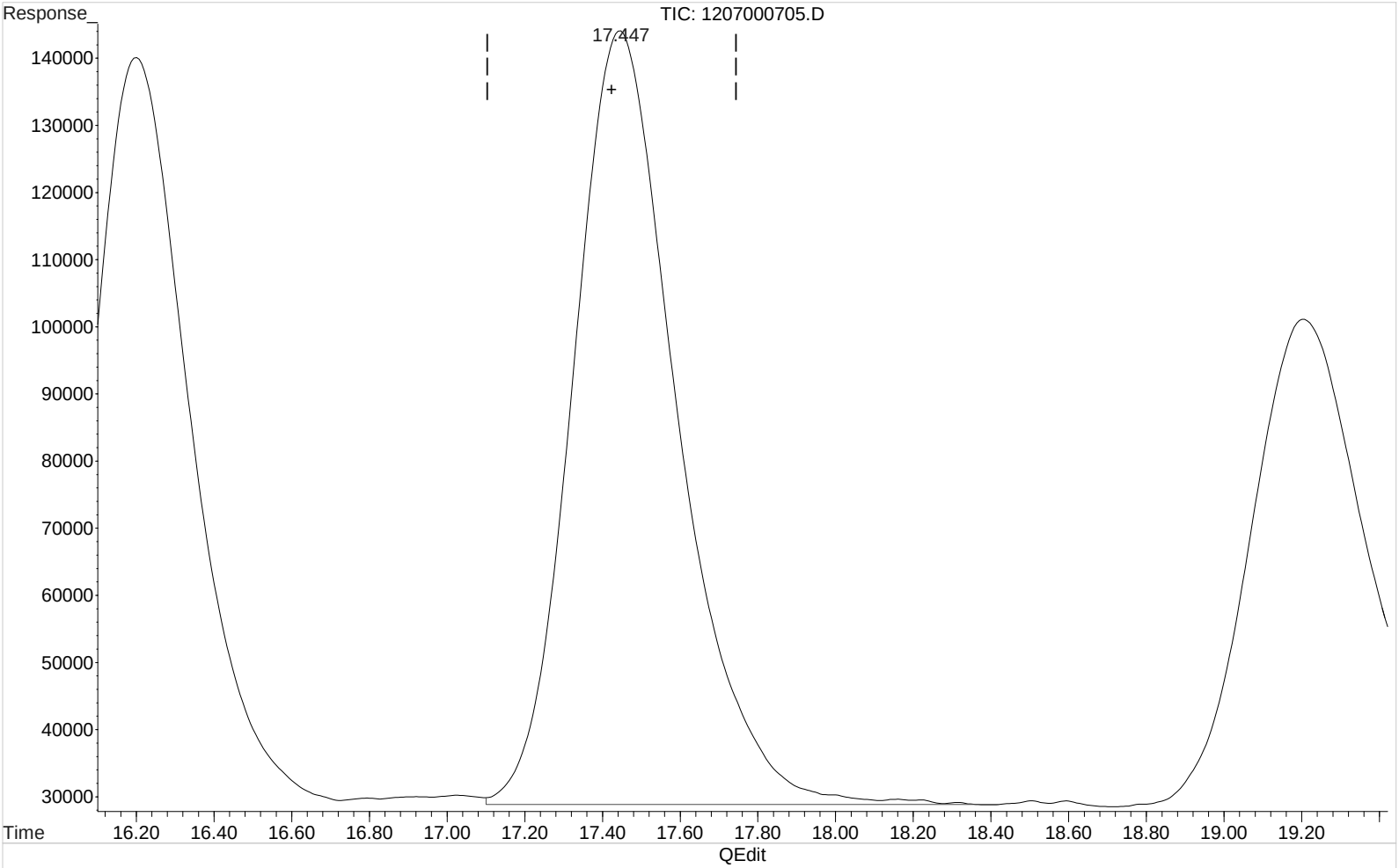


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(10) 2,4,6-TNT (T)

17.447min 54.187 ug/L

response 2160666

Manual Integration:

Before

12/08/16

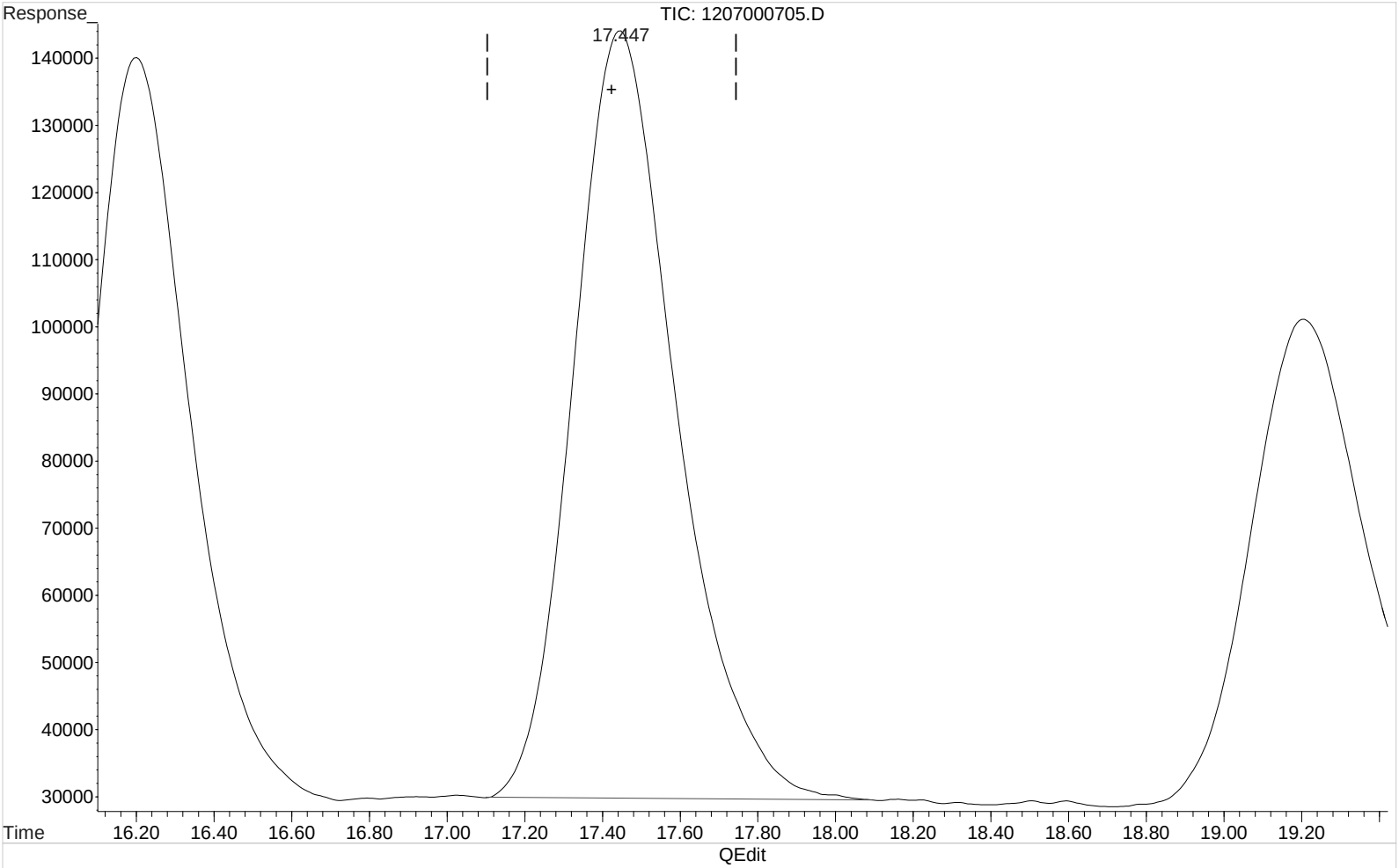
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(10) 2,4,6-TNT (T)

17.447min 52.688 ug/L m

response 2100866

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)

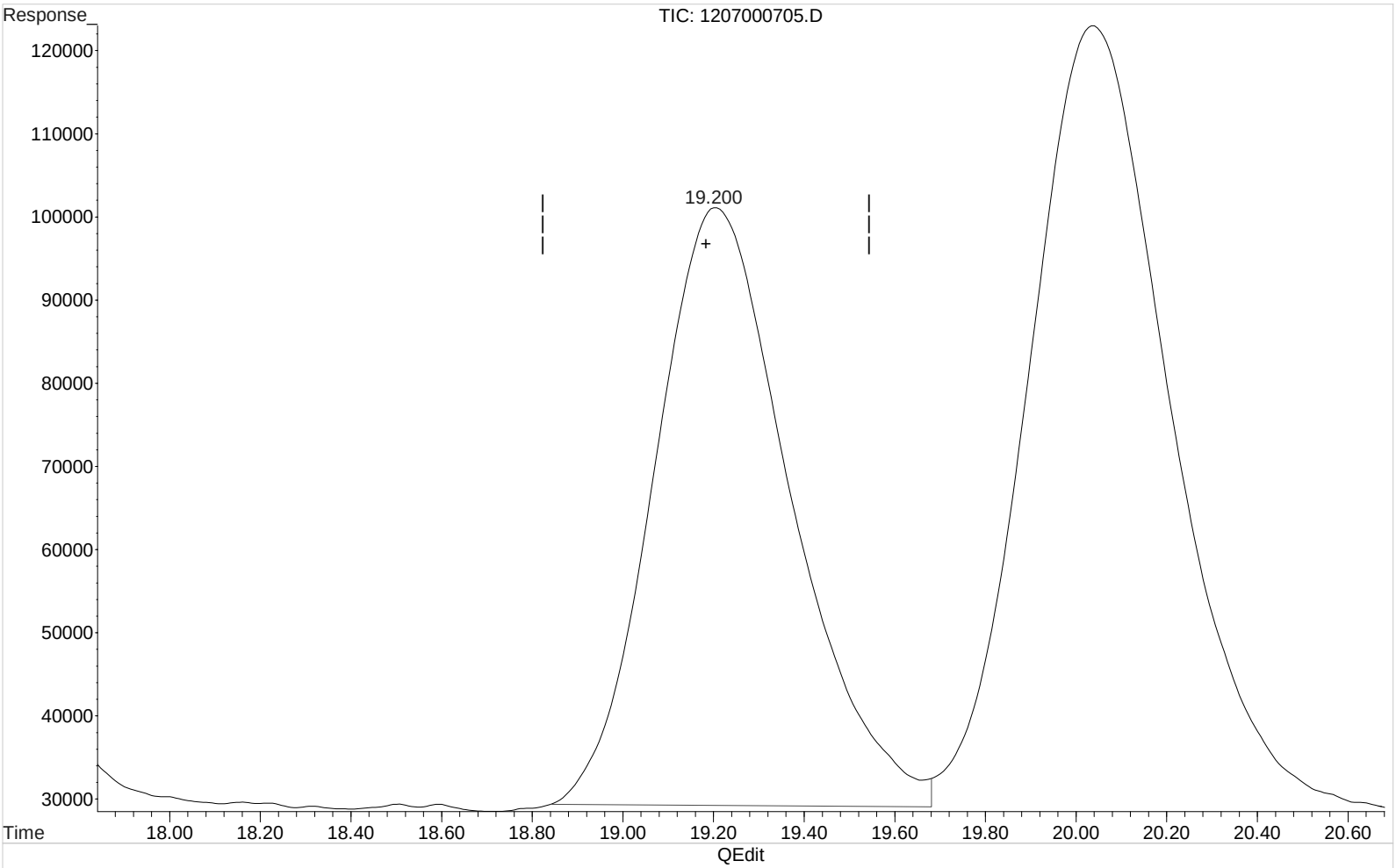
/08/16

/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(11) 4-Amino-2,6-DNT (T)

19.200min 55.799 ug/L

response 1499828

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
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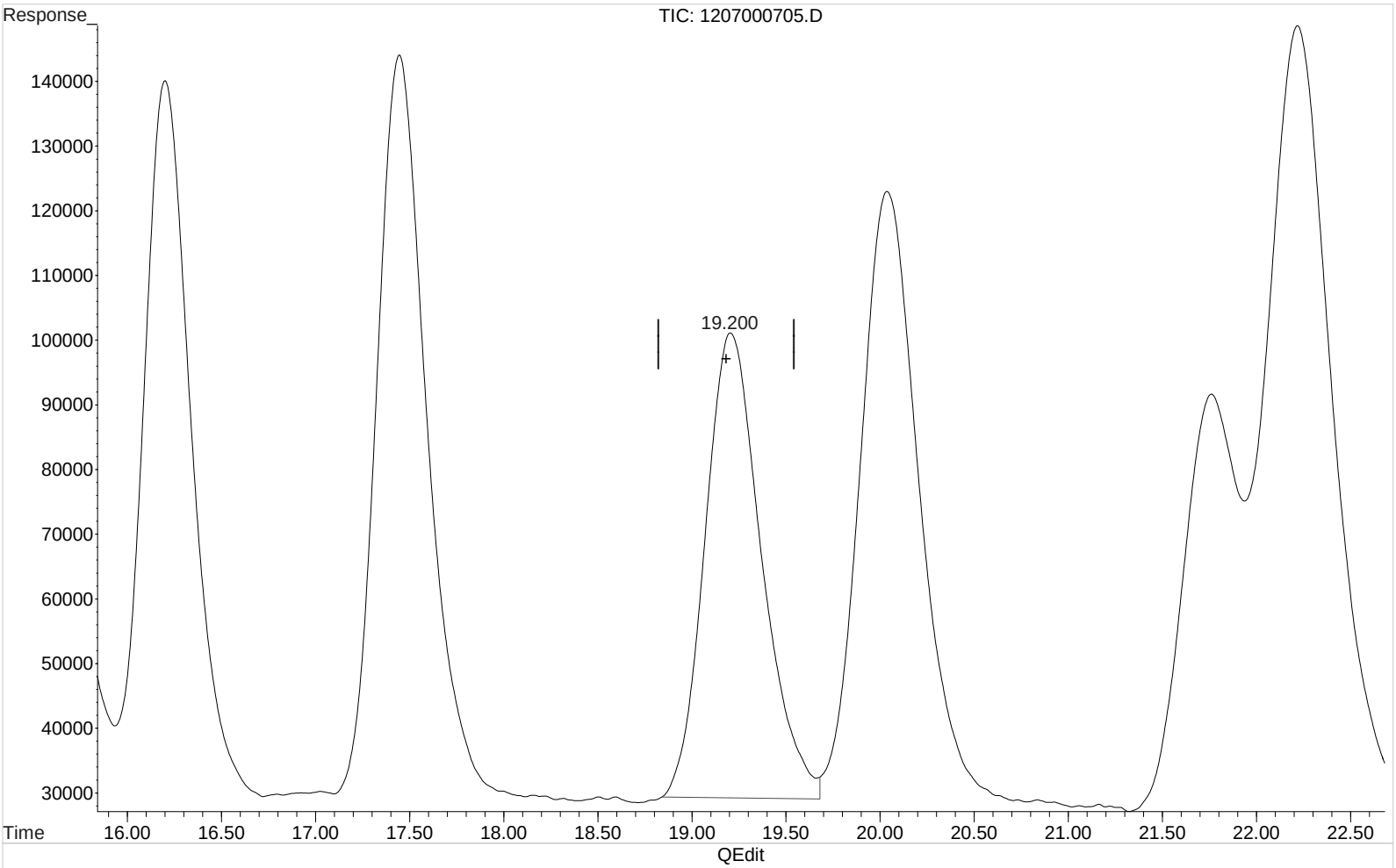
Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(11) 4-Amino-2,6-DNT (T)

19.200min 55.799 ug/L

response 1499828

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
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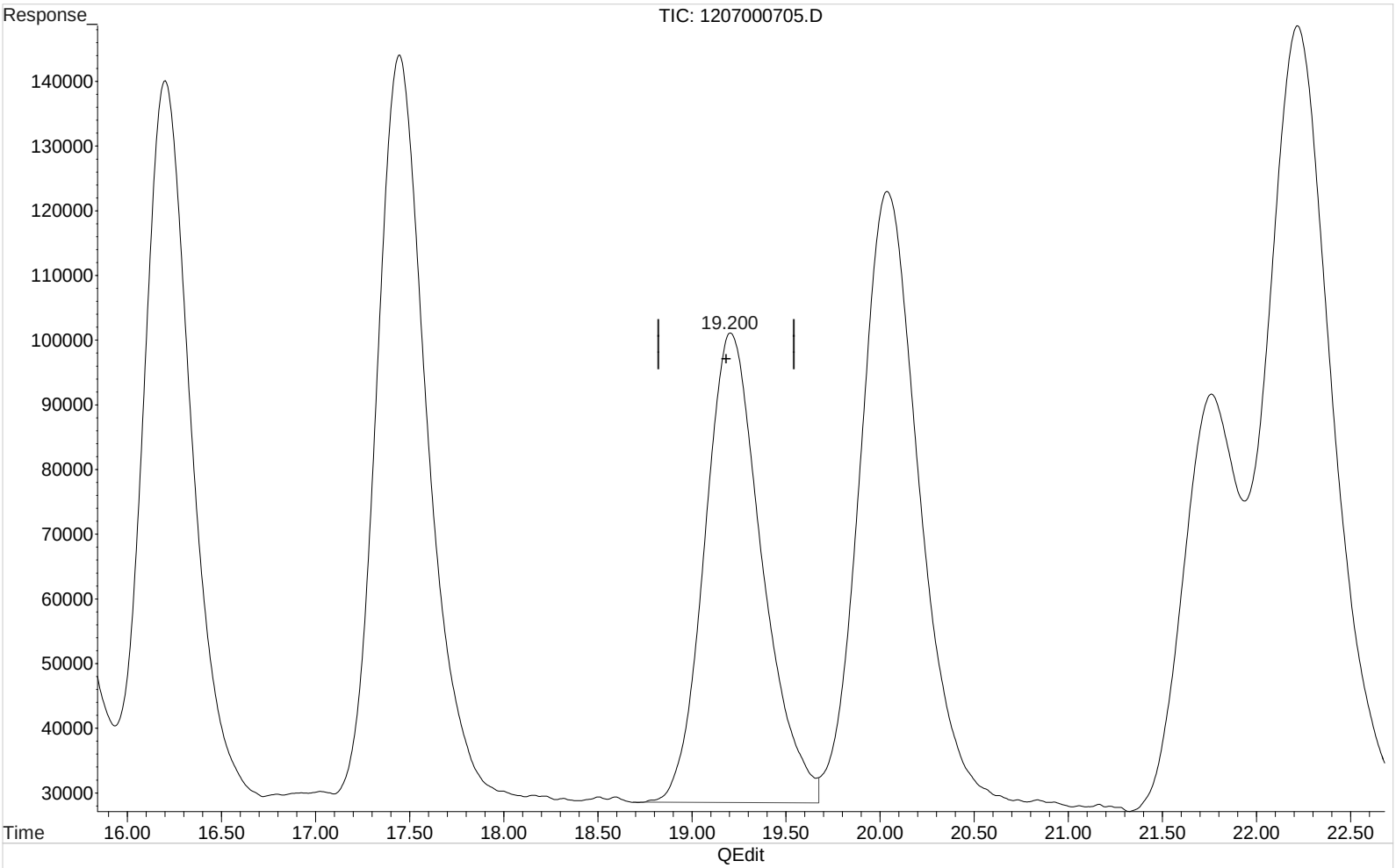
Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(11) 4-Amino-2,6-DNT (T)

19.200min 57.134 ug/L m

response 1535717

Manual Integration:

After

BLC

12/08/16

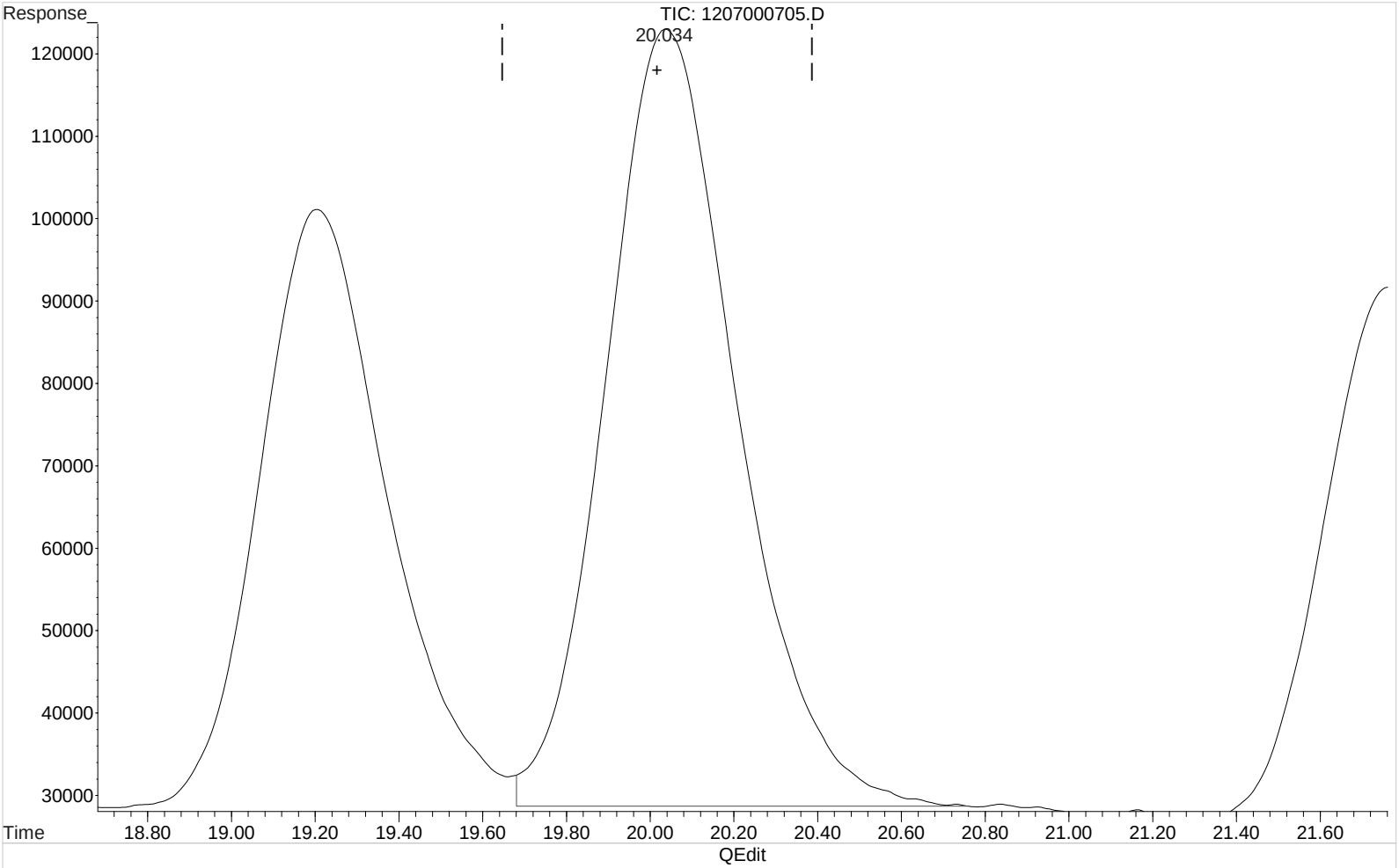
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(12) 2-Amino-4,6-DNT (T)

20.034min 43.047 ug/L

response 2047627

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

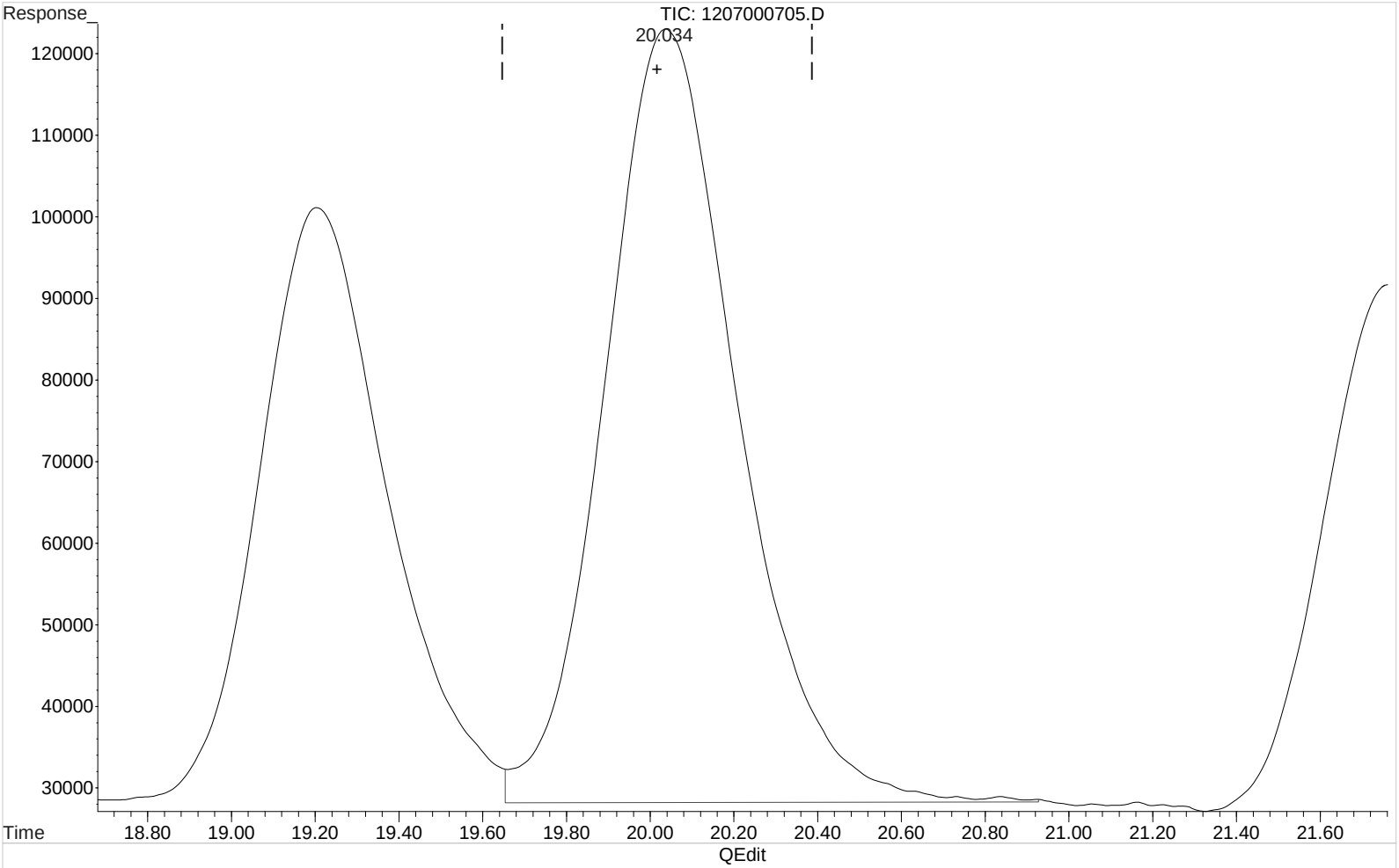
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(12) 2-Amino-4,6-DNT (T)

20.034min 43.890 ug/L m

response 2087710

Manual Integration:

Before

12/08/16

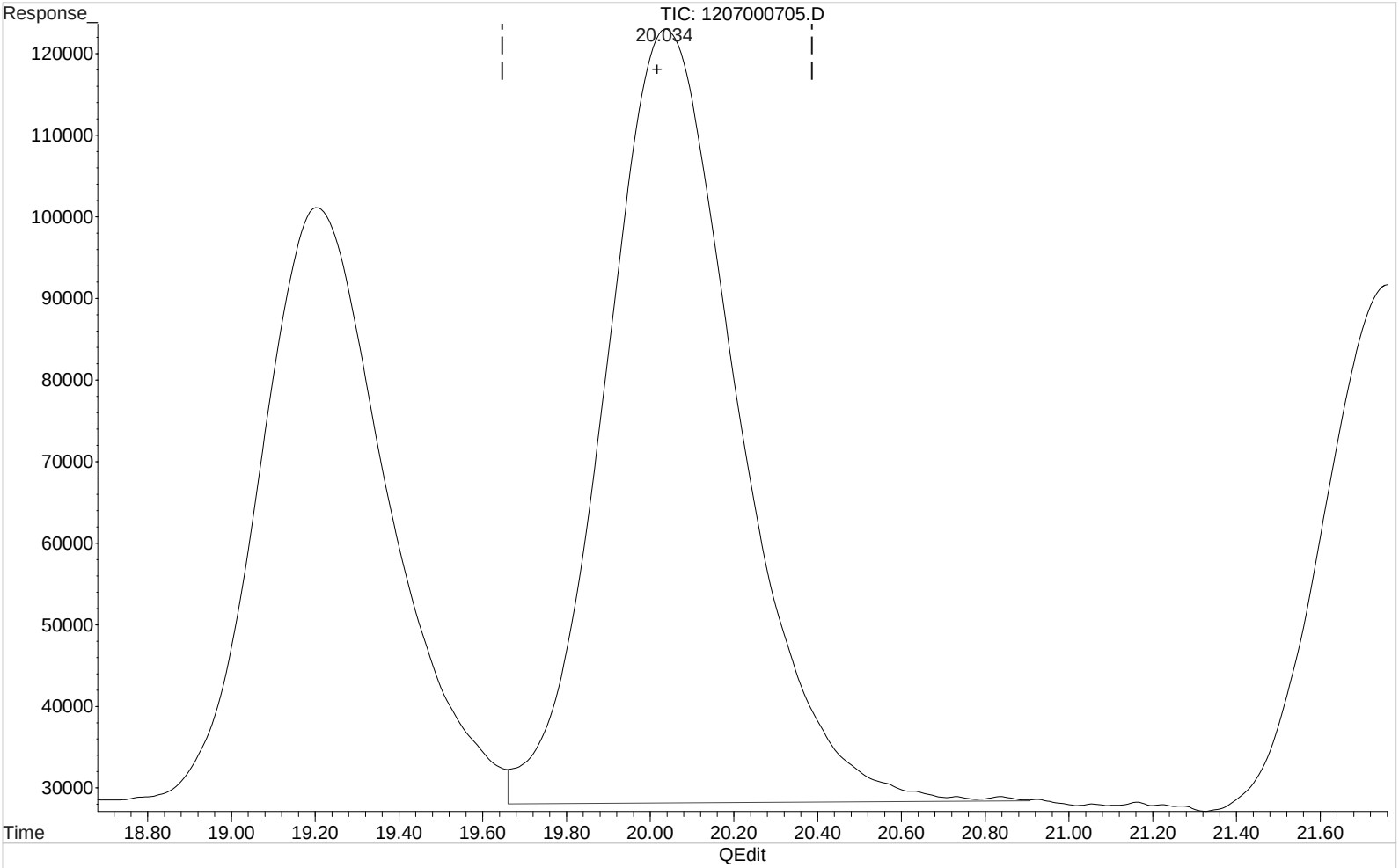
(+) = Expected Retention Time

(b) (6)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(12) 2-Amino-4,6-DNT (T)

20.034min 43.852 ug/L m

response 2085917

Manual Integration:

After

BLC

12/08/16

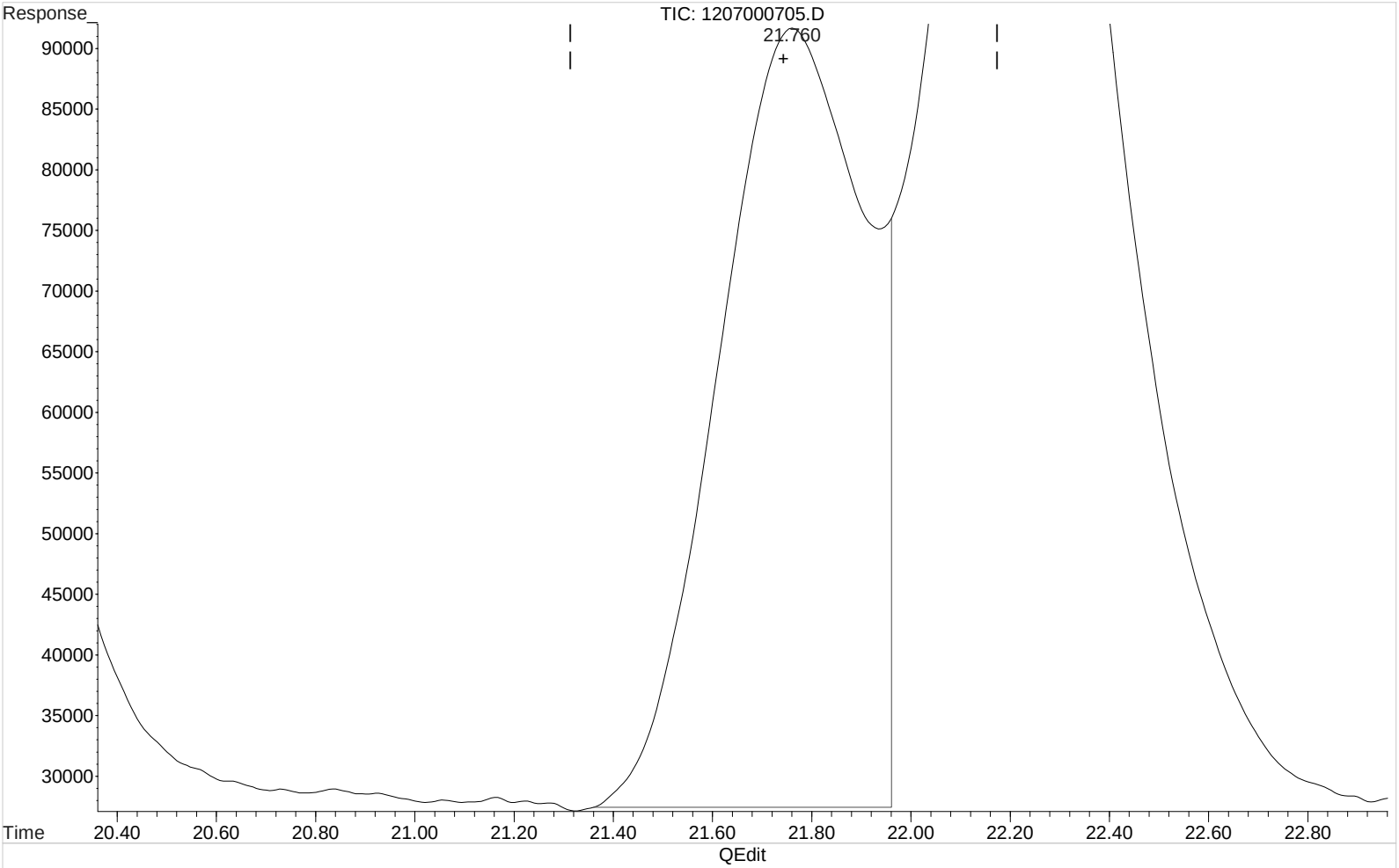
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.760min 0.000 ug/L

response 1327592

Manual Integration:

Before

12/08/16

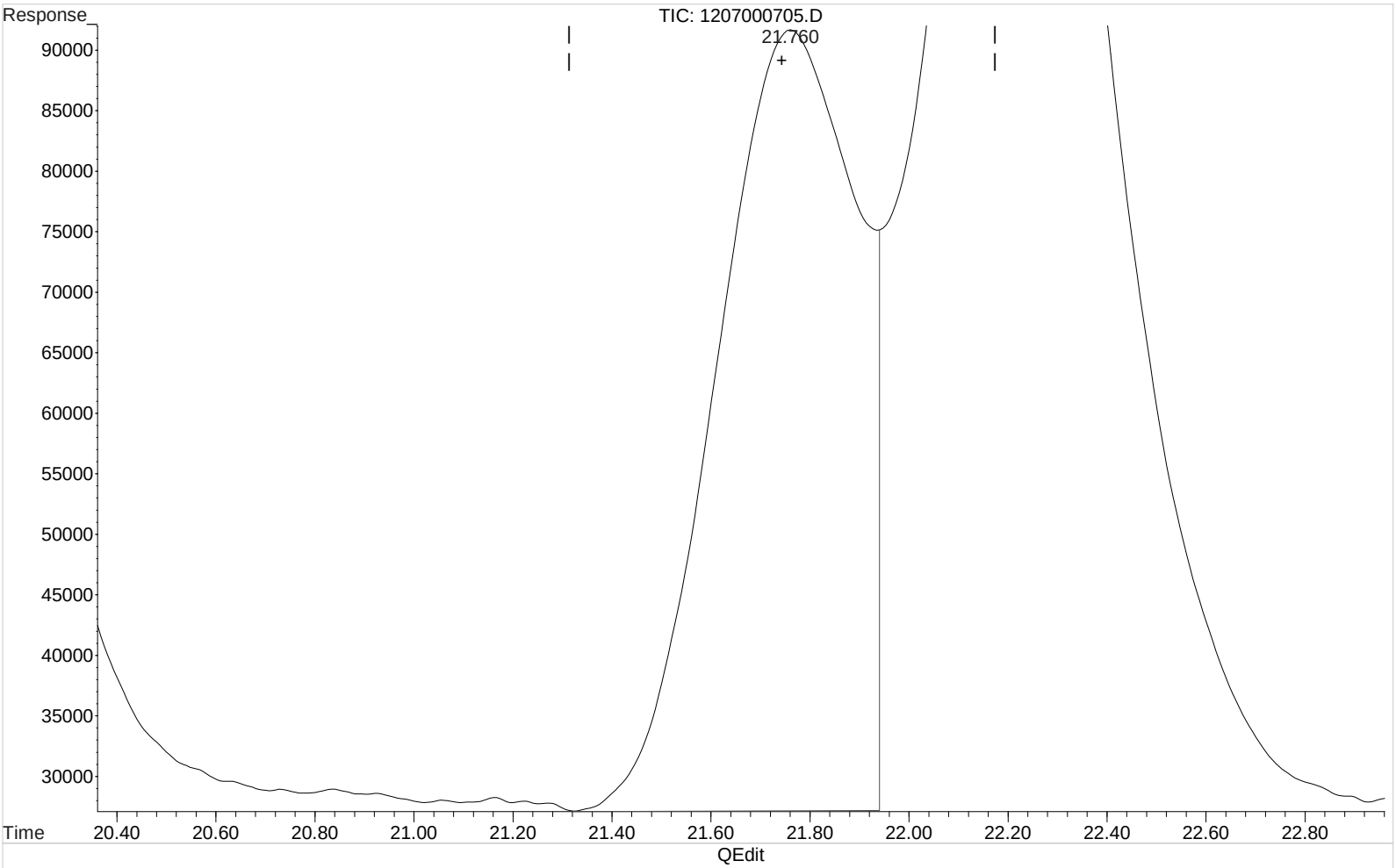
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.760min 0.000 ug/L m

response 1280625

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)

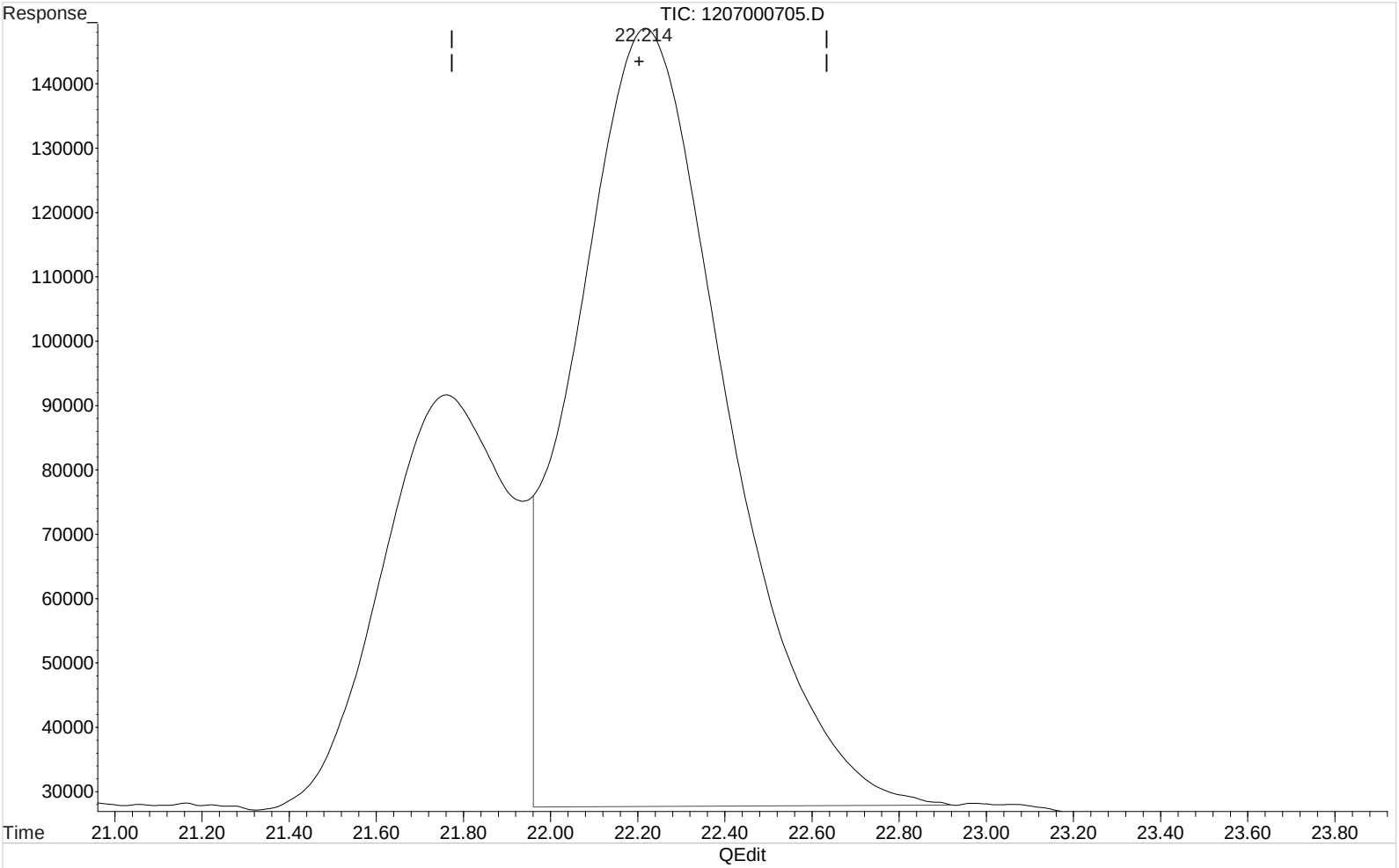
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.214min 50.242 ug/L

response 2892987

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

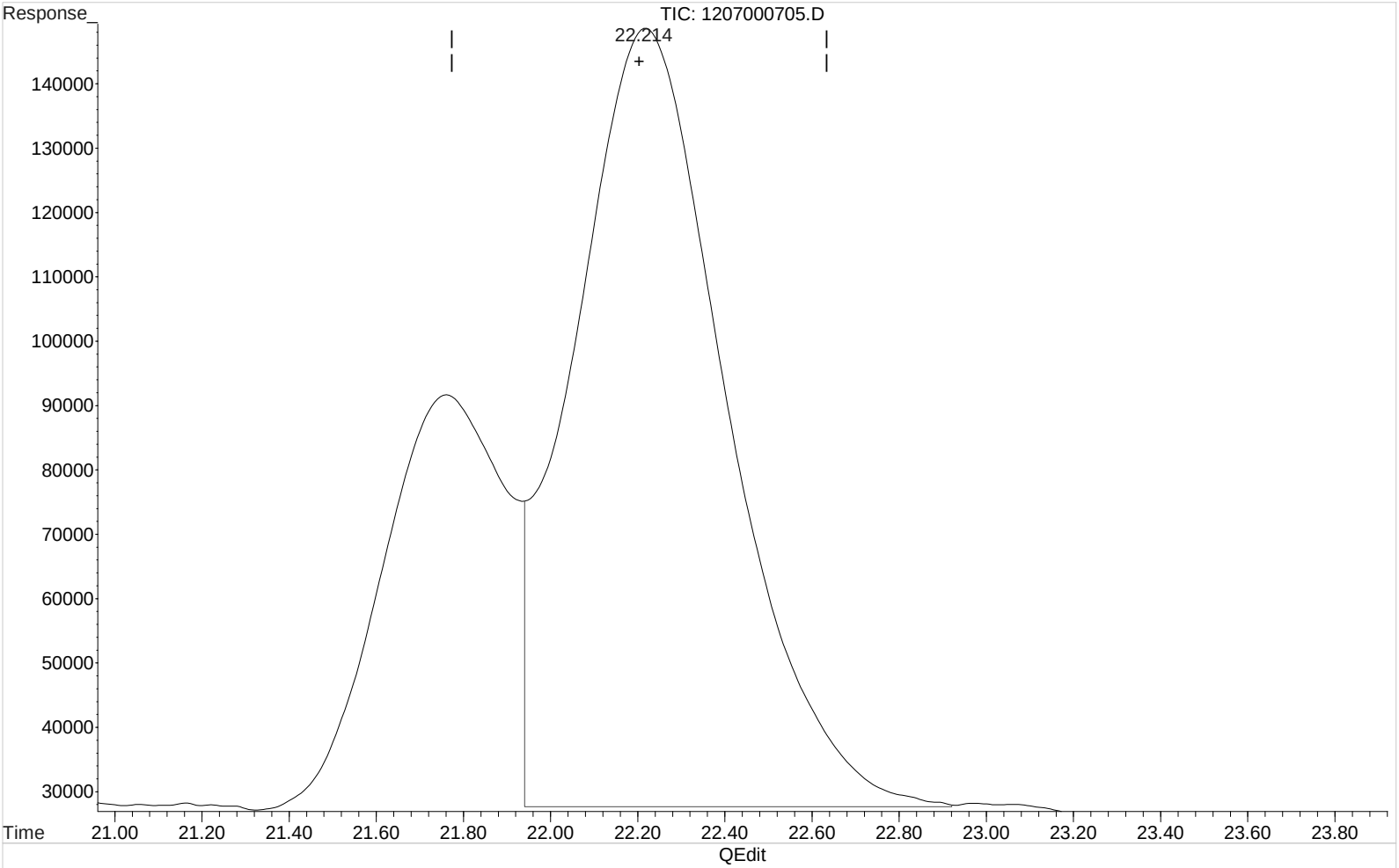
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.214min 51.322 ug/L m

response 2955148

Manual Integration:

After

BLC

12/08/16

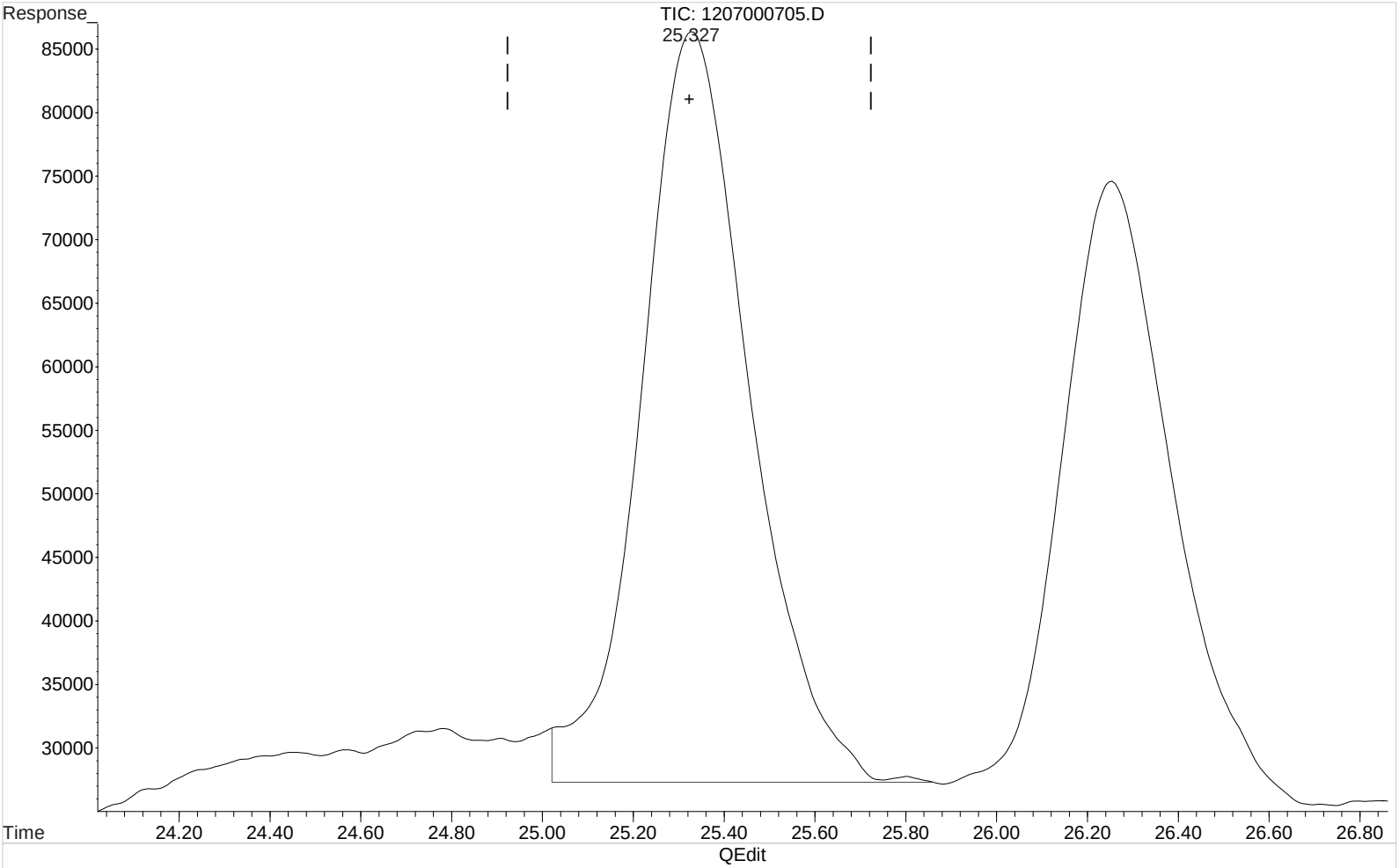
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.327min 56.083 ug/L

response 981052

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

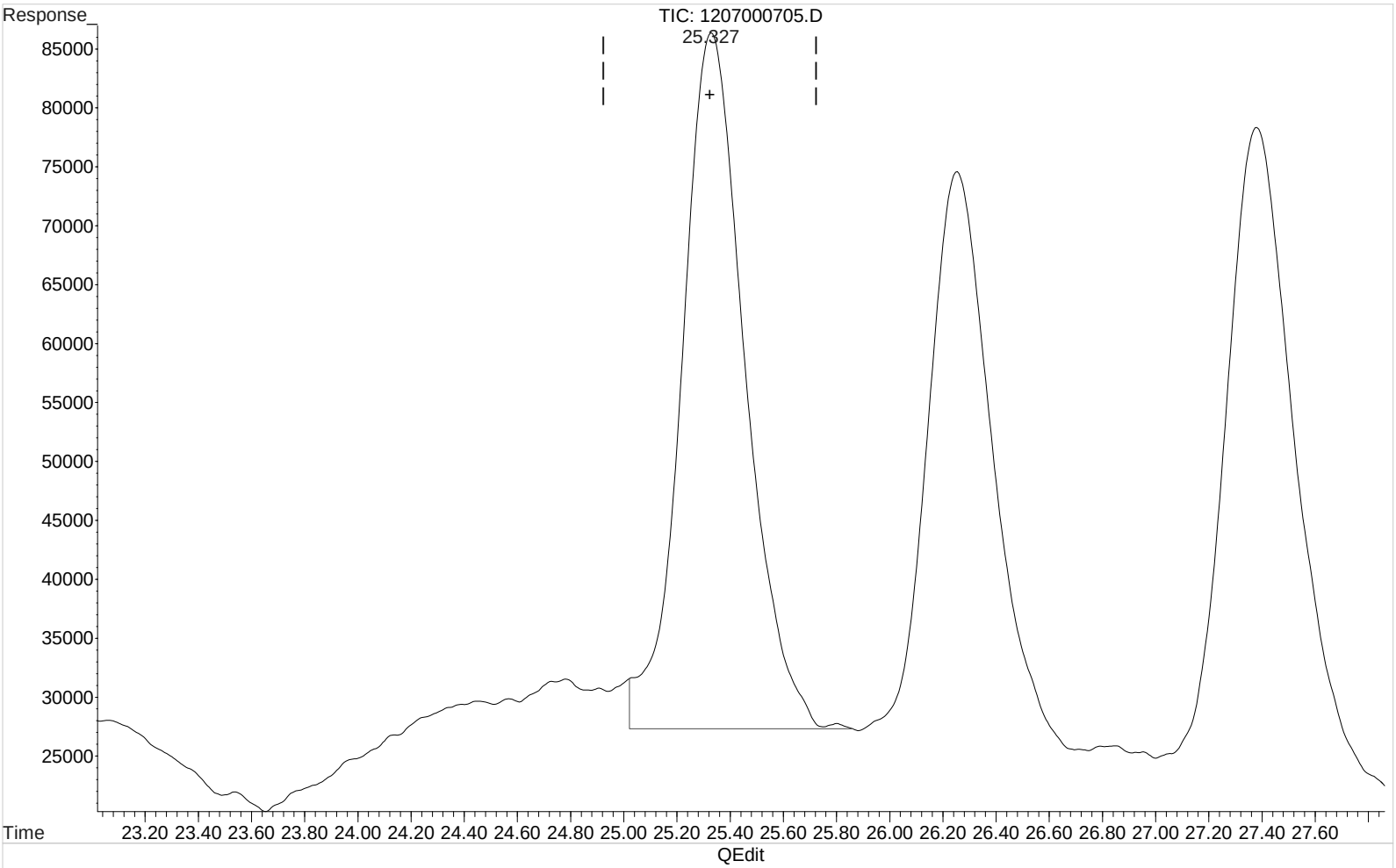
2/08/16

2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.327min 56.083 ug/L

response 981052

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

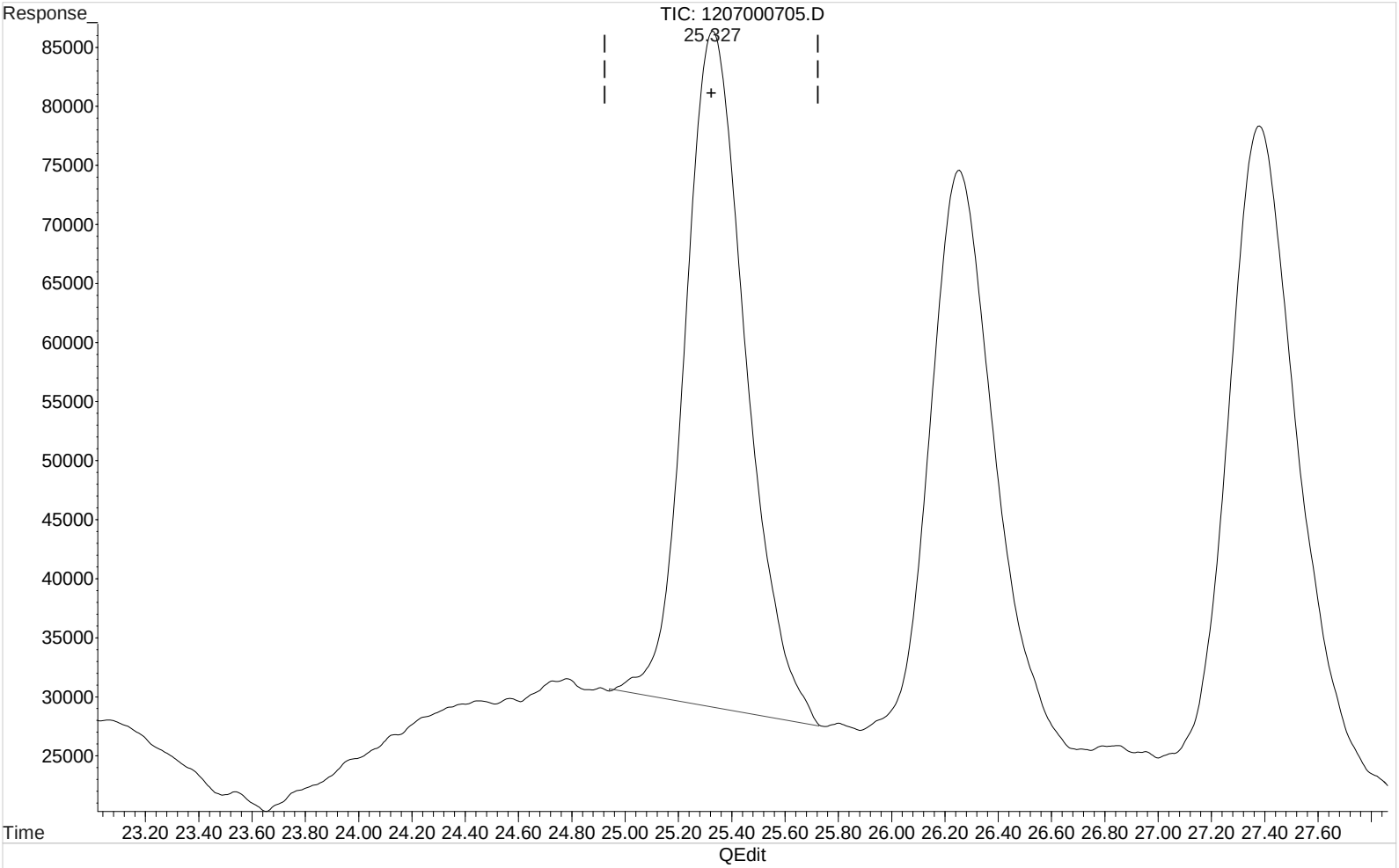
/08/16

/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.327min 52.158 ug/L m

response 912402

Manual Integration:

After

BLC

12/08/16

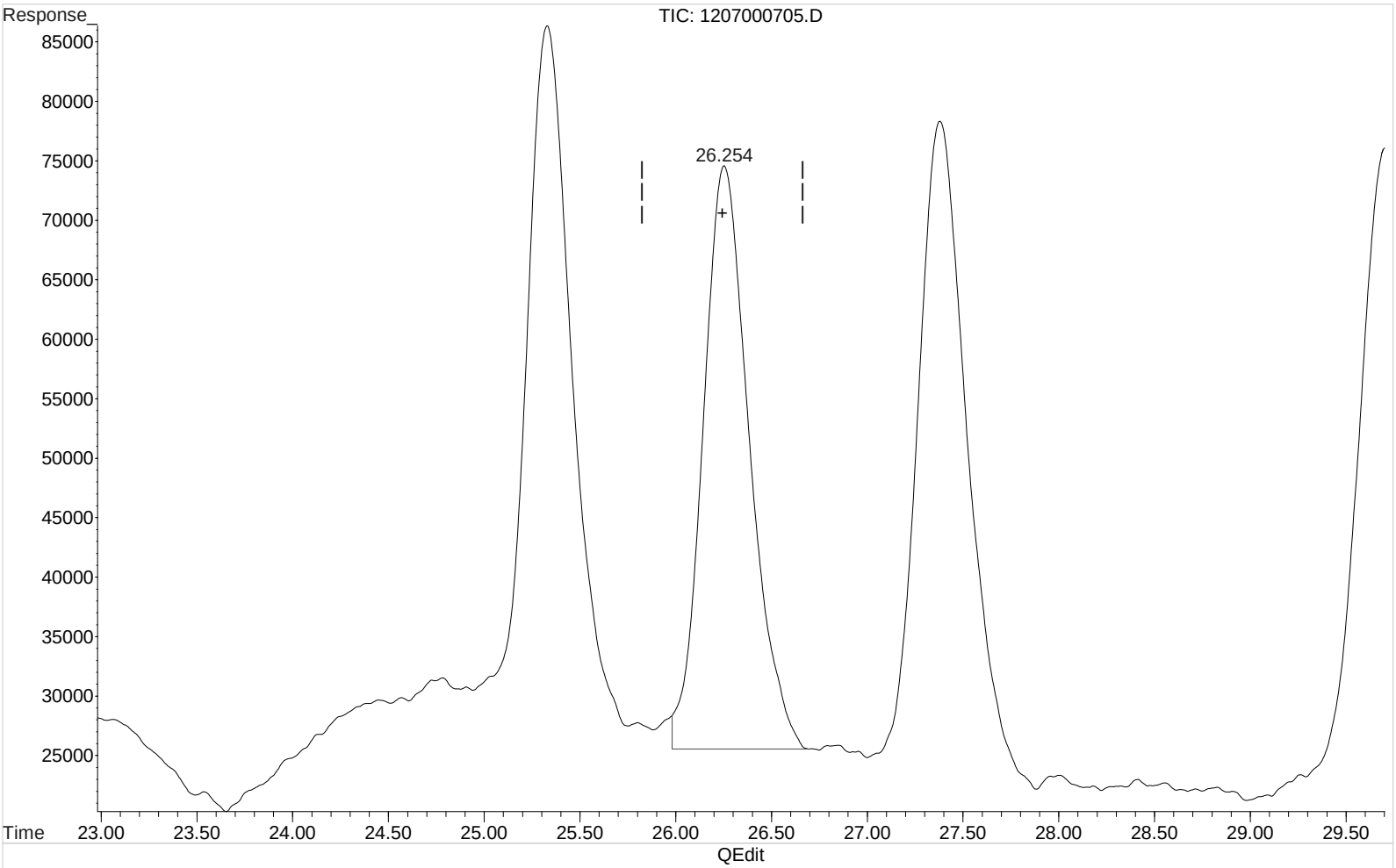
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.254min 51.817 ug/L

response 828954

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

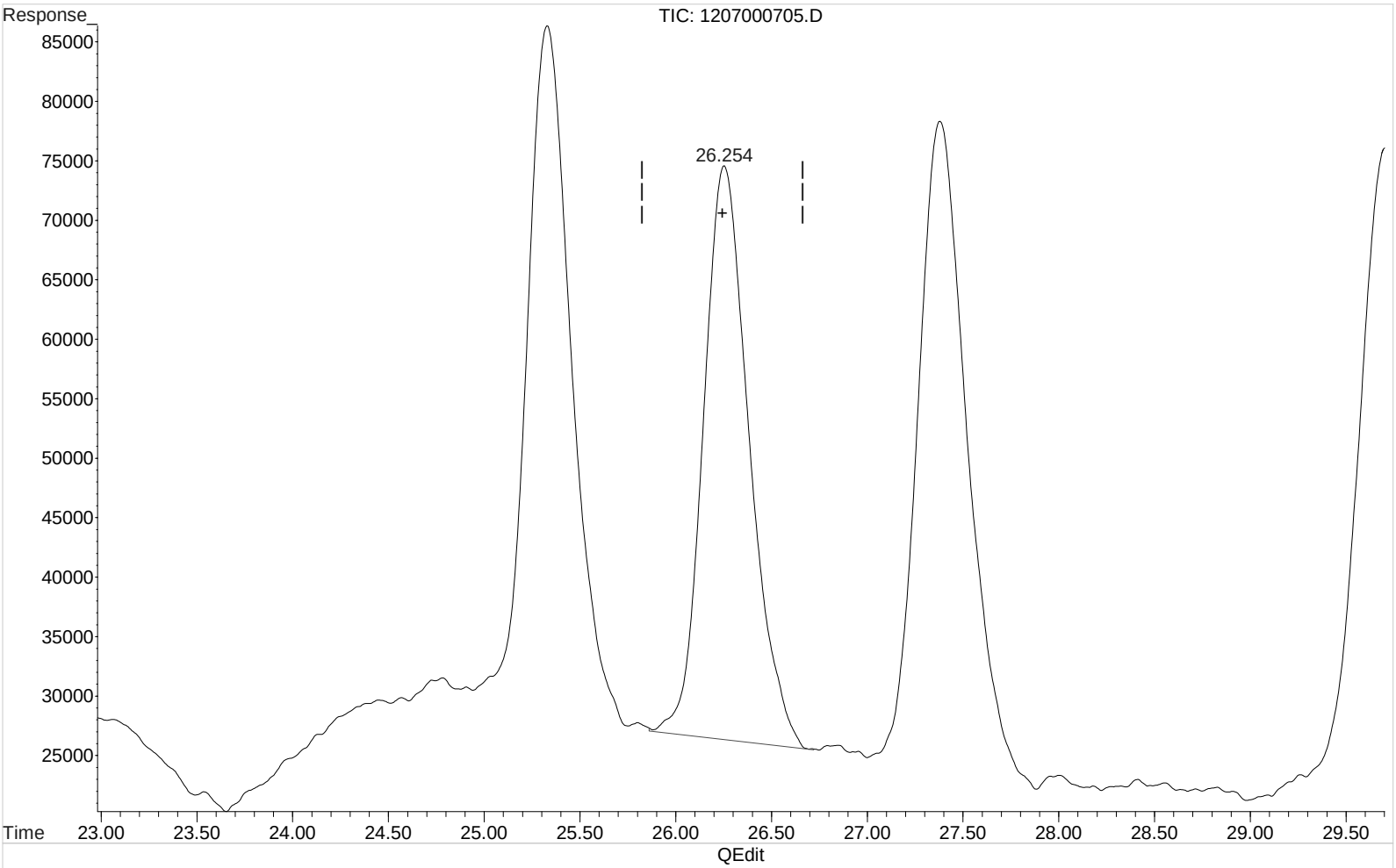
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.254min 50.422 ug/L m

response 806643

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b) (6)

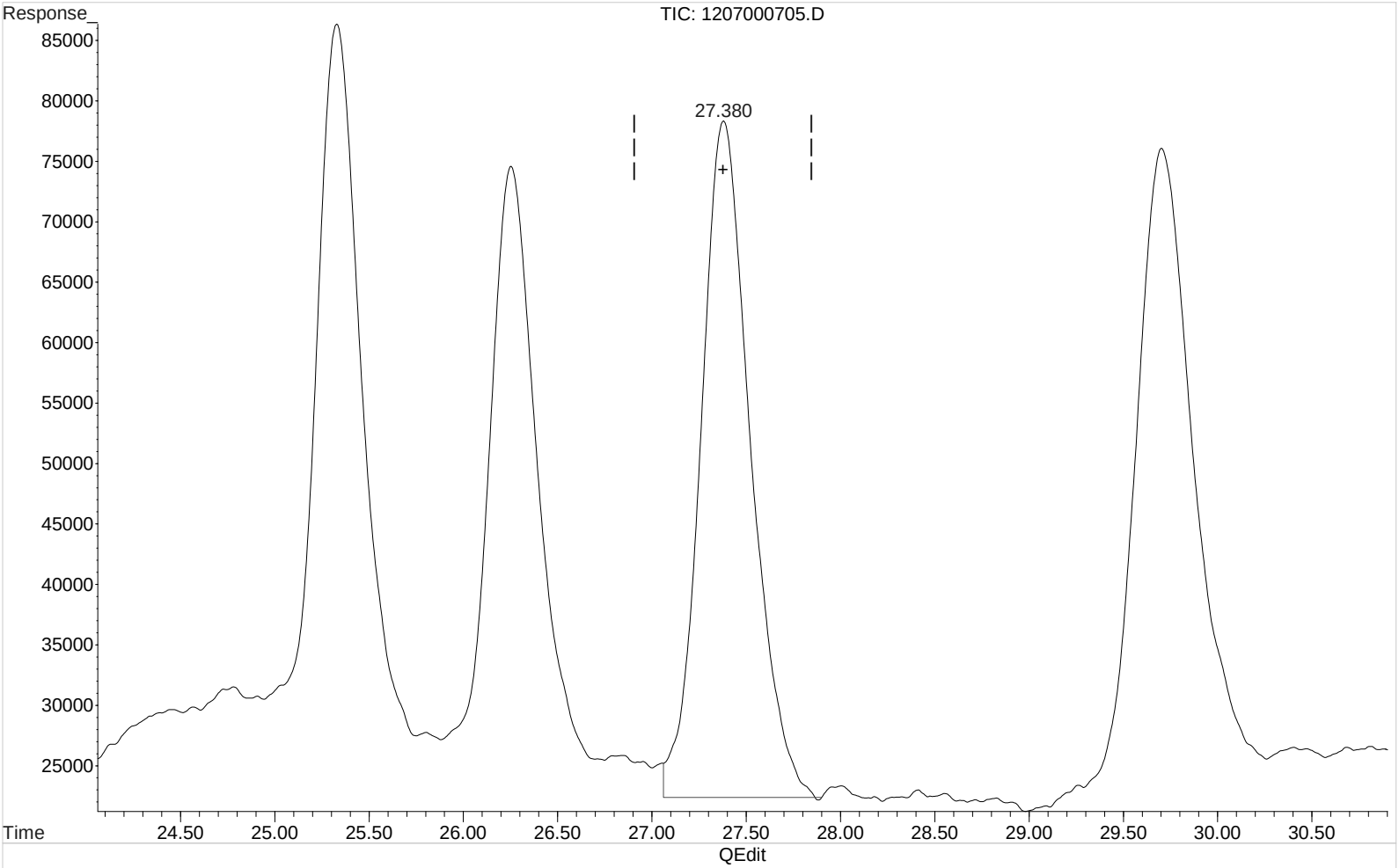
1 /08/16

2 /09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.380min 50.117 ug/L

response 1030312

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

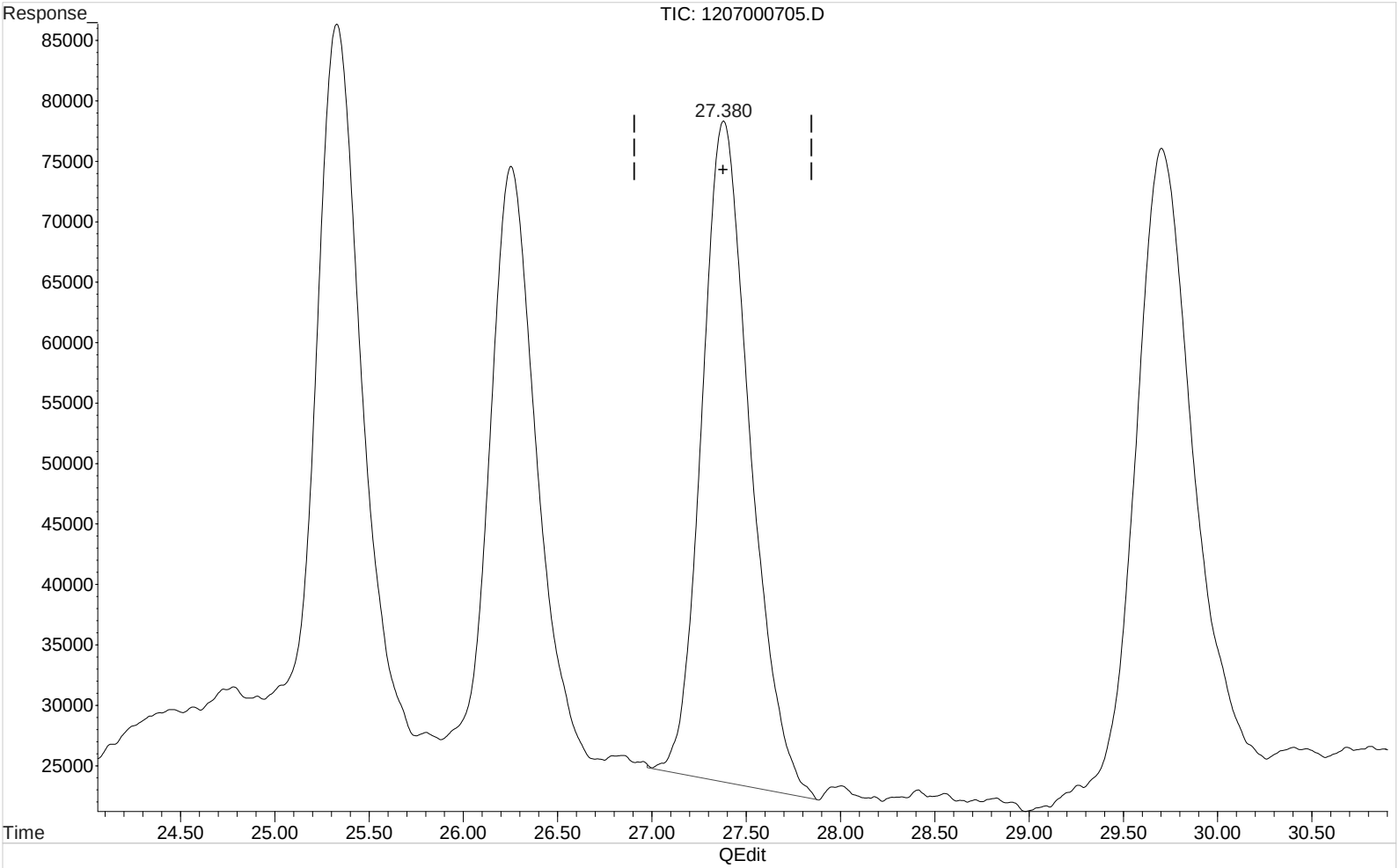
2/08/16

2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.380min 47.770 ug/L m

response 982059

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)

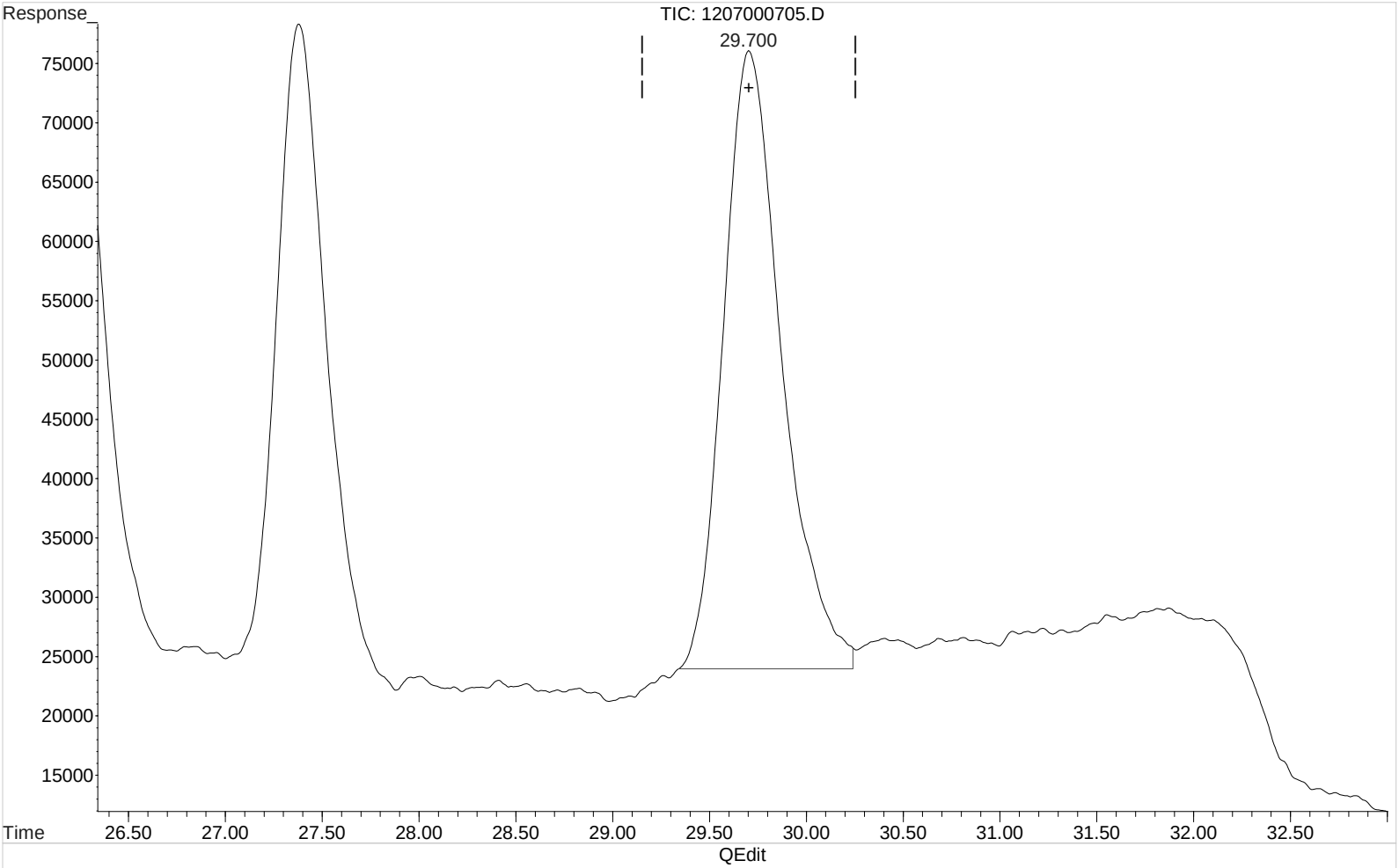
2/08/16

2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(18) 1-Chloro-3-Nitrobenzene (S)

29.700min 47.408 ug/L

response 1093549

Manual Integration:

Before

12/08/16

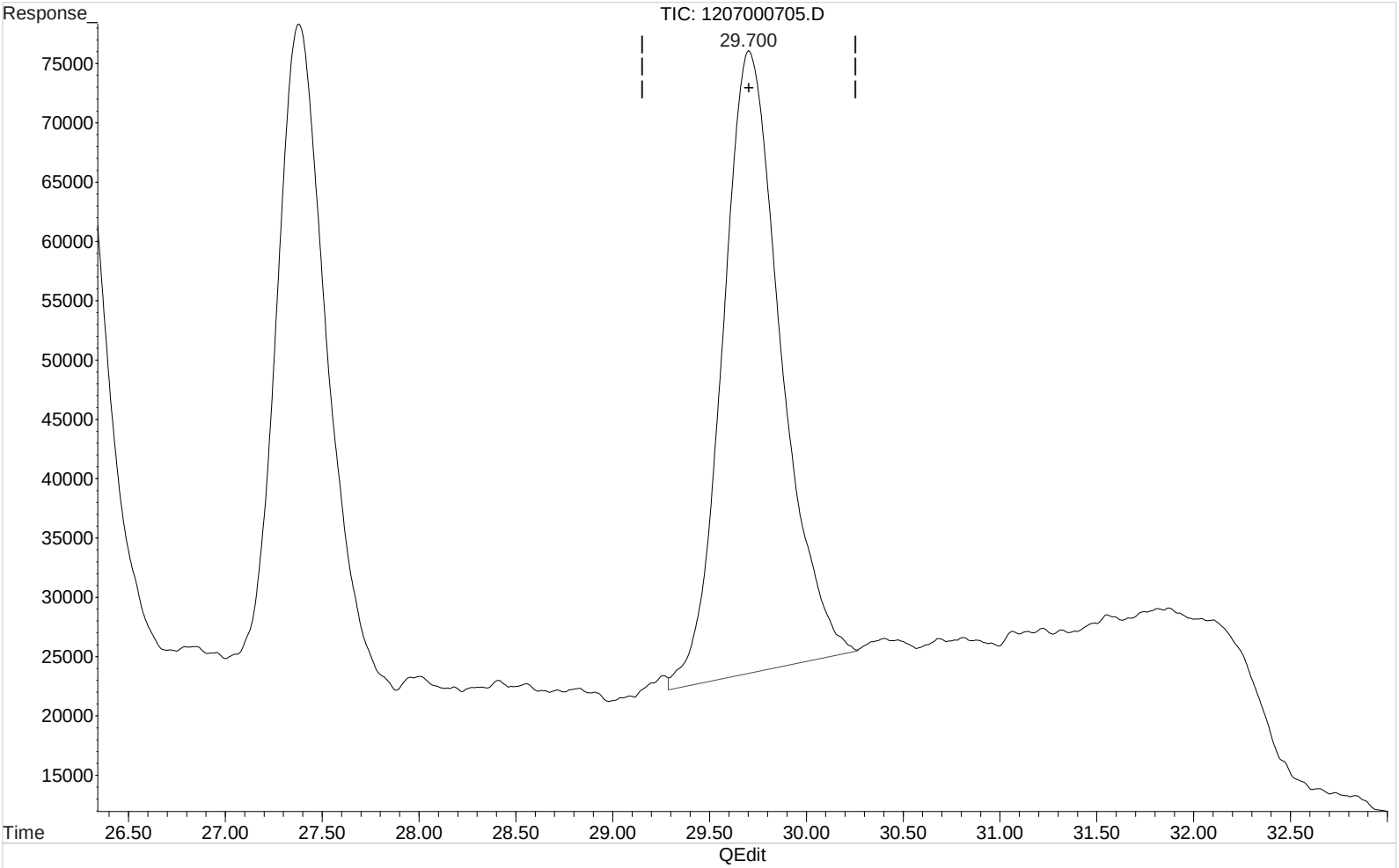
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(18) 1-Chloro-3-Nitrobenzene (S)

29.700min 47.809 ug/L m

response 1102787

Manual Integration:

After

BLC

12/08/16

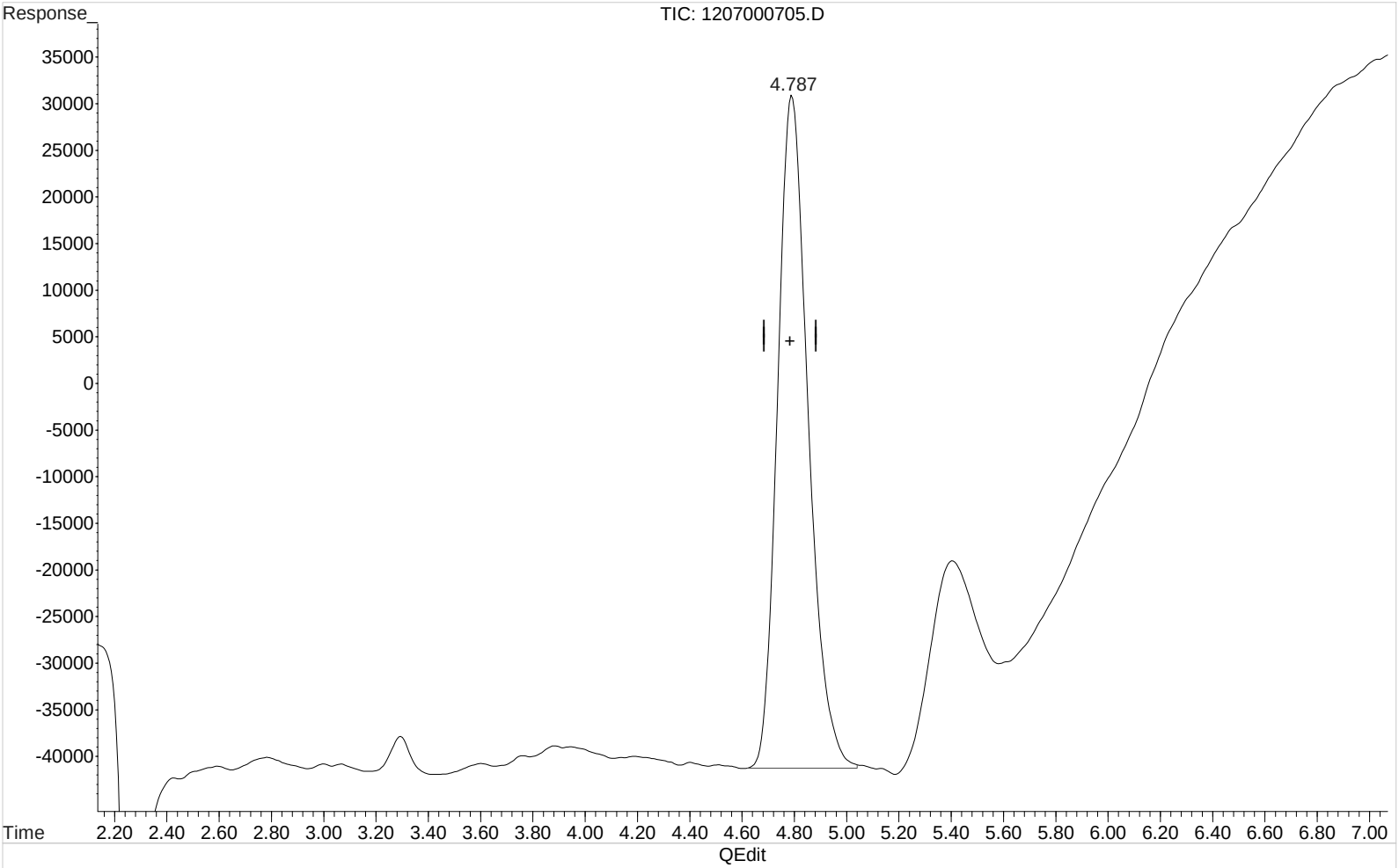
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(2) HMX (T)

4.787min 50.576 ug/L

response 588444

Manual Integration:

Before

12/08/16

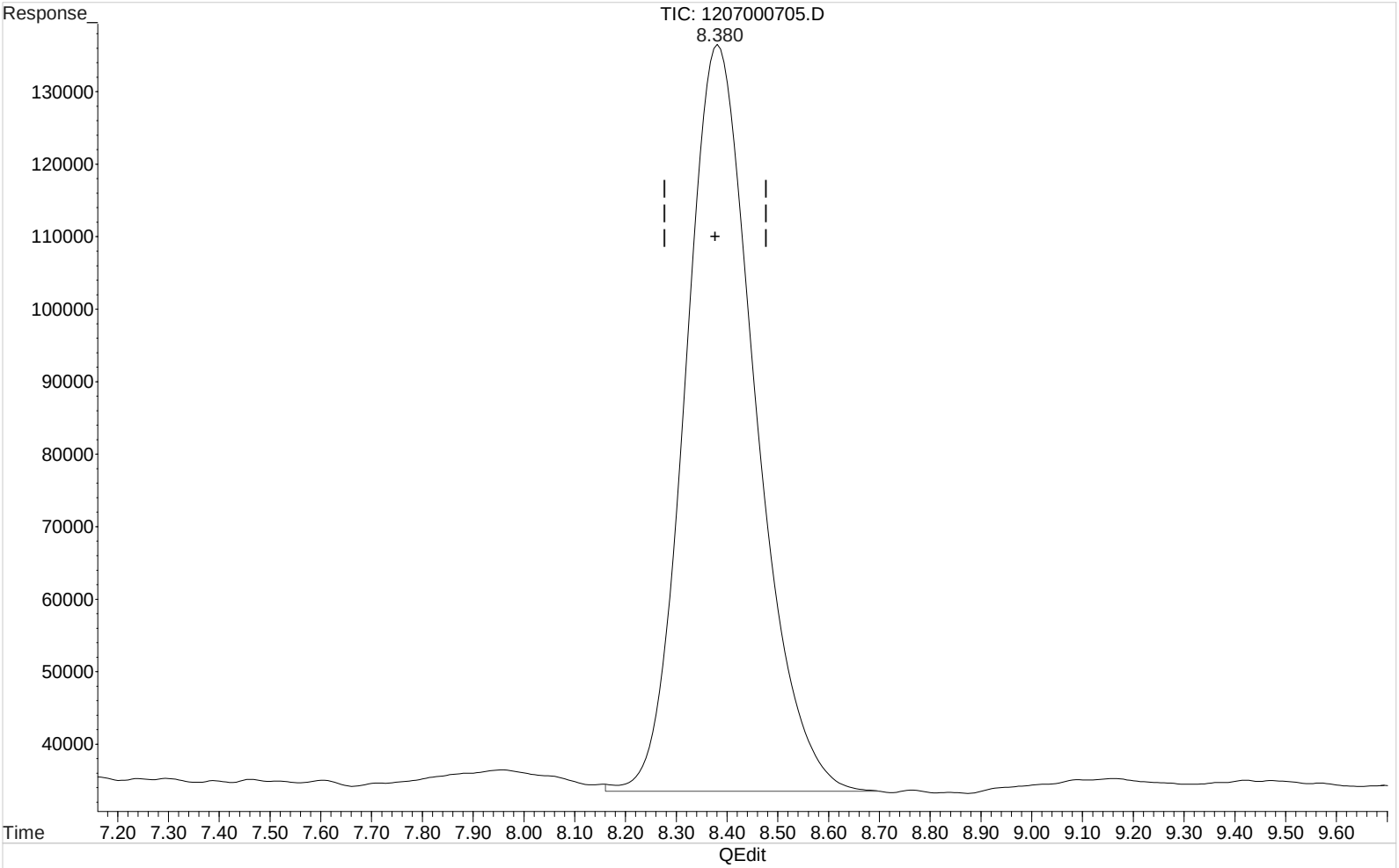
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(4) RDX (T)

8.380min 47.162 ug/L

response 991175

Manual Integration:

Before

12/08/16

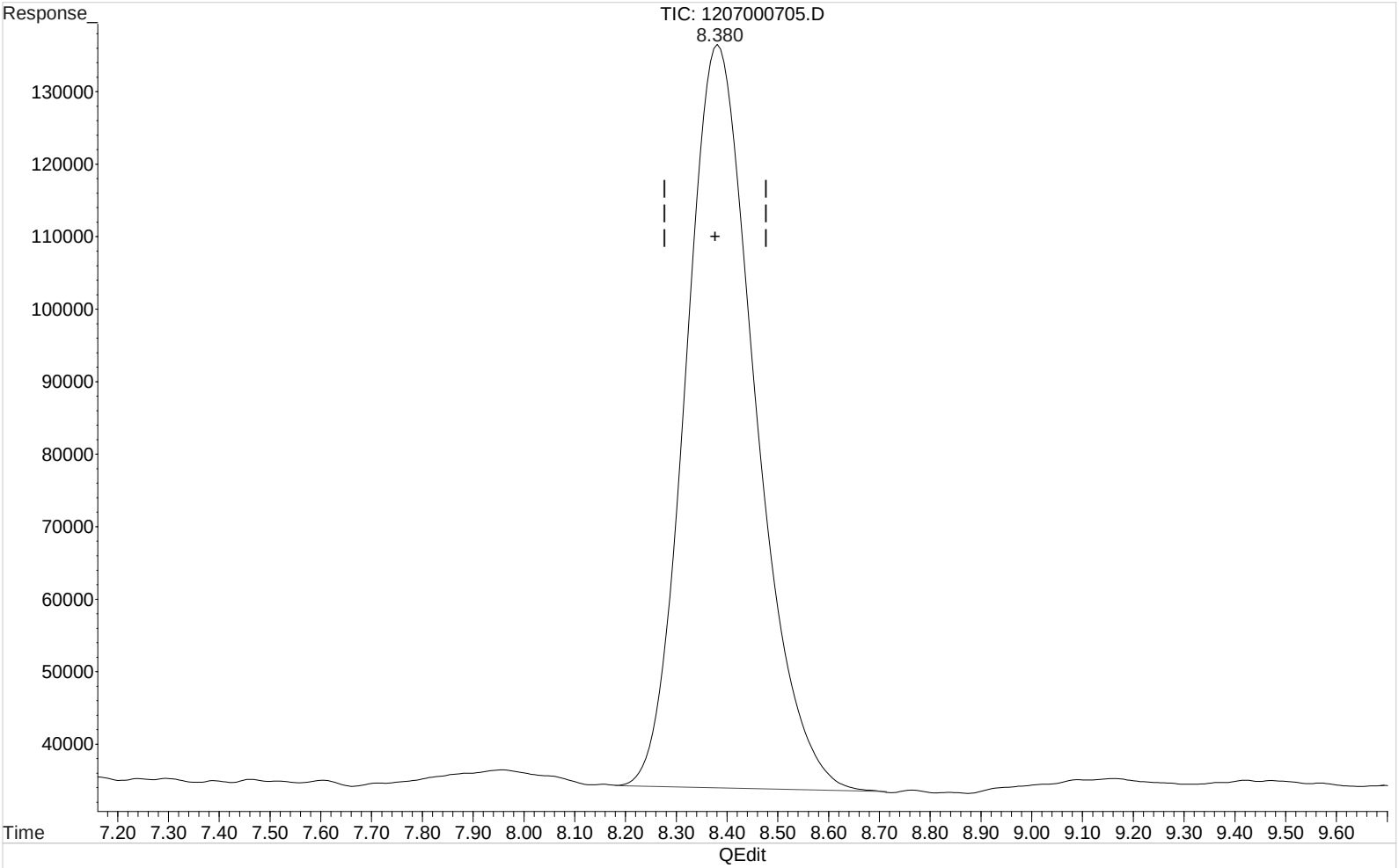
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(4) RDX (T)

8.380min 46.580 ug/L m

response 978940

Manual Integration:

After

BLC

12/08/16

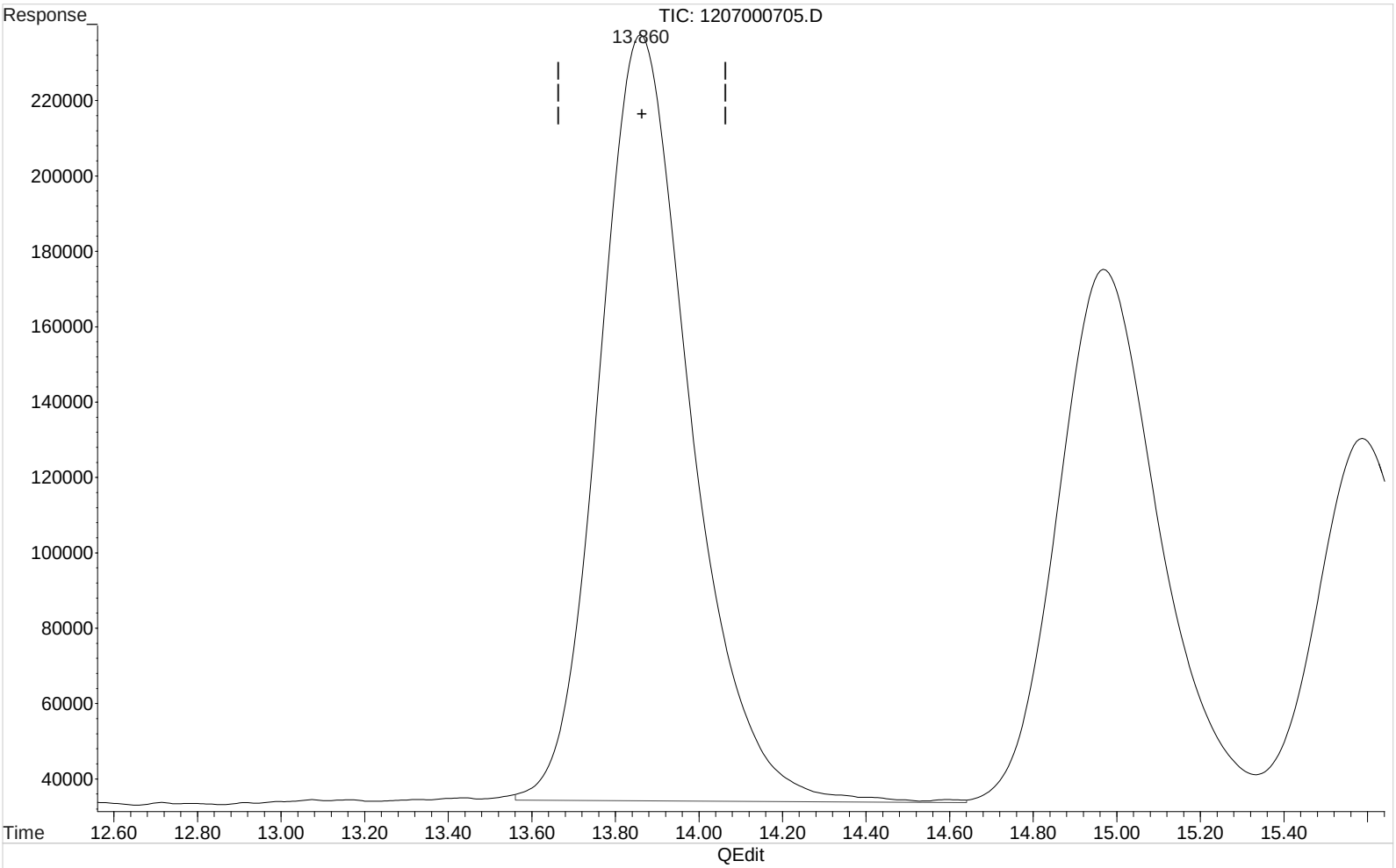
(+) = Expected Retention Time

1st (b) (6) /08/16
2nd /09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(6) 1,3-DNB (T)

13.860min 49.138 ug/L

response 3091980

Manual Integration:

Before

12/08/16

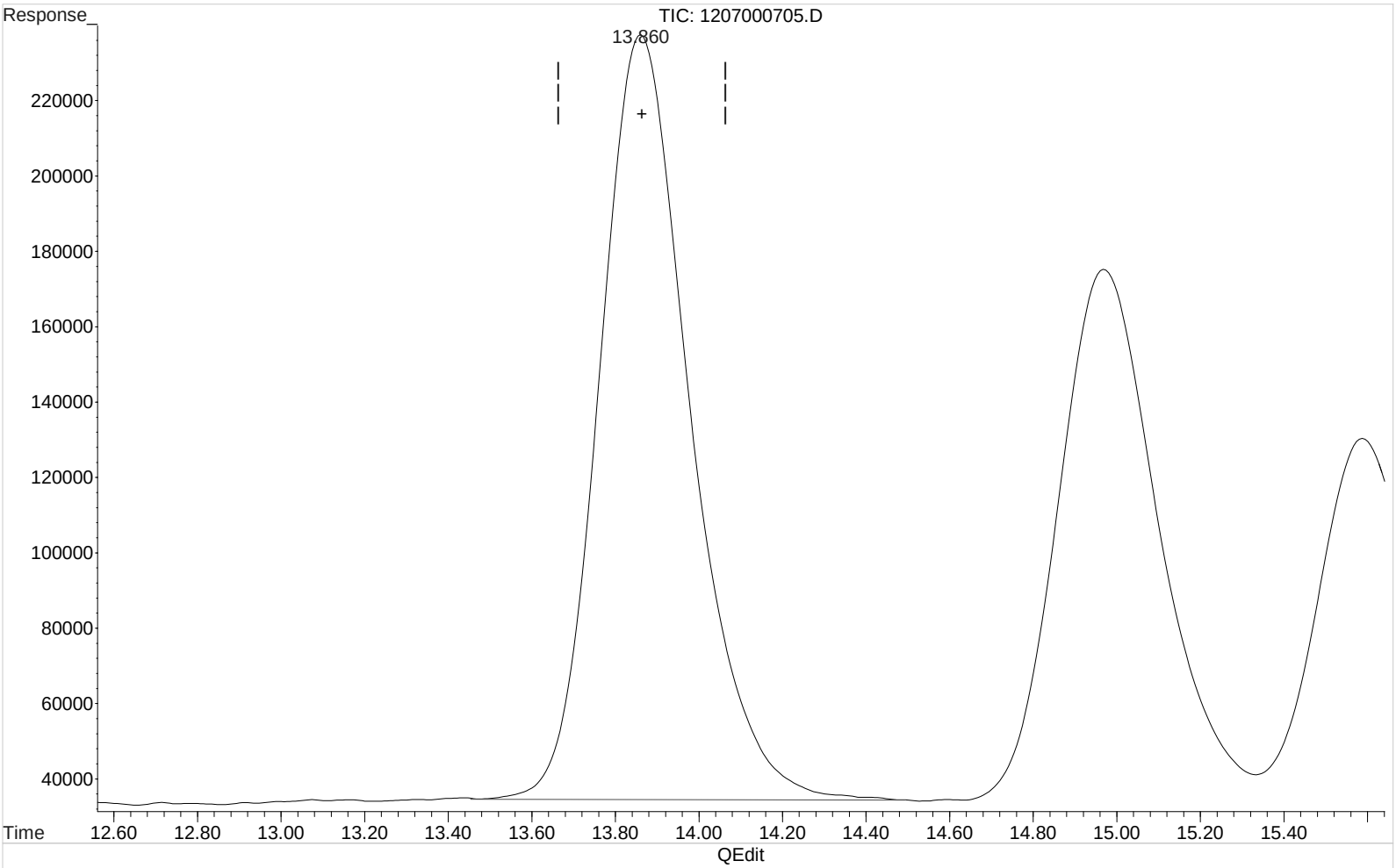
(+) = Expected Retention Time

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(6) 1,3-DNB (T)

13.860min 48.773 ug/L m

response 3069012

Manual Integration:

After

BLC

12/08/16

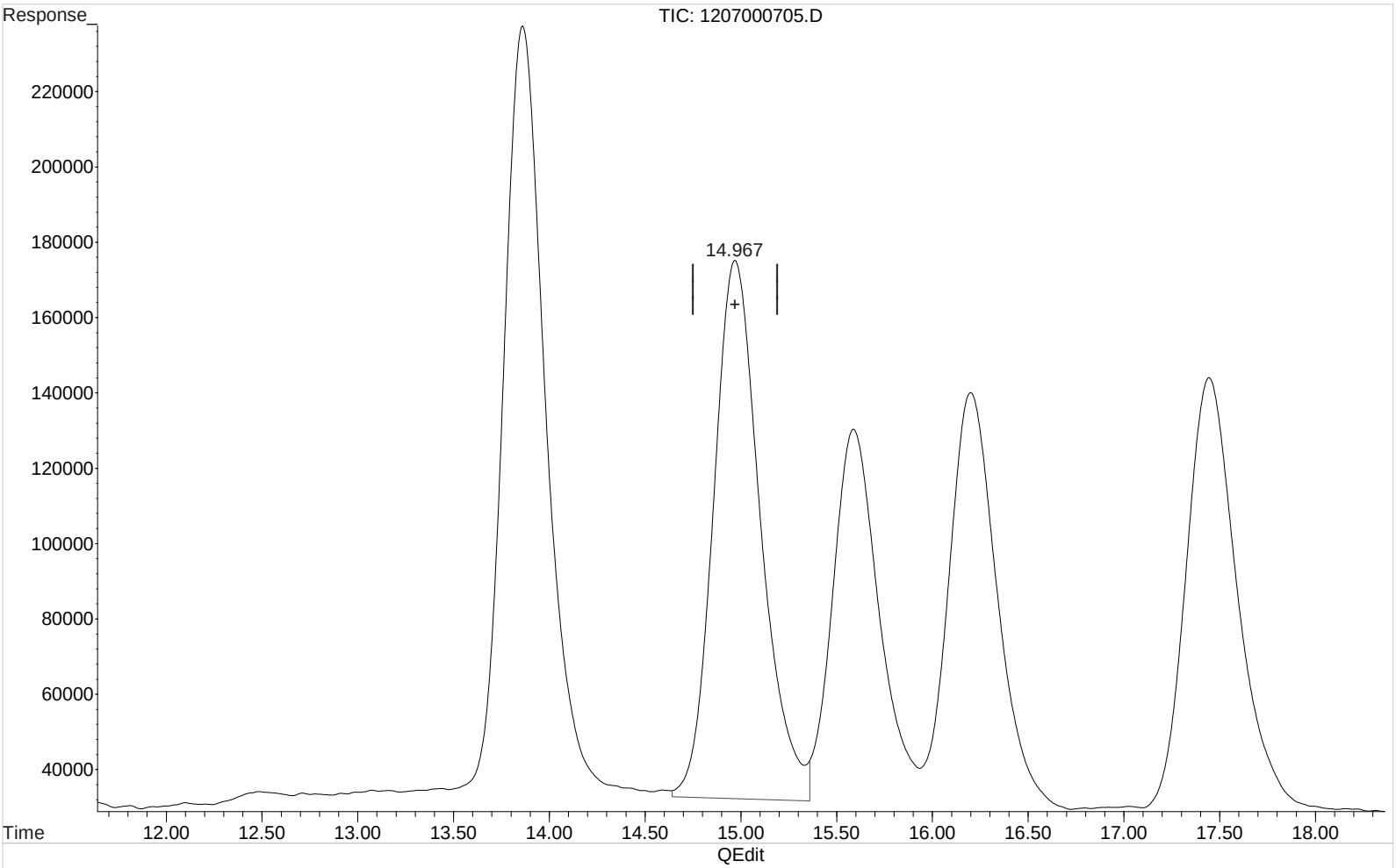
(+) = Expected Retention Time

1st (b) (6) /08/16
2nd /09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.967min 50.232 ug/L

response 2450718

Manual Integration:

Before

12/08/16

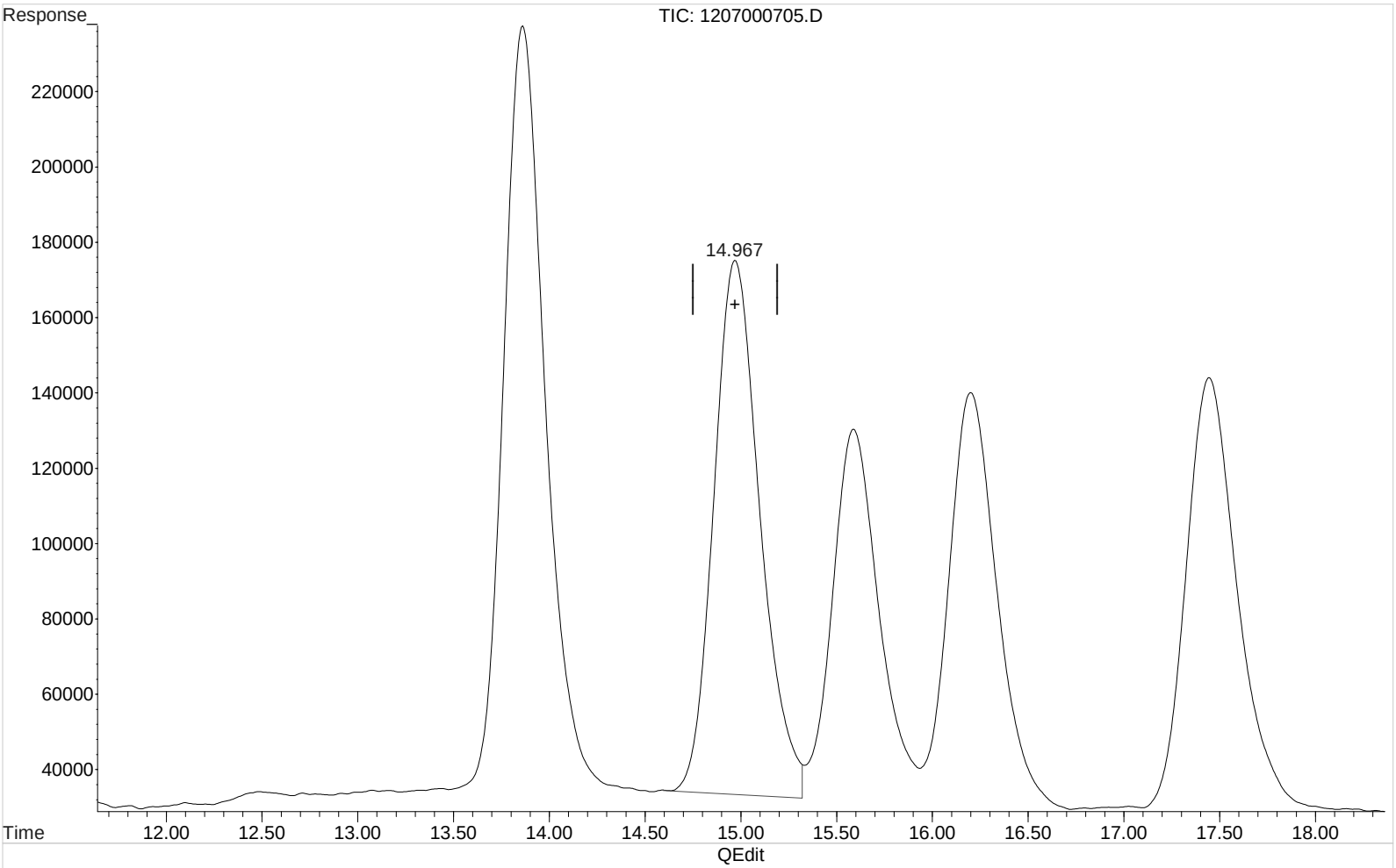
(+) = Expected Retention Time

(b) (6)
1st /08/16
2nd /09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.967min 48.826 ug/L m

response 2382128

Manual Integration:

After

BLC

12/08/16

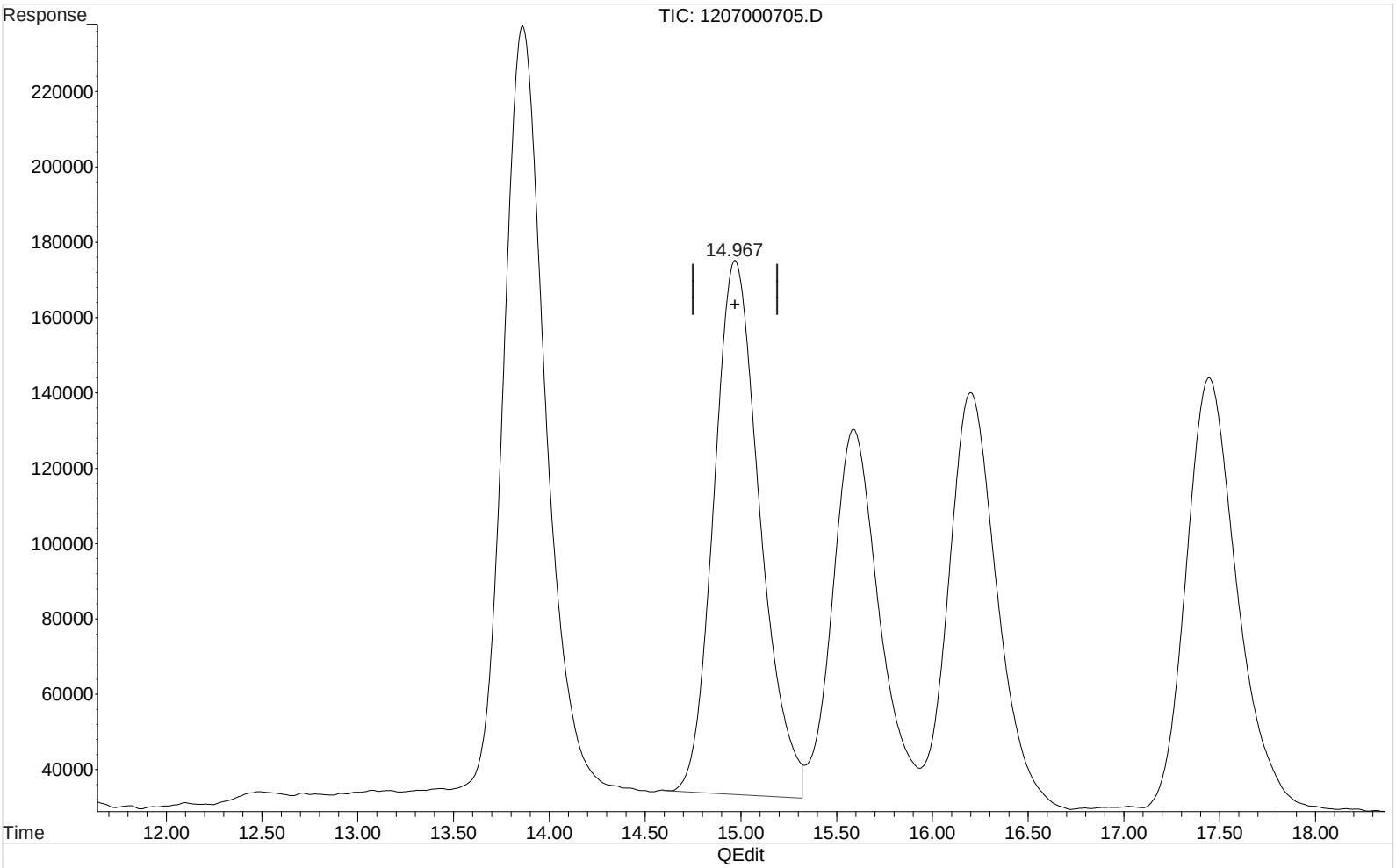
(+) = Expected Retention Time

(b)
(6)
1st 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(7) 3,5-Dinitroaniline (T)

14.967min 48.826 ug/L m

response 2382128

Manual Integration:

After

NO BEFORE, ACCIDENTAL INT

12/08/16

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

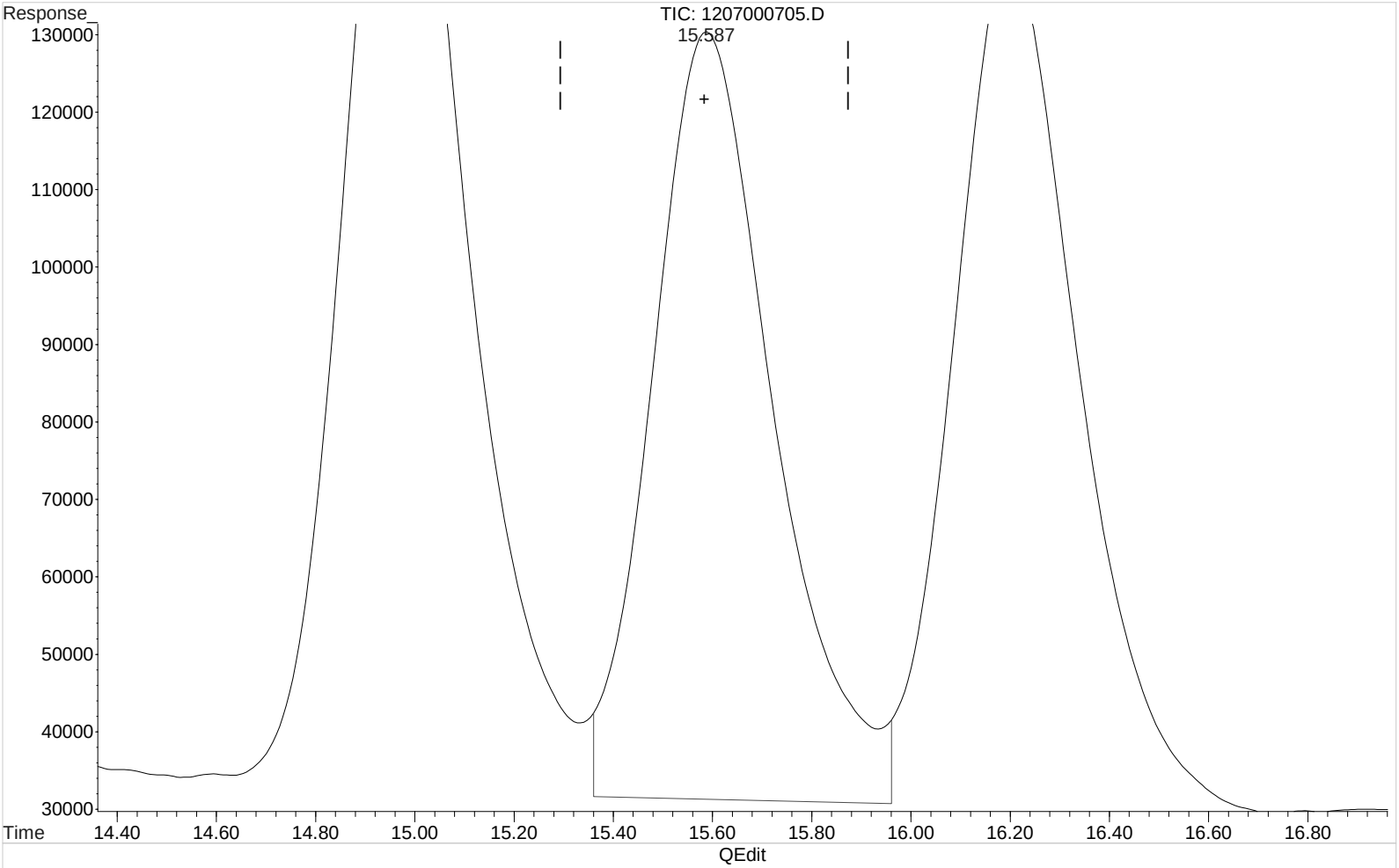
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.587min 49.926 ug/L

response 1682029

Manual Integration:

Before

12/08/16

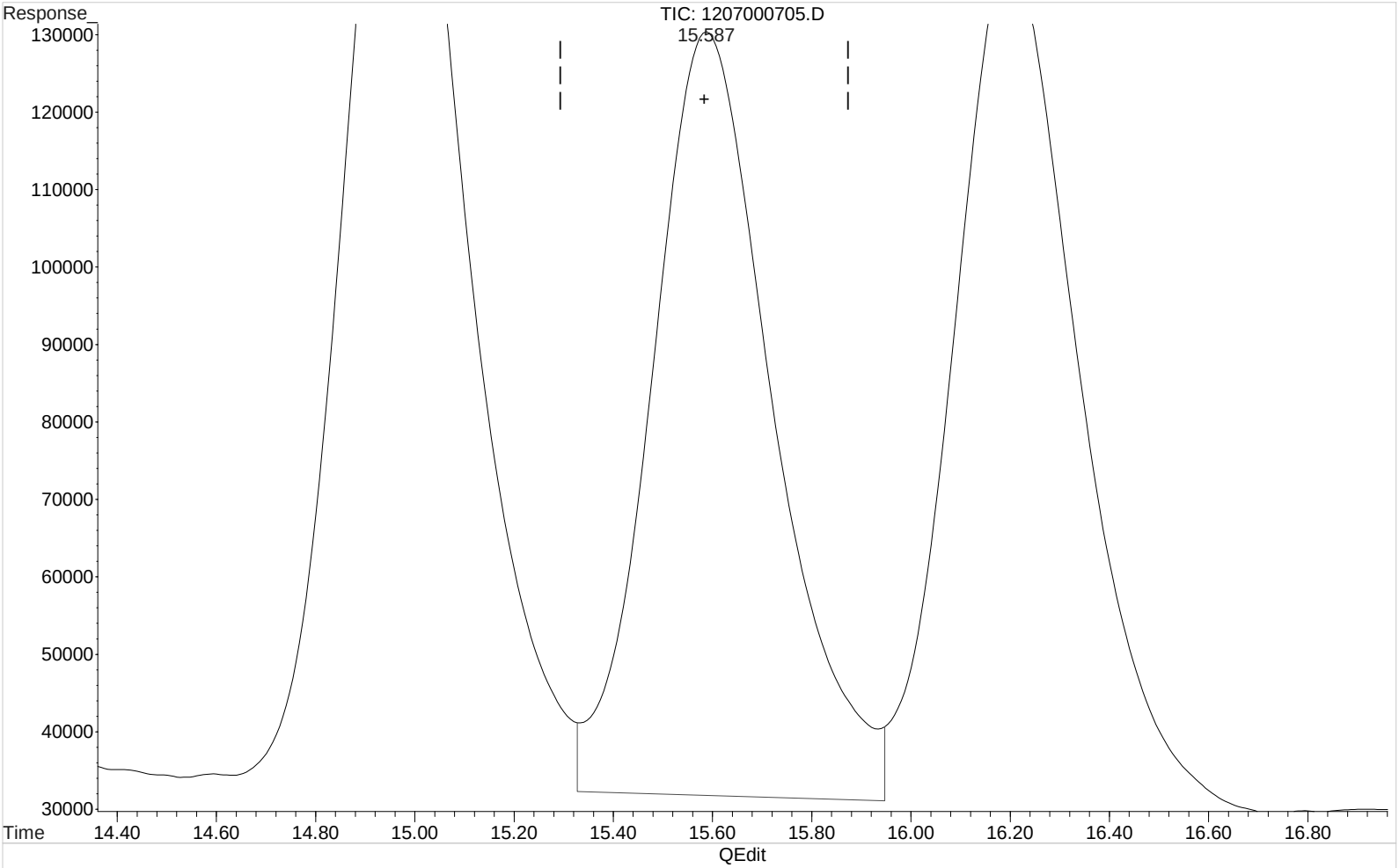
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.587min 49.760 ug/L m

response 1676426

Manual Integration:

After

BLC

12/08/16

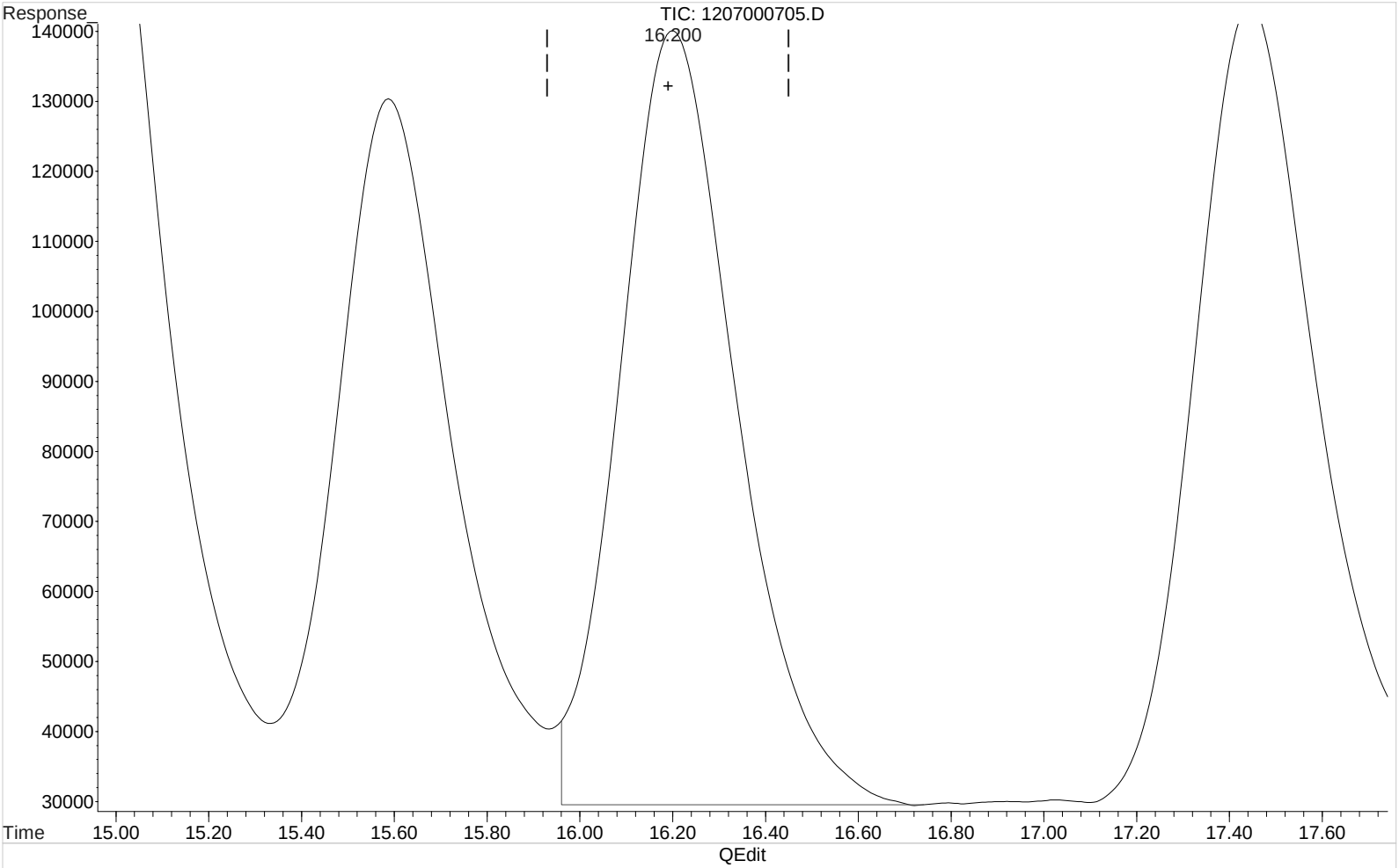
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.200min 48.909 ug/L

response 1926694

Manual Integration:

Before

12/08/16

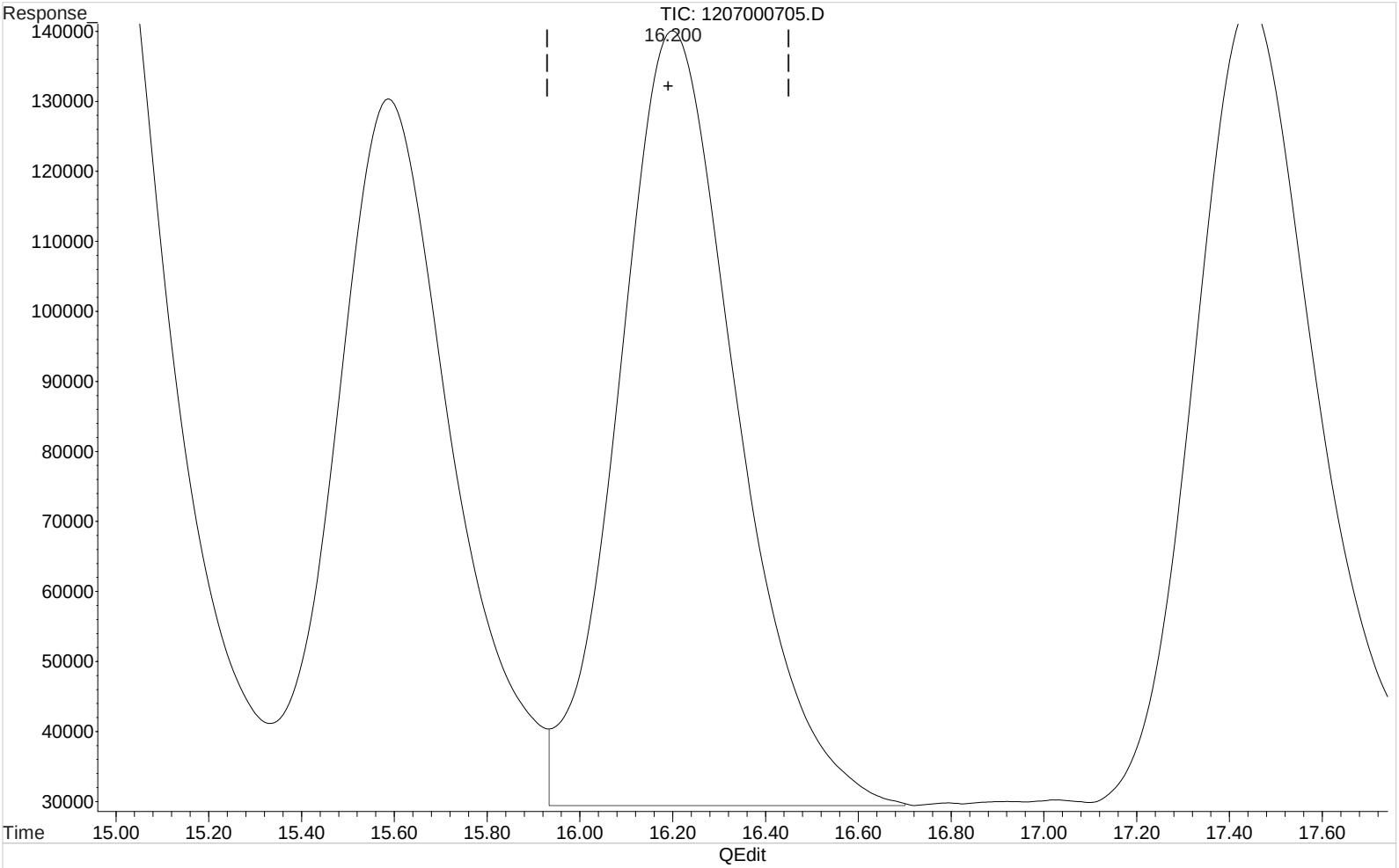
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.200min 49.519 ug/L m

response 1950750

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:06:56 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
18) S	1-Chloro-3-Nitrobenzene	29.688	2222660	98.517	ug/L	m
	Target Compounds					
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2) T	HMX	4.788	1216166	103.579	ug/L	
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4) T	RDX	8.381	1985238	97.807	ug/L	m
5) T	1,3,5-TNB	10.521	4433120	97.549	ug/L	m
6) T	1,3-DNB	13.861	5956080	95.830	ug/L	
7) T	3,5-Dinitroaniline	14.975	4770181	98.935	ug/L	m
8) T	Tetryl	15.588	3353341	99.774	ug/L	m
9) T	Nitrobenzene	16.201	3828698	97.660	ug/L	m
10) T	2,4,6-TNT	17.441	4139905	101.107	ug/L	
11) T	4-Amino-2,6-DNT	19.215	2969829	103.131	ug/L	m
12) T	2-Amino-4,6-DNT	20.048	4166626	93.333	ug/L	
13) T	2,6-DNT	21.748	2380424	NoCal	ug/L	m
14) T	2,4-DNT	22.201	5893843	101.023	ug/L	m
15) T	2-NT	25.321	1803120	100.899	ug/L	
16) T	4-NT	26.241	1643208	102.283	ug/L	m
17) T	3-NT	27.361	2049432	101.964	ug/L	m

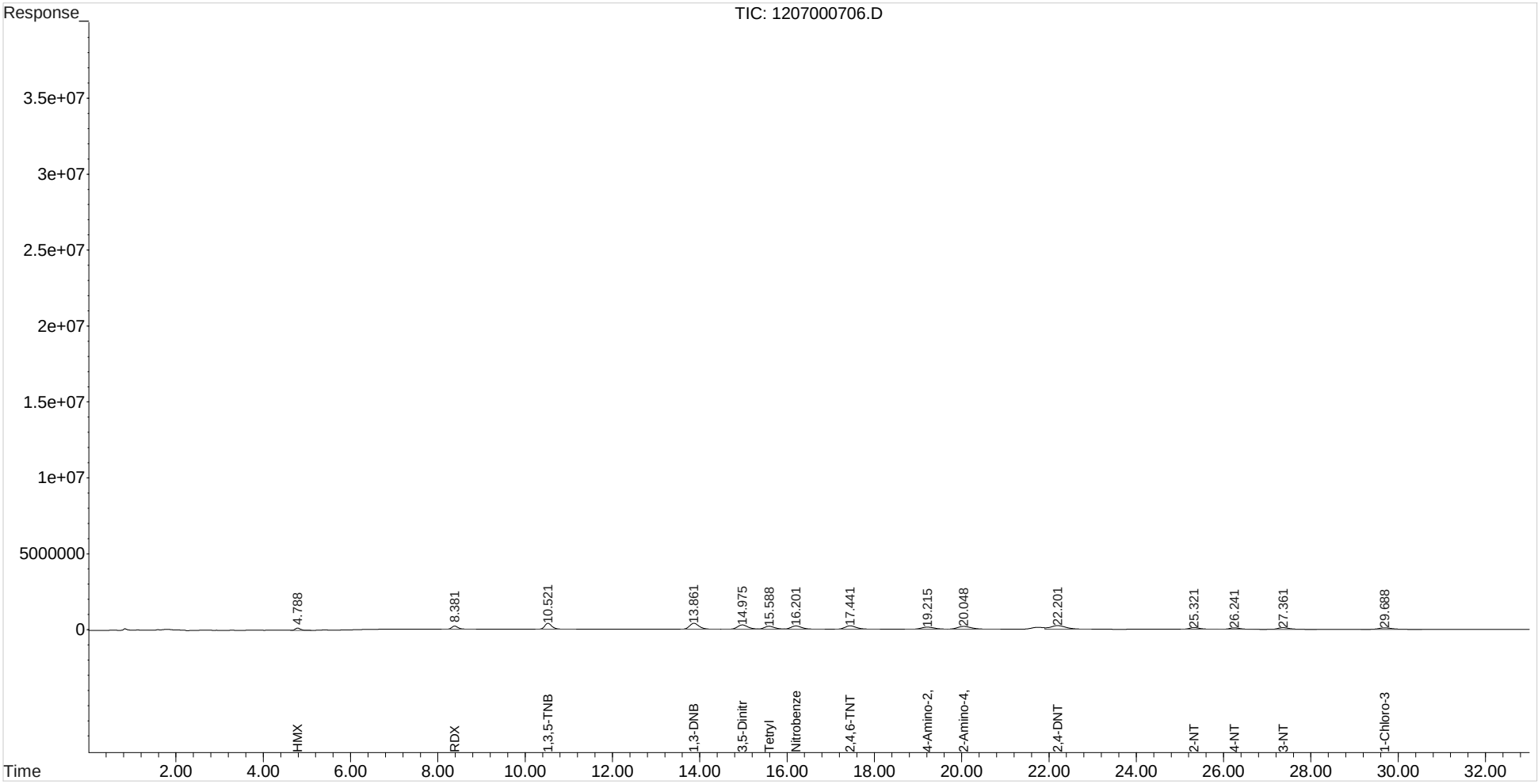
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:06:56 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

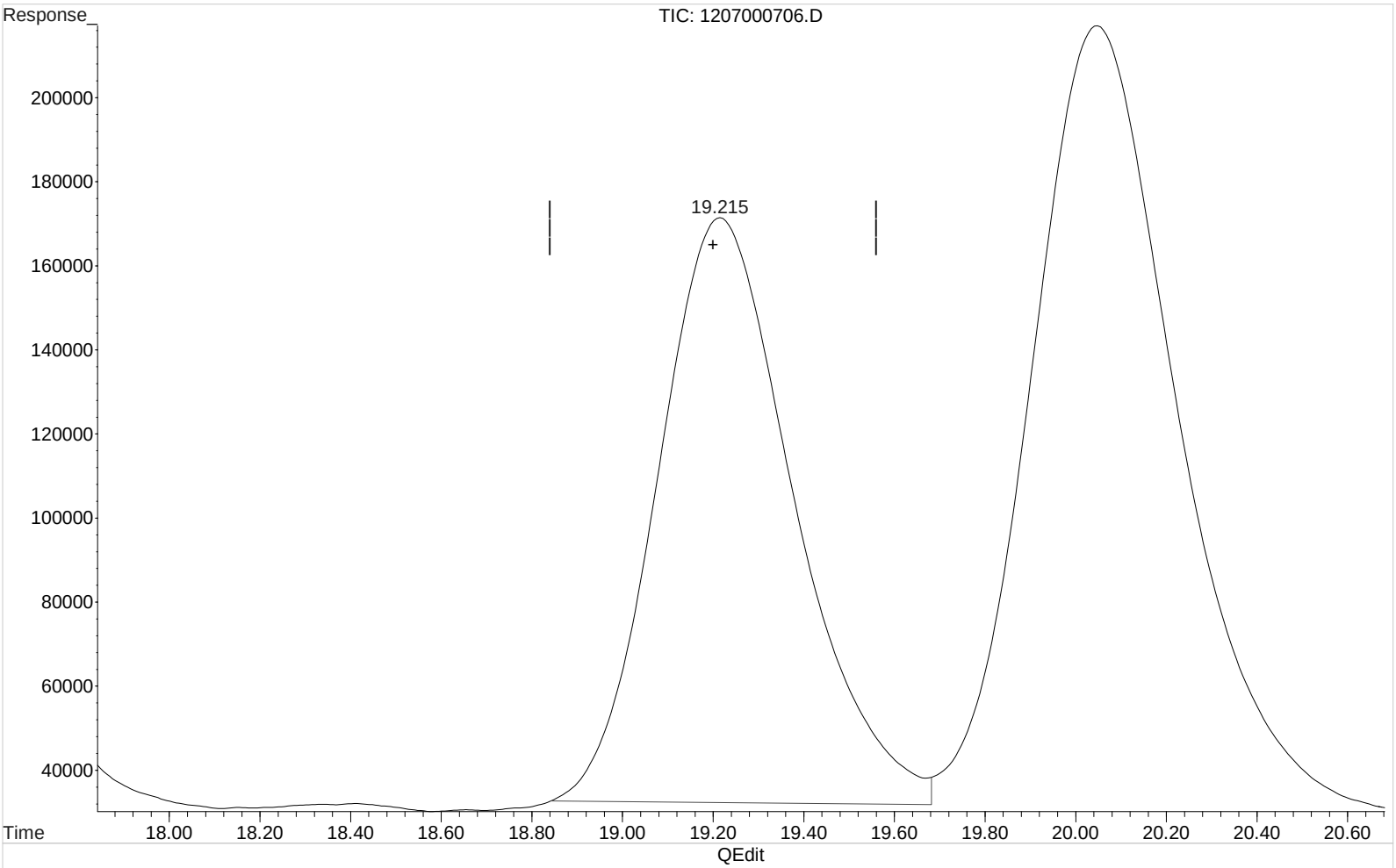


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(11) 4-Amino-2,6-DNT (T)

19.215min 100.578 ug/L

response 2896316

Manual Integration:

Before

12/08/16

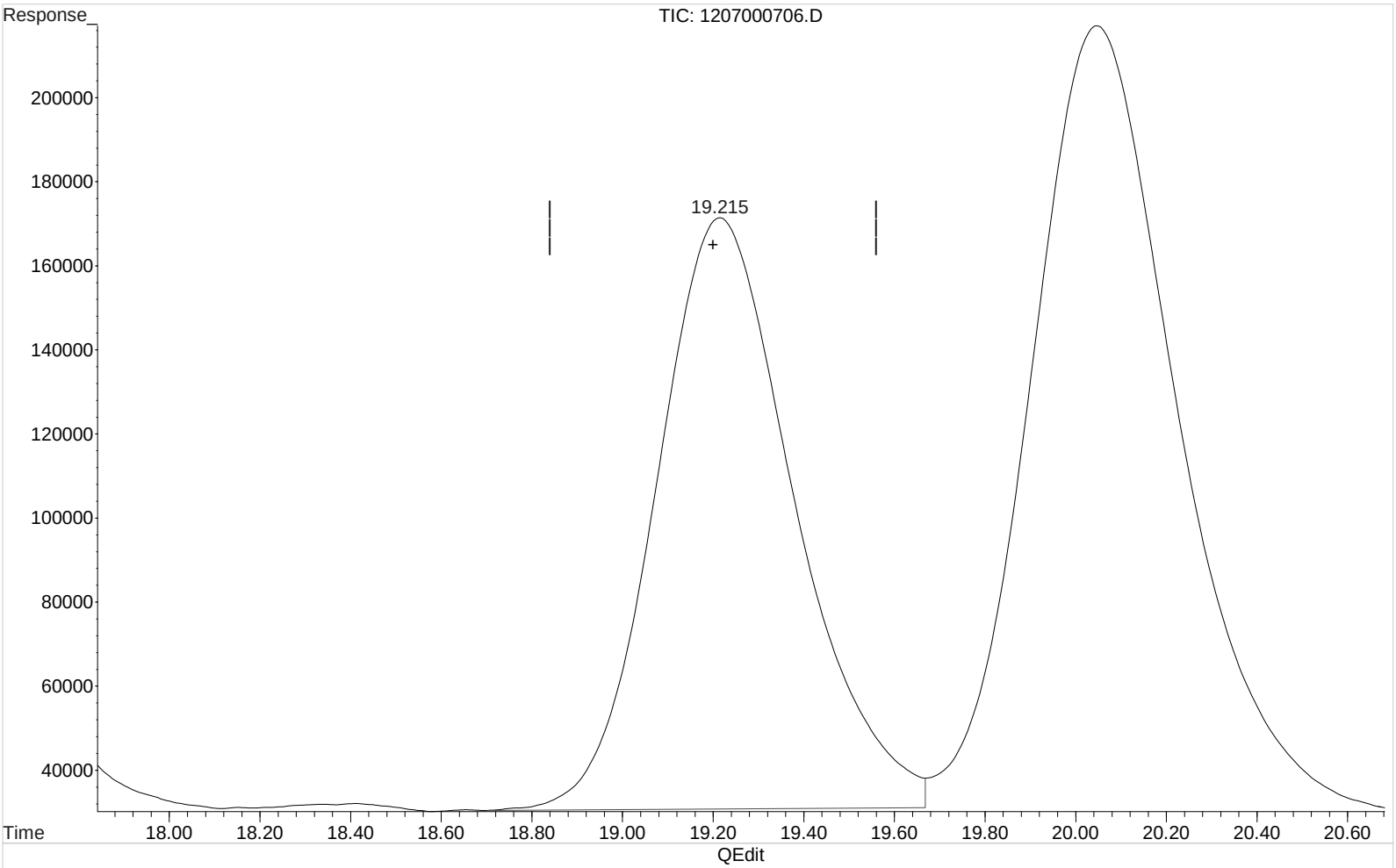
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(11) 4-Amino-2,6-DNT (T)

19.215min 103.131 ug/L m

response 2969829

Manual Integration:

After

BLC

12/08/16

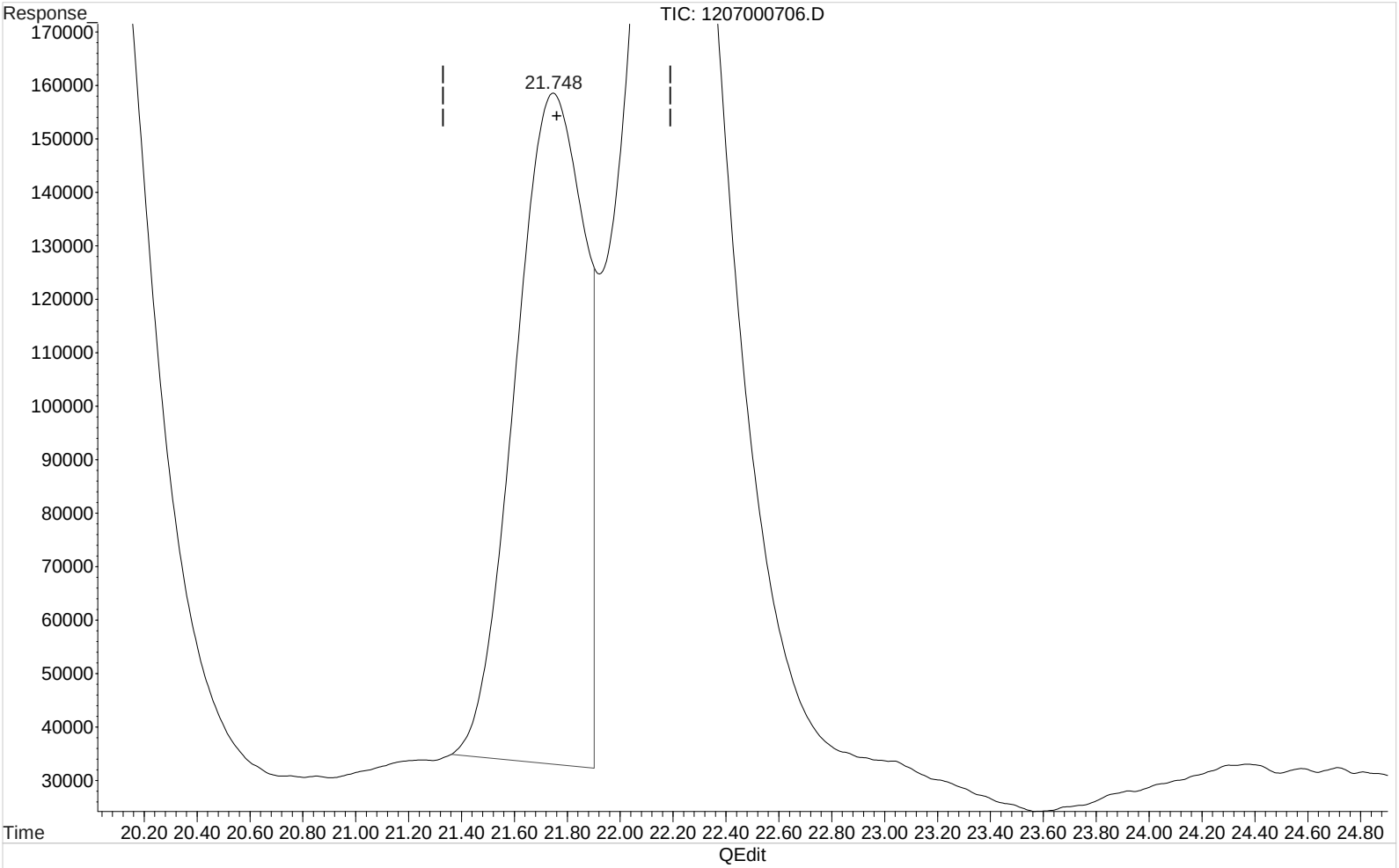
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.748min 0.000 ug/L

response 2294444

Manual Integration:

Before

12/08/16

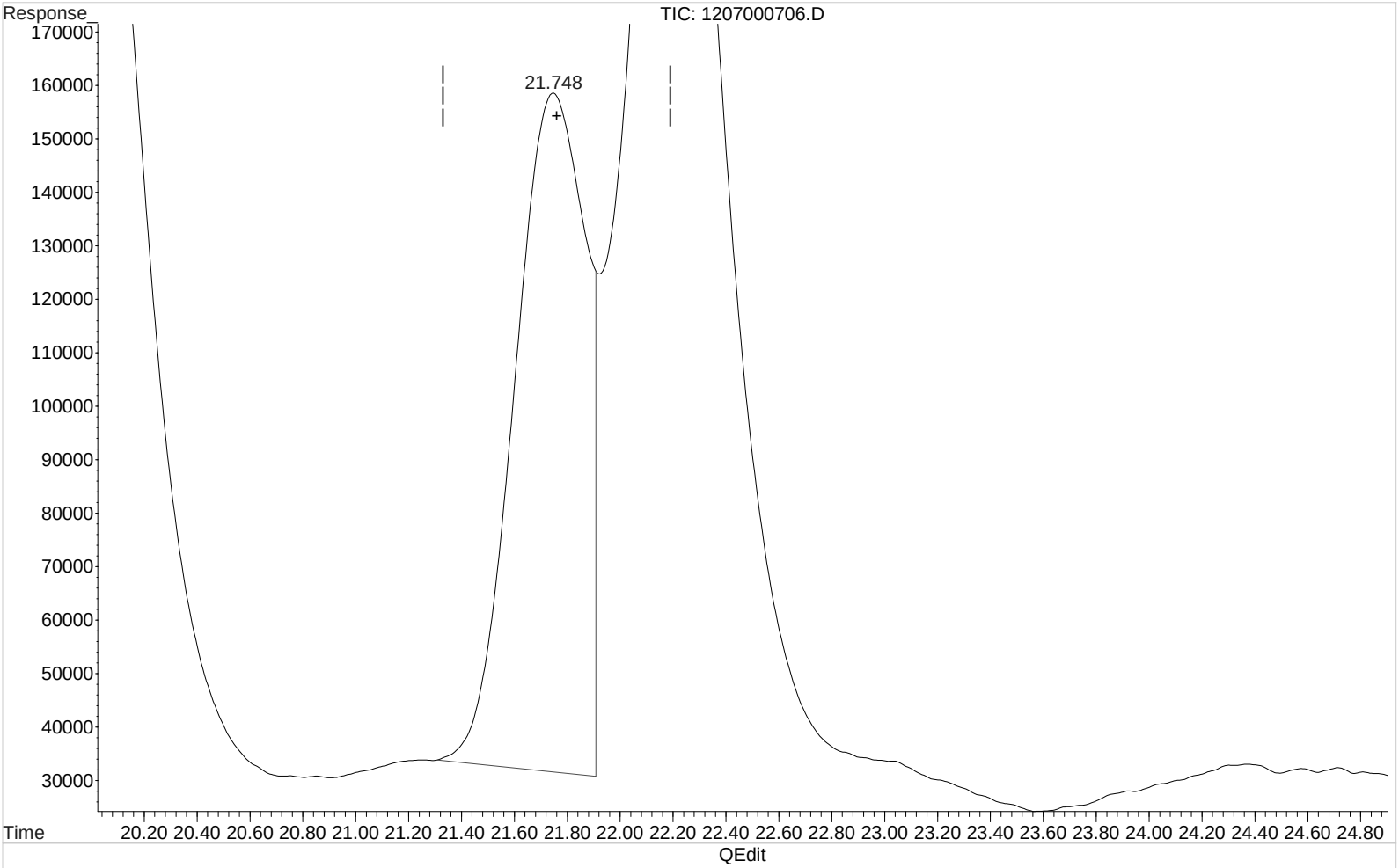
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)
21.748min 0.000 ug/L m
response 2380424

Manual Integration:
After
BLC
12/08/16

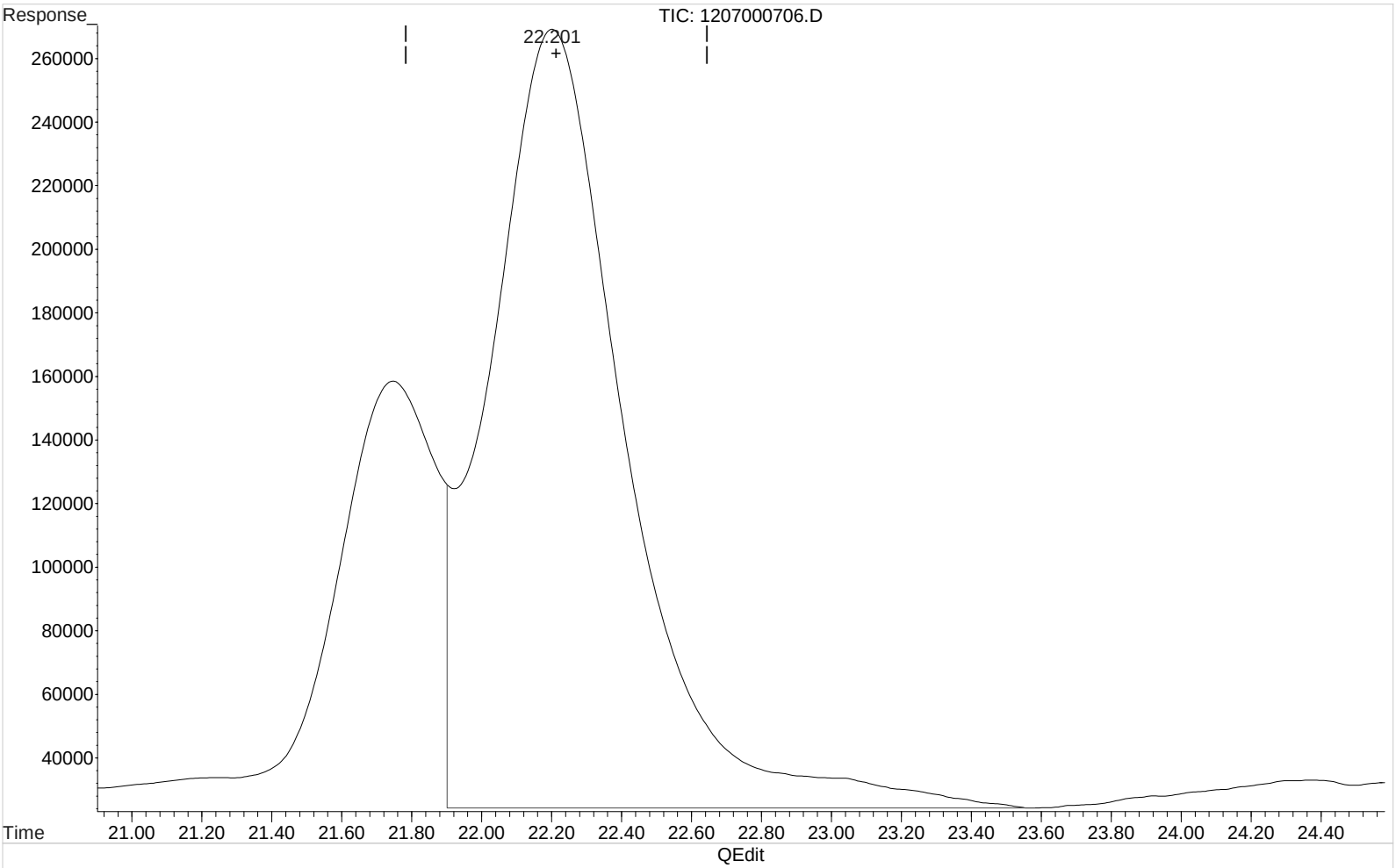
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.201min 114.241 ug/L

response 6665030

Manual Integration:

Before

12/08/16

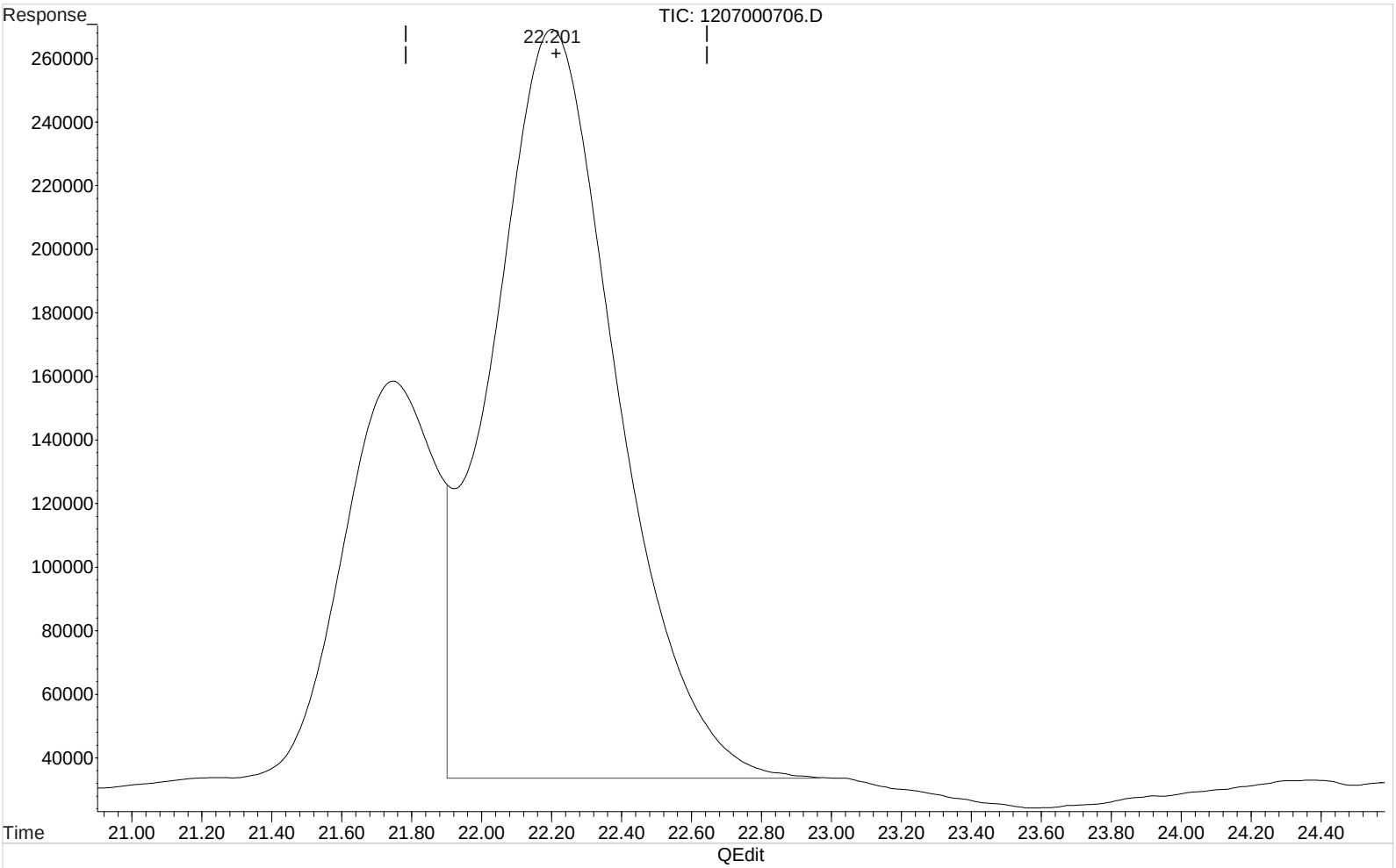
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(14) 2,4-DNT (T)

22.201min 101.023 ug/L m

response 5893843

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)

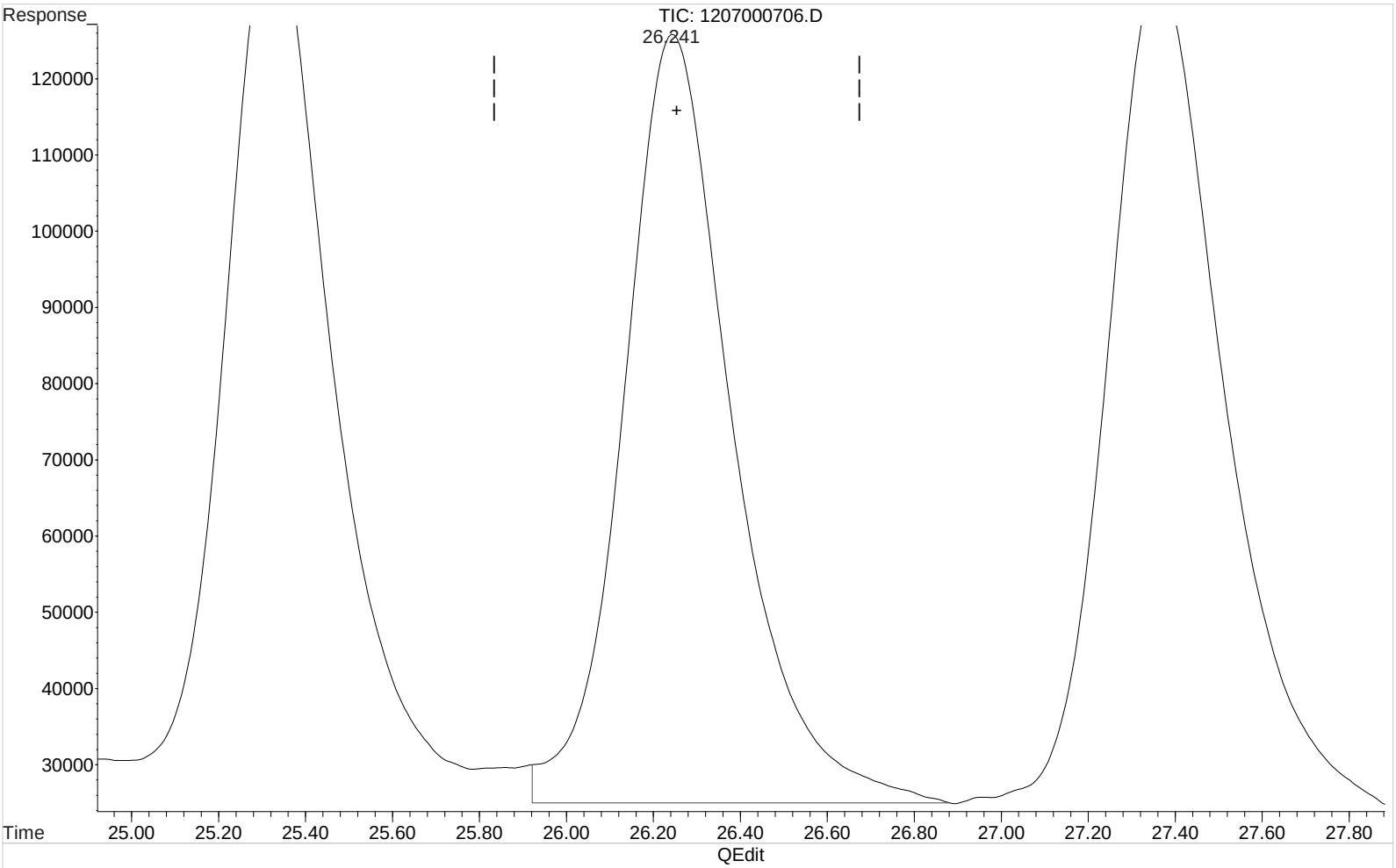
/08/16

/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(16) 4-NT (T)

26.241min 109.482 ug/L

response 1758863

Manual Integration:

Before

12/08/16

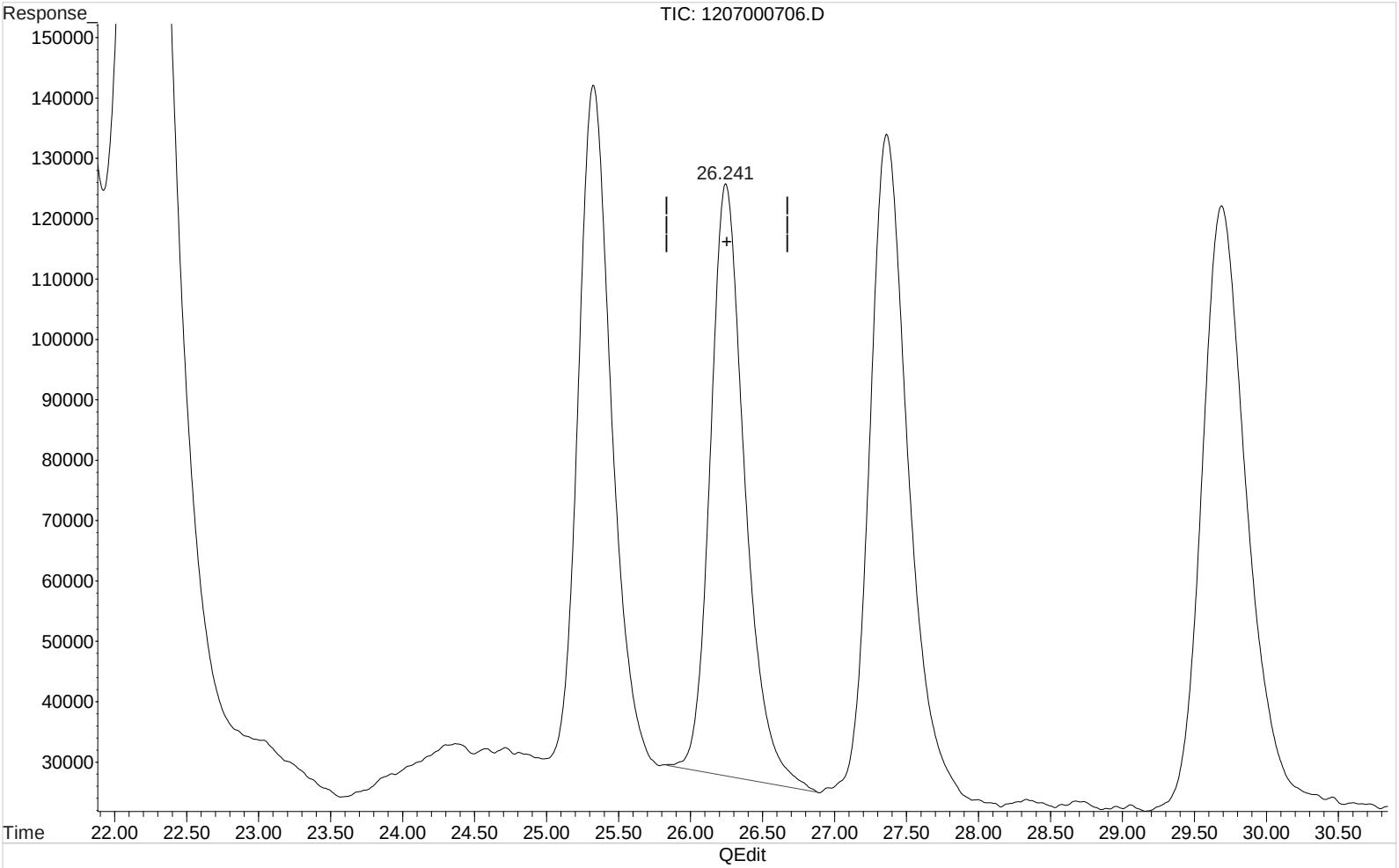
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.241min 102.283 ug/L m

response 1643208

Manual Integration:

After

BLC

12/08/16

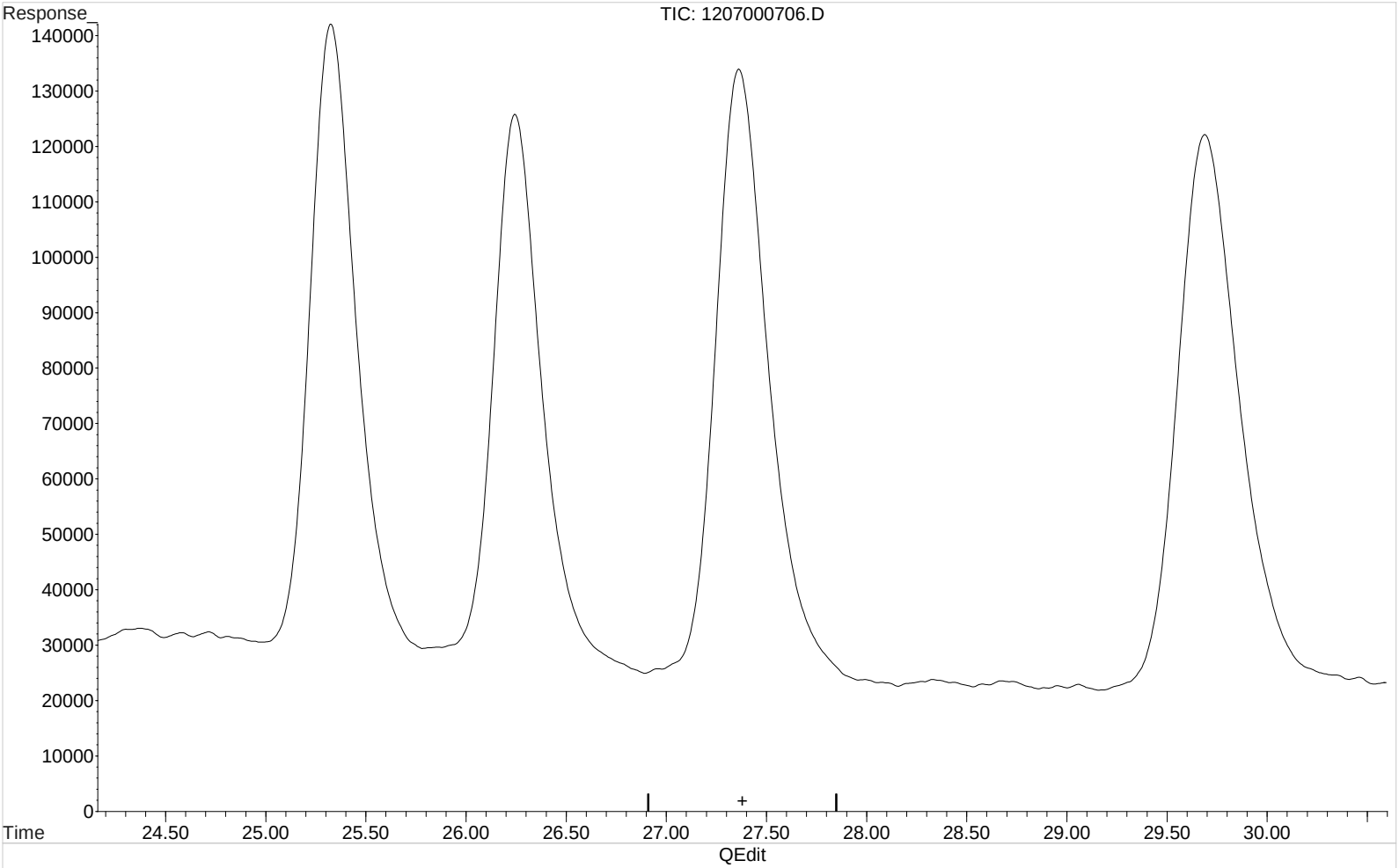
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

0.000min 0.000 ug/L d

response 0

Manual Integration:

Before

12/08/16

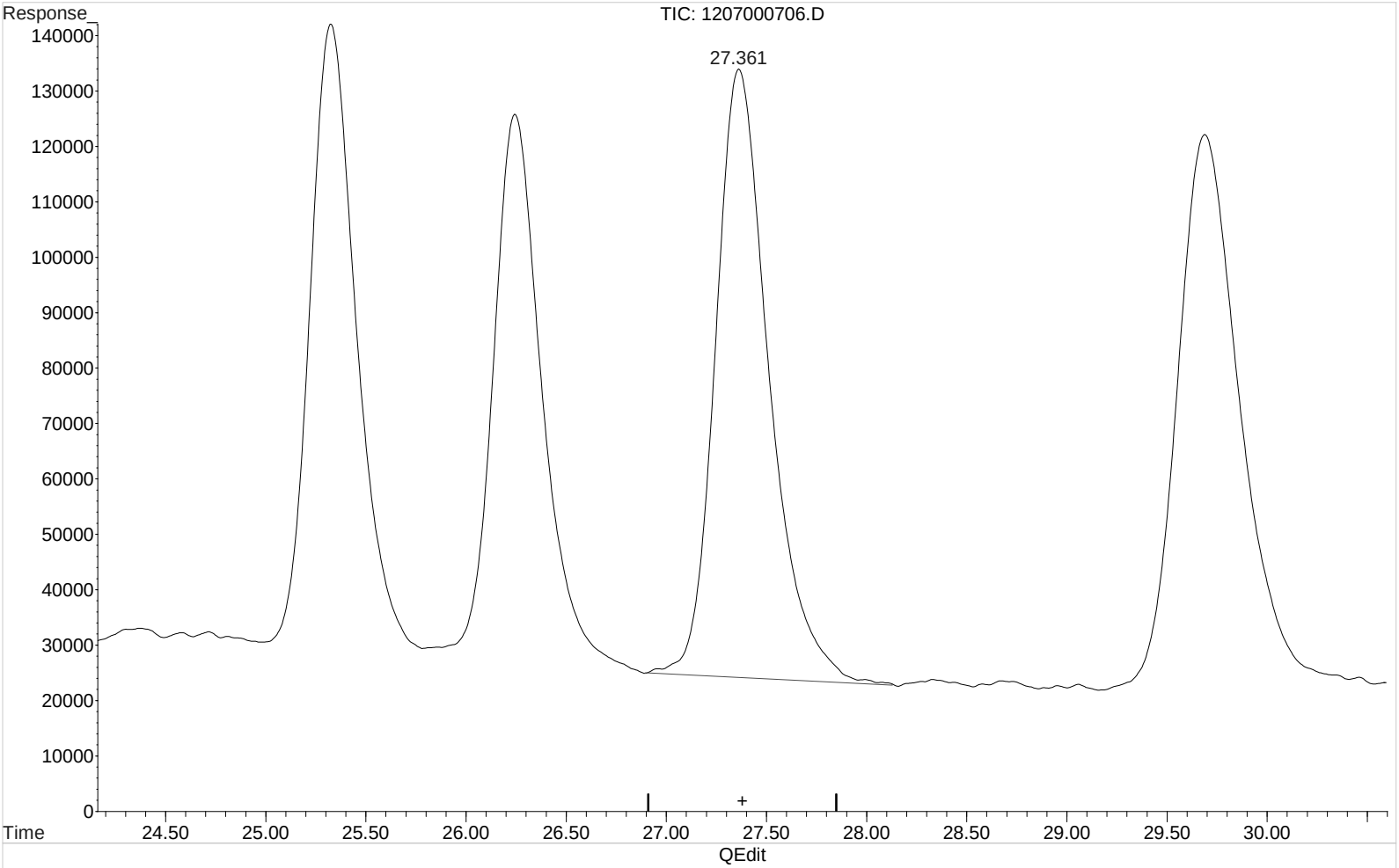
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.361min 101.964 ug/L m

response 2049432

Manual Integration:

After

Accidentally deleted, reintegrated

12/08/16

(+) = Expected Retention Time

(b) (6)

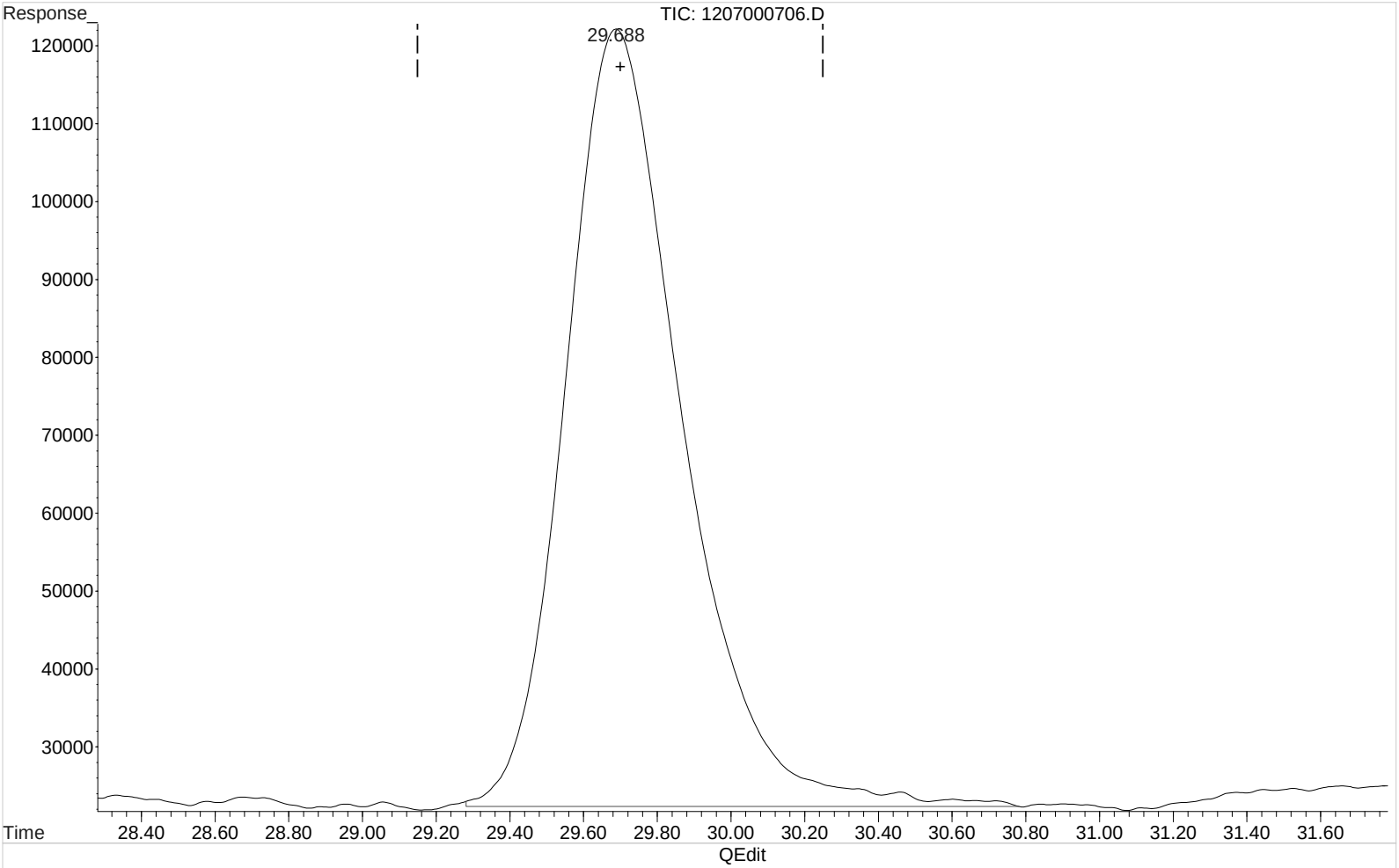
2/08/16

2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(18) 1-Chloro-3-Nitrobenzene (S)

29.688min 97.323 ug/L

response 2195729

Manual Integration:

Before

12/08/16

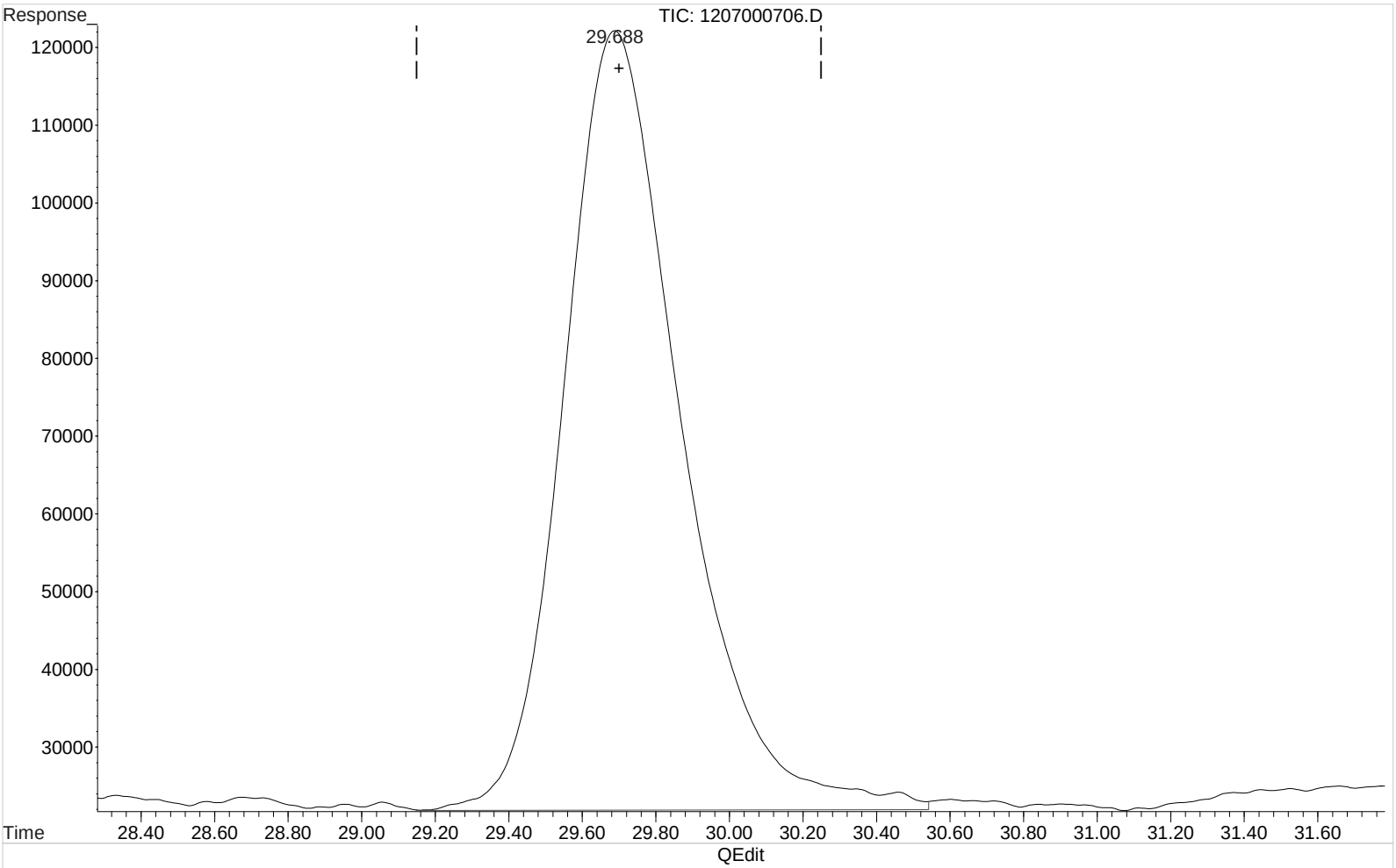
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(18) 1-Chloro-3-Nitrobenzene (S)

29.688min 98.517 ug/L m

response 2222660

Manual Integration:

After

BLC

12/08/16

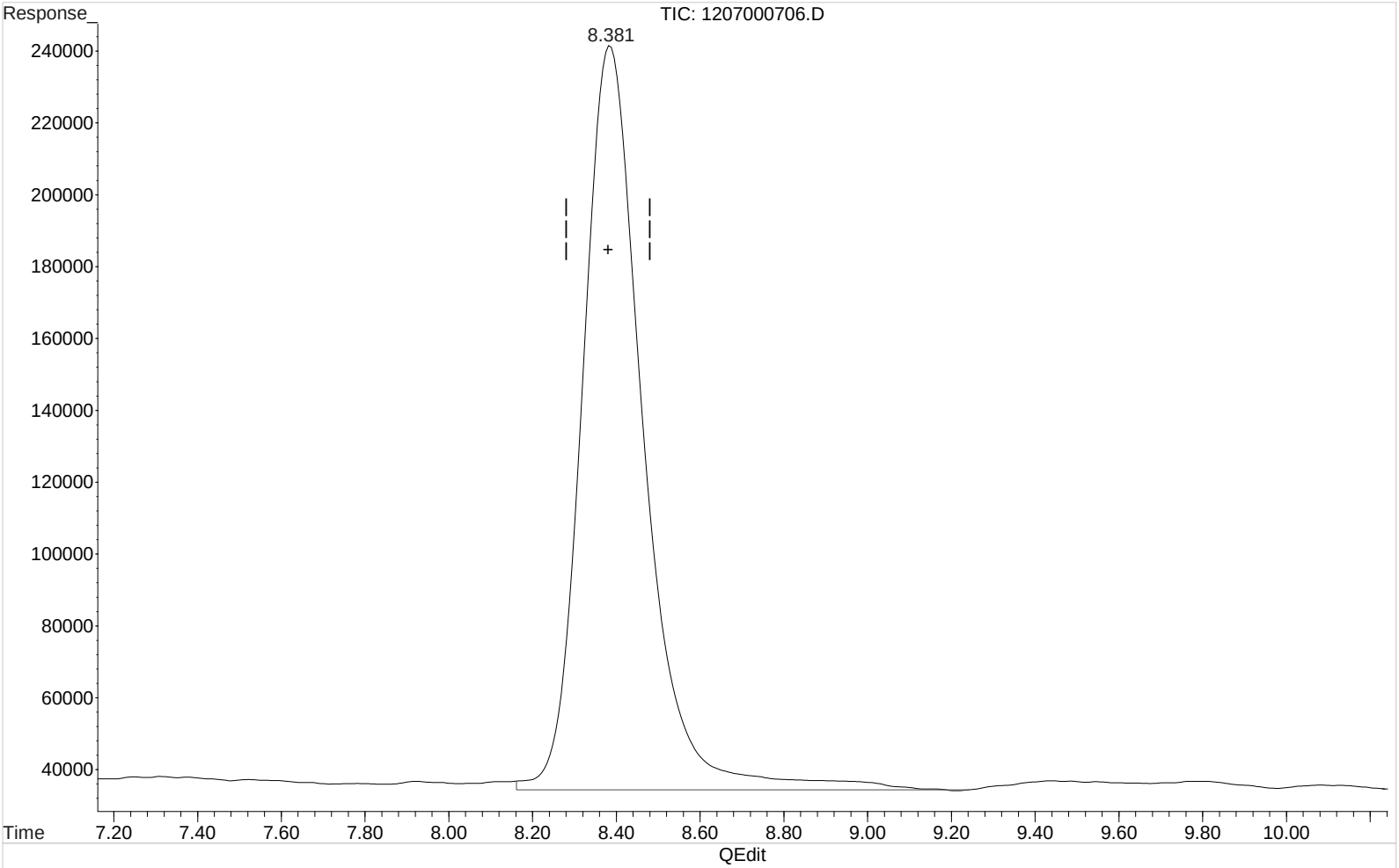
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(4) RDX (T)

8.381min 104.100 ug/L

response 2112981

Manual Integration:

Before

12/08/16

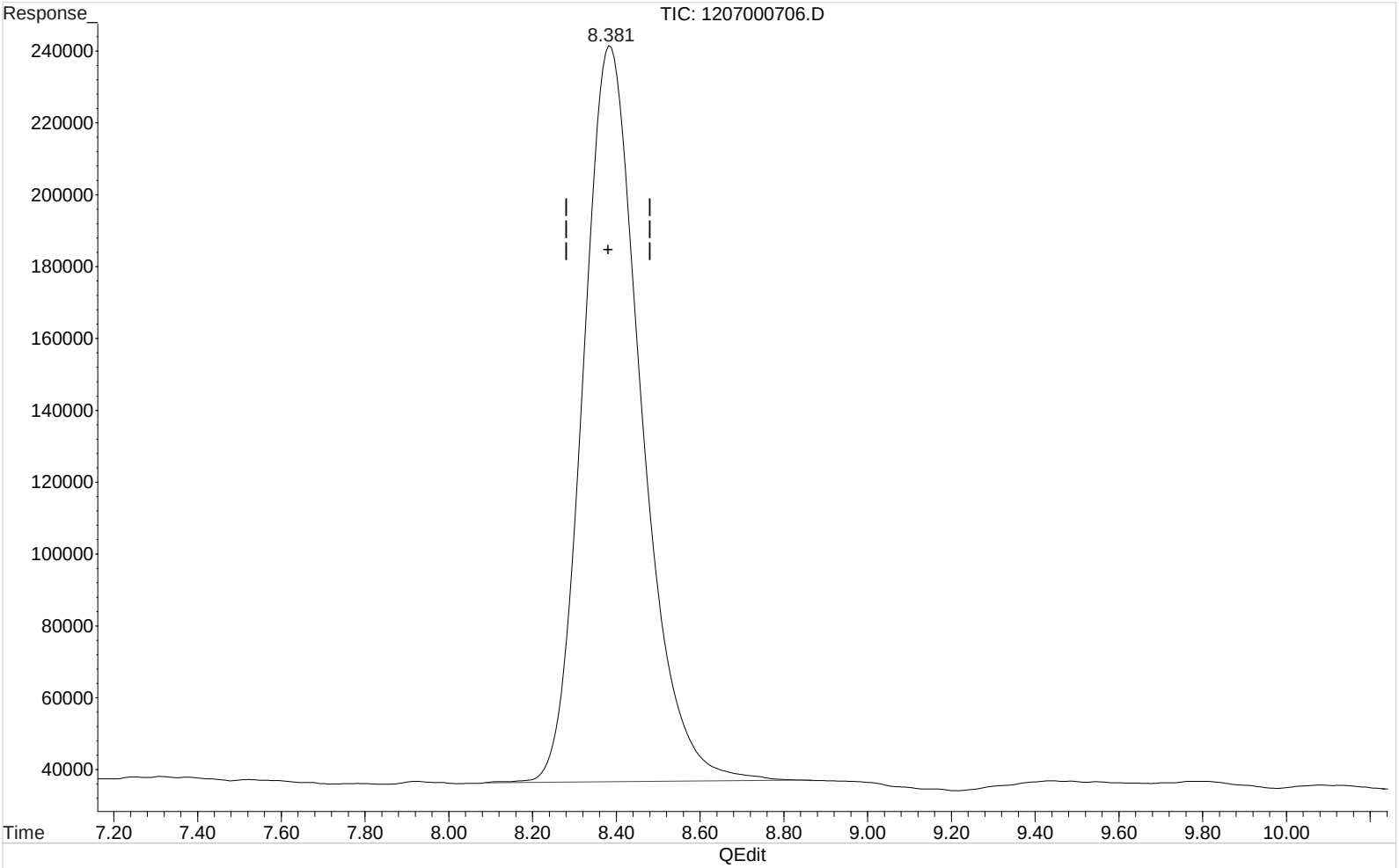
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(4) RDX (T)

8.381min 97.807 ug/L m

response 1985238

Manual Integration:

After

BLC

12/08/16

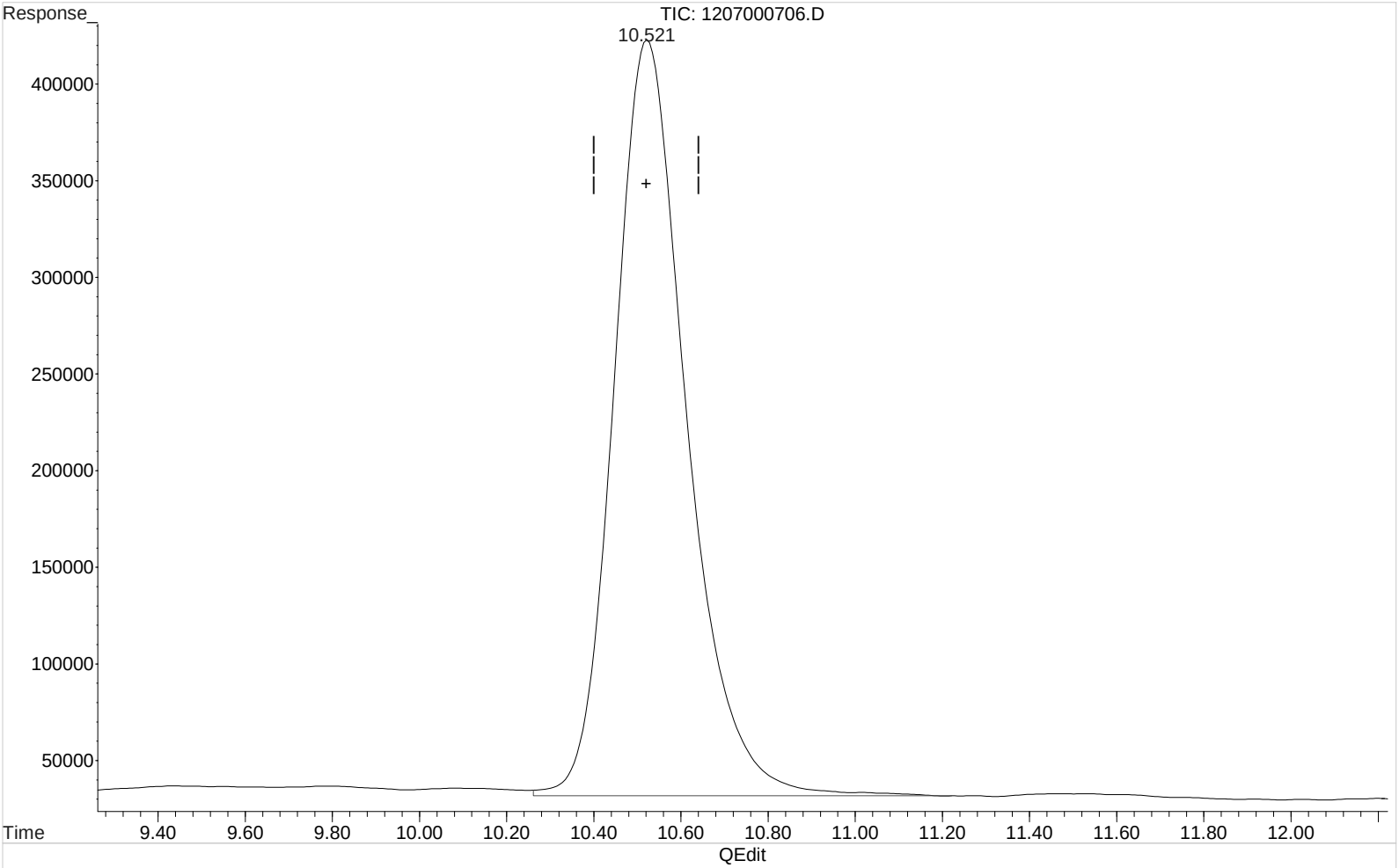
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(5) 1,3,5-TNB (T)

10.521min 99.668 ug/L

response 4529404

Manual Integration:

Before

12/08/16

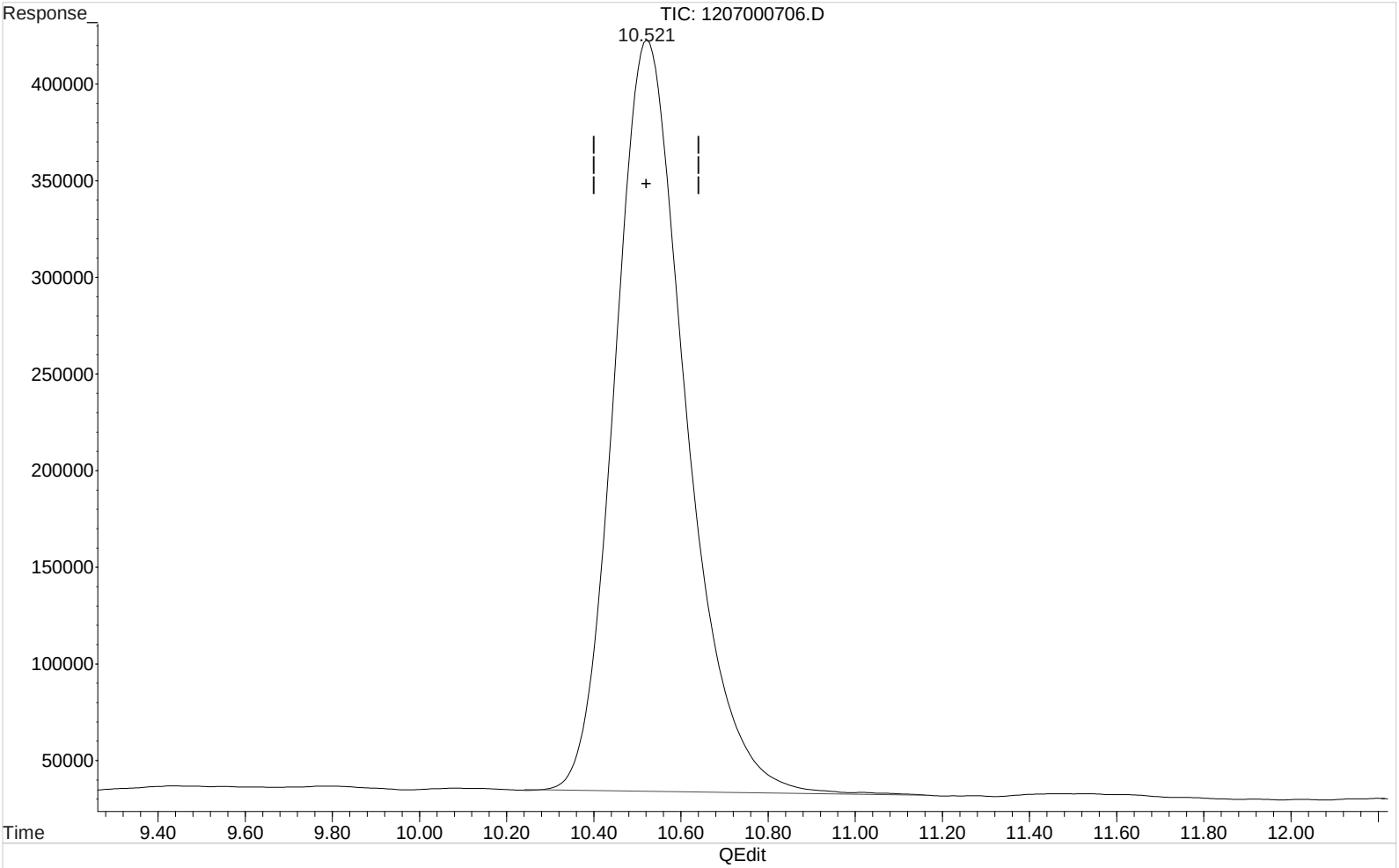
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(5) 1,3,5-TNB (T)

10.521min 97.549 ug/L m

response 4433120

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)

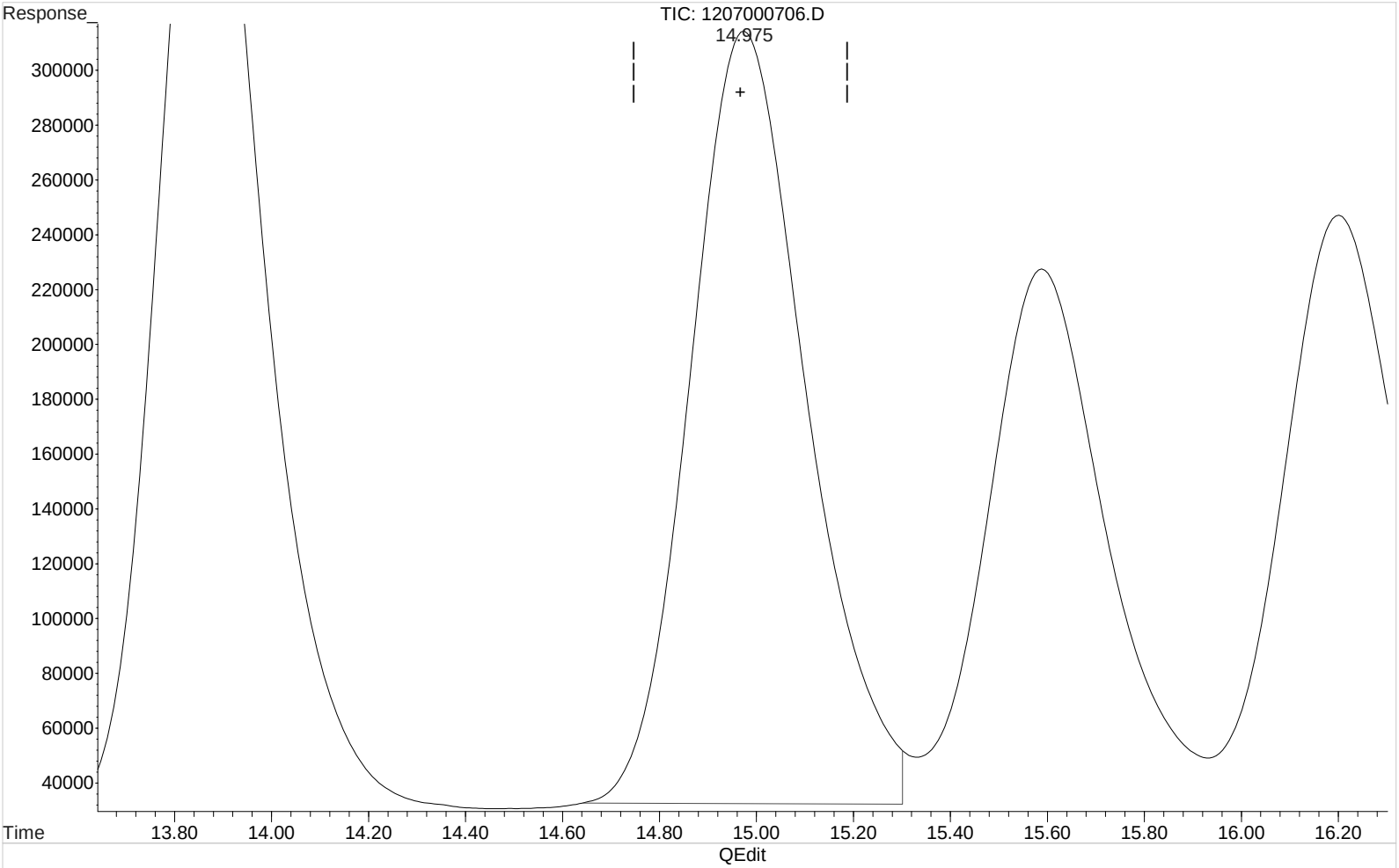
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.975min 97.288 ug/L

response 4690794

Manual Integration:

Before

12/08/16

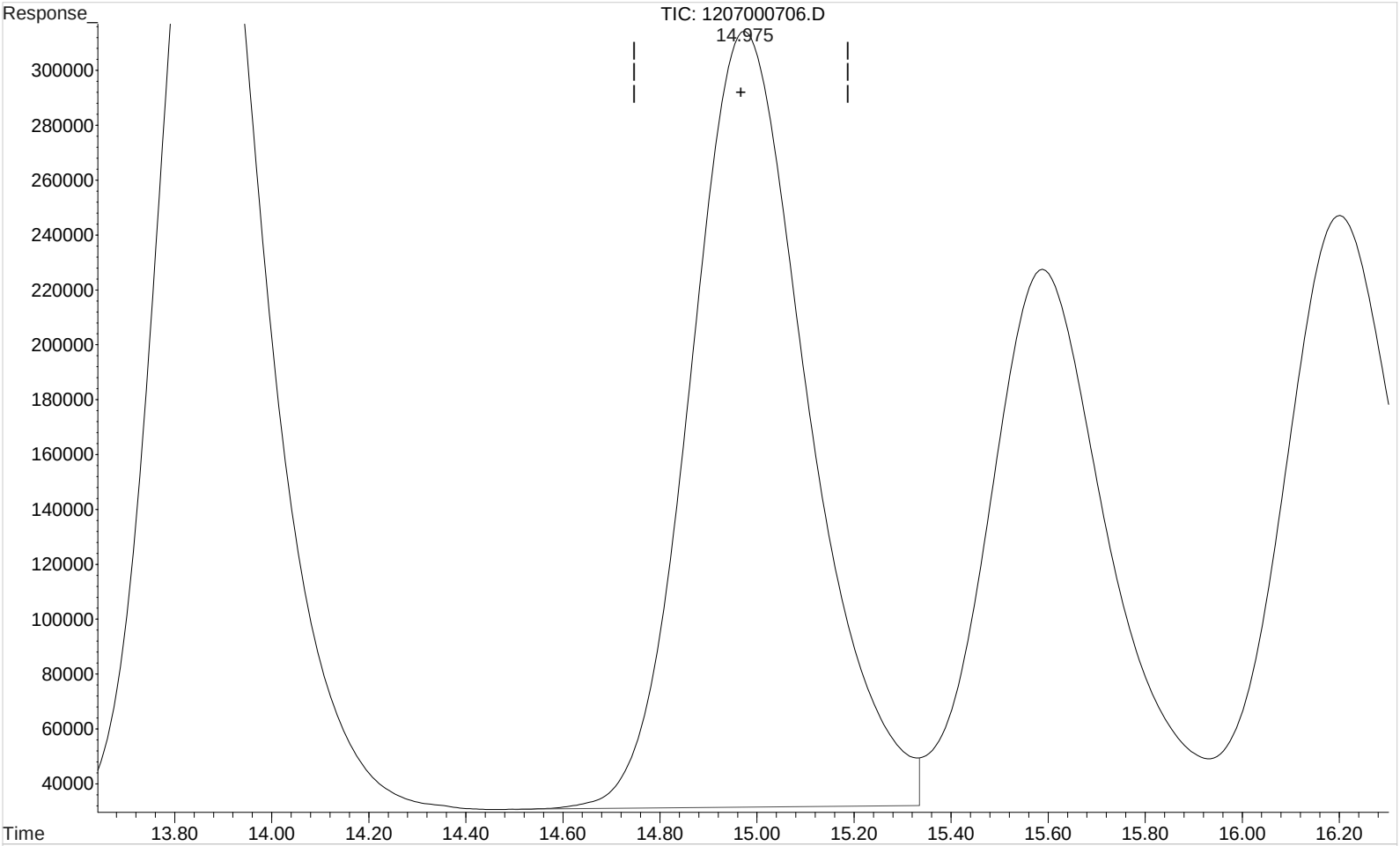
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.975min 98.935 ug/L m

response 4770181

Manual Integration:

After

BLC

12/08/16

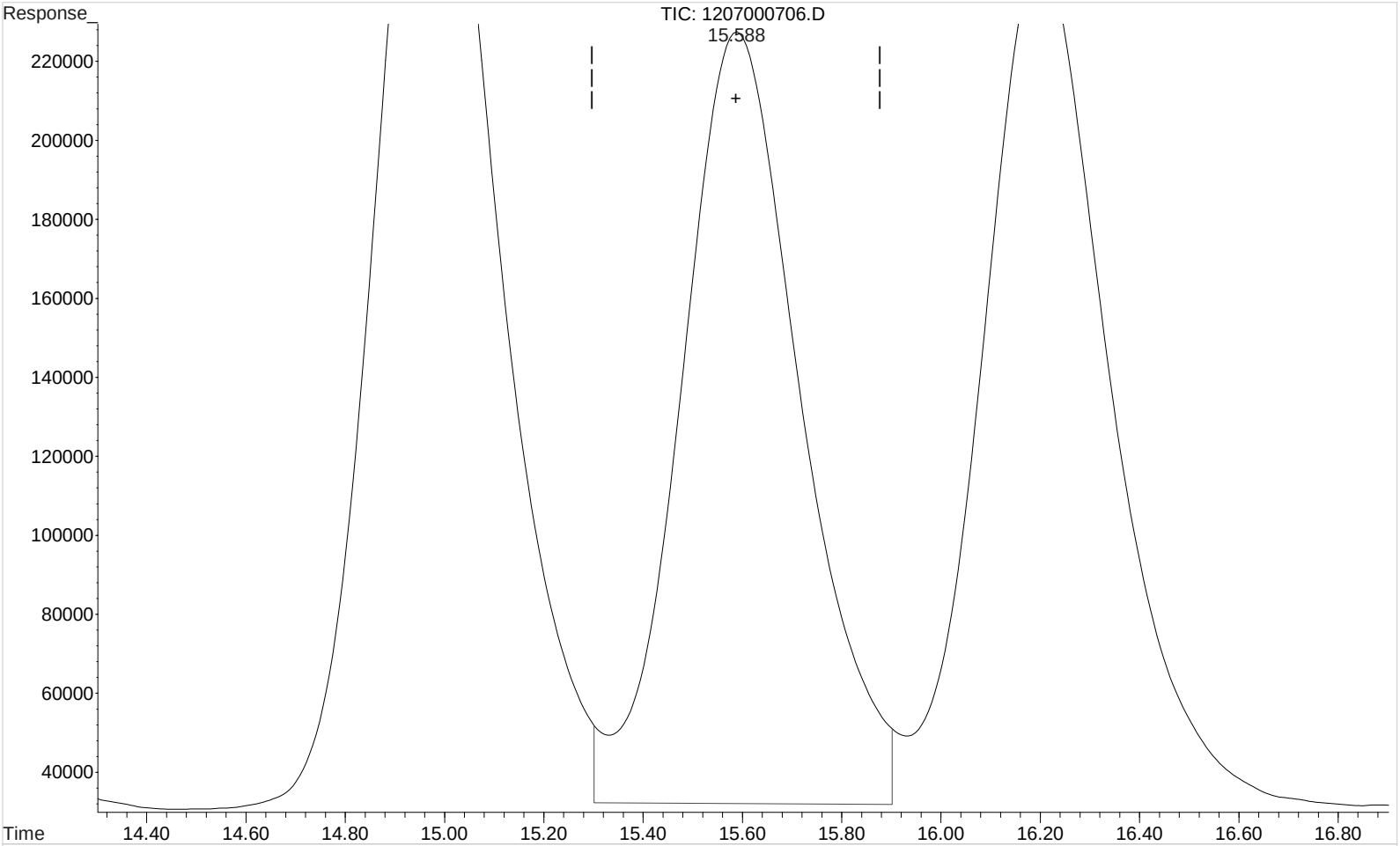
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(8) Tetryl (T)

15.588min 97.618 ug/L

response 3280904

Manual Integration:

Before

12/08/16

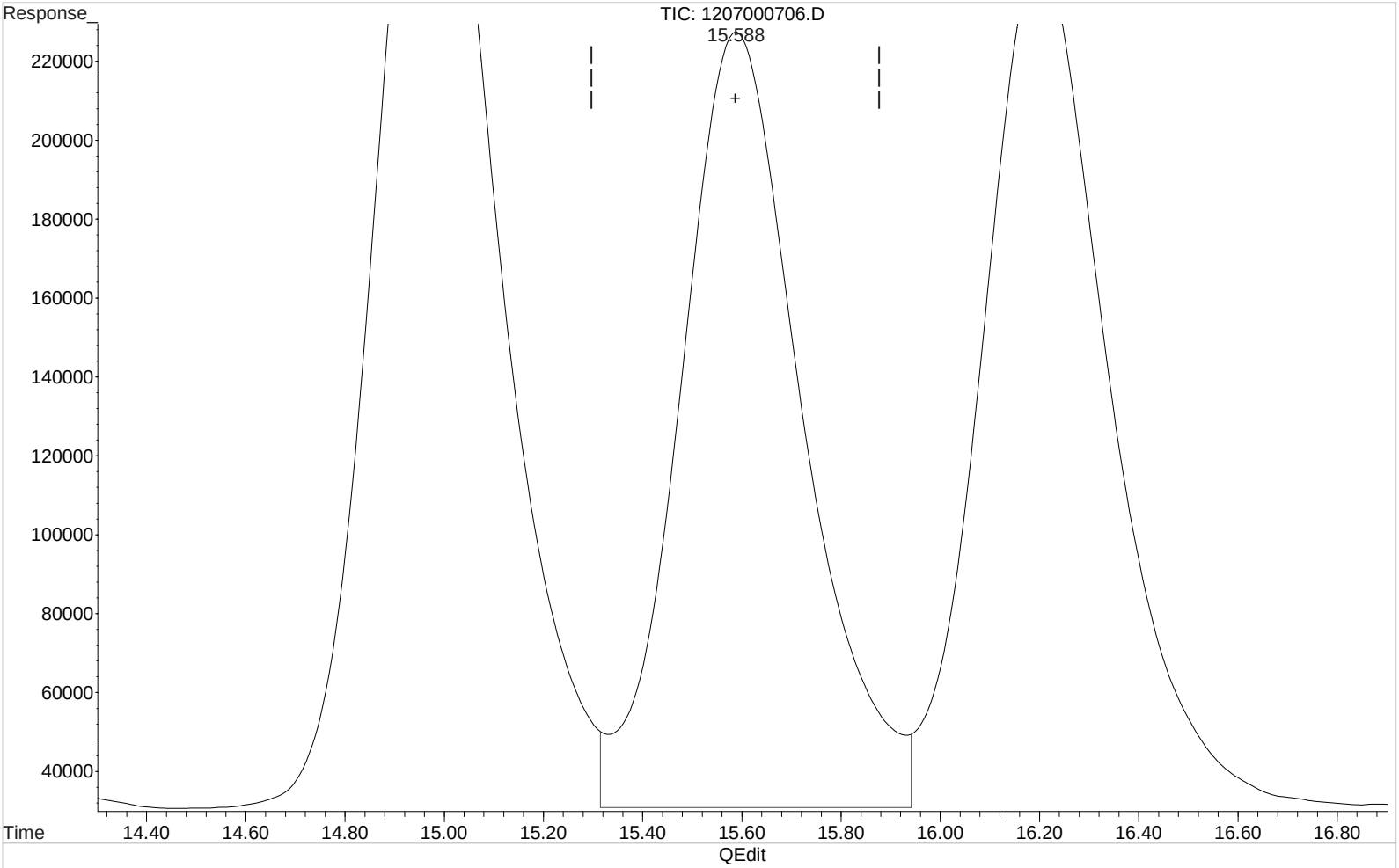
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(8) Tetryl (T)

15.588min 99.774 ug/L m

response 3353341

Manual Integration:

After

BLC

12/08/16

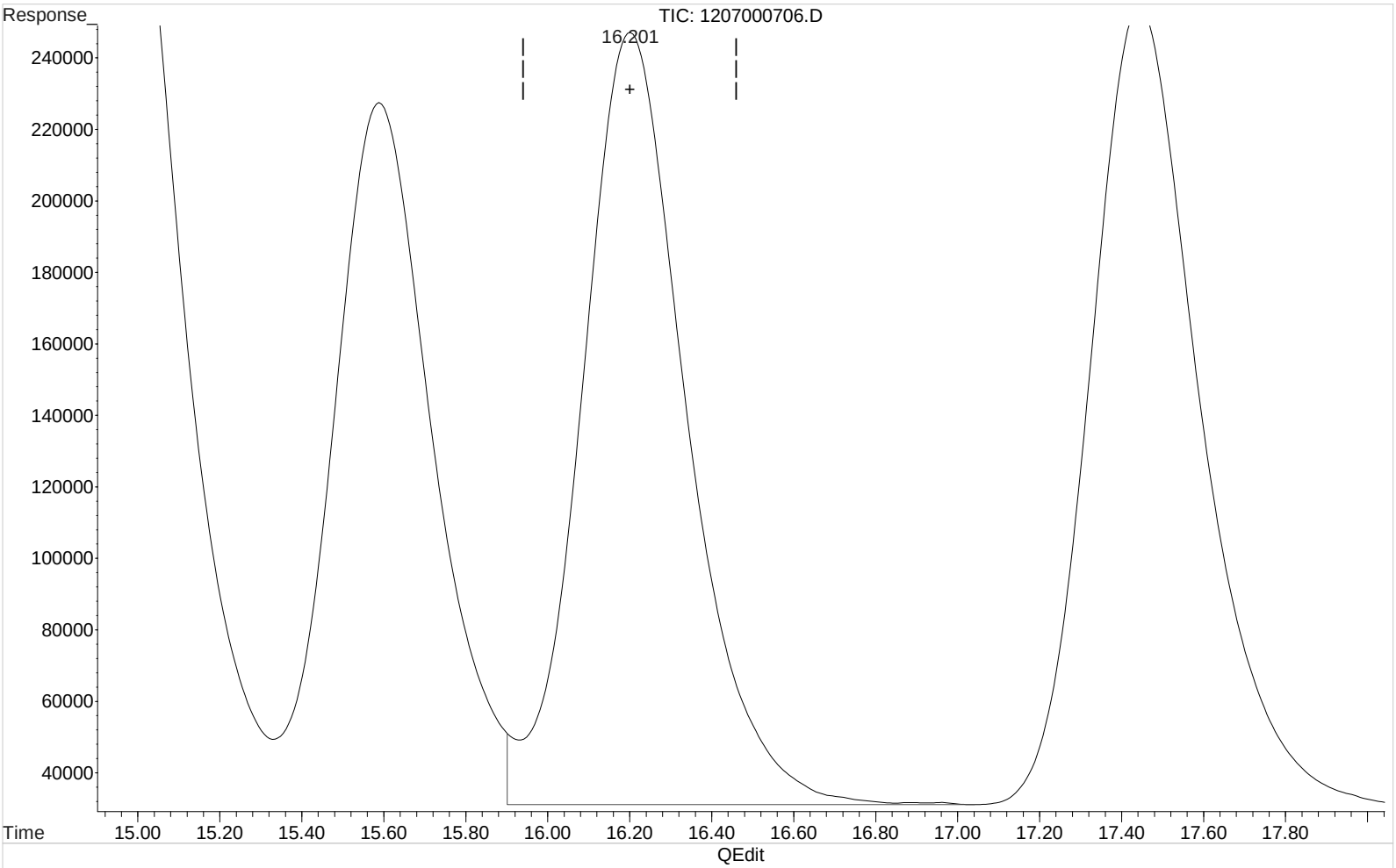
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.201min 97.938 ug/L

response 3839592

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

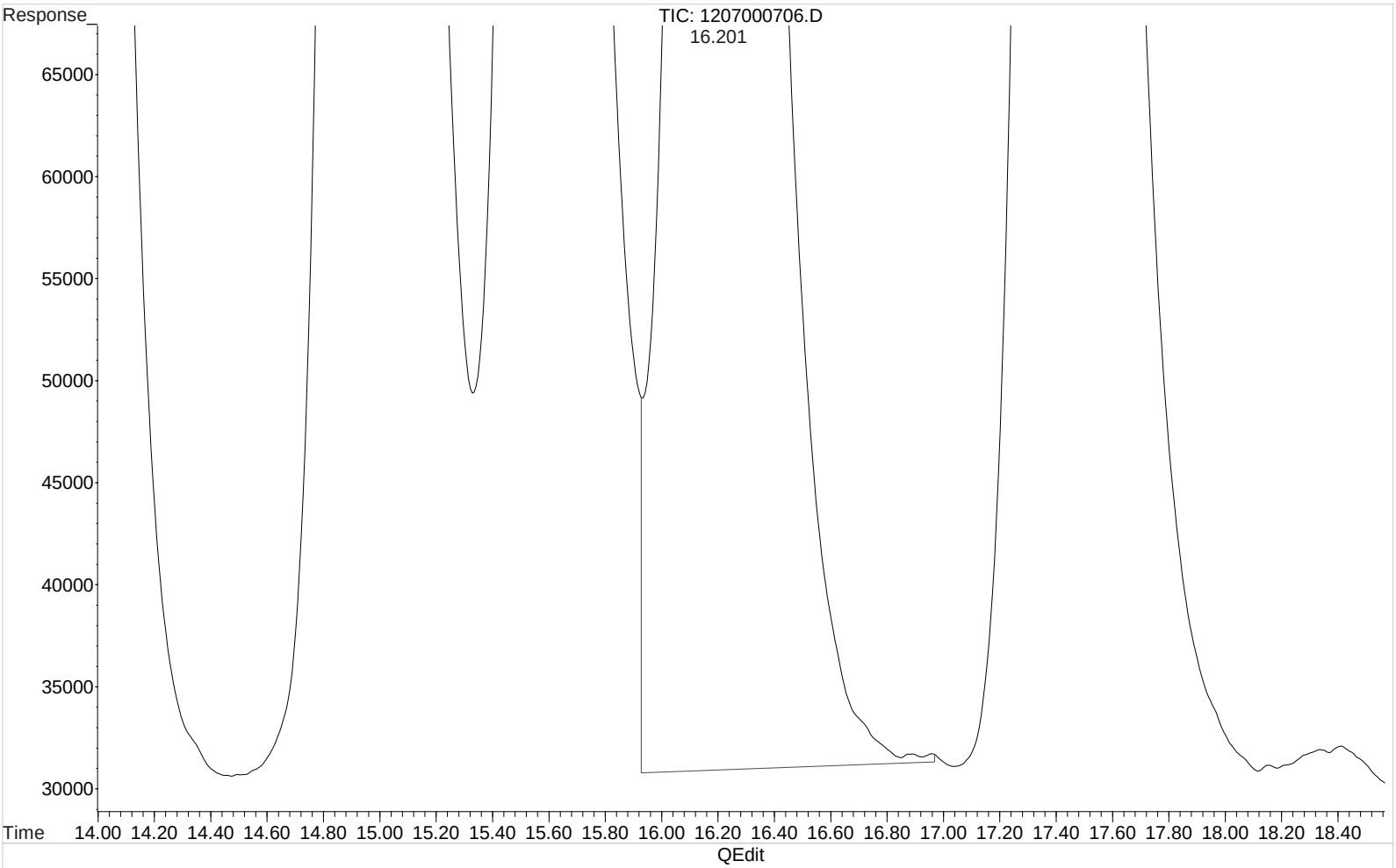
2/08/16

2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.201min 97.226 ug/L m

response 3811670

Manual Integration:

Before

12/08/16

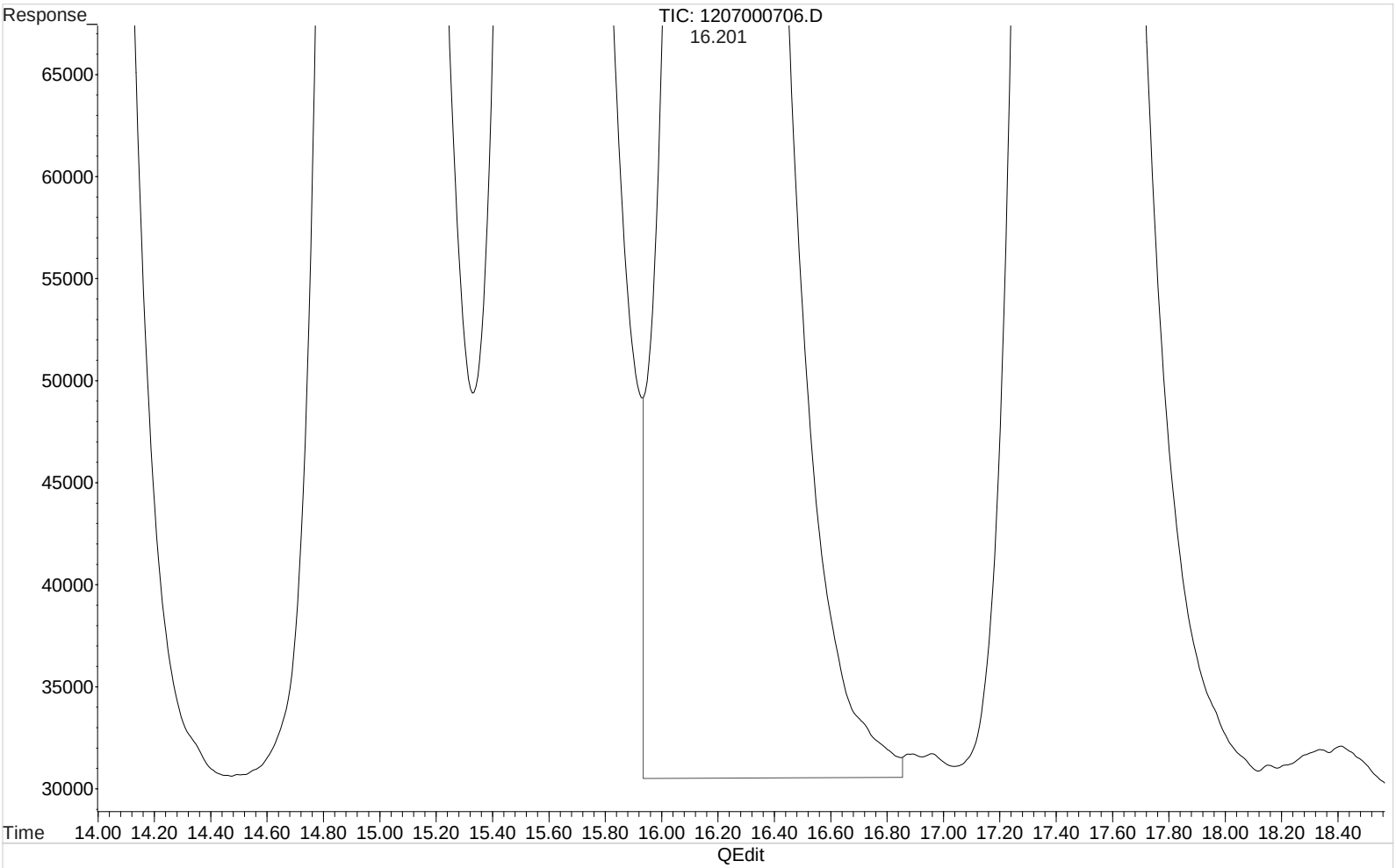
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.201min 97.660 ug/L m

response 3828698

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:13:39 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
18)	S	1-Chloro-3-Nitrobenzene	29.700	4361045	194.259	ug/L	m
		Target Compounds					
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	4.786	2435762	205.004	ug/L	
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	8.386	3921355	194.616	ug/L	
5)	T	1,3,5-TNB	10.520	8886477	197.154	ug/L	
6)	T	1,3-DNB	13.866	12031824	196.315	ug/L	
7)	T	3,5-Dinitroaniline	14.980	9487220	197.468	ug/L	m
8)	T	Tetryl	15.593	6714428	199.929	ug/L	m
9)	T	Nitrobenzene	16.206	7632300	196.210	ug/L	m
10)	T	2,4,6-TNT	17.433	8434124	205.226	ug/L	
11)	T	4-Amino-2,6-DNT	19.193	5924218	203.601	ug/L	
12)	T	2-Amino-4,6-DNT	20.026	8501432	194.761	ug/L	
13)	T	2,6-DNT	21.753	4897380	201.372	ug/L	m
14)	T	2,4-DNT	22.206	11809220	201.727	ug/L	m
15)	T	2-NT	25.326	3610858	201.453	ug/L	m
16)	T	4-NT	26.253	3198950	197.617	ug/L	m
17)	T	3-NT	27.380	4020214	198.714	ug/L	

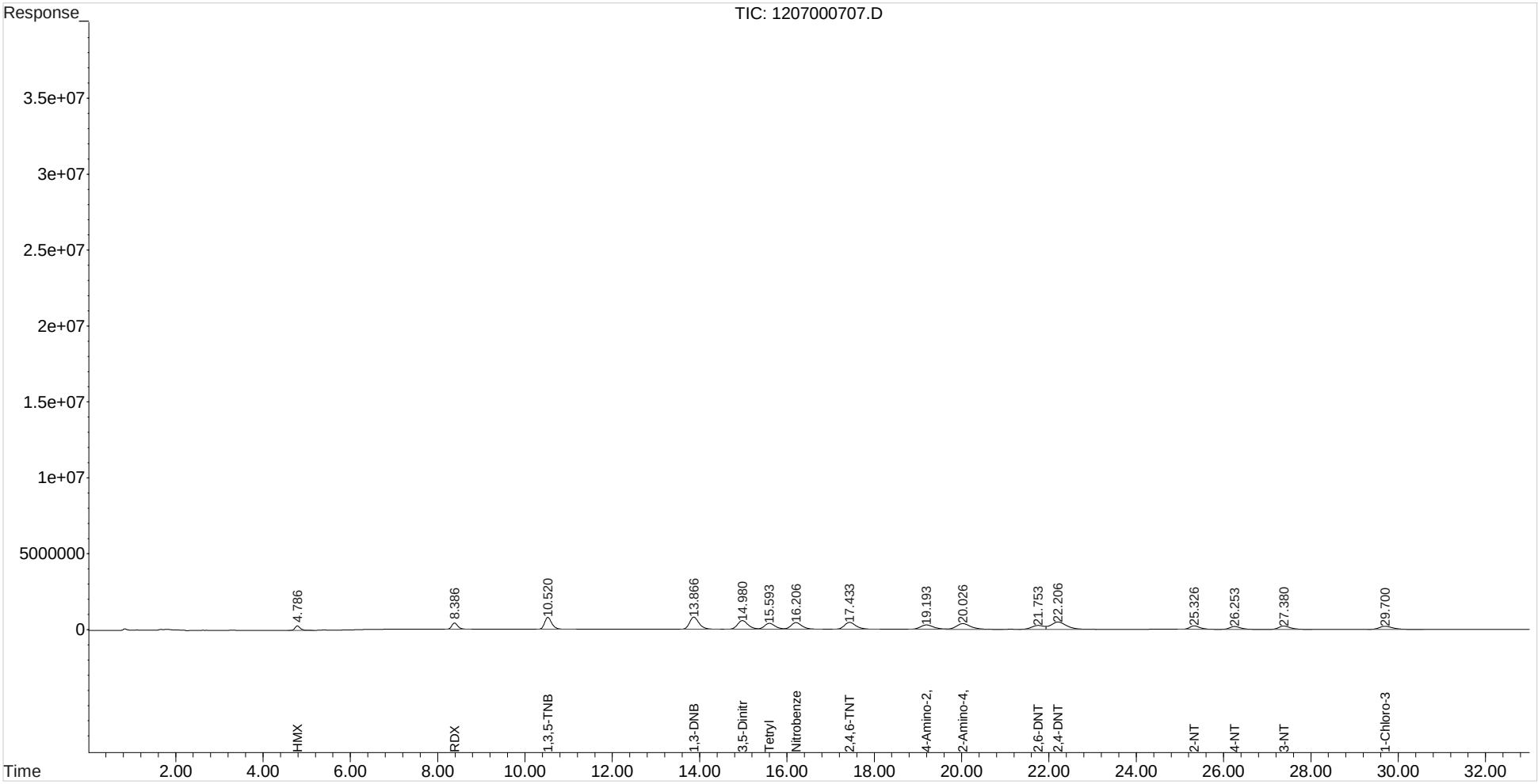
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:13:39 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(b) (6)

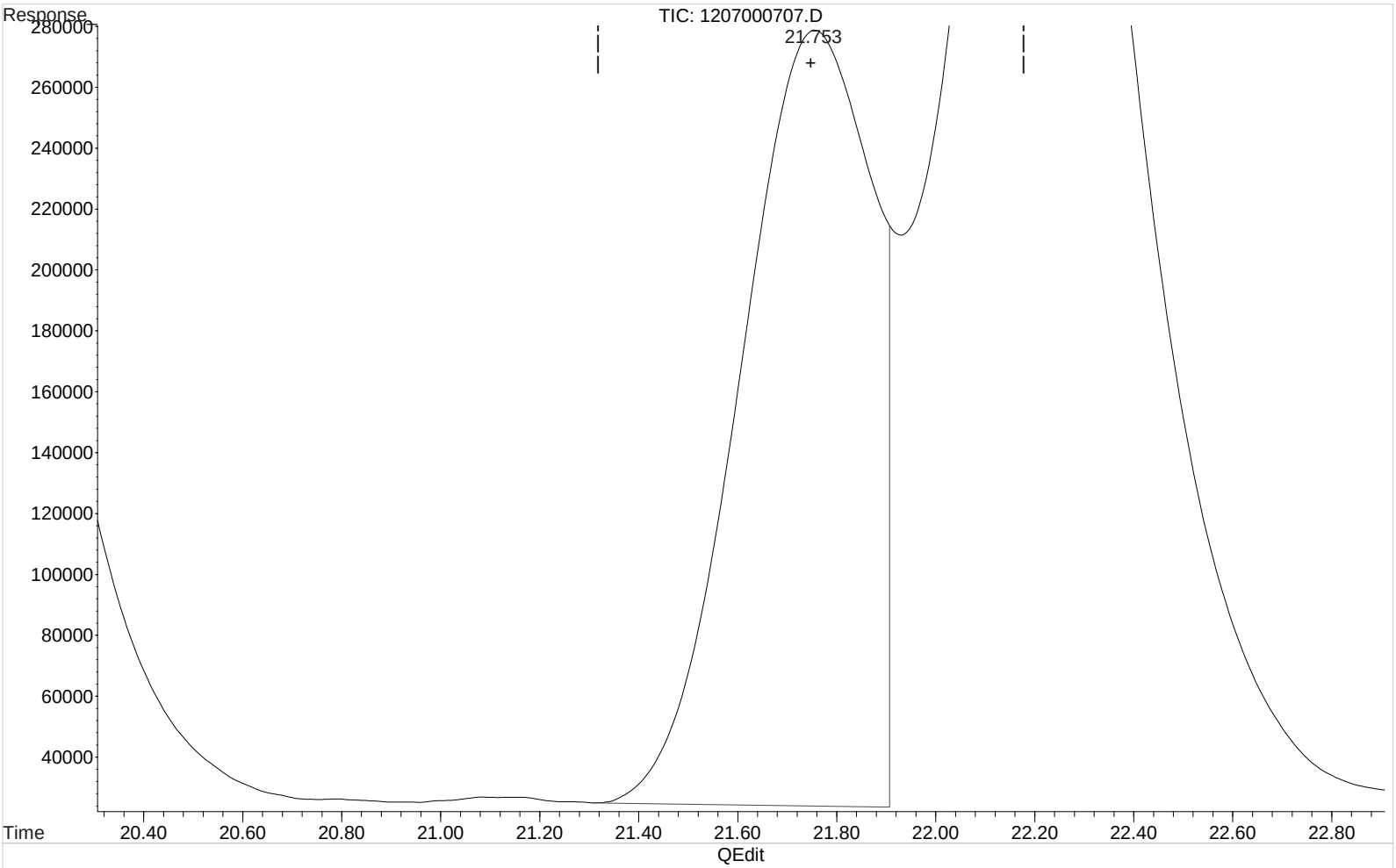
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.753min 193.577 ug/L

response 4707799

Manual Integration:

Before

12/08/16

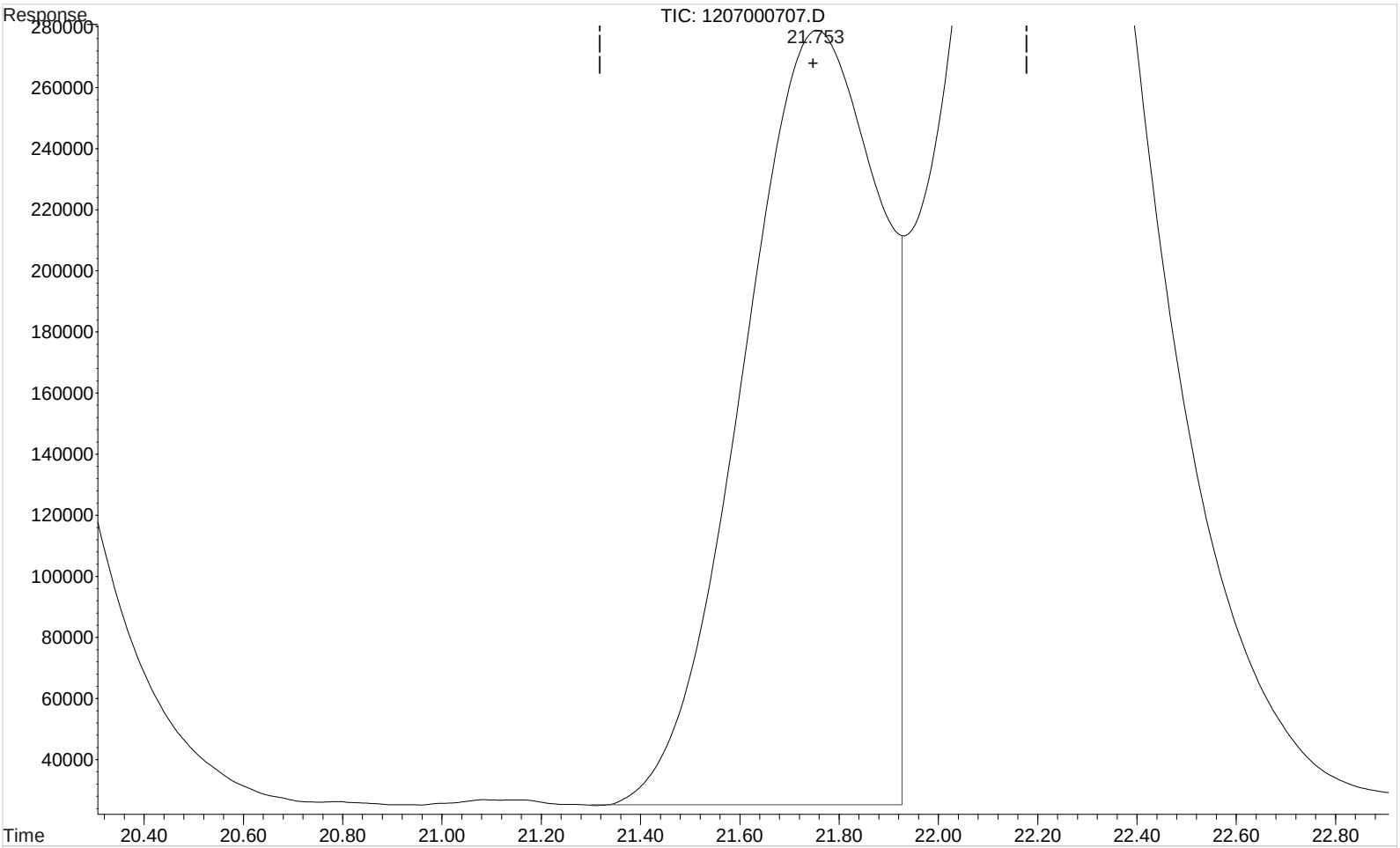
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.753min 201.372 ug/L m

response 4897380

Manual Integration:

After

BLC

12/08/16

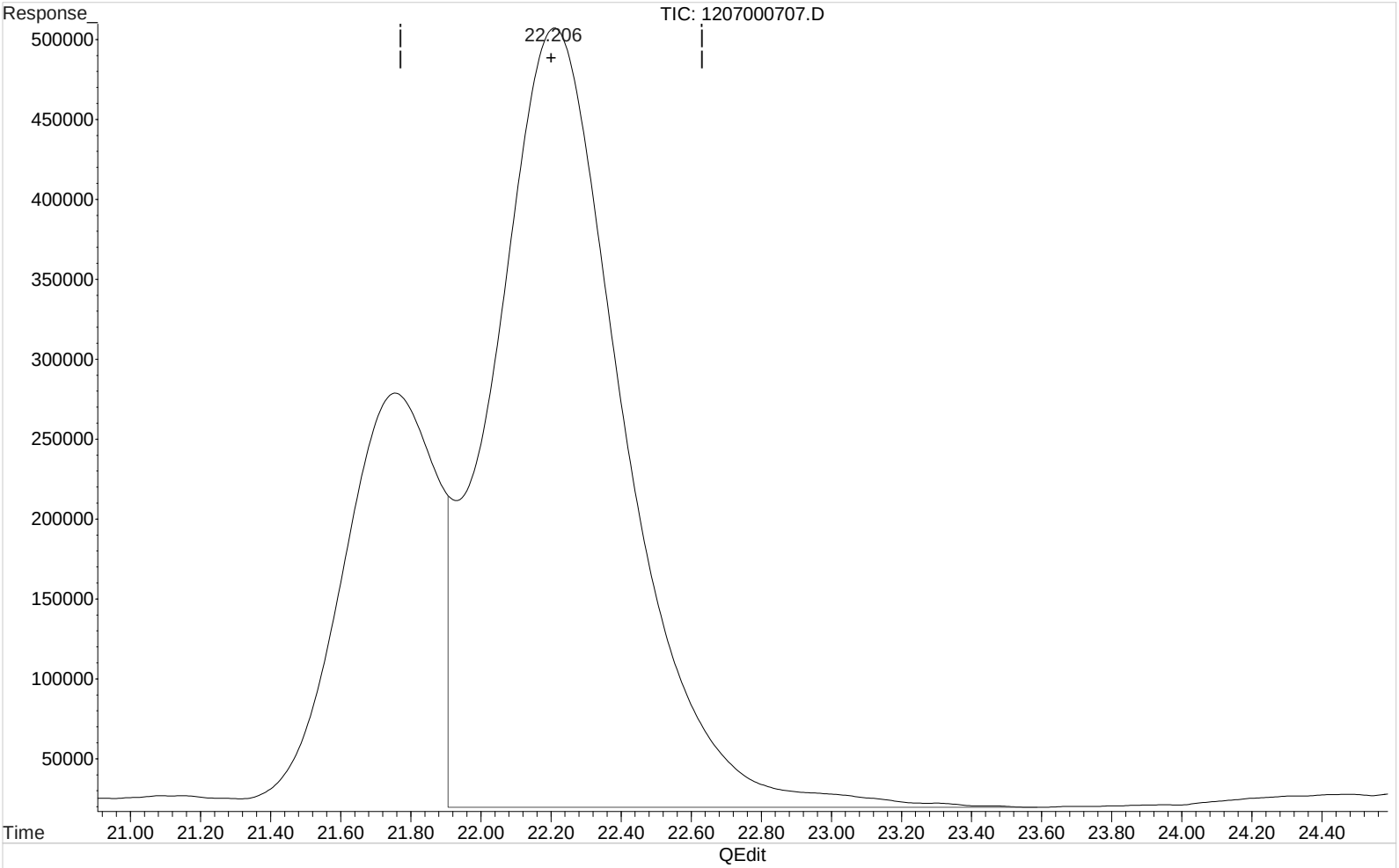
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.206min 215.947 ug/L

response 12641702

Manual Integration:

Before

12/08/16

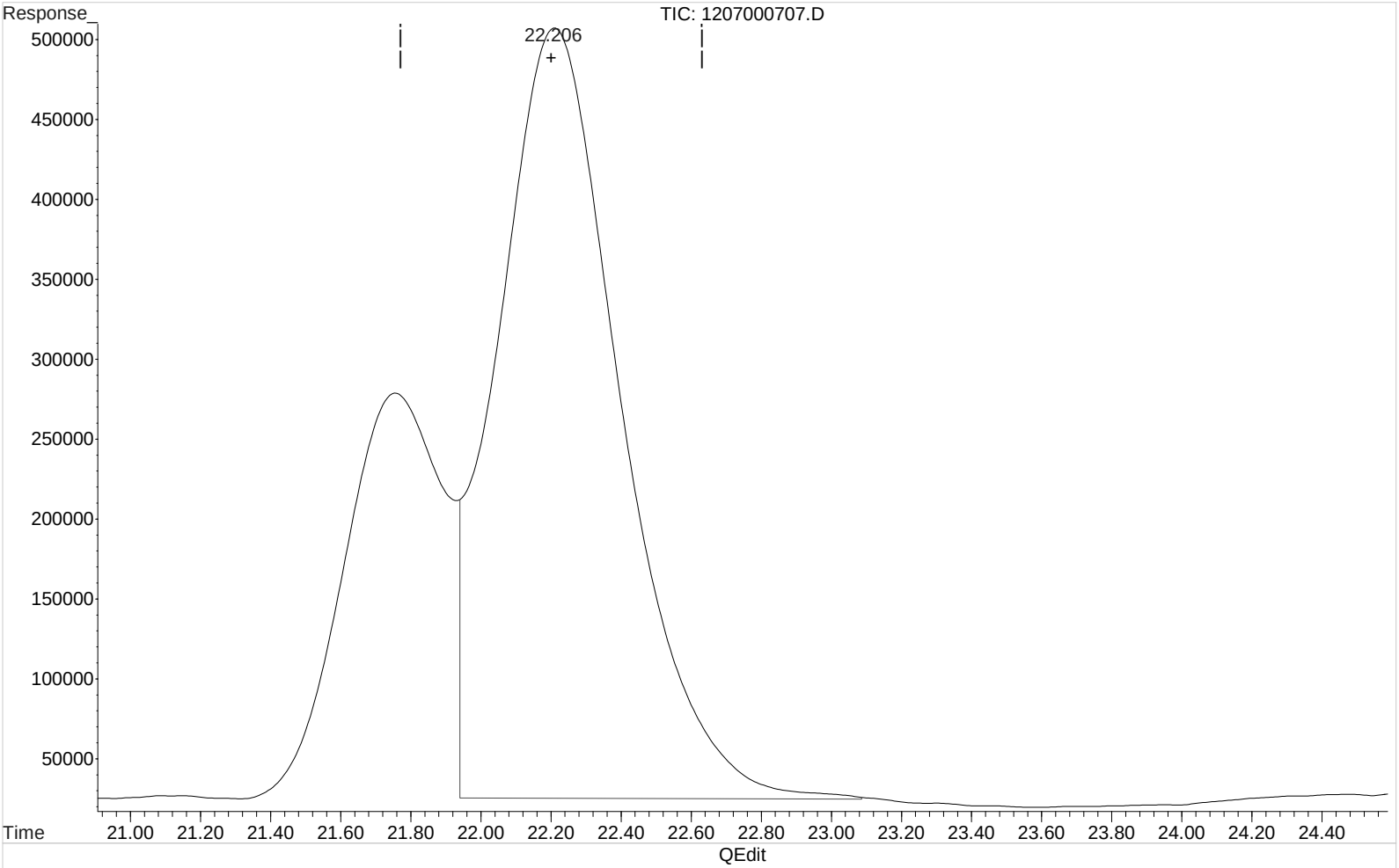
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(14) 2,4-DNT (T)

22.206min 201.727 ug/L m

response 11809220

Manual Integration:

After

BLC

12/08/16

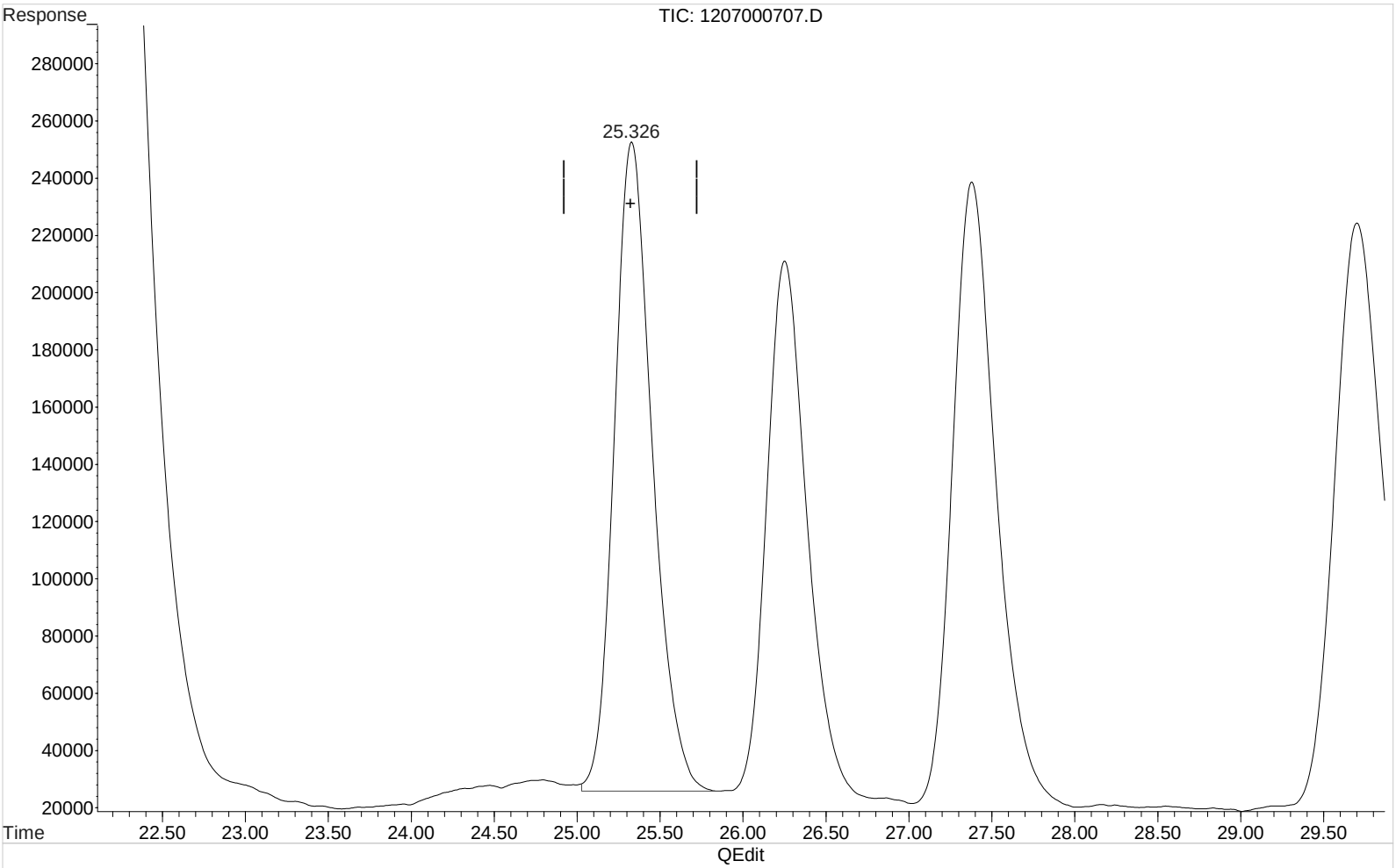
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.326min 202.270 ug/L

response 3625509

Manual Integration:

Before

12/08/16

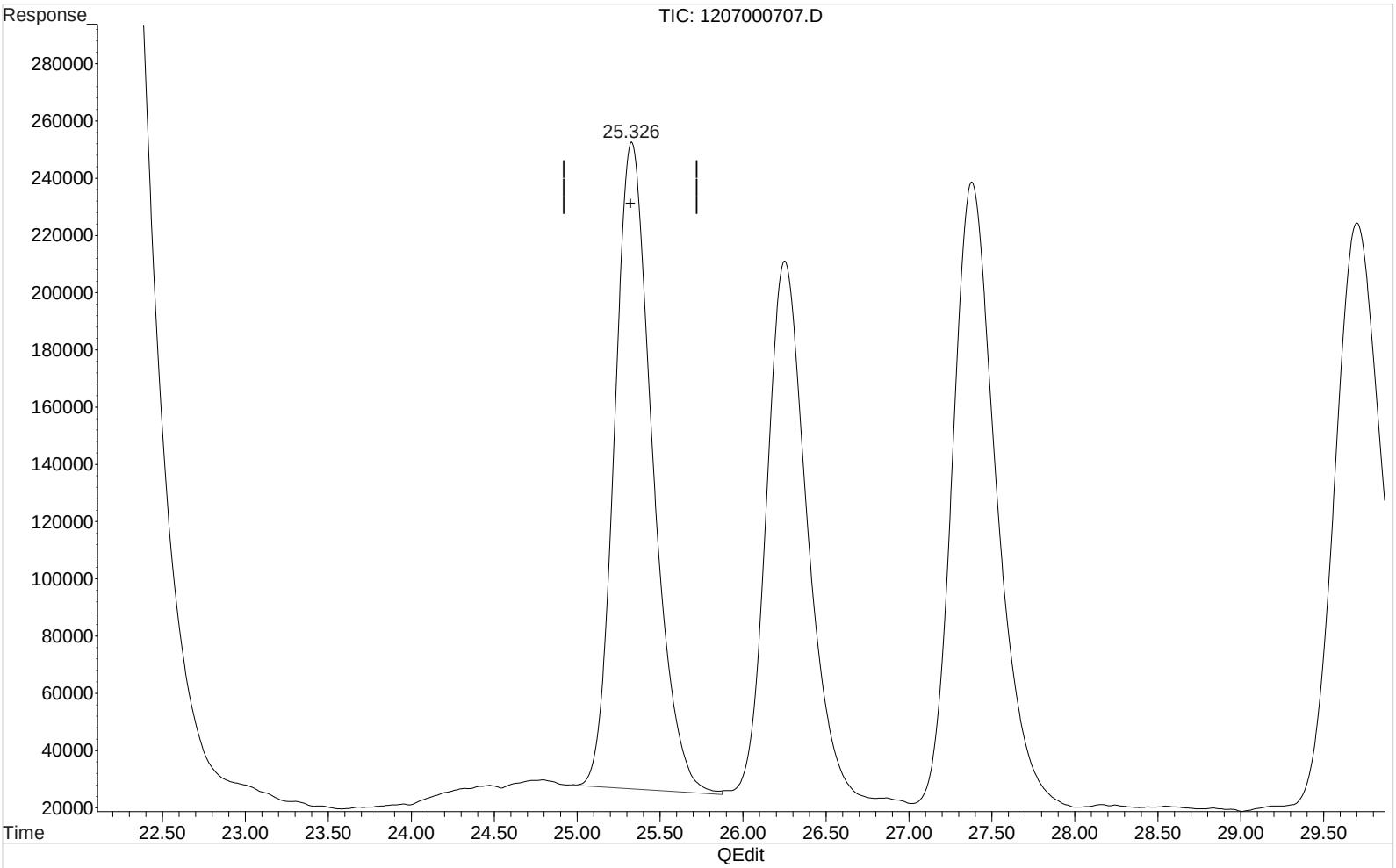
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(15) 2-NT (T)

25.326min 201.453 ug/L m

response 3610858

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)

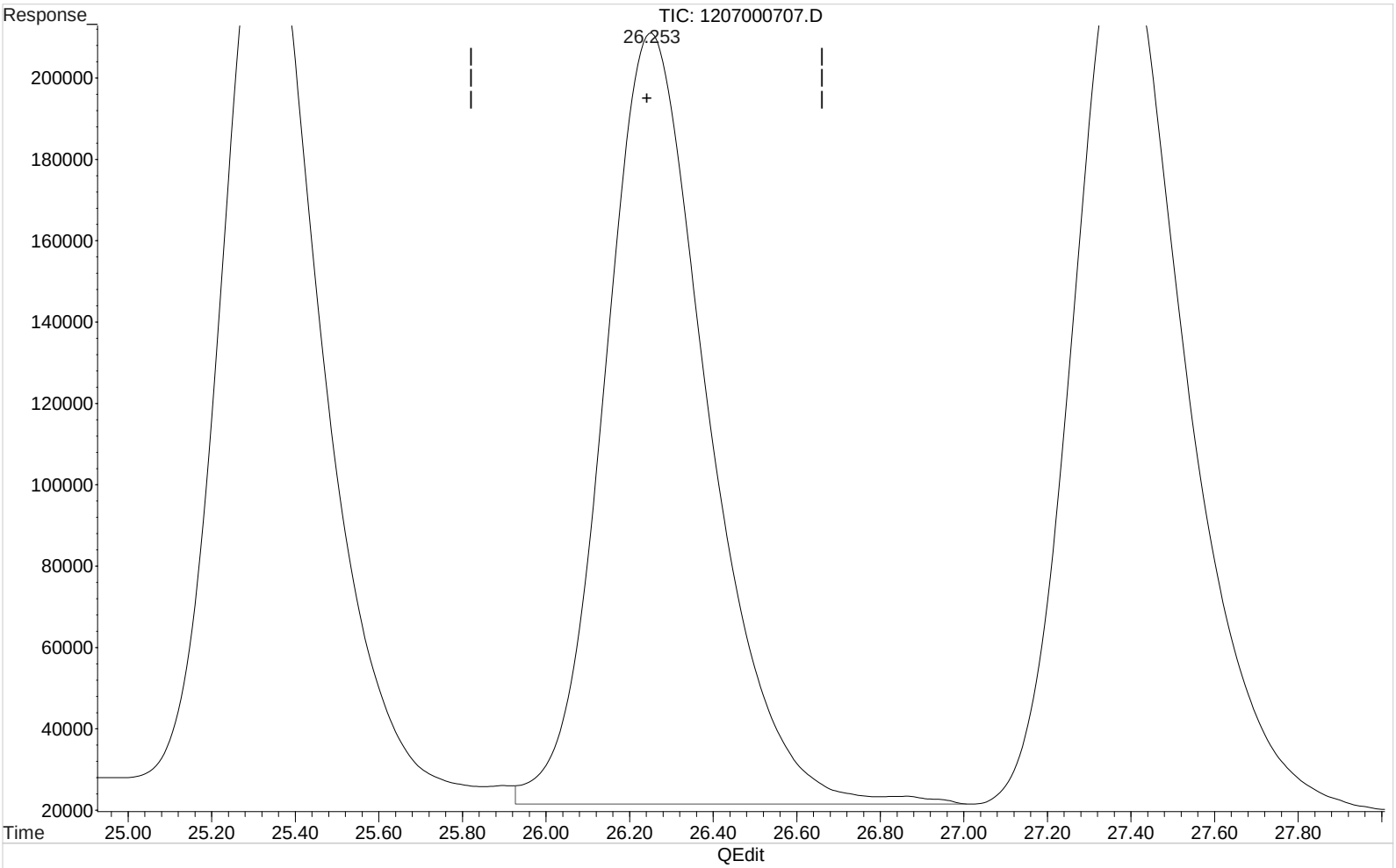
2/08/16

2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.253min 203.164 ug/L

response 3288744

Manual Integration:

Before

12/08/16

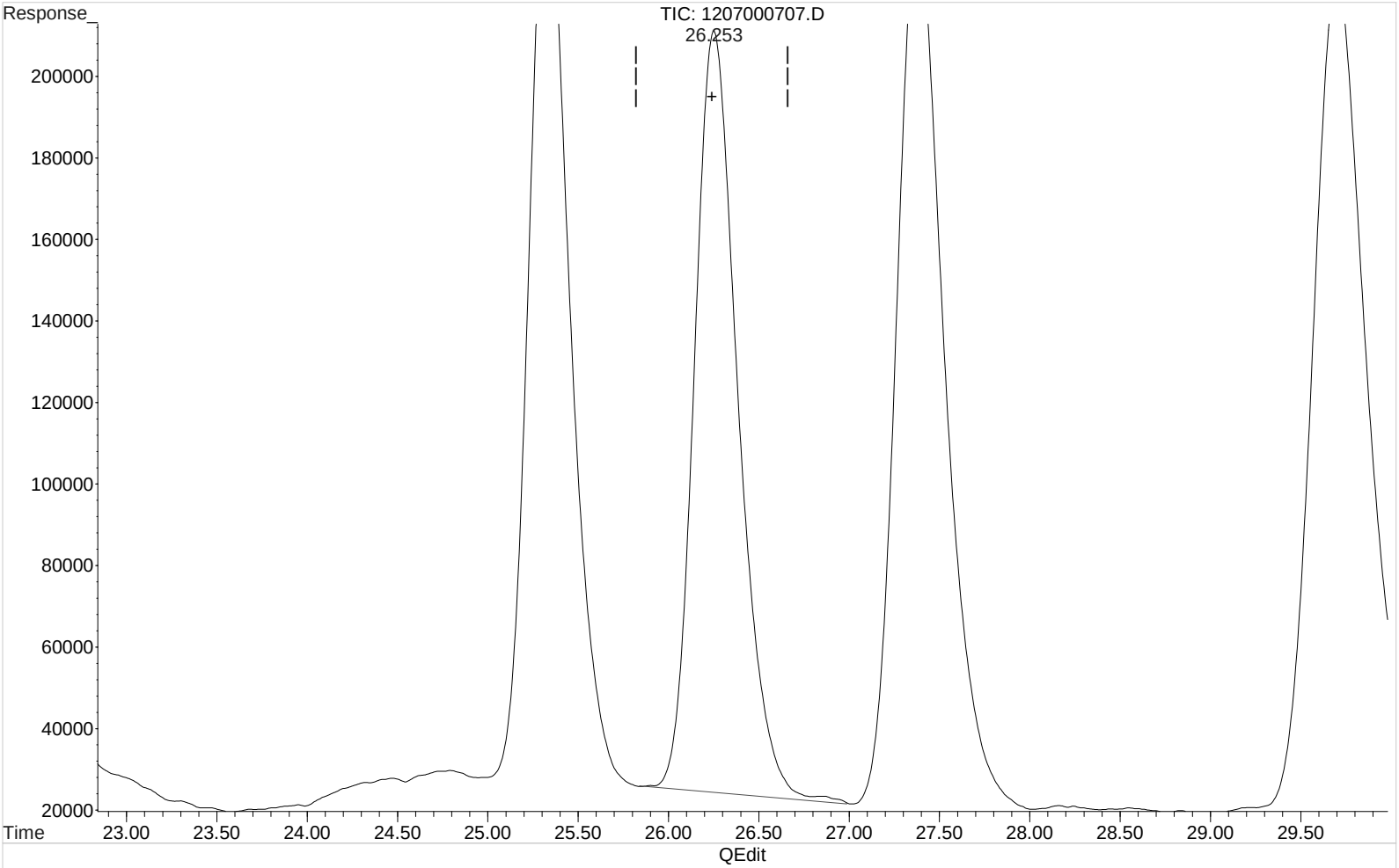
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.253min 195.125 ug/L m

response 3158608

Manual Integration:

Before

12/08/16

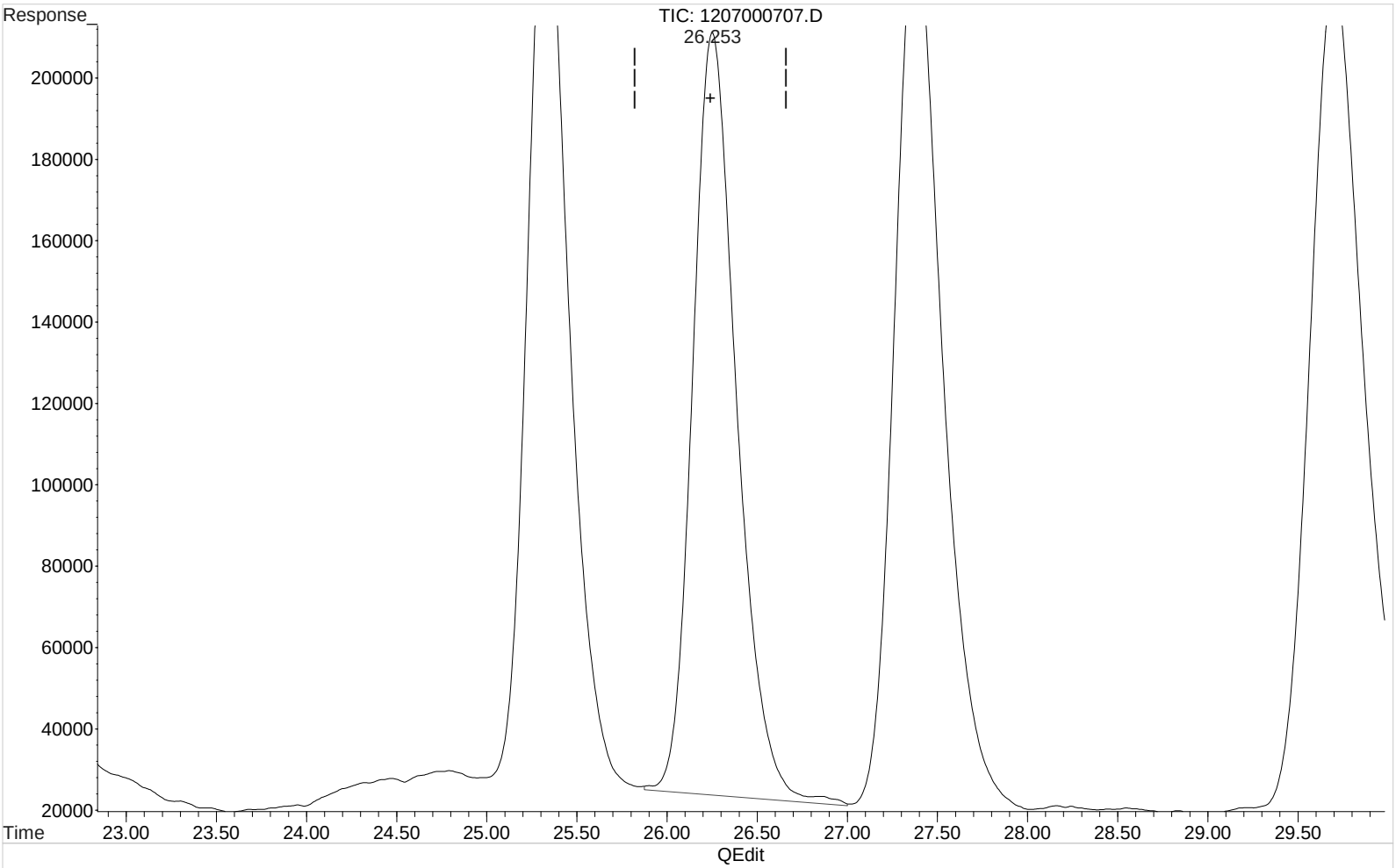
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.253min 197.617 ug/L m

response 3198950

Manual Integration:

After

BLC

12/08/16

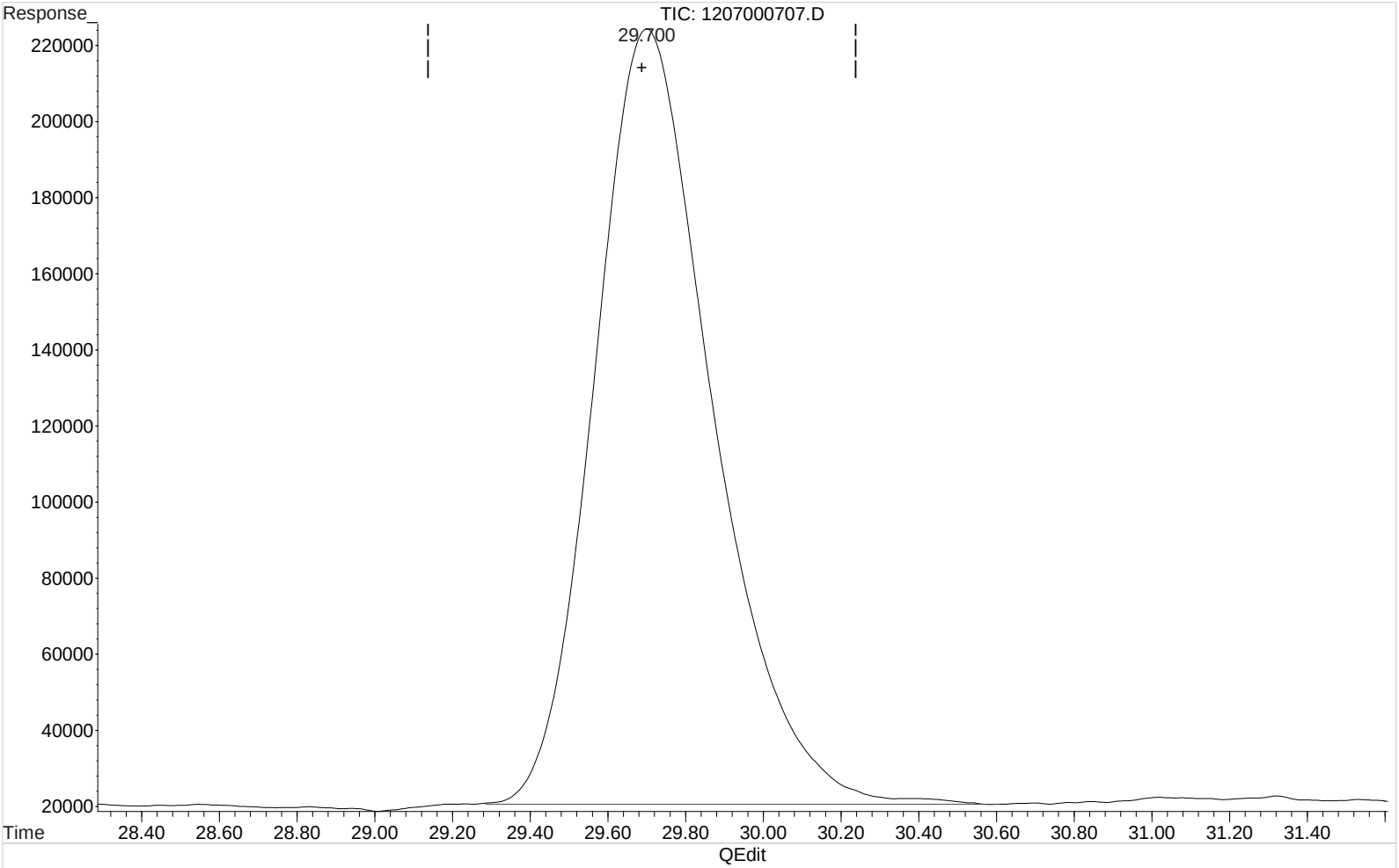
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(18) 1-Chloro-3-Nitrobenzene (S)

29.700min 192.103 ug/L

response 4312645

Manual Integration:

Before

12/08/16

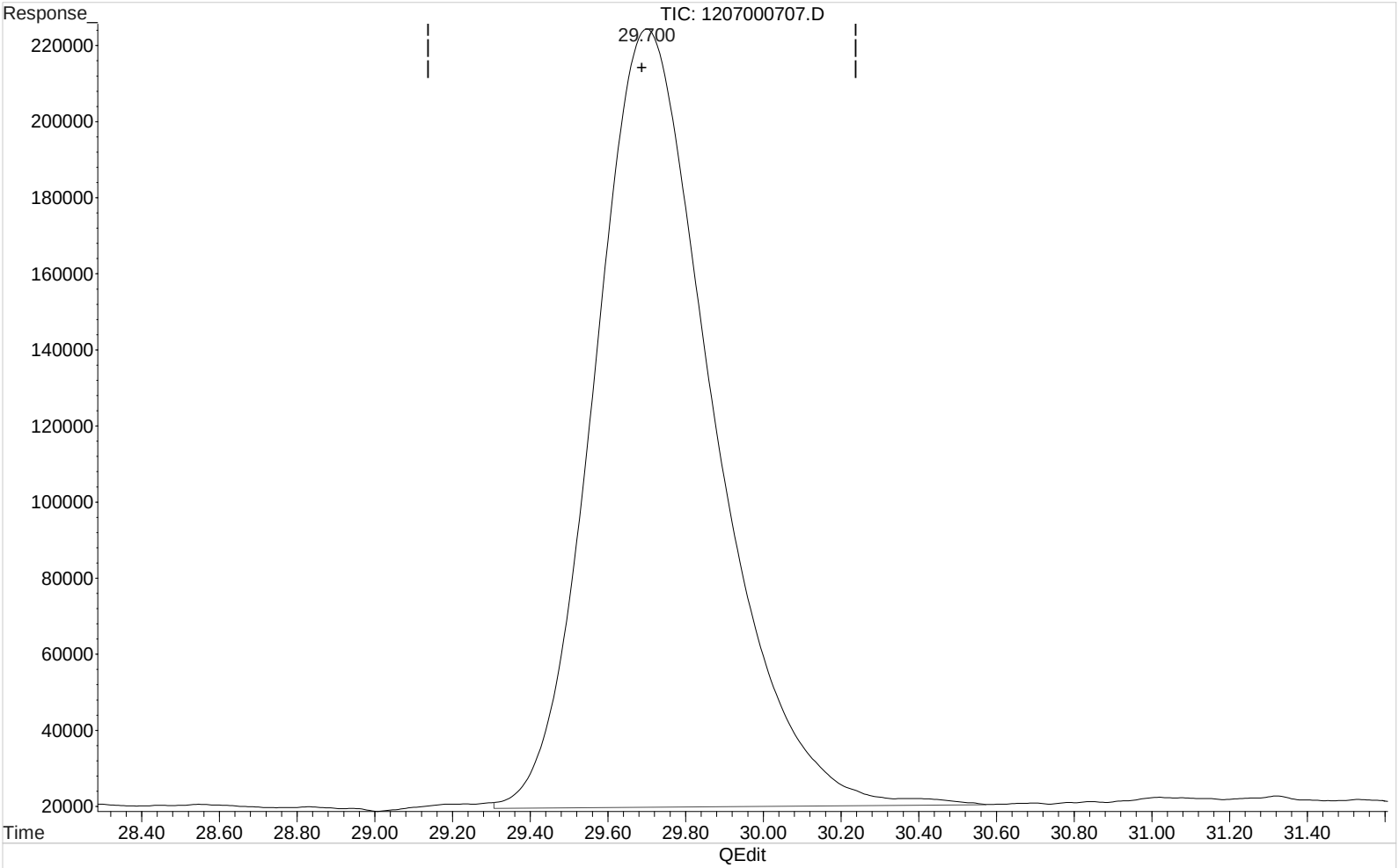
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(18) 1-Chloro-3-Nitrobenzene (S)

29.700min 194.259 ug/L m

response 4361045

Manual Integration:

After

BLC

12/08/16

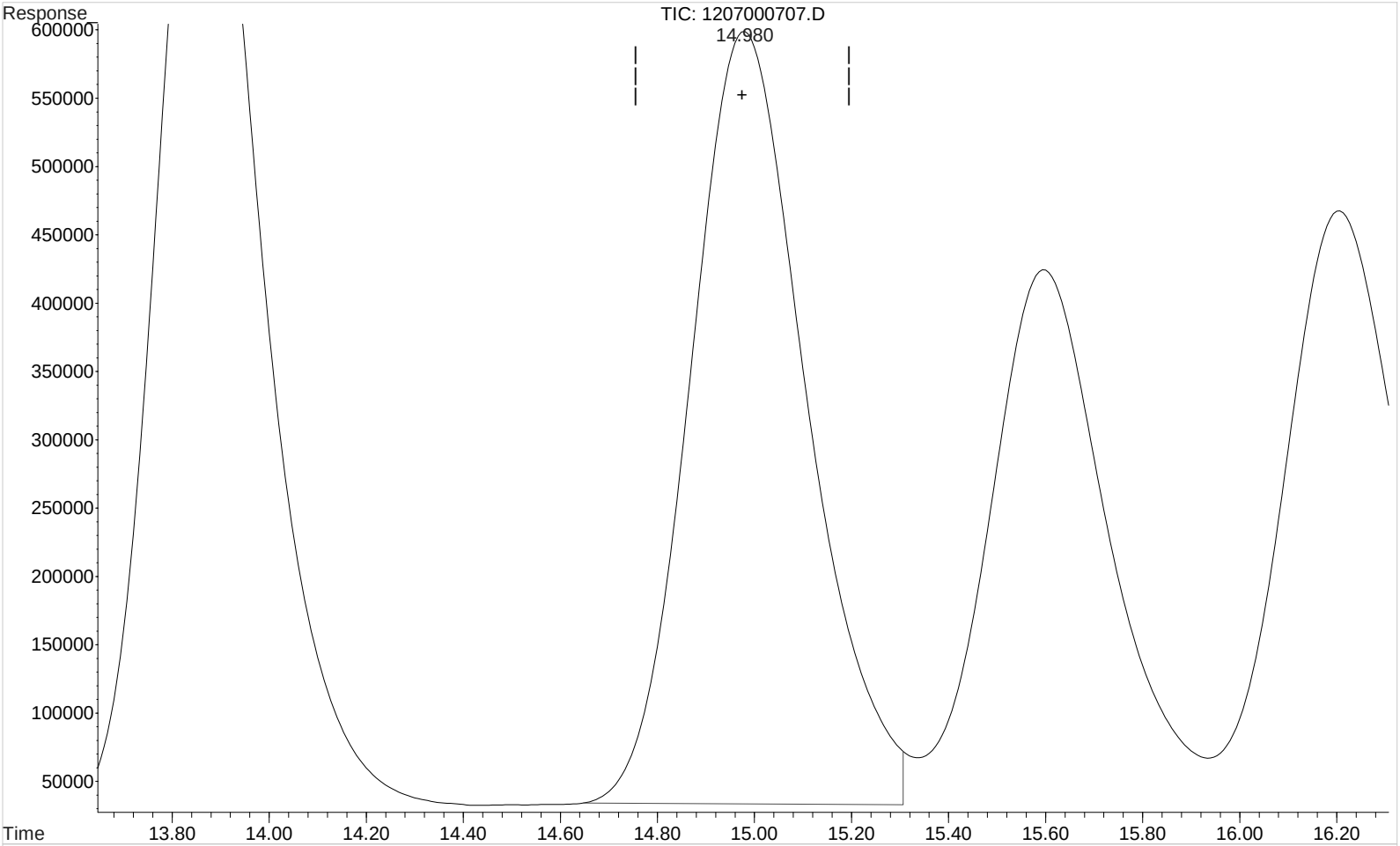
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.980min 195.548 ug/L

response 9394960

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

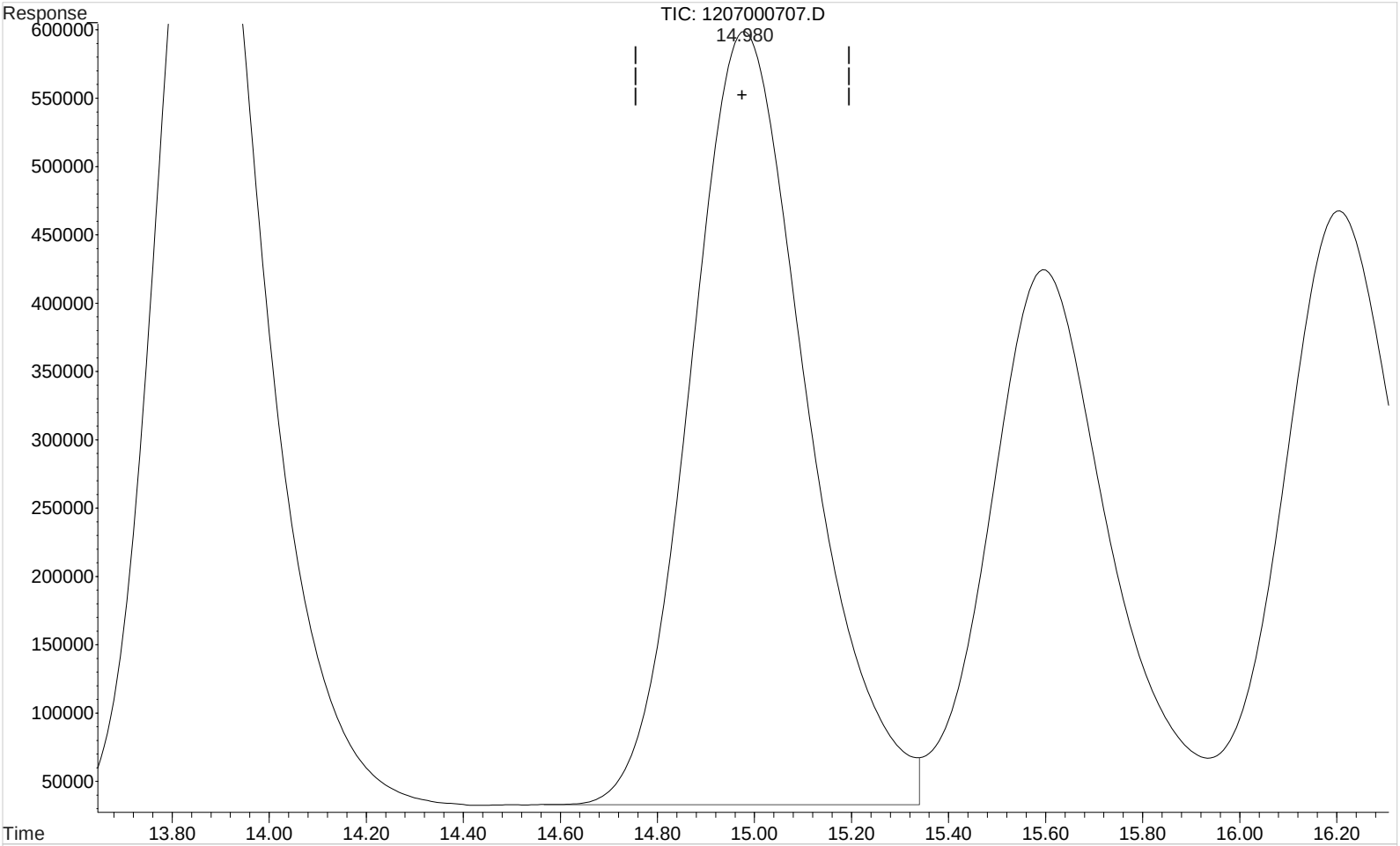
2/08/16

2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.980min 197.468 ug/L m

response 9487220

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b) (6)

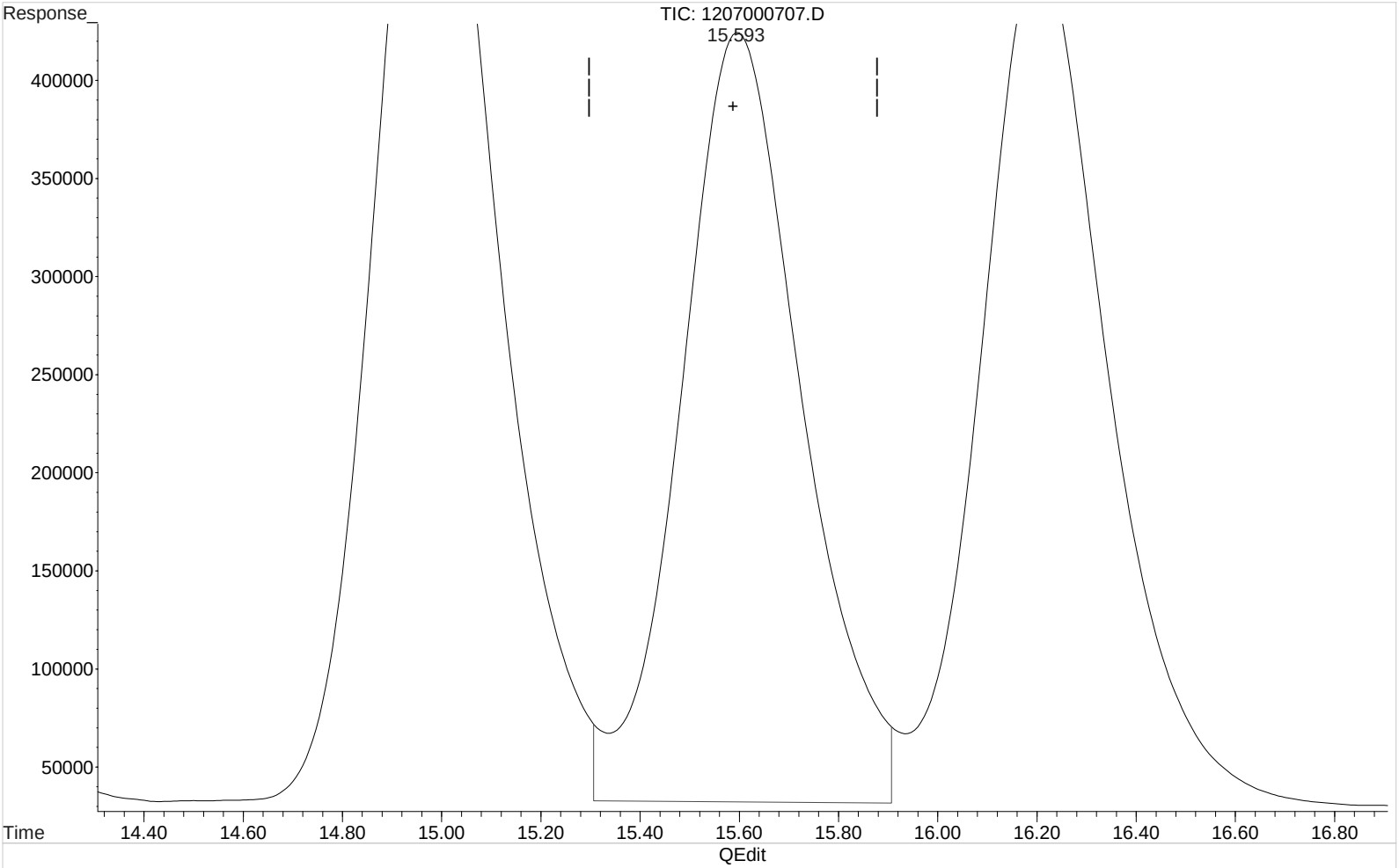
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.593min 196.528 ug/L

response 6600222

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

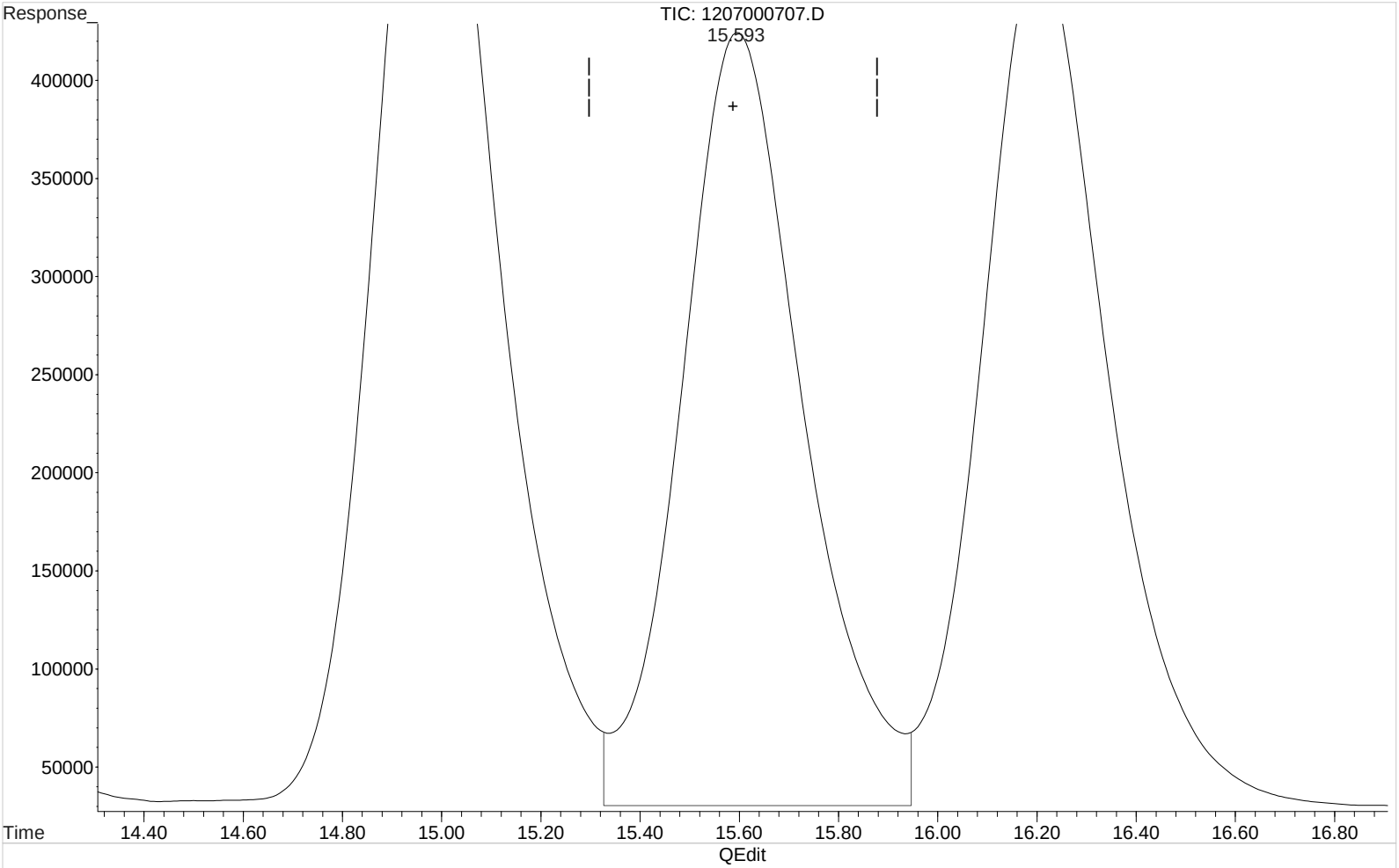
/08/16

/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.593min 199.929 ug/L m

response 6714428

Manual Integration:

After

BLC

12/08/16

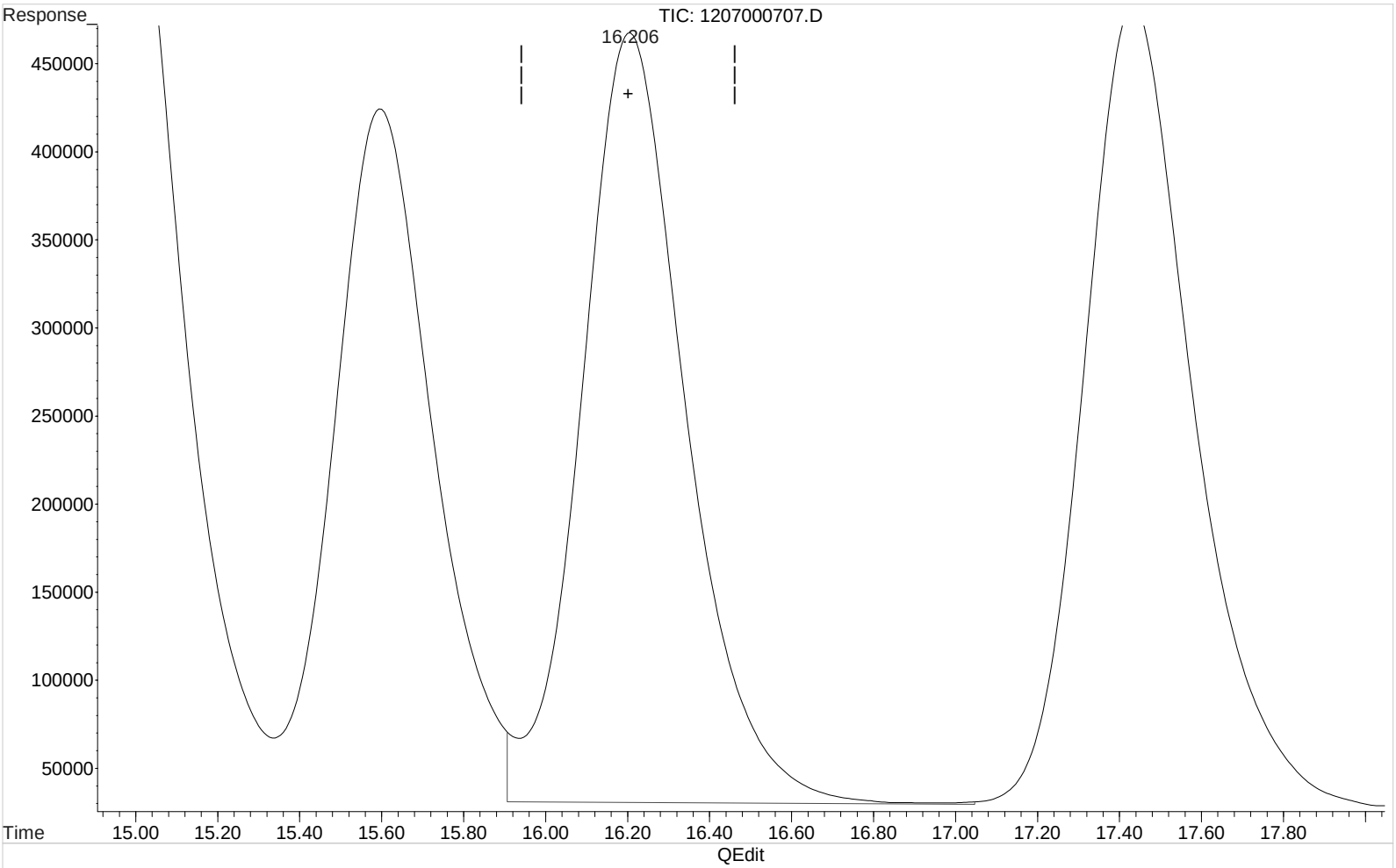
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.206min 198.294 ug/L

response 7713338

Manual Integration:

Before

12/08/16

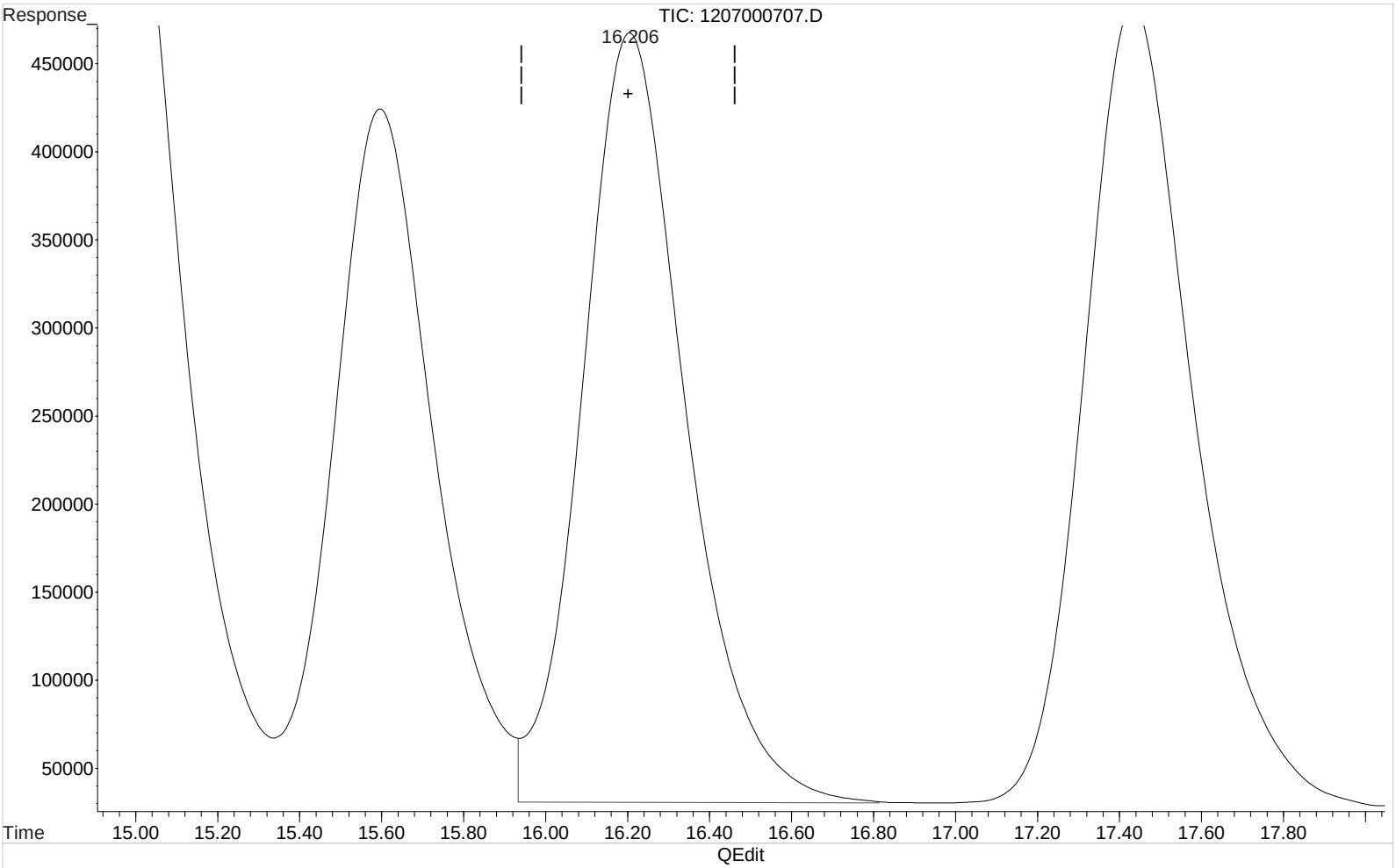
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(9) Nitrobenzene (T)

16.206min 196.210 ug/L m

response 7632300

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:15:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
18) S	1-Chloro-3-Nitrobenzene	29.705	10886437	488.432	ug/L	
	Target Compounds					
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2) T	HMX	4.785	6056374	506.562	ug/L	
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4) T	RDX	8.379	10003709	499.846	ug/L	
5) T	1,3,5-TNB	10.519	22540023	501.855	ug/L	
6) T	1,3-DNB	13.859	30302928	496.719	ug/L	
7) T	3,5-Dinitroaniline	14.965	24125484	503.745	ug/L	
8) T	Tetryl	15.585	16812702	500.659	ug/L	
9) T	Nitrobenzene	16.192	19511965	503.999	ug/L	
10) T	2,4,6-TNT	17.439	21176168	511.931	ug/L	
11) T	4-Amino-2,6-DNT	19.192	14984390	512.669	ug/L	
12) T	2-Amino-4,6-DNT	20.025	21286599	490.874	ug/L	
13) T	2,6-DNT	21.745	12560679	515.590	ug/L	m
14) T	2,4-DNT	22.205	29961095	510.697	ug/L	m
15) T	2-NT	25.325	9109097	507.283	ug/L	m
16) T	4-NT	26.252	8010069	496.306	ug/L	m
17) T	3-NT	27.379	10130589	501.548	ug/L	m

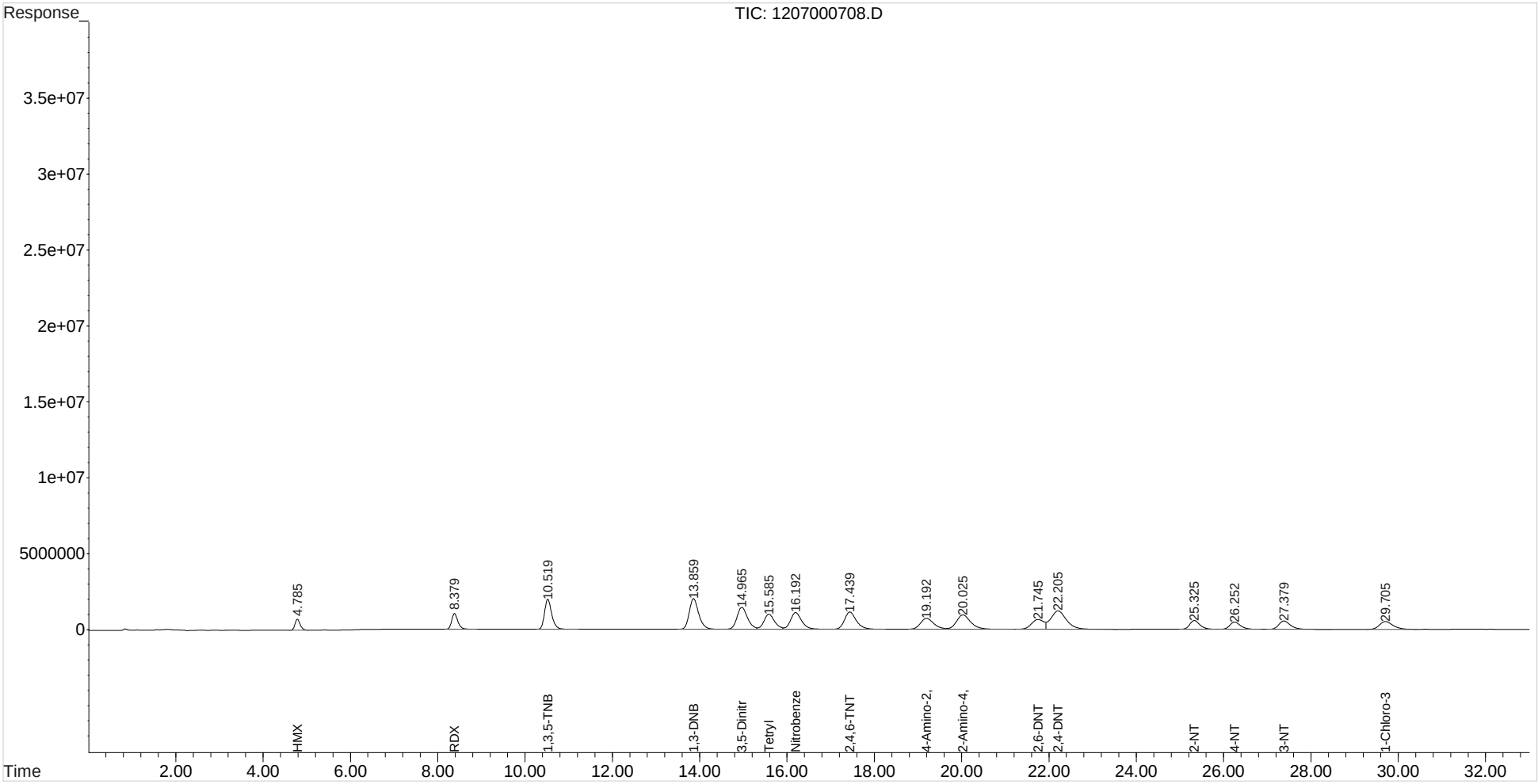
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:15:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

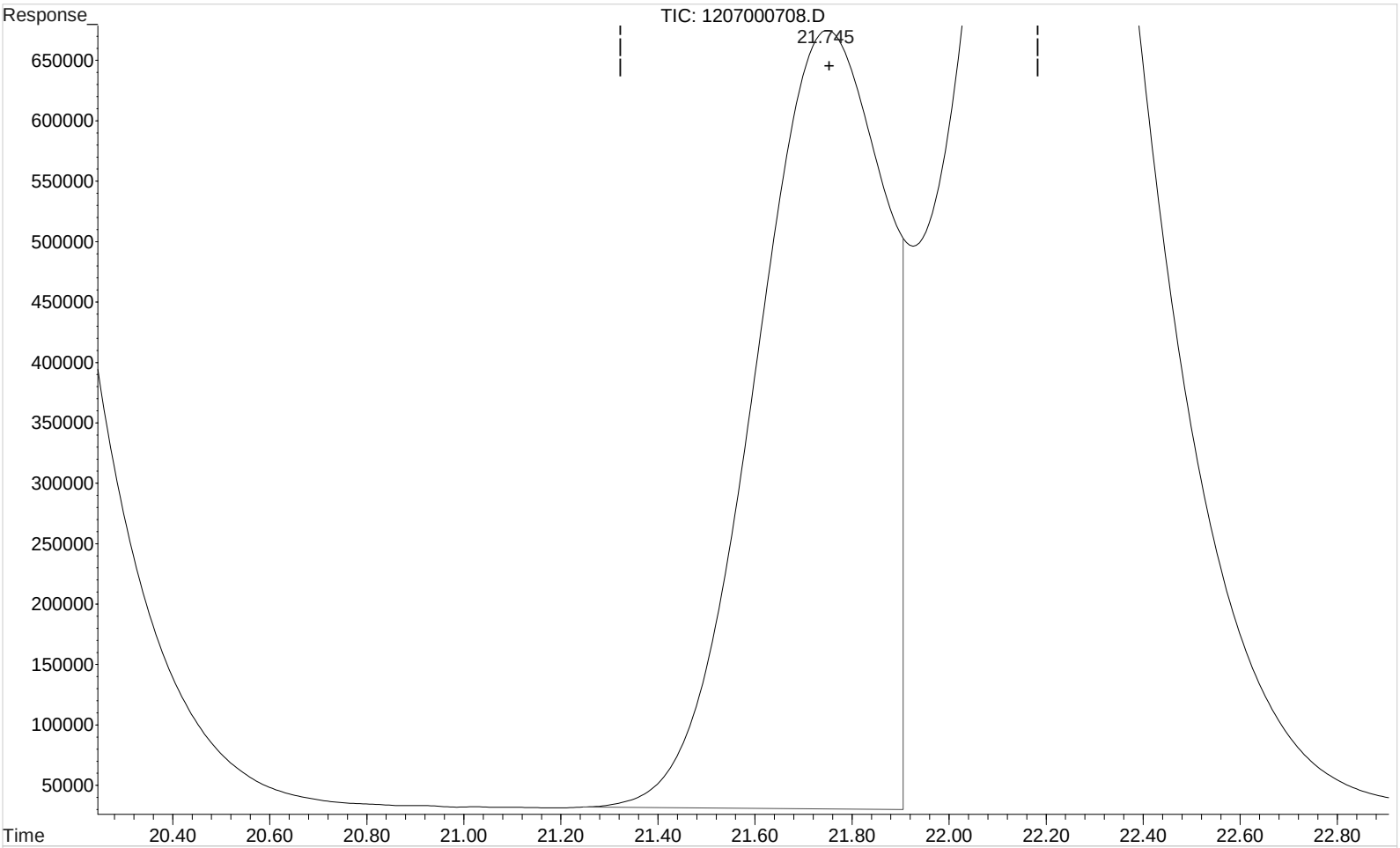


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.745min 493.038 ug/L

response 12011281

Manual Integration:

Before

12/08/16

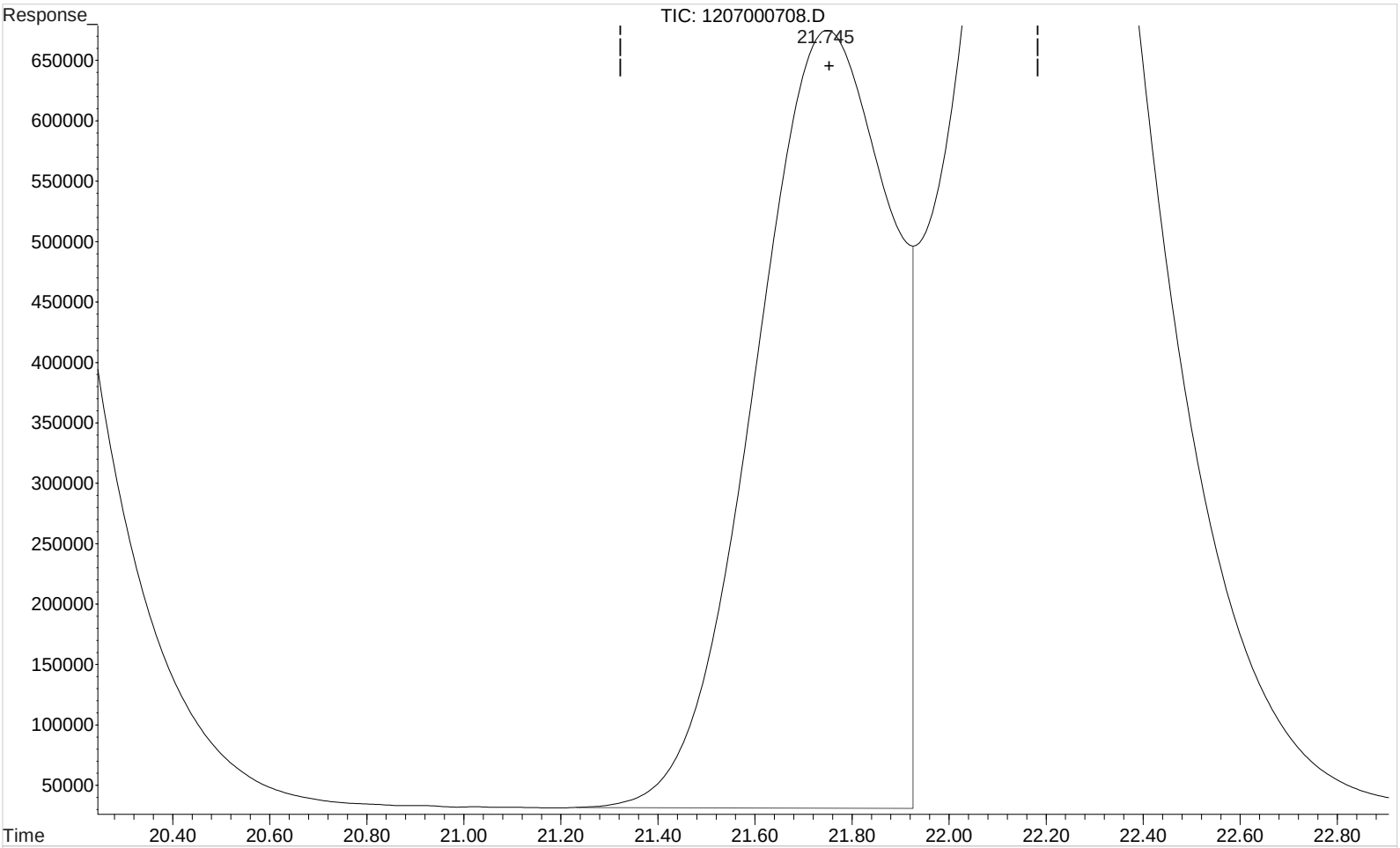
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.745min 515.590 ug/L m

response 12560679

Manual Integration:

After

BLC

12/08/16

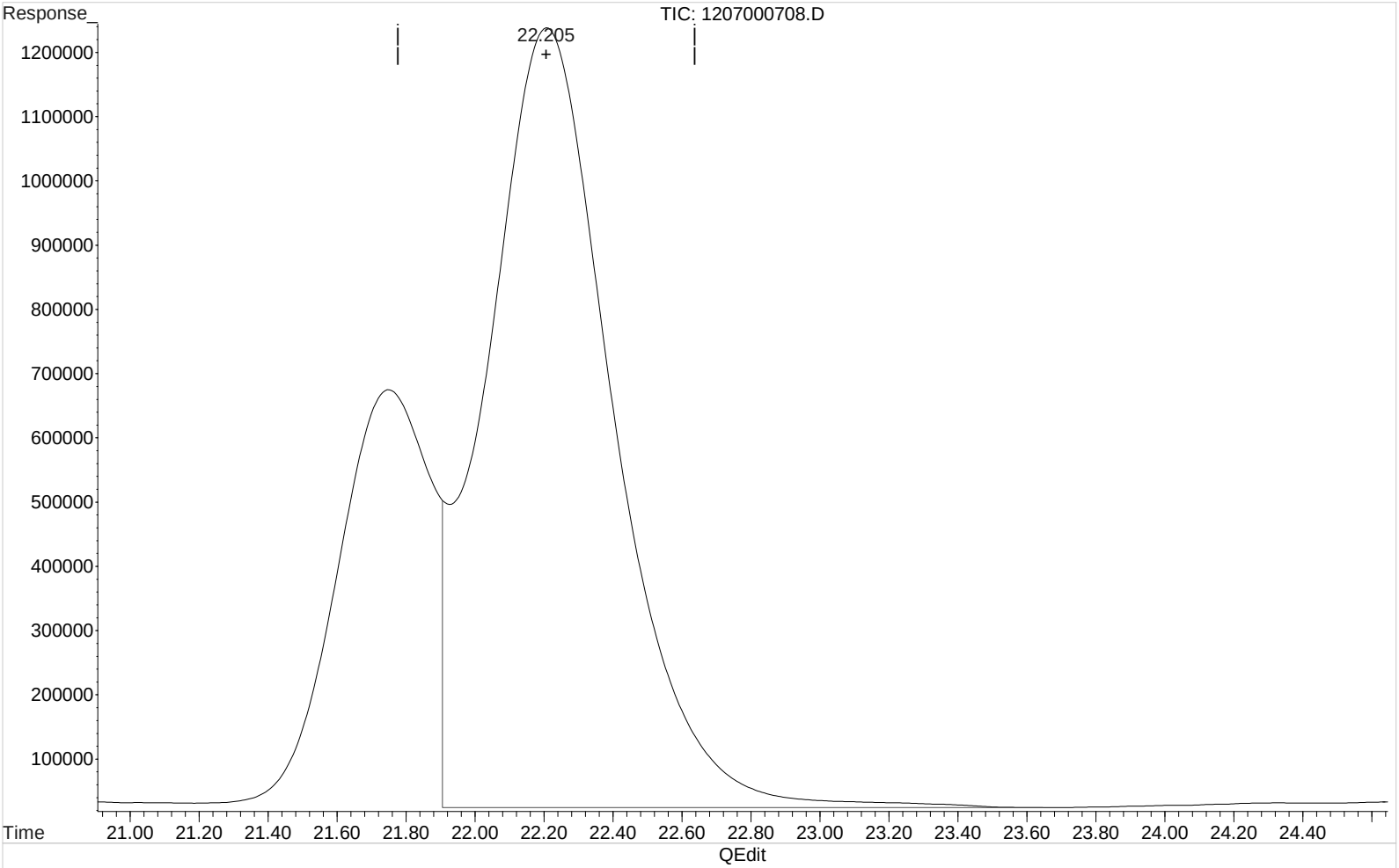
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.205min 531.088 ug/L

response 31157389

Manual Integration:

Before

12/08/16

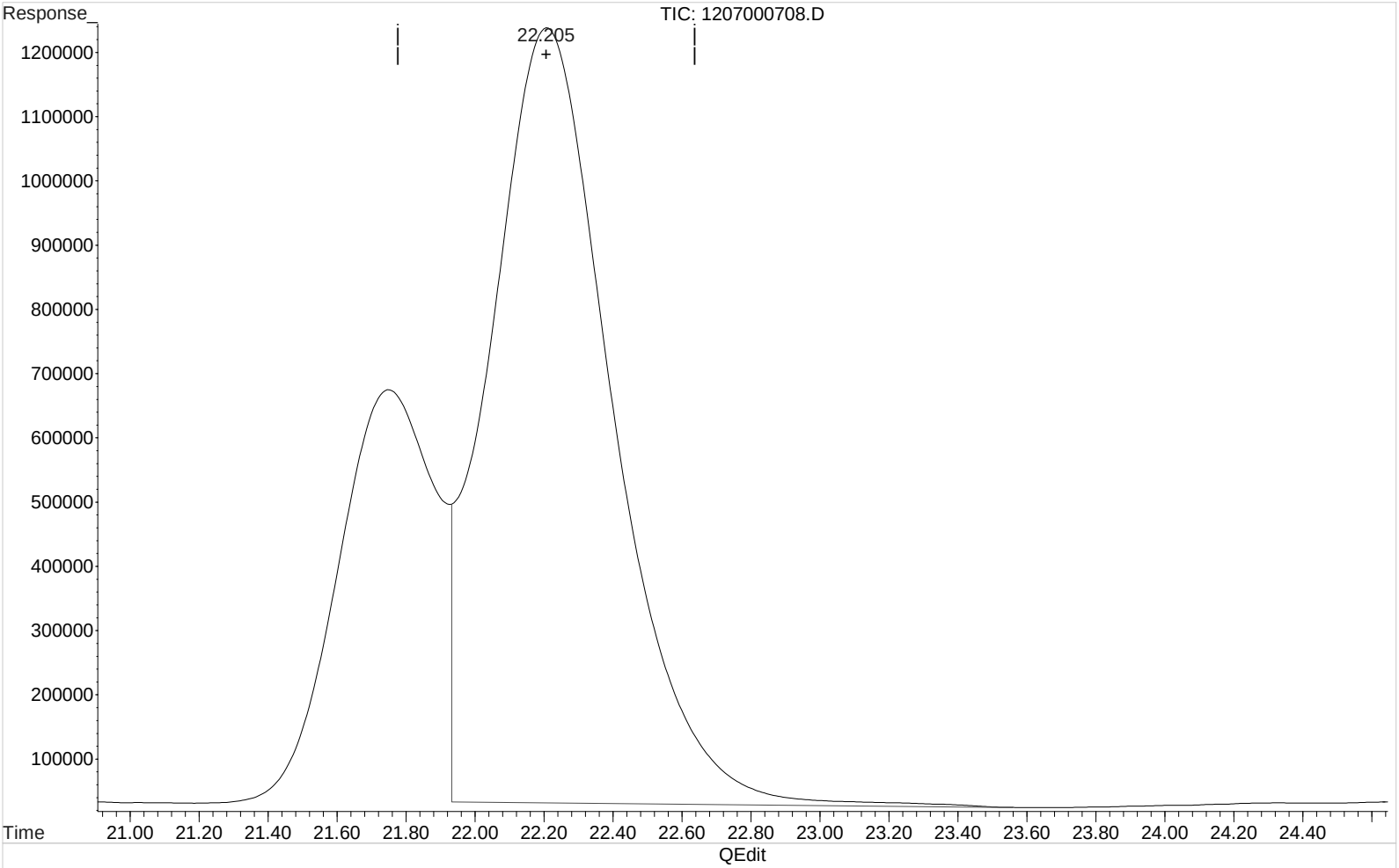
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.205min 510.697 ug/L m

response 29961095

Manual Integration:

After

BLC

12/08/16

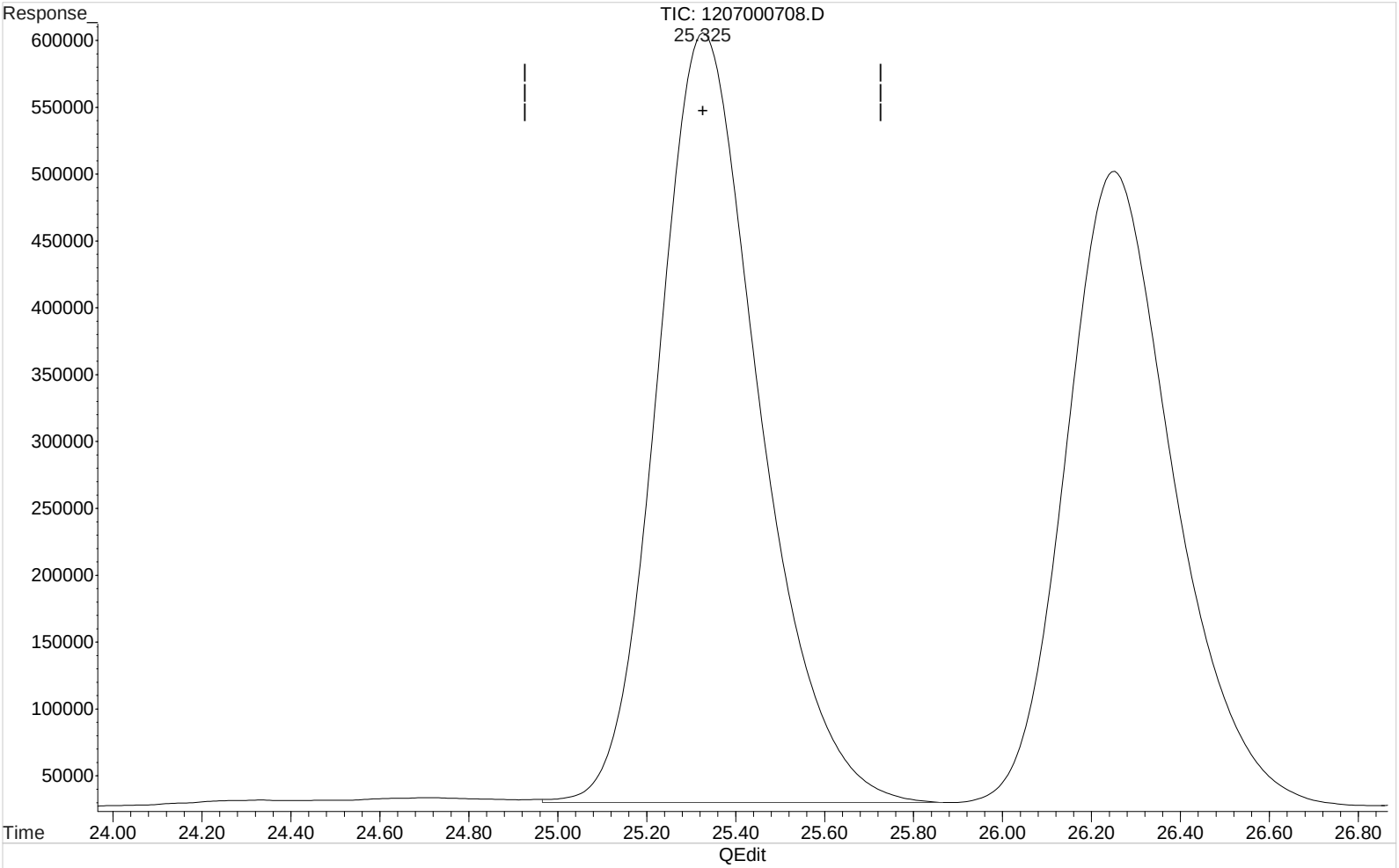
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.325min 510.734 ug/L

response 9171057

Manual Integration:

Before

12/08/16

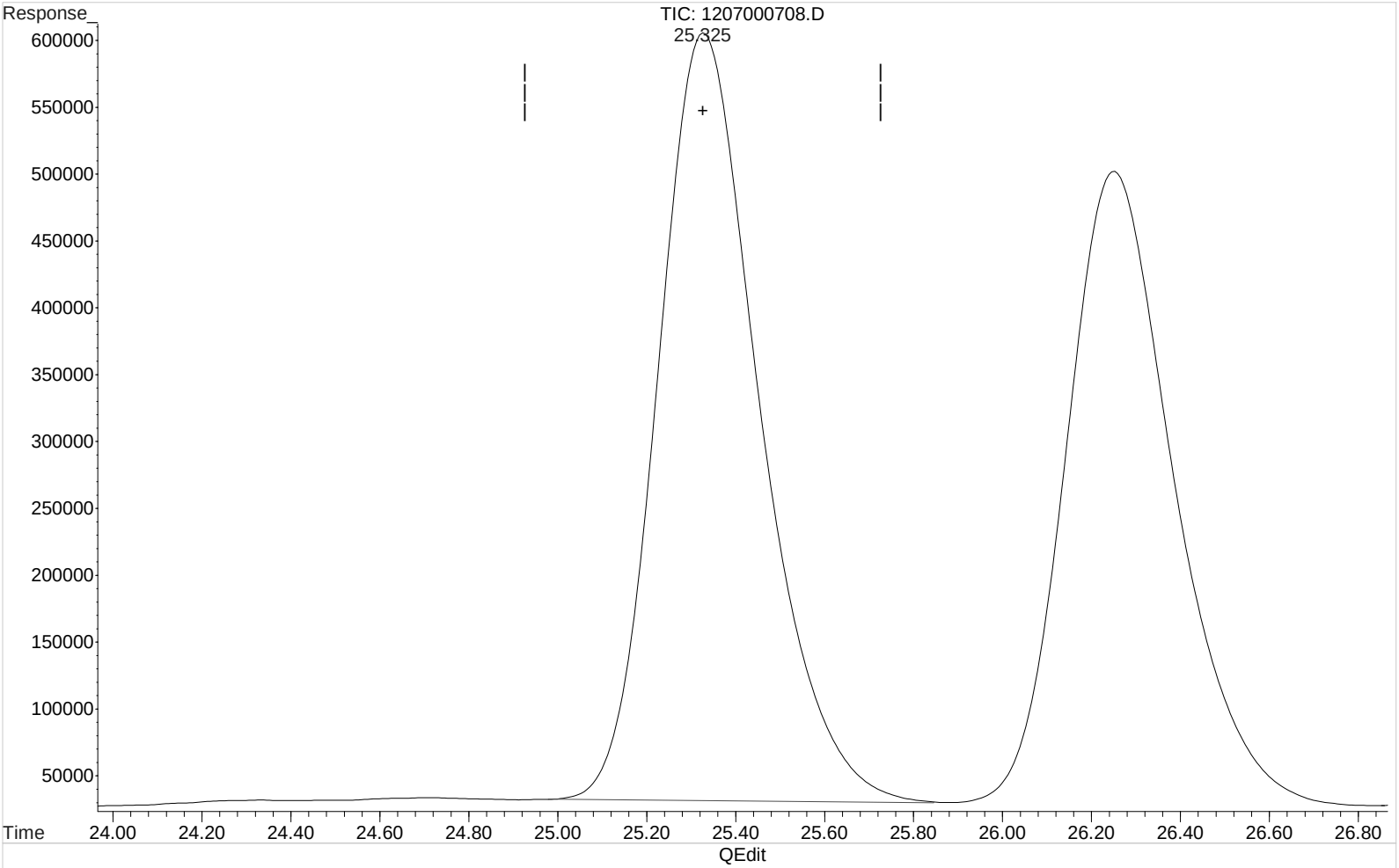
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.325min 507.283 ug/L m

response 9109097

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)

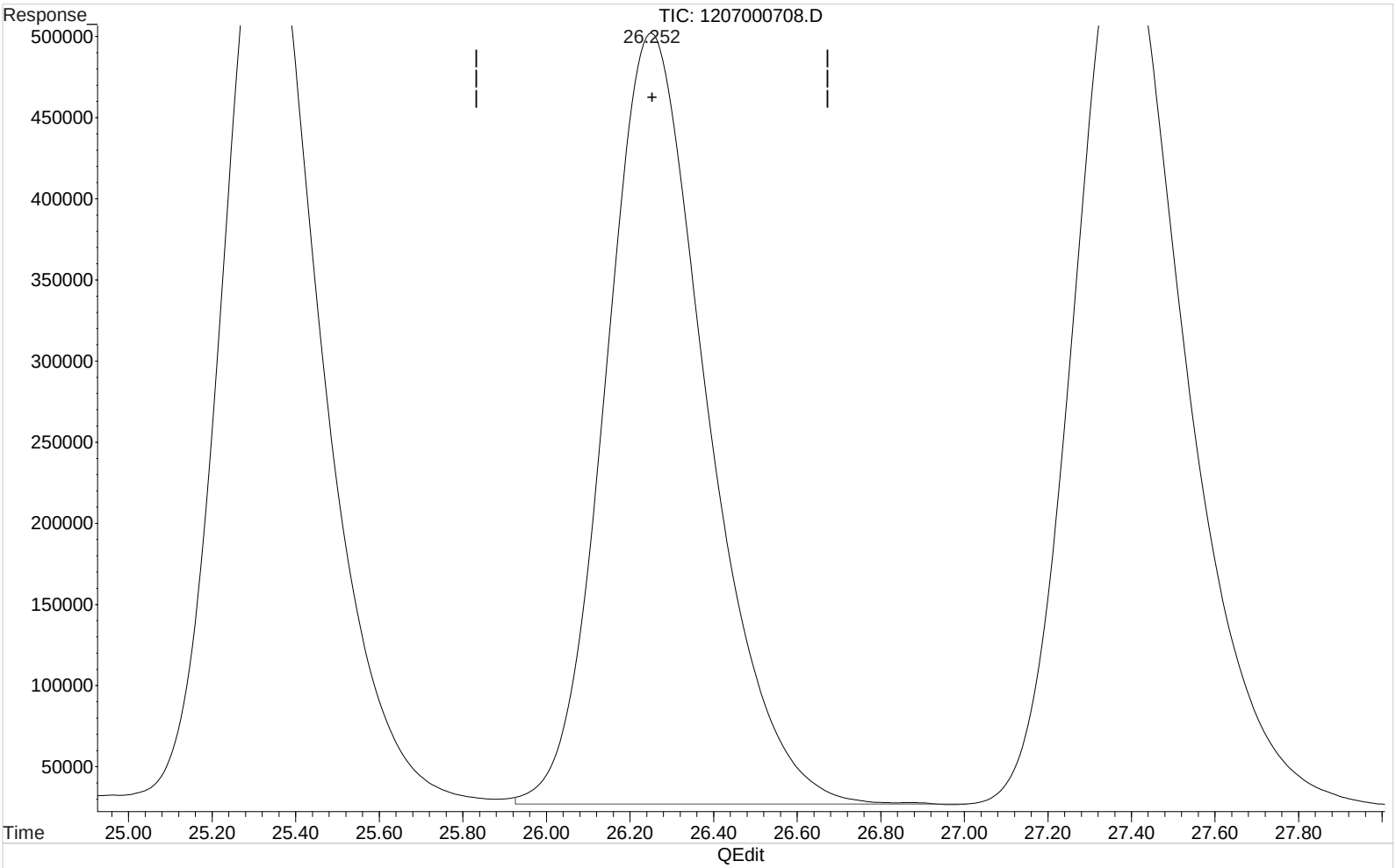
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.252min 498.182 ug/L

response 8040347

Manual Integration:

Before

12/08/16

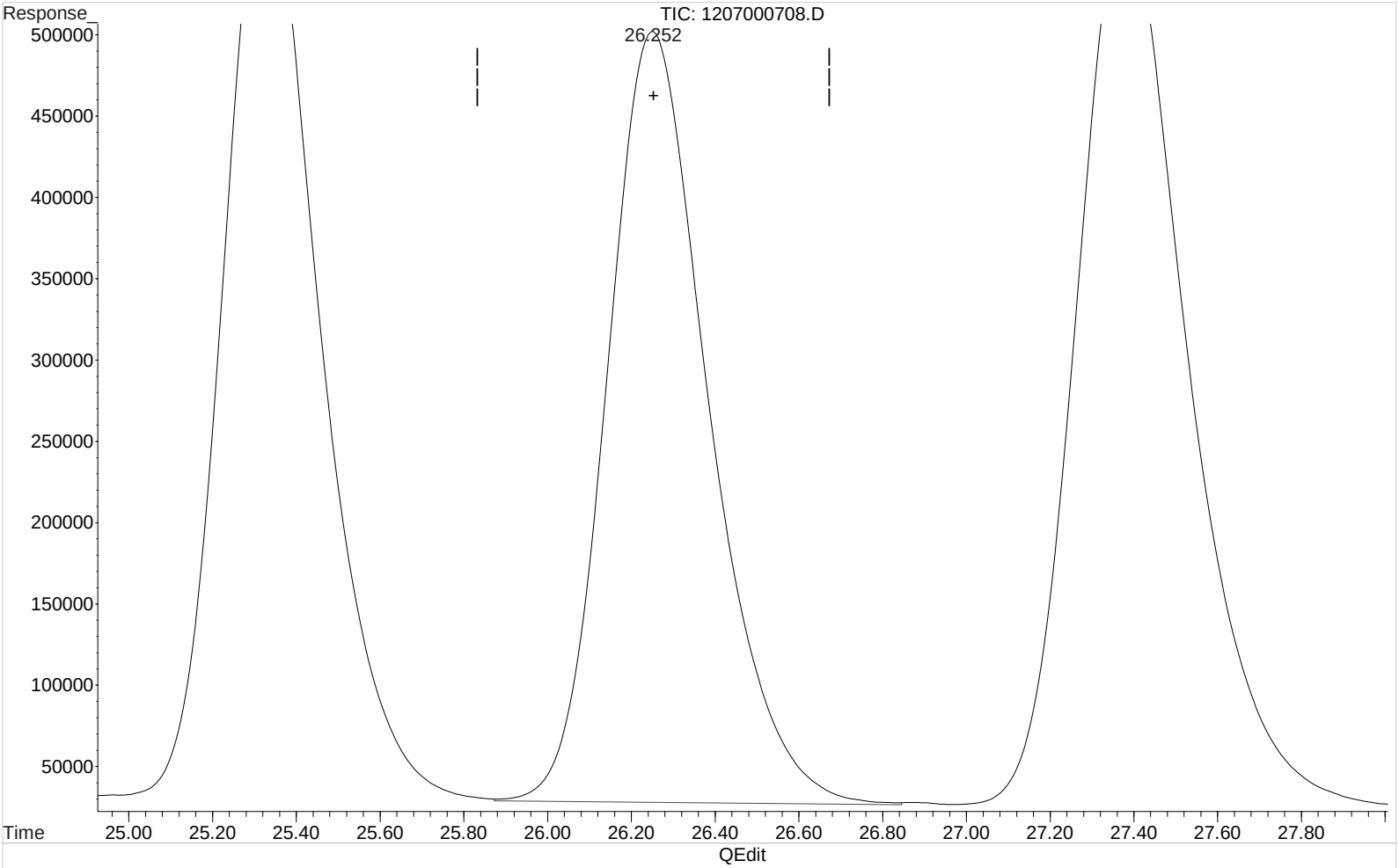
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(16) 4-NT (T)

26.252min 496.306 ug/L m

response 8010069

Manual Integration:

After

BLC

12/08/16

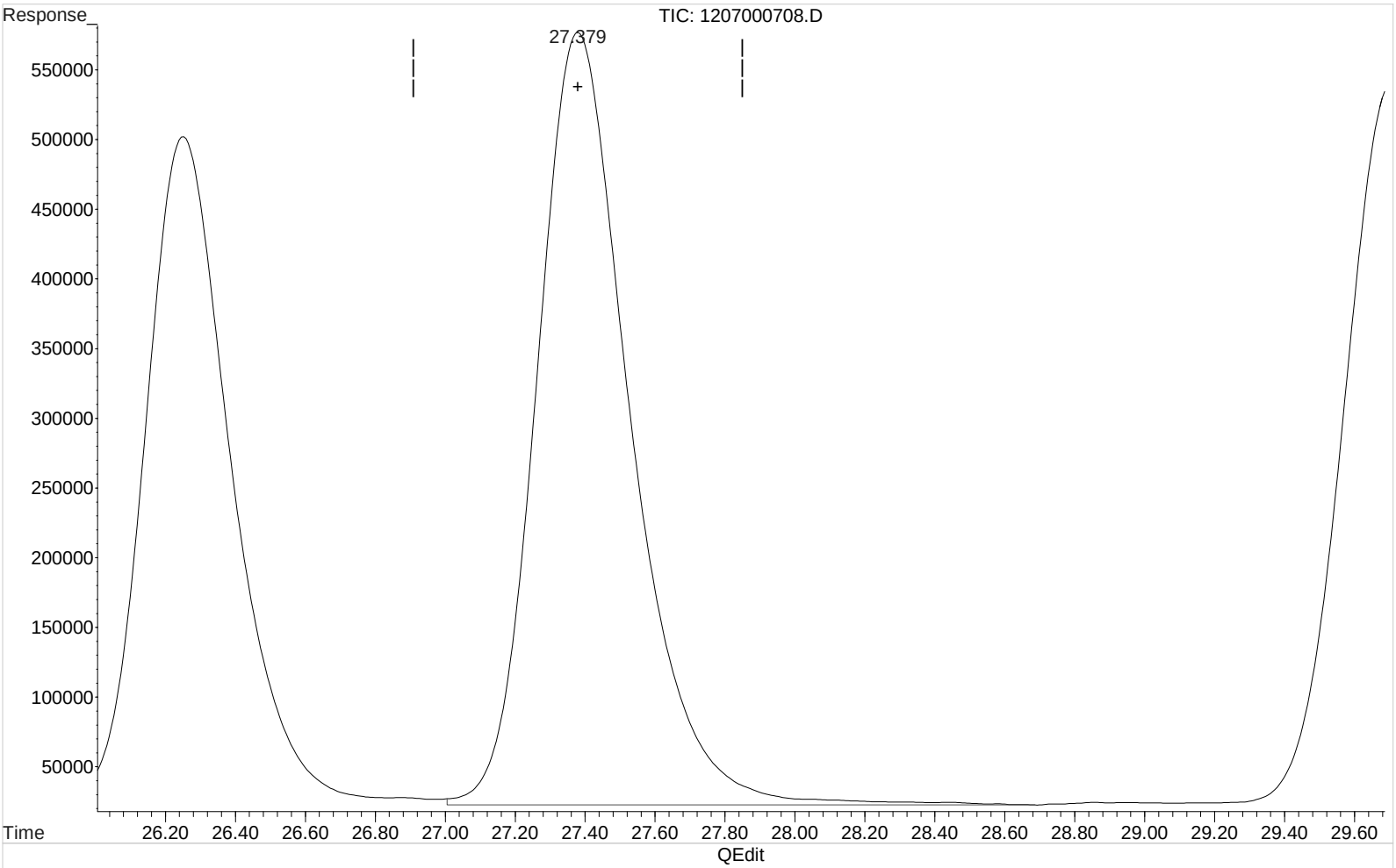
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.379min 512.791 ug/L

response 10357684

Manual Integration:

Before

12/08/16

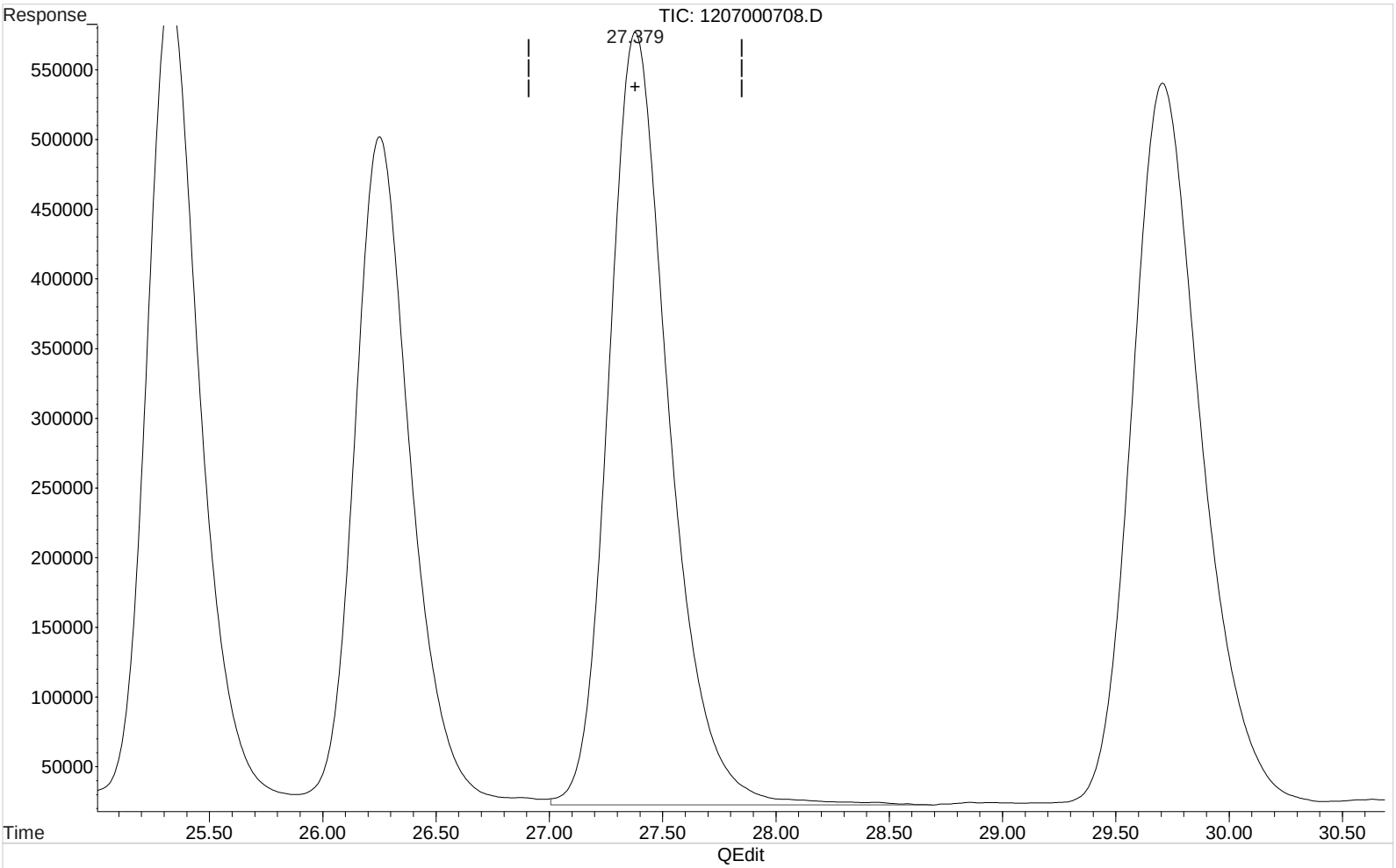
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.379min 512.791 ug/L

response 10357684

Manual Integration:

Before

12/08/16

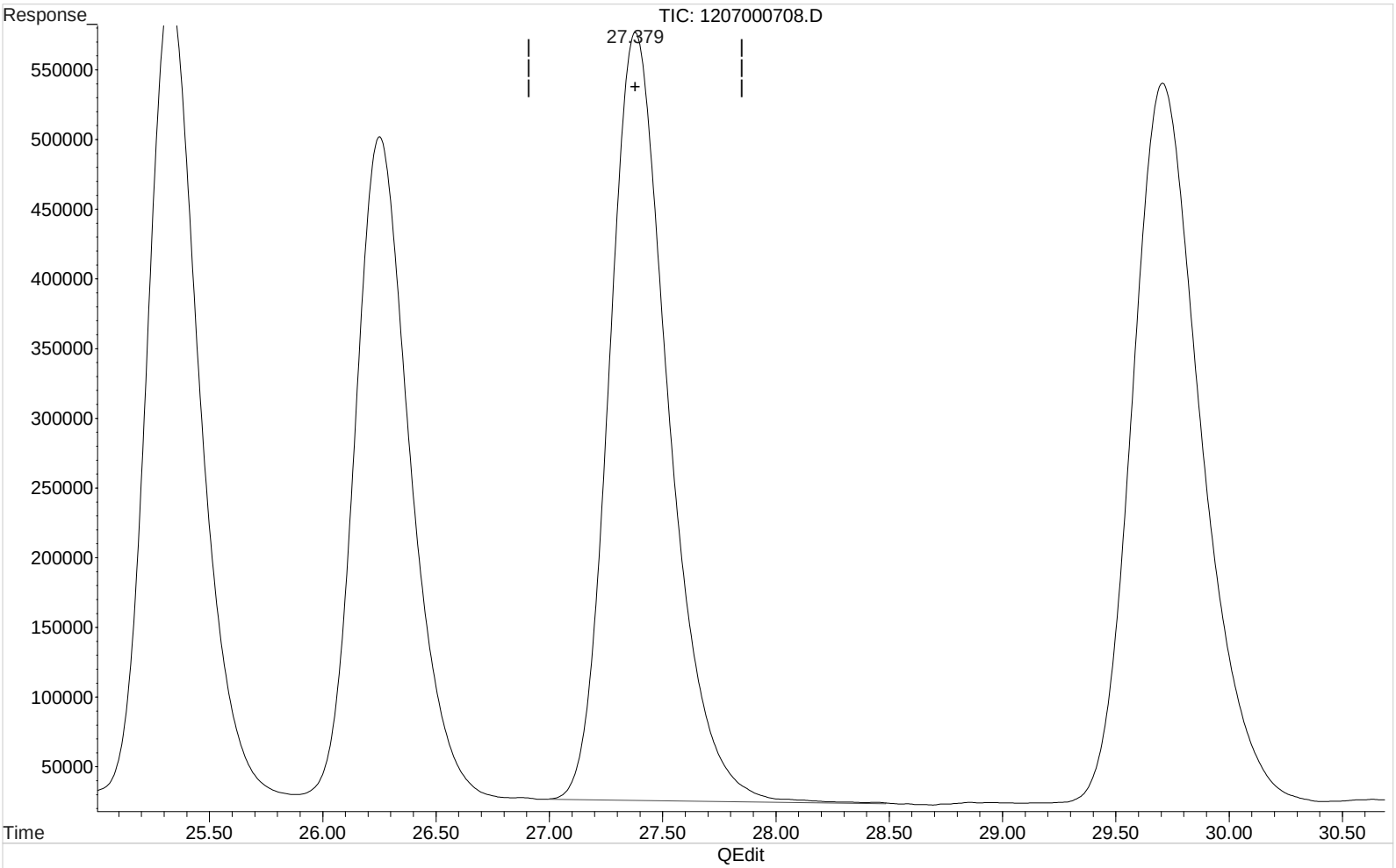
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.379min 501.548 ug/L m

response 10130589

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000709.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:17:24 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:16:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds							
18)	S	1-Chloro-3-Nitrobenzene	29.704	21424748	965.714	ug/L	
Target Compounds							
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	4.784	11949913	996.887	ug/L	
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	8.377	19595263	979.158	ug/L	
5)	T	1,3,5-TNB	10.517	44322350	986.108	ug/L	
6)	T	1,3-DNB	13.864	59271553	972.844	ug/L	
7)	T	3,5-Dinitroaniline	14.970	47161666	983.273	ug/L	
8)	T	Tetryl	15.584	33058166	984.167	ug/L	
9)	T	Nitrobenzene	16.190	38294717	987.582	ug/L	
10)	T	2,4,6-TNT	17.424	41608108	1001.093	ug/L	
11)	T	4-Amino-2,6-DNT	19.184	29562551	1006.339	ug/L	
12)	T	2-Amino-4,6-DNT	20.017	41752958	966.360	ug/L	
13)	T	2,6-DNT	21.744	24453723	997.554	ug/L	m
14)	T	2,4-DNT	22.204	58902914	999.743	ug/L	m
15)	T	2-NT	25.324	17886628	993.209	ug/L	
16)	T	4-NT	26.244	15580571	966.804	ug/L	
17)	T	3-NT	27.377	20277426	1003.280	ug/L	

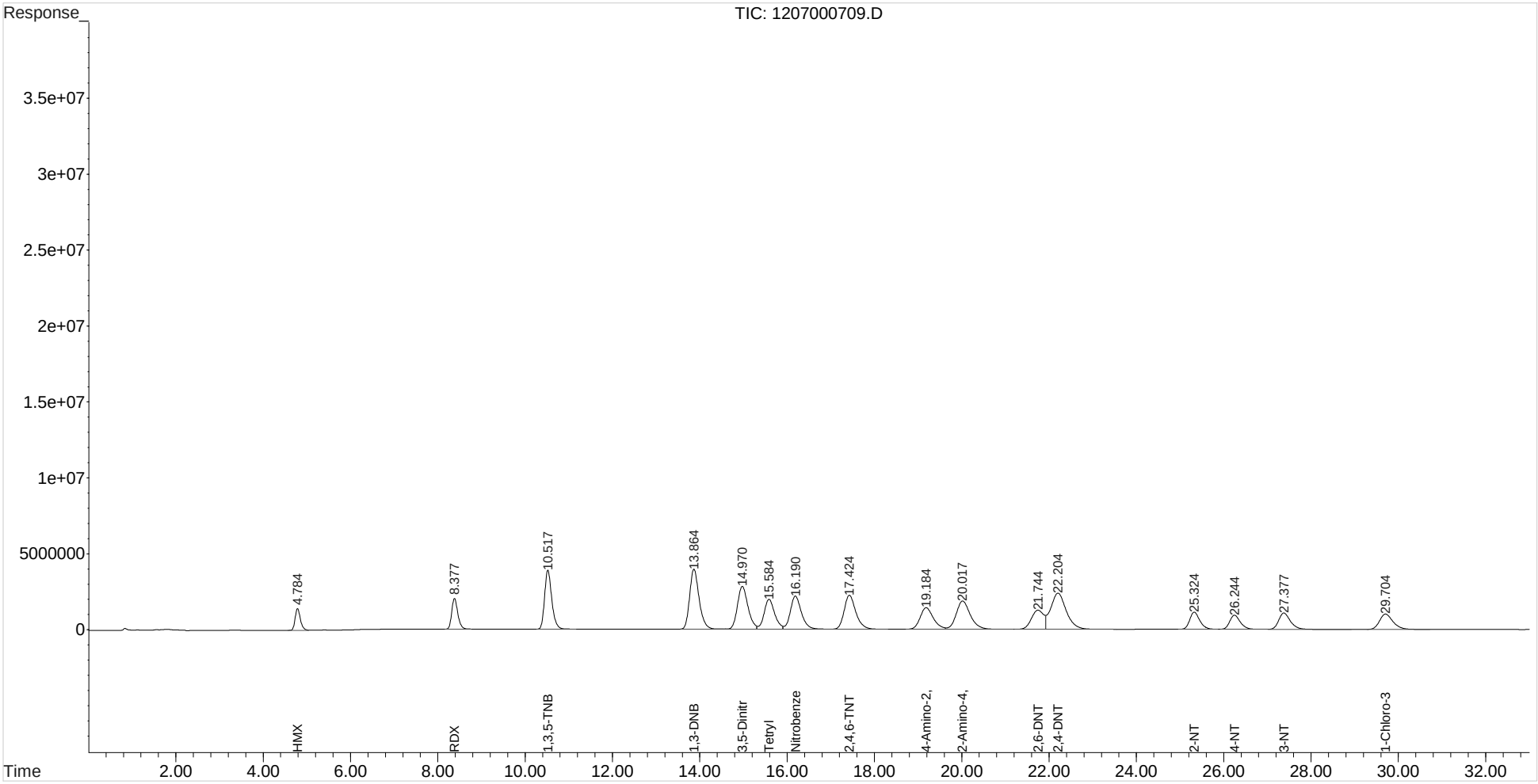
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000709.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:17:24 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:16:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

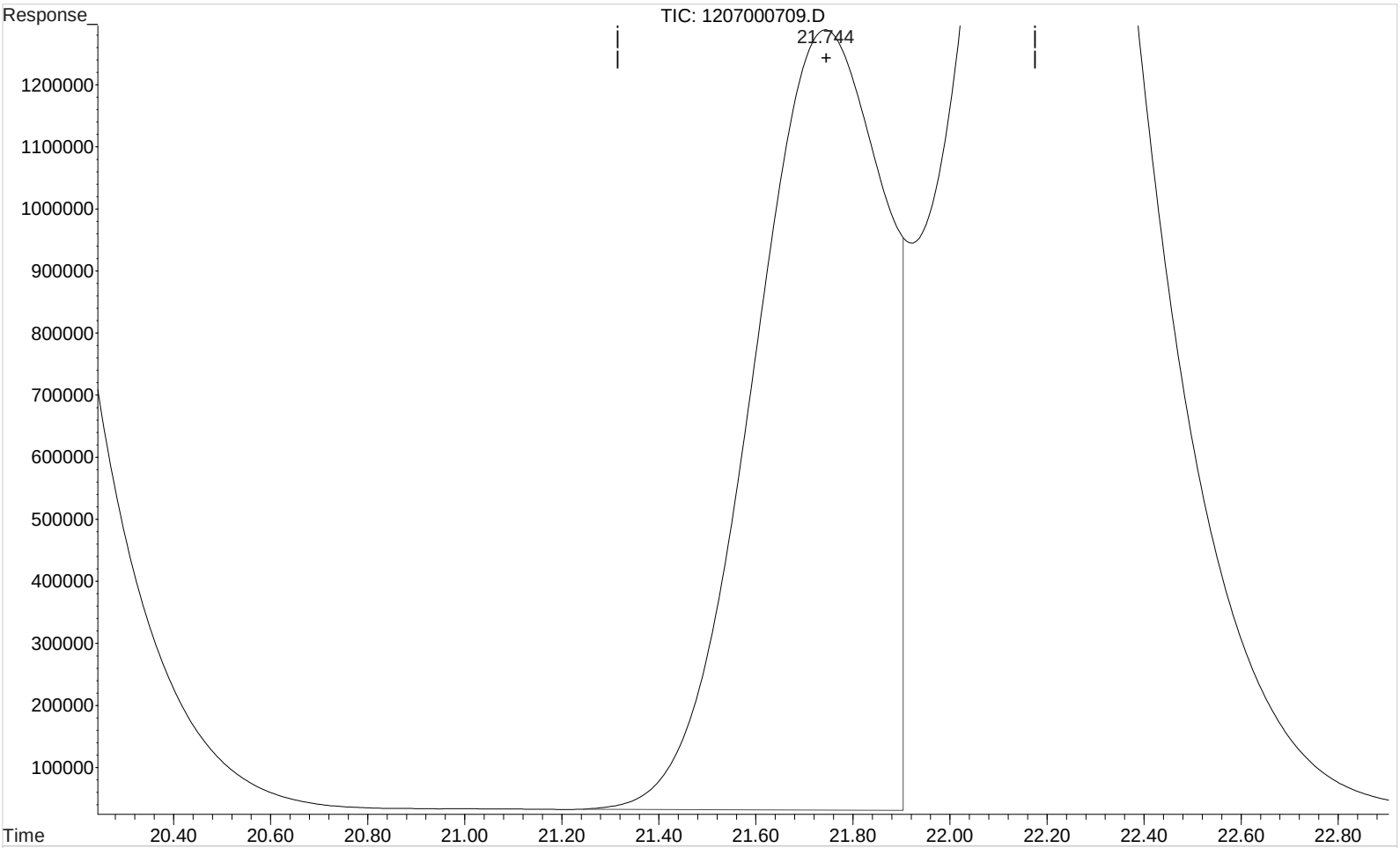


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000709.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:16:36 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:16:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.744min 967.112 ug/L

response 23707470

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

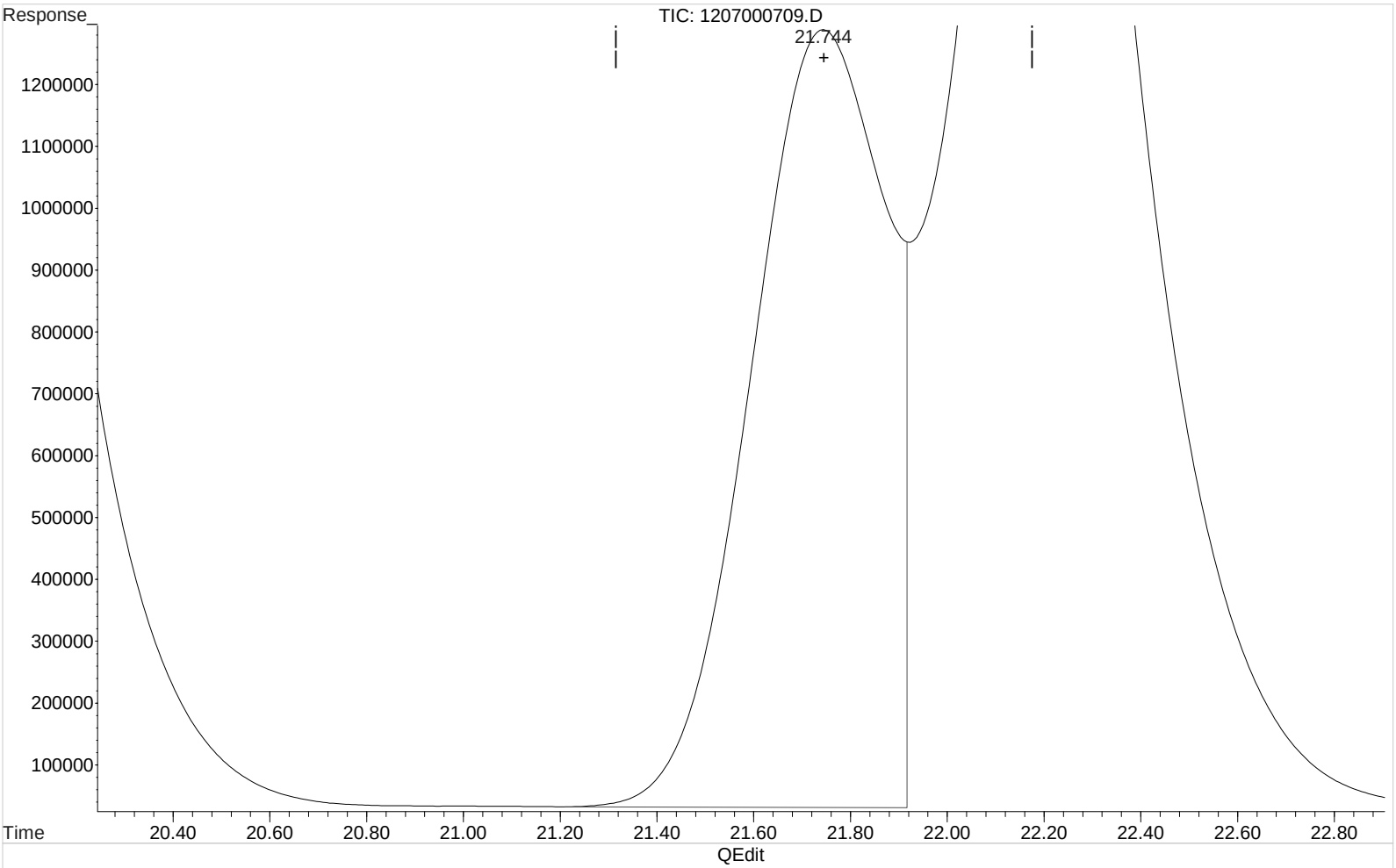
/08/16

/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000709.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:16:36 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:16:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.744min 997.554 ug/L m

response 24453723

Manual Integration:

After

BLC

12/08/16

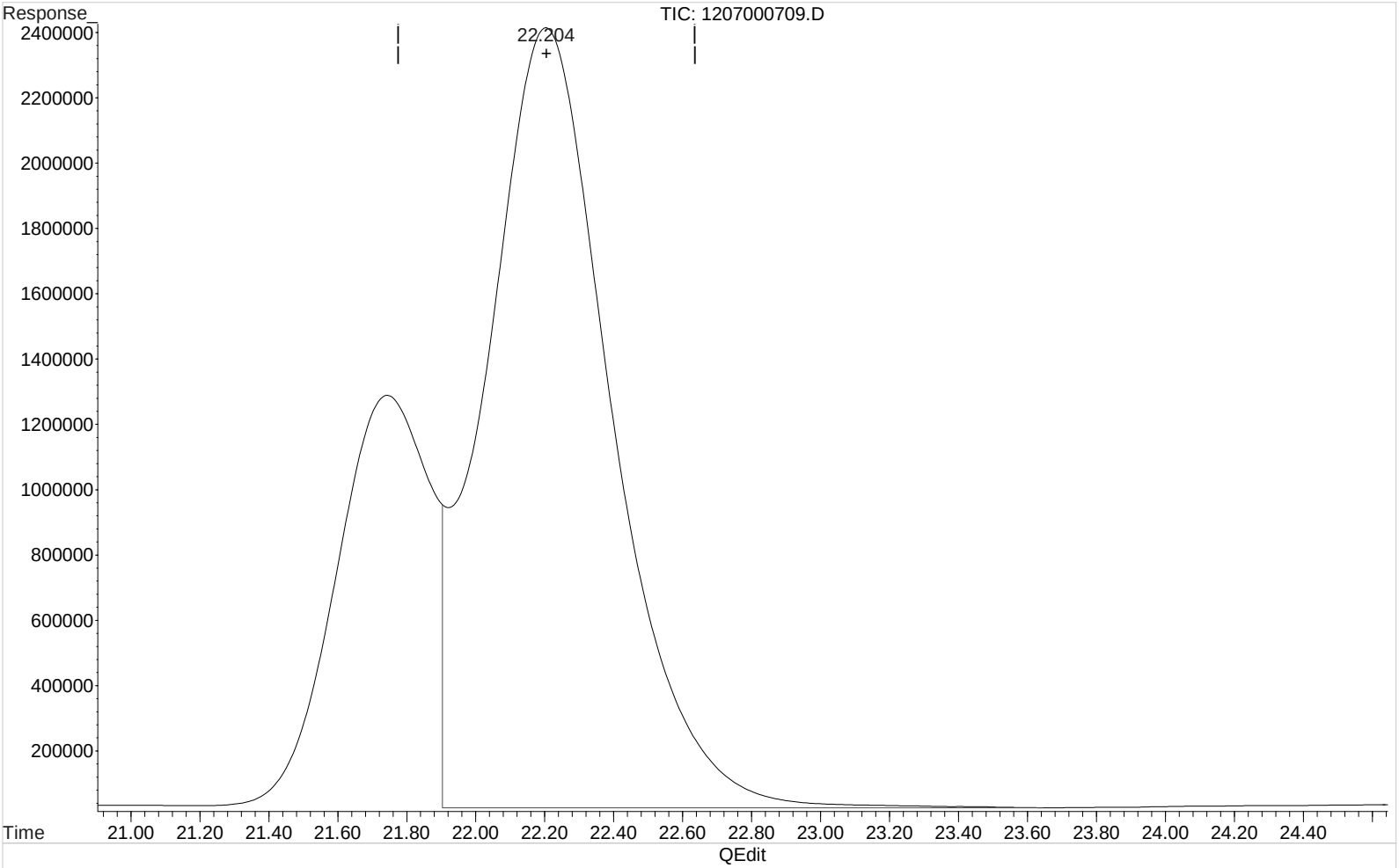
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000709.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:16:36 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:16:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.204min 1026.588 ug/L

response 60484608

Manual Integration:

Before

12/08/16

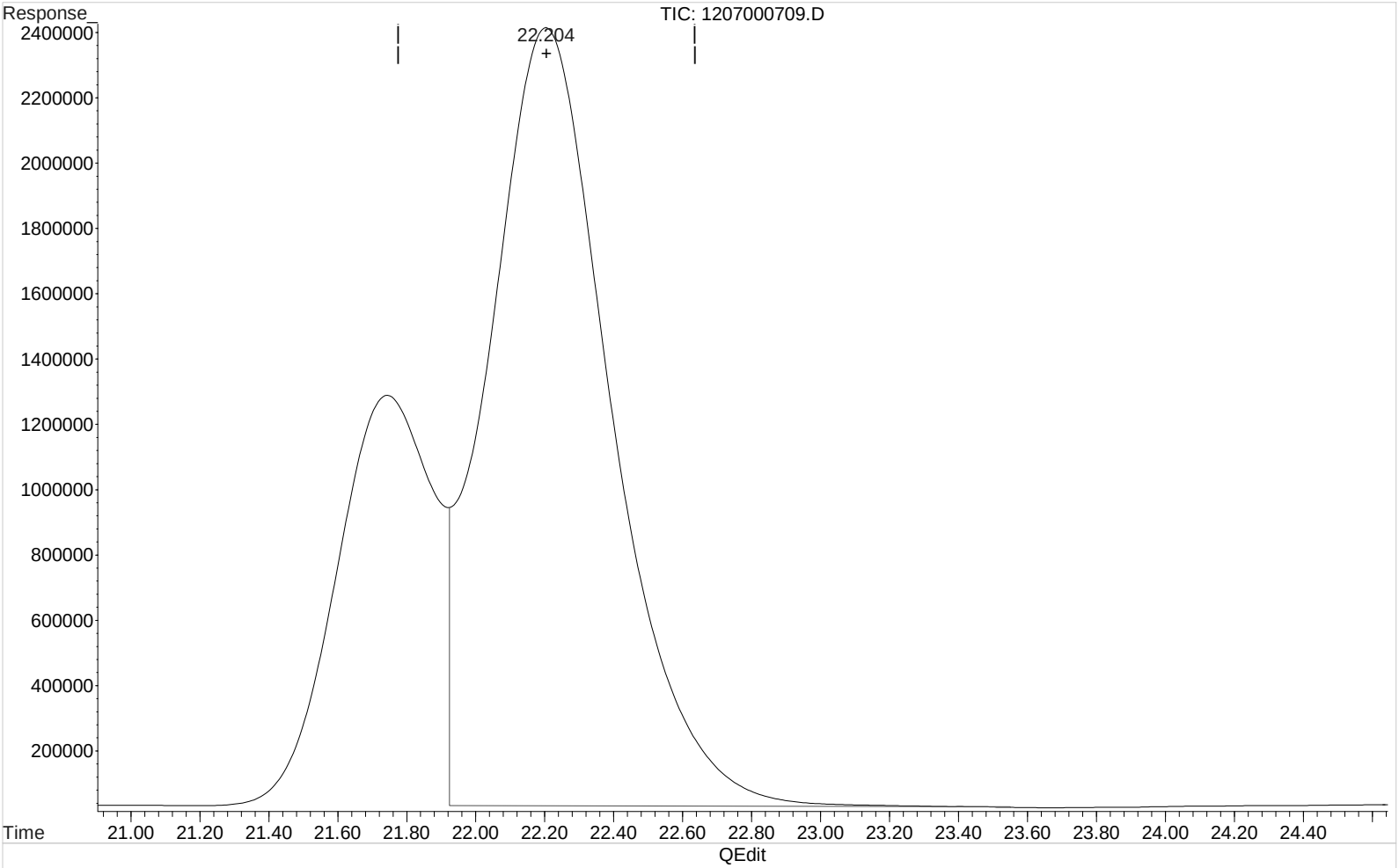
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000709.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:16:36 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:16:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.204min 999.743 ug/L m

response 58902914

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:19:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
18) S	1-Chloro-3-Nitrobenzene	29.700	42294963	1917.388	ug/L	
	Target Compounds					
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2) T	HMX	4.787	23722211	1979.985	ug/L	m
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4) T	RDX	8.380	38913573	1951.255	ug/L	
5) T	1,3,5-TNB	10.520	87503916	1951.353	ug/L	
6) T	1,3-DNB	13.860	117702258	1940.670	ug/L	
7) T	3,5-Dinitroaniline	14.967	93512376	1955.089	ug/L	m
8) T	Tetryl	15.587	65318779	1949.736	ug/L	
9) T	Nitrobenzene	16.200	76224644	1969.834	ug/L	
10) T	2,4,6-TNT	17.440	82170115	1976.657	ug/L	
11) T	4-Amino-2,6-DNT	19.200	58780326	1998.831	ug/L	
12) T	2-Amino-4,6-DNT	20.034	81844649	1904.951	ug/L	
13) T	2,6-DNT	21.754	47948148	1956.773	ug/L	m
14) T	2,4-DNT	22.214	117648318	1996.898	ug/L	m
15) T	2-NT	25.327	35281189	1961.314	ug/L	
16) T	4-NT	26.247	30767210	1919.786	ug/L	
17) T	3-NT	27.380	39399716	1948.341	ug/L	

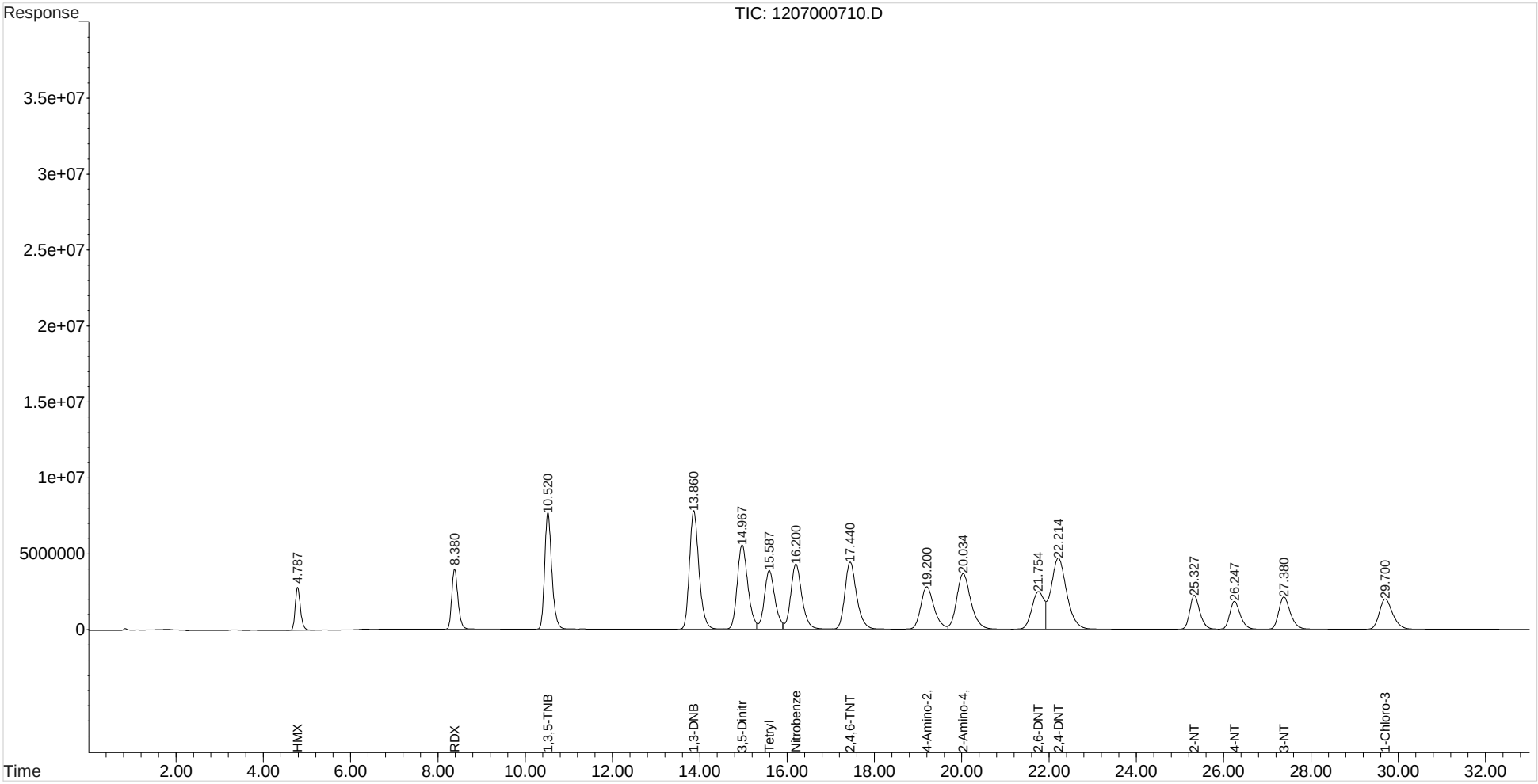
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:19:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

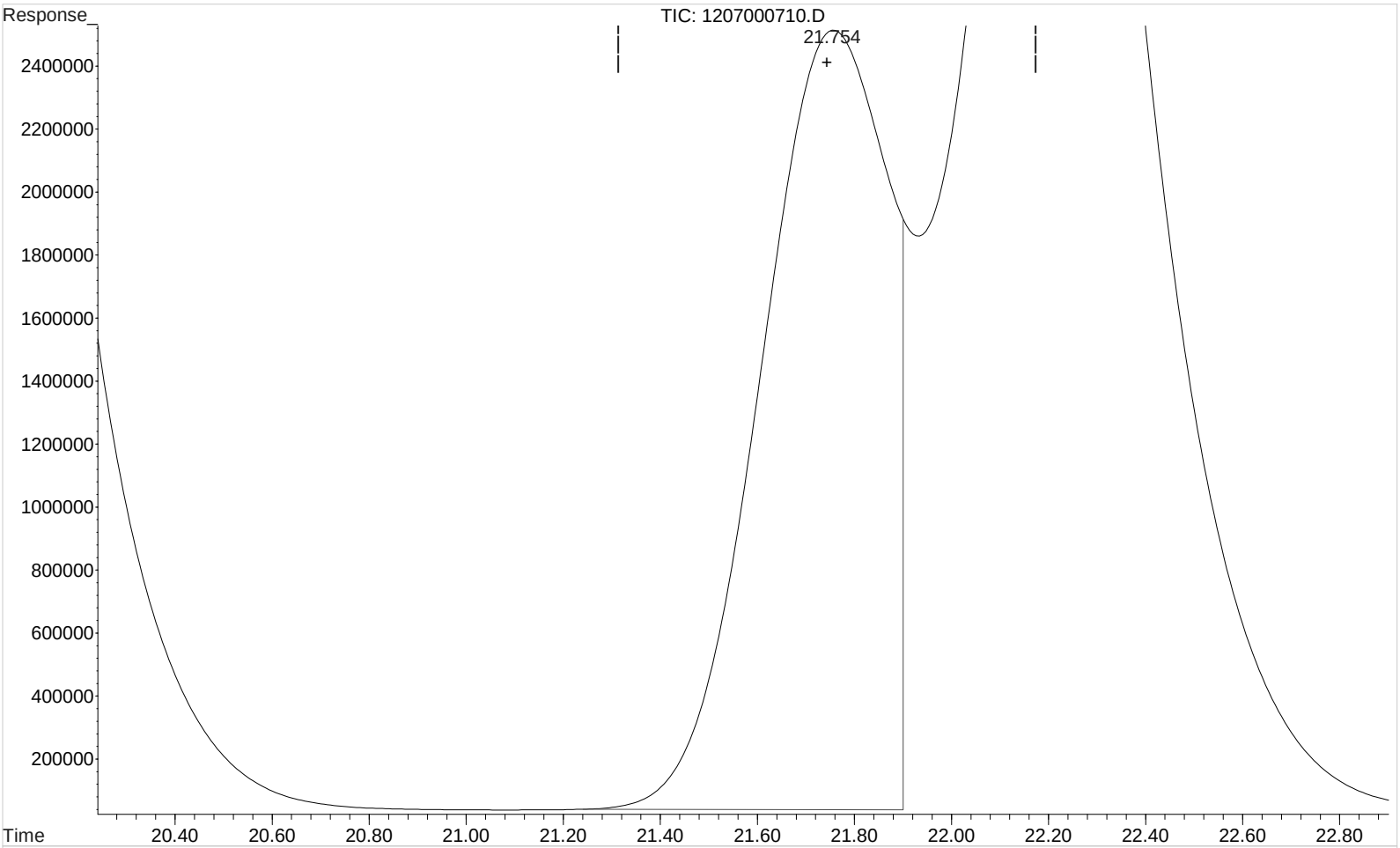


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.754min 1840.068 ug/L

response 45088454

Manual Integration:

Before

12/08/16

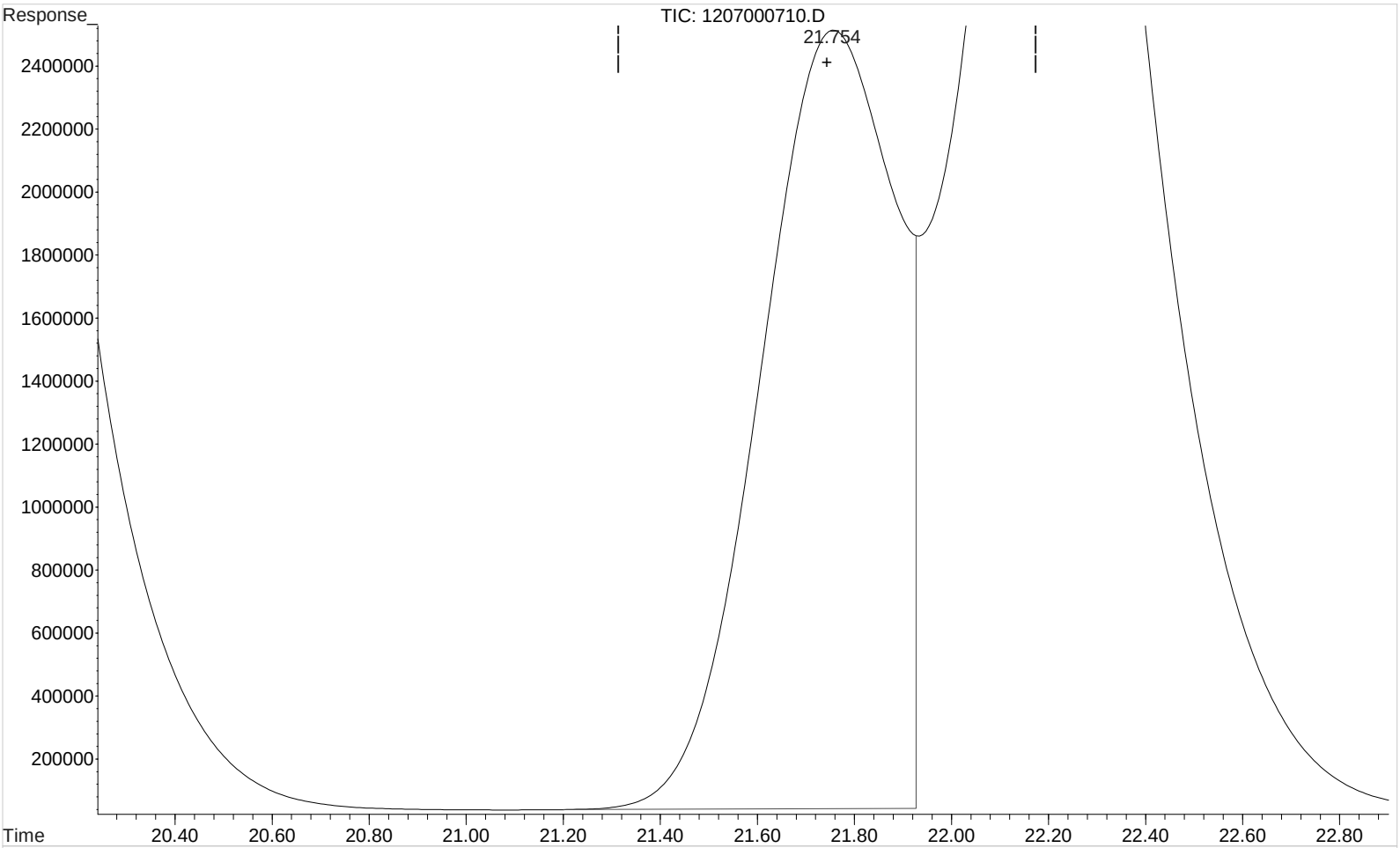
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.754min 1956.773 ug/L m

response 47948148

Manual Integration:

After

WP

12/08/16

(+) = Expected Retention Time

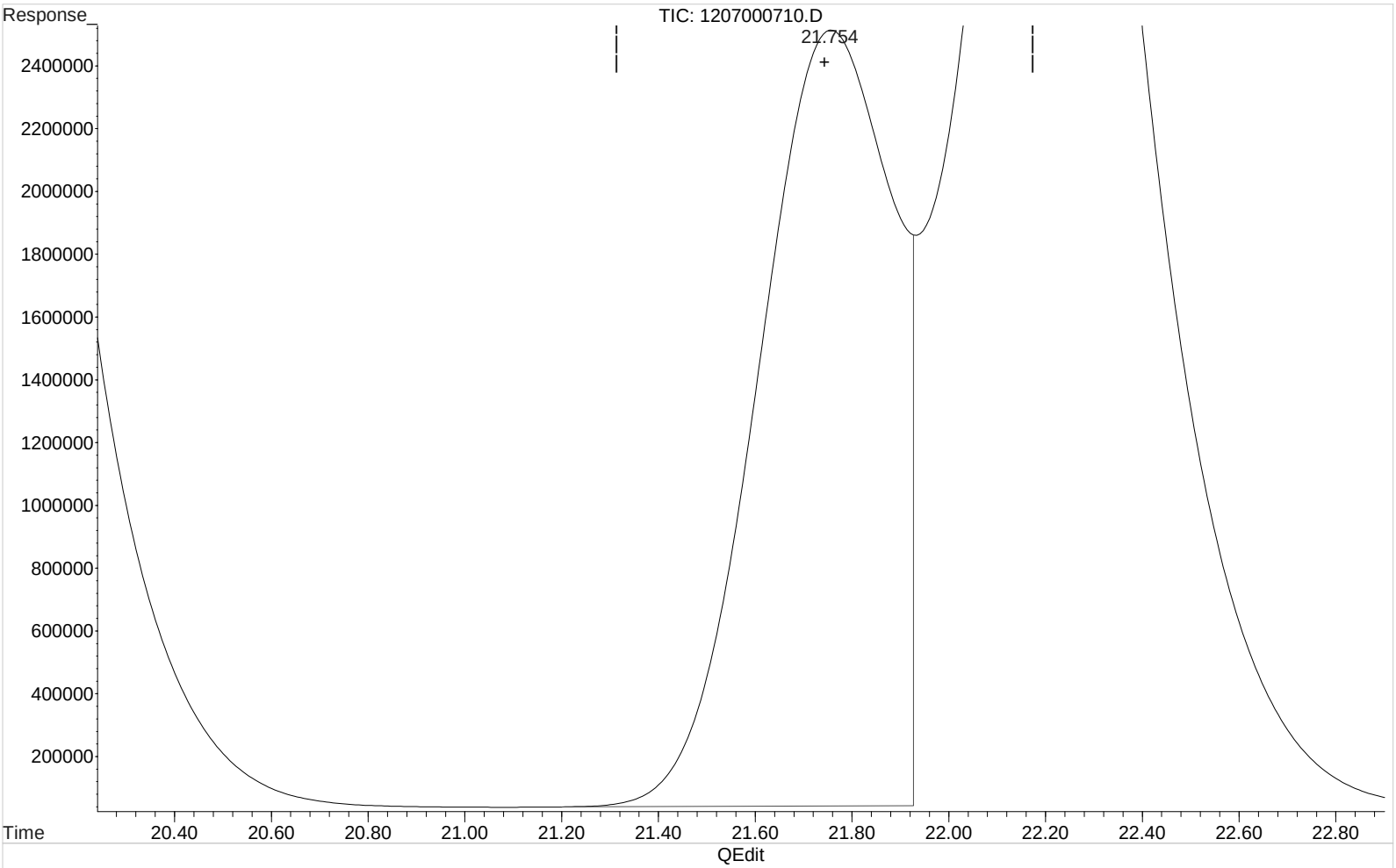
(b) (6)

/08/16
/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.754min 1956.773 ug/L m

response 47948148

Manual Integration:

After

BLC

12/08/16

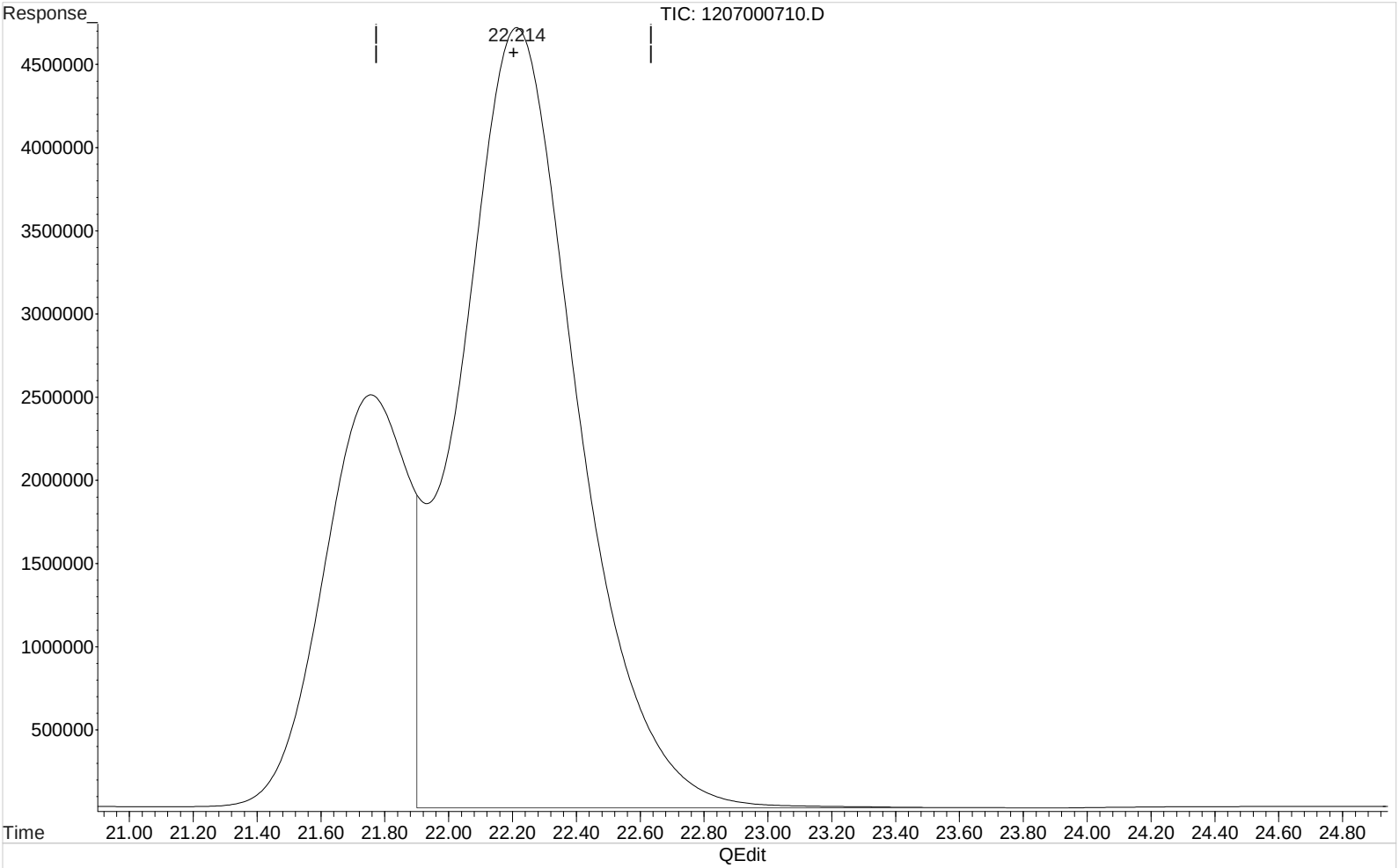
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.214min 2045.708 ug/L

response 120524006

Manual Integration:

Before

12/08/16

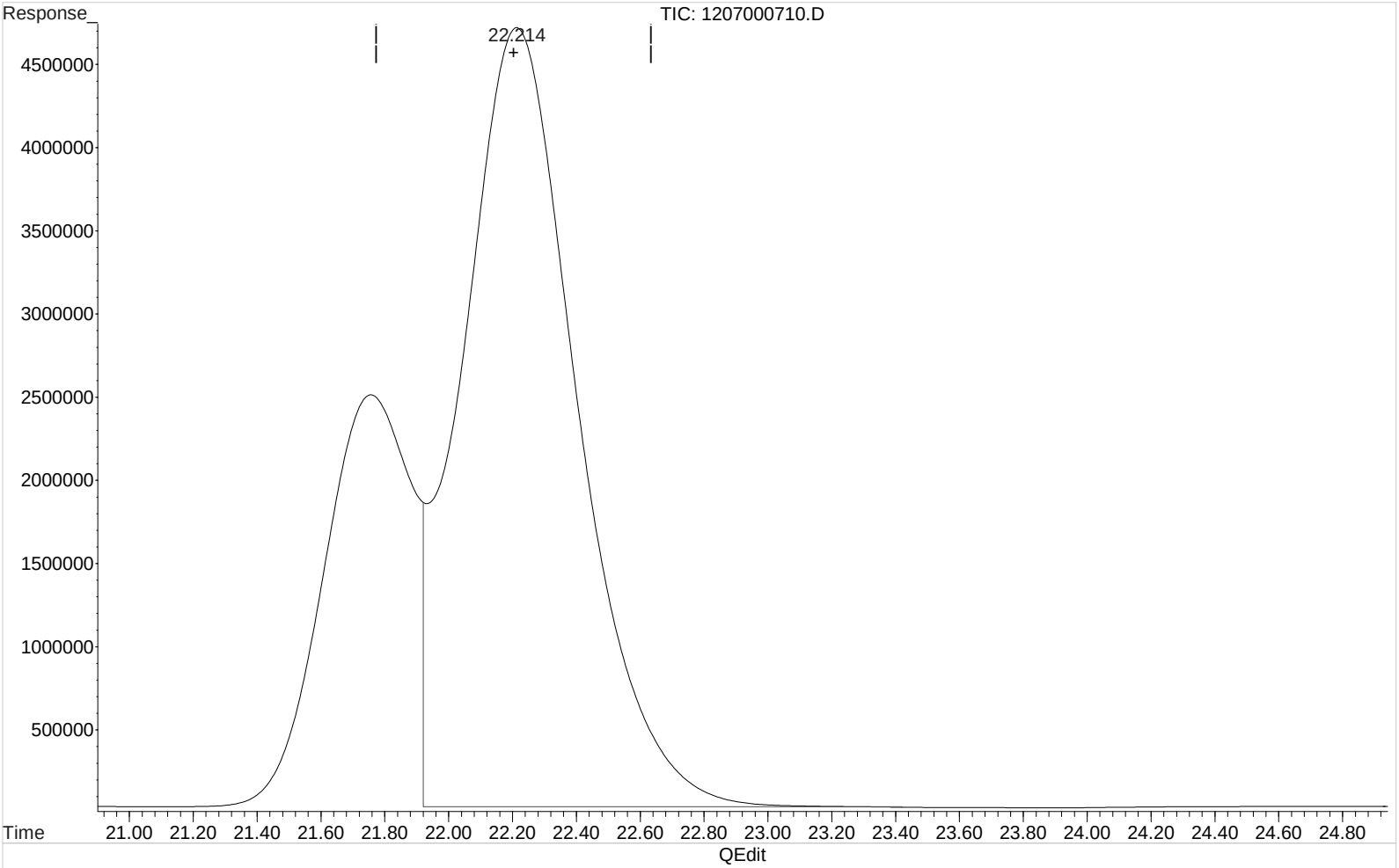
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.214min 1996.898 ug/L m

response 117648318

Manual Integration:

After

BLC

12/08/16

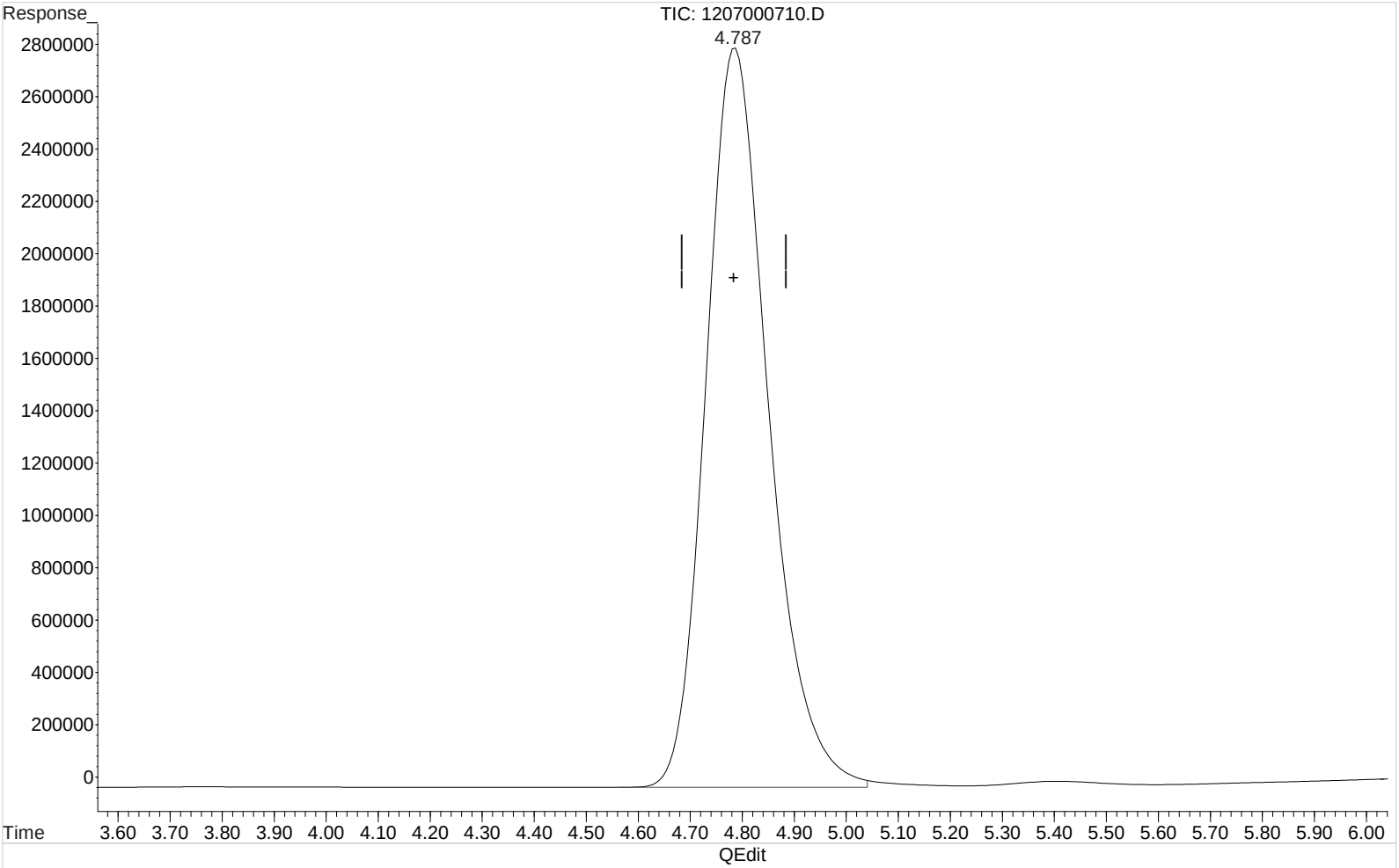
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(2) HMX (T)

4.787min 1973.169 ug/L

response 23640553

Manual Integration:

Before

12/08/16

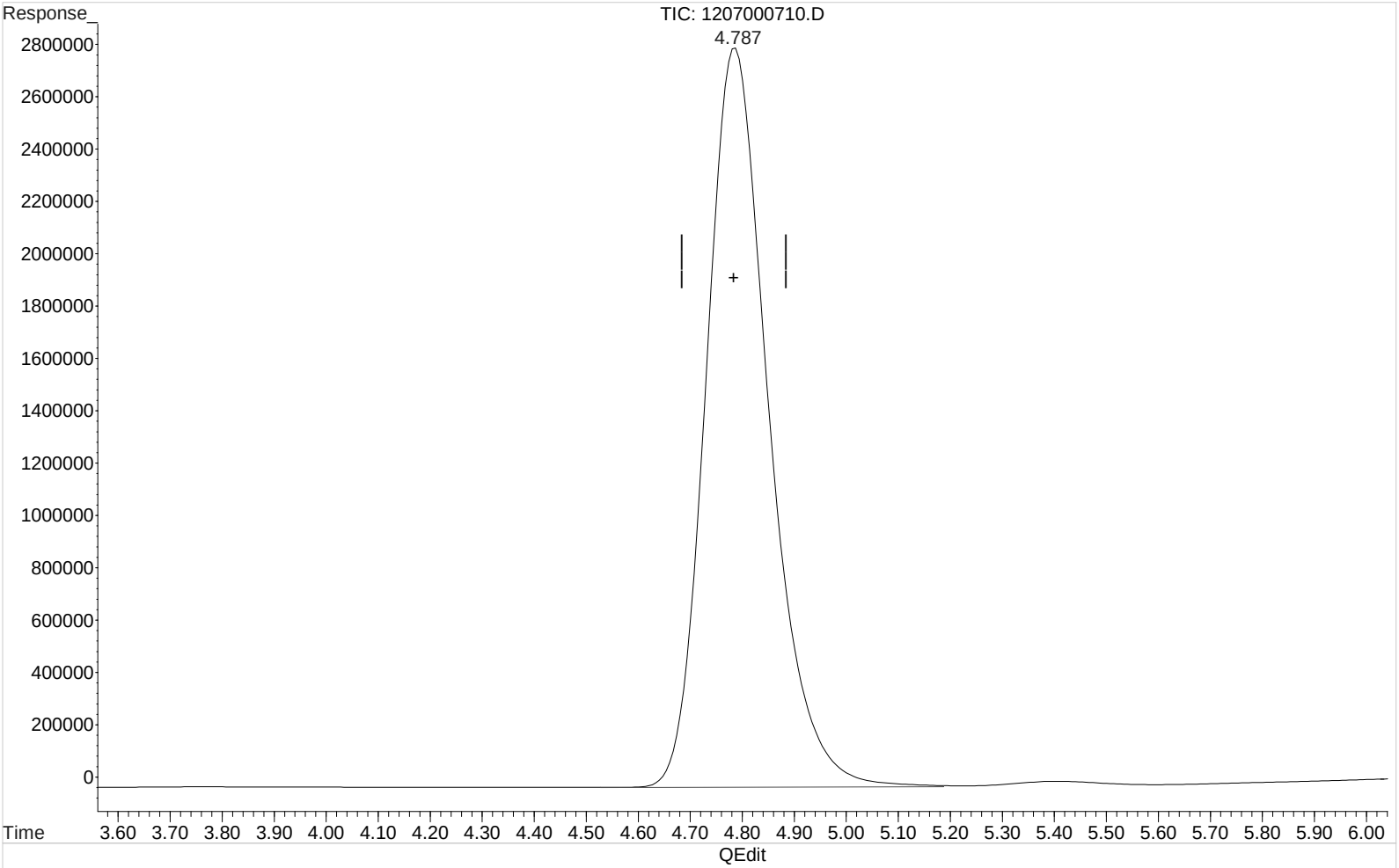
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(2) HMX (T)

4.787min 1979.985 ug/L m

response 23722211

Manual Integration:

After

BLC

12/08/16

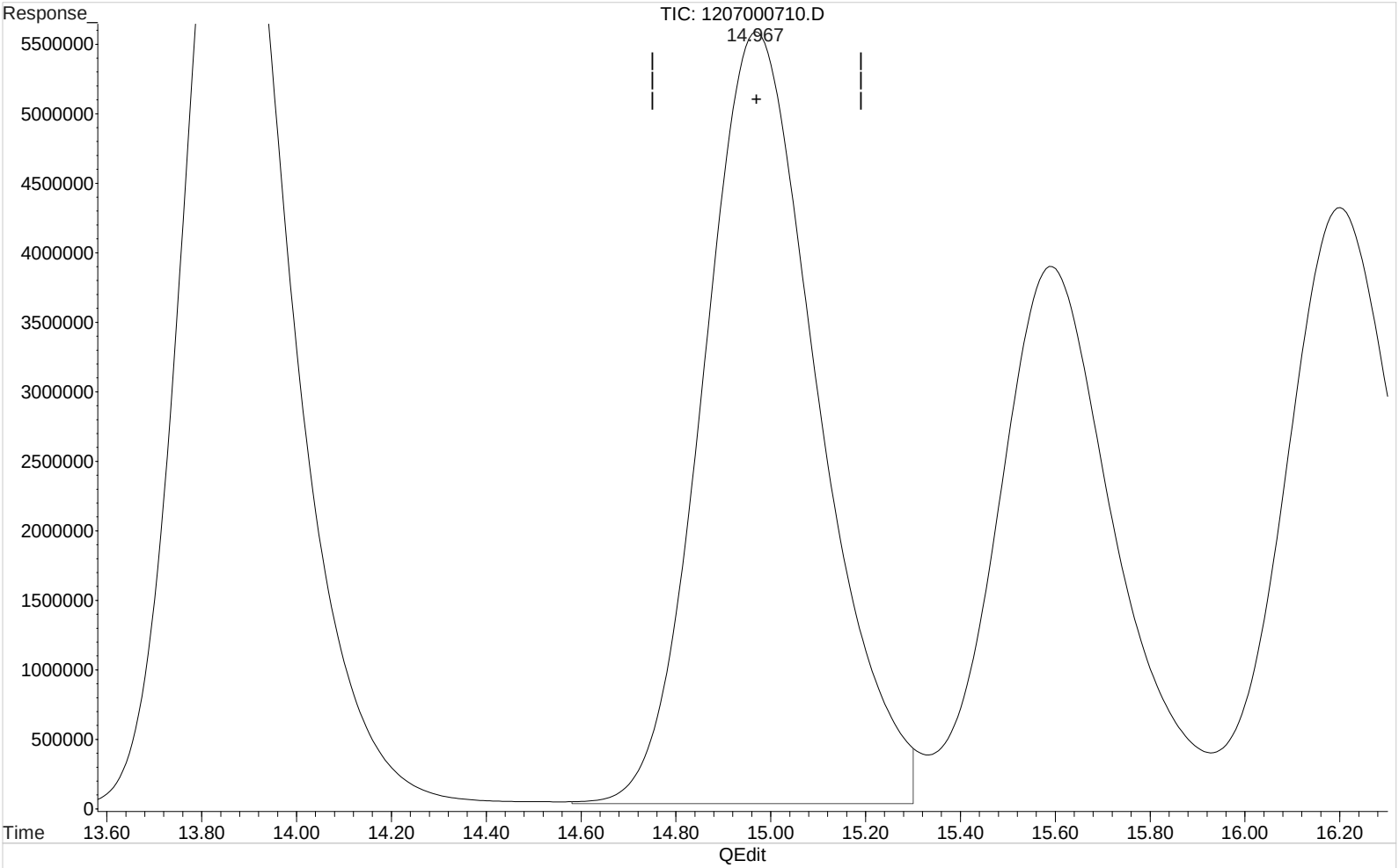
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.967min 1950.402 ug/L

response 93288206

Manual Integration:

Before

12/08/16

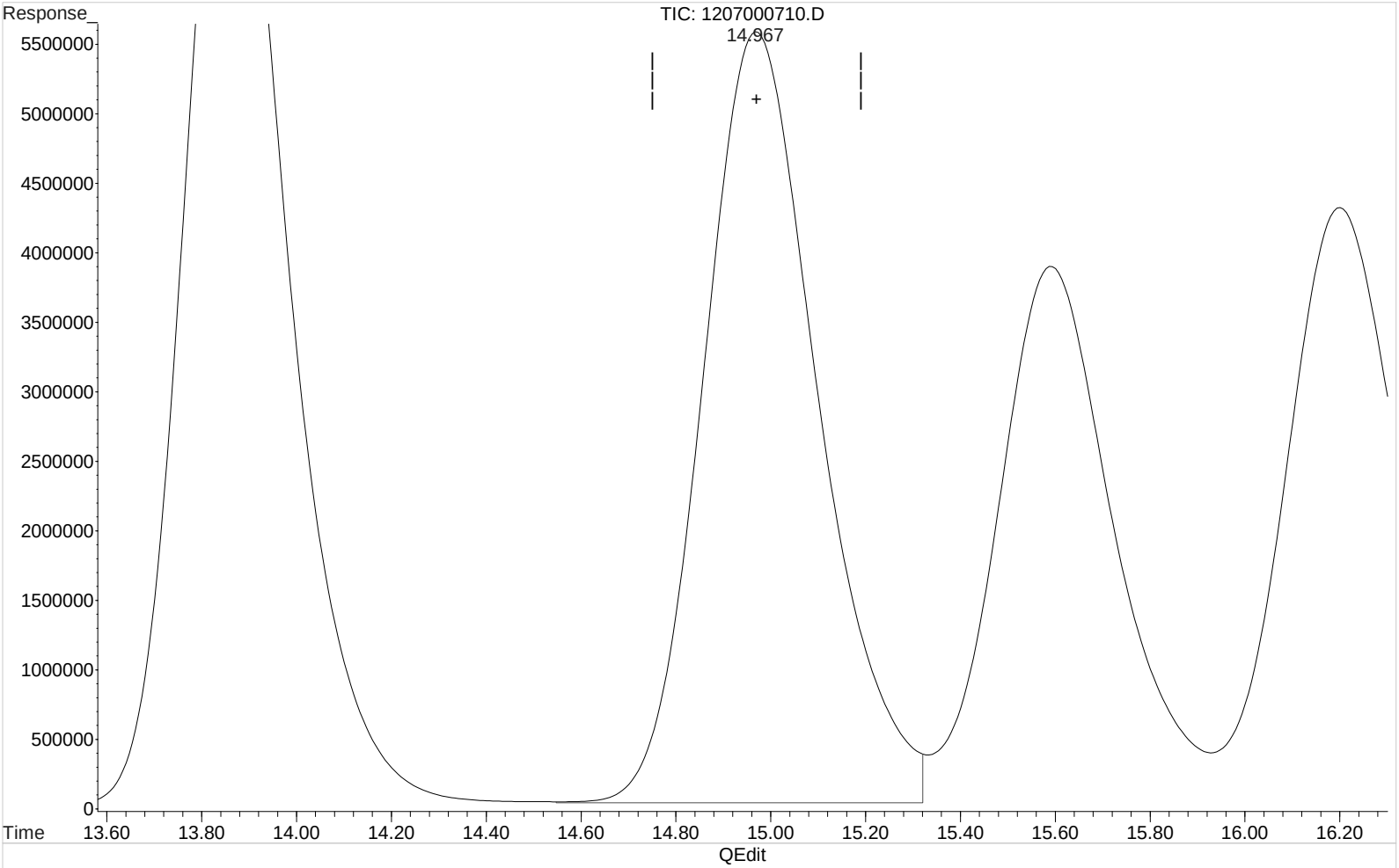
(+) = Expected Retention Time

(b) (6)
1s 12/08/16
2n 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.967min 1955.089 ug/L m

response 93512376

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000711.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:19:50 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:19:28 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
18) S	1-Chloro-3-Nitrobenzene	29.688	109933967	5013.299	ug/L
	Target Compounds				
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2) T	HMX	4.795	61046558	5102.573	ug/L
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4) T	RDX	8.375	100409384	5052.450	ug/L
5) T	1,3,5-TNB	10.501	226131460	5060.356	ug/L
6) T	1,3-DNB	13.835	304056740	5034.610	ug/L
7) T	3,5-Dinitroaniline	14.941	242816511	5092.969	ug/L
8) T	Tetryl	15.568	169129908	5066.642	ug/L
9) T	Nitrobenzene	16.168	196342707	5084.940	ug/L
10) T	2,4,6-TNT	17.421	212586394	5122.448	ug/L
11) T	4-Amino-2,6-DNT	19.175	150900677	5131.820	ug/L
12) T	2-Amino-4,6-DNT	20.001	212629441	4982.823	ug/L
13) T	2,6-DNT	21.735	123855451	5070.219	ug/L
14) T	2,4-DNT	22.188	303841514	5158.381	ug/L
15) T	2-NT	25.308	91795667	5117.146	ug/L
16) T	4-NT	26.235	79961280	5018.107	ug/L
17) T	3-NT	27.361	102384406	5081.725	ug/L

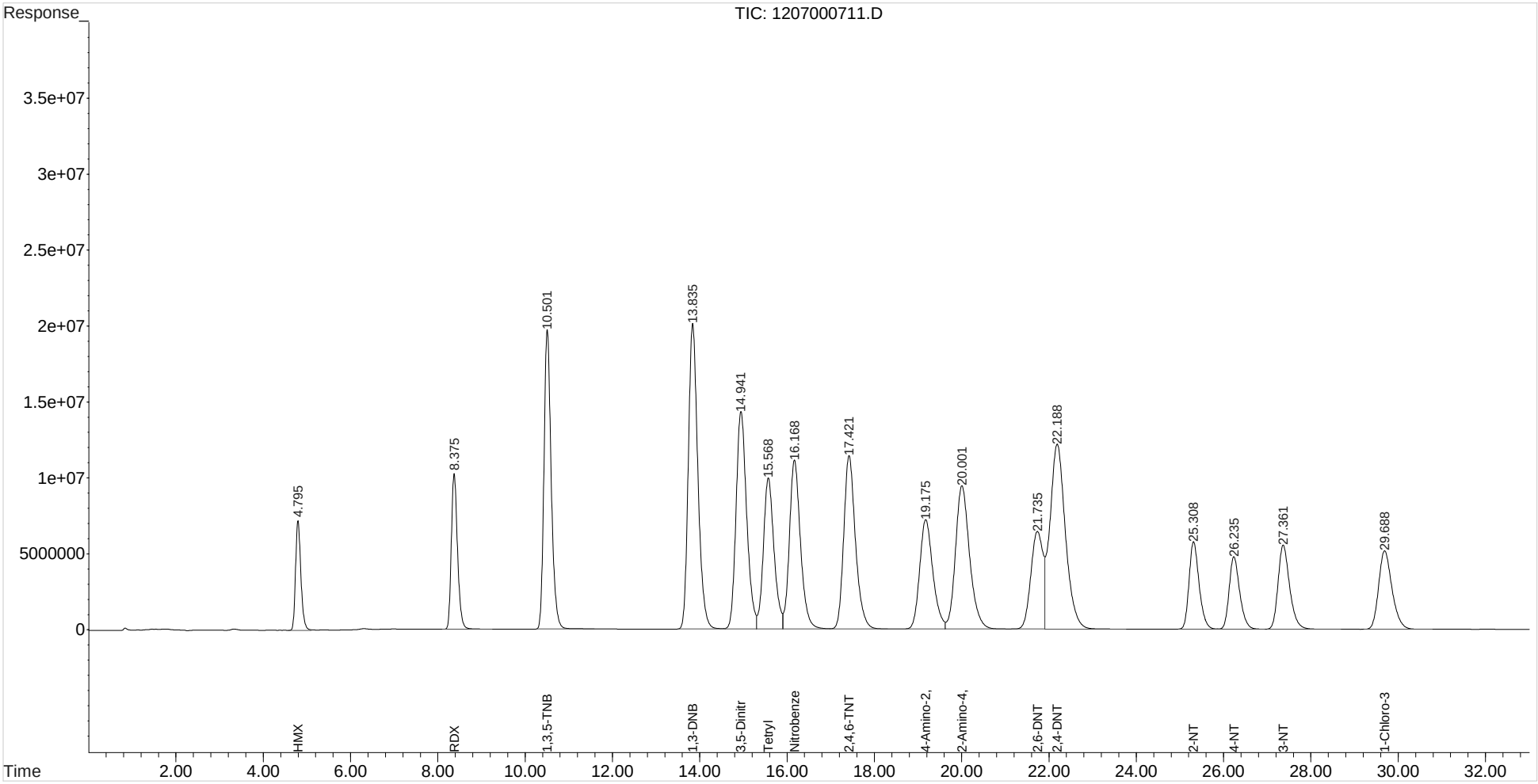
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000711.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:19:50 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:19:28 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000712.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:21:24 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:20:15 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
18)	S	1-Chloro-3-Nitrobenzene	29.704	188214338	8580.252	ug/L	
		Target Compounds					
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	4.784	116952177	9750.438	ug/L	m
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	8.378	193516345	9724.702	ug/L	
5)	T	1,3,5-TNB	10.518	436043077	9743.045	ug/L	
6)	T	1,3-DNB	13.844	585109637	9679.945	ug/L	
7)	T	3,5-Dinitroaniline	14.958	466801971	9768.261	ug/L	
8)	T	Tetryl	15.584	328561092	9826.366	ug/L	
9)	T	Nitrobenzene	16.191	378180319	9773.468	ug/L	
10)	T	2,4,6-TNT	17.438	410119977	9852.027	ug/L	
11)	T	4-Amino-2,6-DNT	19.191	290587885	9849.834	ug/L	
12)	T	2-Amino-4,6-DNT	20.018	410849938	9632.119	ug/L	
13)	T	2,6-DNT	21.751	239813080	9799.925	ug/L	m
14)	T	2,4-DNT	22.198	592003966	10010.937	ug/L	
15)	T	2-NT	25.318	175973088	9780.967	ug/L	
16)	T	4-NT	26.244	153399761	9622.509	ug/L	
17)	T	3-NT	27.371	196431690	9729.768	ug/L	

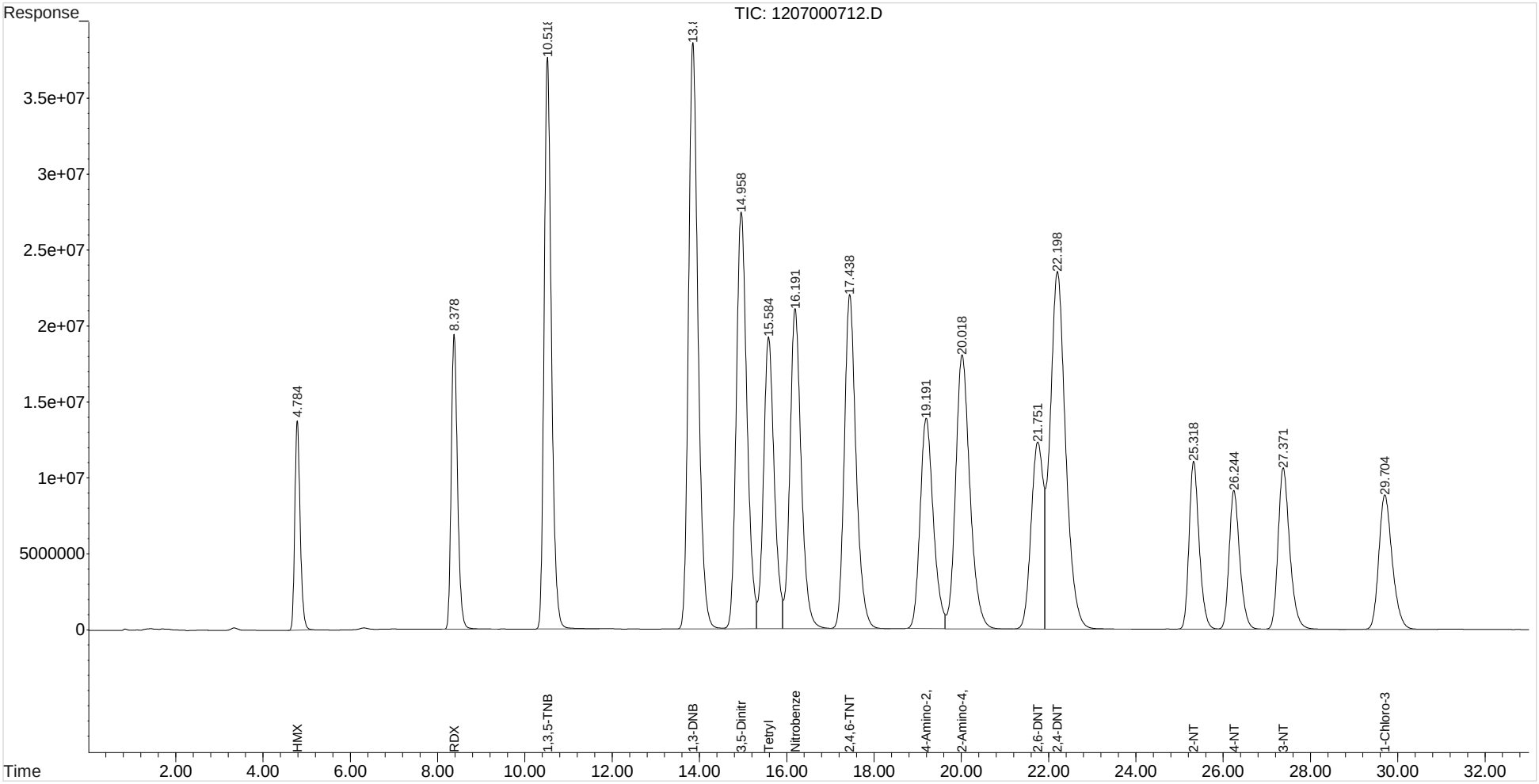
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000712.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:21:24 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:20:15 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(b) (6)

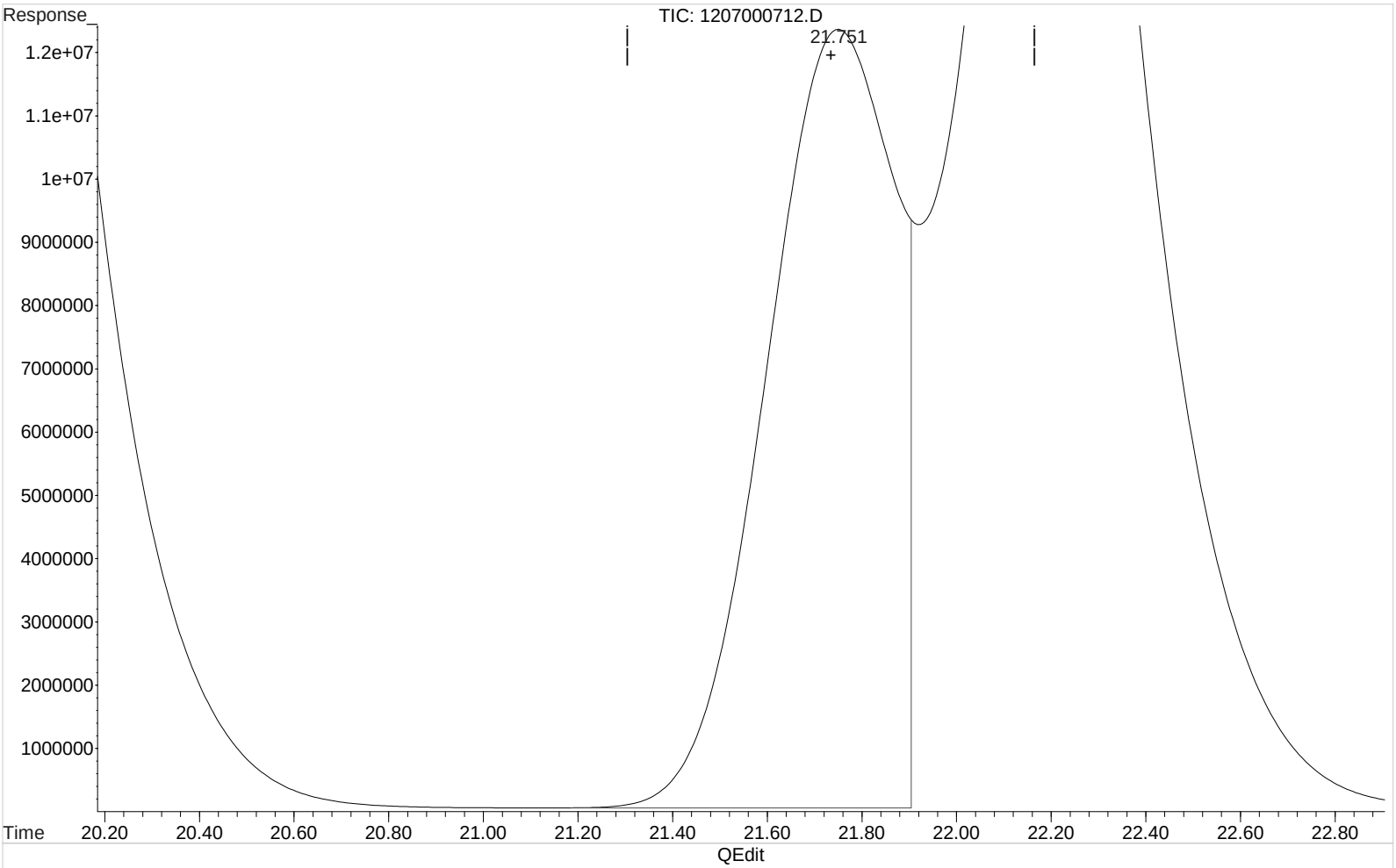
1st [redacted] /08/16

2nd [redacted] /09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000712.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:20:40 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:20:15 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.751min 9489.334 ug/L

response 232212639

Manual Integration:

Before

12/08/16

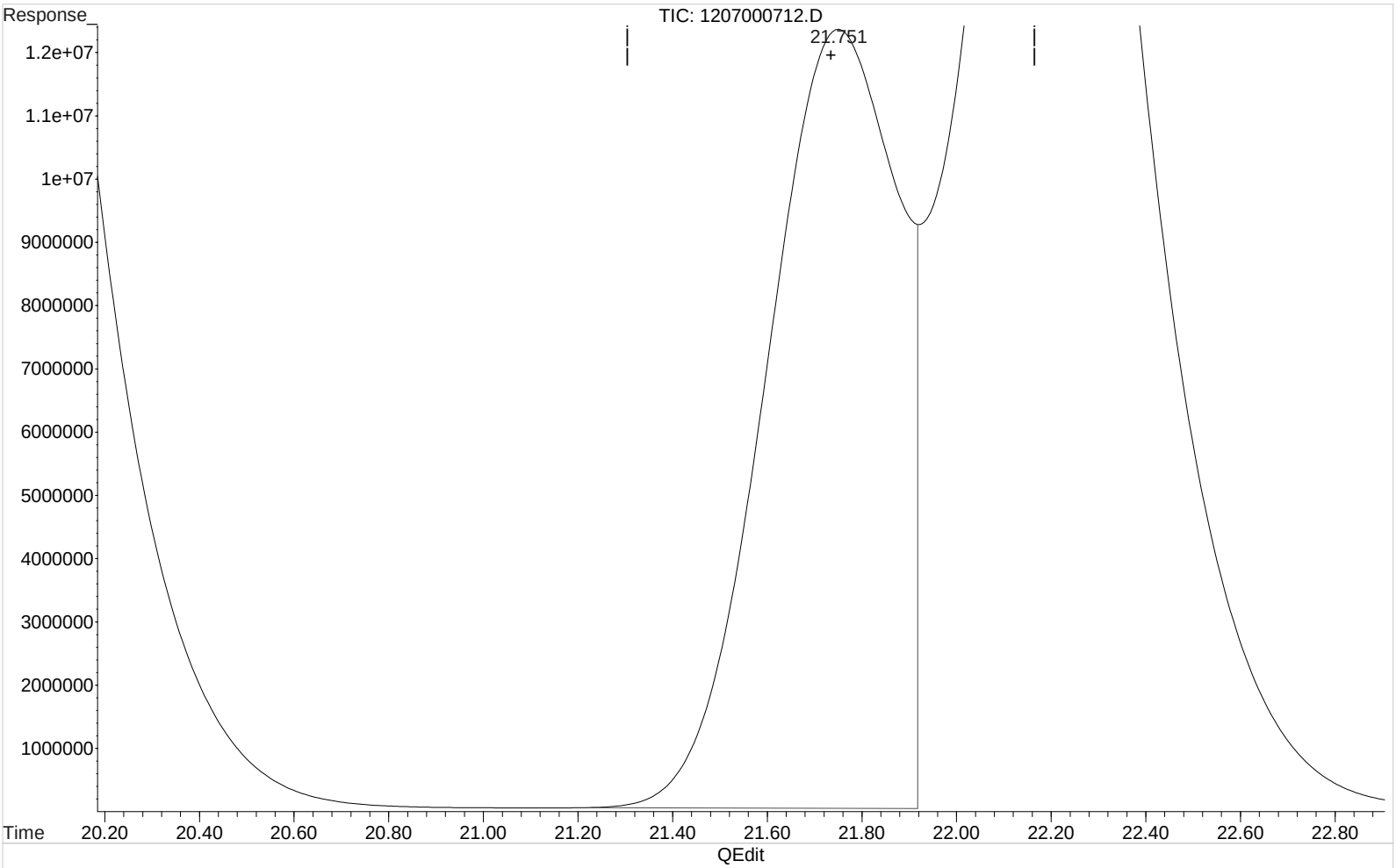
(+) = Expected Retention Time

(b)(6)
1st 12/08/16
2n 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000712.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:20:40 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:20:15 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.751min 9799.925 ug/L m

response 239813080

Manual Integration:

After

BLC

12/08/16

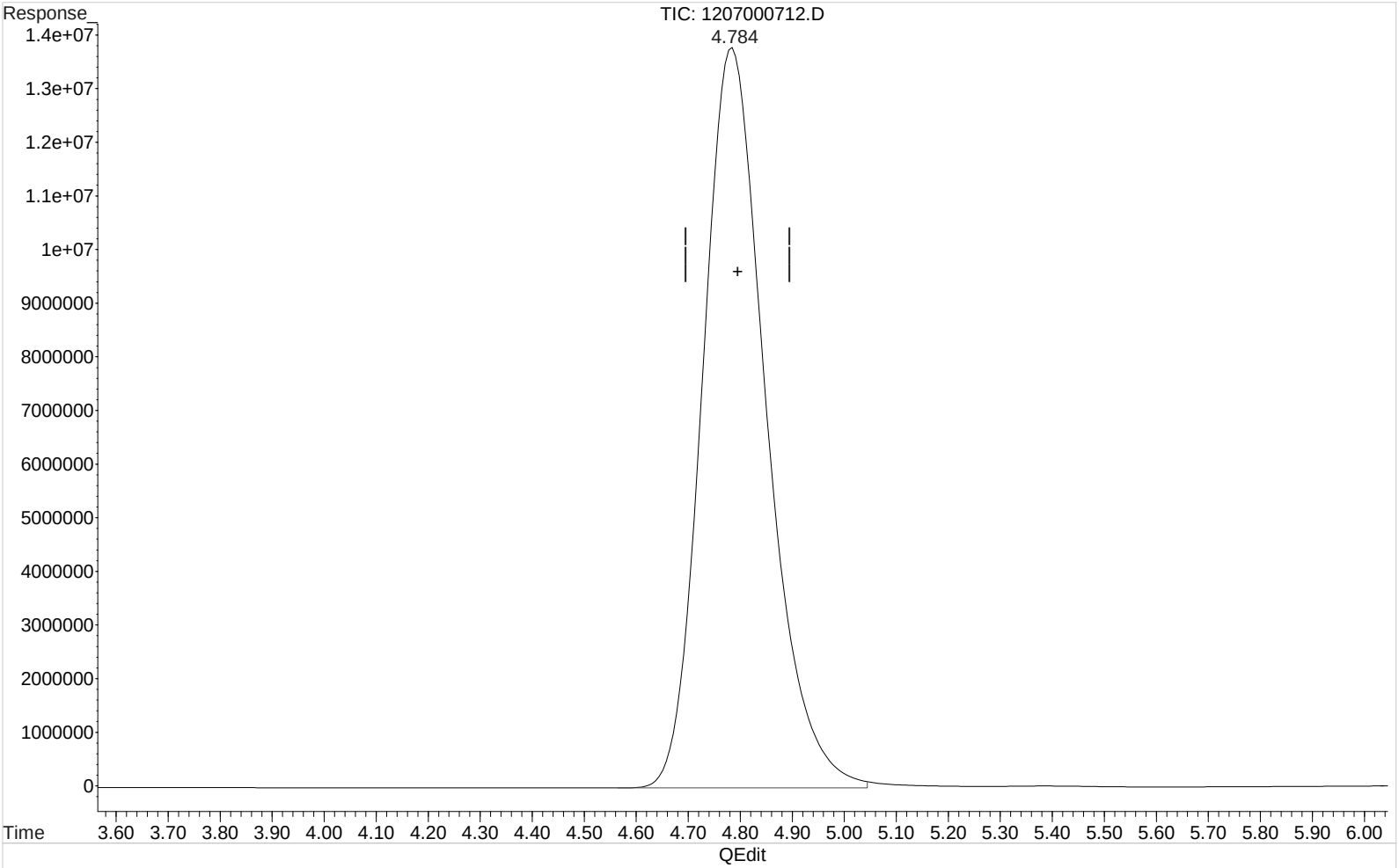
(+) = Expected Retention Time

(b) (6)
1st 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000712.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:20:40 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:20:15 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(2) HMX (T)

4.784min 9782.211 ug/L

response 117333279

Manual Integration:

Before

12/08/16

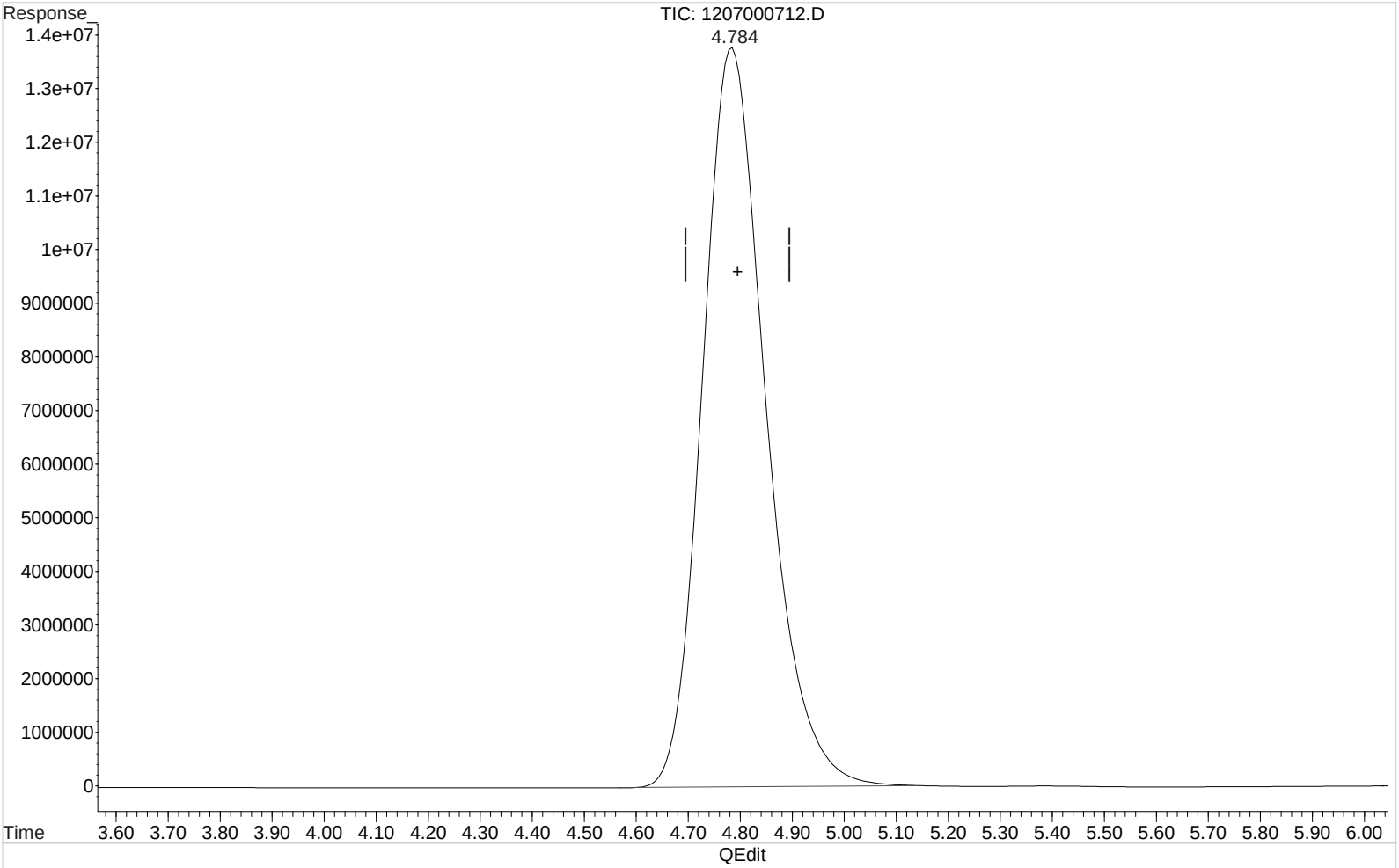
(+) = Expected Retention Time

1st (b) (6) 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000712.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:20:40 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:20:15 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(2) HMX (T)

4.784min 9750.438 ug/L m

response 116952177

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:23:02 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
18)	S	1-Chloro-3-Nitrobenzene	29.704	435685183	20180.213	ug/L	
		Target Compounds					
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	4.777	241966350	20229.108	ug/L	m
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	8.371	401104321	20218.386	ug/L	
5)	T	1,3,5-TNB	10.511	900466088	20177.826	ug/L	
6)	T	1,3-DNB	13.844	1214946342	20171.579	ug/L	
7)	T	3,5-Dinitroaniline	14.944	968917588	20327.834	ug/L	
8)	T	Tetryl	15.578	672938780	20164.667	ug/L	
9)	T	Nitrobenzene	16.184	775365787	20088.658	ug/L	
10)	T	2,4,6-TNT	17.438	850093674	20454.841	ug/L	
11)	T	4-Amino-2,6-DNT	19.184	601309368	20416.185	ug/L	
12)	T	2-Amino-4,6-DNT	20.004	851309194	20040.326	ug/L	
13)	T	2,6-DNT	21.758	497576104	20378.674	ug/L	m
14)	T	2,4-DNT	22.204	1201394842	20313.423	ug/L	m
15)	T	2-NT	25.324	362650447	20206.077	ug/L	
16)	T	4-NT	26.251	316882161	19961.209	ug/L	
17)	T	3-NT	27.384	404148803	20078.821	ug/L	

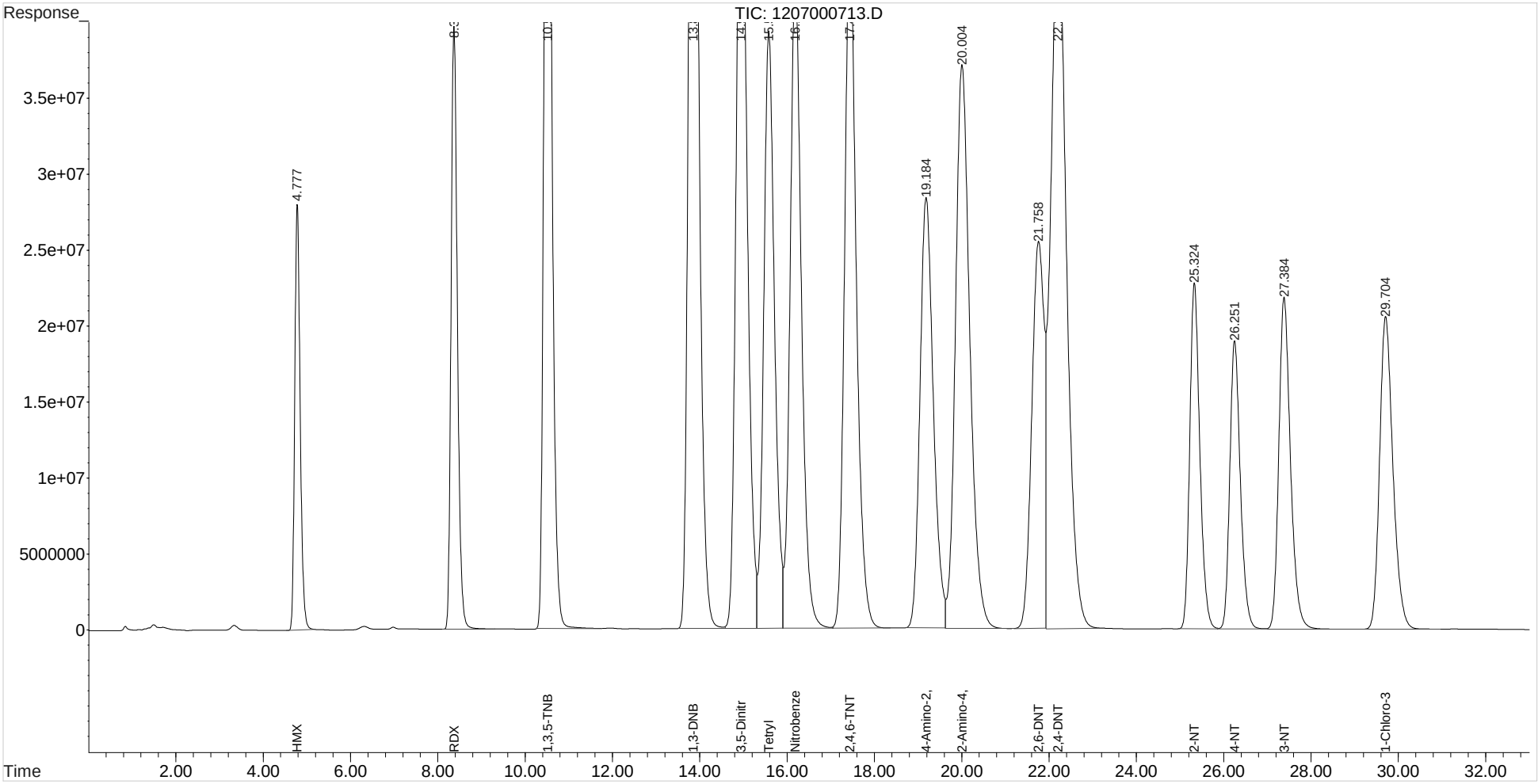
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:23:02 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

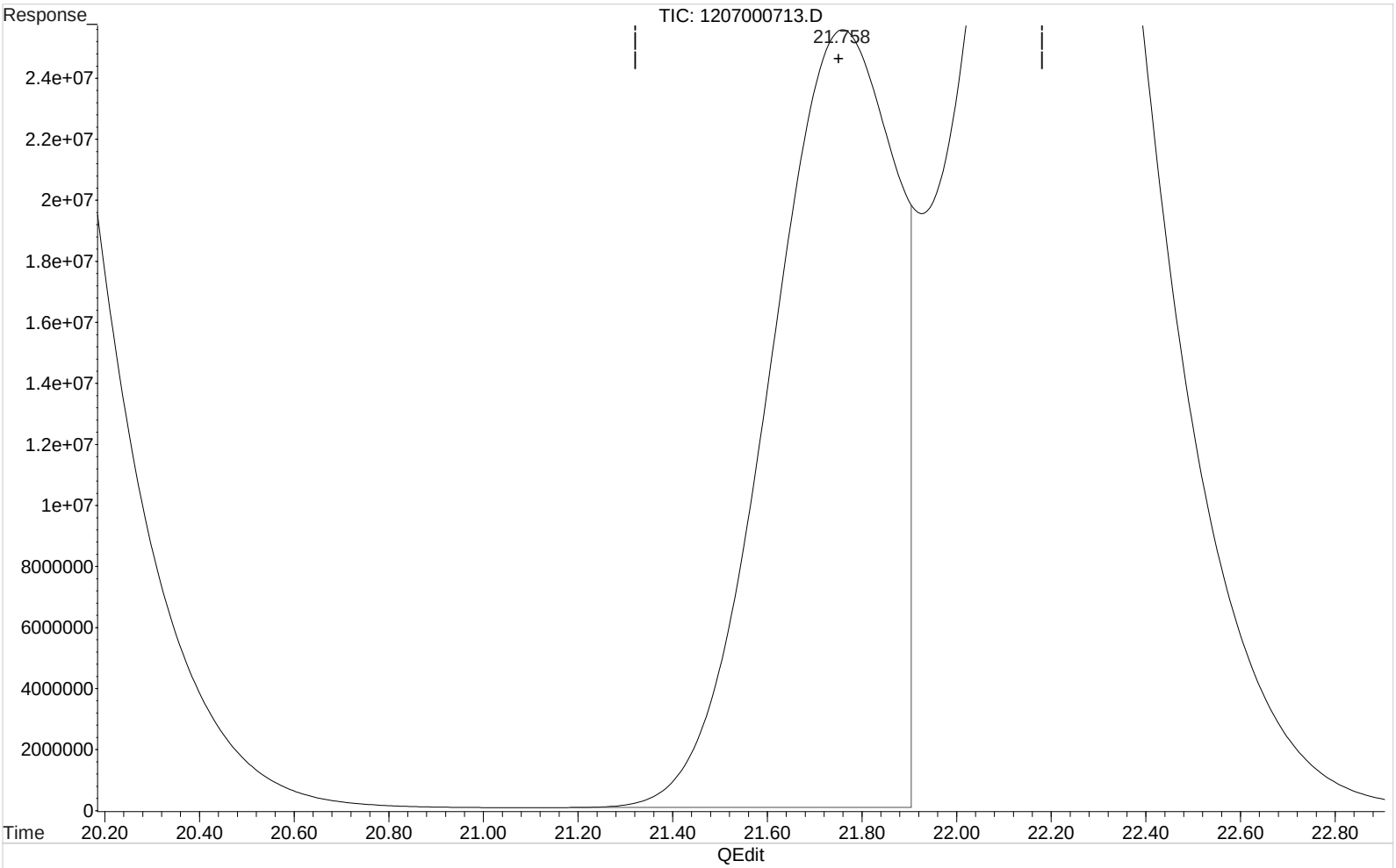


(b) (6)
1st 12/08/16
2n 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:22:15 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.758min 19437.420 ug/L

response 474593969

Manual Integration:

Before

12/08/16

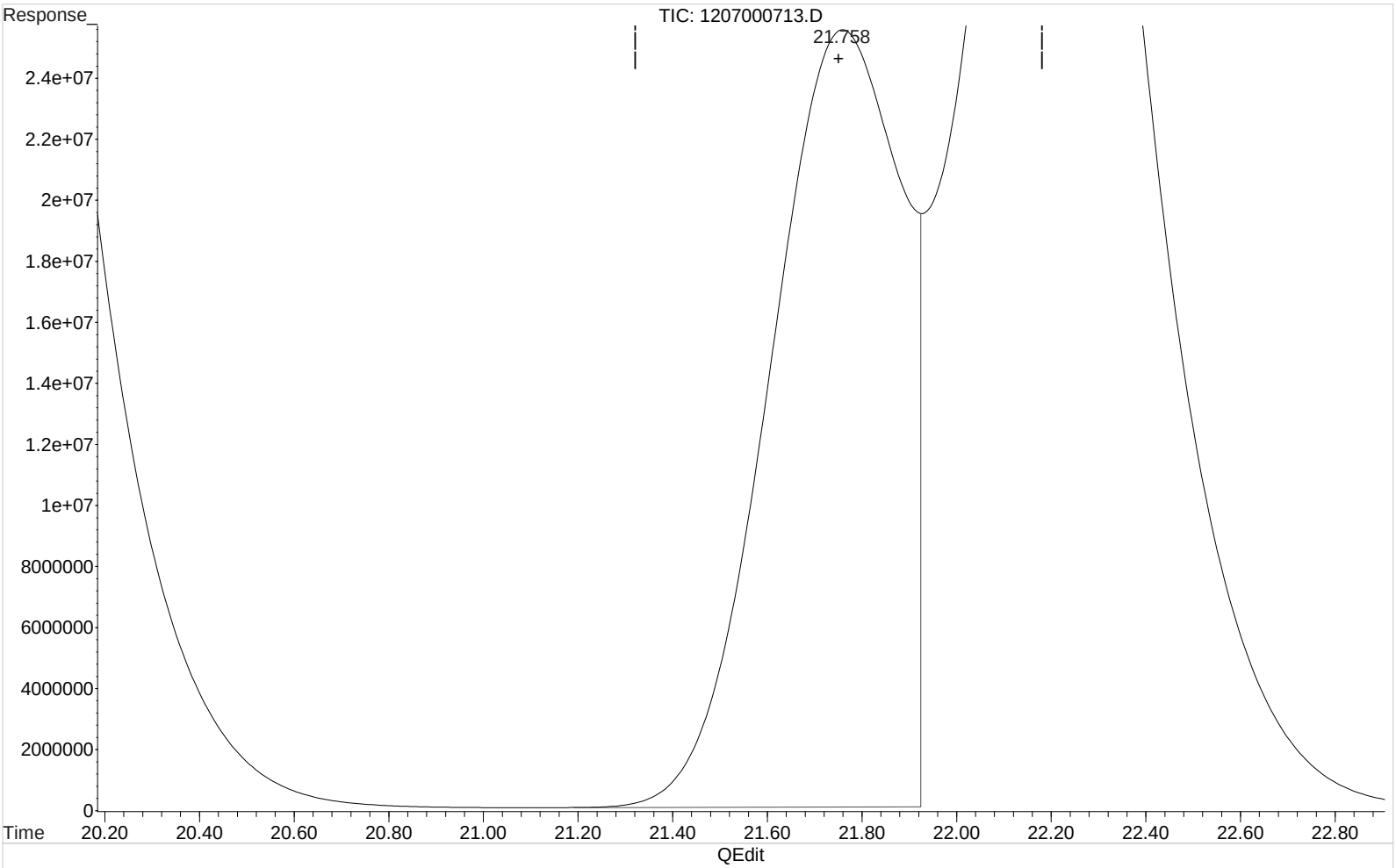
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:22:15 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.758min 20378.674 ug/L m

response 497576104

Manual Integration:

After

BLC

12/08/16

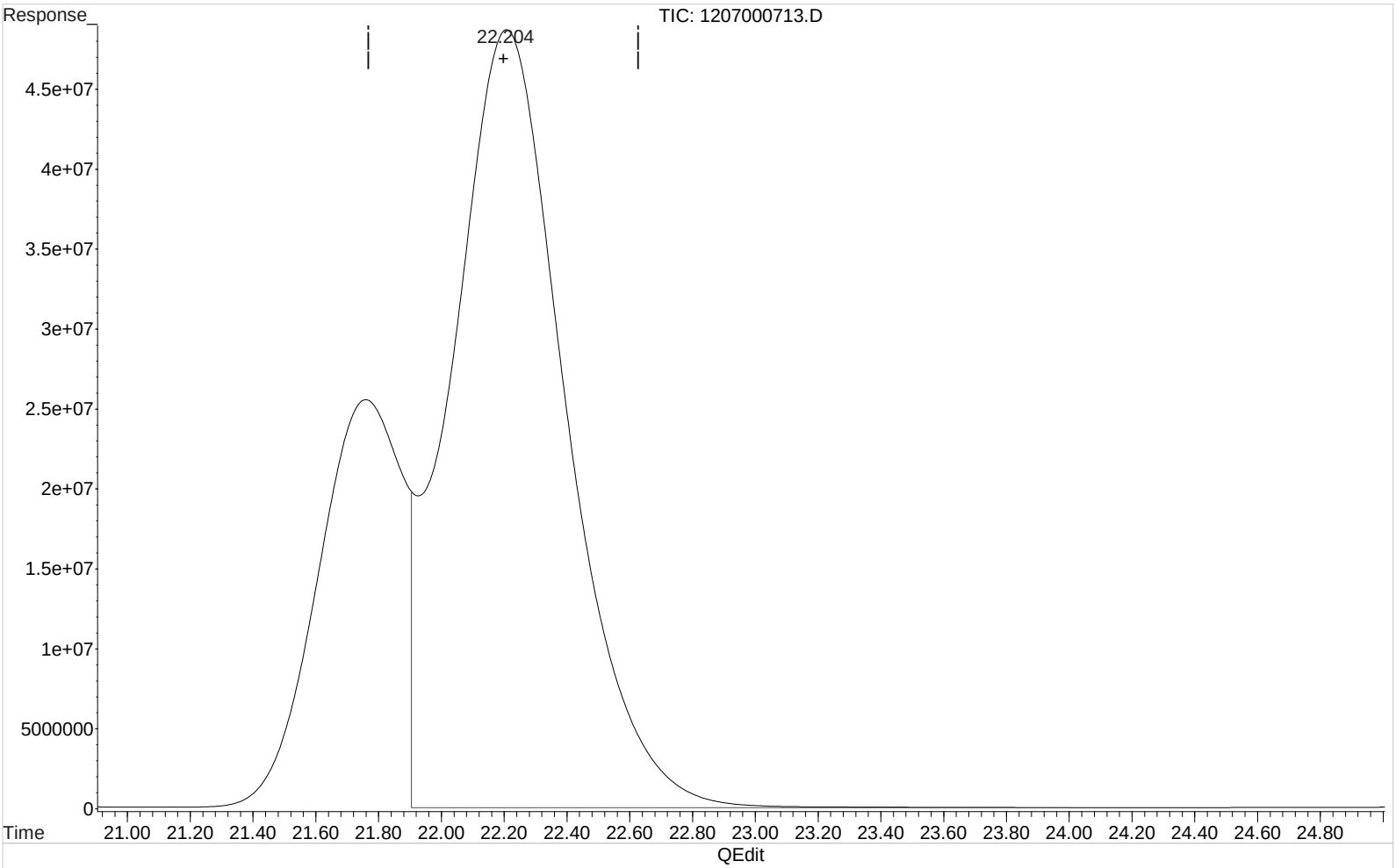
(+) = Expected Retention Time

1st (b) (6) 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:22:15 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.204min 20877.470 ug/L

response 1234754222

Manual Integration:

Before

12/08/16

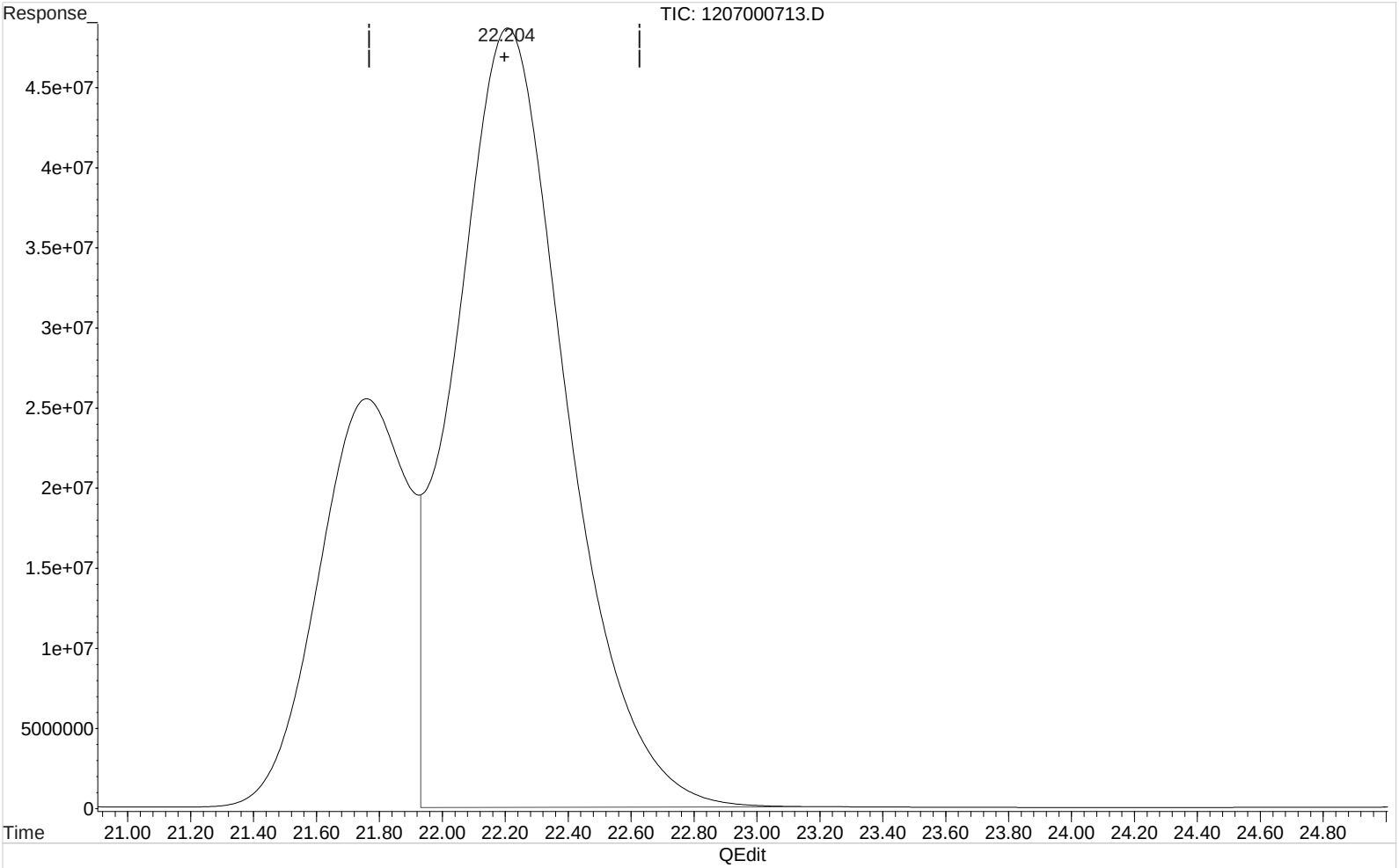
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:22:15 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.204min 20313.423 ug/L m

response 1201394842

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

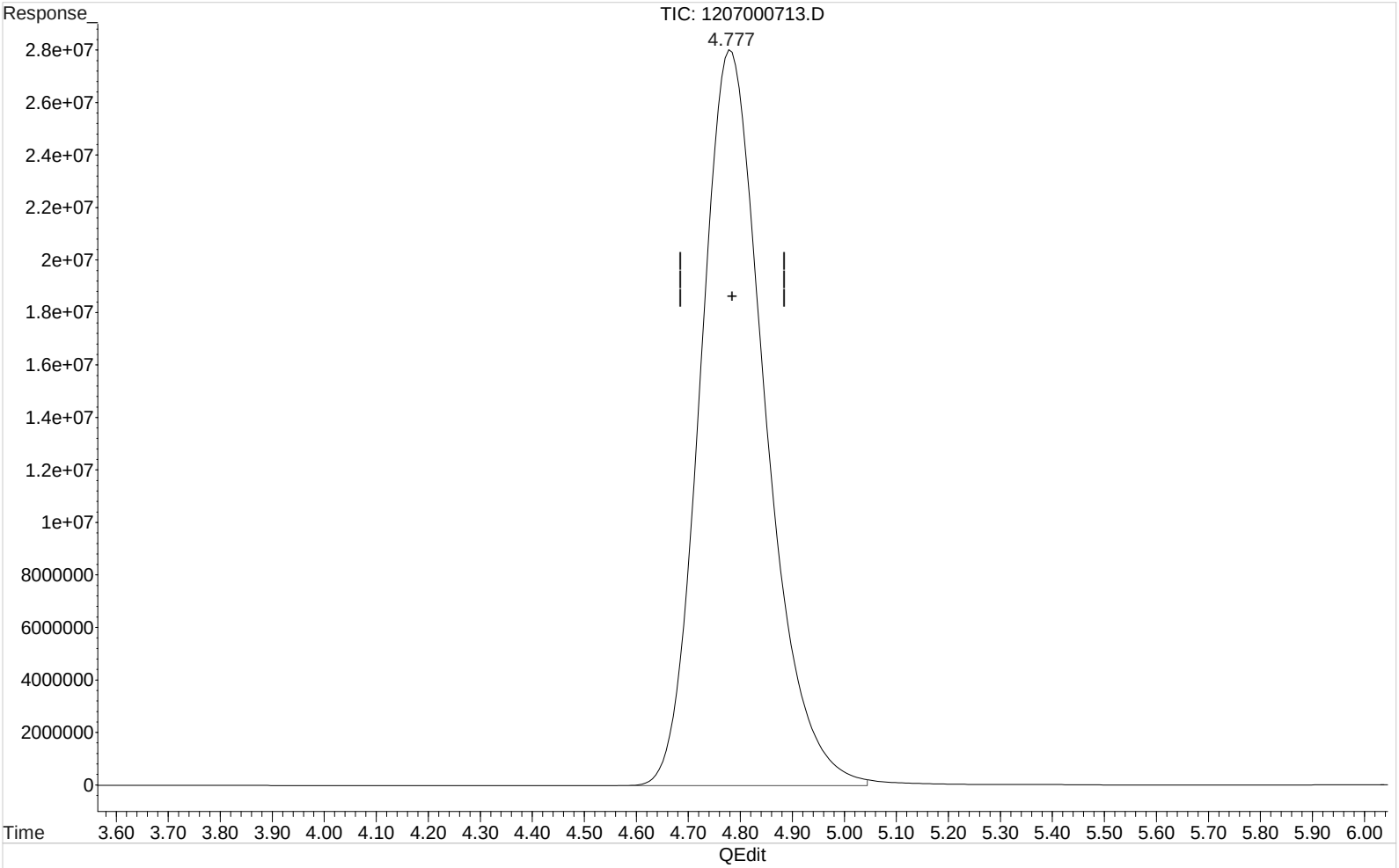
Quantitation Report (Qedit)

(b) (6)
1st 08/16
2nd 09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:22:15 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(2) HMX (T)

4.777min 20269.811 ug/L

response 242453211

Manual Integration:

Before

12/08/16

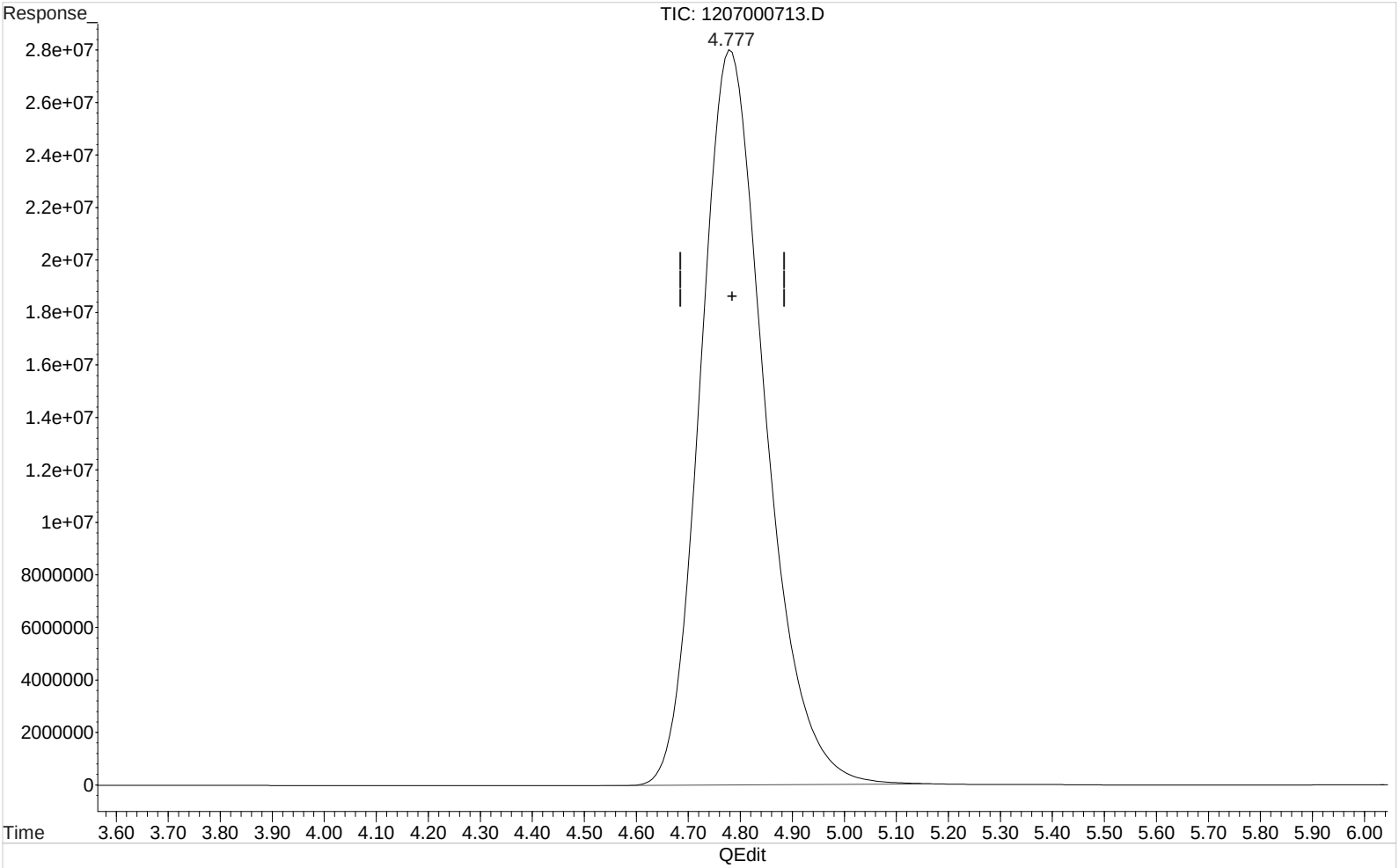
(+) = Expected Retention Time

1st (b) (6) 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:22:15 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(2) HMX (T)

4.777min 20229.108 ug/L m

response 241966350

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000715.D Vial: 13
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV ~~1000 PPB~~ 10,000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 13:49:43 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 13:47:31 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	29.691	178340313	8252.990	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	4.784	106984607	8933.998	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	8.371	176025842	8863.222	ug/L
5)	T	1,3,5-TNB	10.511	399499816	8944.120	ug/L
6)	T	1,3-DNB	13.851	535328425	8880.362	ug/L
7)	T	3,5-Dinitroaniline	14.958	428966341	8984.961	ug/L
8)	T	Tetryl	15.584	299167845	8957.215	ug/L
9)	T	Nitrobenzene	16.191	348449239	9023.839	ug/L
10)	T	2,4,6-TNT	17.438	377261904	9057.028	ug/L
11)	T	4-Amino-2,6-DNT	19.198	267038567	9047.901	ug/L
12)	T	2-Amino-4,6-DNT	20.017	374887145	8933.962	ug/L
13)	T	2,6-DNT	21.731	223573705	9139.357	ug/L
14)	T	2,4-DNT	22.184	532654960	8992.144	ug/L
15)	T	2-NT	25.311	161287053	8977.306	ug/L
16)	T	4-NT	26.231	141966427	8944.559	ug/L
17)	T	3-NT	27.364	176761245	8778.349	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

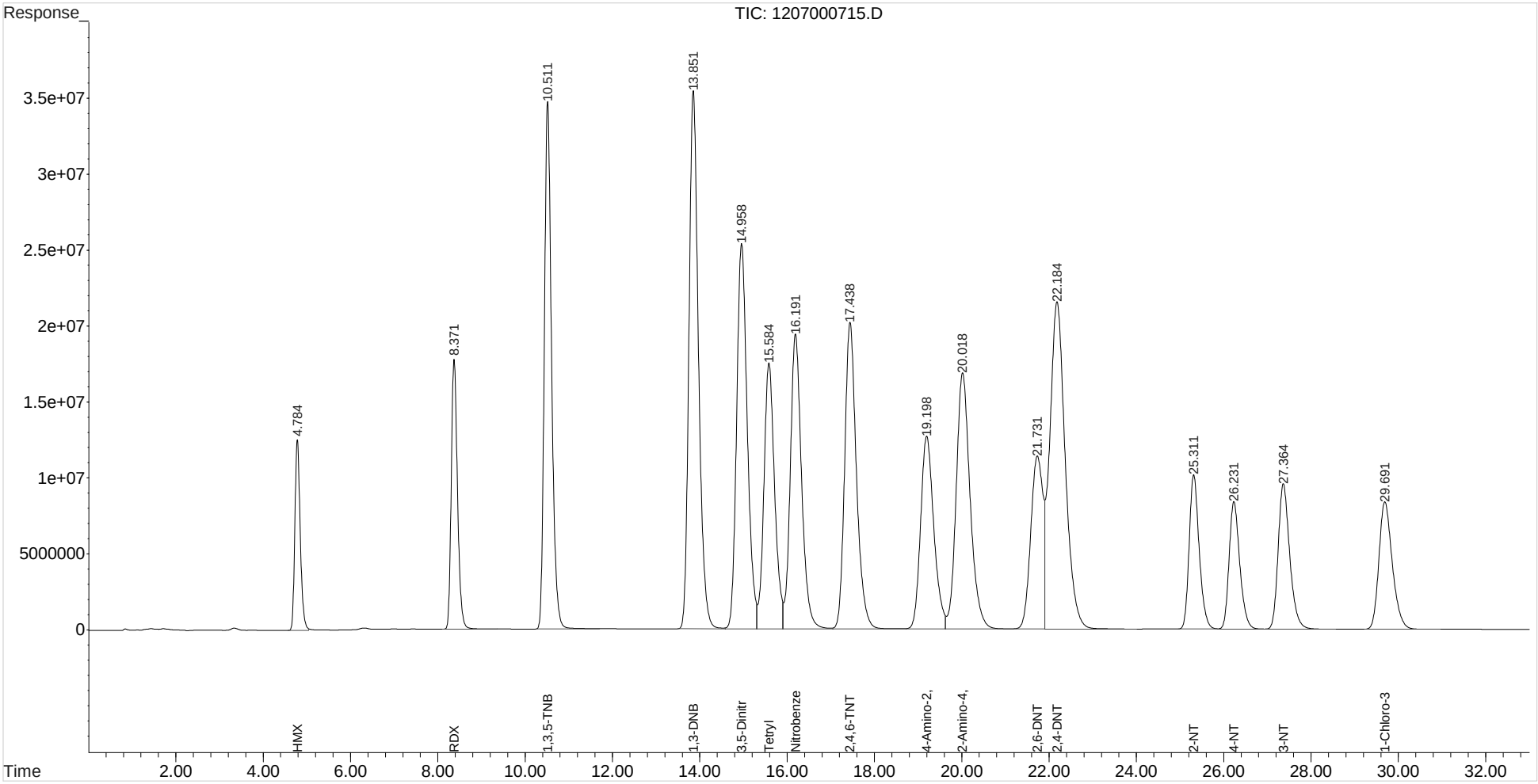
Quantitation Report (Not Reviewed)

1st (b)(6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000715.D Vial: 13
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 13:49:43 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 13:47:31 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



Date: 12/7/2016 **ALS Kelso, WA** **ICAL Date:** 12/7/2016

By: AE **Injection Log** **ICAL ID:** (254)-15062 (210)-15063

Stealth ID: n/a **LC10 - Agilent 1260** **LIMS ID:** **2nd Review:** n/a (b) (6)

Column: Phen. Synergi Hydro-RP 80A 250x4.6 mm SN 759076-19

Mobile Phases A: MeOH Lot#: 56175 **B:** ACN Lot#: 56165 **C:** H_2O Lot#: 56006 **D:**

	Sample Name	File Name	Method	Dilution	R	Comments
1		12070000101	8330BX+DIAMINOS.M	NA		
2		12070000102	8330BX+DIAMINOS.M	NA		
3		1207000202	8330BX+DIAMINOS.M	NA		
4		1207000203	8330BX+DIAMINOS.M	NA		
5		1207000204	8330BX+DIAMINOS.M	NA		
6		1207000205	8330BX+DIAMINOS.M	NA		
7		1207000206	8330BX+DIAMINOS.M	NA		
8		1207000207	8330BX+DIAMINOS.M	NA		
9		1207000303	8330BX+DIAMINOS.M	NA		
10		1207000404	8330BX+DIAMINOS.M	NA		
11		1207000405	8330BX+DIAMINOS.M	NA		
12		1207000505	8330BX+DIAMINOS.M	NA		
13		1207000601	8330BX+DIAMINOS.M	NA		
14		1207000602	8330BX+DIAMINOS.M	NA		
15		1207000603	8330BX+DIAMINOS.M	NA		
16		1207000701	8330BX+DIAMINOS.M	NA		
17		1207000702	8330BX+DIAMINOS.M	NA		
18	IB	1207000703	8330BX+DIAMINOS.M	NA	X	
19	16-OLC-01-89J 20 PPB	1207000704	8330BX+DIAMINOS.M	NA	X	
20	16-OLC-01-89I 50 PPB	1207000705	8330BX+DIAMINOS.M	NA	X	
21	16-OLC-01-89H 100 PPB	1207000706	8330BX+DIAMINOS.M	NA	X	
22	16-OLC-01-89G 200 PPB	1207000707	8330BX+DIAMINOS.M	NA	X	
23	16-OLC-01-89F 500 PPB	1207000708	8330BX+DIAMINOS.M	NA	X	
24	16-OLC-01-89E 1000 PPB	1207000709	8330BX+DIAMINOS.M	NA	X	
25	16-OLC-01-89D 2000 PPB	1207000710	8330BX+DIAMINOS.M	NA	X	
26	16-OLC-01-89C 5000 PPB	1207000711	8330BX+DIAMINOS.M	NA	X	
27	16-OLC-01-89B 10000 PPB	1207000712	8330BX+DIAMINOS.M	NA	X	
28	16-OLC-01-89A 20000 PPB	1207000713	8330BX+DIAMINOS.M	NA	X	
29	IB	1207000714	8330BX+DIAMINOS.M	NA	X	
30	16-OLC-01-89K 10000 PPB ICV	1207000715	8330BX+DIAMINOS.M	NA	X	

(Cal not valid for Diaminos)

FM

R:\OLC\Injection Logs\LC10 2016\INJLOG_LC10_xl_120716_ICAL

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000703.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 19:36:44 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:14:56 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:09:42 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
Target Compounds						
1) T	Nitroglycerin	0.000	0	N.D.	ug/L	d
2) T	PETN	27.763	156171	8.404	ug/L	

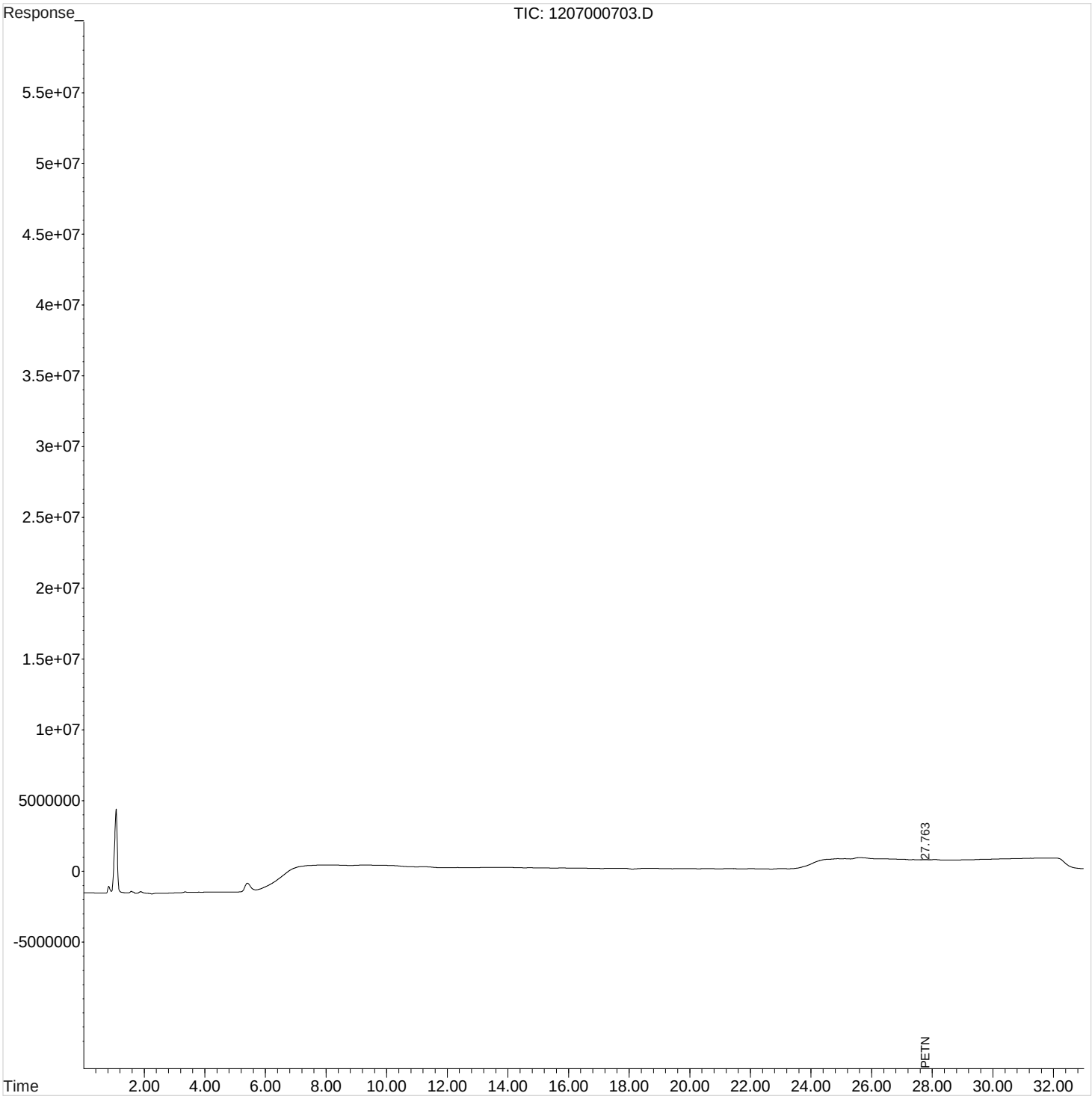
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000703.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 19:36:44 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:14:56 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:09:42 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:04 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.707	3217434	NoCal	ug/L	m
Target Compounds						
1) T	Nitroglycerin	16.654	1445069	NoCal	ug/L	m
2) T	PETN	27.787	1323782	NoCal	ug/L	m

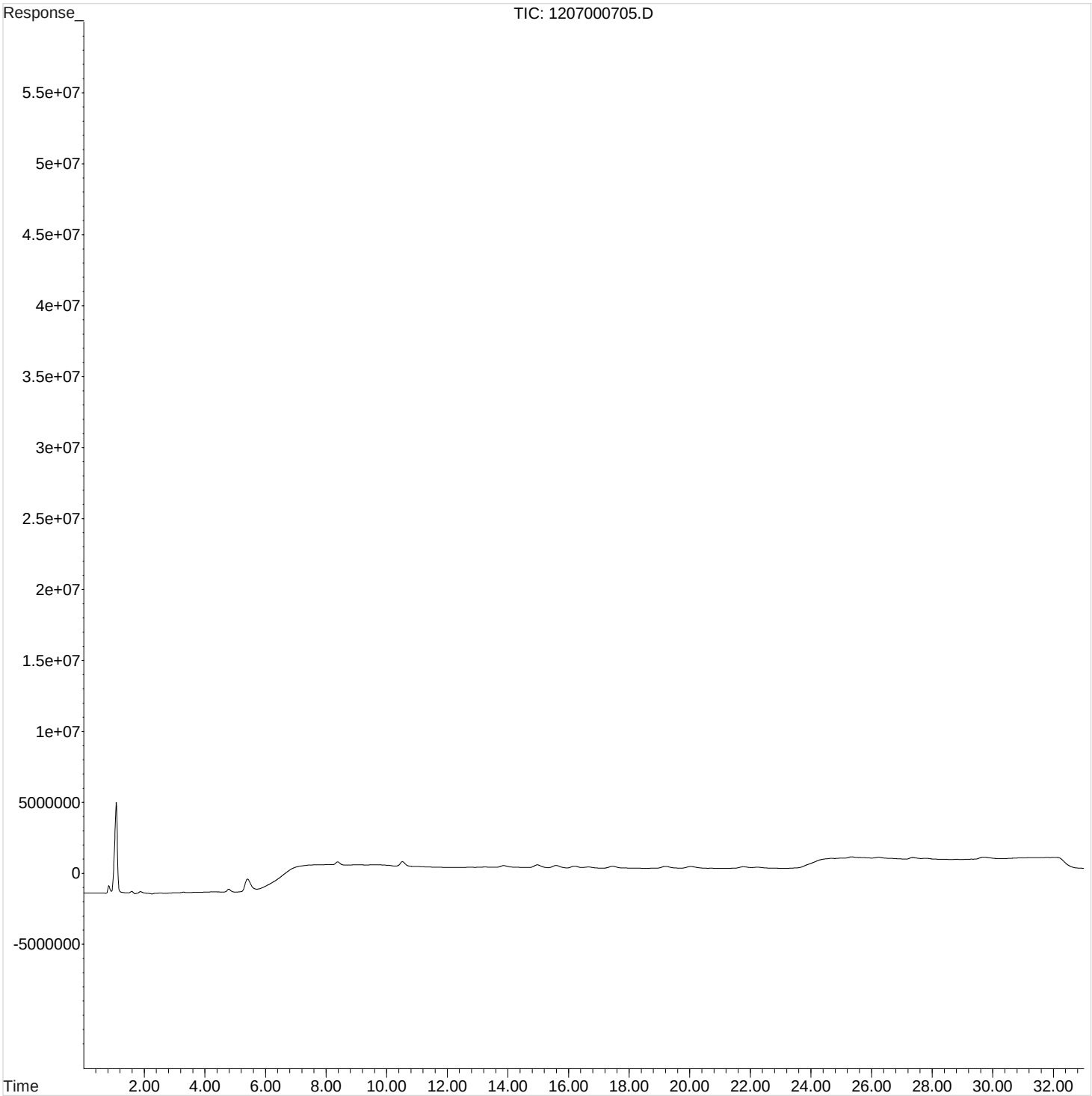
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:04 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

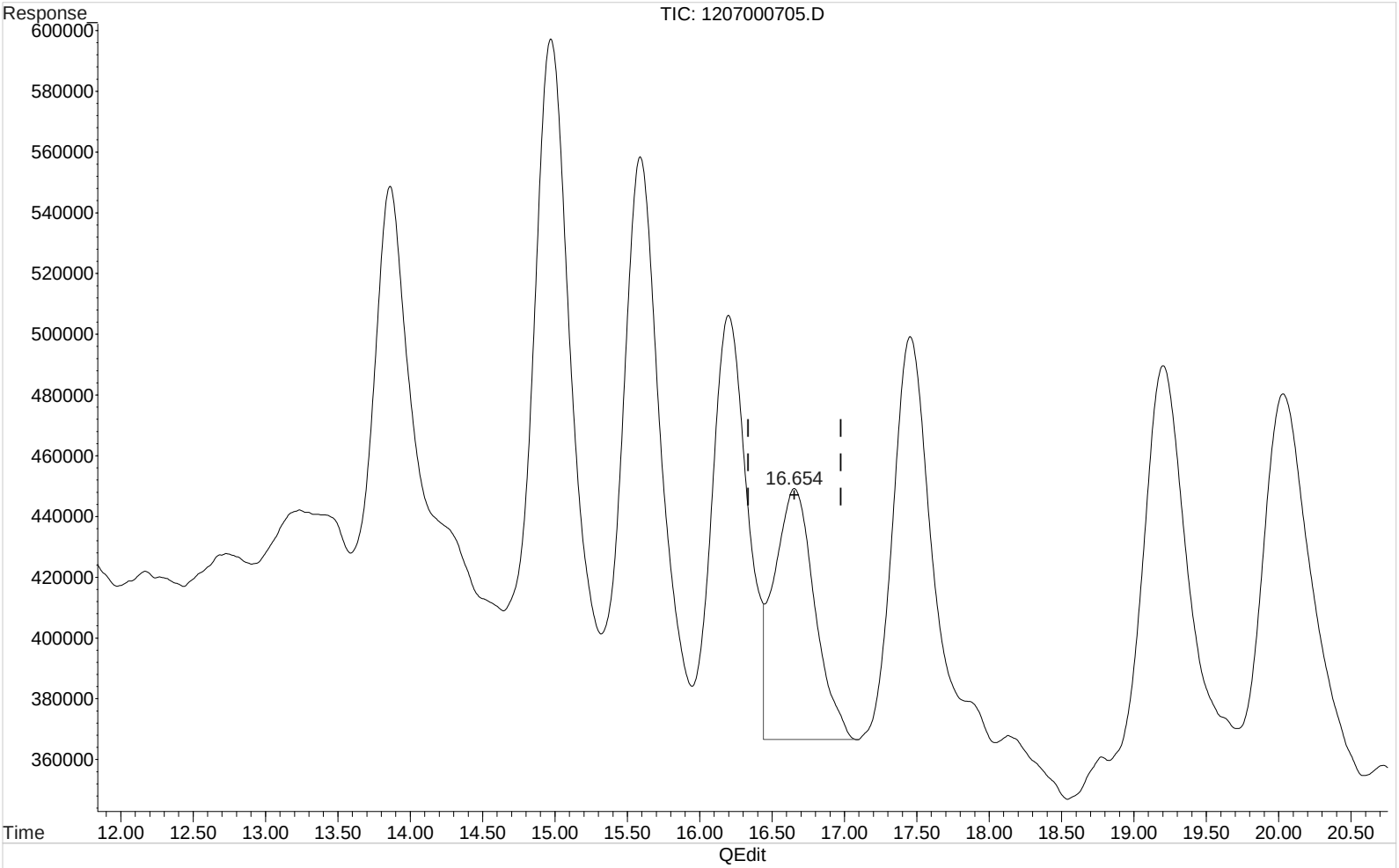


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:26:17 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.654min 0.000 ug/L

response 1614875

Manual Integration:

Before

12/08/16

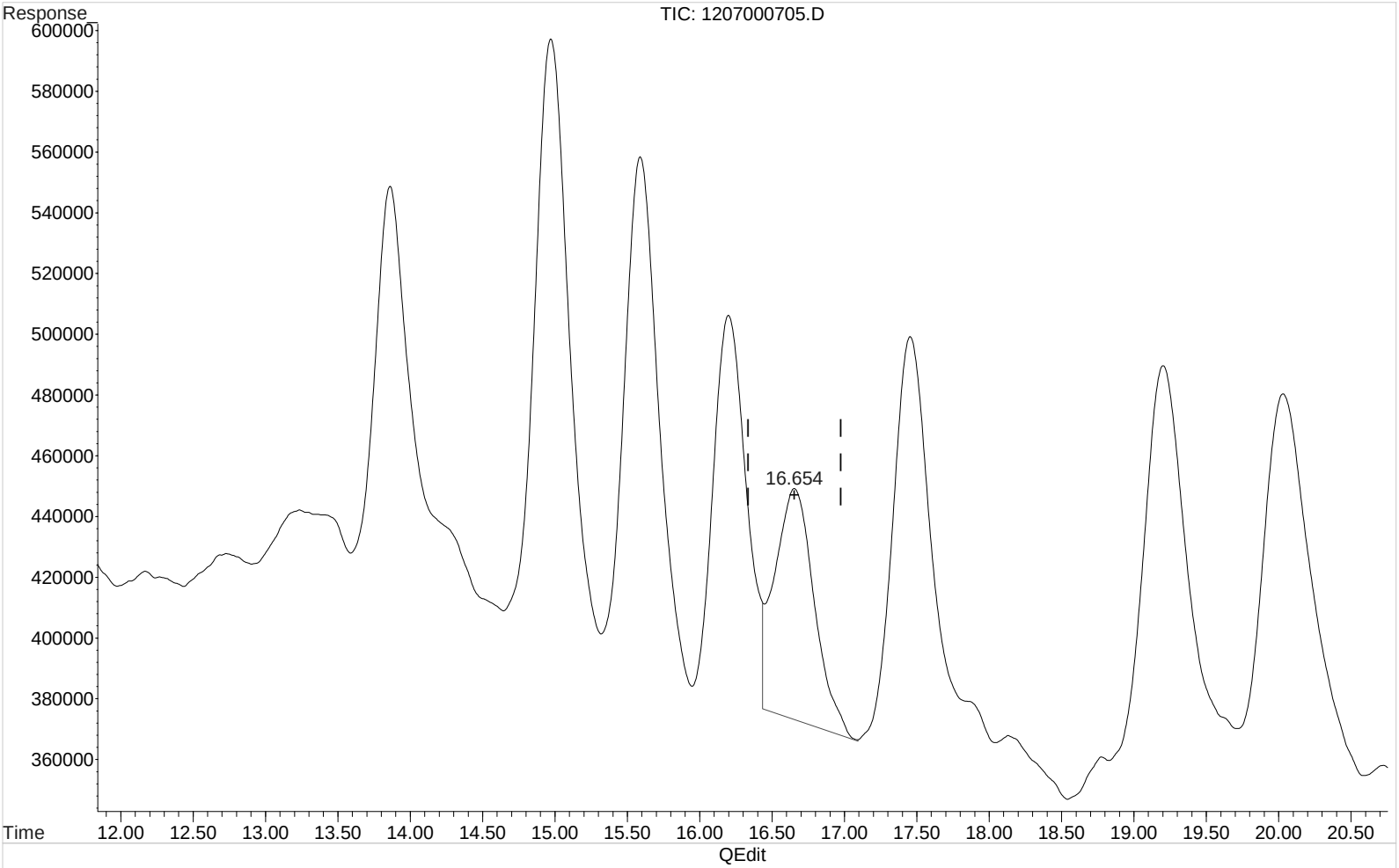
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:26:17 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.654min 0.000 ug/L m

response 1445069

Manual Integration:

After

BLC

12/08/16

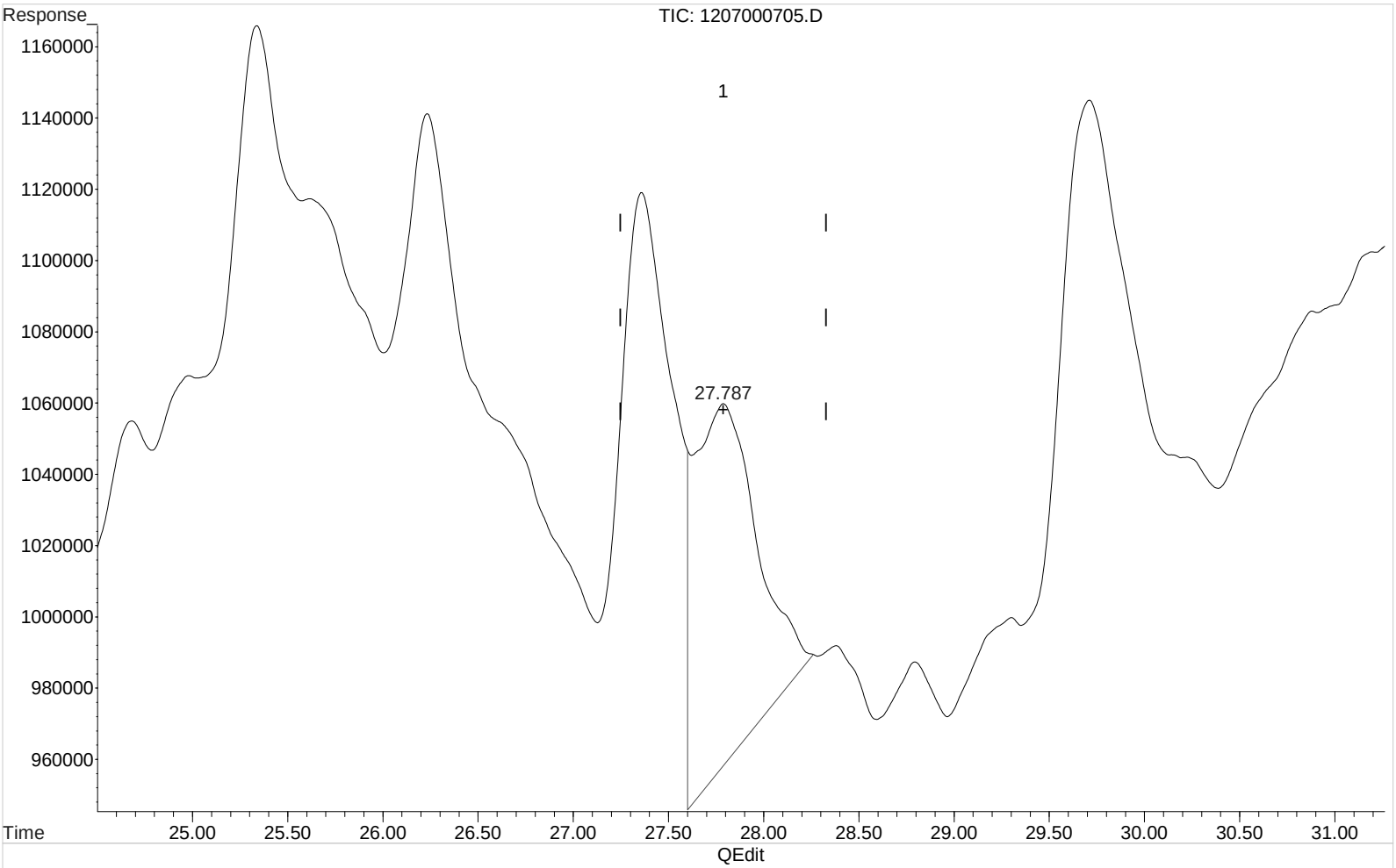
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:26:17 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.787min 0.000 ug/L

response 2332366

Manual Integration:

Before

12/08/16

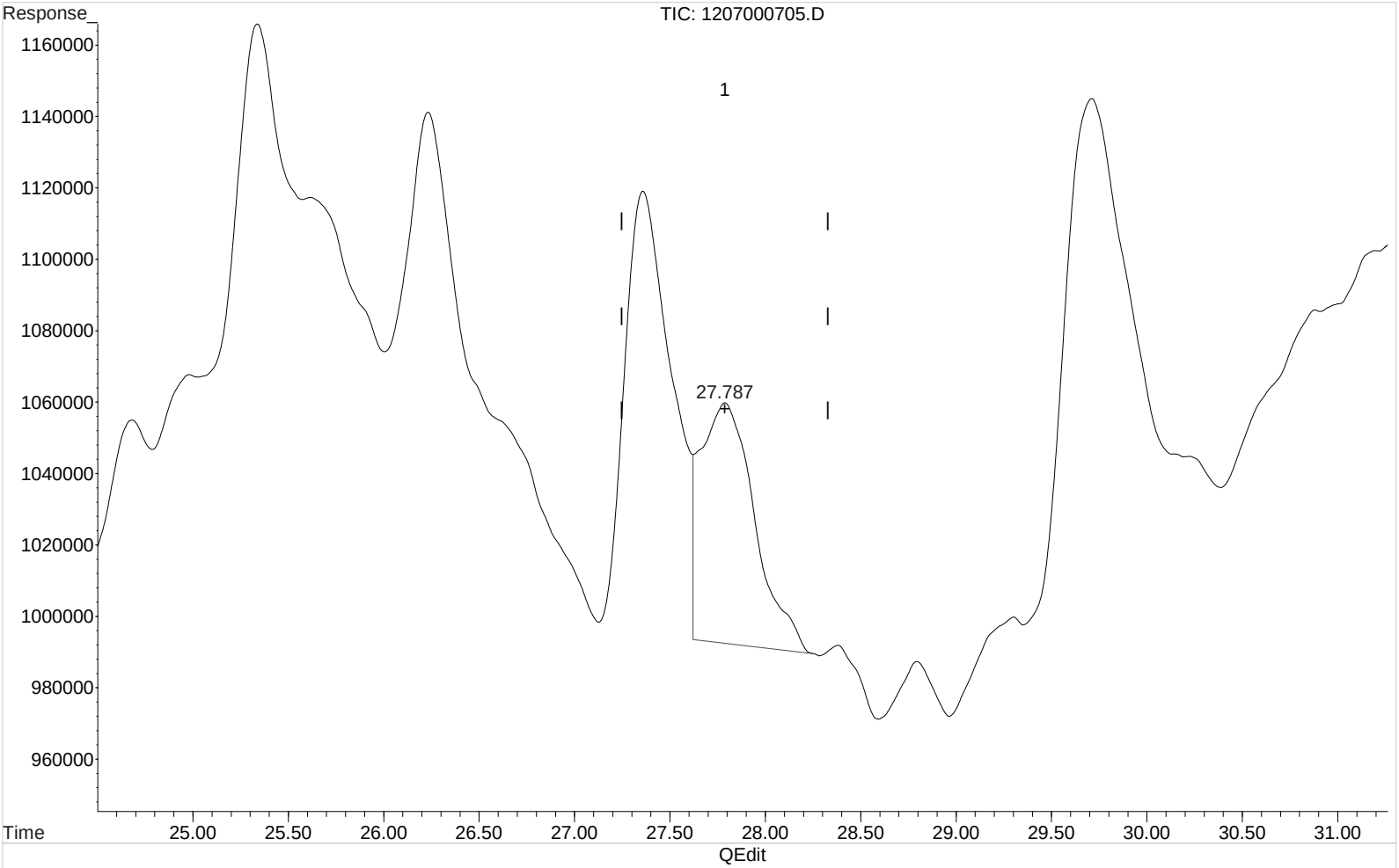
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:26:17 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.787min 0.000 ug/L m

response 1323782

Manual Integration:

After

BLC

12/08/16

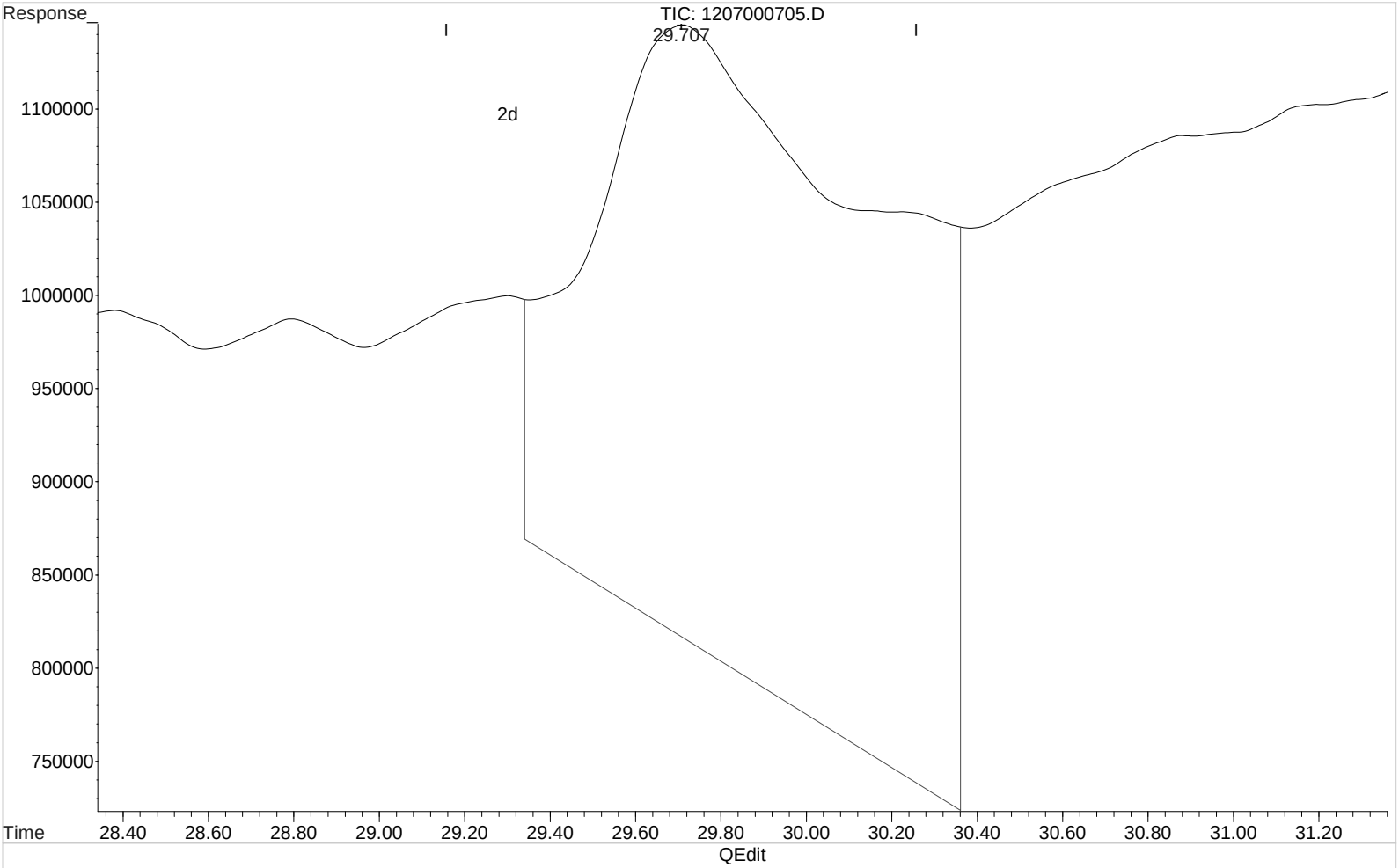
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:26:17 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

29.707min 0.000 ug/L

response 16661309

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

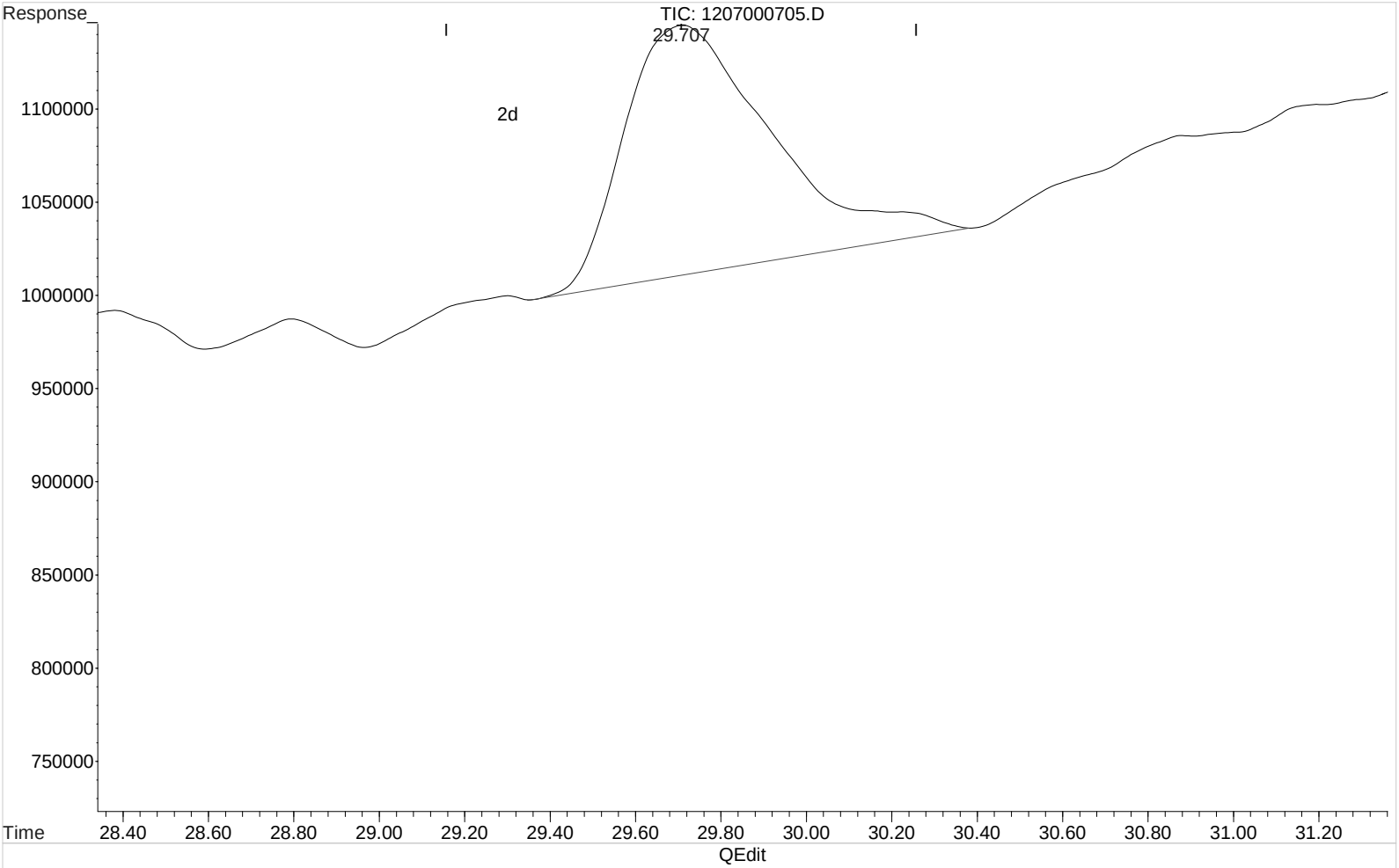
2/08/16

2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:26:17 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.707min 0.000 ug/L m

response 3217434

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:28:57 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	29.681	5676794	88.219 ug/L m
Target Compounds				
1) T	Nitroglycerin	16.655	2024810	70.059 ug/L m
2) T	PETN	27.755	1480479	55.919 ug/L m

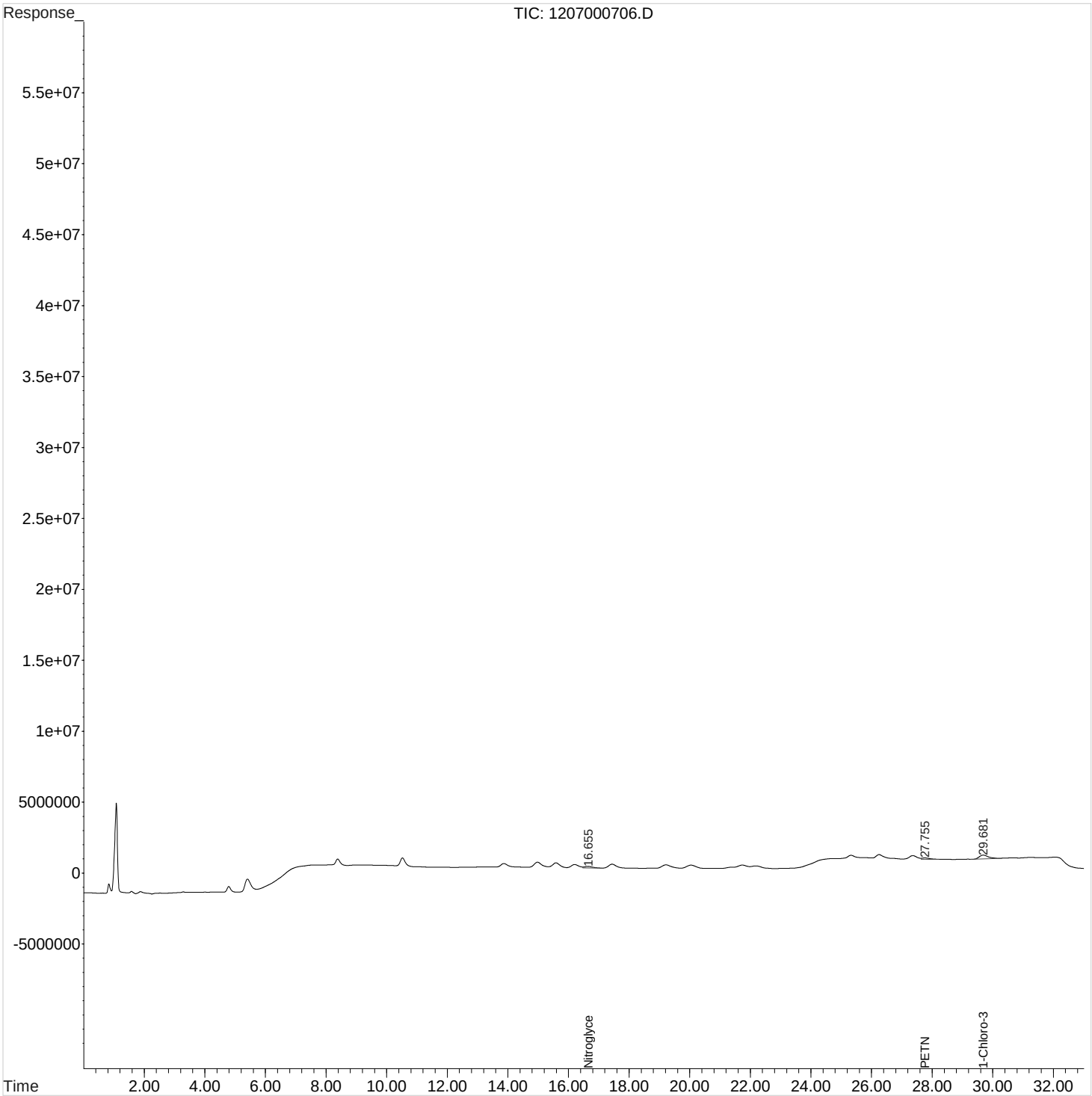
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:28:57 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

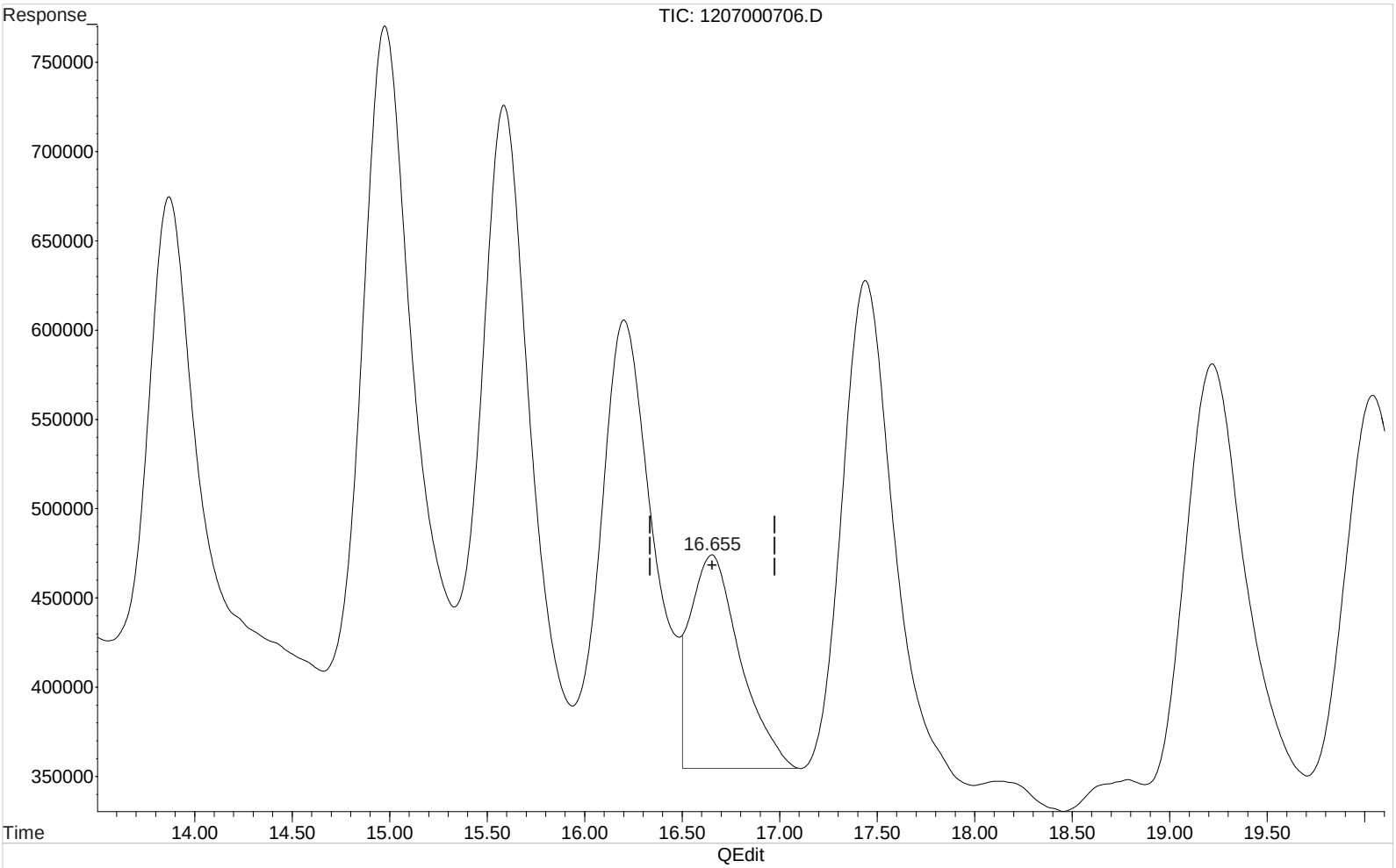


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.655min 73.227 ug/L

response 2116350

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

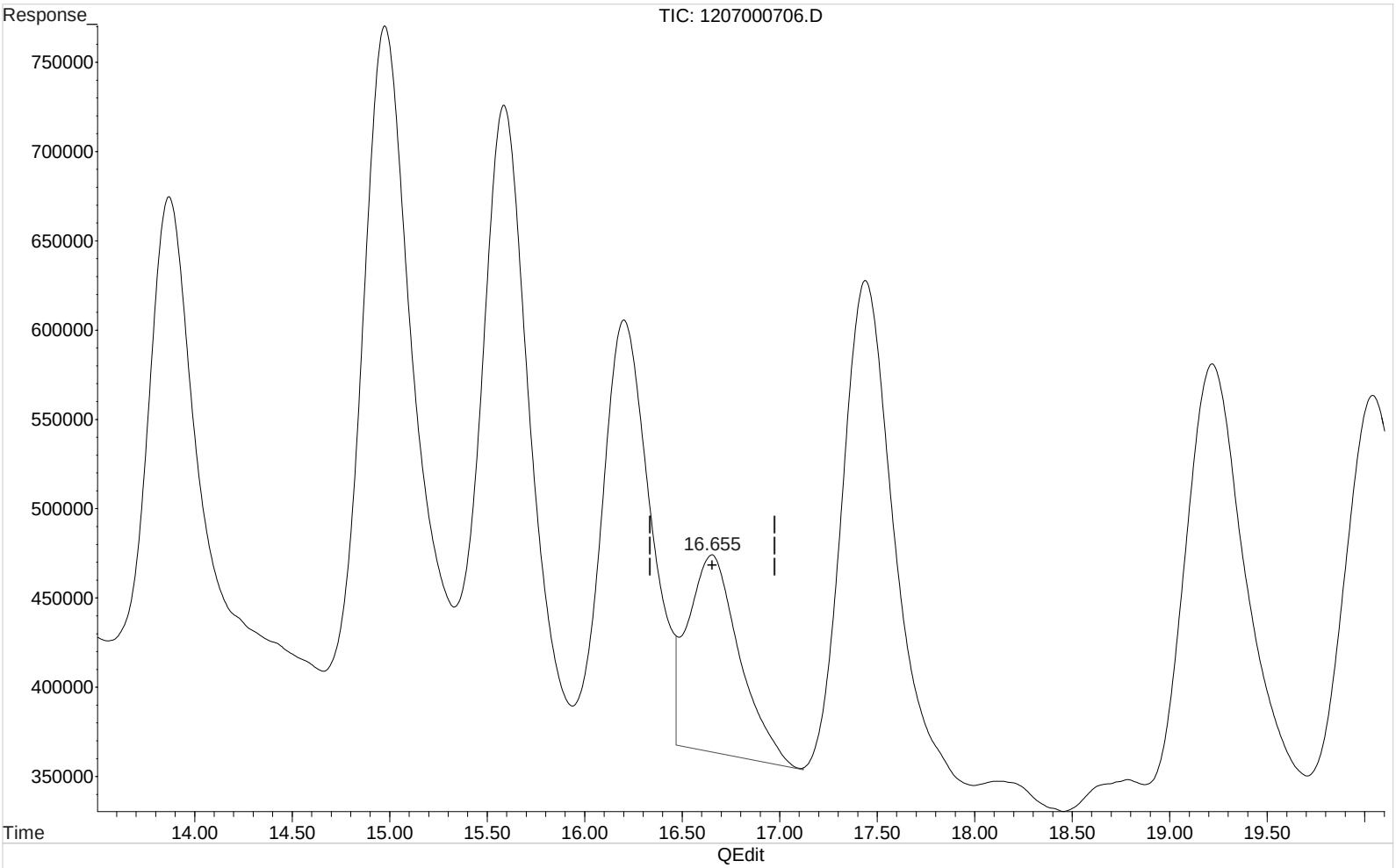
/08/16

/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.655min 70.059 ug/L m

response 2024810

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)

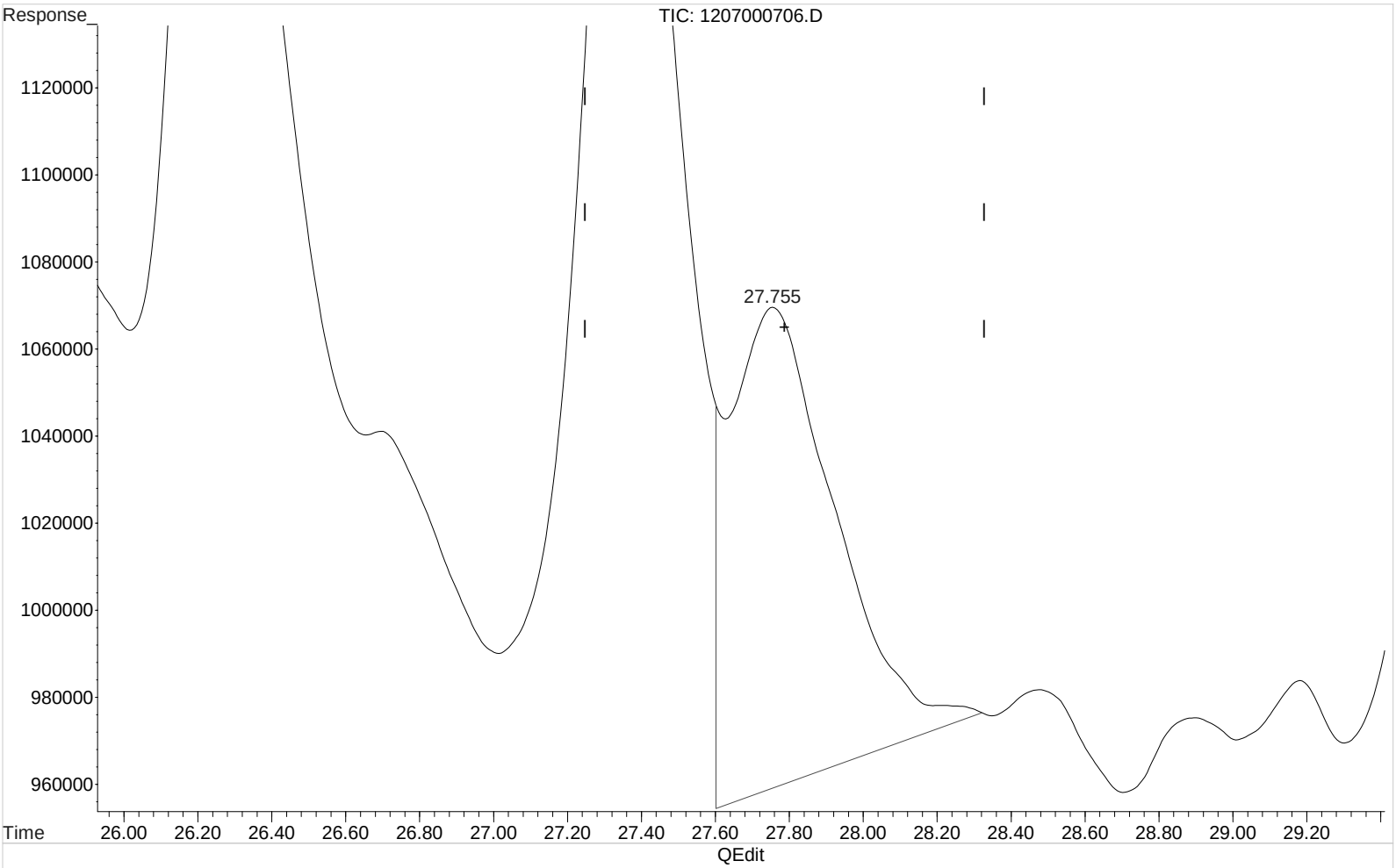
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.755min 83.103 ug/L

response 2200200

Manual Integration:

Before

12/08/16

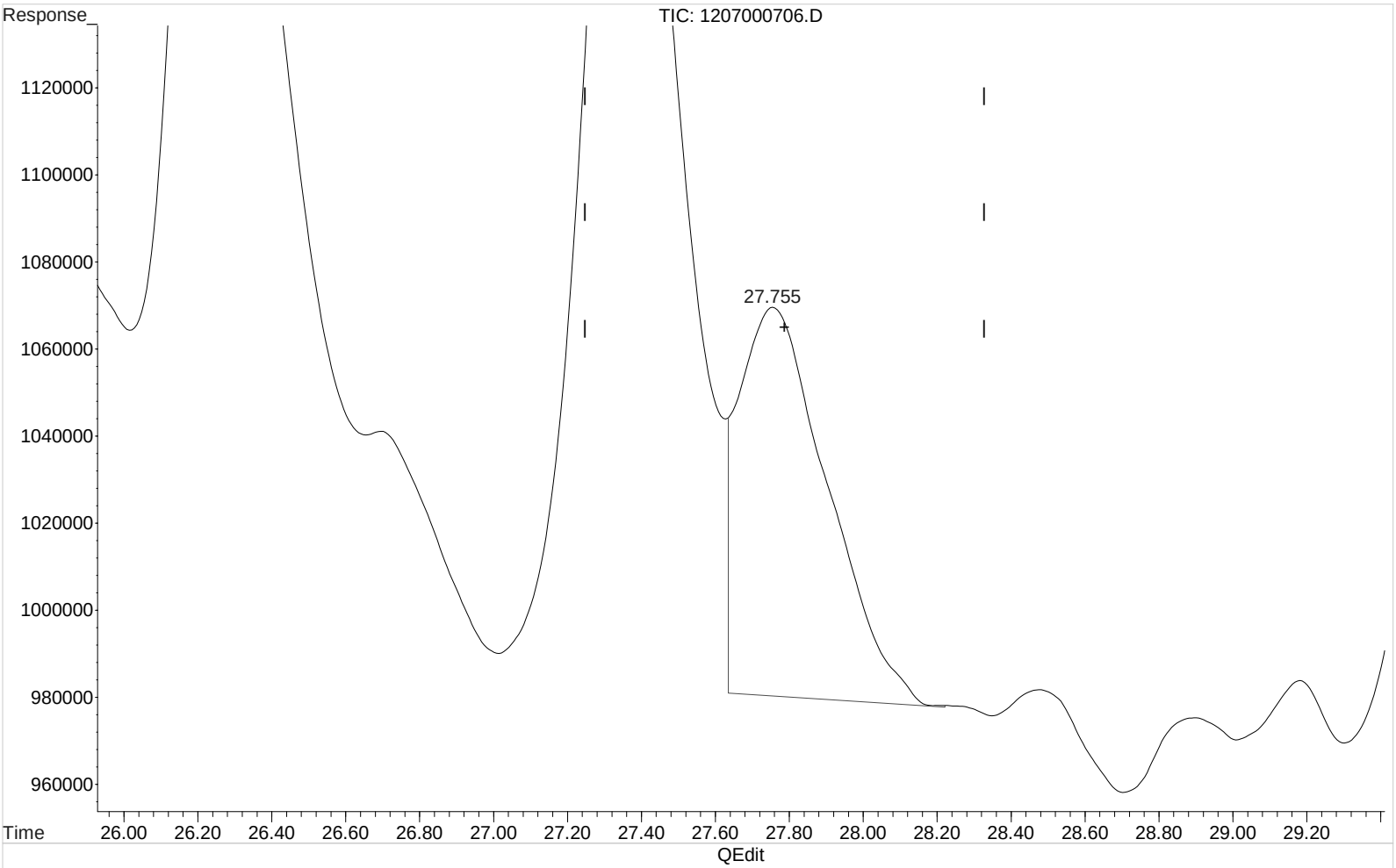
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.755min 55.919 ug/L m

response 1480479

Manual Integration:

After

BLC

12/08/16

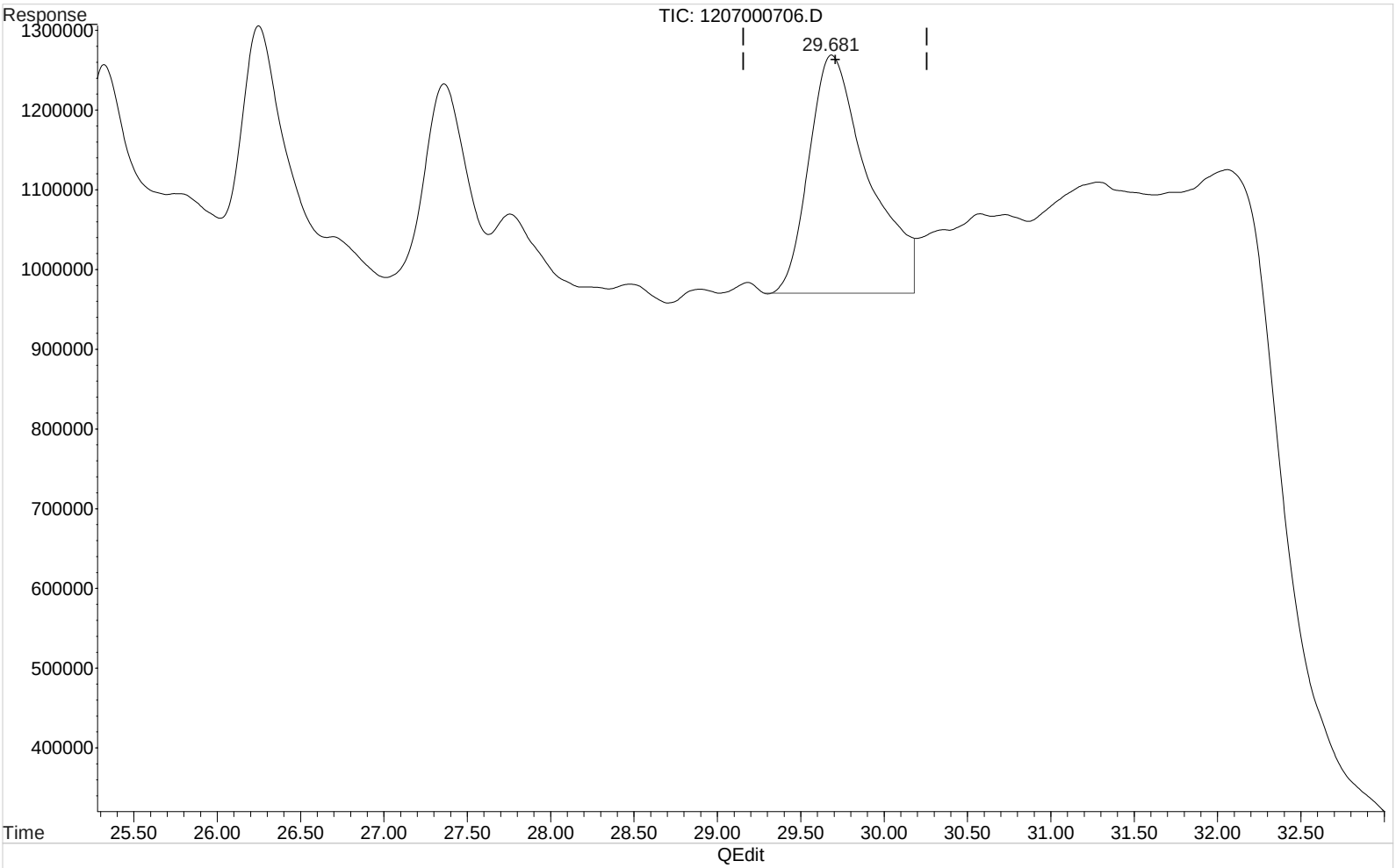
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.681min 115.316 ug/L

response 7420411

Manual Integration:

Before

12/08/16

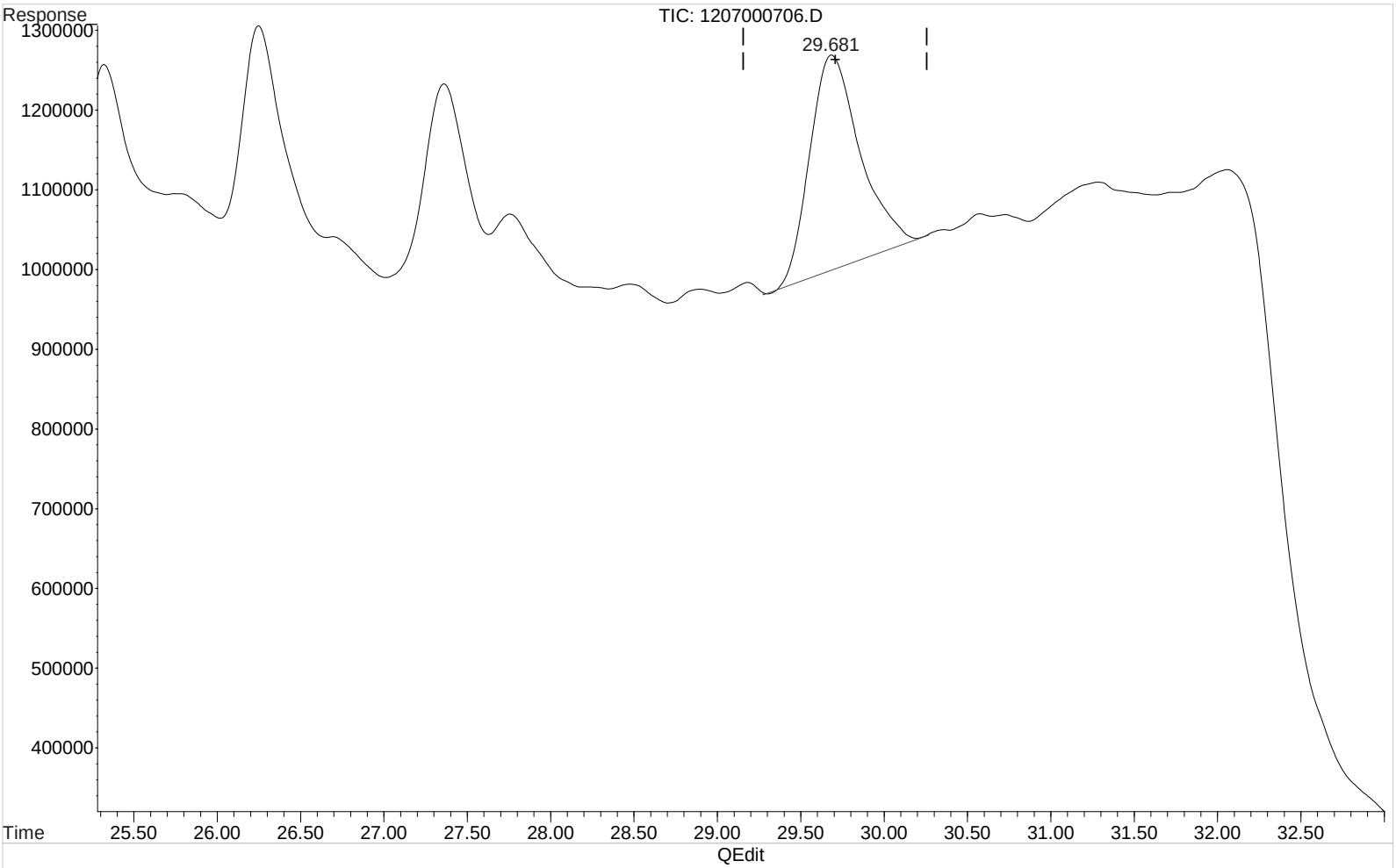
(+) = Expected Retention Time

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

29.681min 88.219 ug/L m

response 5676794

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:07:38 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	29.700	11544733	190.638 ug/L m
Target Compounds				
1) T	Nitroglycerin	16.646	3508399	142.764 ug/L m
2) T	PETN	27.773	3761772	182.254 ug/L m

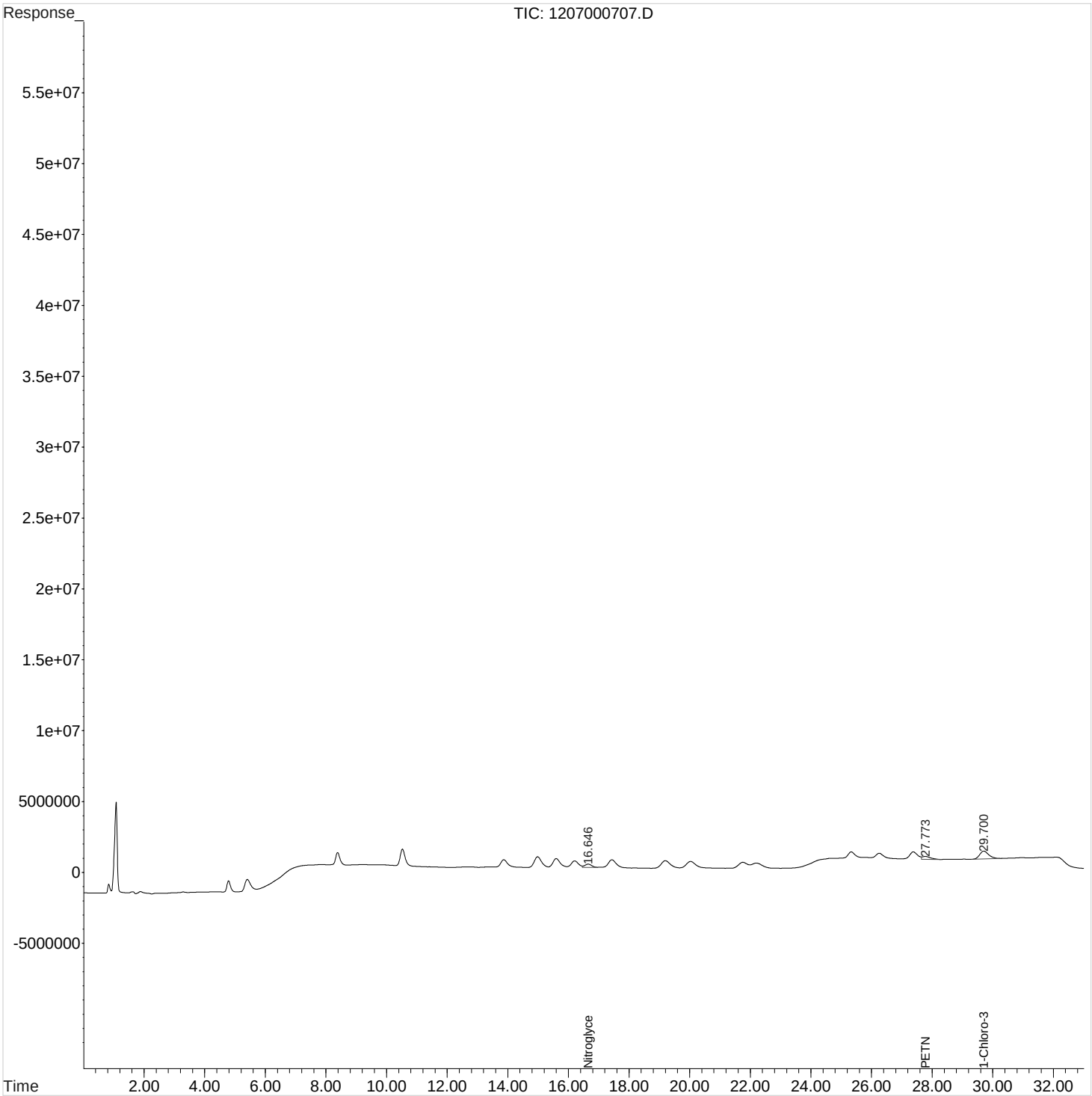
(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)
1st /08/16
2nd /09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:07:38 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

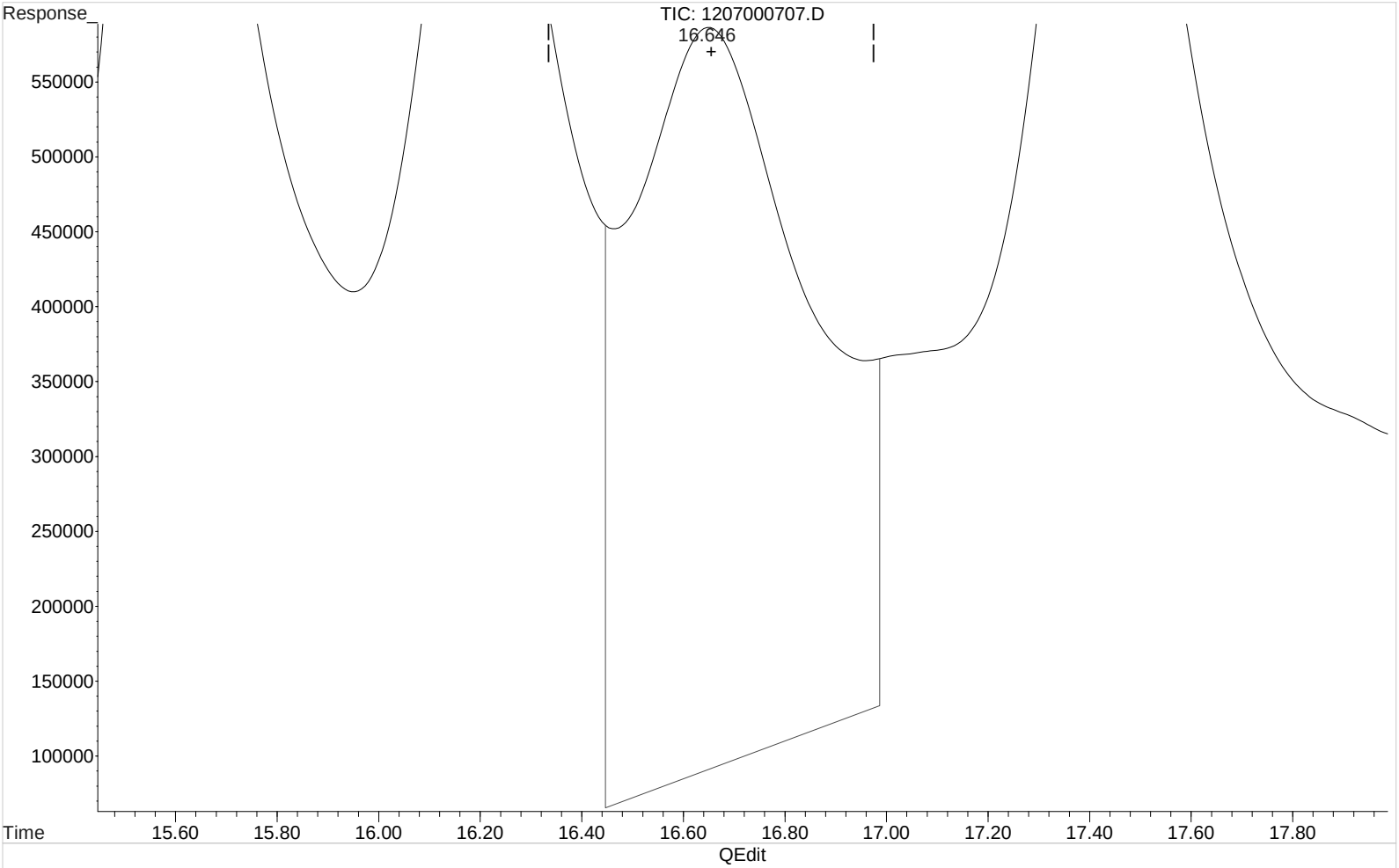


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:29:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.646min 492.695 ug/L

response 12107848

Manual Integration:

Before

12/08/16

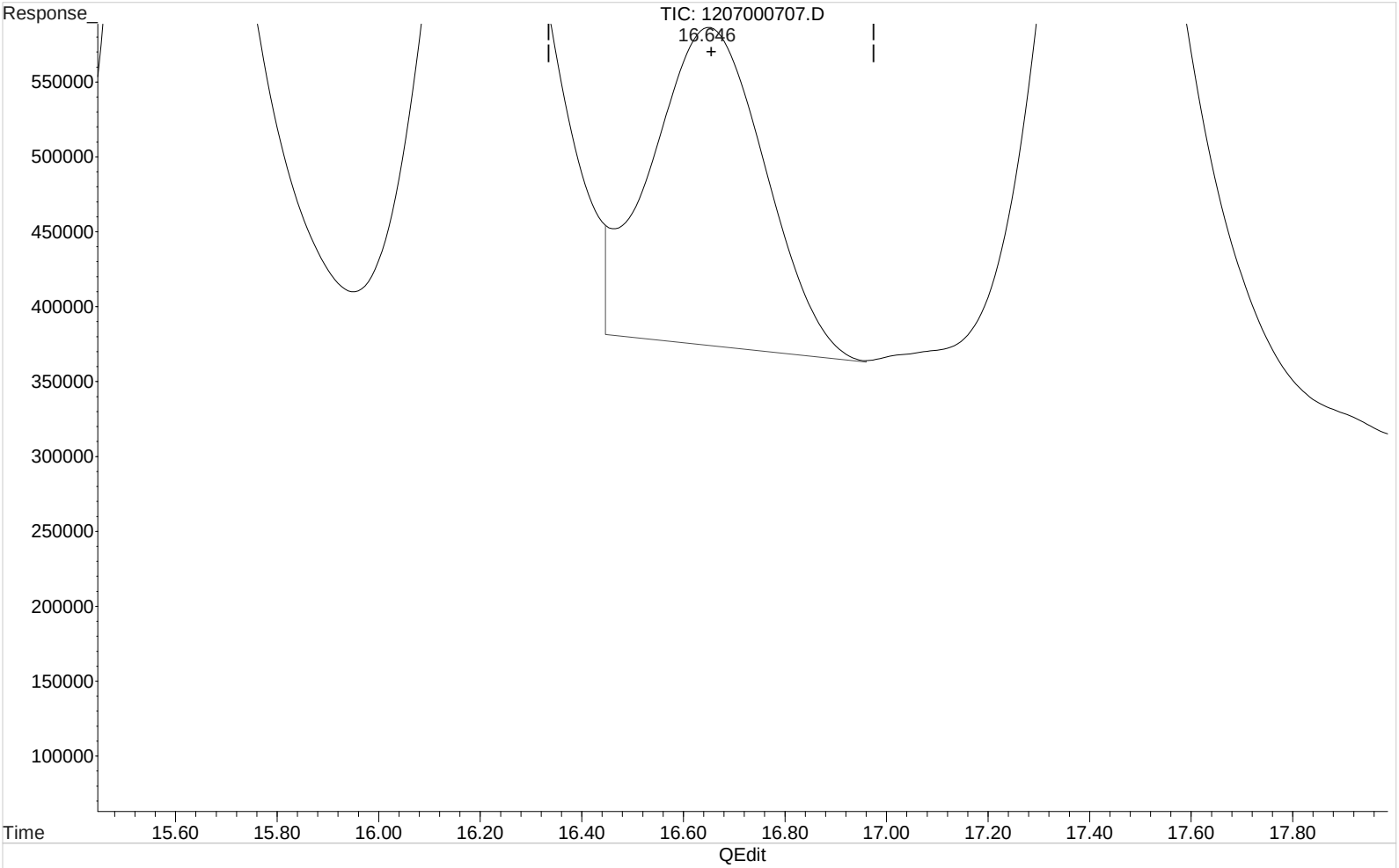
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:29:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.646min 133.721 ug/L m

response 3286165

Manual Integration:

After

BLC

12/08/16

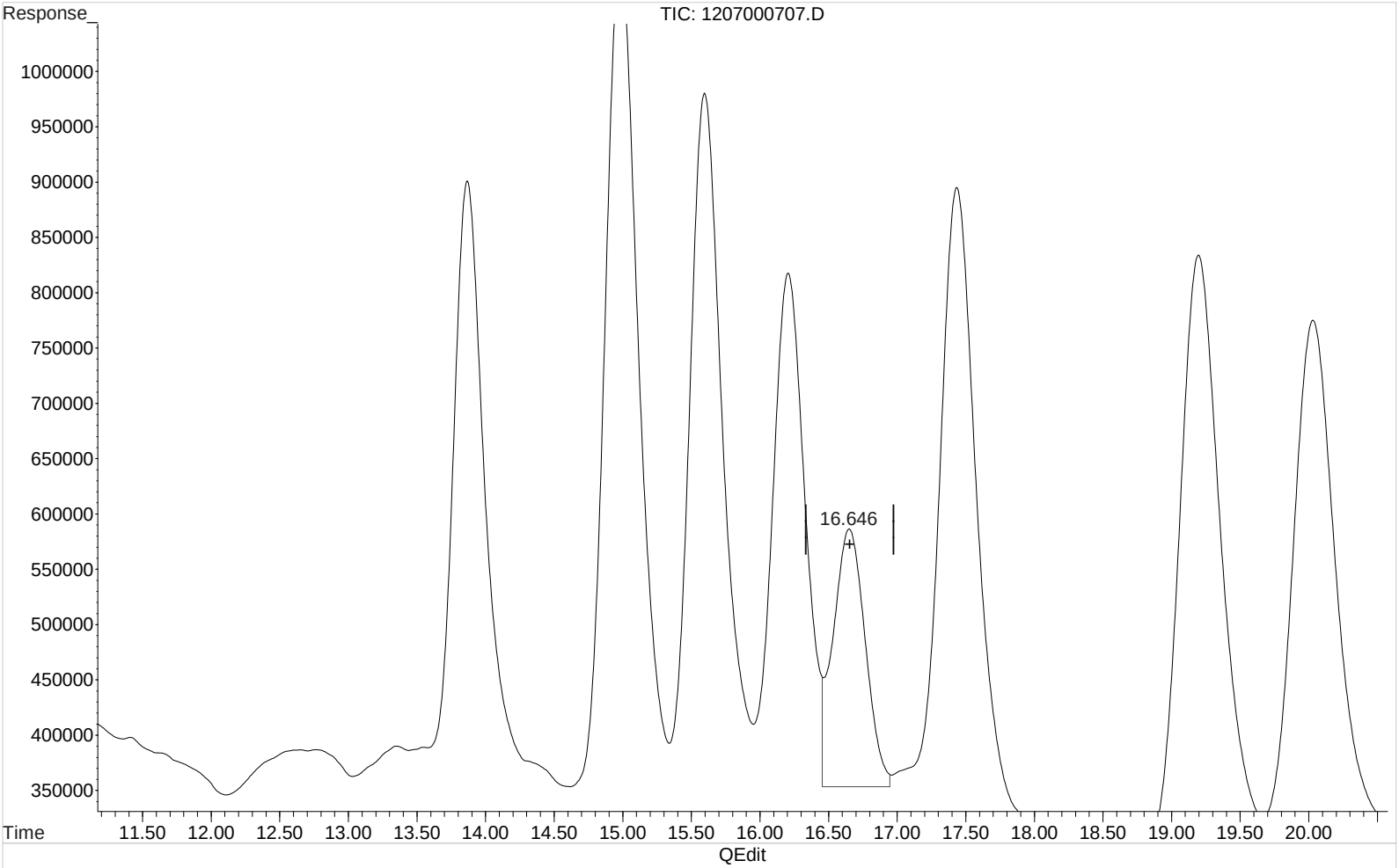
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:30:15 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.646min 155.245 ug/L m

response 3815102

Manual Integration:

After

BLC

12/08/16

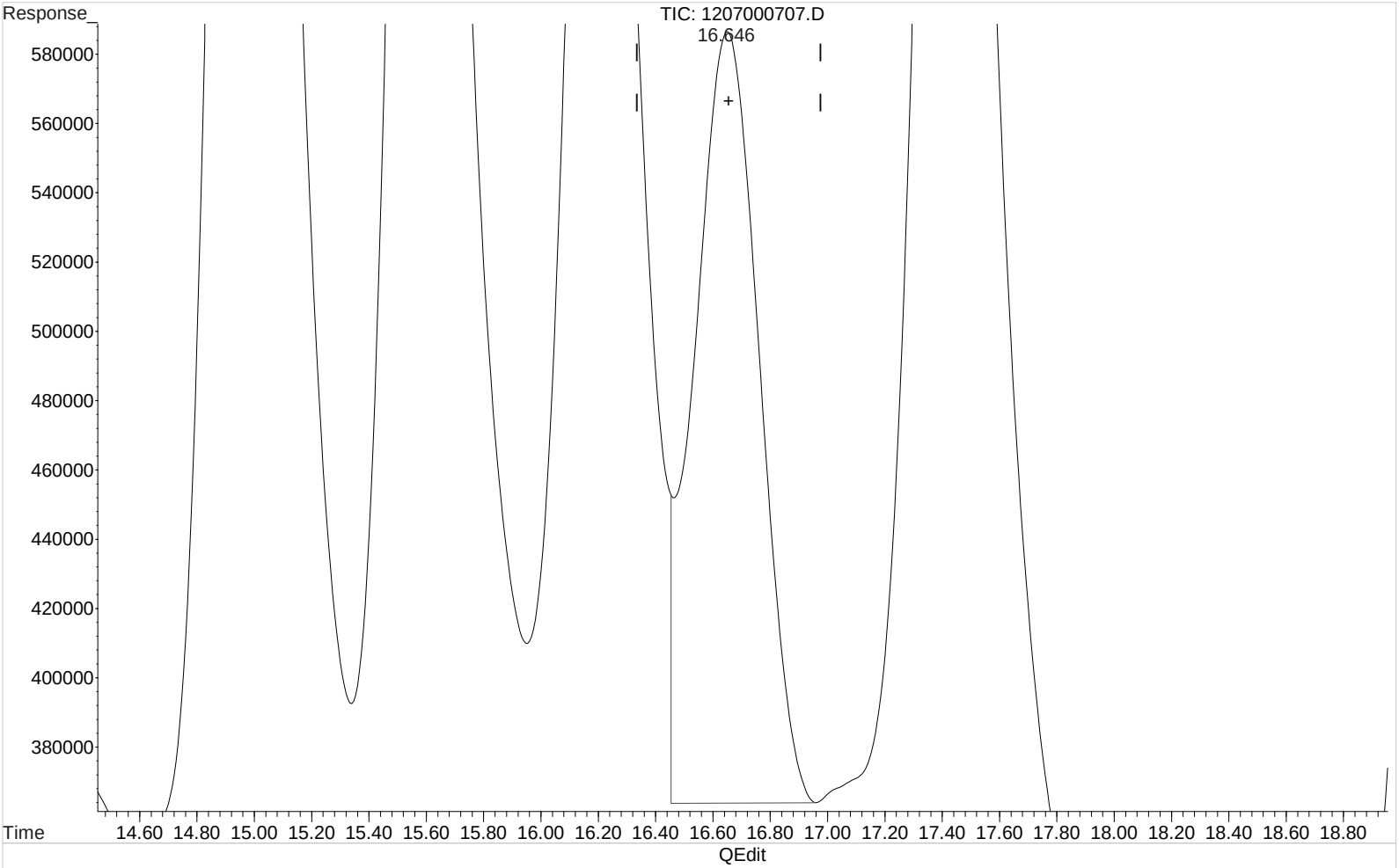
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:40:45 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.646min 142.764 ug/L m

response 3508399

Manual Integration:

After

Baseline/Shoulder

12/08/16

(+) = Expected Retention Time

(b) (6)

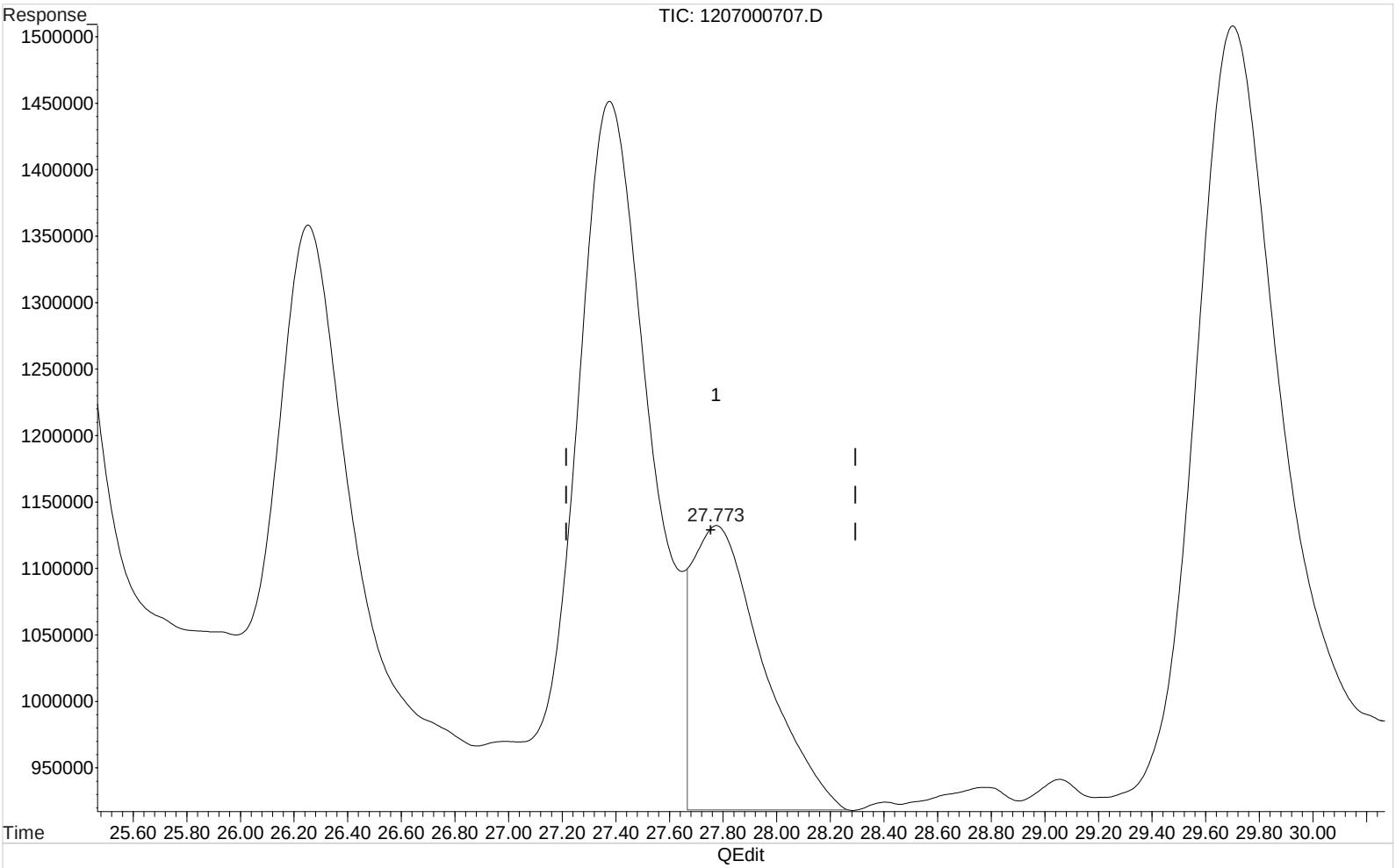
2/08/16

2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:29:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.773min 187.377 ug/L

response 3867500

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

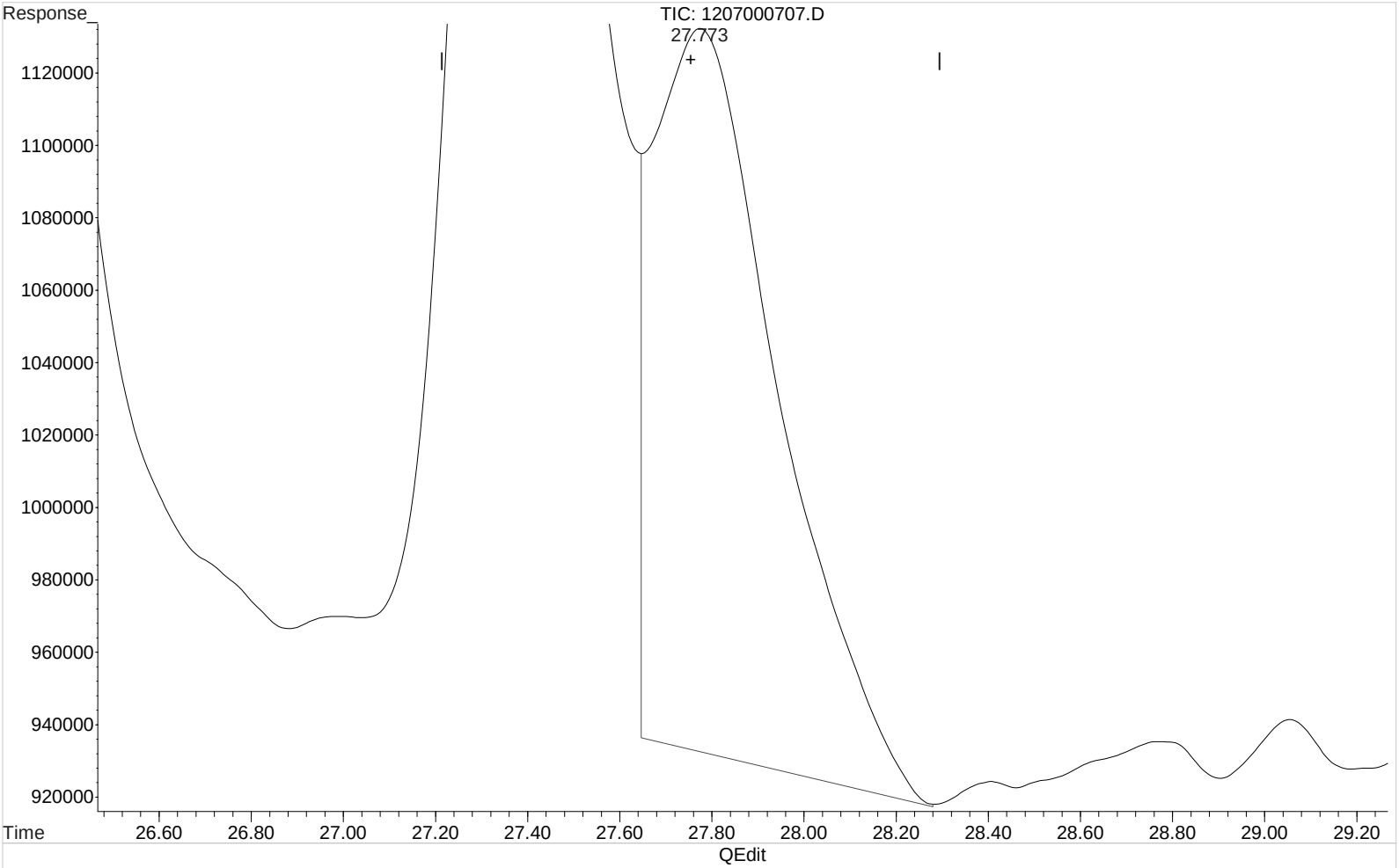
Quantitation Report (Qedit)

(b) (6)
1st [redacted] /08/16
2n [redacted] /09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:40:45 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.773min 182.254 ug/L m

response 3761772

Manual Integration:

After

Baseline/Shoulder

12/08/16

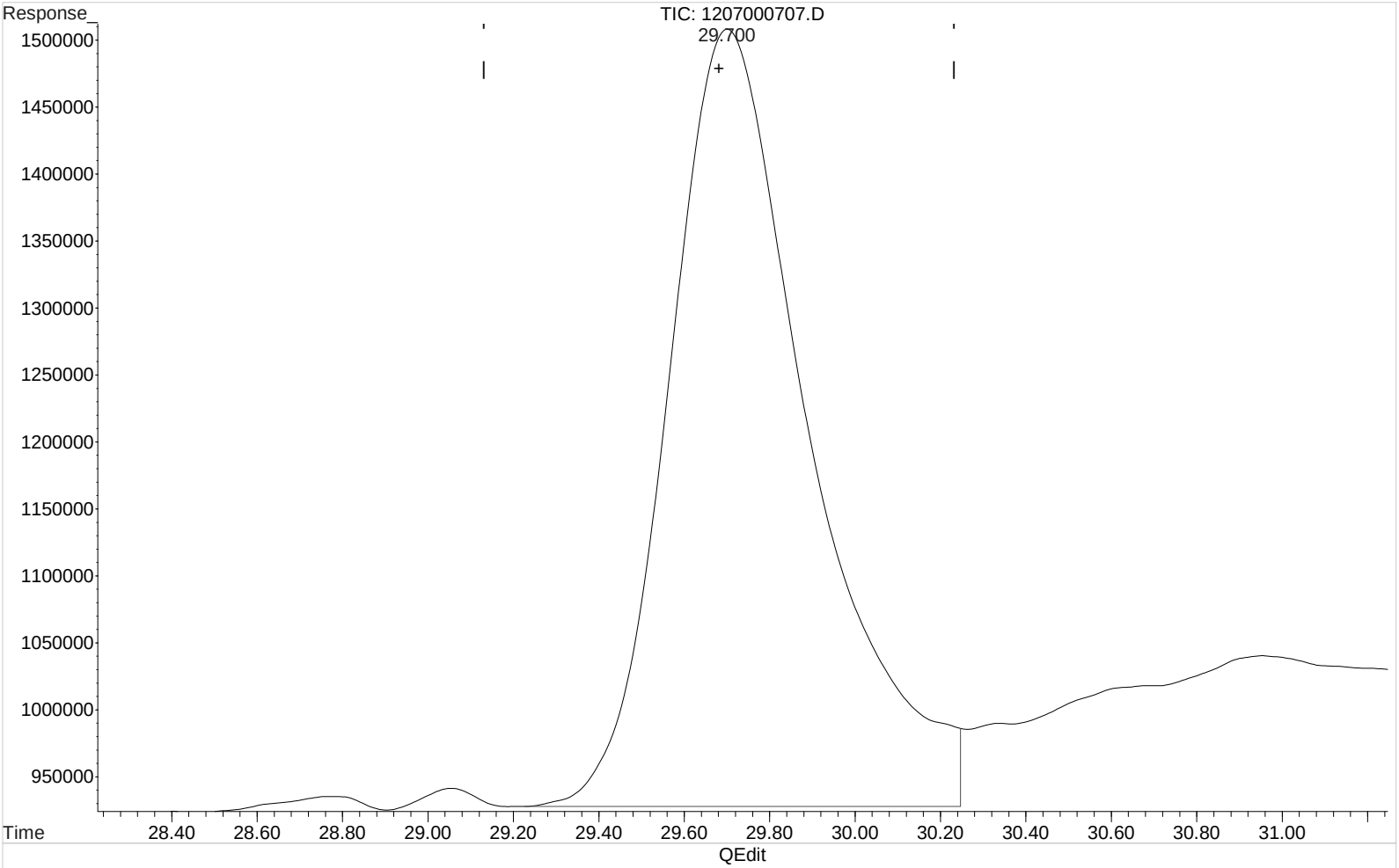
(+) = Expected Retention Time

1st (b) (6) 08/16
2nd 09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:29:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.700min 218.688 ug/L

response 13243379

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

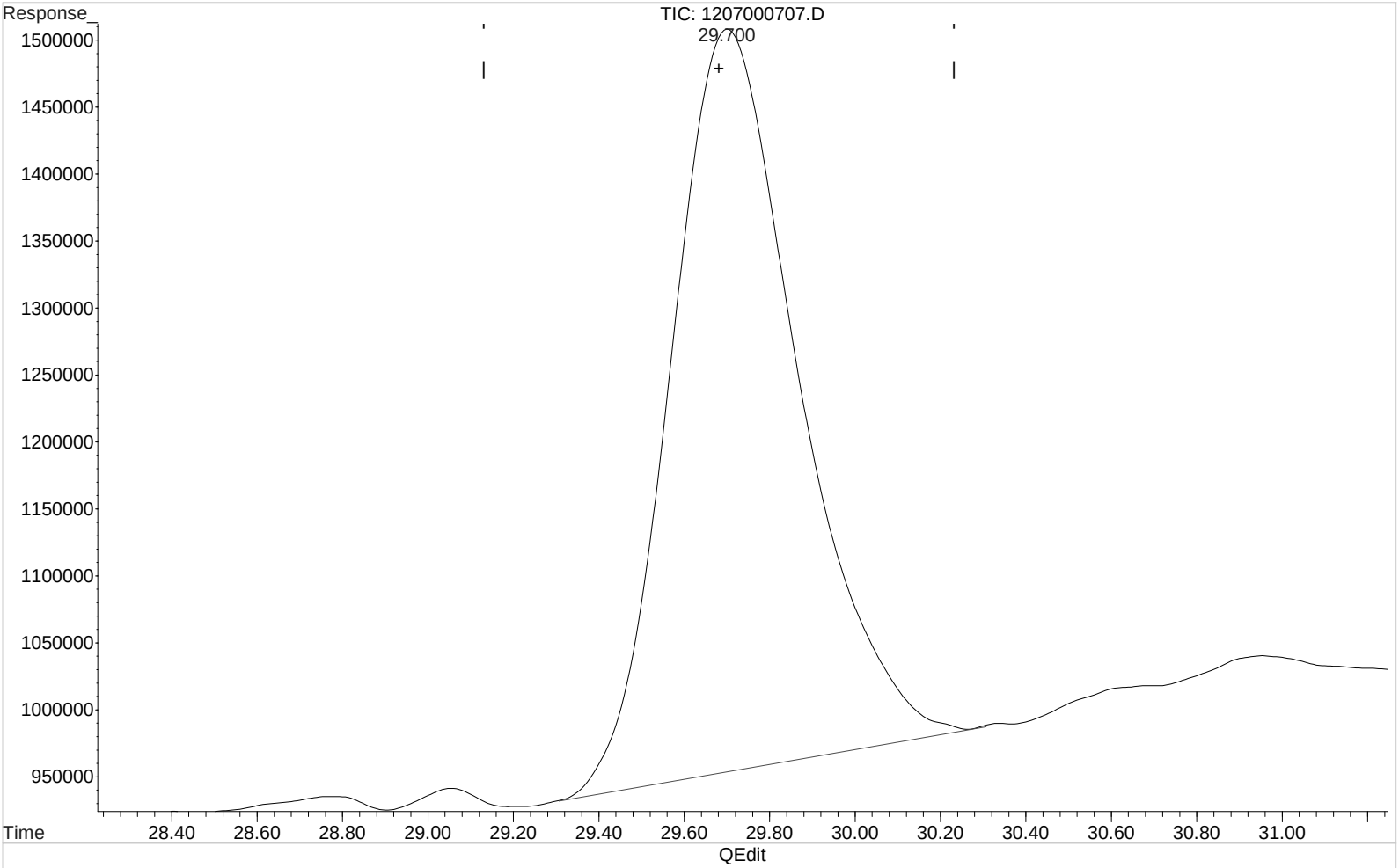
Quantitation Report (Qedit)

1st (b) (6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:29:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.700min 190.638 ug/L m

response 11544733

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000708.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:08:18 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:30:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	29.705	28560027	479.087 ug/L m
Target Compounds				
1) T	Nitroglycerin	16.639	11239759	514.168 ug/L
2) T	PETN	27.792	8986852	439.492 ug/L m

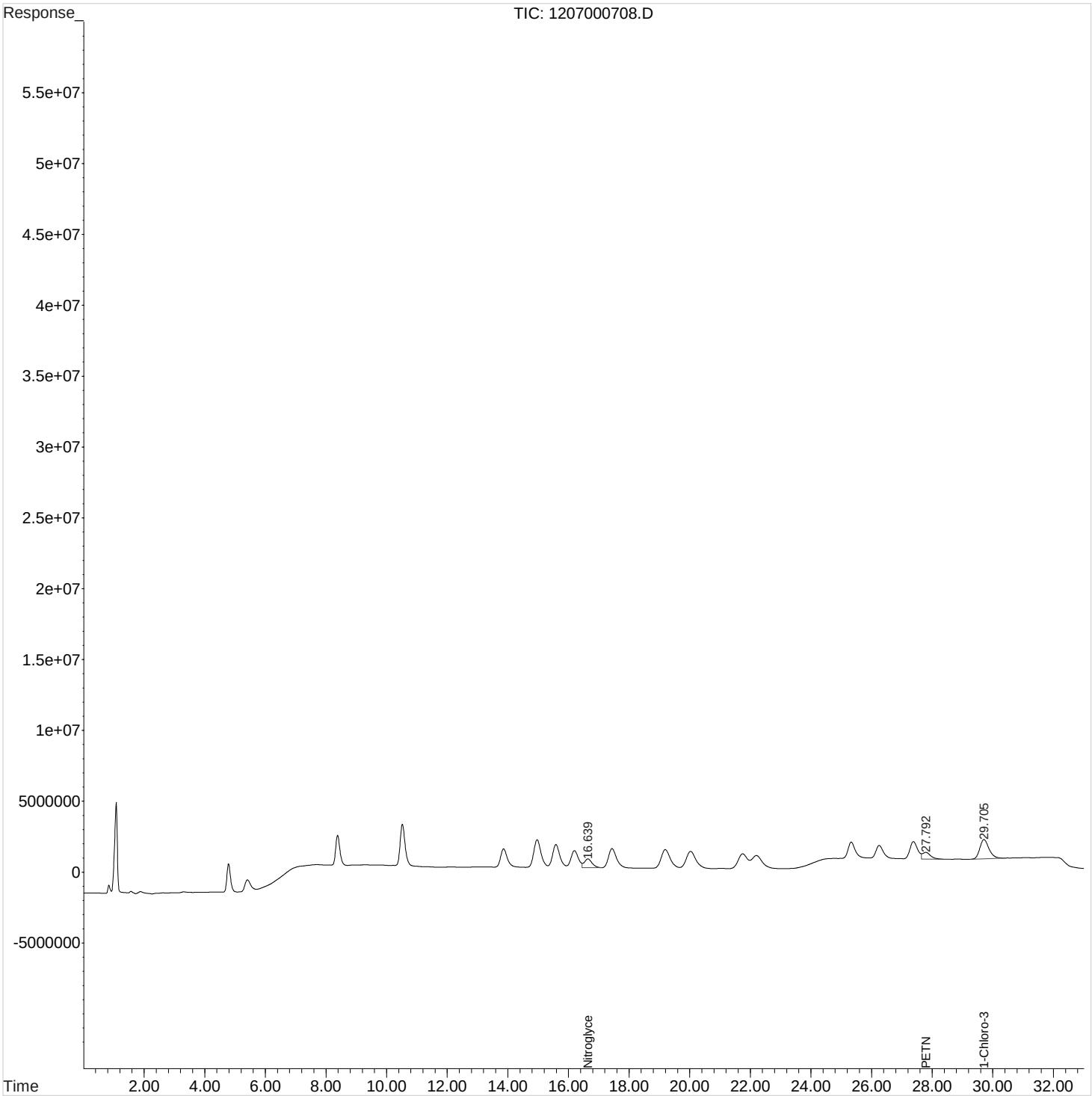
(f)=RT Delta > 1/2 Window (m)=manual int.

1st (b) (6) 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000708.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:08:18 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:30:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

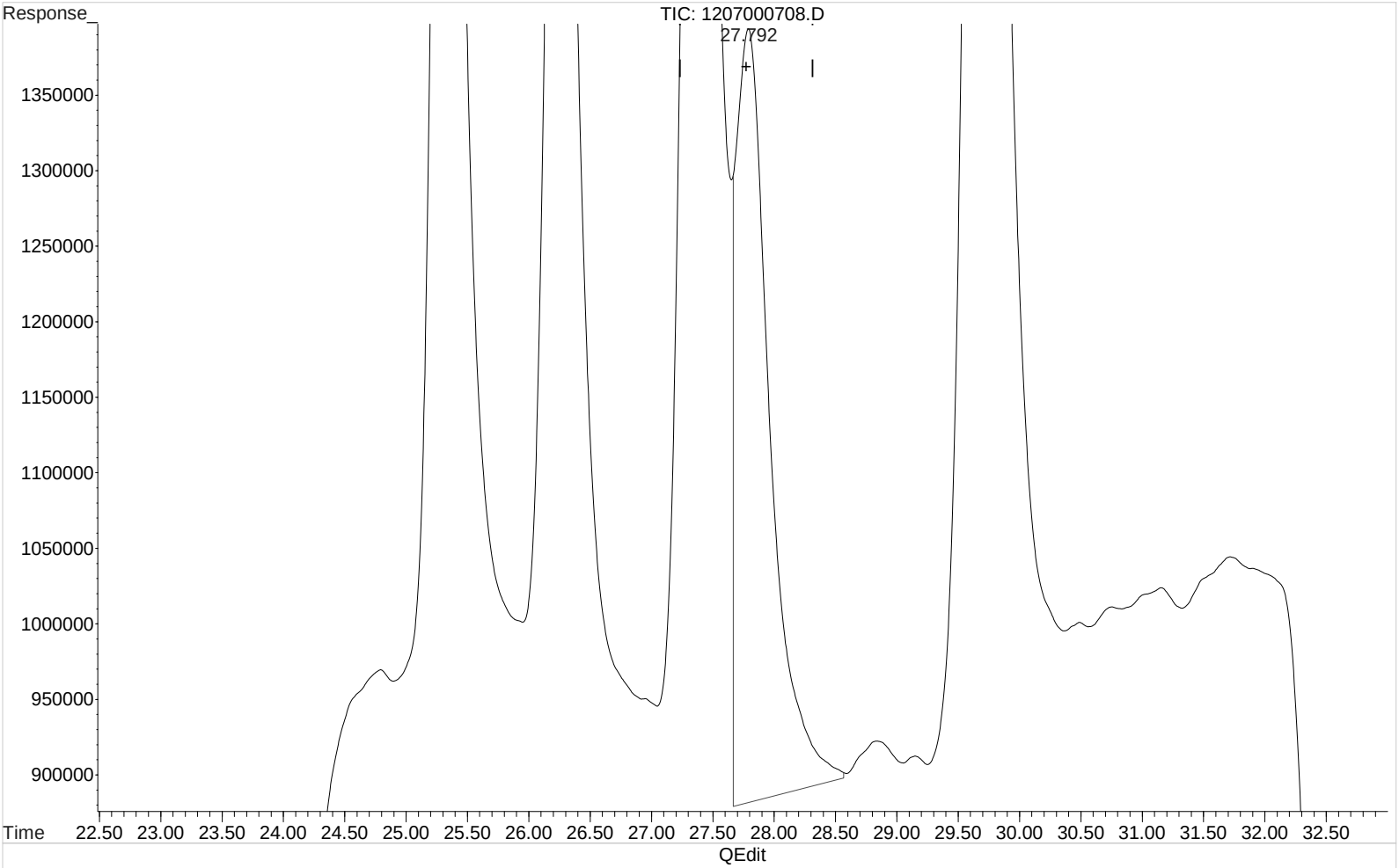


(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000708.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:30:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:30:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.792min 480.822 ug/L

response 9831980

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

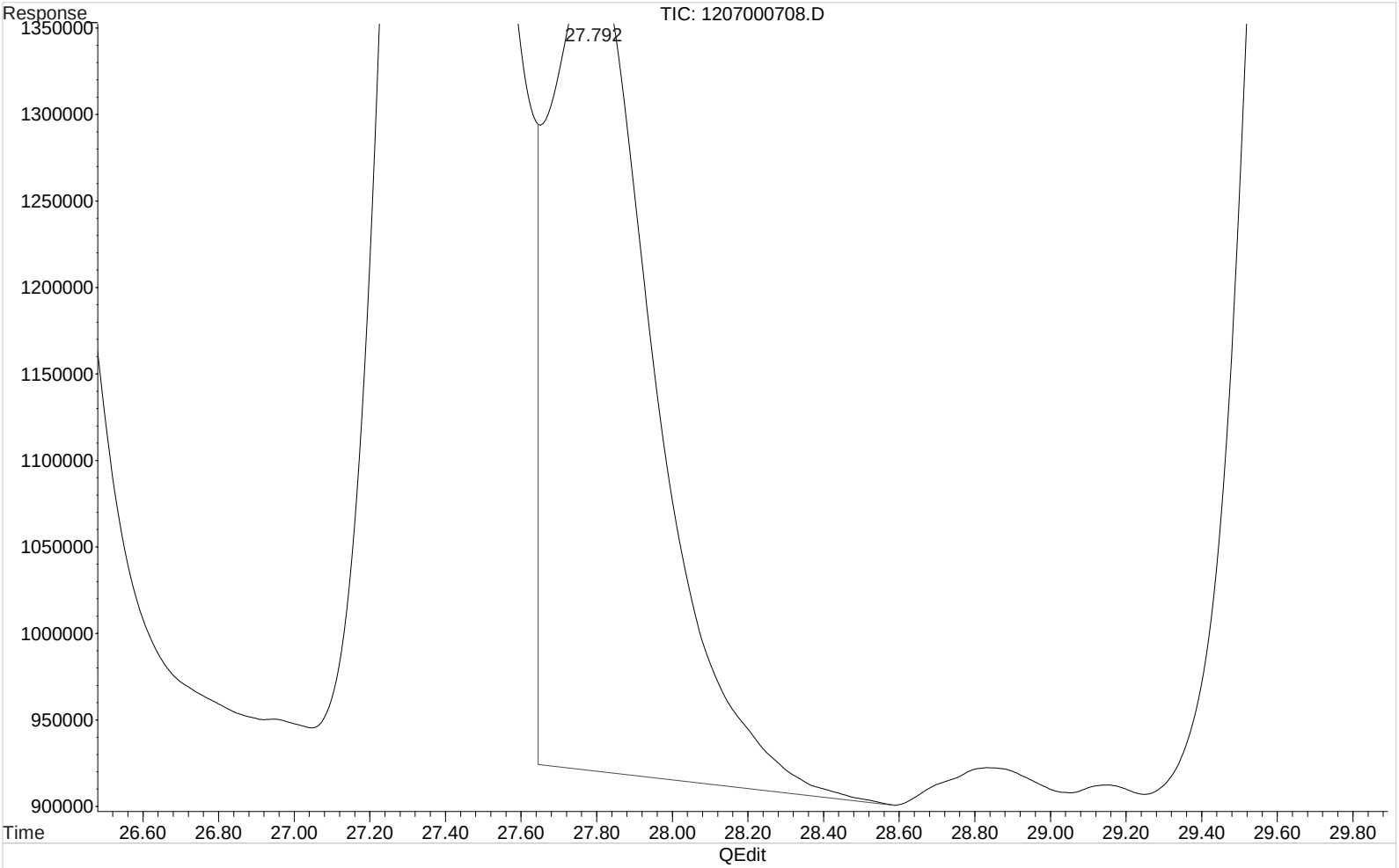
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000708.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:31:41 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:30:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.792min 439.492 ug/L m

response 8986852

Manual Integration:

After

Baseline/Shoulder

12/08/16

(+) = Expected Retention Time

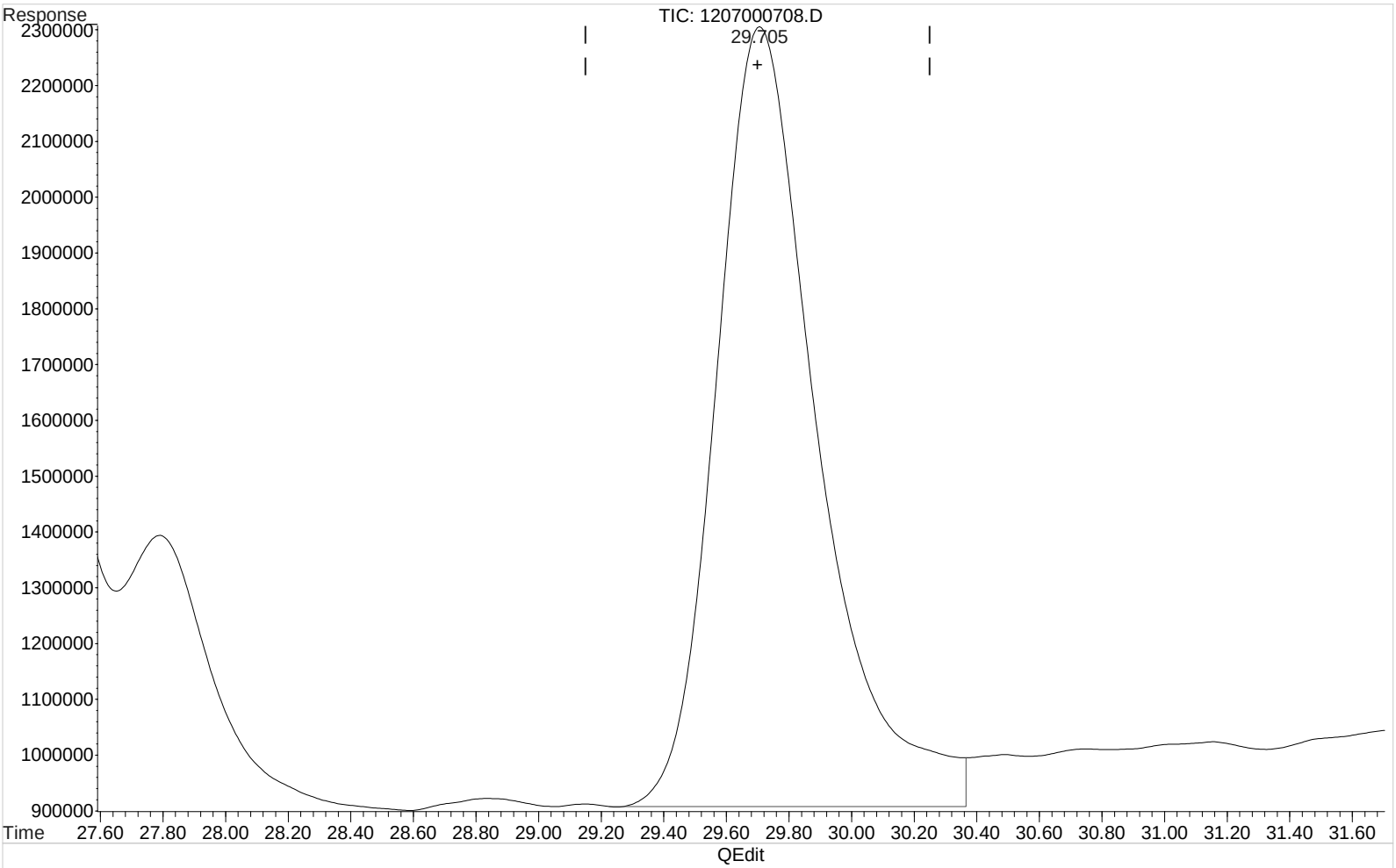
Quantitation Report (Qedit)

1st (b)(6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000708.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:30:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:30:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.705min 527.464 ug/L

response 31443916

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b)(6)

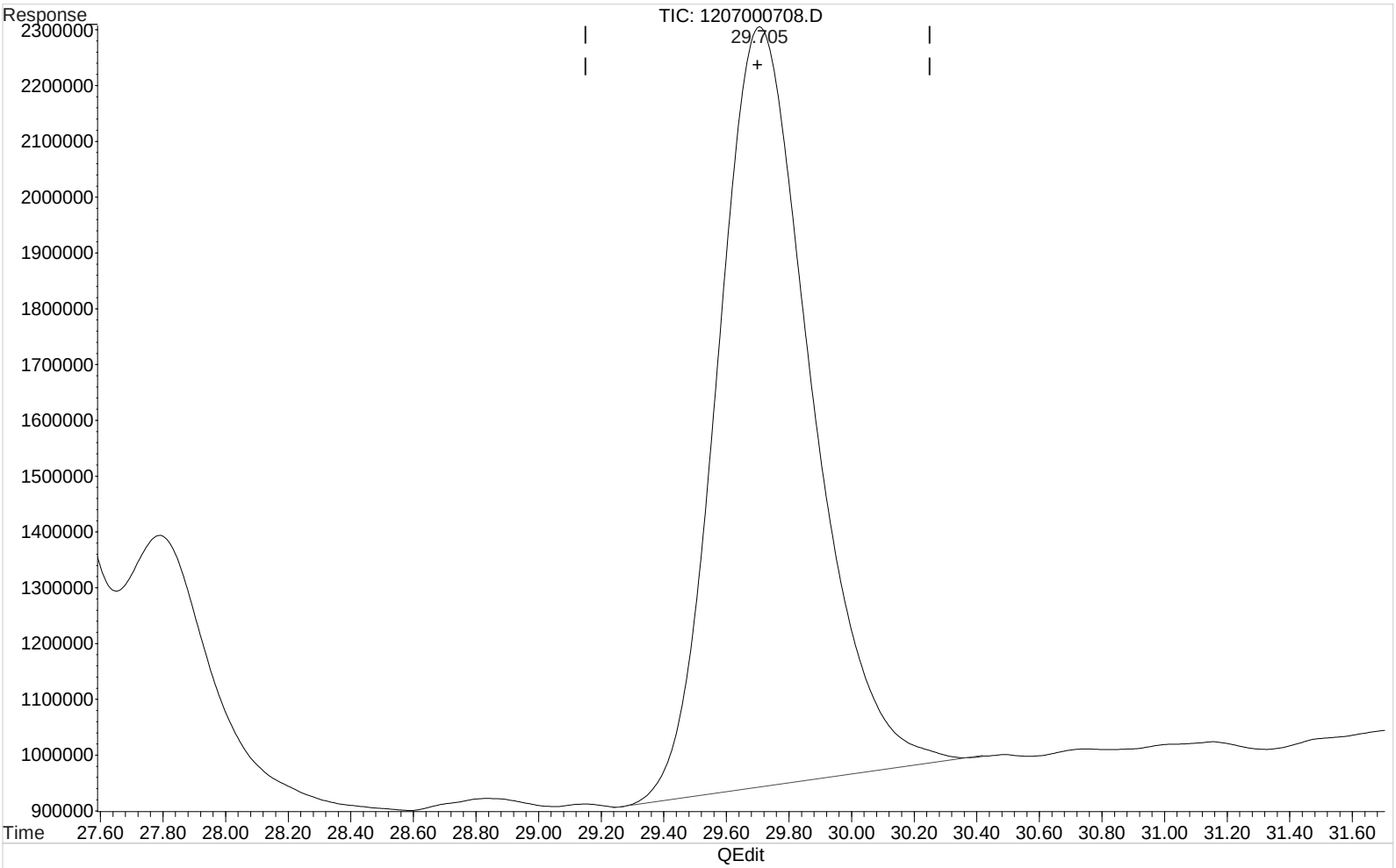
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000708.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:30:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:30:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.705min 479.087 ug/L m

response 28560027

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:33:37 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	29.704	55010487	932.538 ug/L m
Target Compounds				
1) T	Nitroglycerin	16.630	21521854	977.602 ug/L m
2) T	PETN	27.784	18036372	902.302 ug/L m

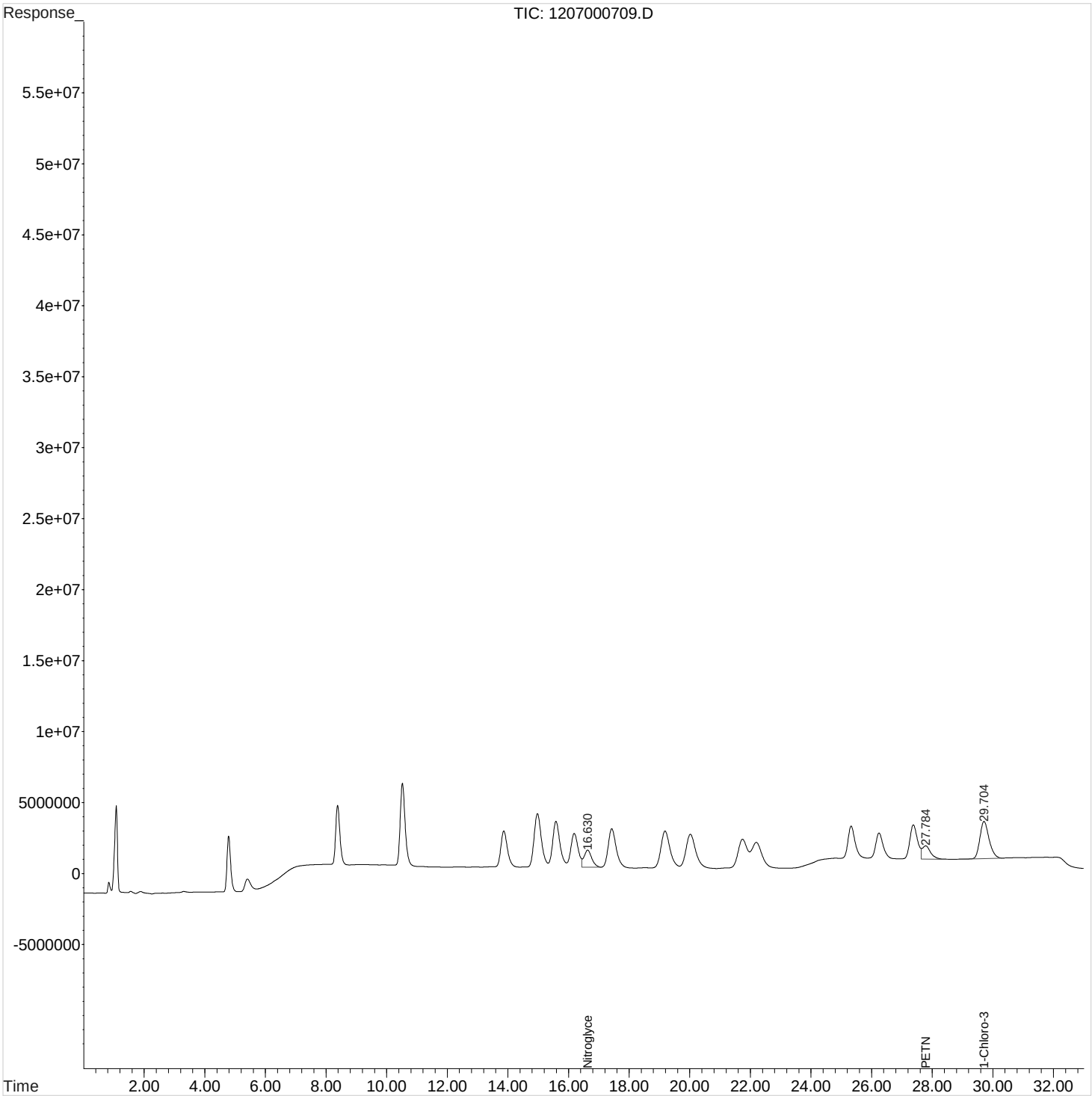
(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:33:37 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

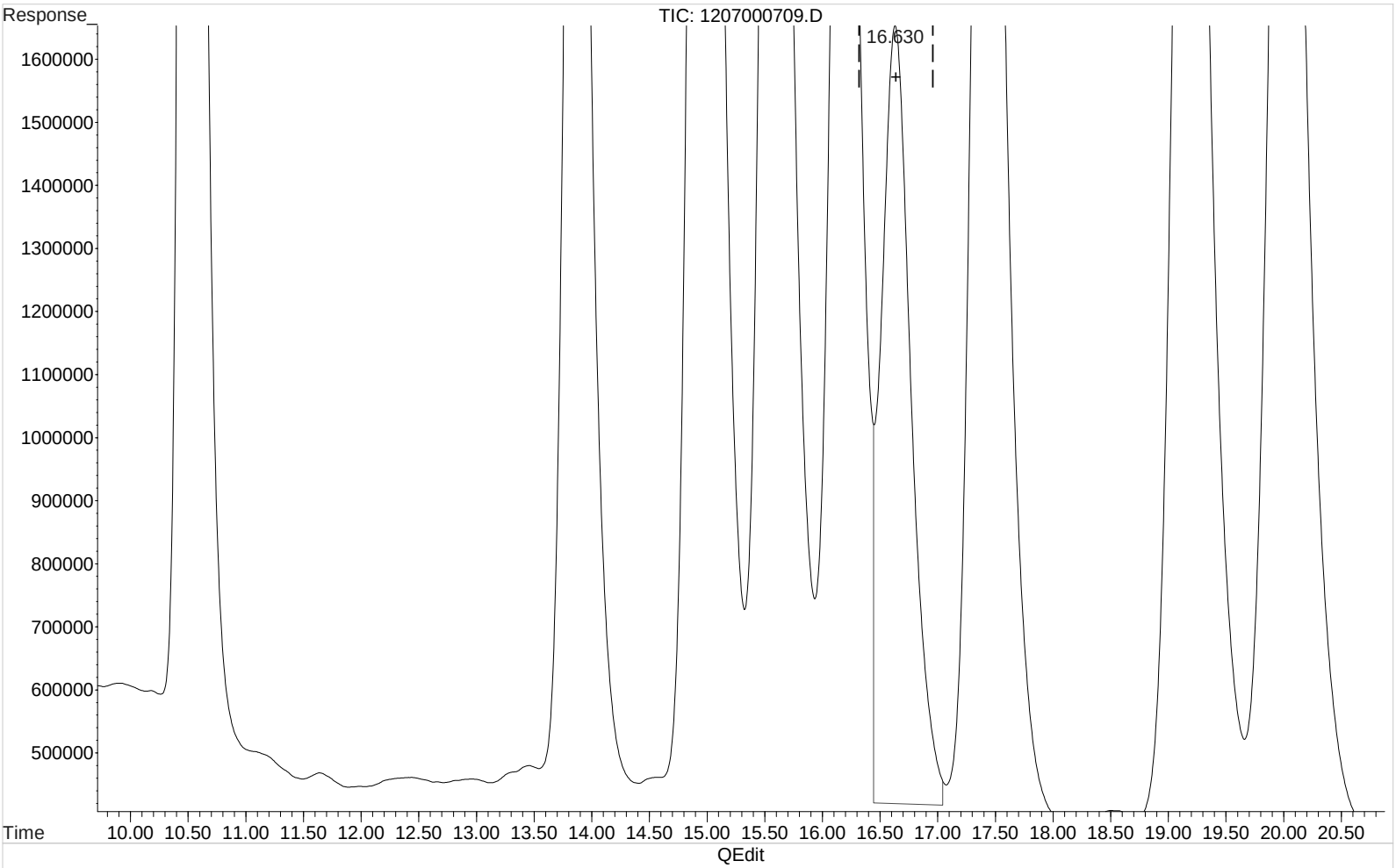


(b) (6)
1st 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:32:30 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.630min 1012.917 ug/L

response 22299324

Manual Integration:

Before

12/08/16

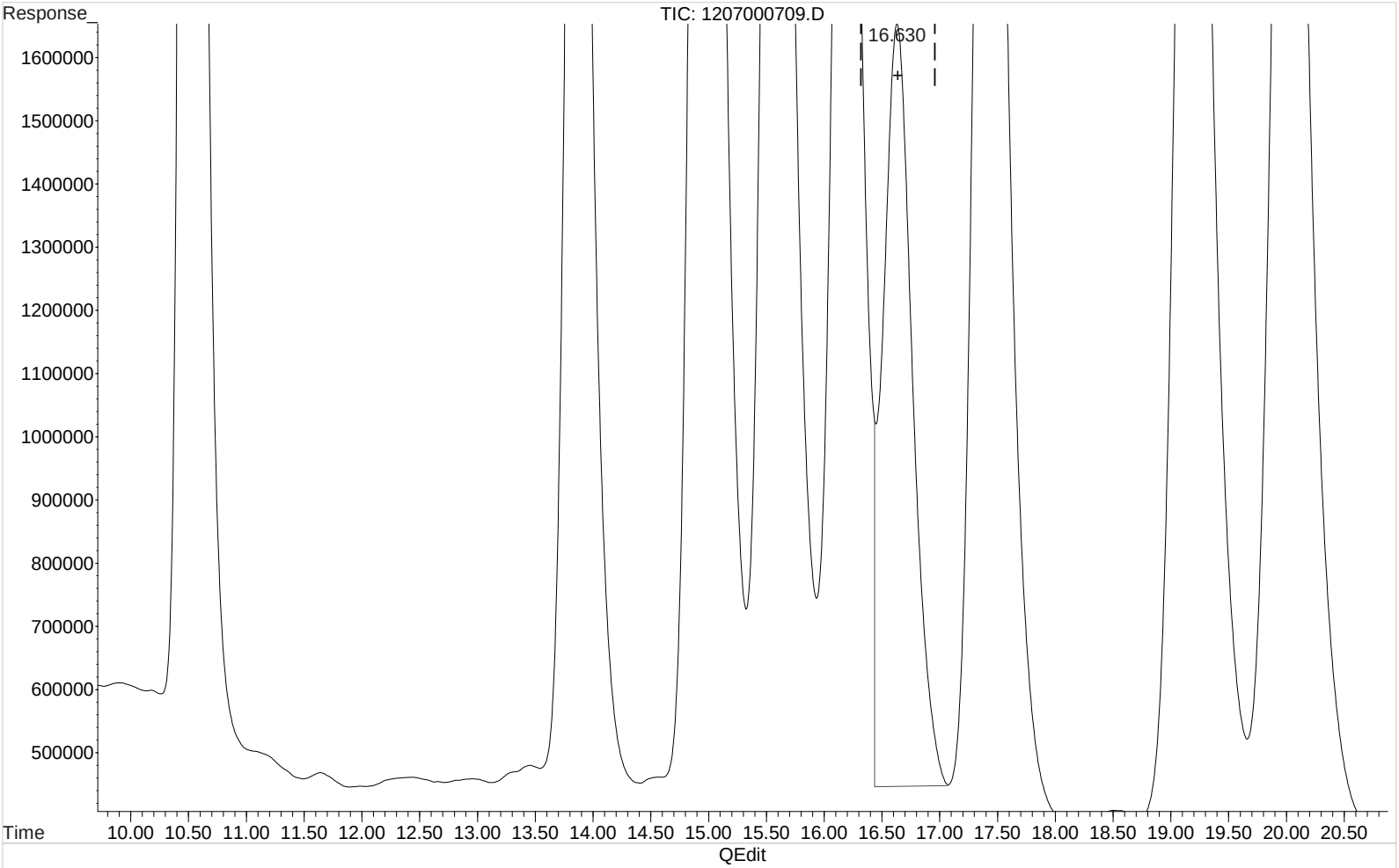
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:32:30 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.630min 977.602 ug/L m

response 21521854

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

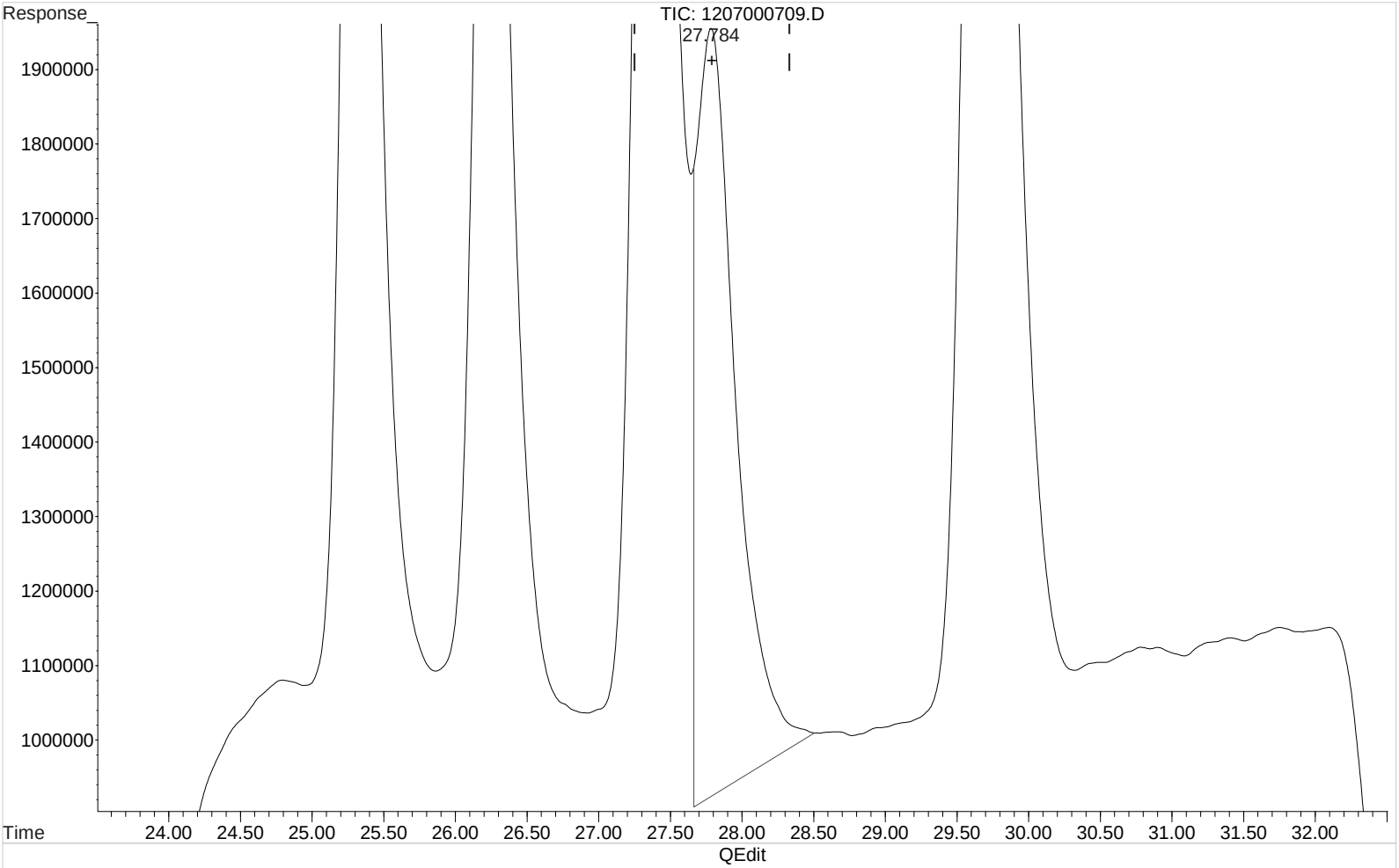
Quantitation Report (Qedit)

1st (b) (6) 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:32:30 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.784min 975.465 ug/L

response 19498853

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

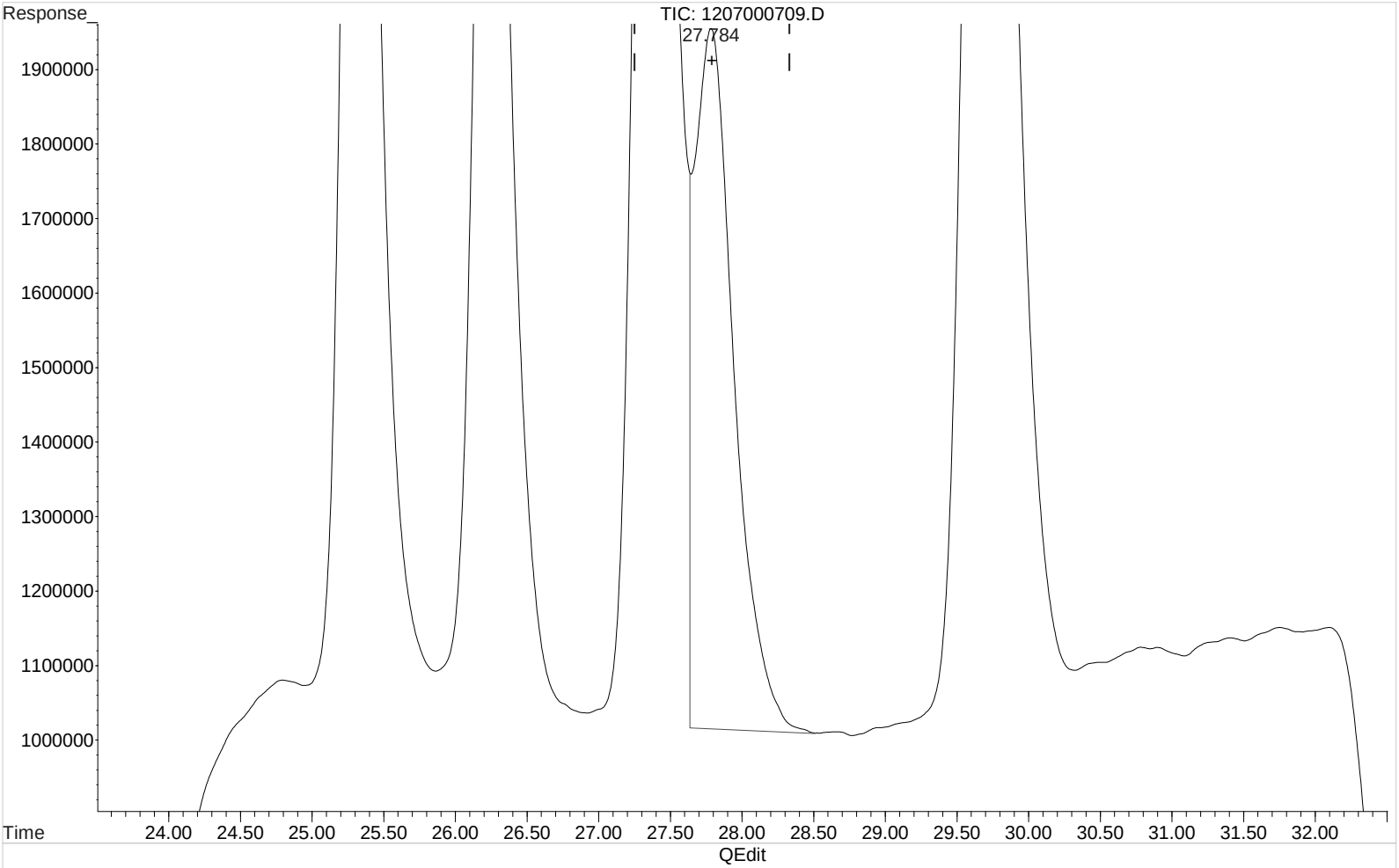
Quantitation Report (Qedit)

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:32:30 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.784min 902.302 ug/L m

response 18036372

Manual Integration:

After

BLC

12/08/16

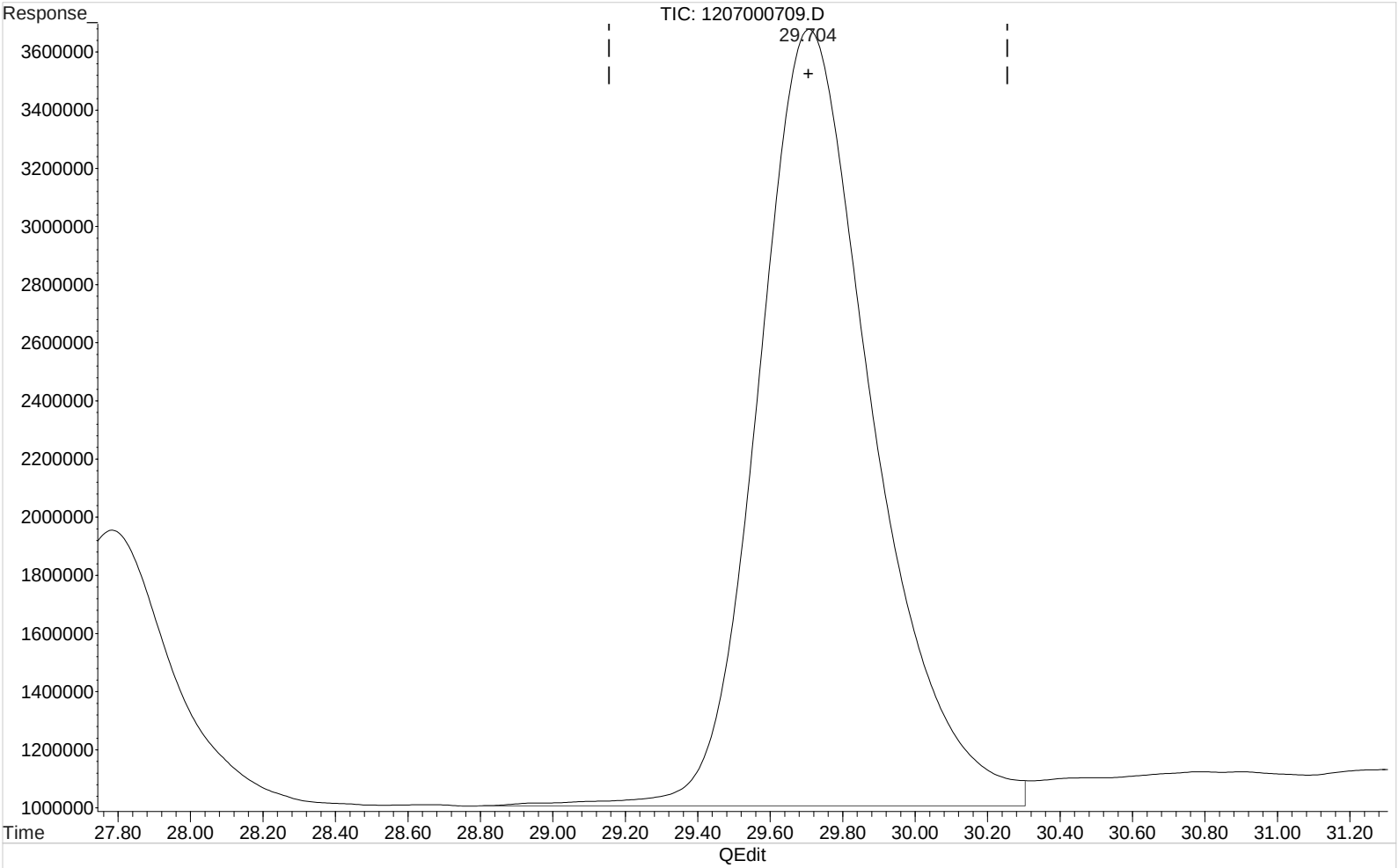
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:32:30 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.704min 995.581 ug/L

response 58729422

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b)(6)

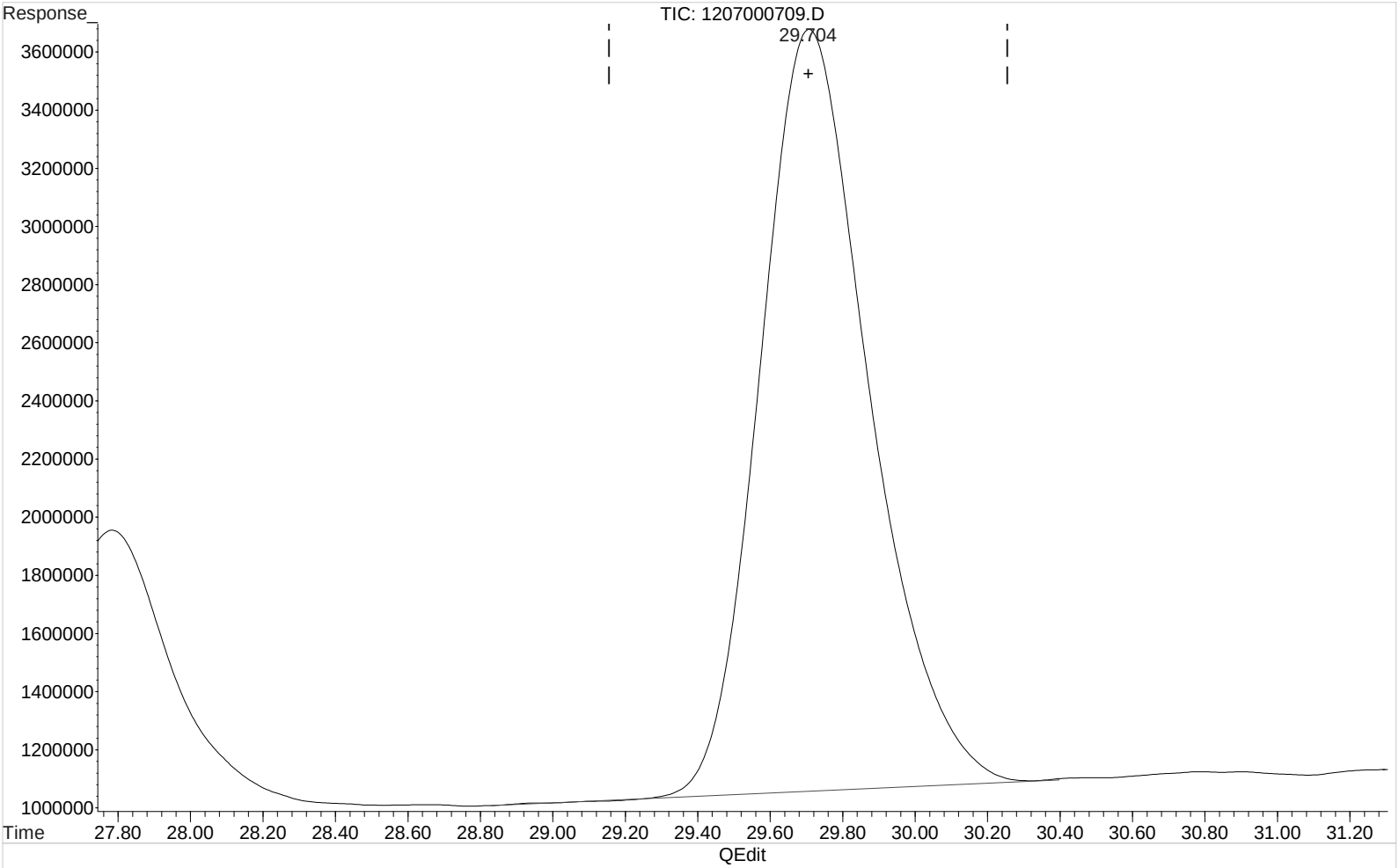
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:32:30 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

29.704min 932.538 ug/L m

response 55010487

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:49 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.700	112386573	1931.234	ug/L	m
Target Compounds						
1) T	Nitroglycerin	16.647	43206000	1971.406	ug/L	m
2) T	PETN	27.787	35607998	1816.855	ug/L	m

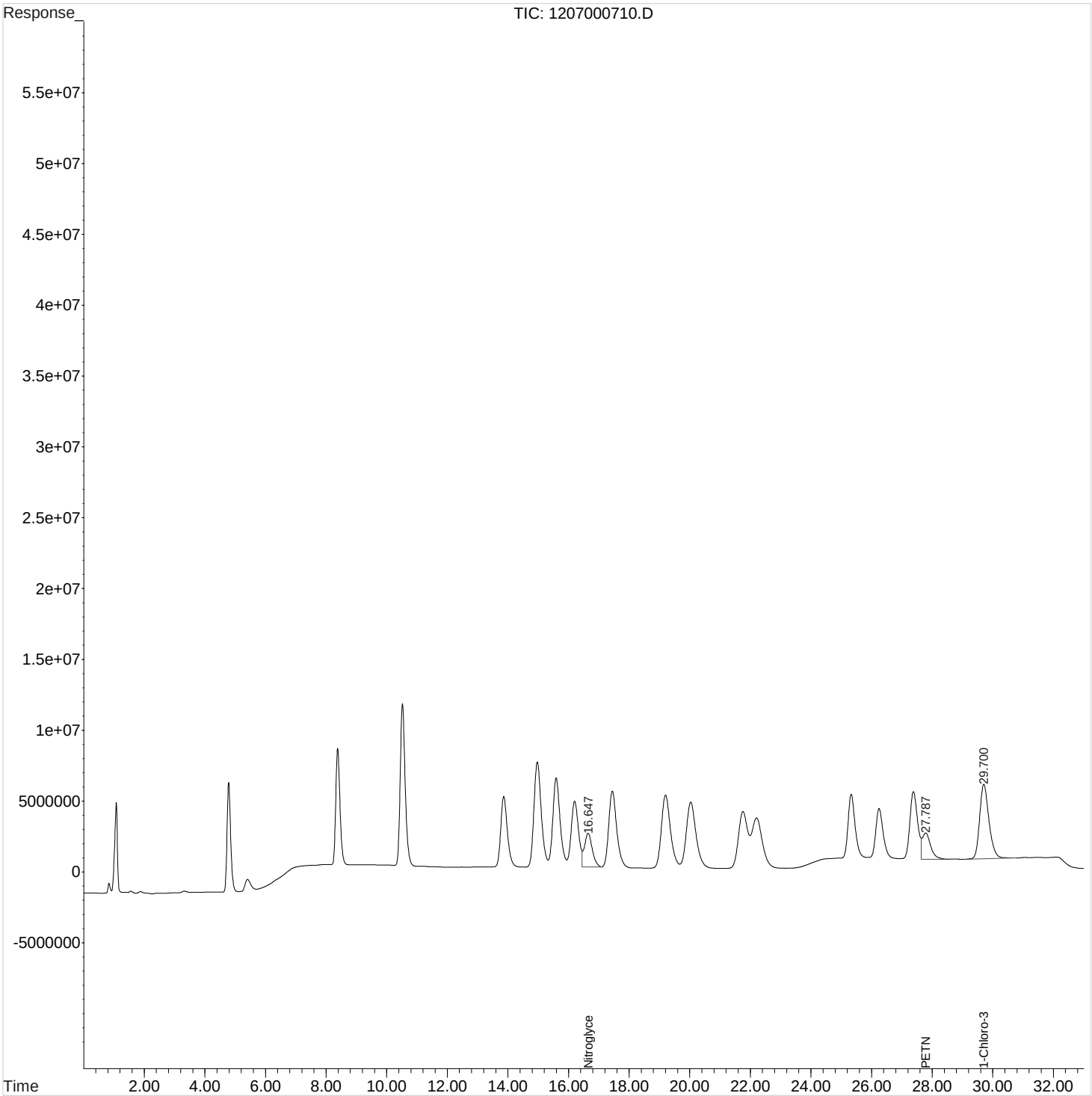
(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)
1st 2/08/16
2n 2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:49 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



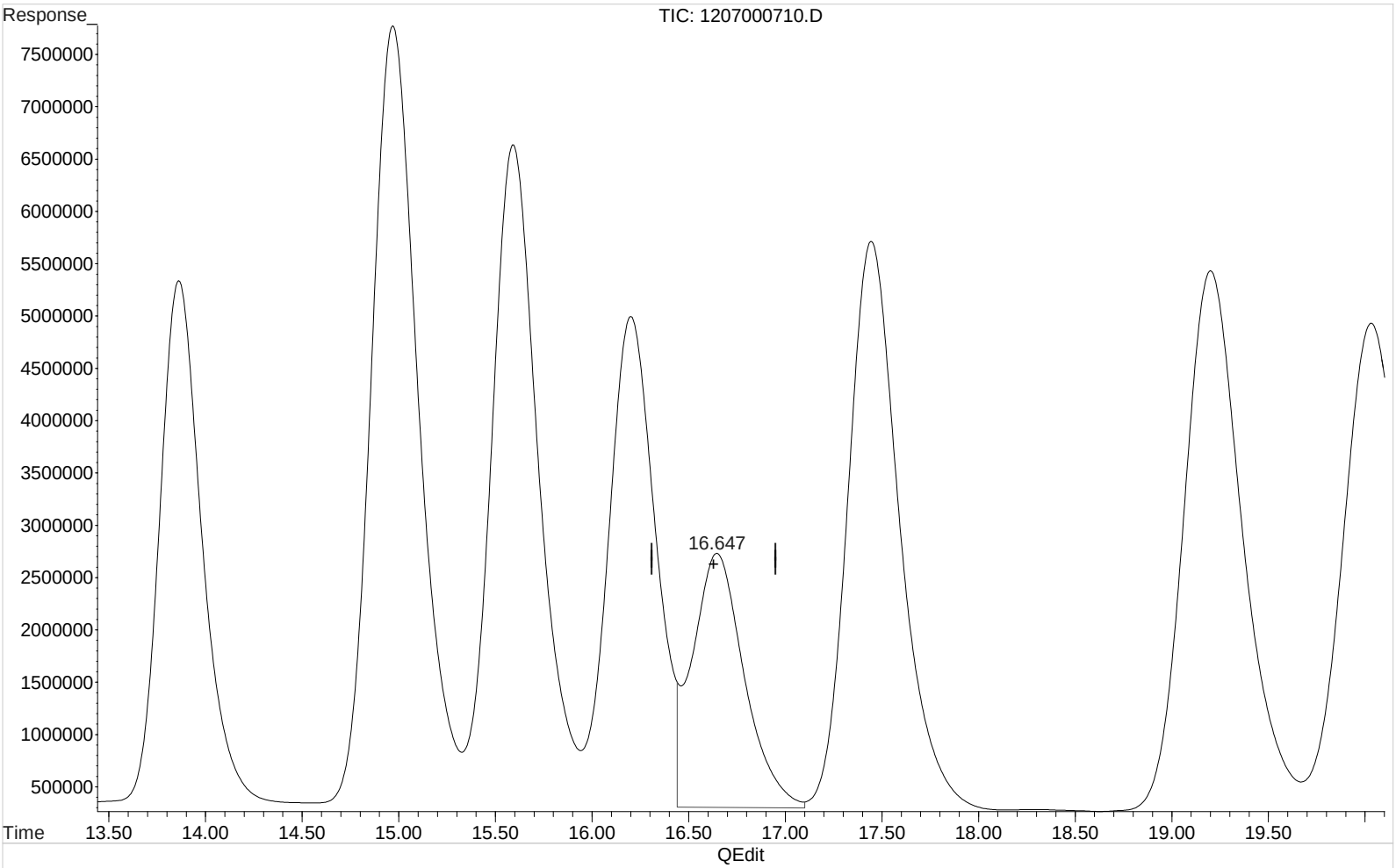
Quantitation Report (Qedit)

1st (b) (6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:03 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.647min 2072.566 ug/L

response 45423047

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

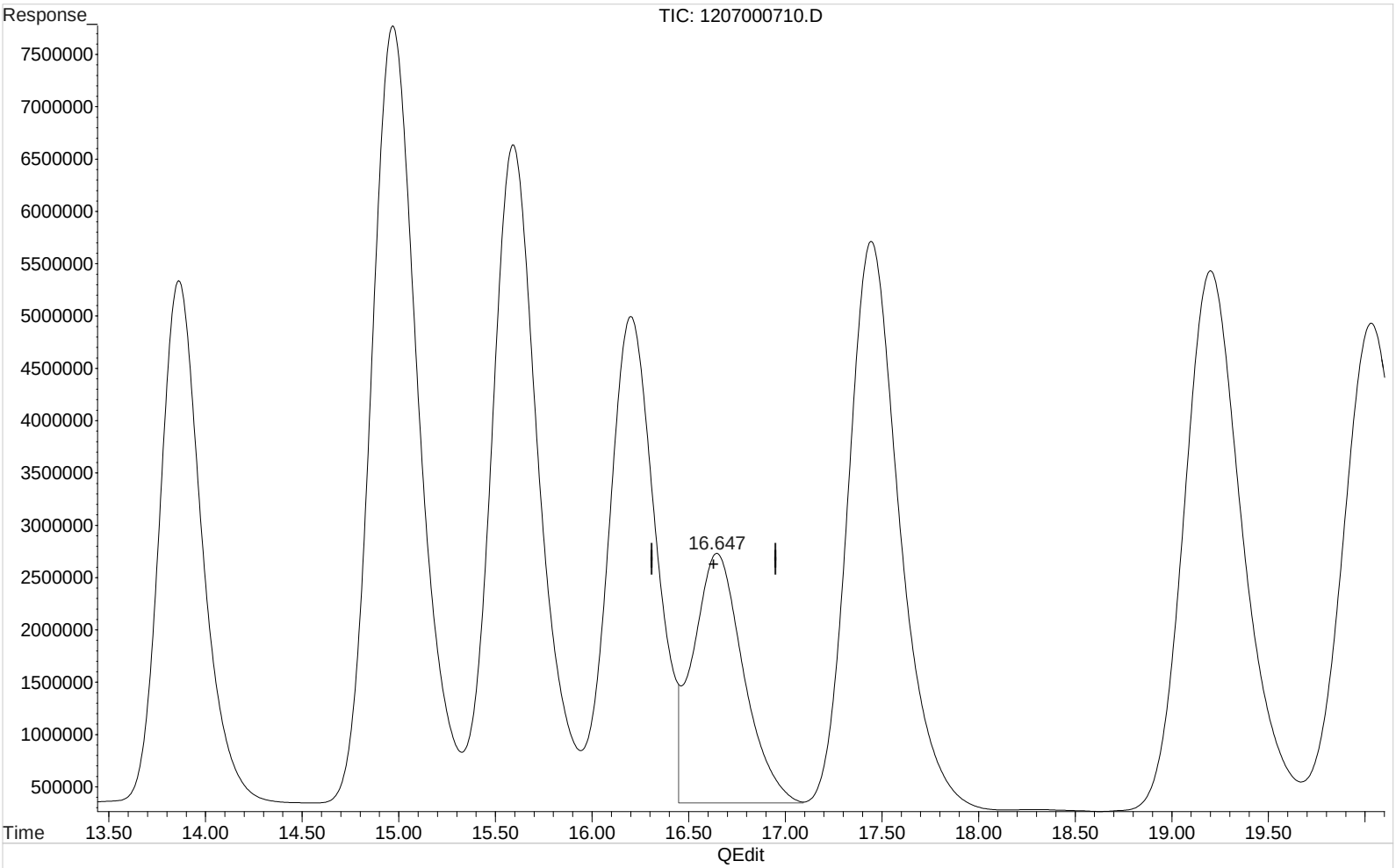
Quantitation Report (Qedit)

(b) (6)
1st 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:03 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.647min 1971.406 ug/L m

response 43206000

Manual Integration:

After

BLC

12/08/16

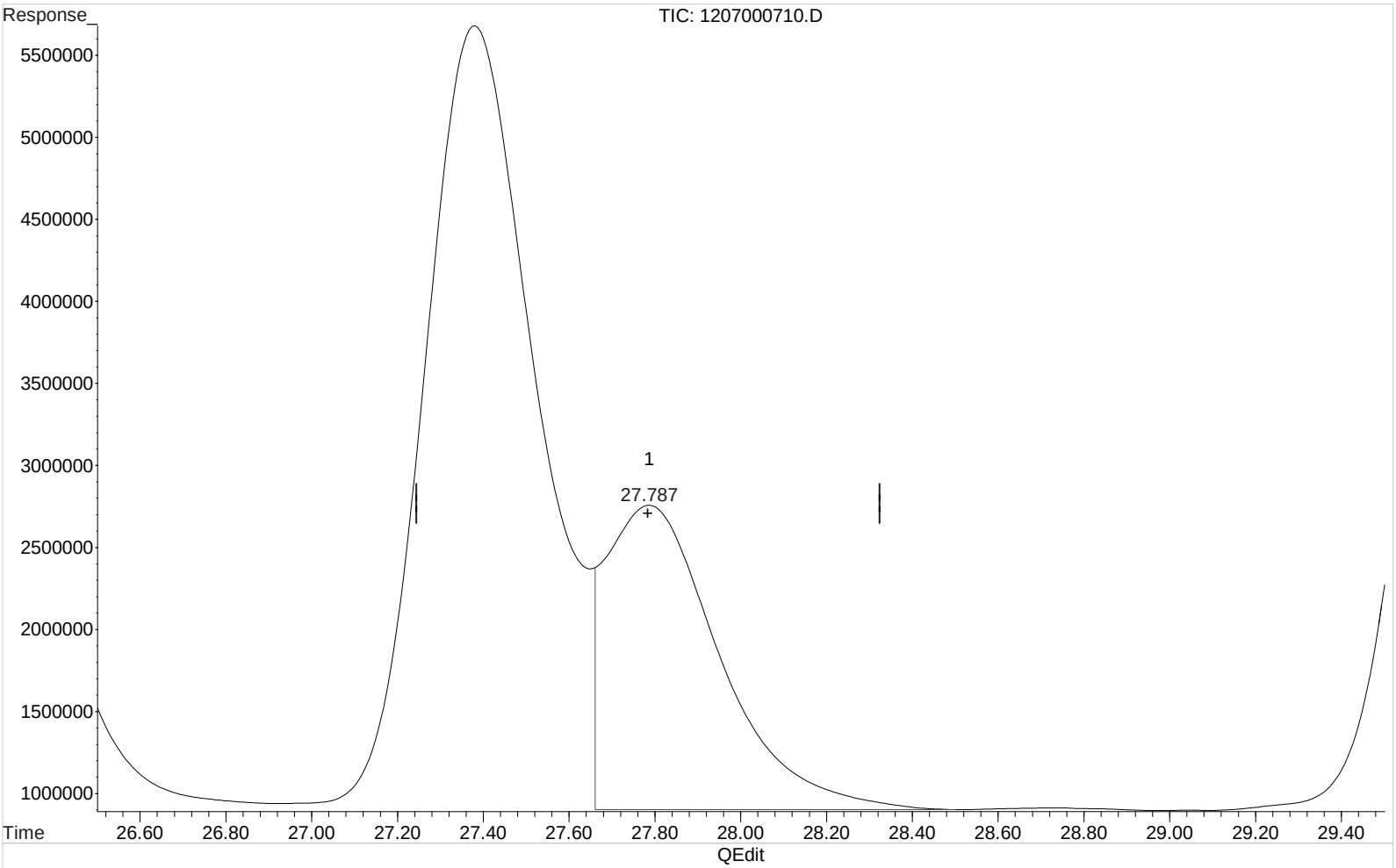
(+) = Expected Retention Time

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:03 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.787min 1727.074 ug/L

response 33848411

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

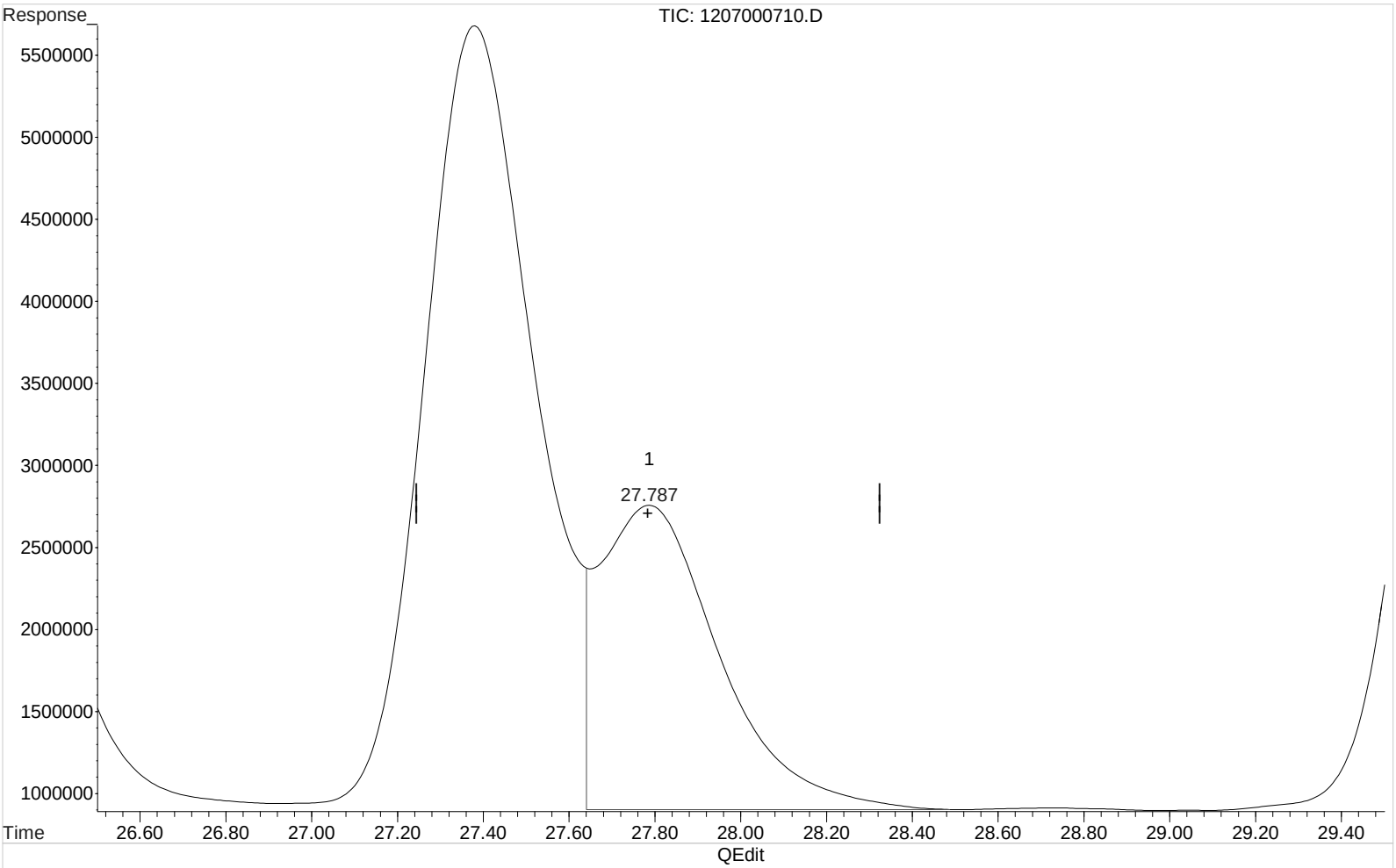
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:03 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.787min 1816.855 ug/L m

response 35607998

Manual Integration:

After

BLC

12/08/16

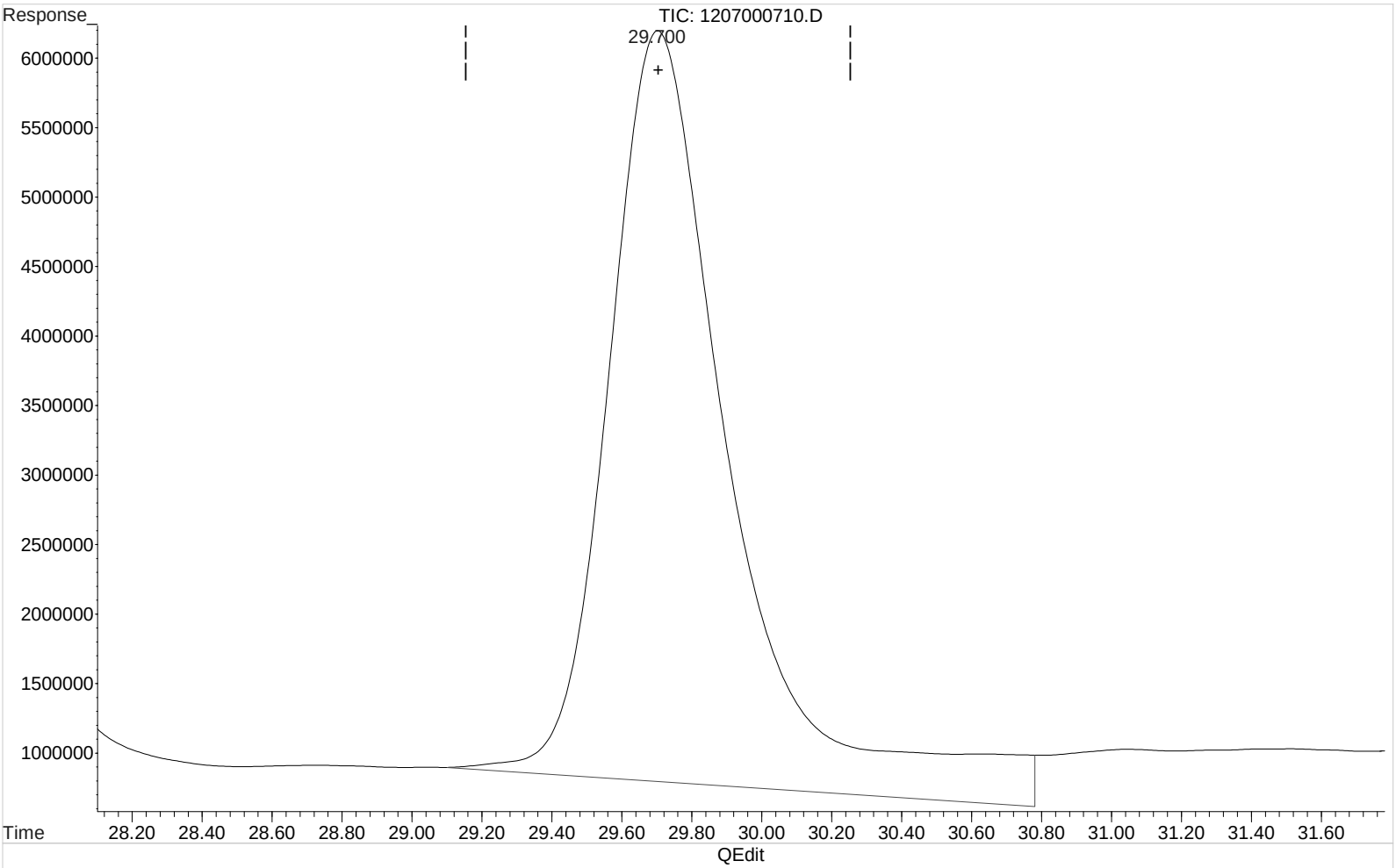
(+) = Expected Retention Time

1st (b) (6) 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:03 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.700min 2259.280 ug/L

response 131476903

Manual Integration:

Before

12/08/16

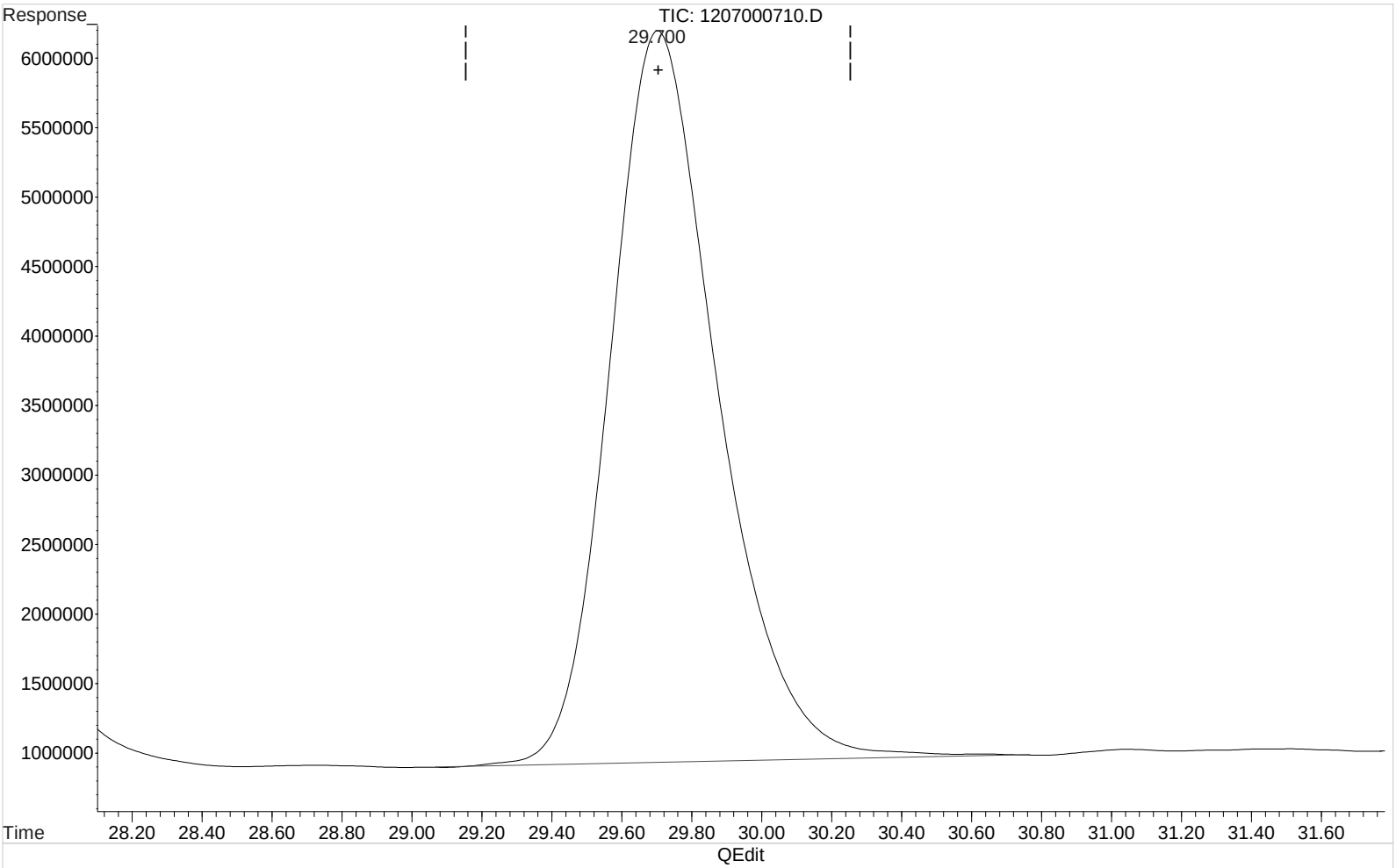
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:03 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

29.700min 1931.234 ug/L m

response 112386573

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:08:50 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.688	288614109	4988.087	ug/L	m
Target Compounds						
1) T	Nitroglycerin	16.621	108352662	4955.731	ug/L	m
2) T	PETN	27.781	89947543	4660.595	ug/L	m

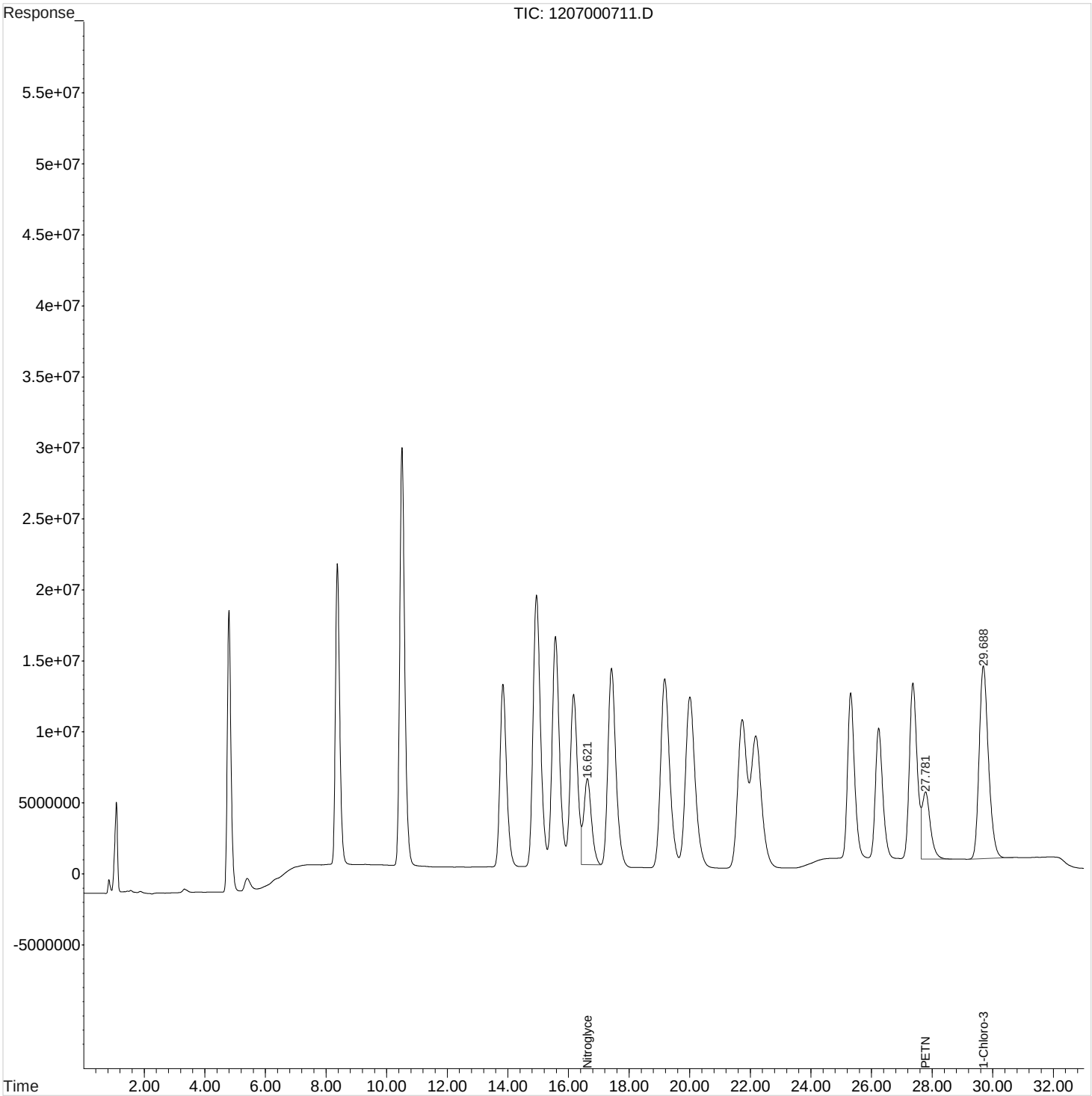
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:08:50 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(b) (6)

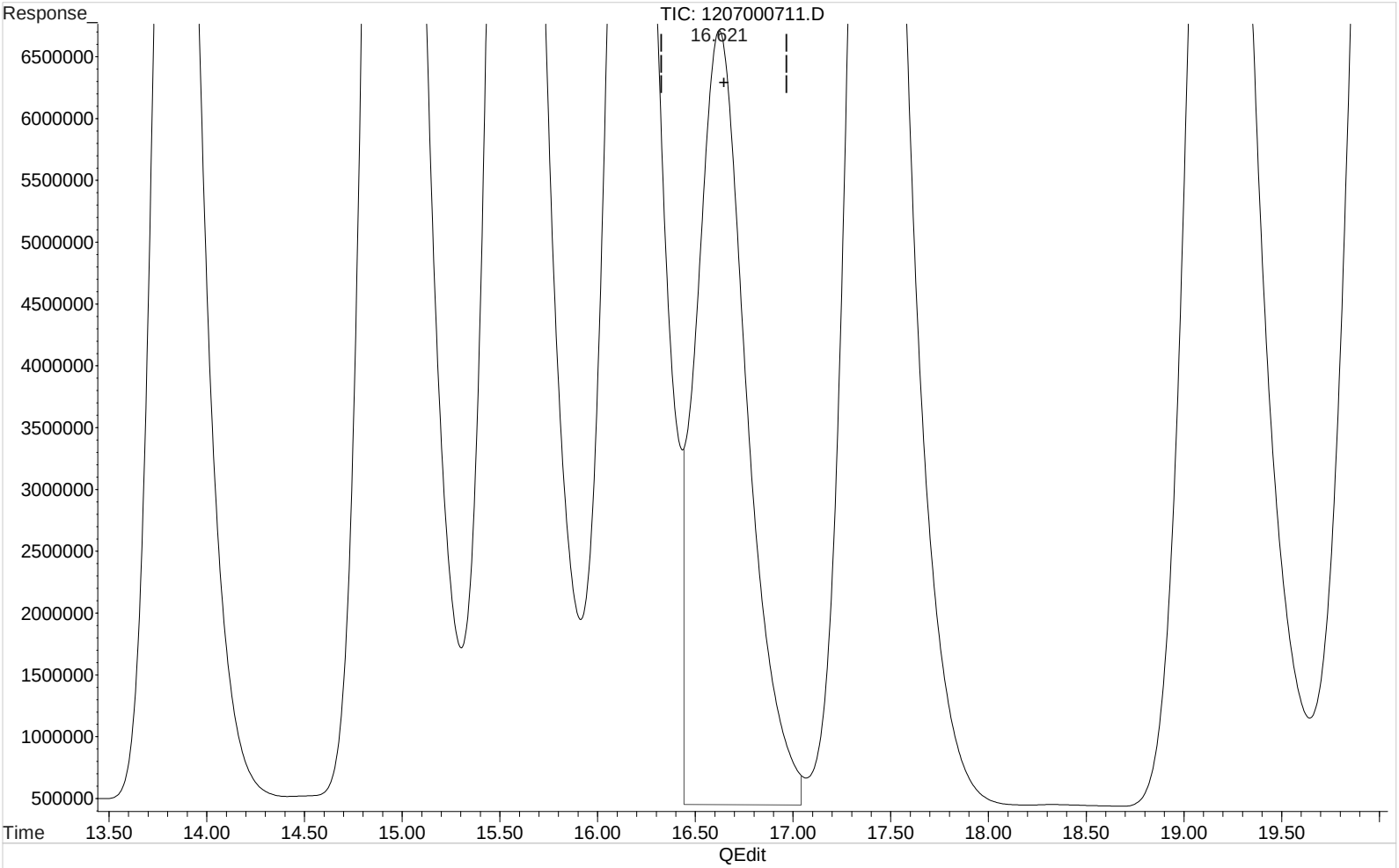
2/08/16

2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:35:15 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.621min 5145.490 ug/L

response 112501565

Manual Integration:

Before

12/08/16

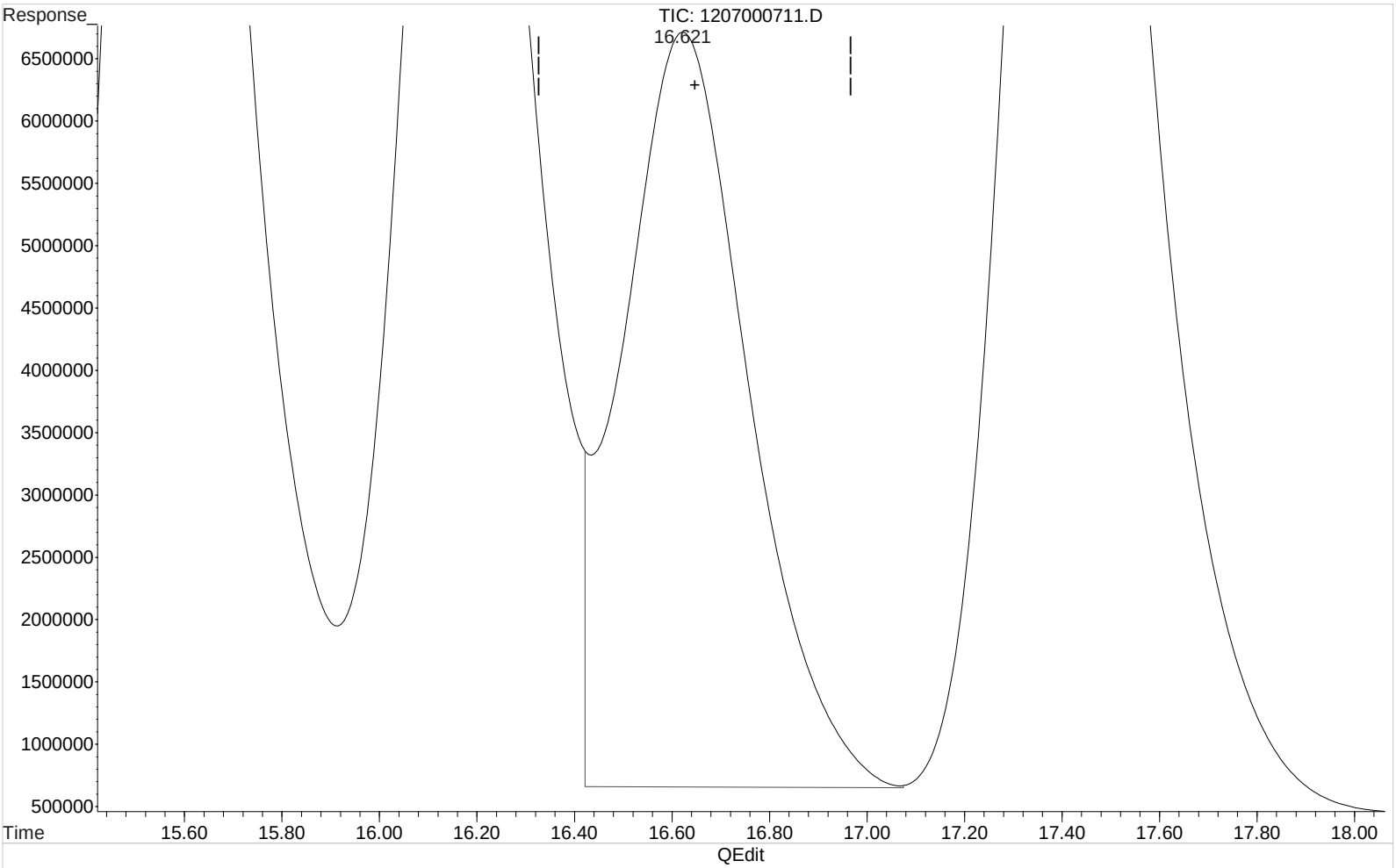
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:36:52 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.621min 4955.731 ug/L m

response 108352662

Manual Integration:

After

Baseline/Shoulder

12/08/16

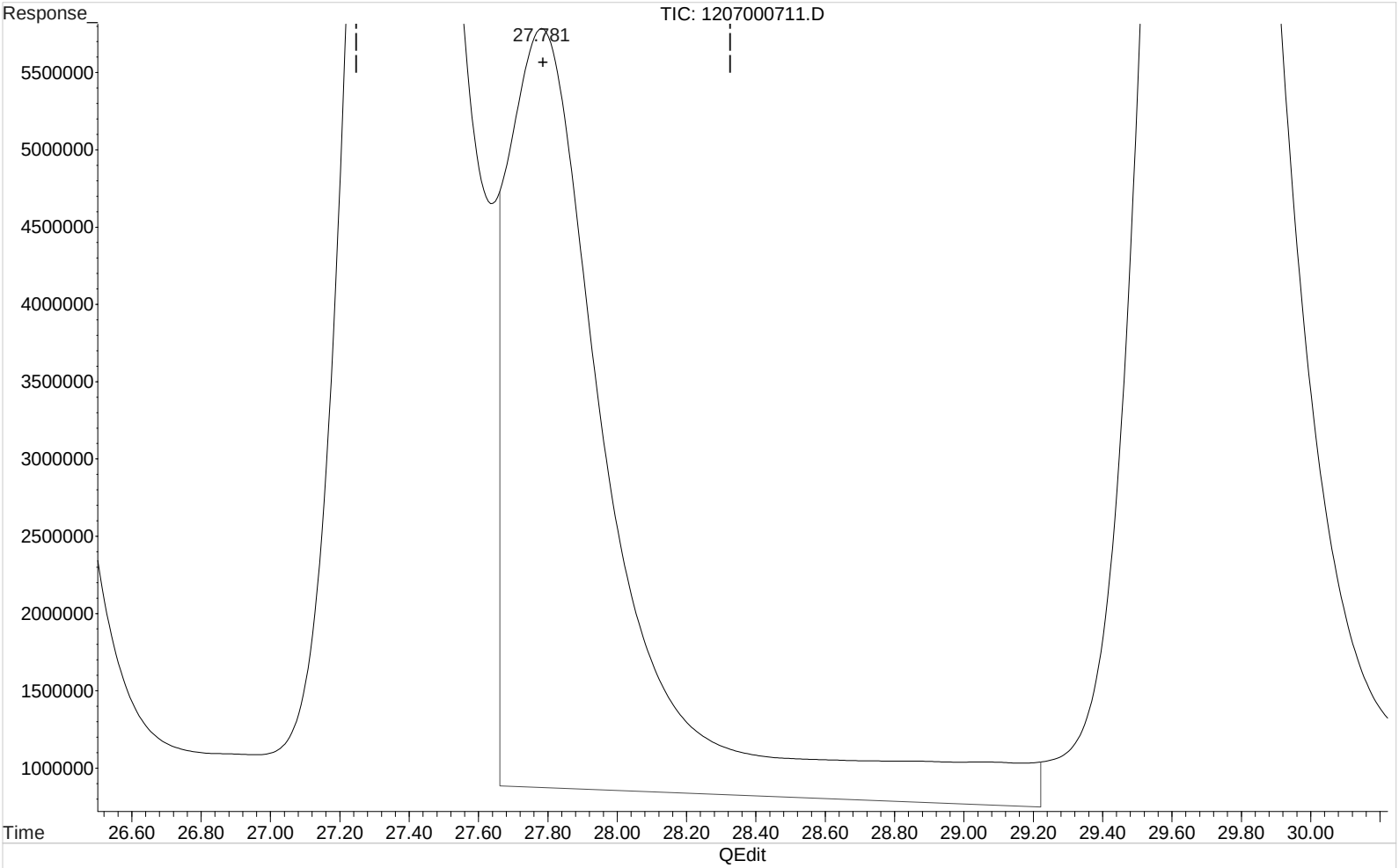
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:35:15 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.781min 5440.778 ug/L

response 105004749

Manual Integration:

Before

12/08/16

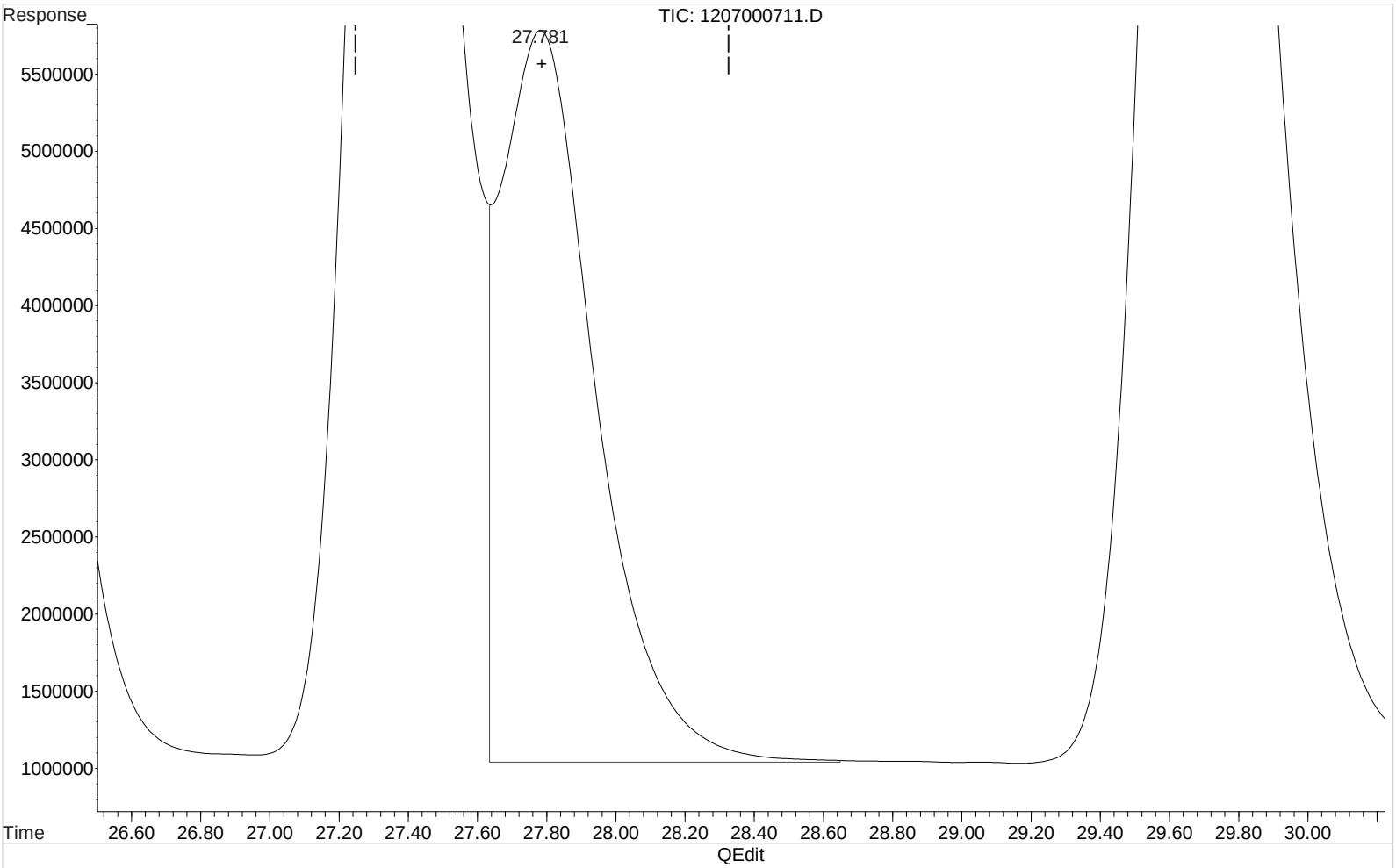
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:35:15 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.781min 4660.595 ug/L m

response 89947543

Manual Integration:

After

BLC

12/08/16

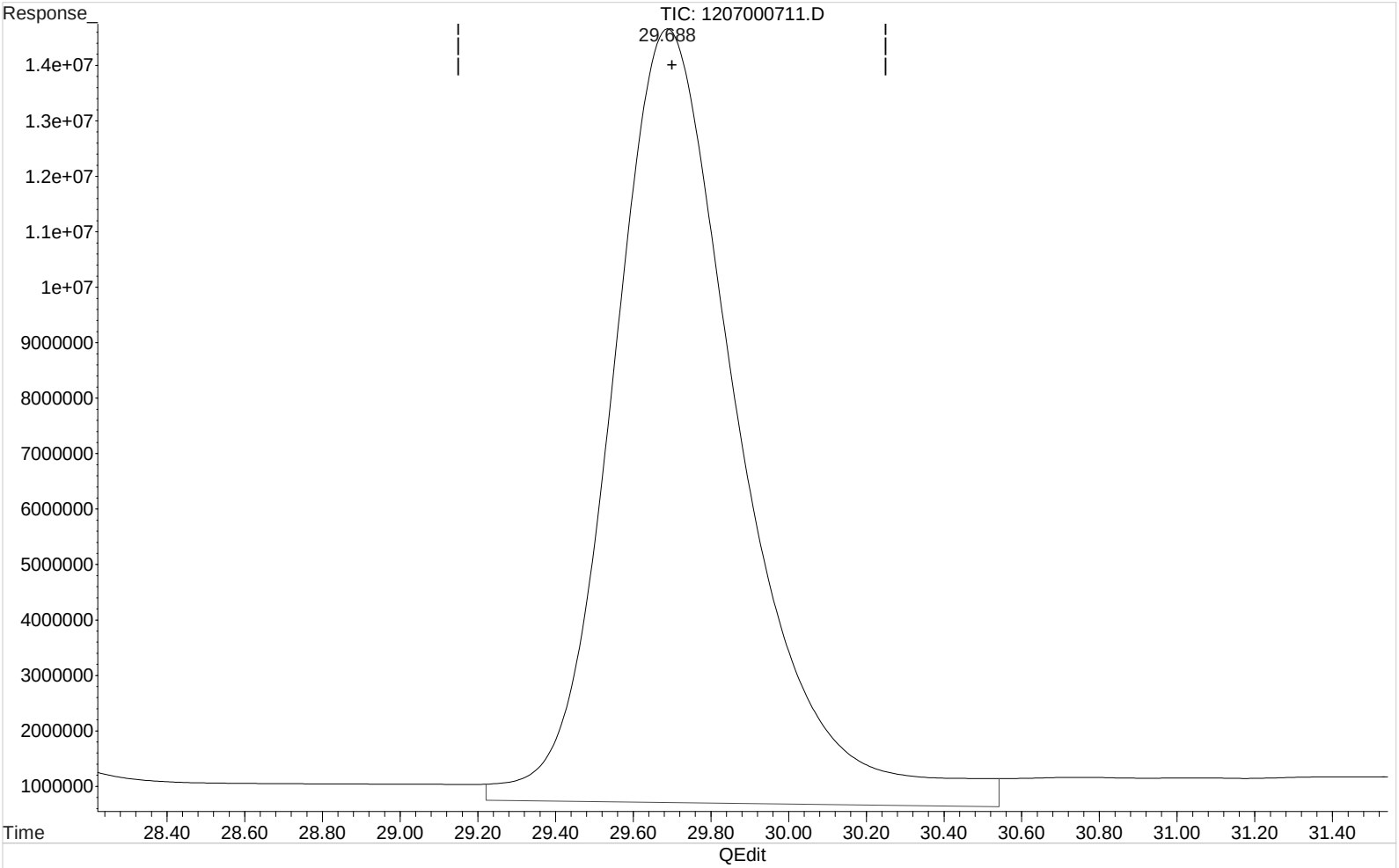
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:35:15 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.688min 5541.212 ug/L

response 320618313

Manual Integration:

Before

12/08/16

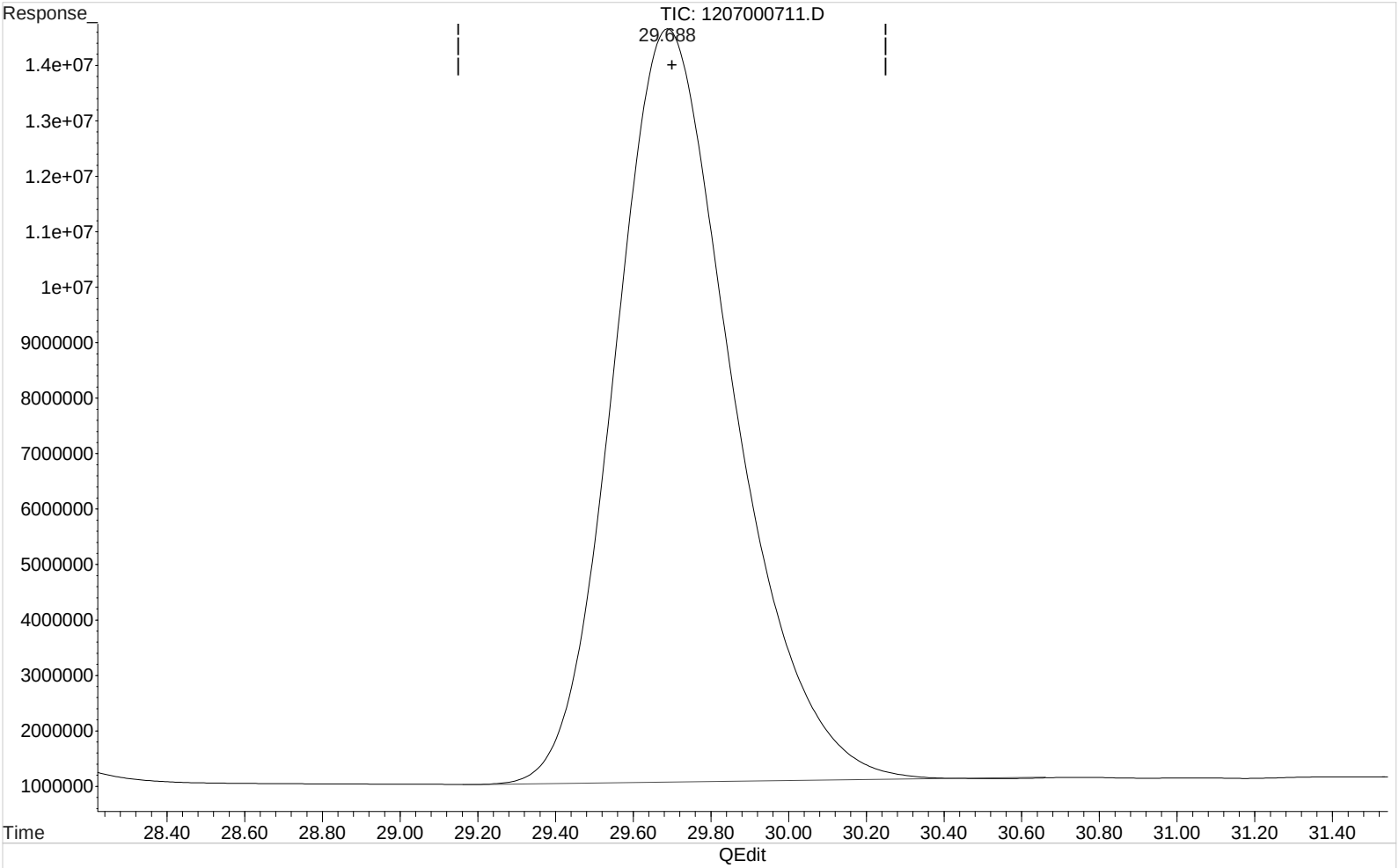
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:35:15 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

29.688min 4988.087 ug/L m

response 288614109

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)

2/08/16

2/09/16

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000712.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:09:08 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:37:03 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.704	495774702	8571.338	ug/L	
Target Compounds						
1) T	Nitroglycerin	16.638	204600197	9302.543	ug/L	m
2) T	PETN	27.791	173278128	9066.254	ug/L	m

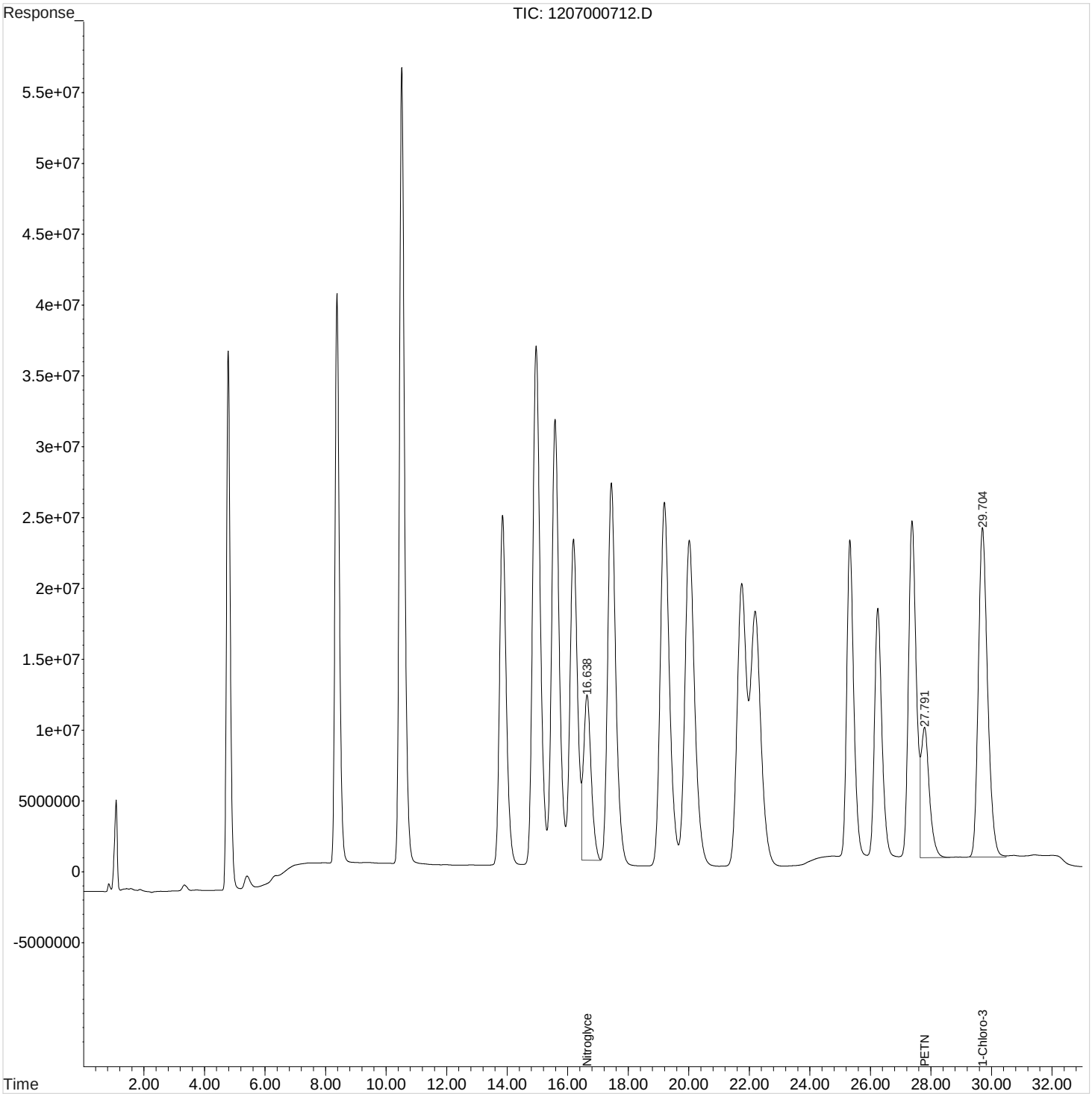
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000712.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:09:08 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:37:03 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

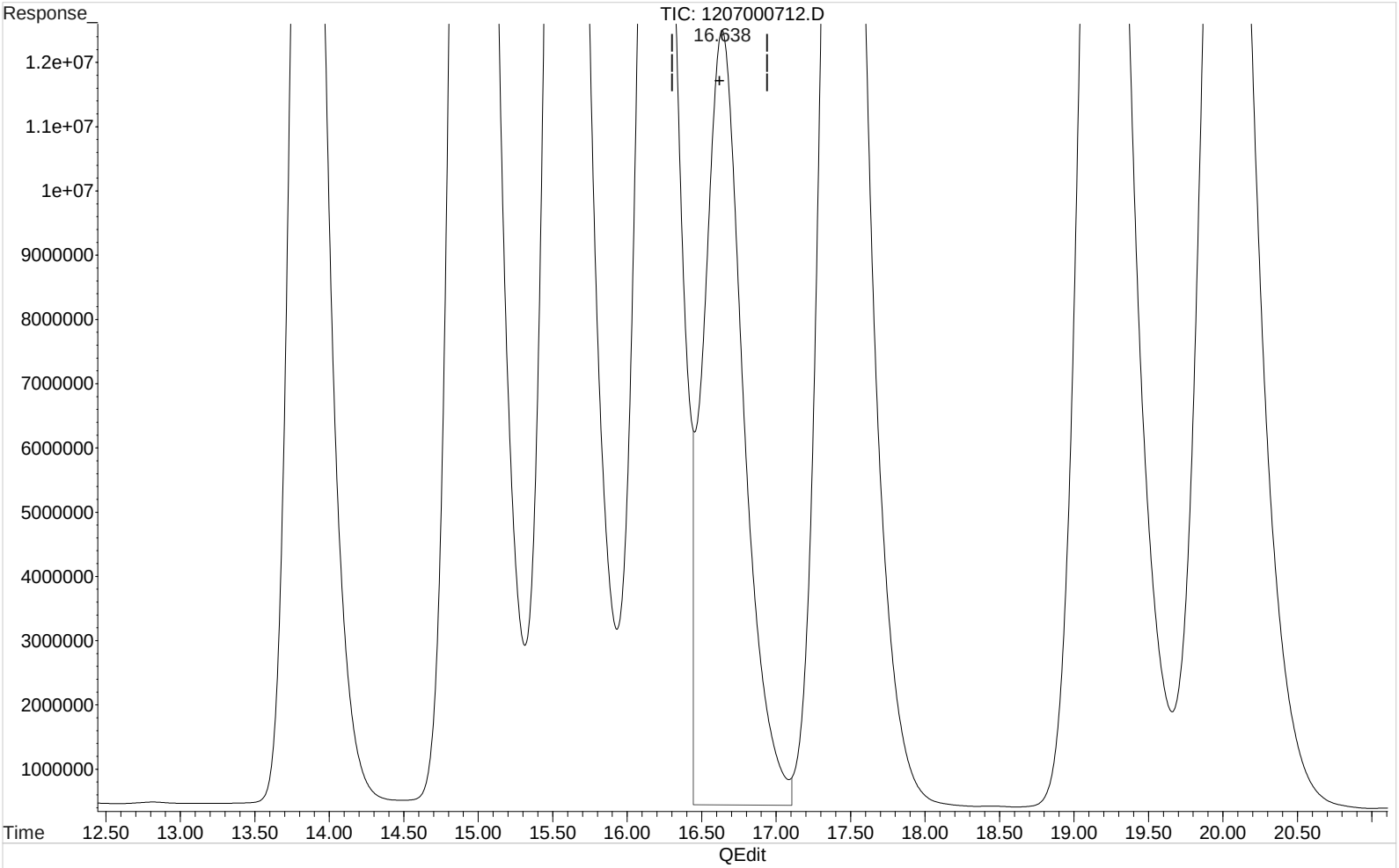


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000712.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:37:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:37:03 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.638min 10174.148 ug/L

response 223770282

Manual Integration:

Before

12/08/16

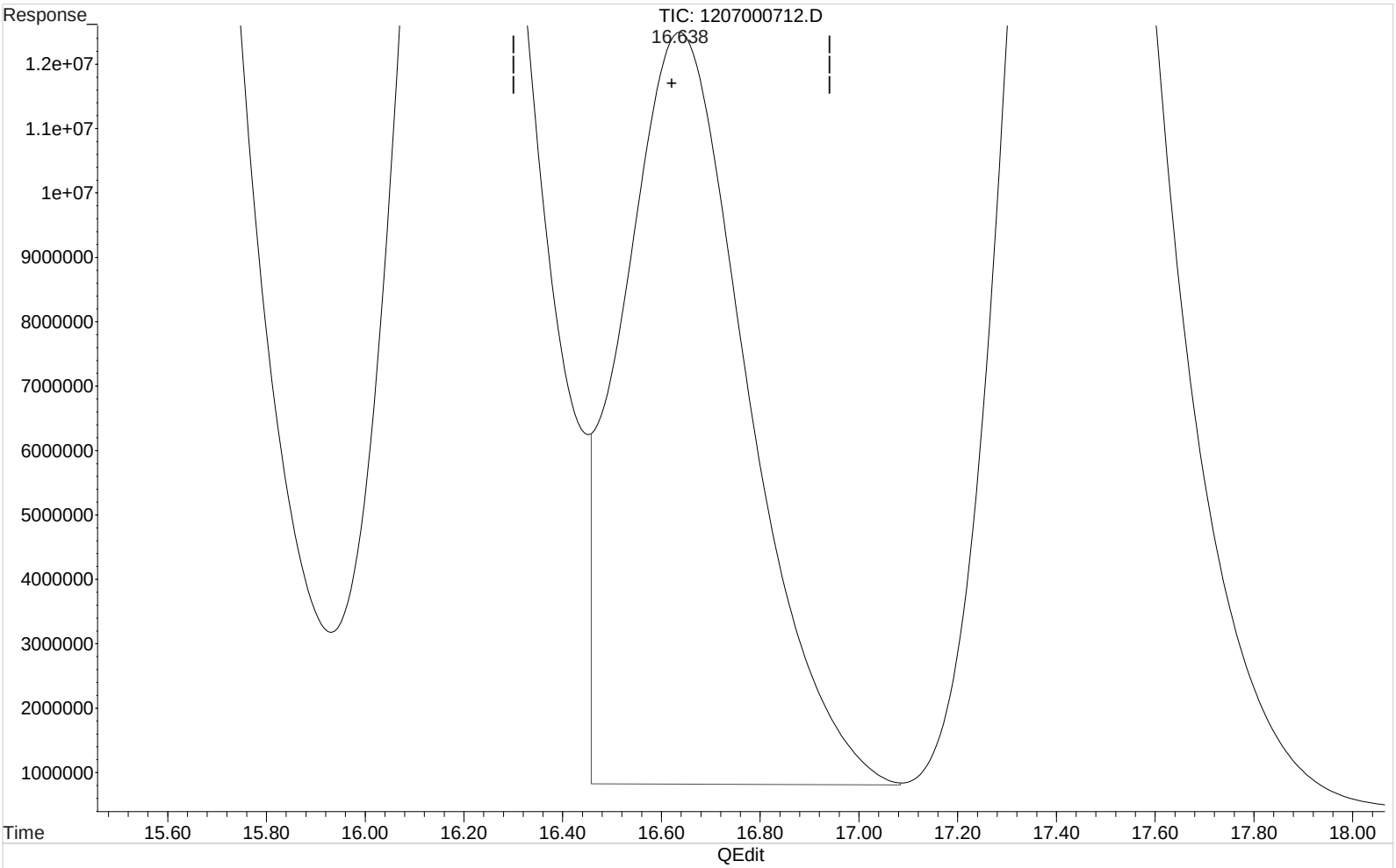
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000712.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:38:00 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:37:03 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.638min 9302.543 ug/L m

response 204600197

Manual Integration:

After

Baseline/Shoulder

12/08/16

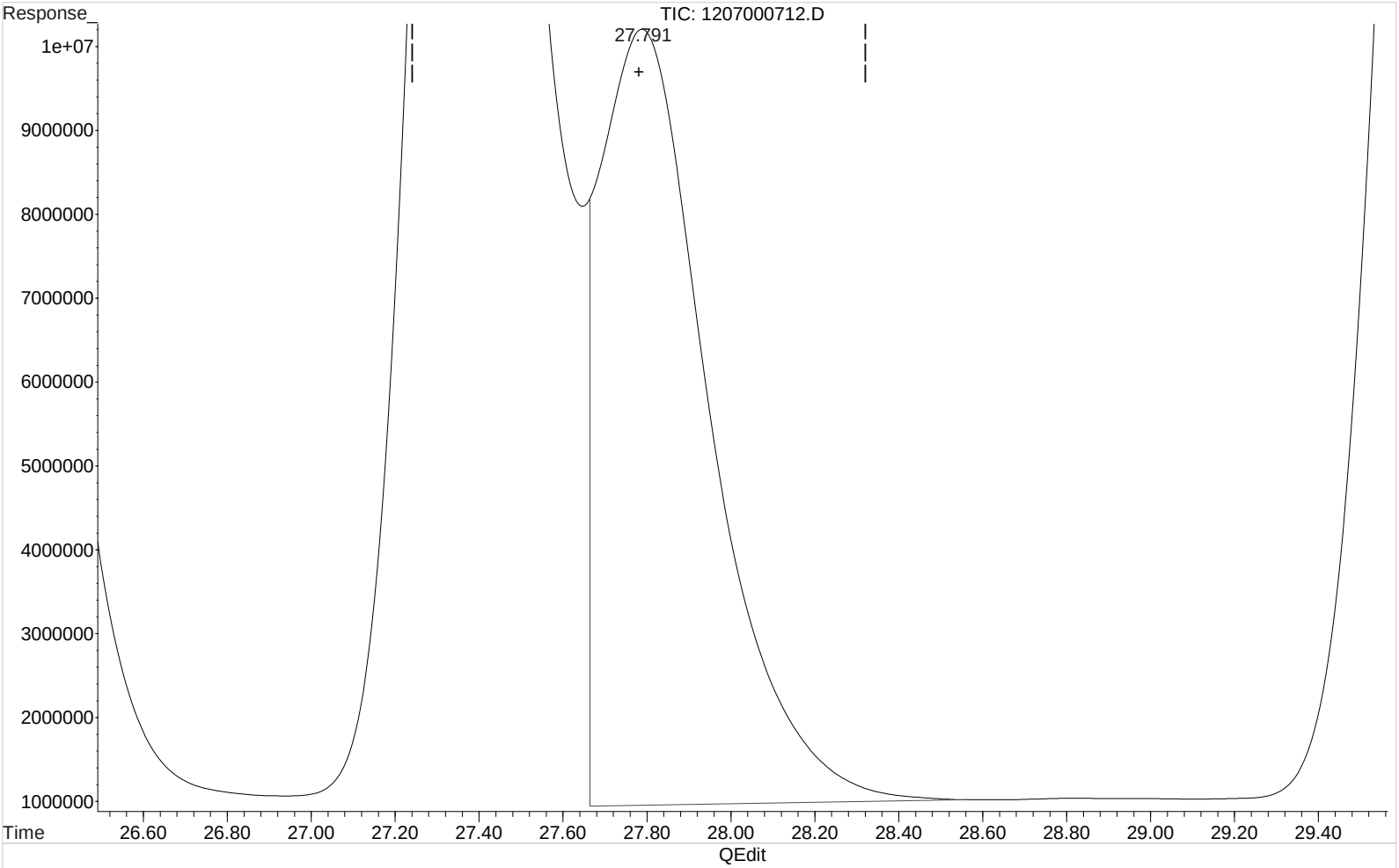
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000712.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:37:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:37:03 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.791min 8680.900 ug/L

response 165913087

Manual Integration:

Before

12/08/16

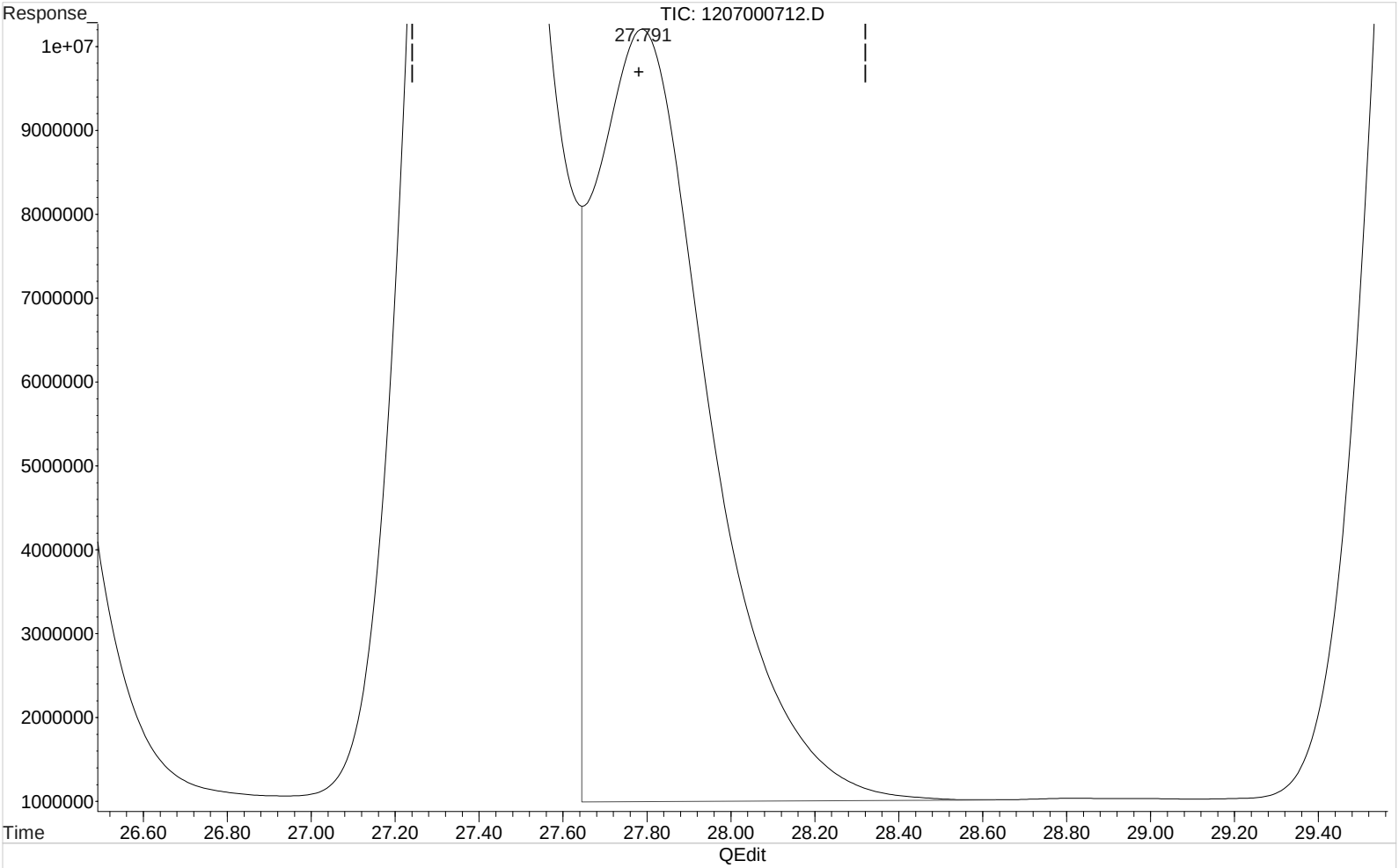
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000712.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:37:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:37:03 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.791min 9066.254 ug/L m

response 173278128

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000713.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:09:26 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:38:20 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	29.704	1145844586	20170.461 ug/L
Target Compounds				
1) T	Nitroglycerin	16.624	424970178	19359.201 ug/L m
2) T	PETN	27.797	360374404	19078.177 ug/L m

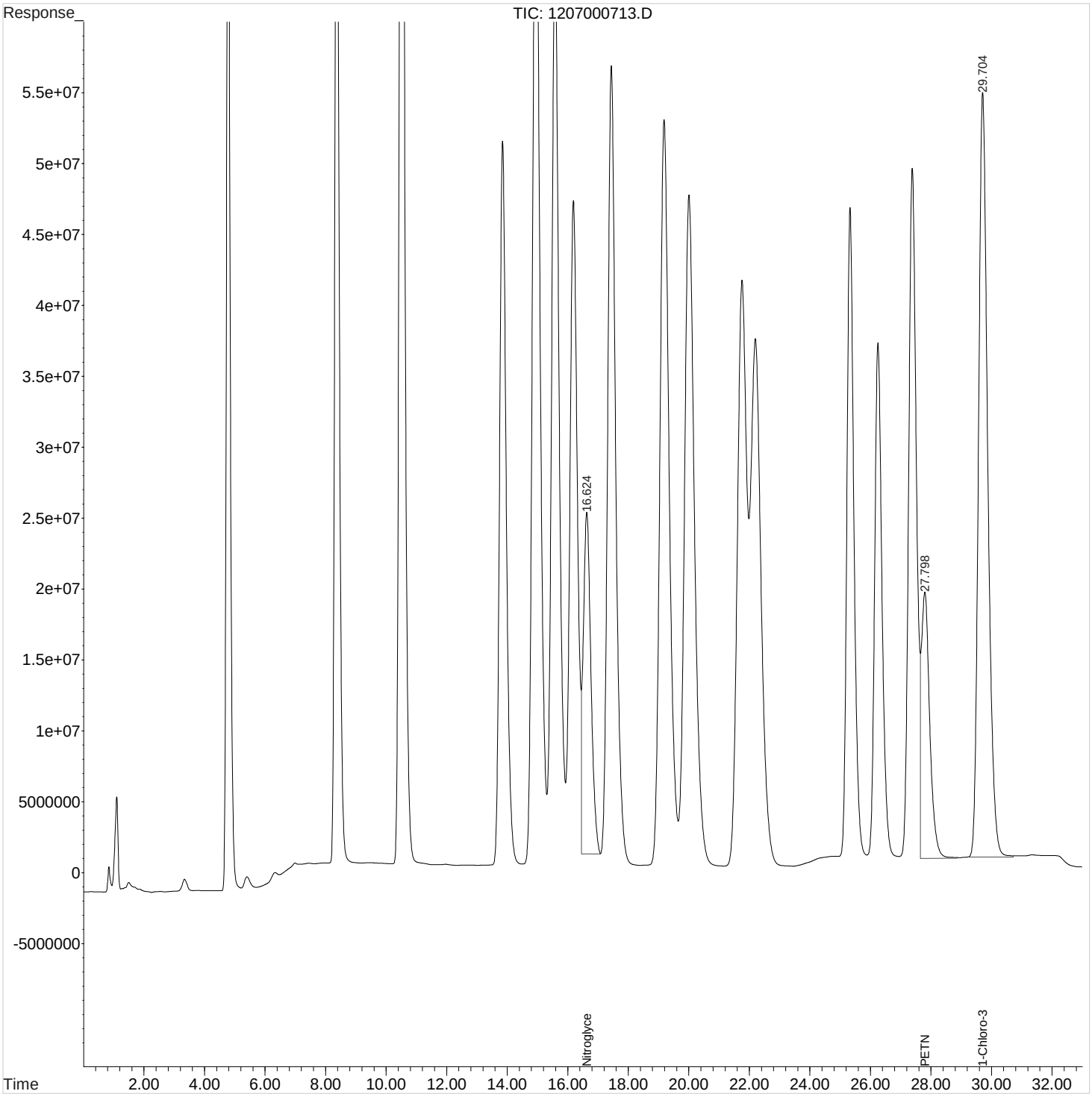
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000713.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:09:26 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:38:20 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

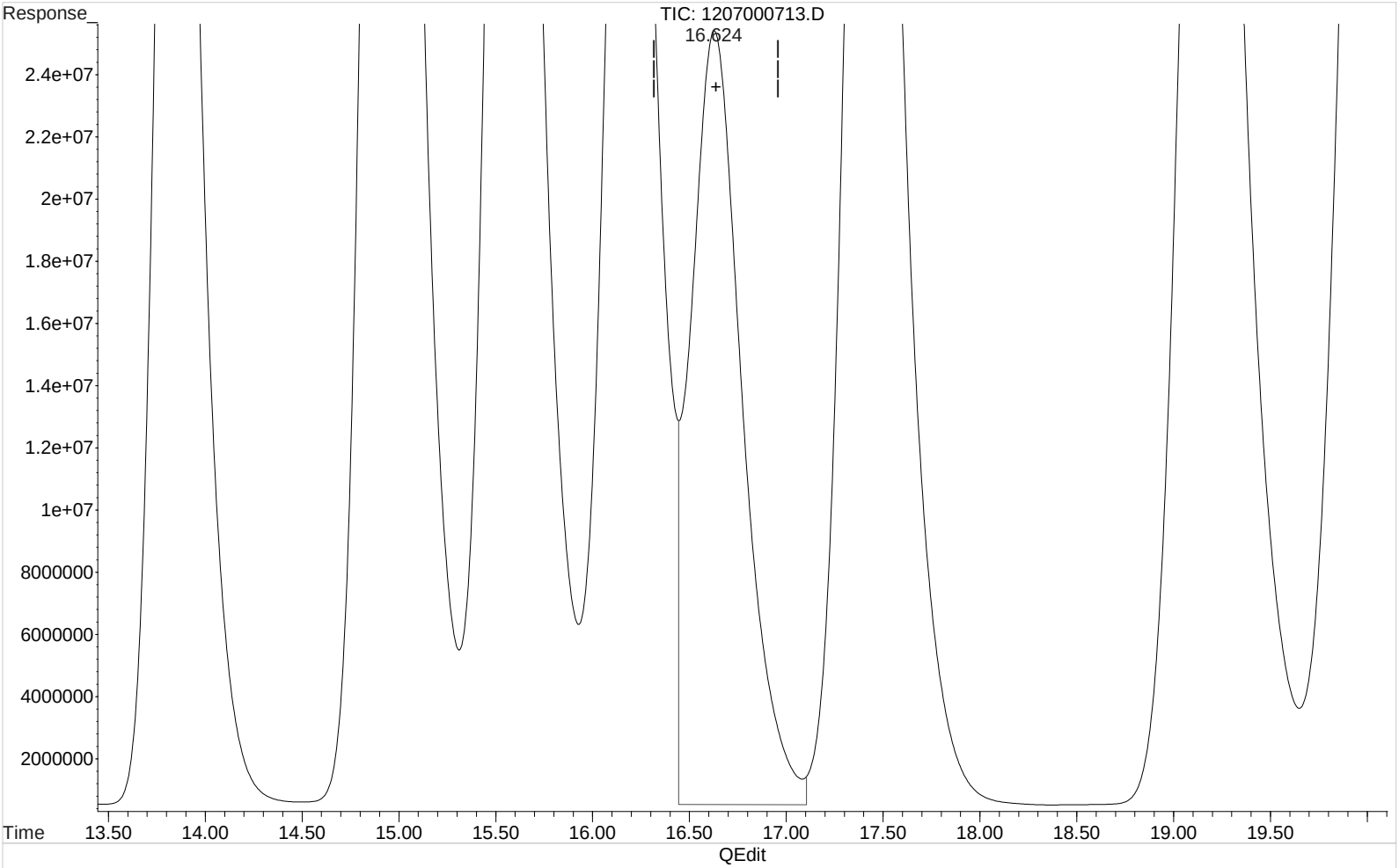


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000713.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:38:32 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:38:20 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.624min 21000.929 ug/L

response 461009128

Manual Integration:

Before

12/08/16

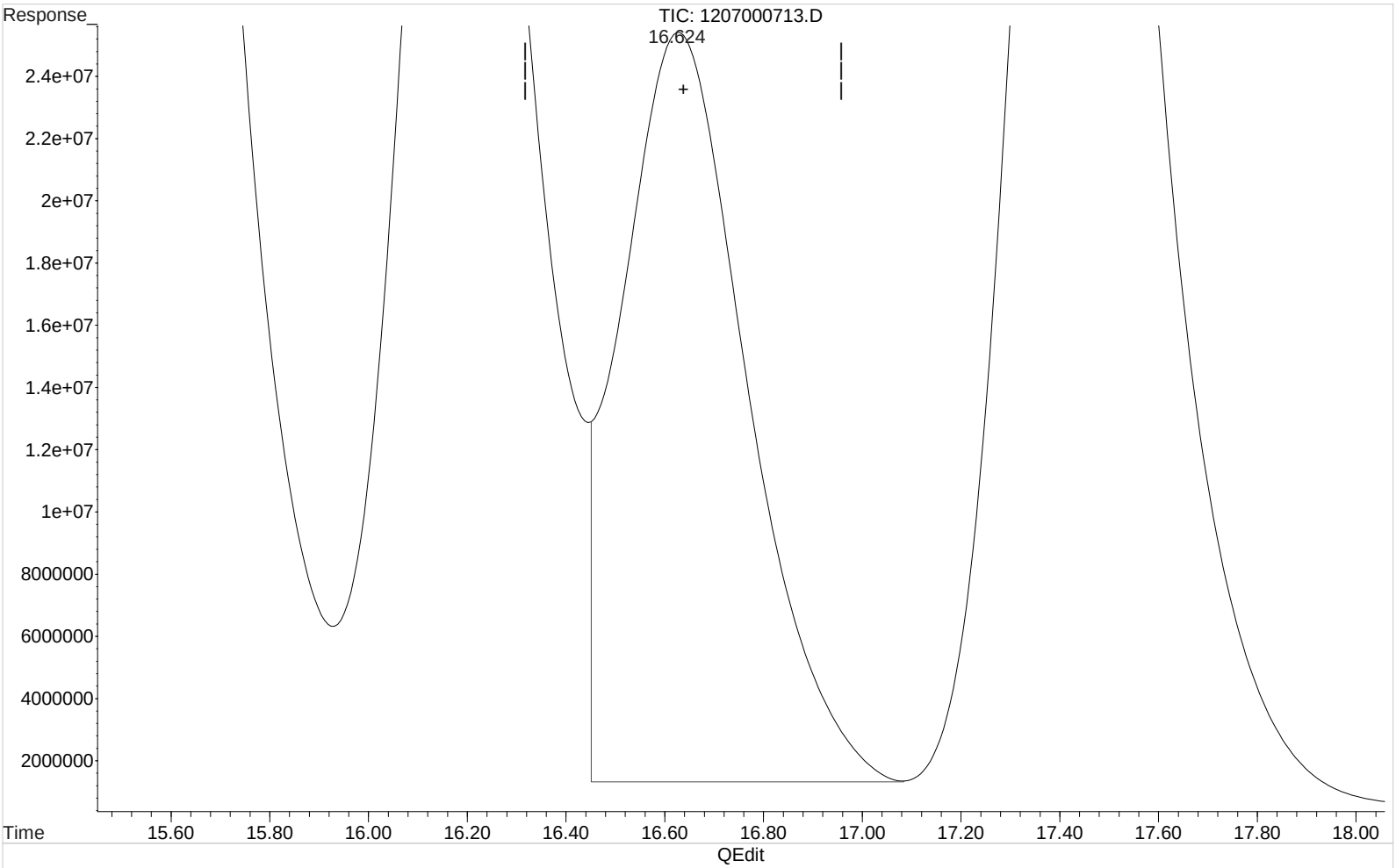
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000713.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:39:06 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:38:20 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.624min 19359.201 ug/L m

response 424970178

Manual Integration:

After

Baseline/Shoulder

12/08/16

(+) = Expected Retention Time

(b) (6)

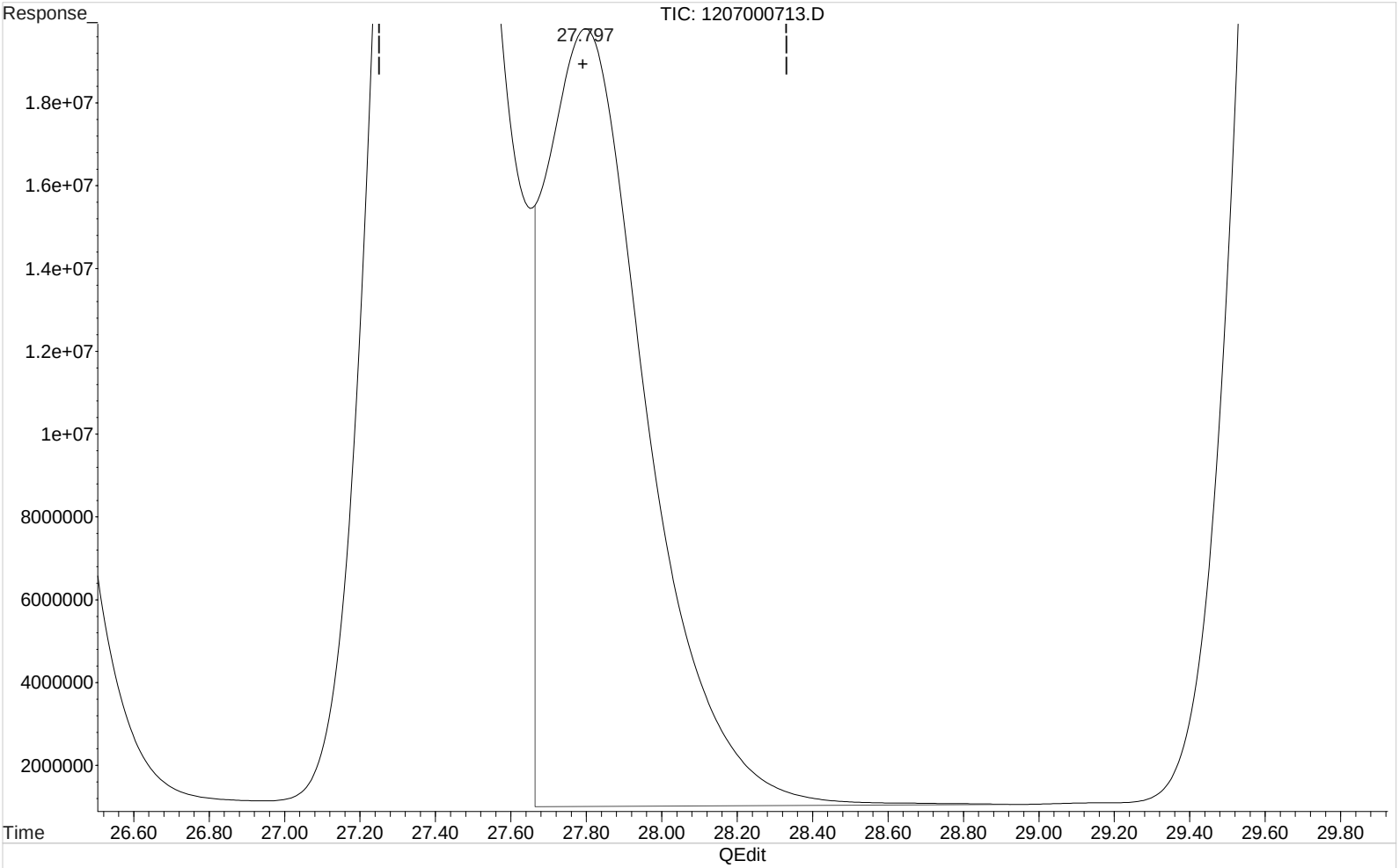
/08/16

/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000713.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:38:32 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:38:20 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.797min 18418.928 ug/L

response 347921609

Manual Integration:

Before

12/08/16

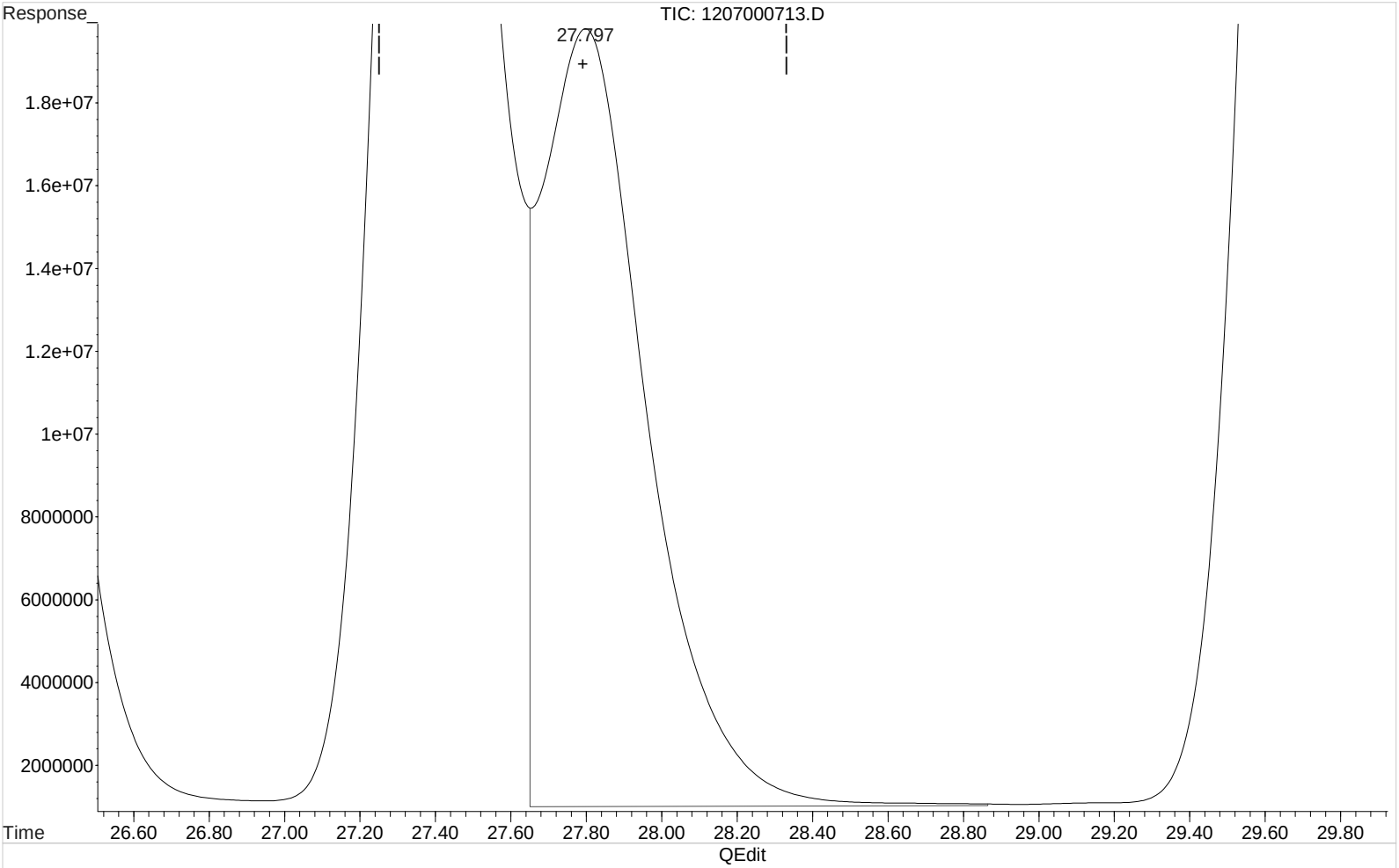
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000713.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:38:32 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:38:20 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.797min 19078.177 ug/L m

response 360374404

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000715.D Vial: 13
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:31:00 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:30:11 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.691	470830412	8280.252	ug/L	
Target Compounds						
1) T	Nitroglycerin	16.637	193613600	9287.498	ug/L	m
2) T	PETN	27.778	158765185	9023.071	ug/L	m

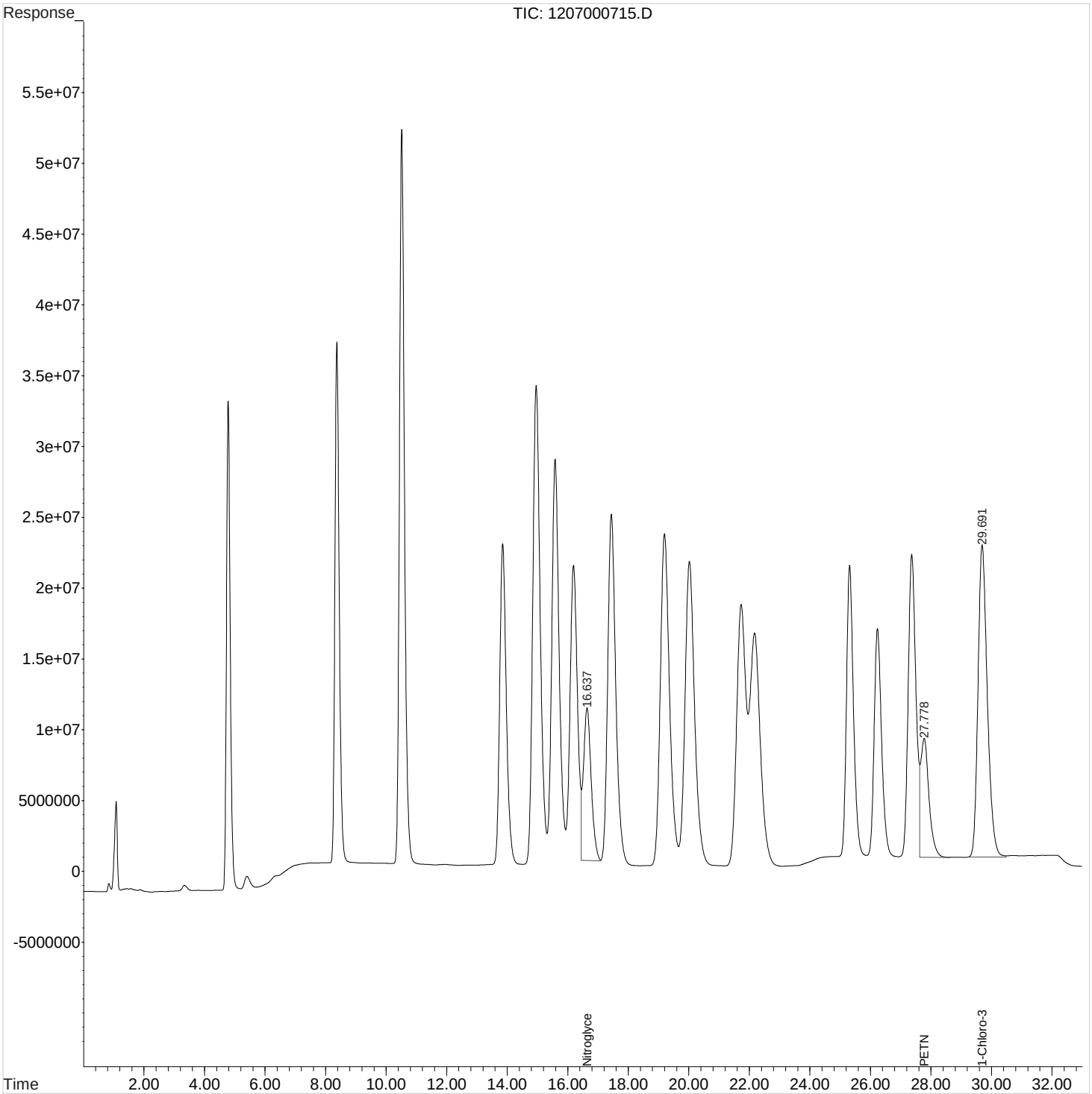
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000715.D Vial: 13
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:31:00 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:30:11 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

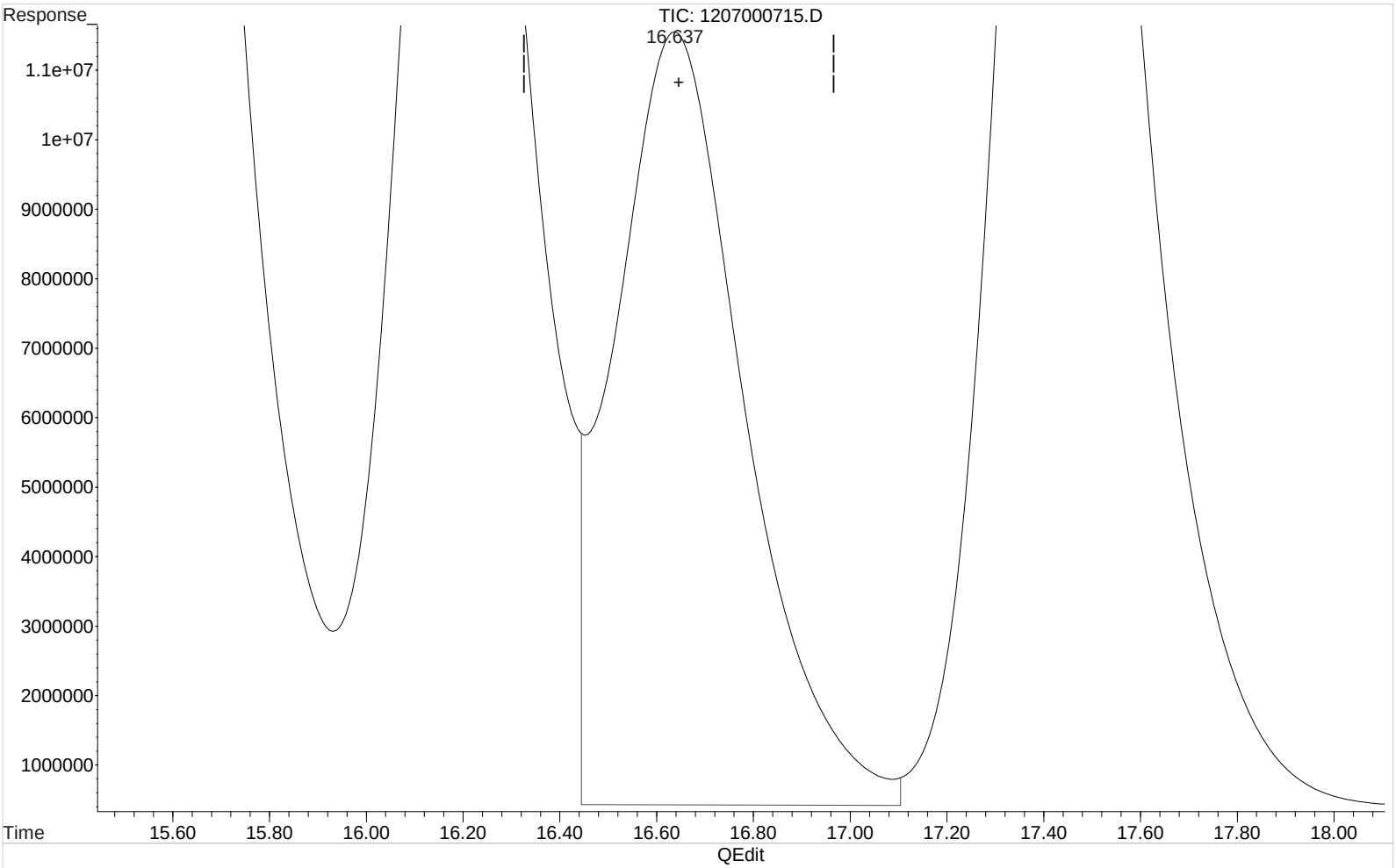


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000715.D Vial: 13
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:30:40 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:30:11 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.637min 9917.726 ug/L

response 206751766

Manual Integration:

Before

12/08/16

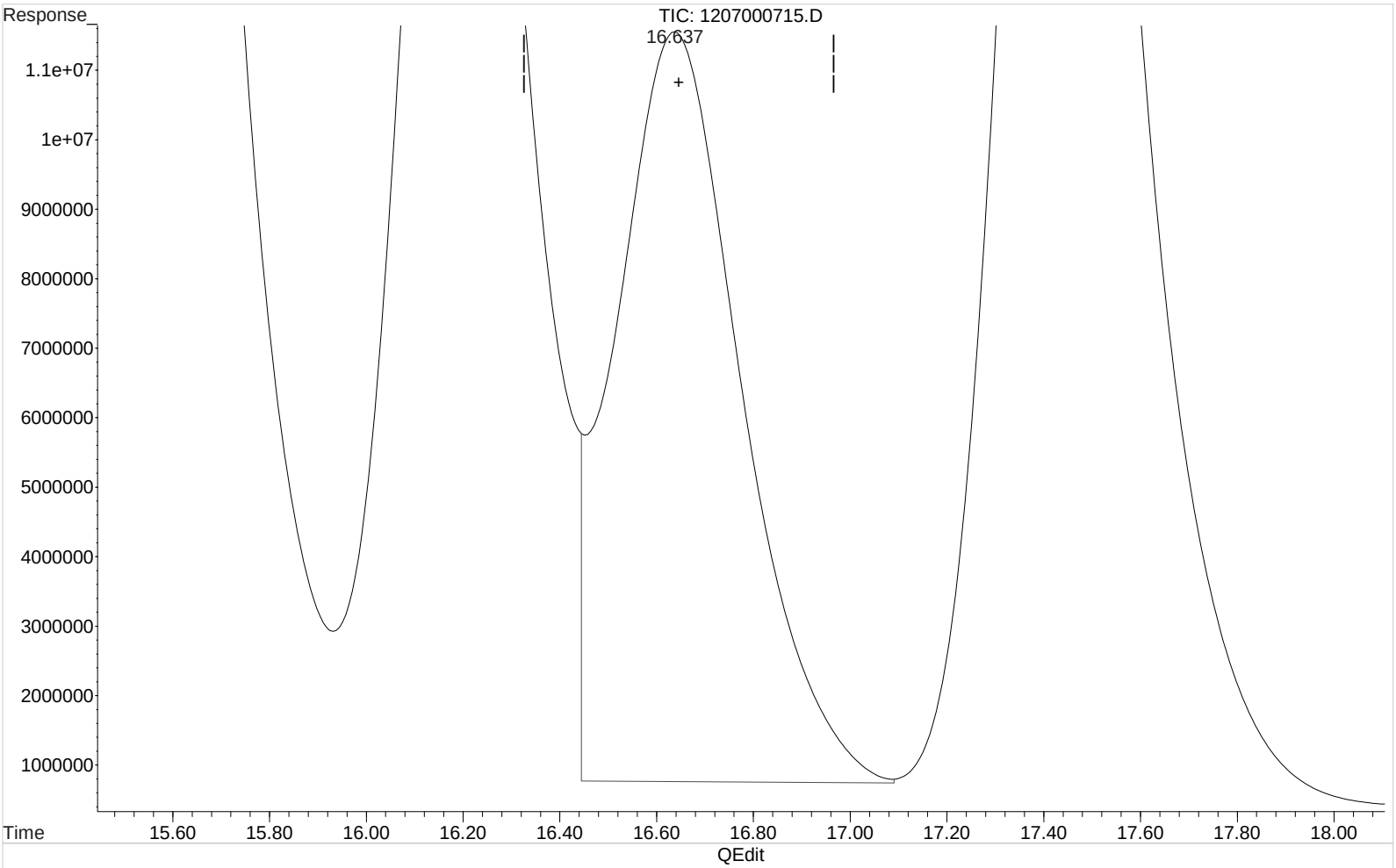
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000715.D Vial: 13
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:30:40 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:30:11 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.637min 9287.498 ug/L m

response 193613600

Manual Integration:

After

Baseline/Shoulder

12/08/16

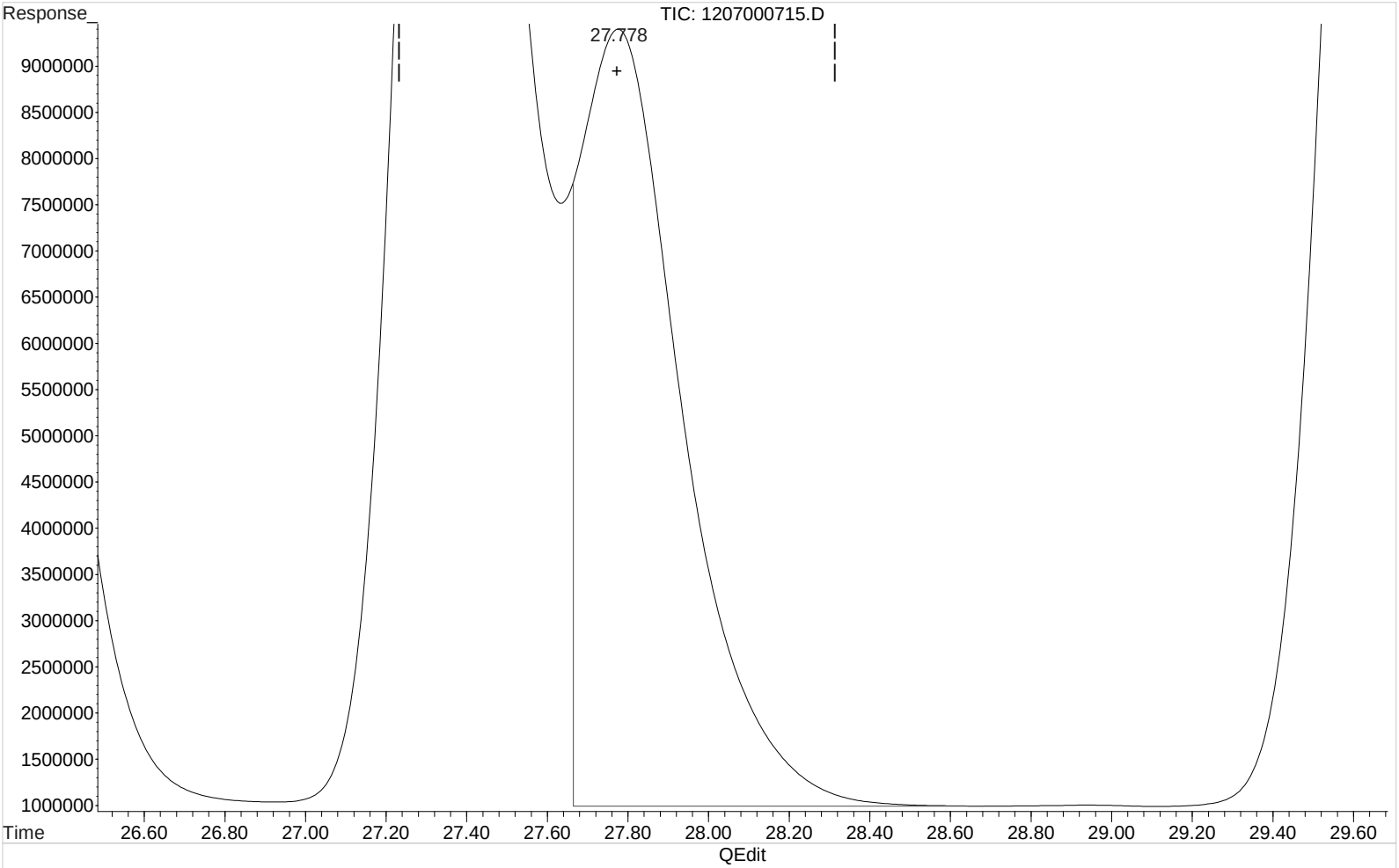
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000715.D Vial: 13
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:30:40 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:30:11 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.778min 8252.774 ug/L

response 145211446

Manual Integration:

Before

12/08/16

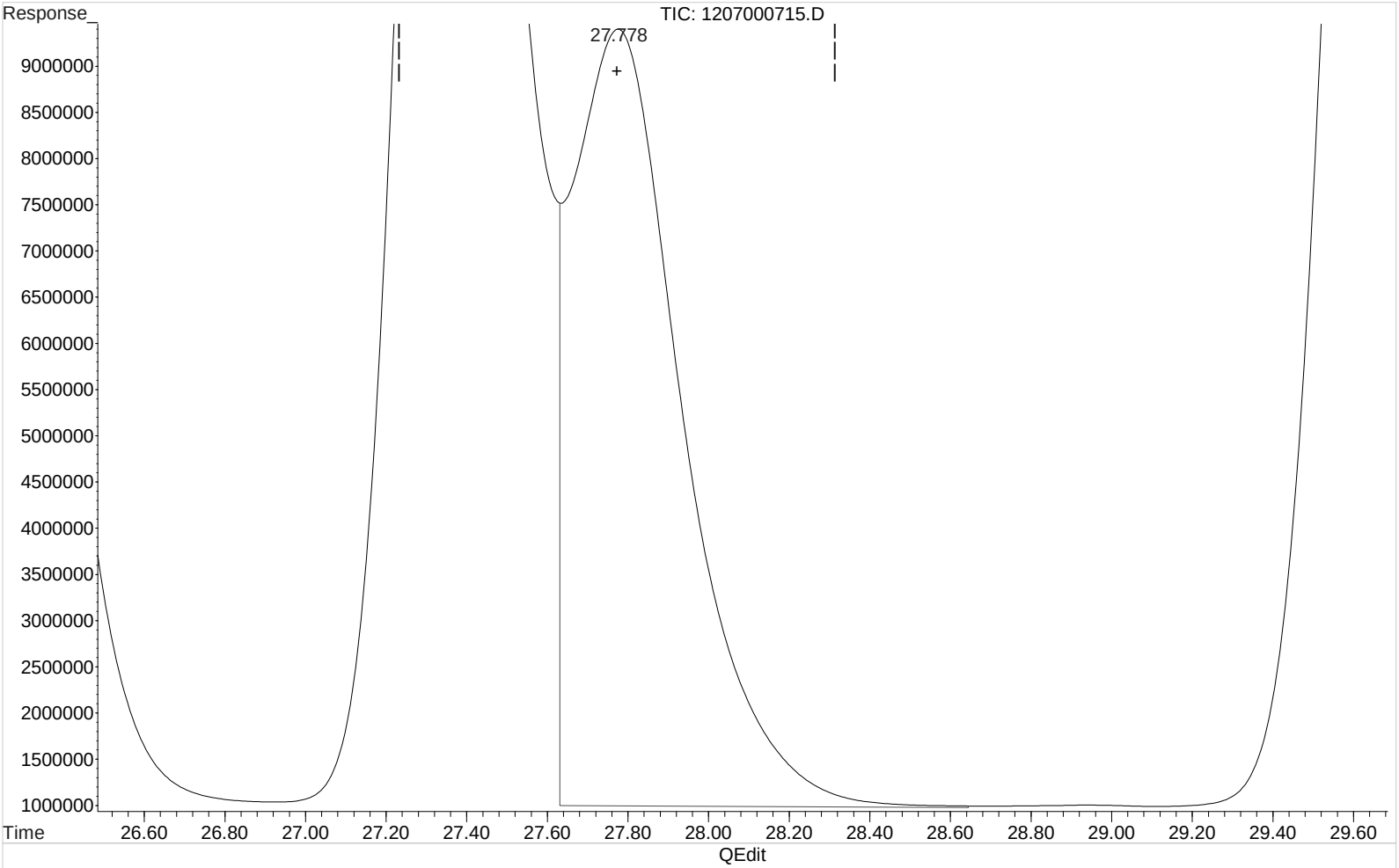
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000715.D Vial: 13
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:30:40 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:30:11 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.778min 9023.071 ug/L m

response 158765185

Manual Integration:

After

Baseline/Shoulder

12/08/16

(+) = Expected Retention Time

Date: 2/9/2017 XC-254 YC-210

ALS Environmental

ICAL Date: 2/9/2017

By: AE

Injection Log

ICAL ID: CAL 15185 (210) CAL 15192 (254)

Stealth ID: N/A **LC8 - Agilent 1260** **LIMS ID:** N/A

2nd Review:

Column: Ultra Aromax SN: 150411353J

Mobile Phases A: MeOH Lot#: 56189 **B:** ACN Lot#: 56207 **C:** H_2O Lot#: 56160 NA

		File Name	Method	Dilution	R	Comments
1	PRIMER	0209000101	8330BXC.M	NA		
2	PRIMER	0209000102	8330BXC.M	NA	X	
3	IB	0209000103	8330BXC.M	NA	X	
4	17-OLC-01-09J 20 PPB	0209000104	8330BXC.M	NA	X	
5	17-OLC-01-09I 50 PPB	0209000105	8330BXC.M	NA	X	
6	17-OLC-01-09H 100 PPB	0209000106	8330BXC.M	NA	X	
7	17-OLC-01-09G 200 PPB	0209000107	8330BXC.M	NA	X	
8	17-OLC-01-09F 500 PPB	0209000108	8330BXC.M	NA	X	
9	17-OLC-01-09E 1000 PPB	0209000109	8330BXC.M	NA	X	
10	17-OLC-01-09D 2000 PPB	0209000110	8330BXC.M	NA	X	
11	17-OLC-01-09C 5000 PPB	0209000111	8330BXC.M	NA	X	
12	17-OLC-01-09B 10000 PPB	0209000112	8330BXC.M	NA	X	
13	17-OLC-01-09A 20000 PPB	0209000113	8330BXC.M	NA	X	
14	IB	0209000114	8330BXC.M	NA	X	
15	17-OLC-01-09K 1000 PPB ICV	0209000115	8330BXC.M	NA	X	
16	IB	0209000116	8330BXC.M	NA	X	

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000103.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 15:23:38 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:25:25 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
11) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	
	Target Compounds					
1) T	HMX	0.000	0	N.D.	ug/L	d
2) T	RDX	0.000	0	N.D.	ug/L	
3) T	Nitrobenzene	0.000	0	N.D.	ug/L	
4) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L	d
5) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L	d
6) T	2-NT	0.000	0	N.D.	ug/L	
7) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L	d
8) T	3-NT	0.000	0	N.D.	ug/L	d
9) T	1,3-DNB	0.000	0	N.D.	ug/L	
10) T	4-NT	0.000	0	N.D.	ug/L	
12) T	2,6-DNT	0.000	0	N.D.	ug/L	
13) T	2,4-DNT	0.000	0	N.D.	ug/L	d
14) T	Tetryl	0.000	0	N.D.	ug/L	d
15) T	1,3,5-TNB	0.000	0	N.D.	ug/L	d
16) T	2,4,6-TNT	0.000	0	N.D.	ug/L	d

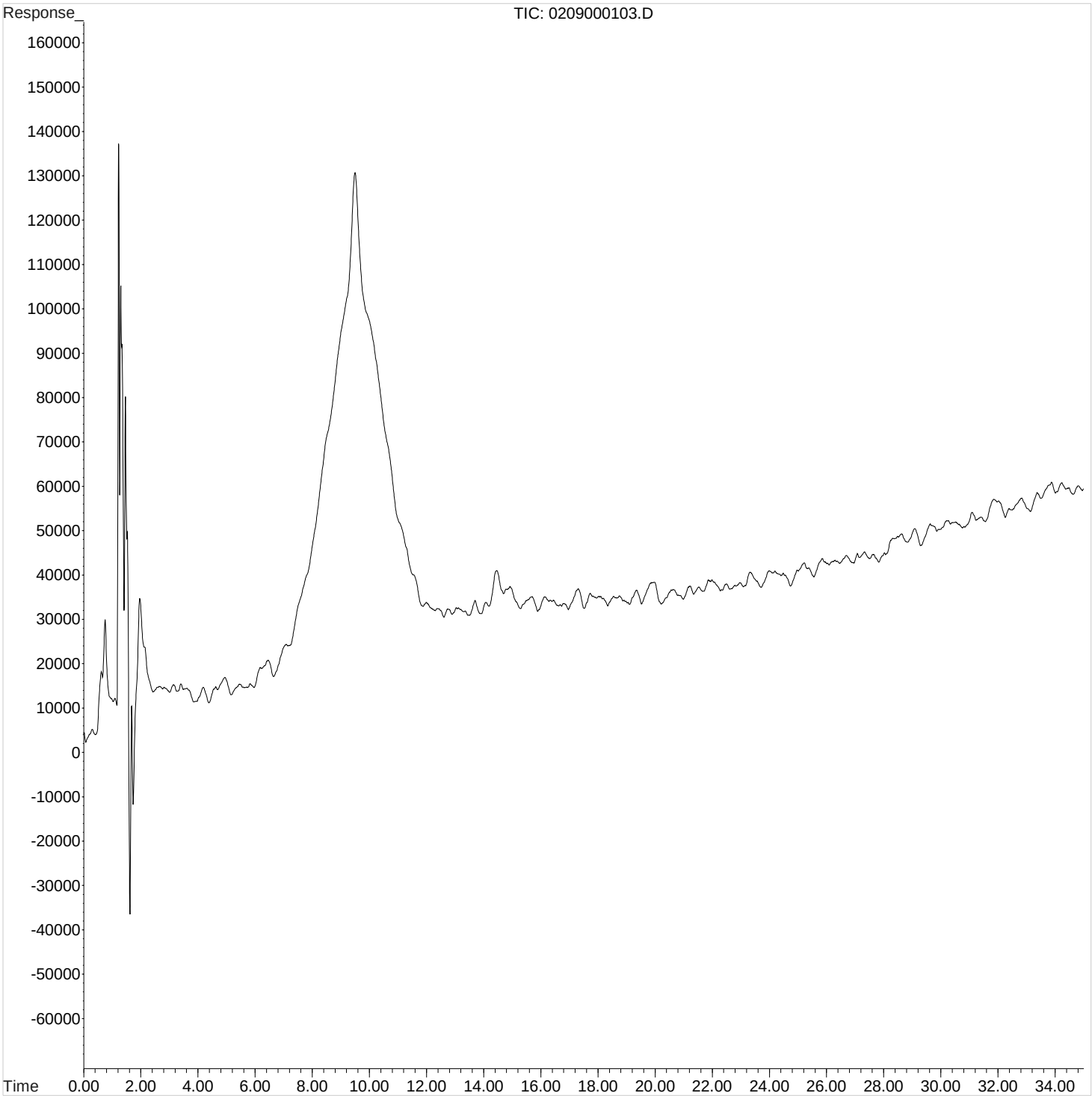
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000103.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 15:23:38 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:25:25 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:16:35 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
11) S	1-Chloro-3-Nitrobenzene	8.147	514214	19.490	ug/L	m
	Target Compounds					
1) T	HMX	2.553	294269	18.763	ug/L	m
2) T	RDX	2.807	452332	24.916	ug/L	m
3) T	Nitrobenzene	4.487	743763	19.991	ug/L	m
4) T	3,5-Dinitroaniline	5.247	964857	20.844	ug/L	m
5) T	4-Amino-2,6-DNT	4.873	652694	20.547	ug/L	m
6) T	2-NT	5.867	473214	20.100	ug/L	m
7) T	2-Amino-4,6-DNT	6.367	889746	21.218	ug/L	m
8) T	3-NT	6.987	566568	20.307	ug/L	m
9) T	1,3-DNB	9.147	1128441	20.188	ug/L	m
10) T	4-NT	7.853	544768	23.816	ug/L	m
12) T	2,6-DNT	8.827	491185	20.081	ug/L	m
13) T	2,4-DNT	14.827	1250552	24.282	ug/L	
14) T	Tetryl	12.993	621836	21.319	ug/L	m
15) T	1,3,5-TNB	19.800	970683	23.433	ug/L	
16) T	2,4,6-TNT	20.793	819690	21.258	ug/L	

(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)

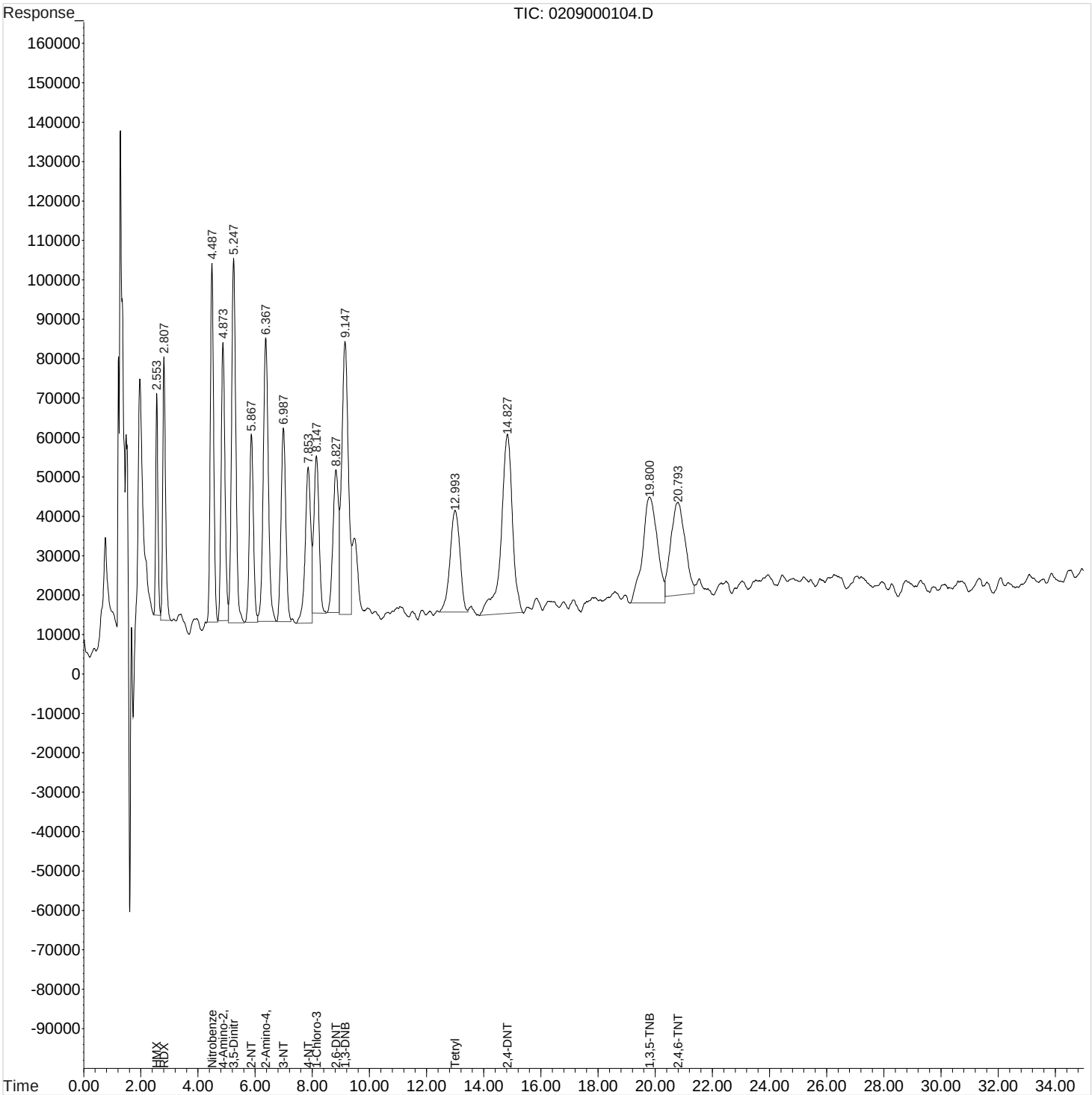
2/13/17

2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:16:35 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

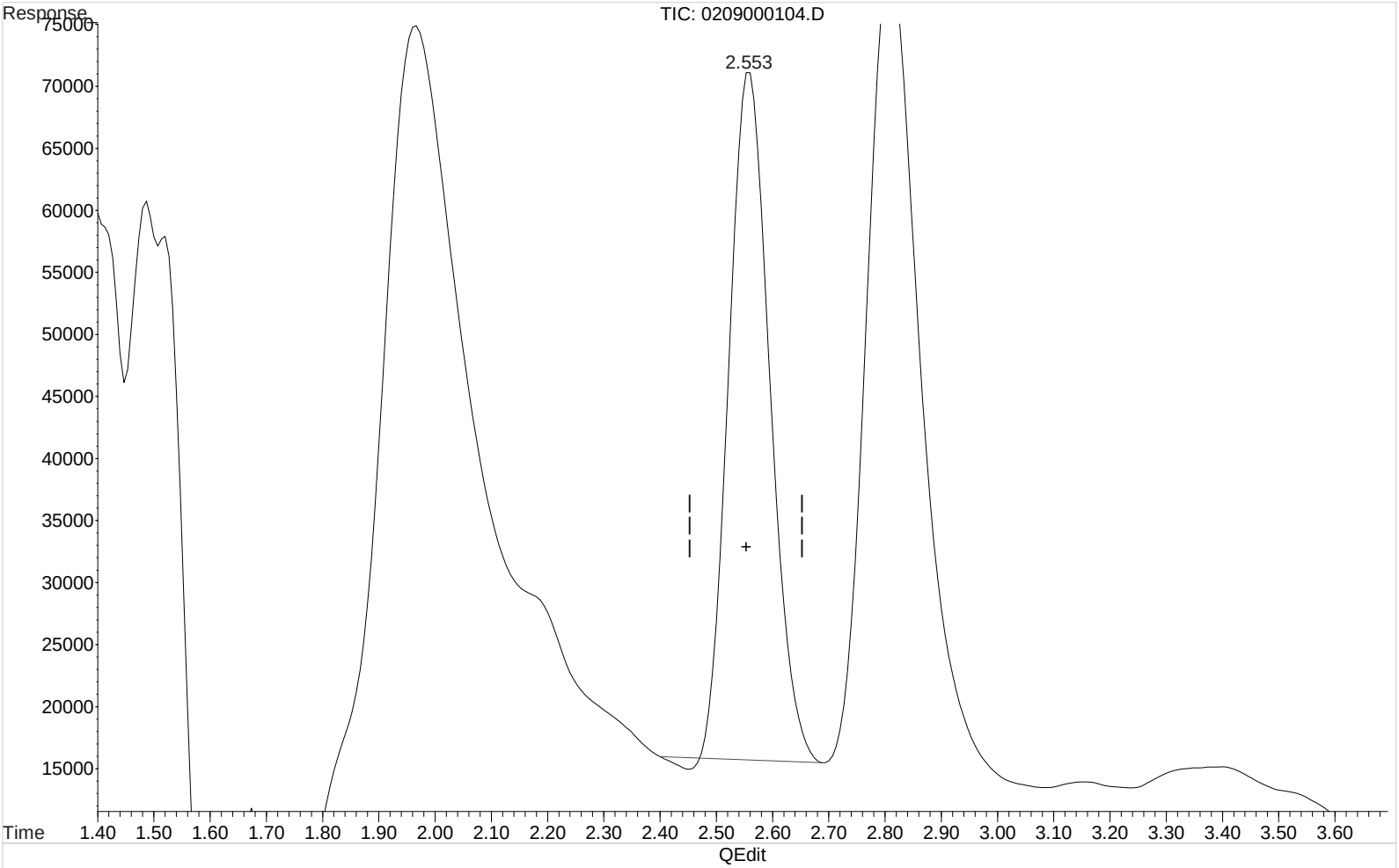


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.553min 17.958 ug/L

response 281642

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

(b) (6)

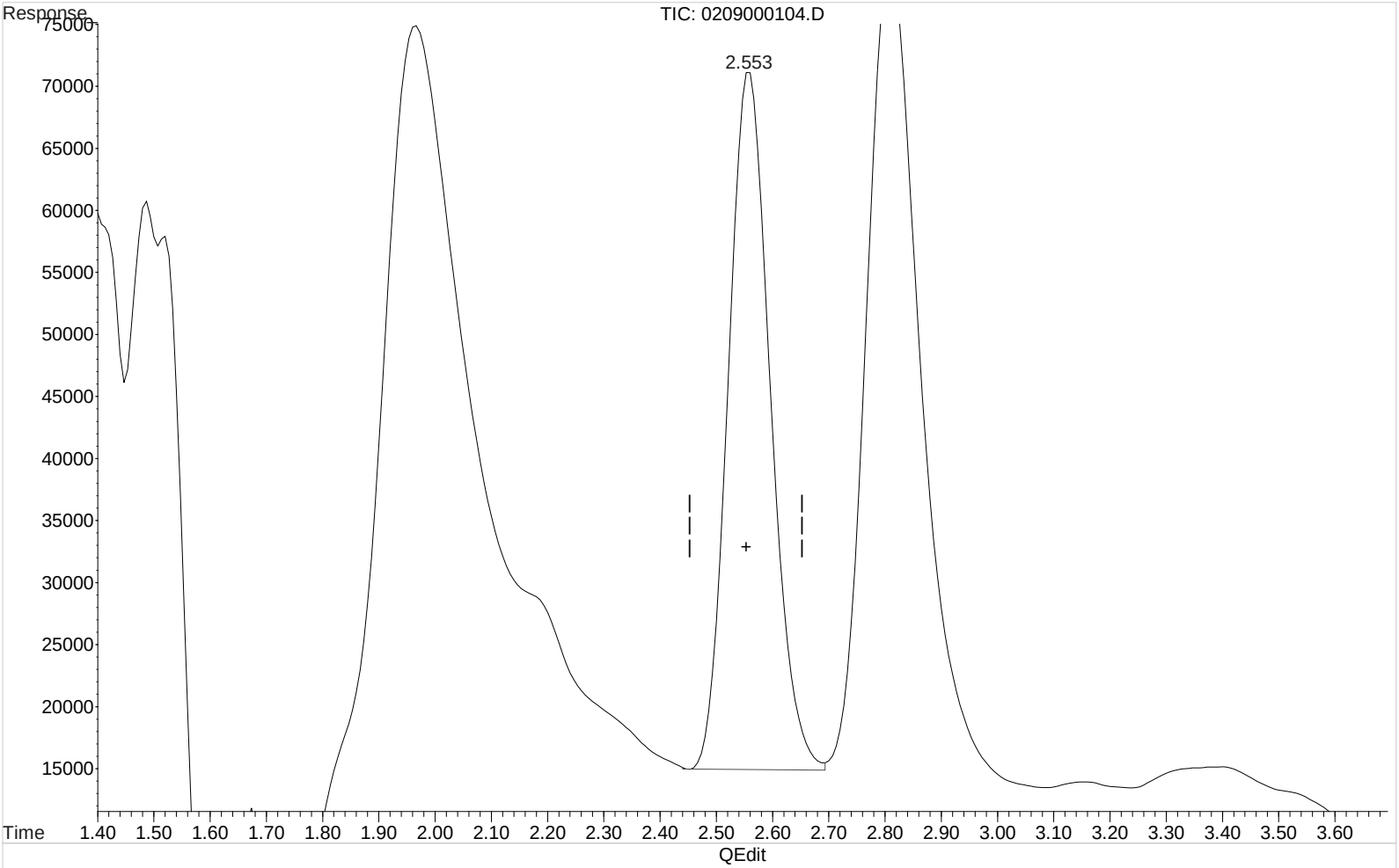
2/13/17

2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(1) HMX (T)

2.553min 18.763 ug/L m

response 294269

Manual Integration:

After

BLC

02/13/17

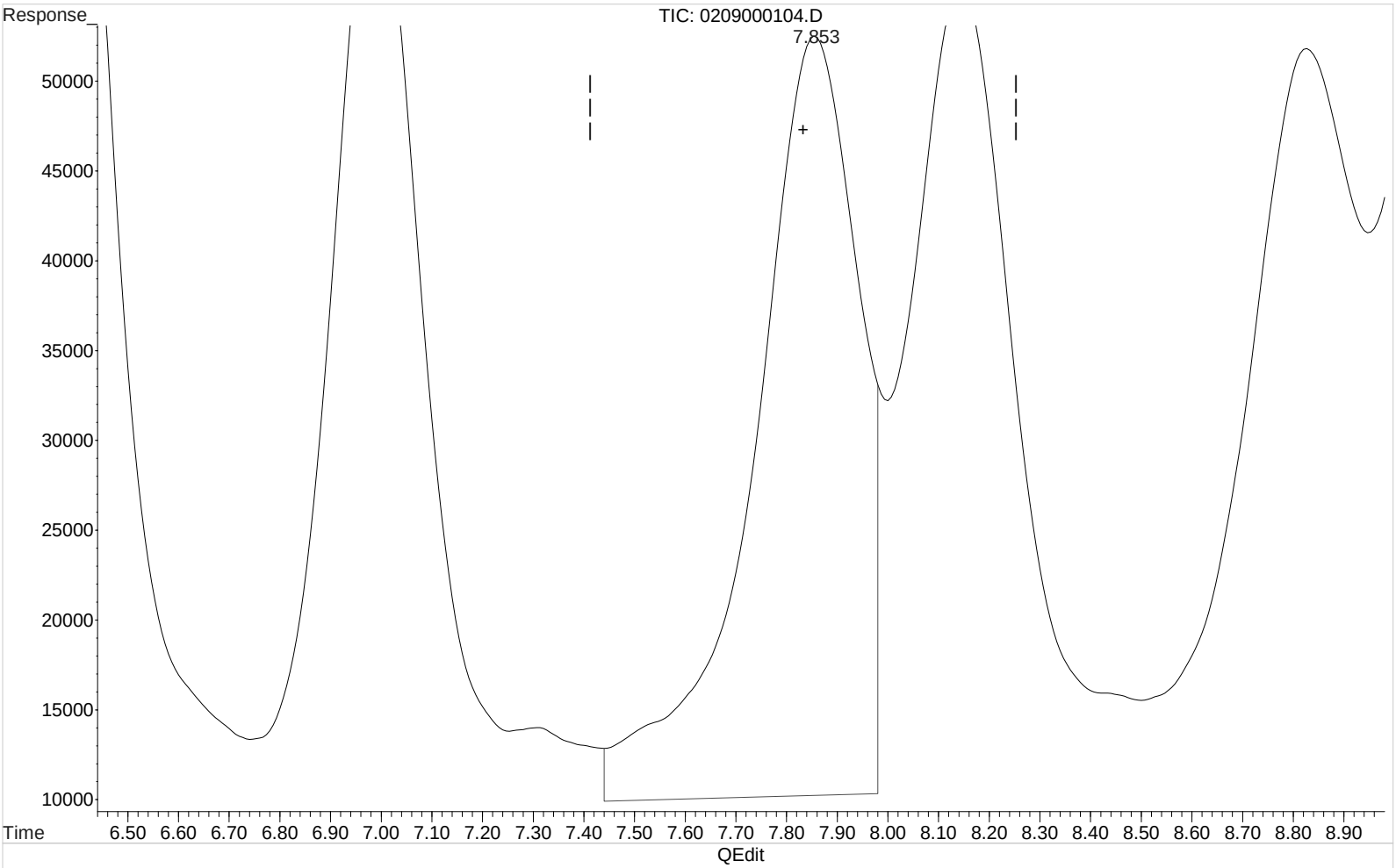
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(10) 4-NT (T)

7.853min 26.678 ug/L

response 610248

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
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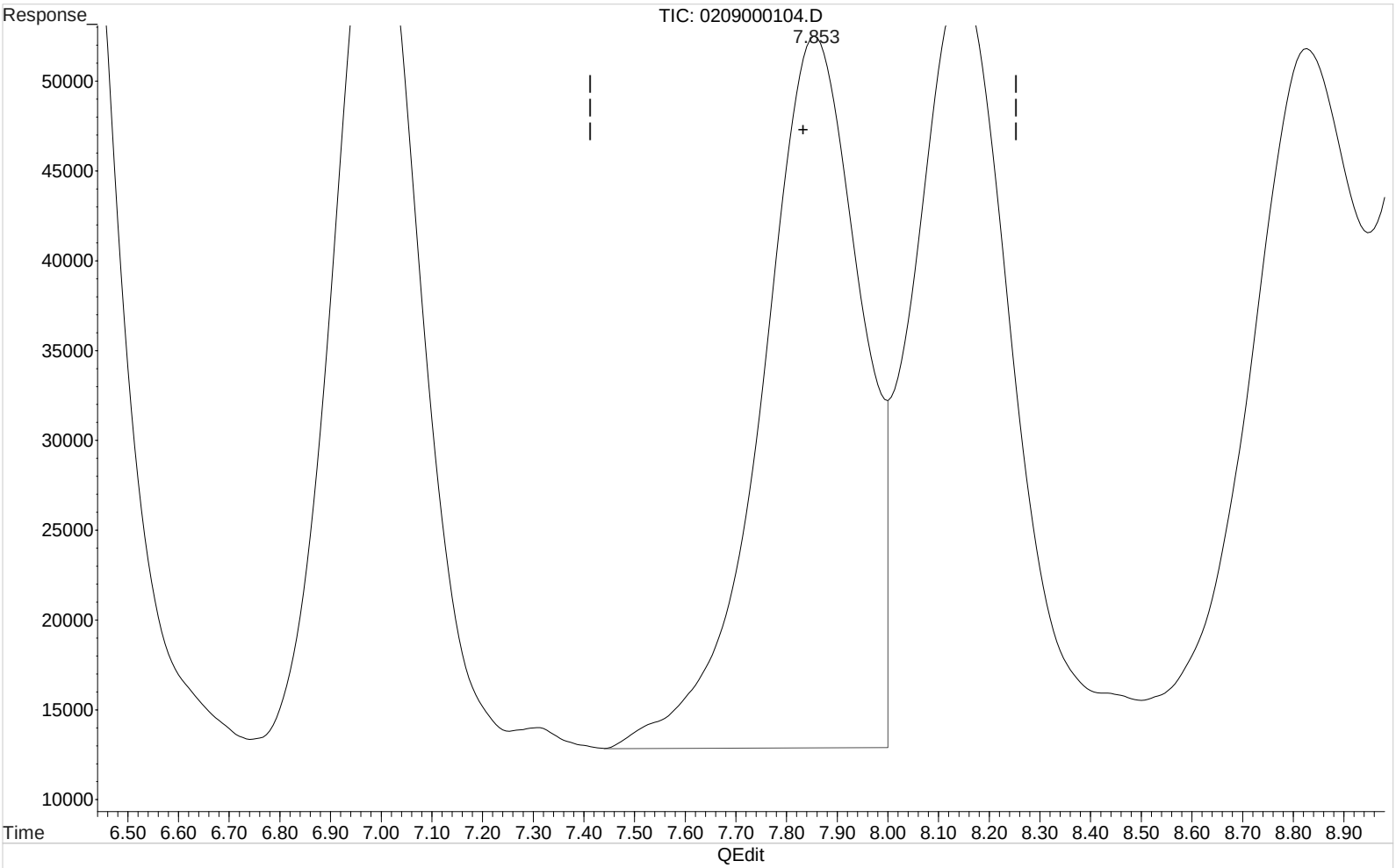
Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(10) 4-NT (T)

7.853min 23.816 ug/L m

response 544768

Manual Integration:

After

BLC

02/13/17

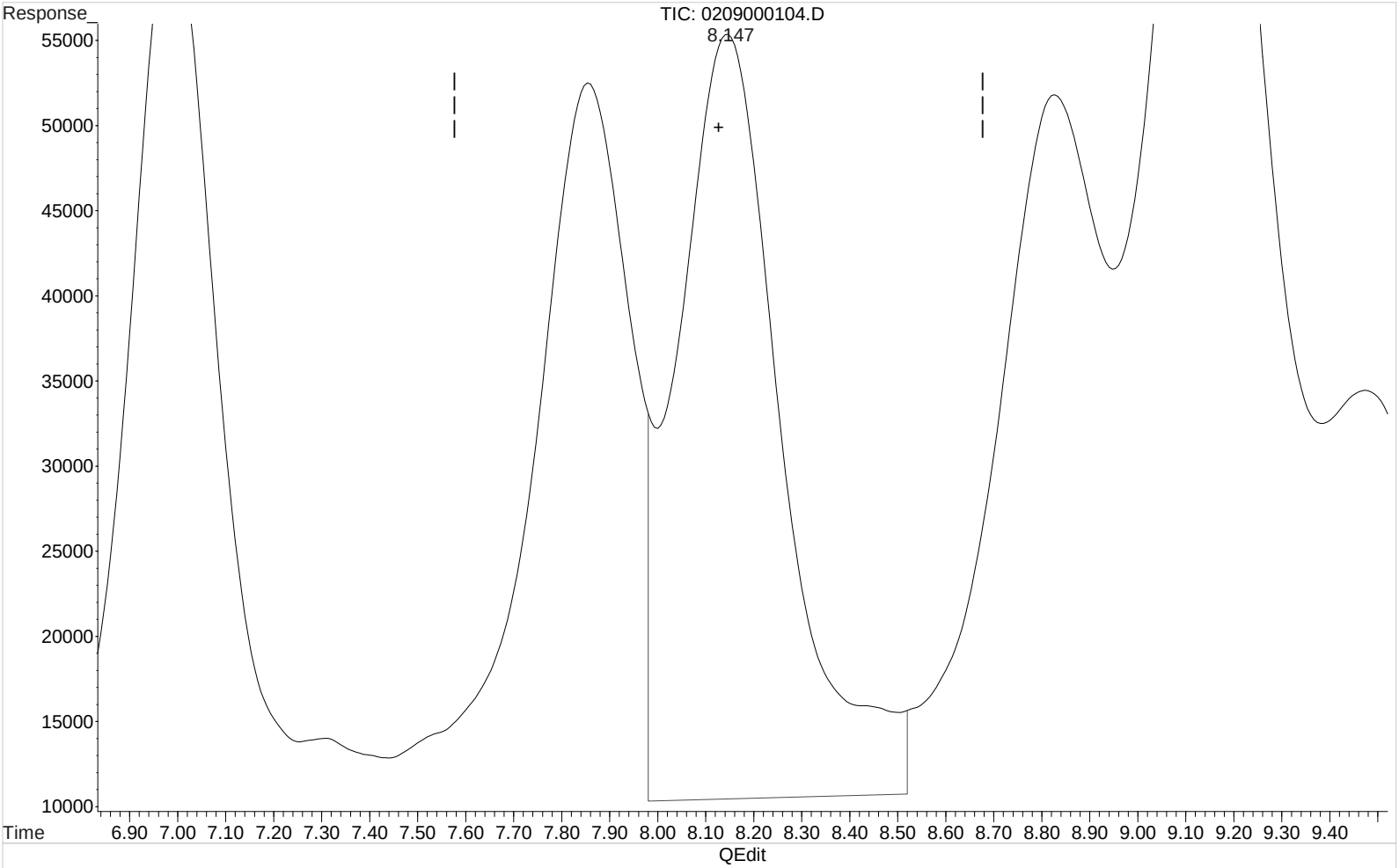
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(11) 1-Chloro-3-Nitrobenzene (S)

8.147min 25.798 ug/L

response 680648

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

(b) (6)

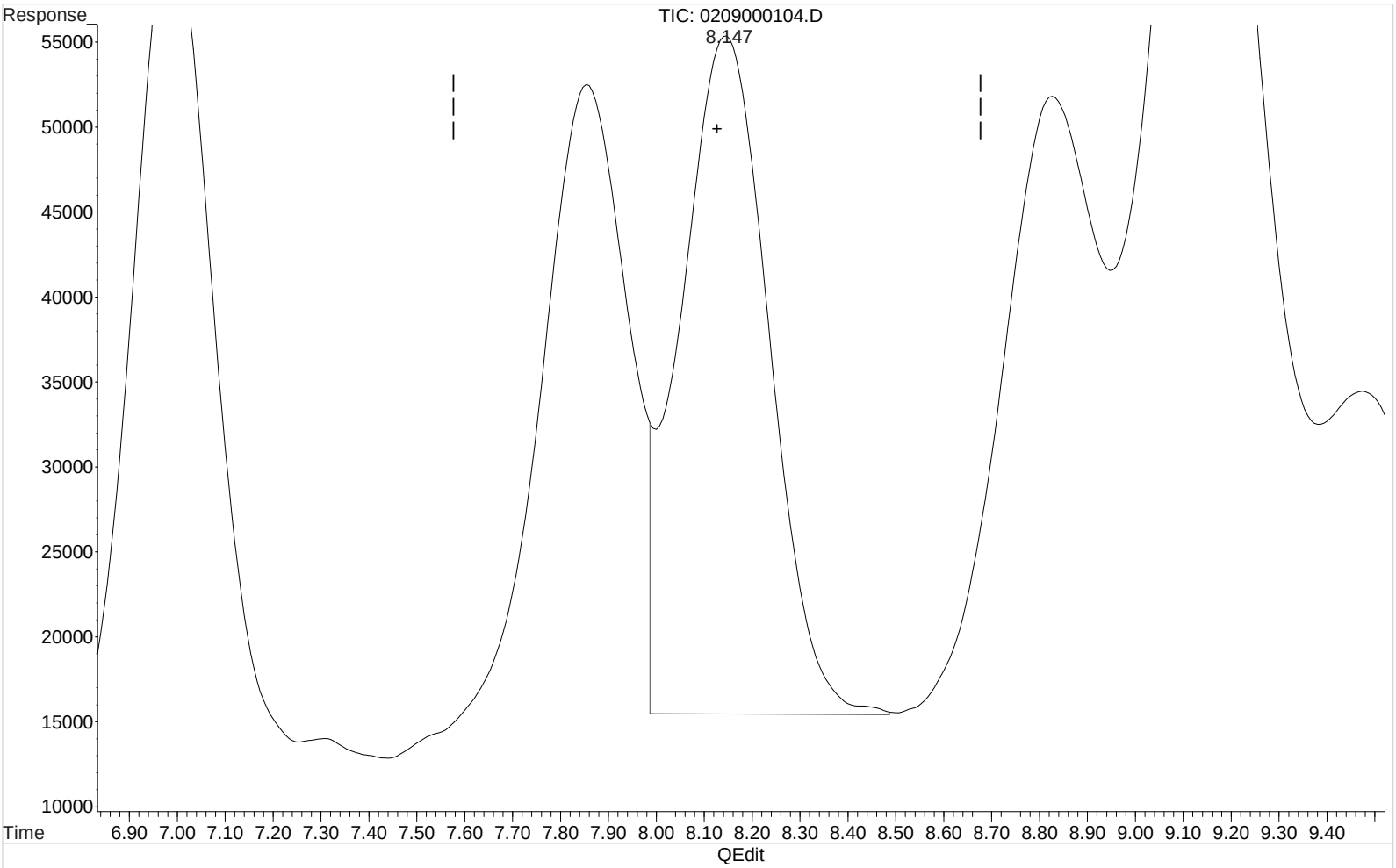
2/13/17

2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(11) 1-Chloro-3-Nitrobenzene (S)

8.147min 19.490 ug/L m

response 514214

Manual Integration:

After

BLC

02/13/17

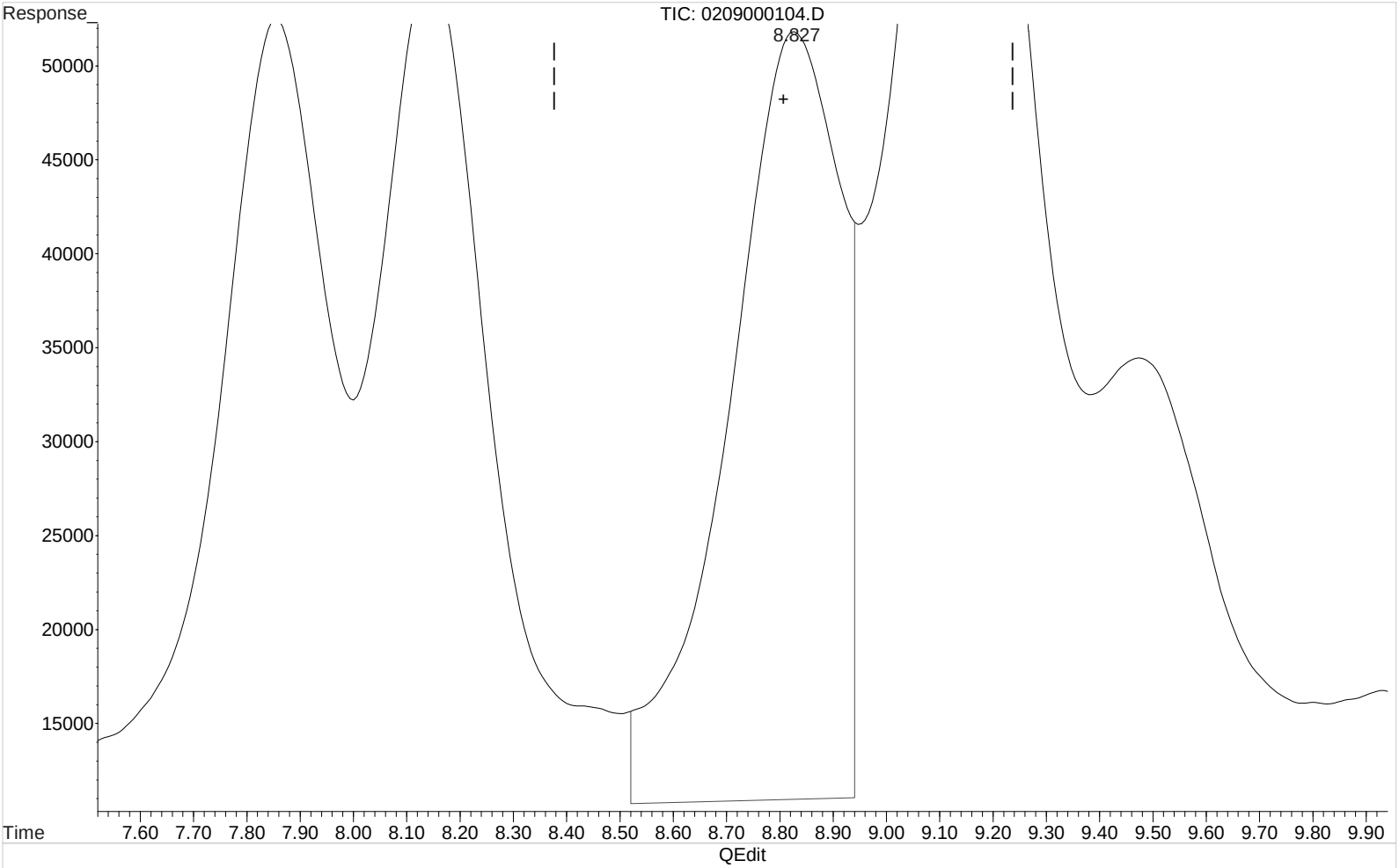
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(12) 2,6-DNT (T)

8.827min 24.500 ug/L

response 599282

Manual Integration:

Before

02/13/17

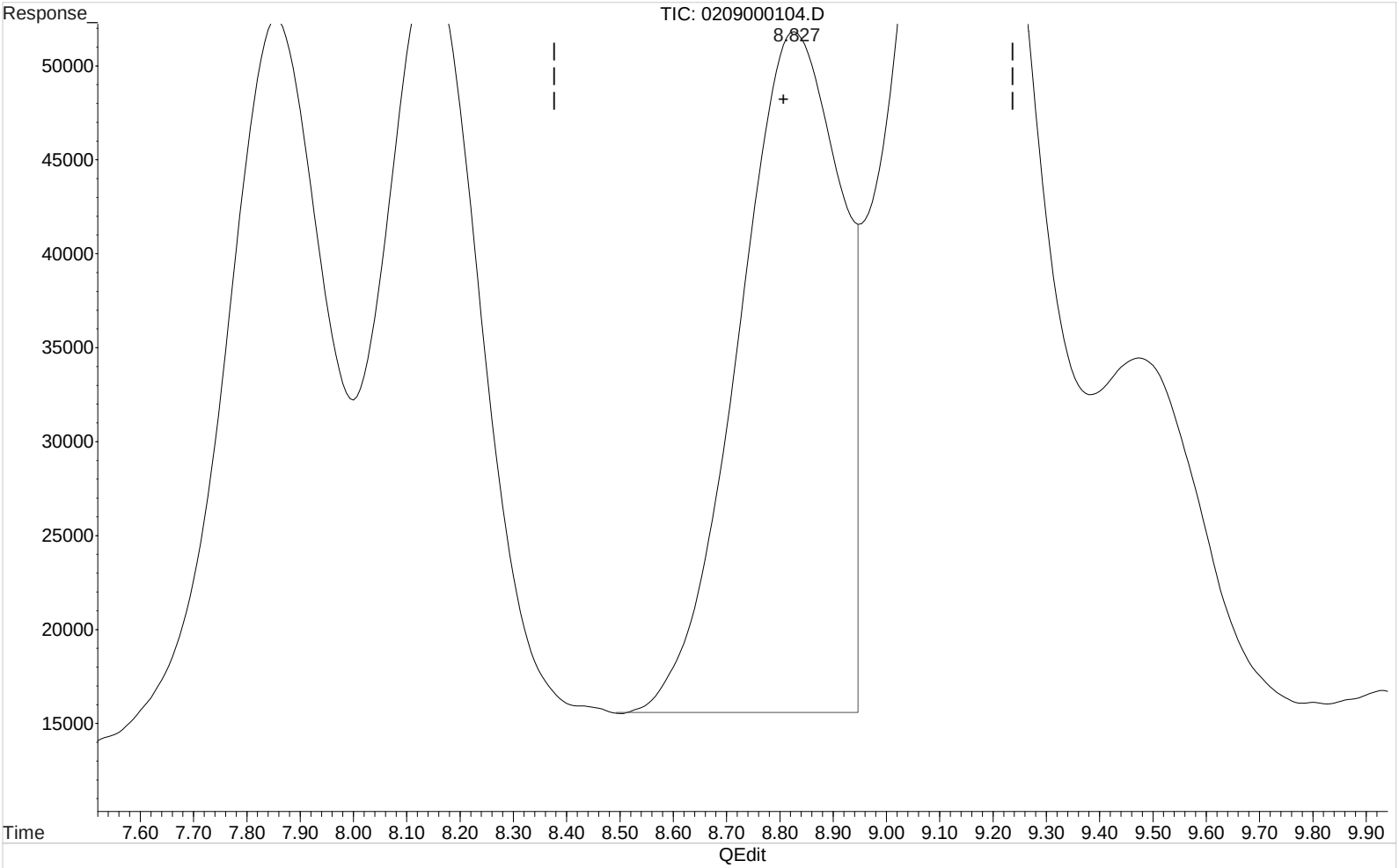
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(12) 2,6-DNT (T)

8.827min 20.081 ug/L m

response 491185

Manual Integration:

After

BLC

02/13/17

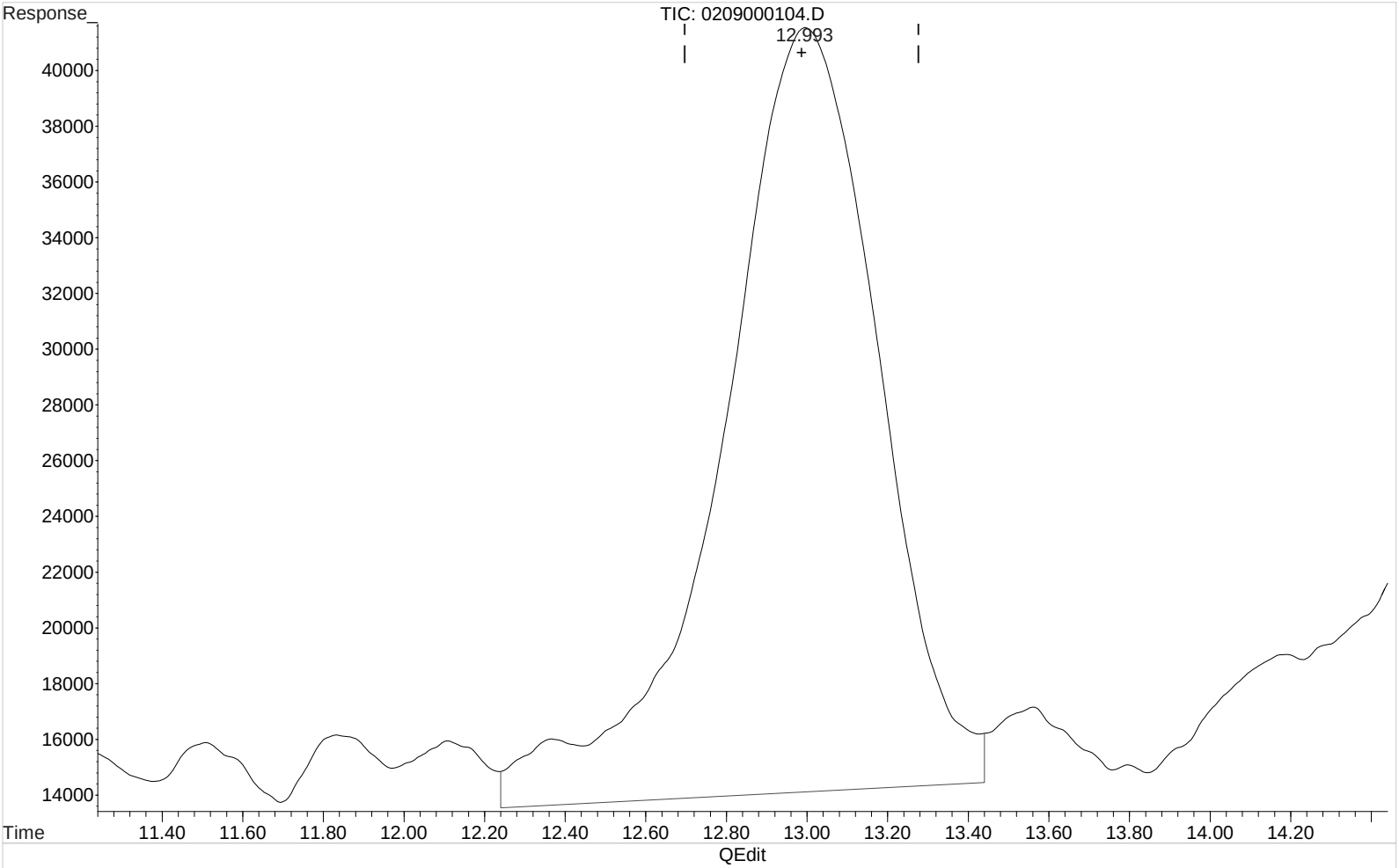
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(14) Tetryl (T)

12.993min 25.507 ug/L

response 743989

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

(b) (6)

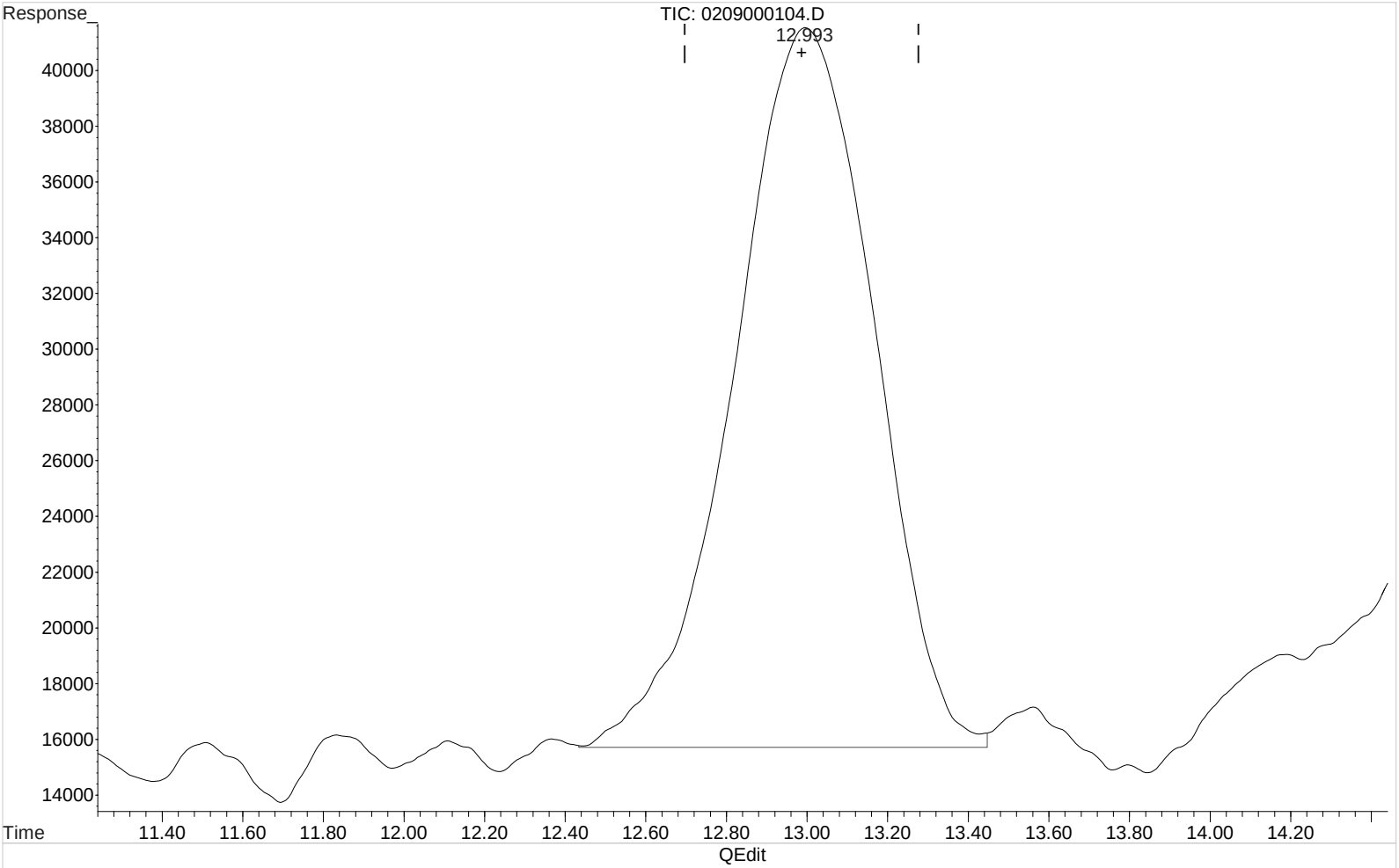
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(14) Tetryl (T)

12.993min 21.319 ug/L m

response 621836

Manual Integration:

After

BLC

02/13/17

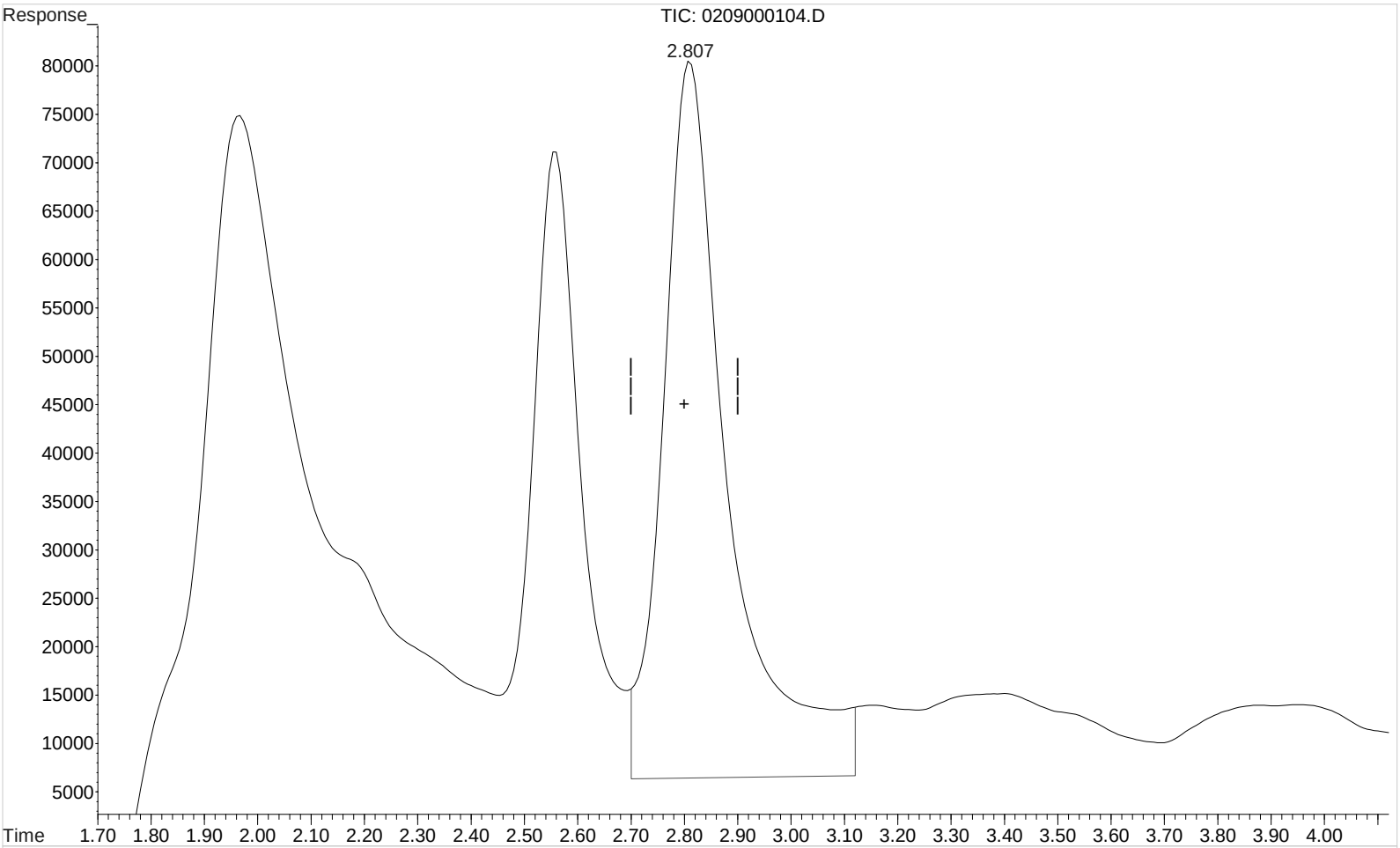
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.807min 34.755 ug/L

response 630962

Manual Integration:

Before

02/13/17

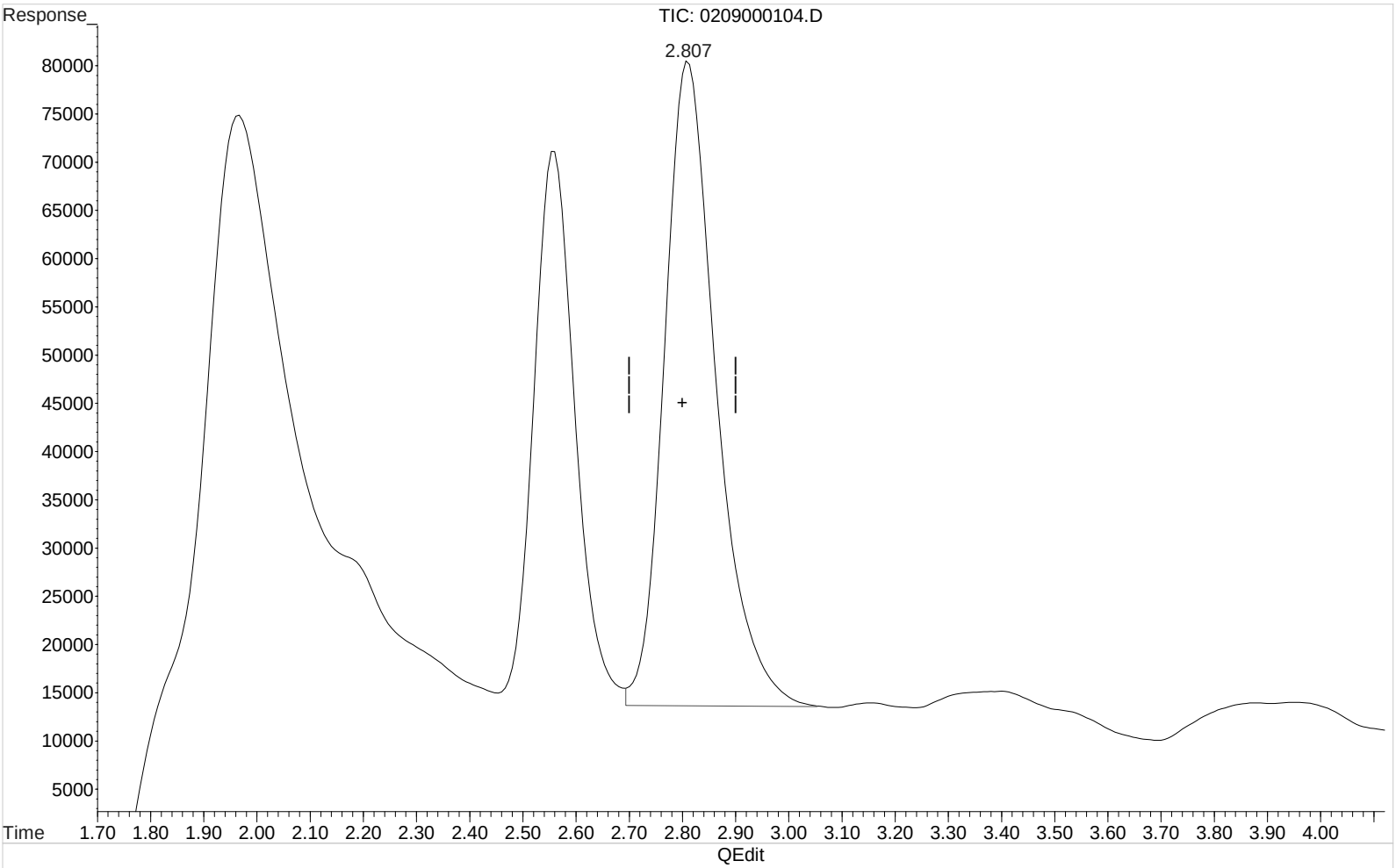
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.807min 24.916 ug/L m

response 452332

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

(b) (6)

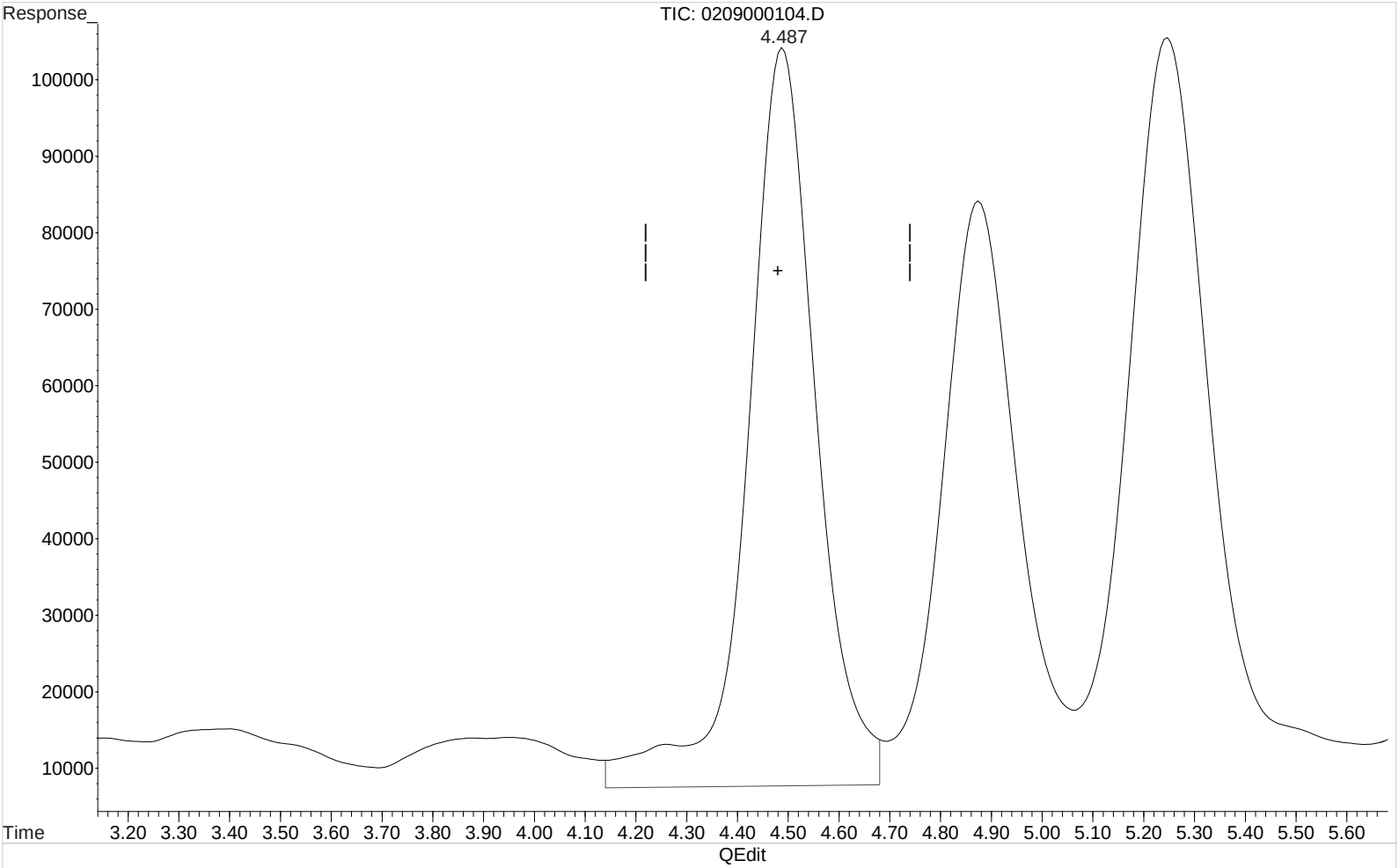
2/13/17

2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(3) Nitrobenzene (T)

4.487min 24.547 ug/L

response 913278

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

(b) (6)

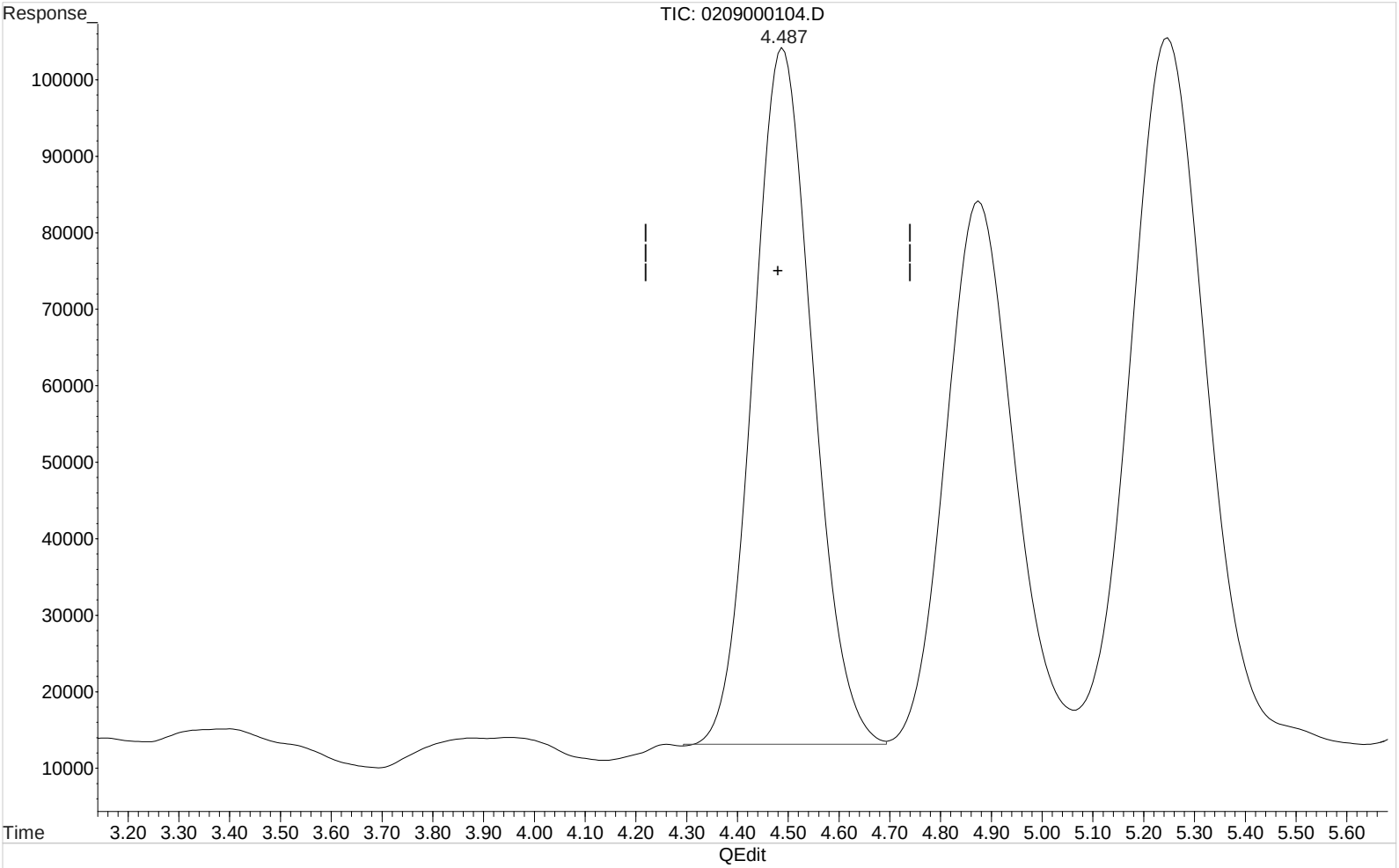
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(3) Nitrobenzene (T)

4.487min 19.991 ug/L m

response 743763

Manual Integration:

After

BLC

02/13/17

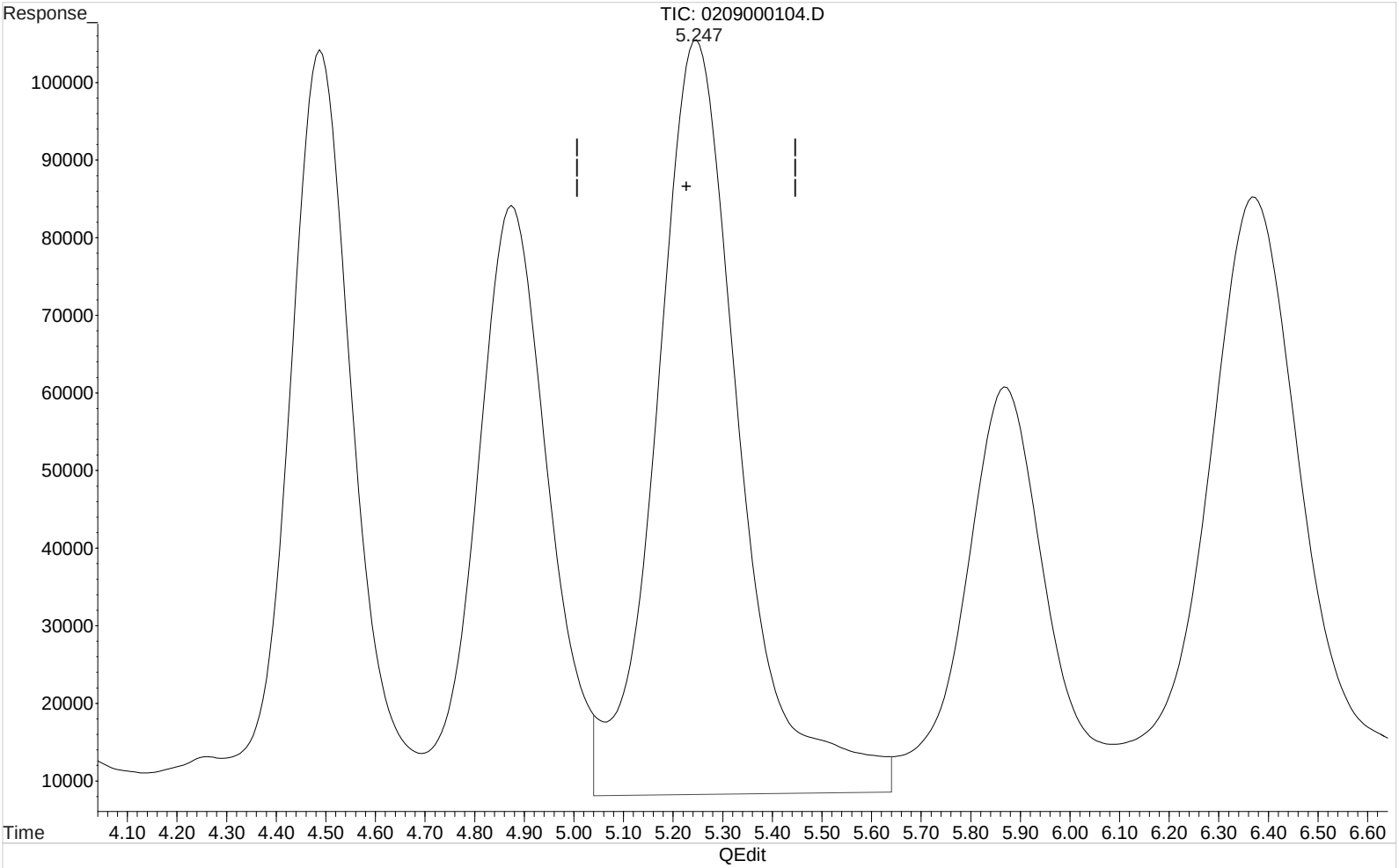
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(4) 3,5-Dinitroaniline (T)

5.247min 24.596 ug/L

response 1138541

Manual Integration:

Before

02/13/17

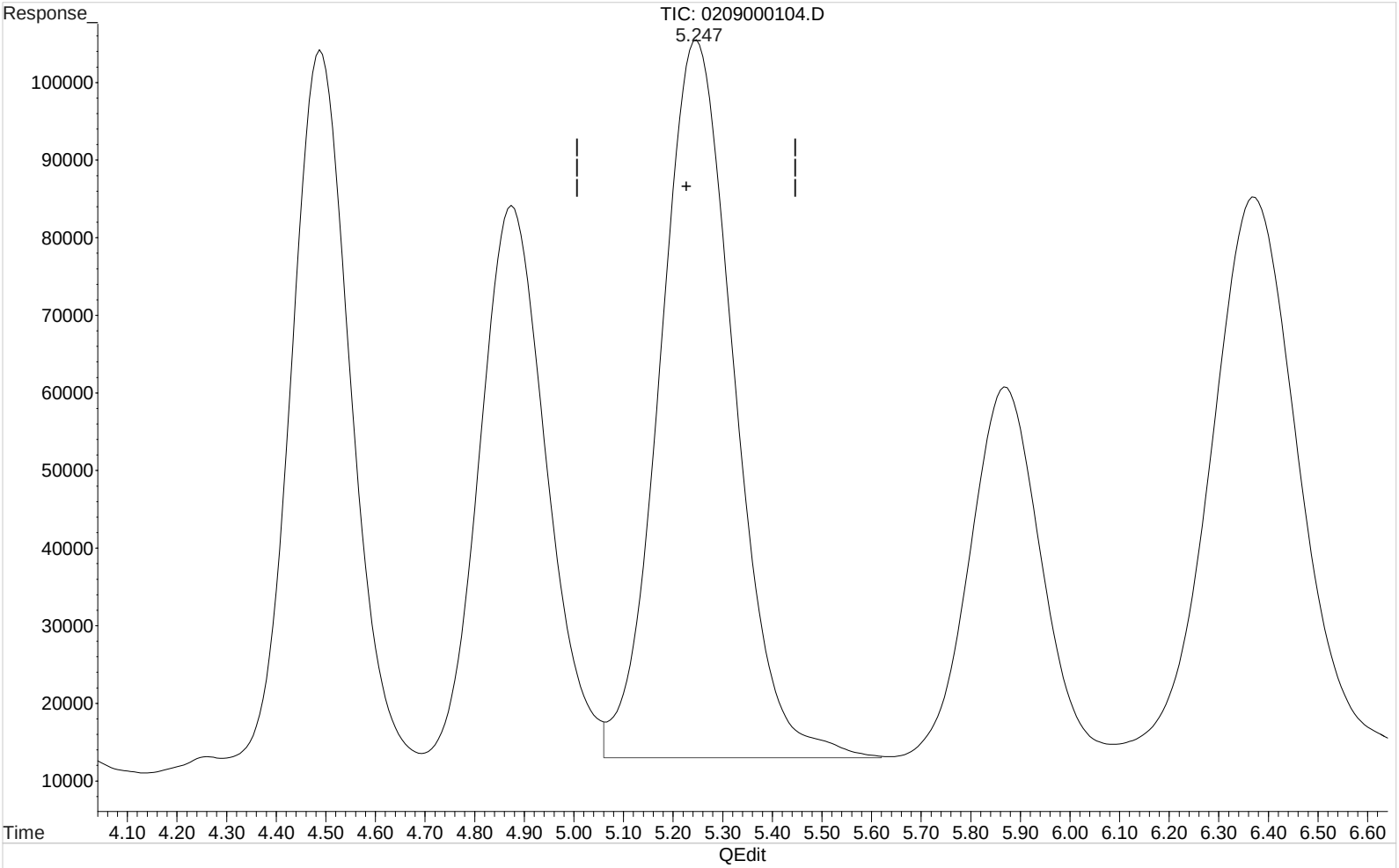
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(4) 3,5-Dinitroaniline (T)

5.247min 20.844 ug/L m

response 964857

Manual Integration:

After

BLC

02/13/17

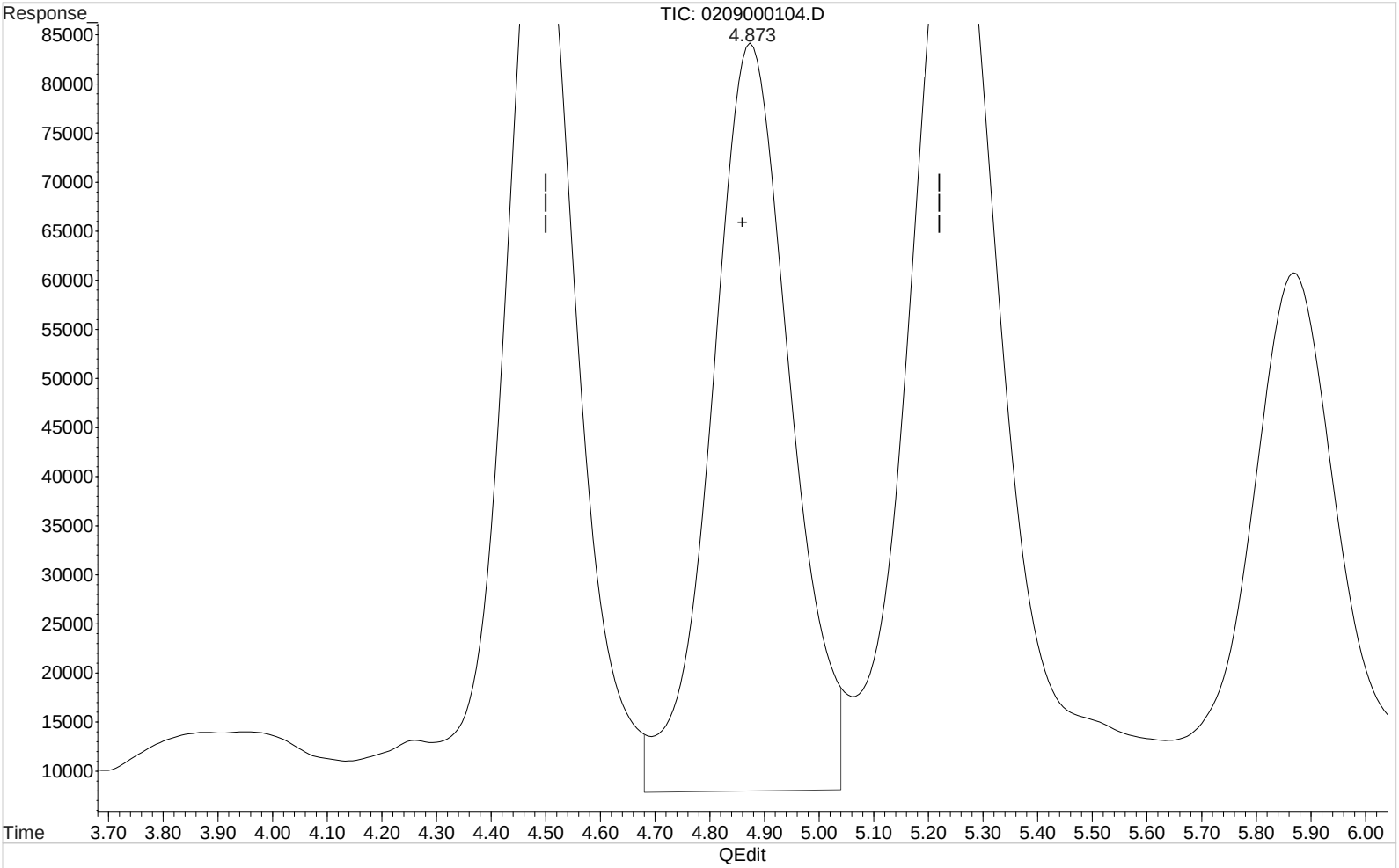
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(5) 4-Amino-2,6-DNT (T)

4.873min 24.112 ug/L

response 765953

Manual Integration:

Before

02/13/17

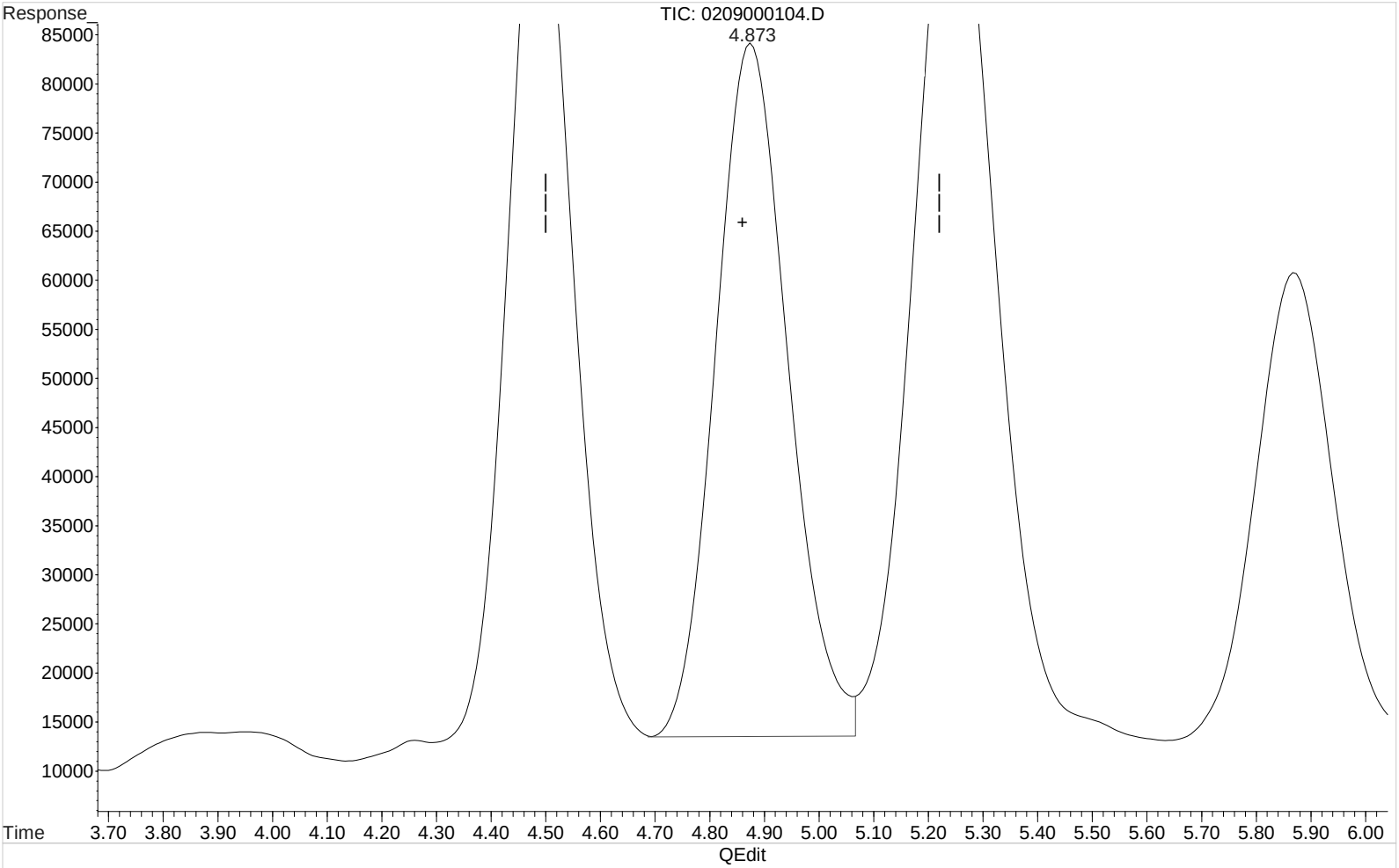
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(5) 4-Amino-2,6-DNT (T)

4.873min 20.547 ug/L m

response 652694

Manual Integration:

After

BLC

02/13/17

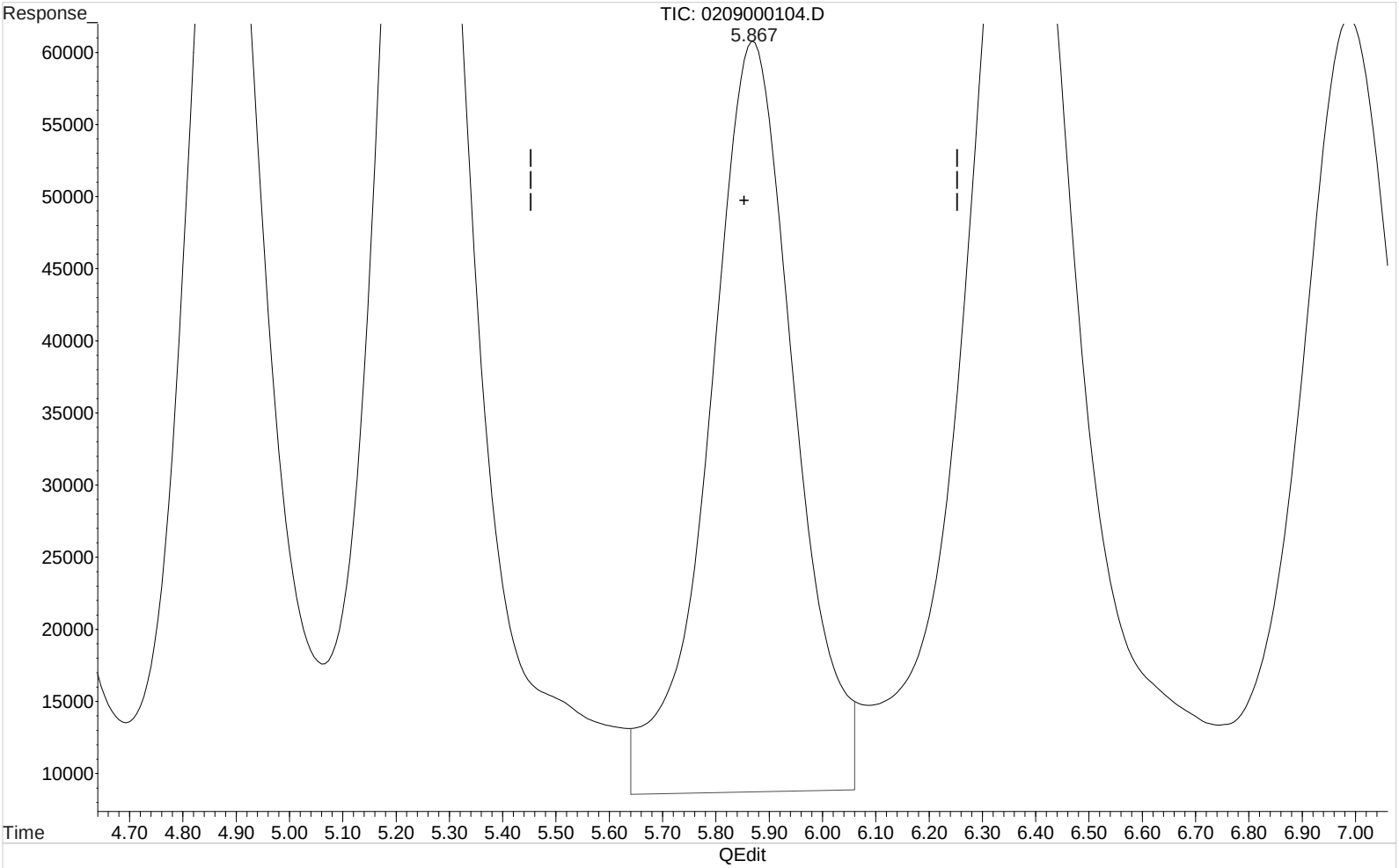
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.867min 24.679 ug/L

response 581023

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

(b) (6)

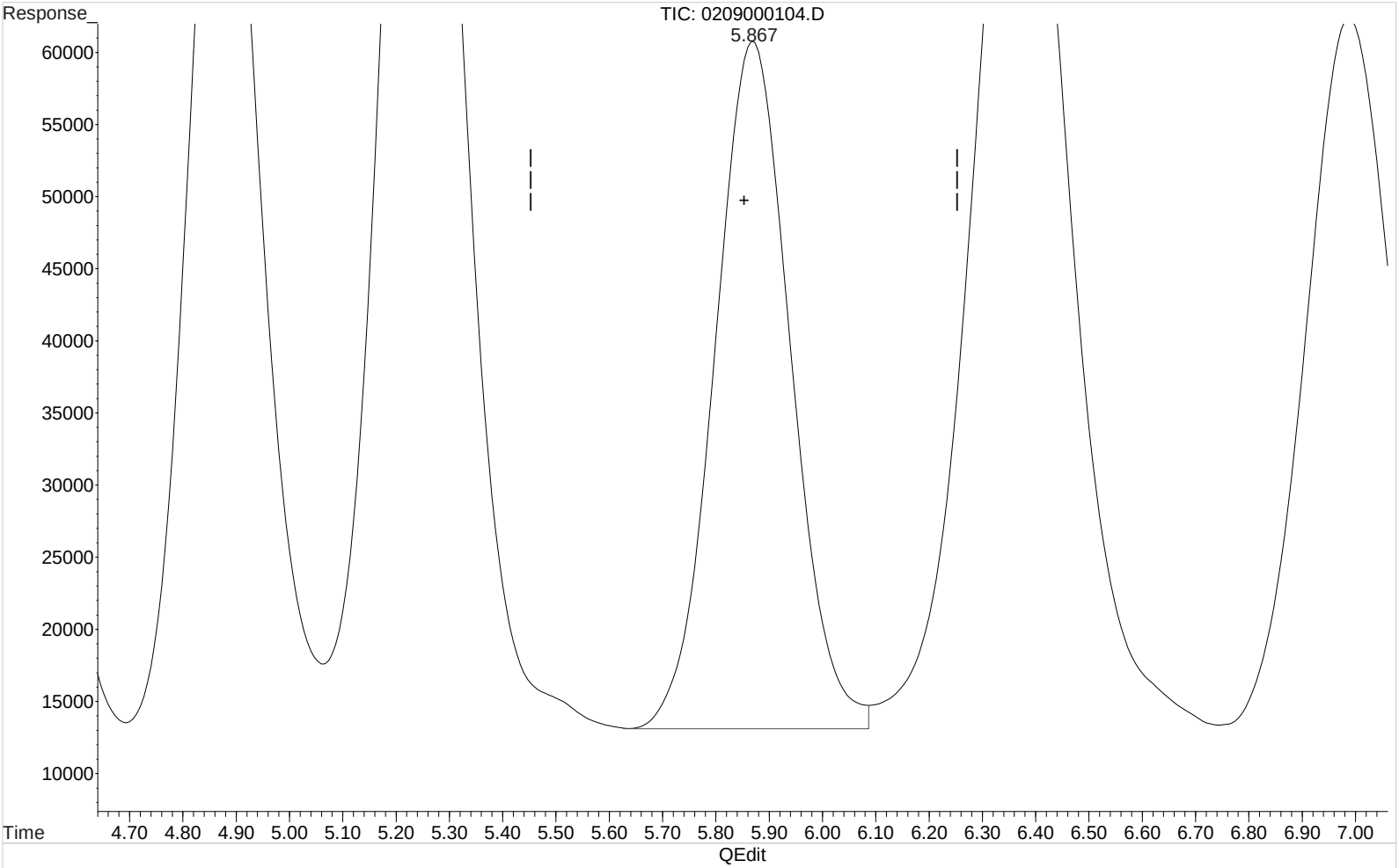
2/13/17

2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.867min 20.100 ug/L m

response 473214

Manual Integration:

After

BLC

02/13/17

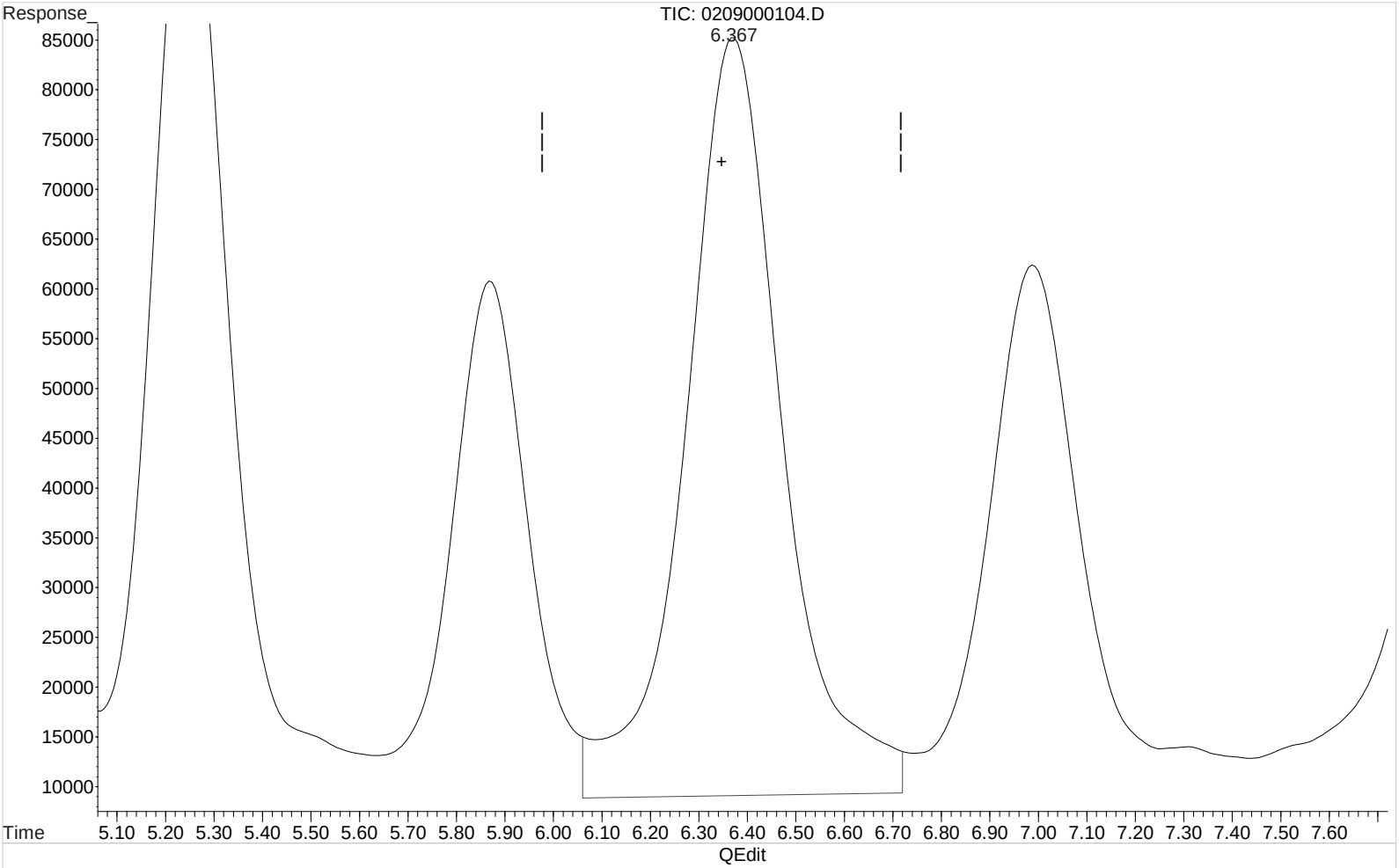
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.367min 25.225 ug/L

response 1057778

Manual Integration:

Before

02/13/17

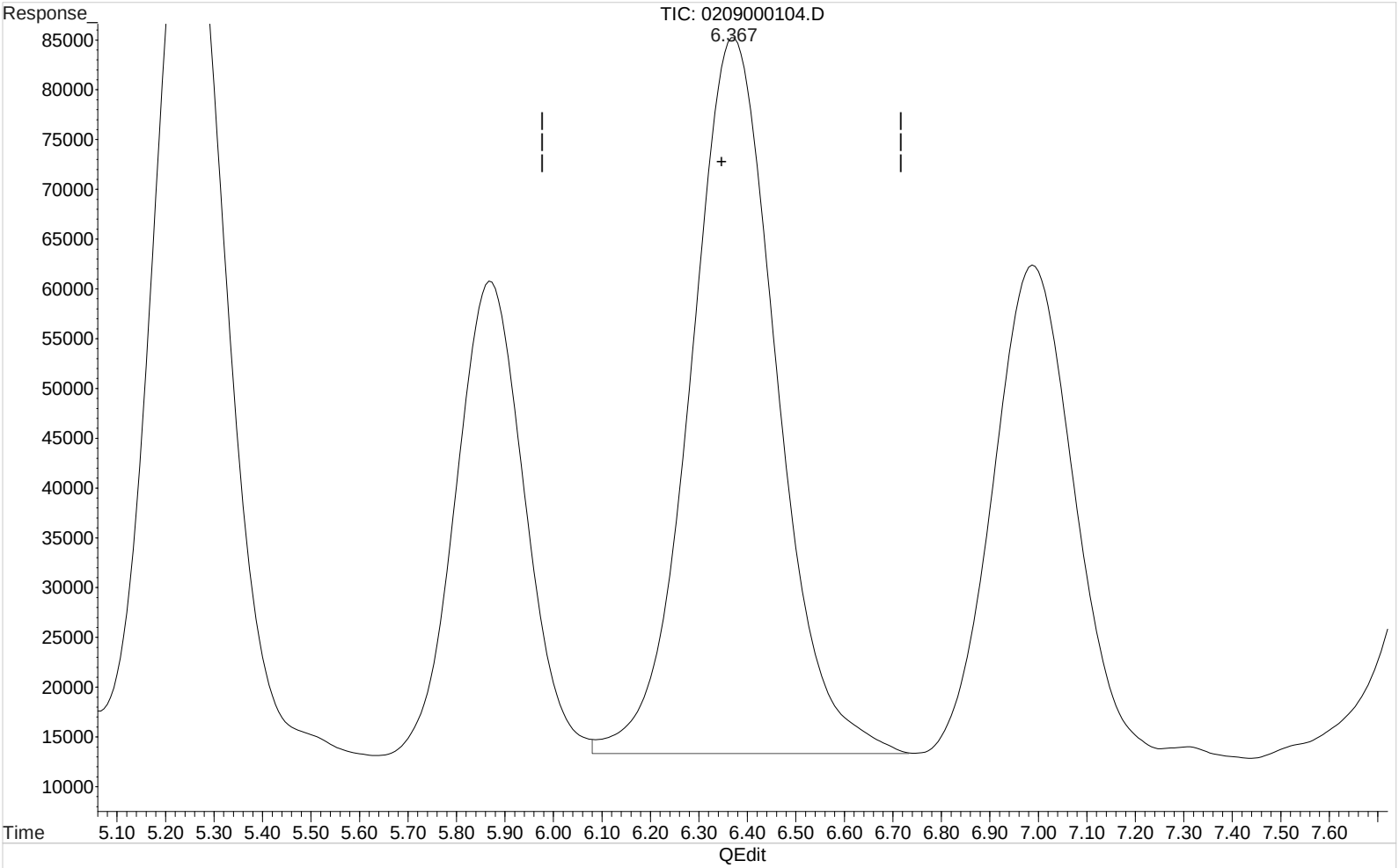
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.367min 21.218 ug/L m

response 889746

Manual Integration:

After

BLC

02/13/17

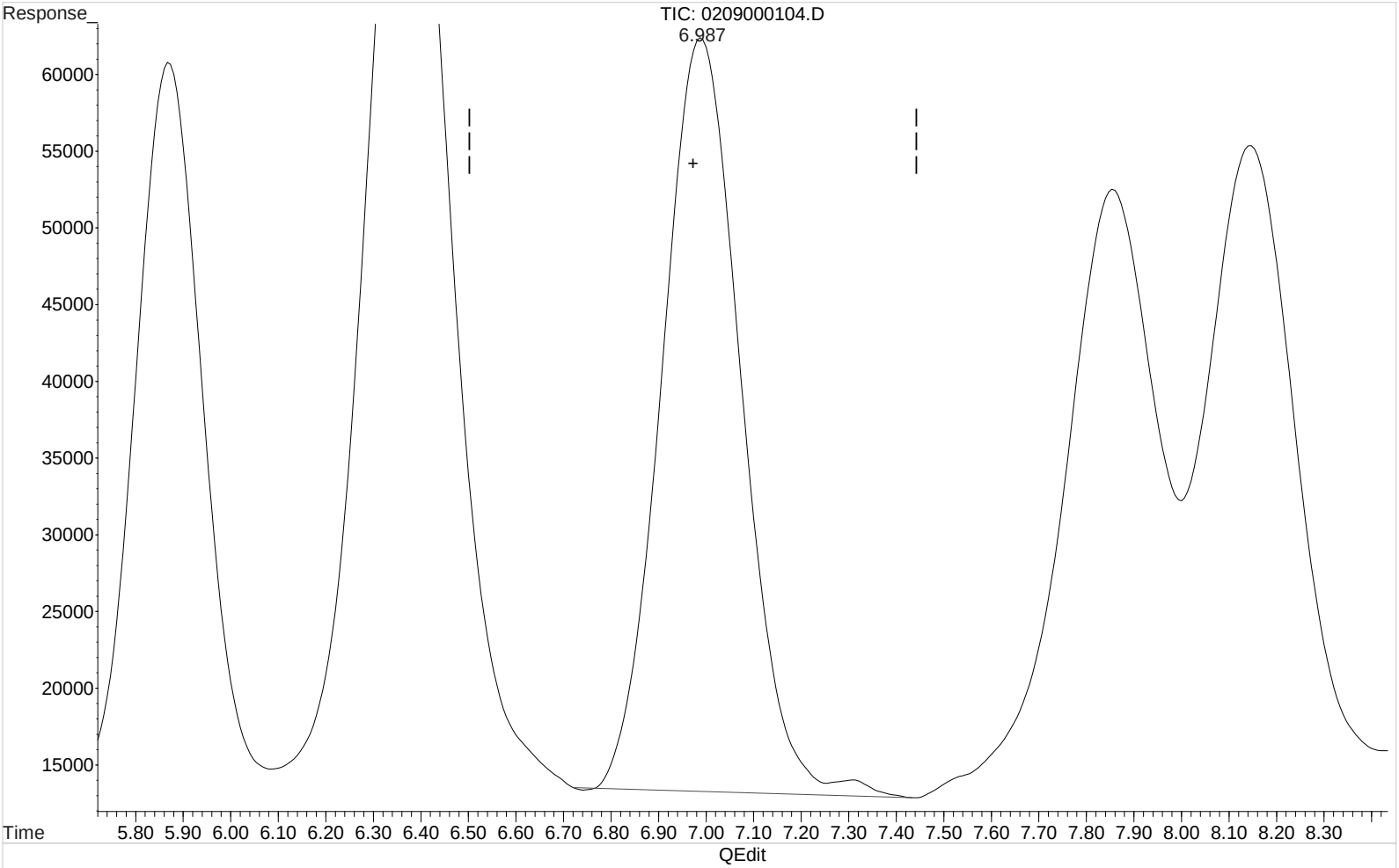
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(8) 3-NT (T)

6.987min 20.561 ug/L

response 573667

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

(b) (6)

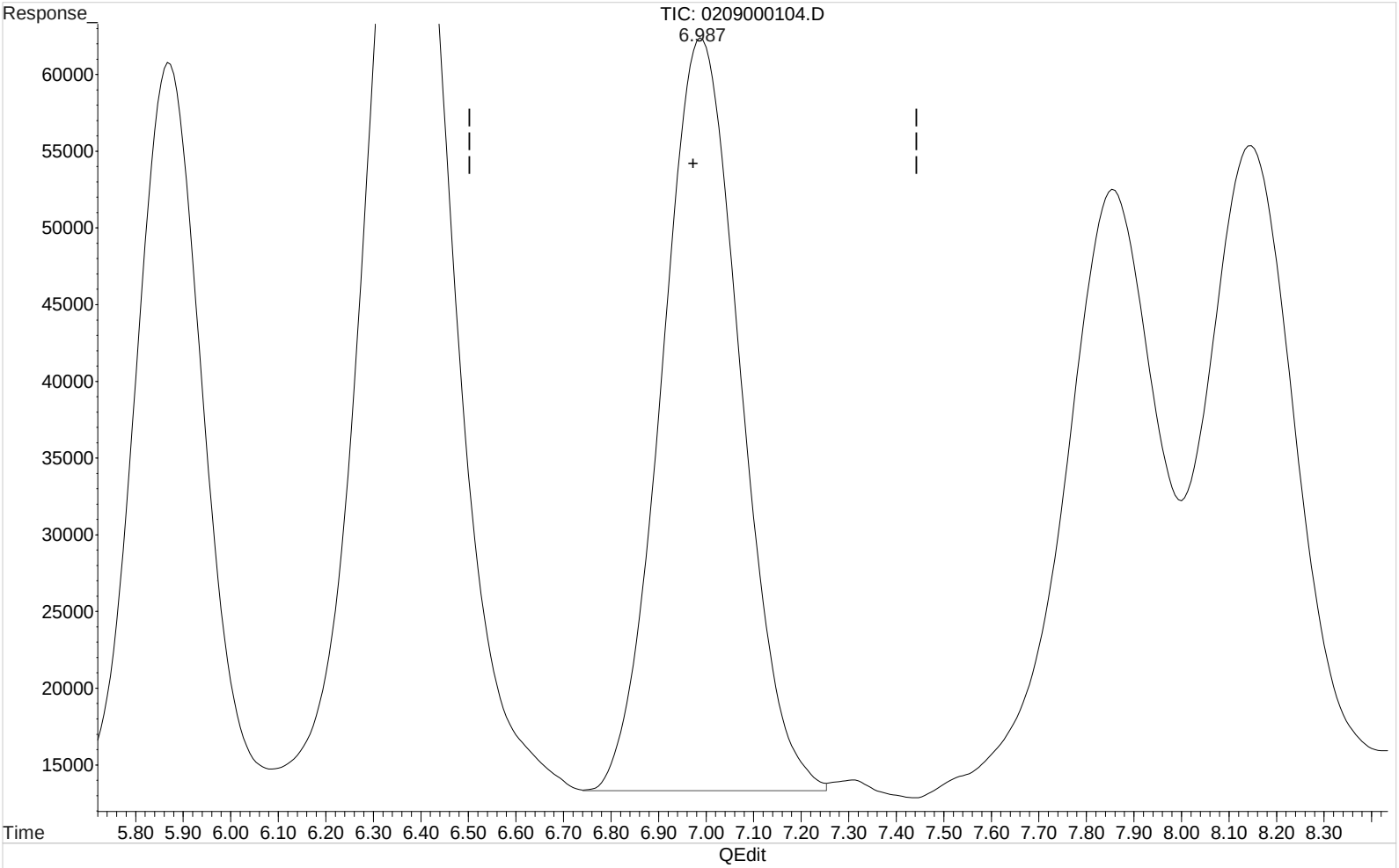
/13/17

/17/17

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(8) 3-NT (T)

6.987min 20.307 ug/L m

response 566568

Manual Integration:

After

BLC

02/13/17

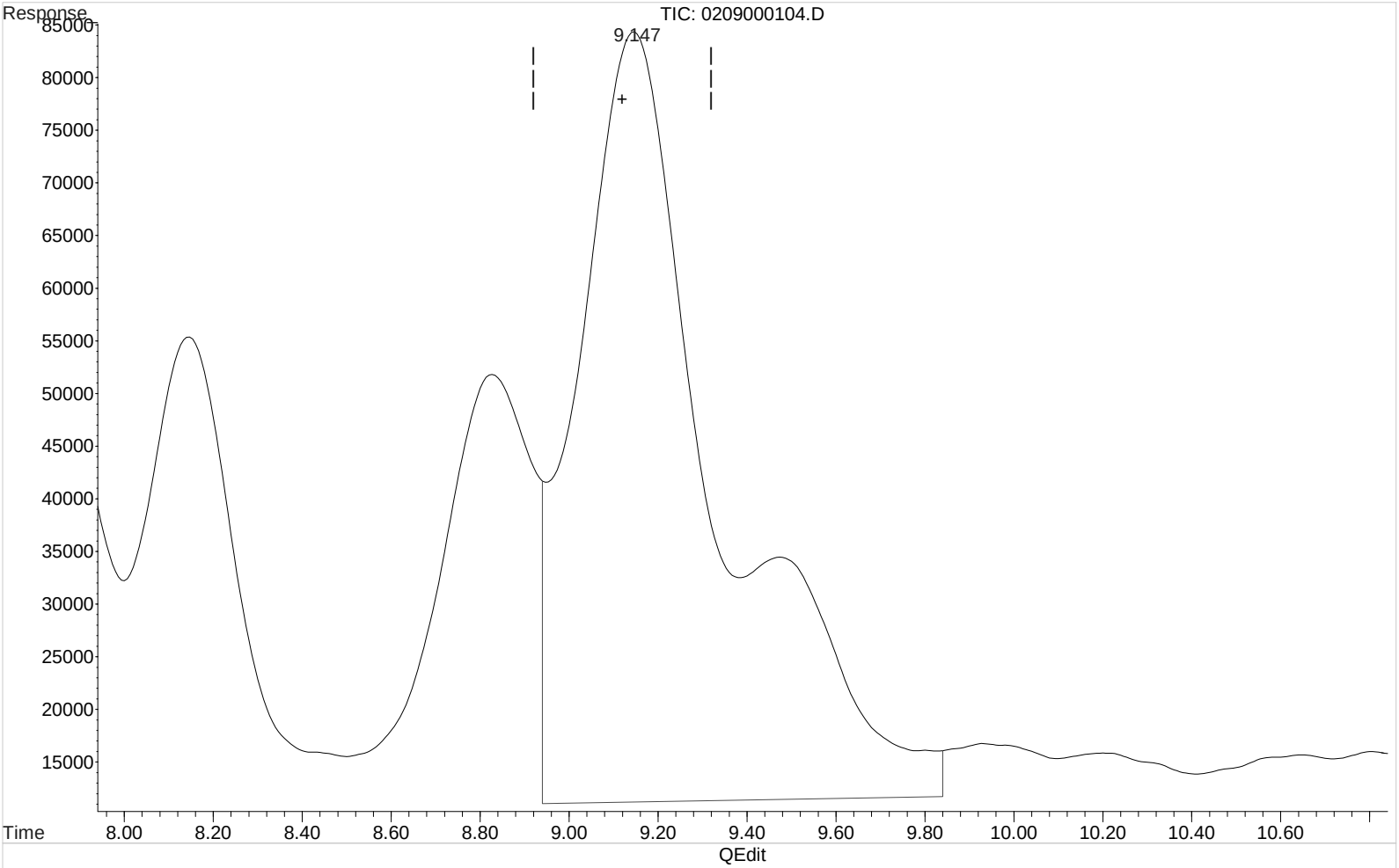
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(9) 1,3-DNB (T)

9.147min 28.638 ug/L

response 1600738

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

(b) (6)

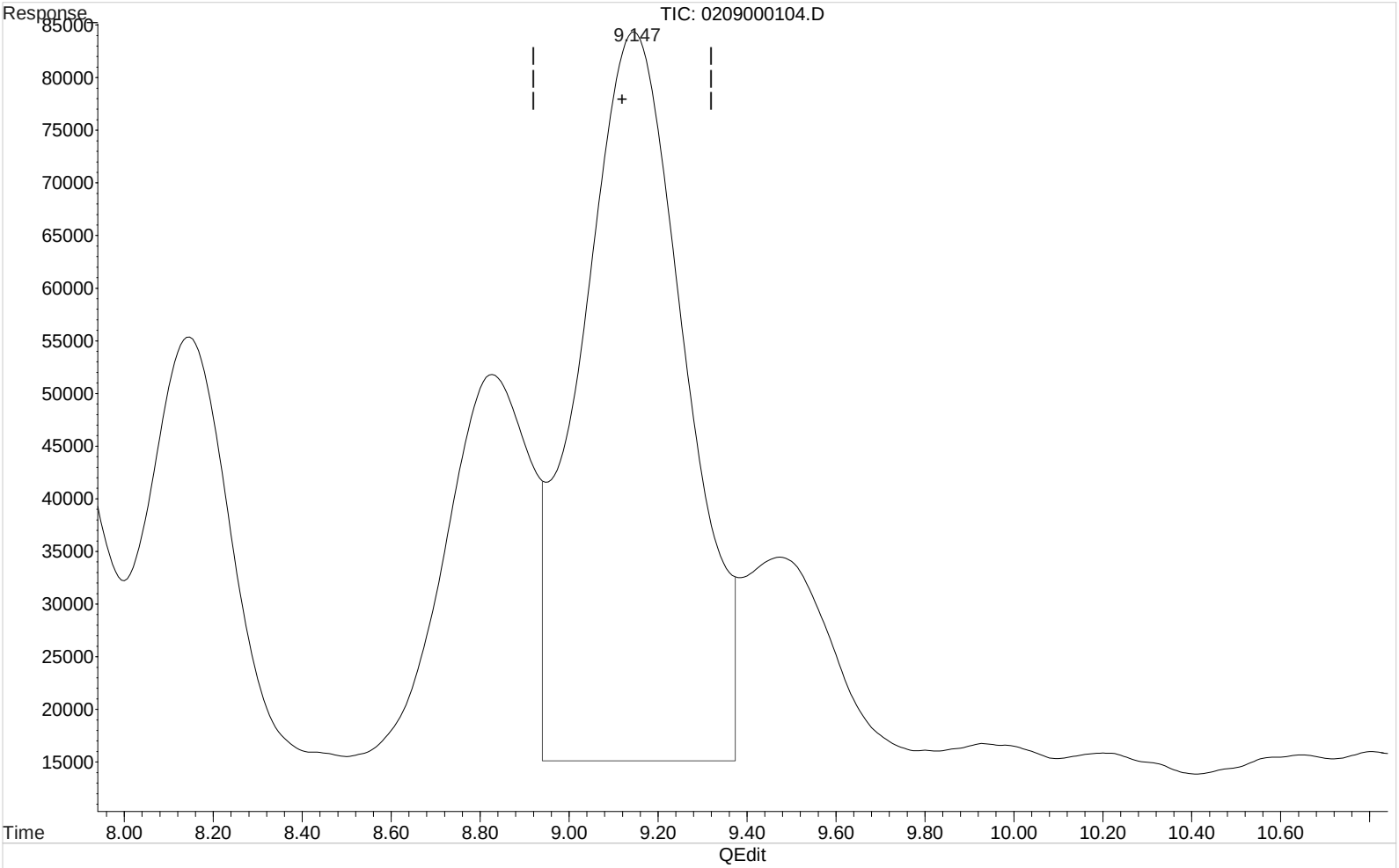
/13/17

/17/17

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(9) 1,3-DNB (T)

9.147min 20.188 ug/L m

response 1128441

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:12:28 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
11)	S	1-Chloro-3-Nitrobenzene	8.147	1336894	50.757	ug/L	
		Target Compounds					
1)	T	HMX	2.560	778040	49.560	ug/L	m
2)	T	RDX	2.807	976620	54.310	ug/L	m
3)	T	Nitrobenzene	4.493	1930068	52.121	ug/L	m
4)	T	3,5-Dinitroaniline	5.253	2326297	50.288	ug/L	m
5)	T	4-Amino-2,6-DNT	4.880	1640782	51.865	ug/L	m
6)	T	2-NT	5.873	1175129	49.902	ug/L	m
7)	T	2-Amino-4,6-DNT	6.373	2151466	51.475	ug/L	
8)	T	3-NT	6.993	1417335	50.902	ug/L	
9)	T	1,3-DNB	9.147	2937294	52.887	ug/L	
10)	T	4-NT	7.853	1198086	52.690	ug/L	m
12)	T	2,6-DNT	8.833	1216672	49.709	ug/L	
13)	T	2,4-DNT	14.827	2785081	54.635	ug/L	
14)	T	Tetryl	13.013	1450932	49.712	ug/L	m
15)	T	1,3,5-TNB	19.827	2198383	53.482	ug/L	m
16)	T	2,4,6-TNT	20.813	1897768	49.120	ug/L	m

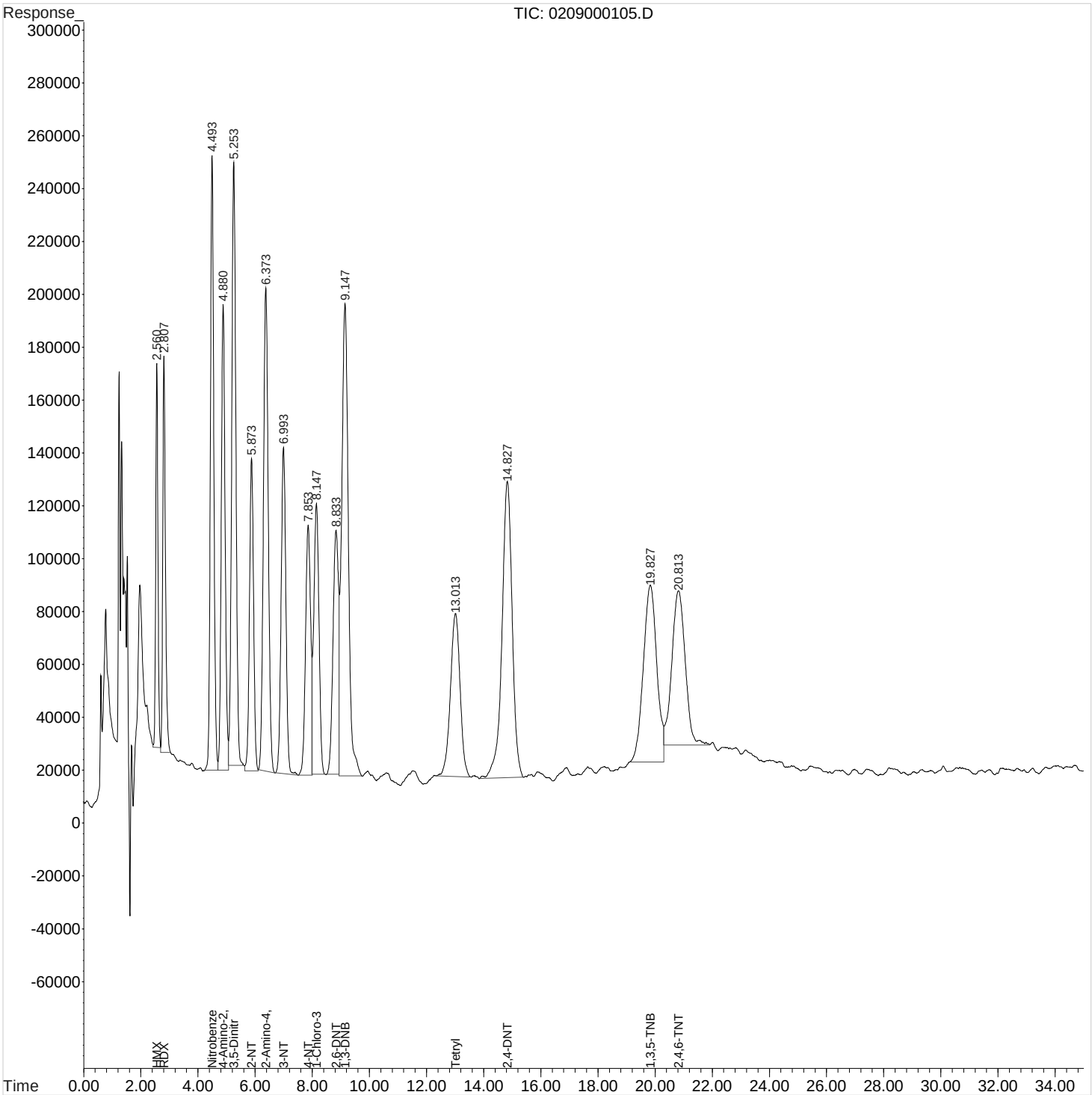
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:12:28 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

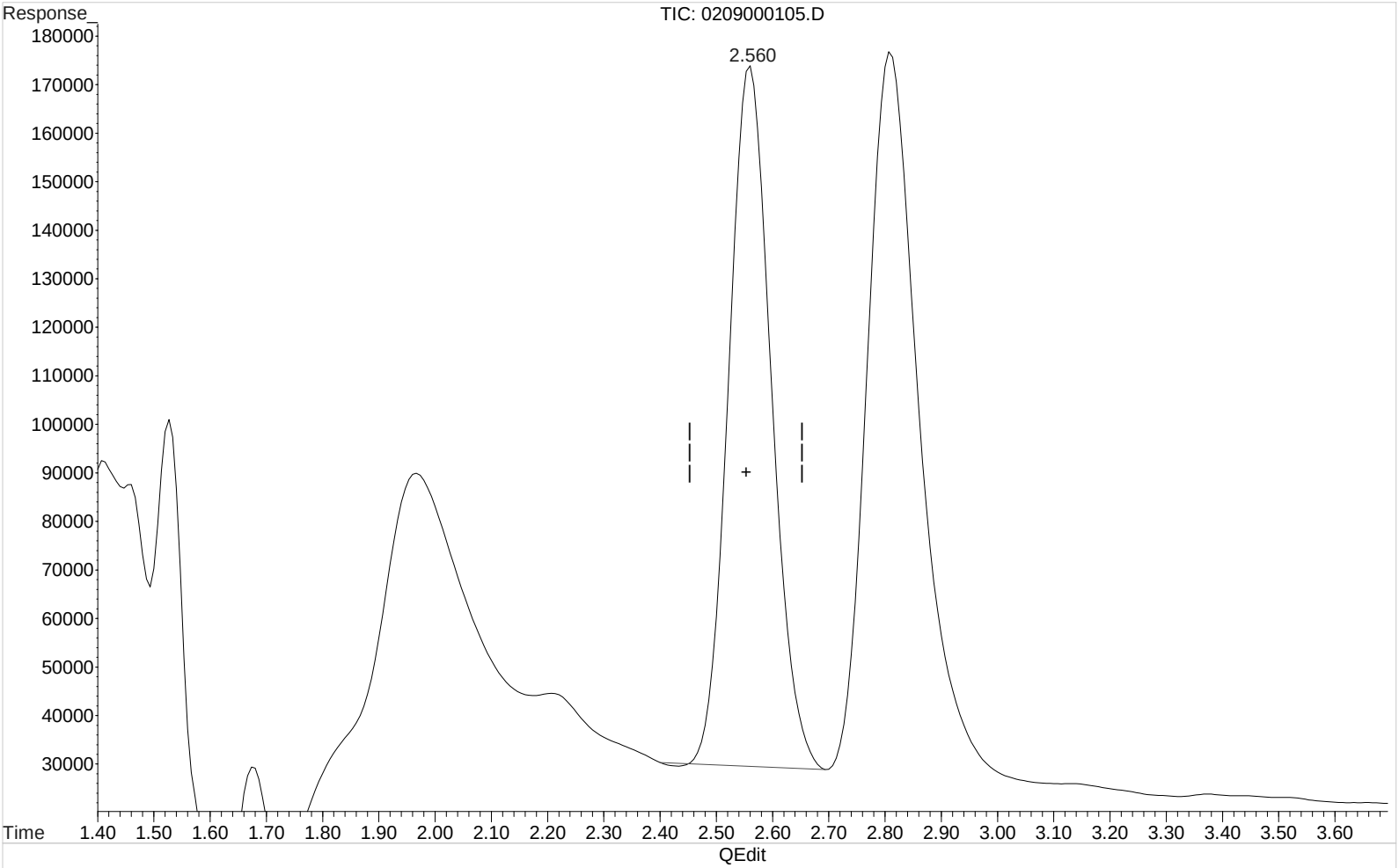


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.560min 48.616 ug/L

response 763221

Manual Integration:

Before

02/13/17

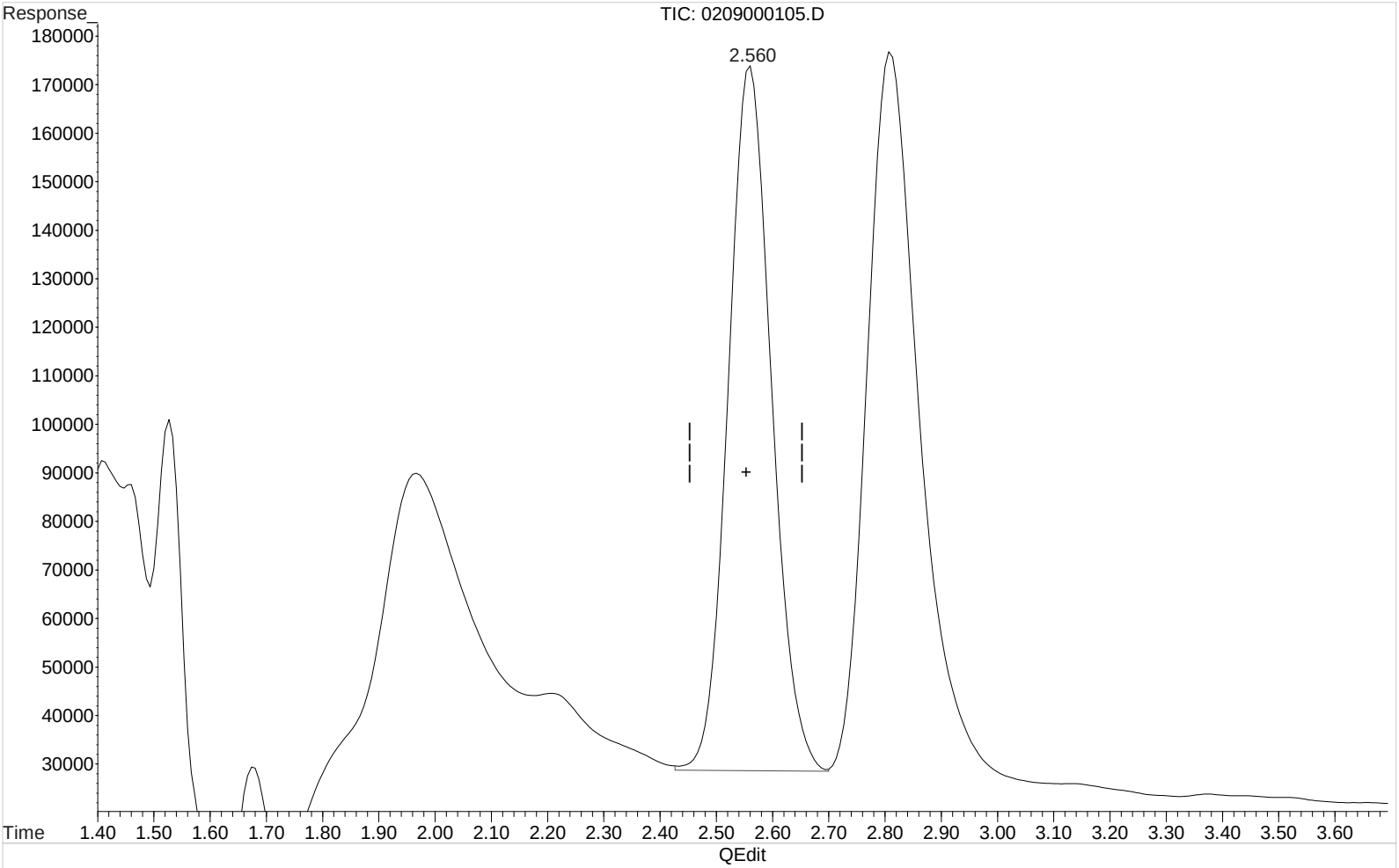
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.560min 49.560 ug/L m

response 778040

Manual Integration:

After

BLC

02/13/17

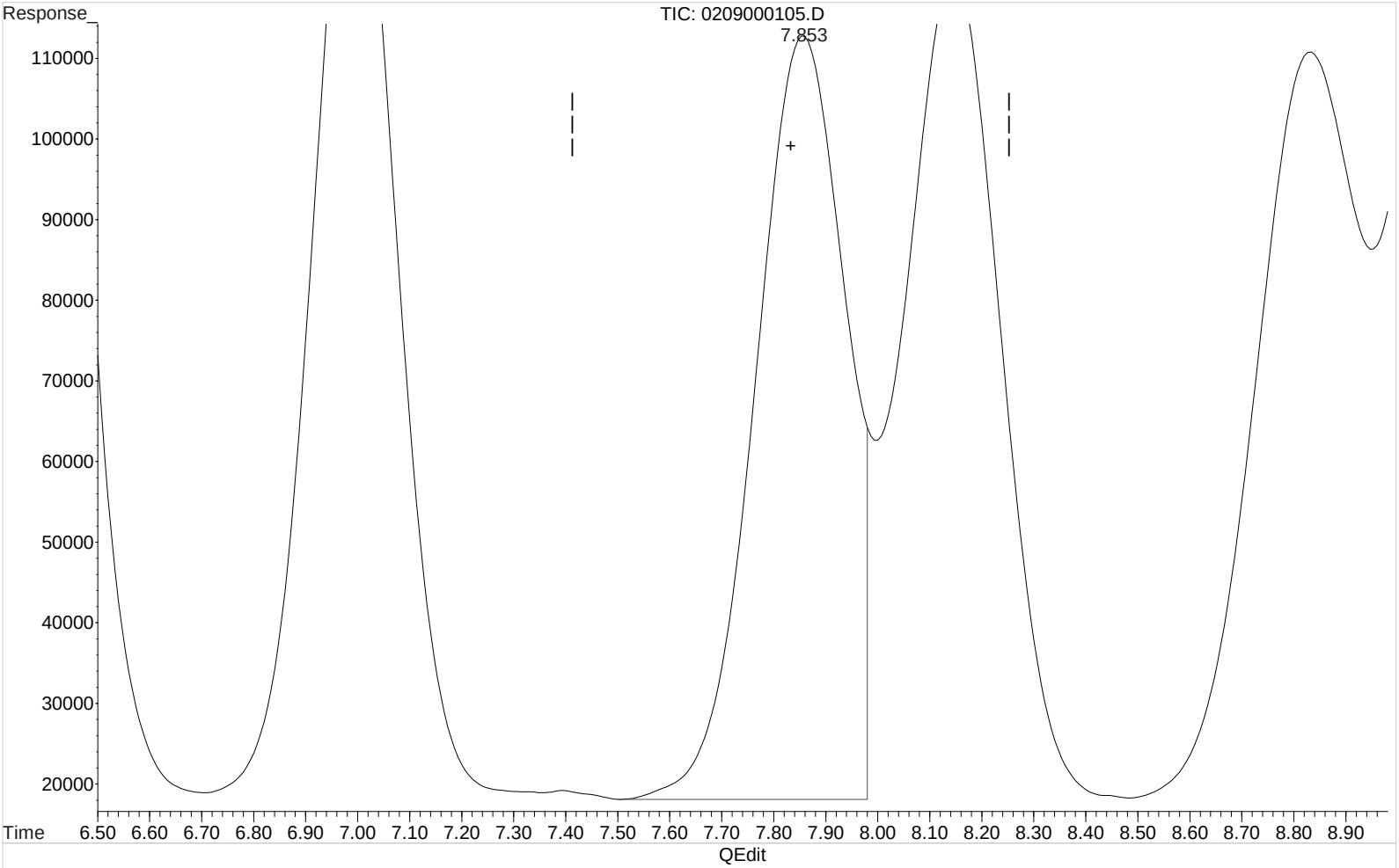
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.853min 50.394 ug/L

response 1145870

Manual Integration:

Before

02/13/17

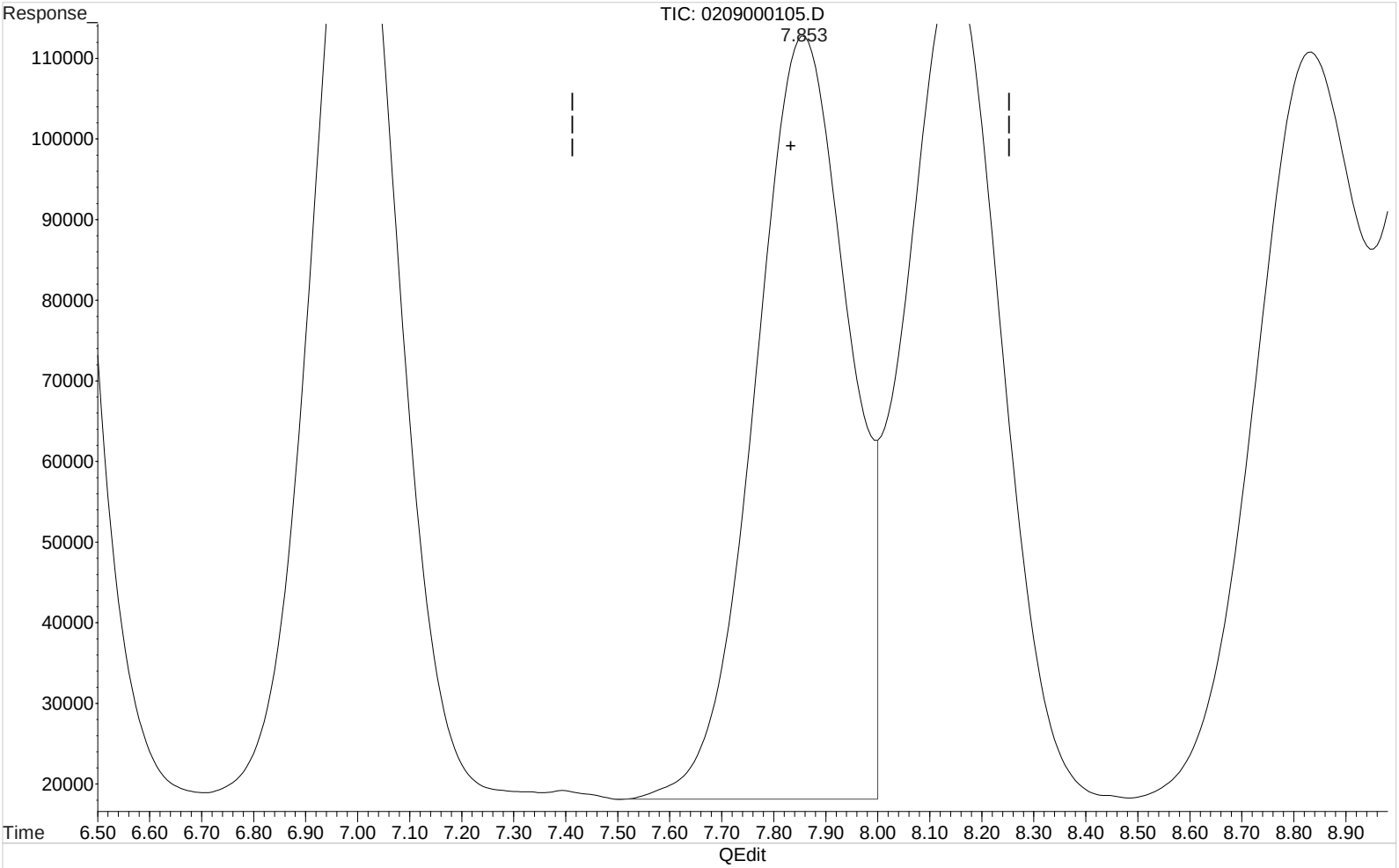
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.853min 52.690 ug/L m

response 1198086

Manual Integration:

After

BLC

02/13/17

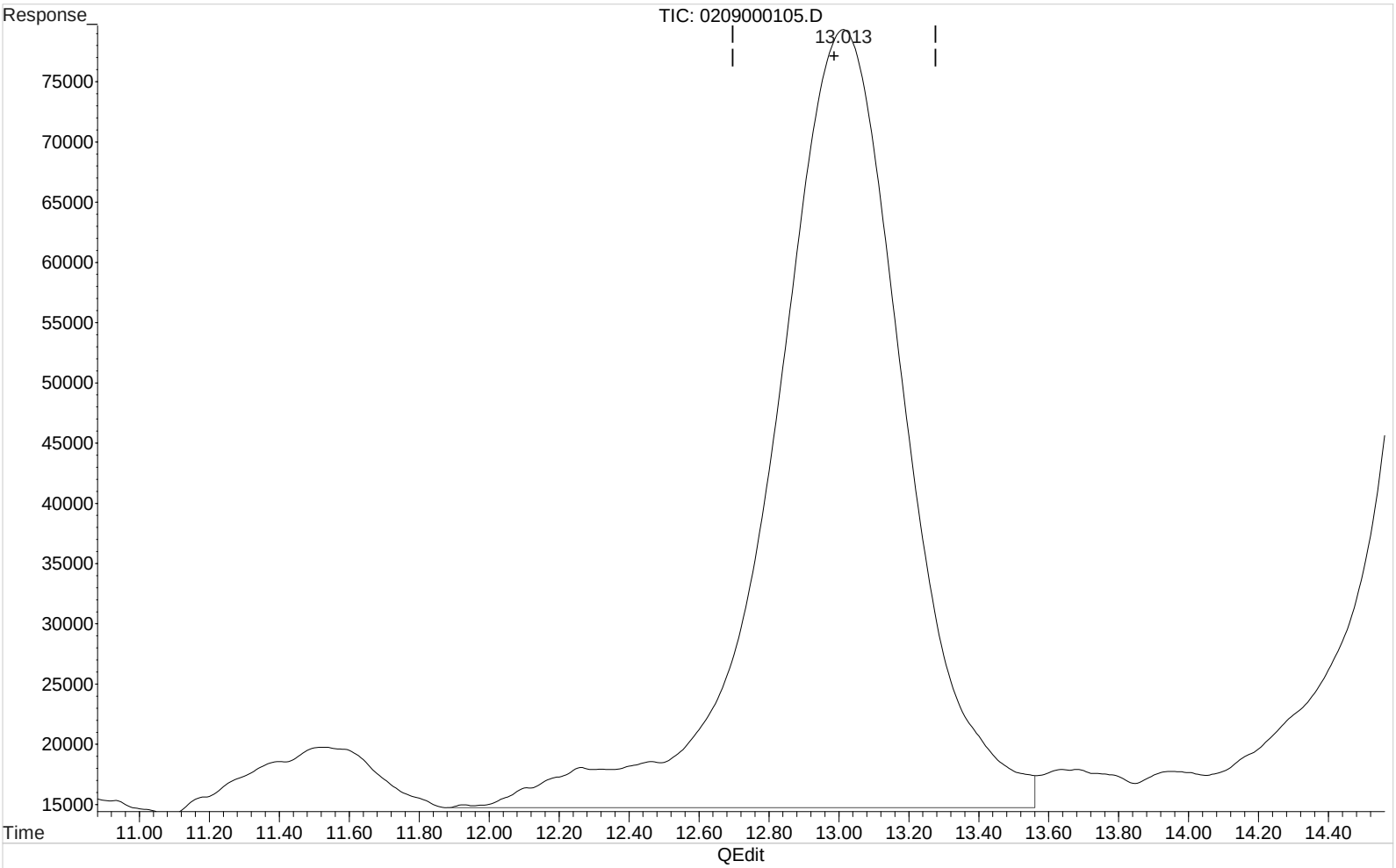
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(14) Tetryl (T)

13.013min 58.523 ug/L

response 1708087

Manual Integration:

Before

02/13/17

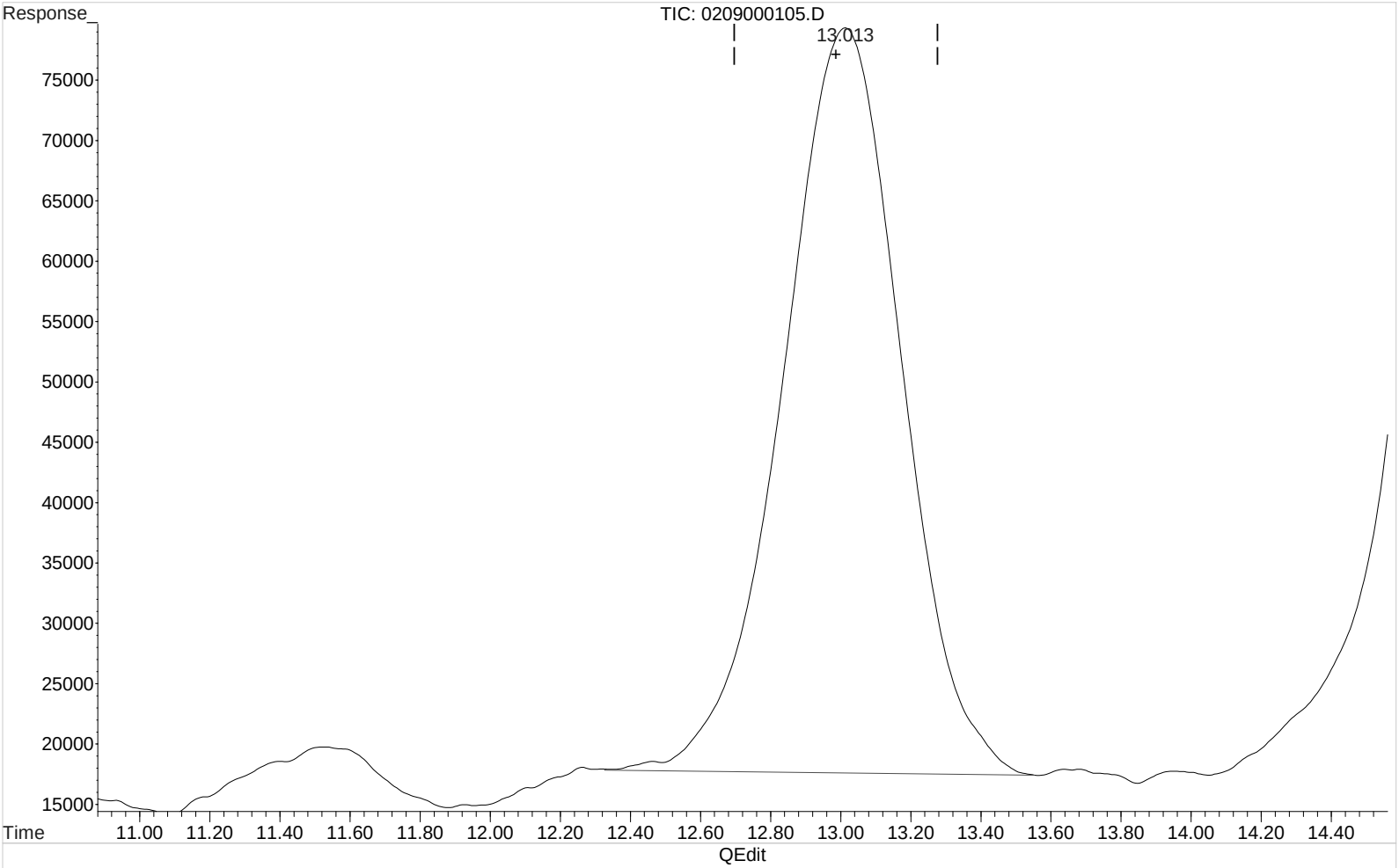
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(14) Tetryl (T)

13.013min 49.712 ug/L m

response 1450932

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

(b) (6)

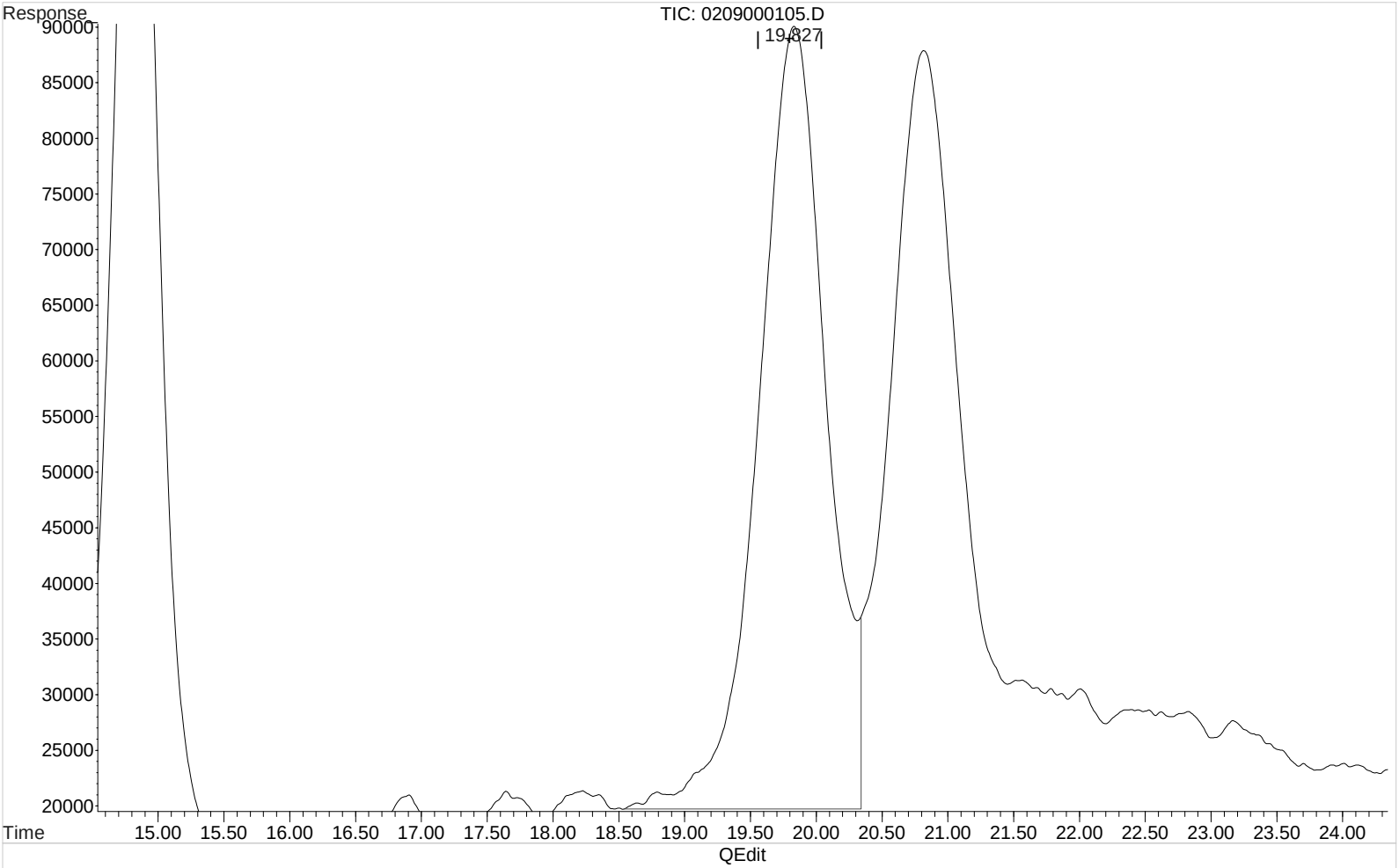
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(15) 1,3,5-TNB (T)

19.827min 61.425 ug/L

response 2524868

Manual Integration:

Before

02/13/17

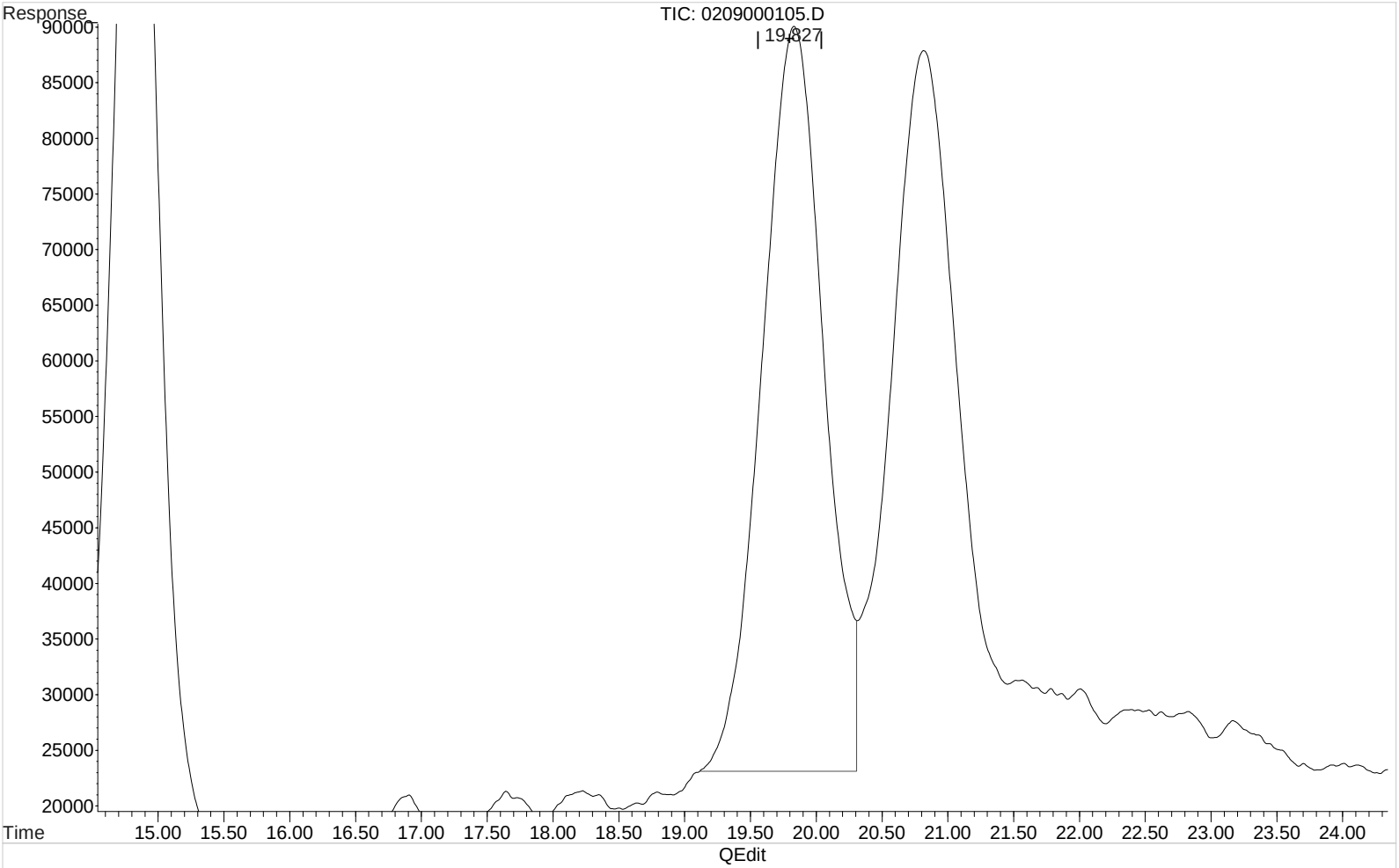
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(15) 1,3,5-TNB (T)

19.827min 53.482 ug/L m

response 2198383

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b) (6)

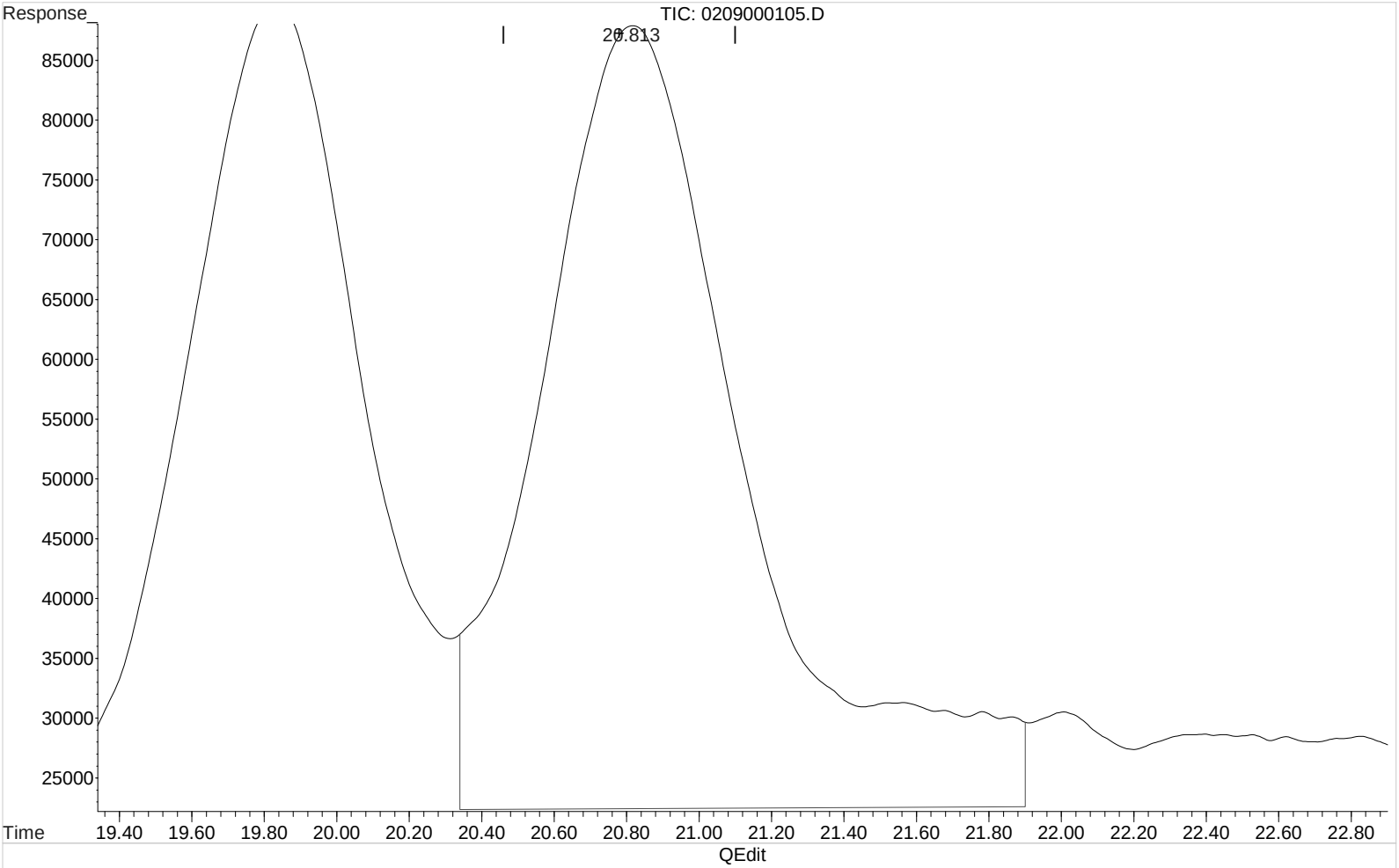
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(16) 2,4,6-TNT (T)

20.813min 65.772 ug/L

response 2541132

Manual Integration:

Before

02/13/17

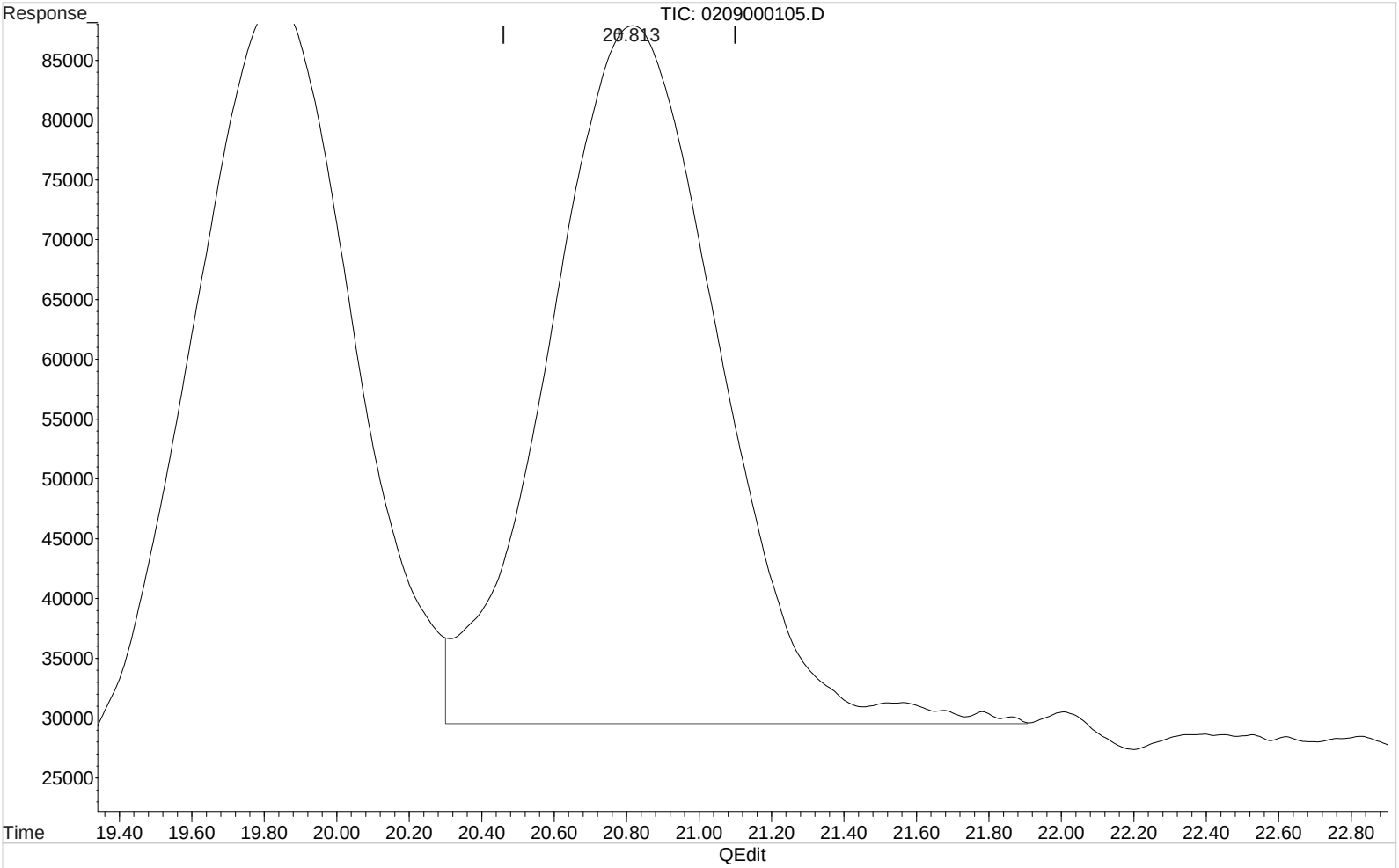
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(16) 2,4,6-TNT (T)

20.813min 49.120 ug/L m

response 1897768

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b) (6)

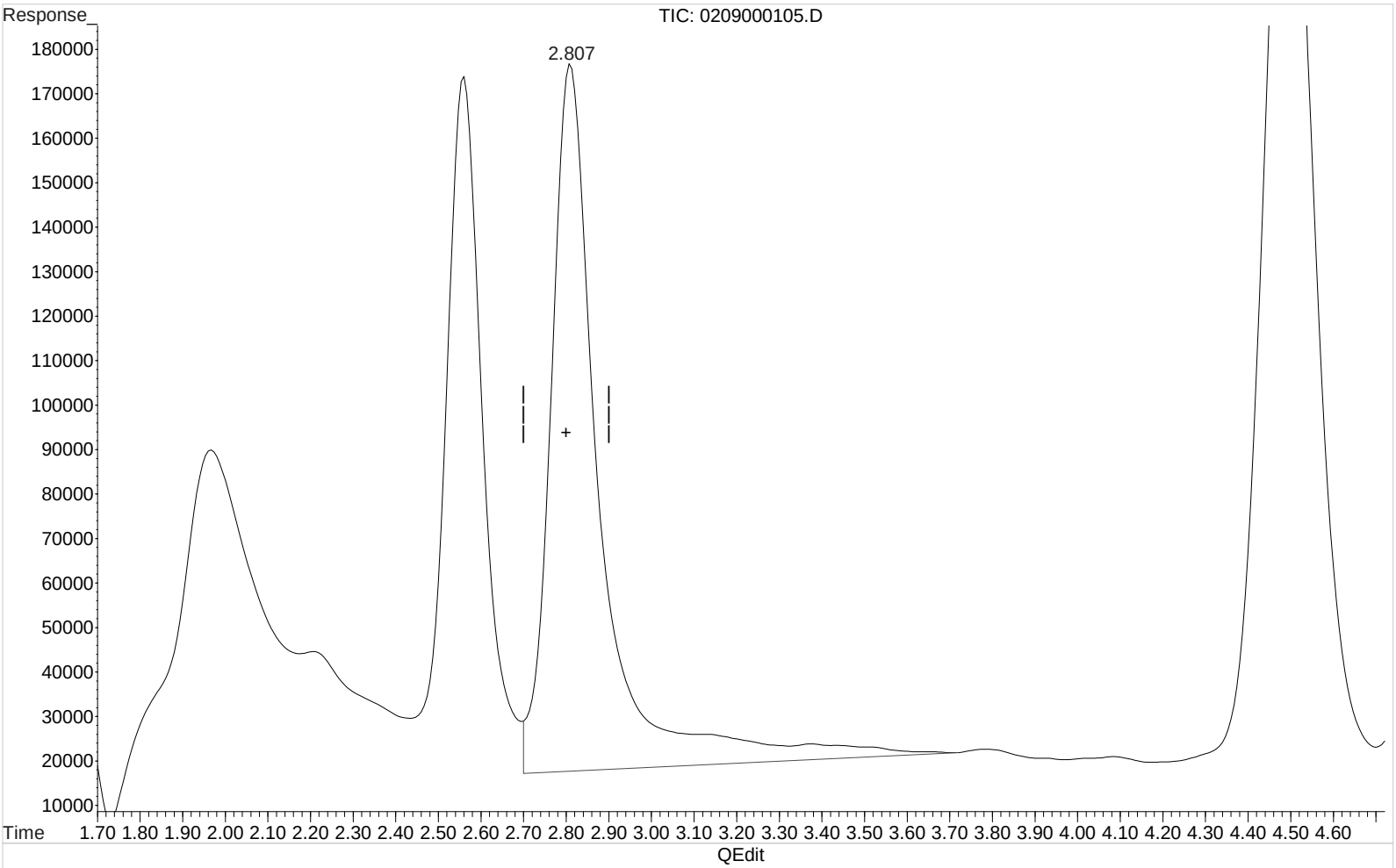
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.807min 71.943 ug/L

response 1293711

Manual Integration:

Before

02/13/17

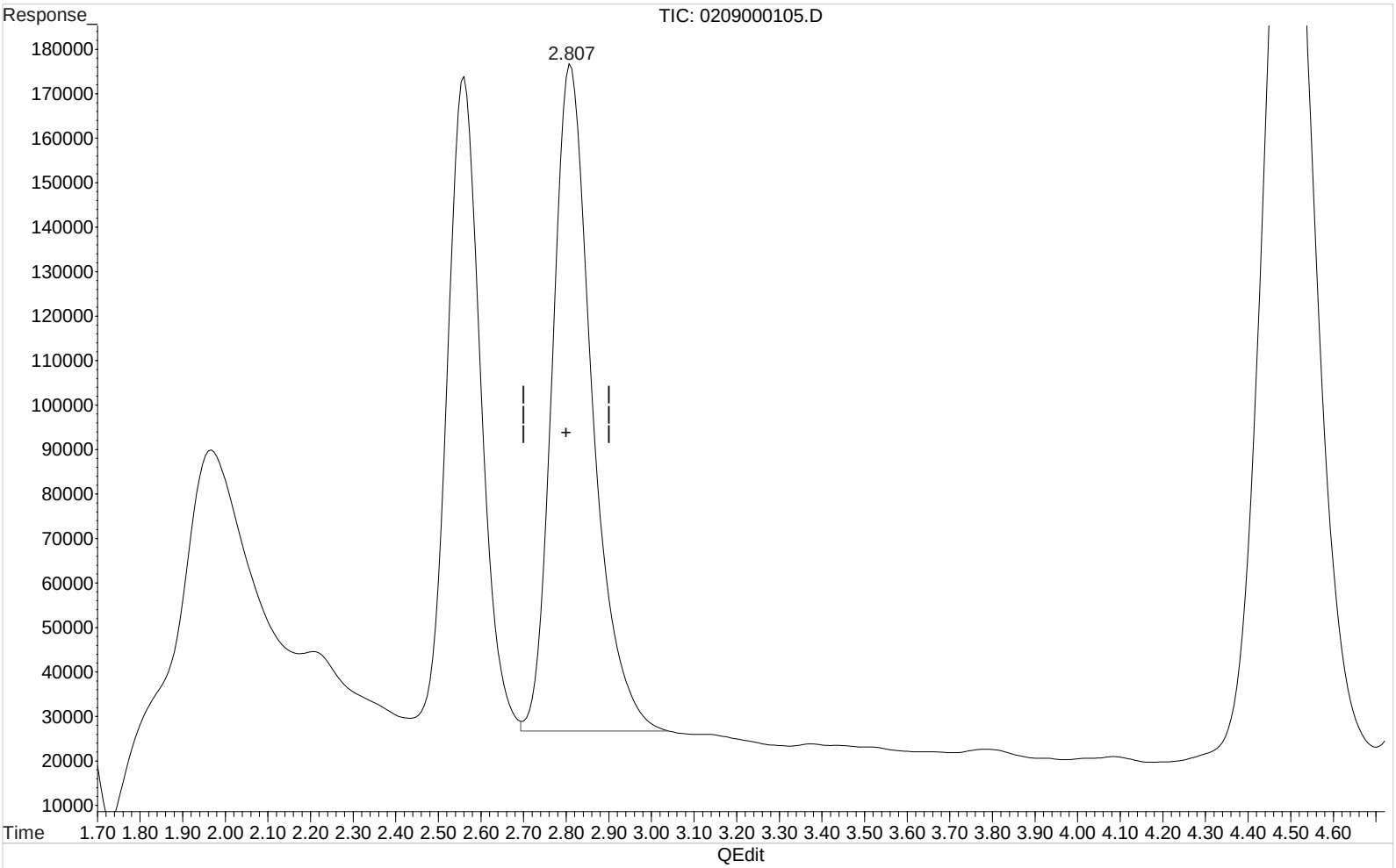
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.807min 54.310 ug/L m

response 976620

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

(b) (6)

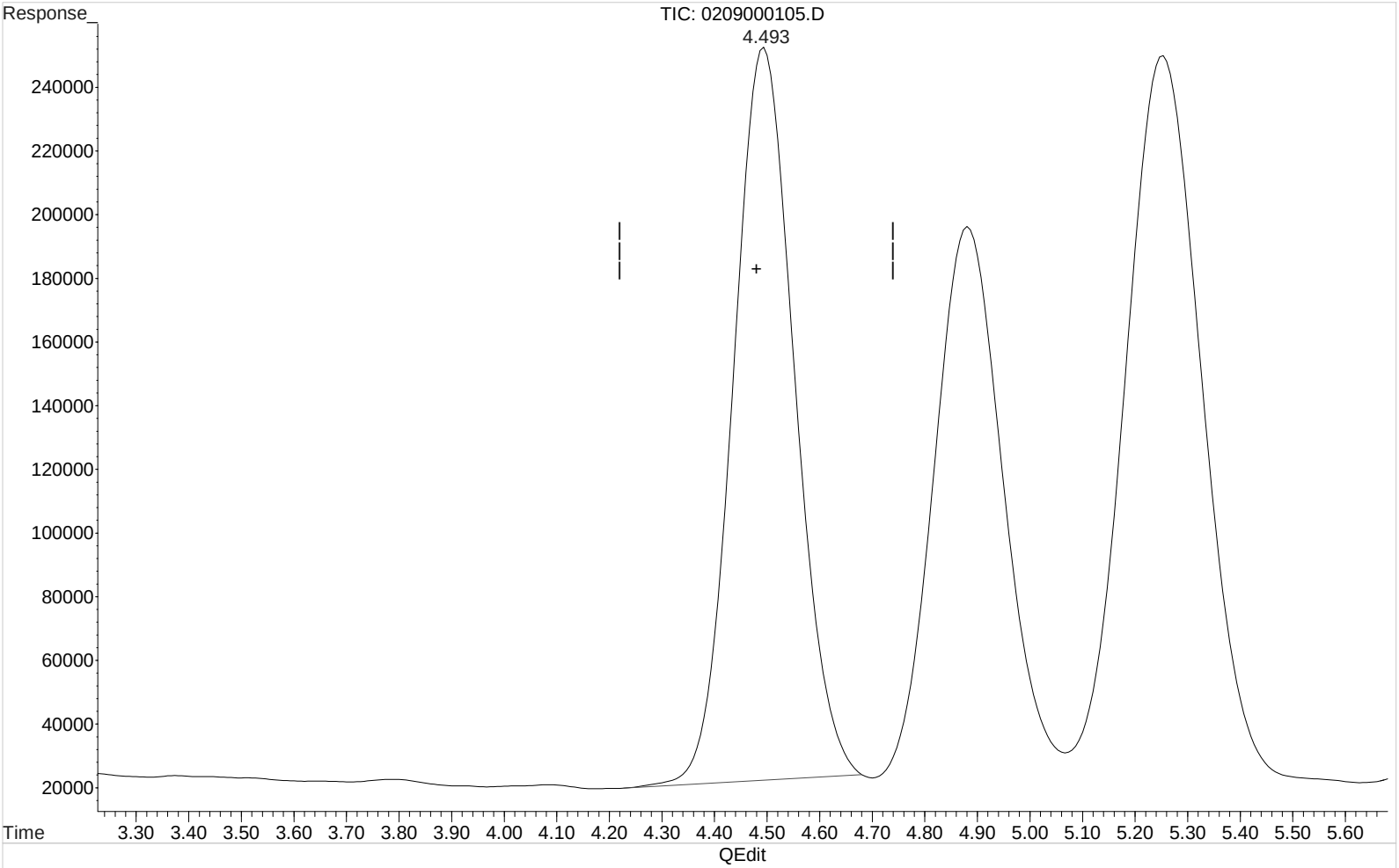
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(3) Nitrobenzene (T)

4.493min 50.613 ug/L

response 1874219

Manual Integration:

Before

02/13/17

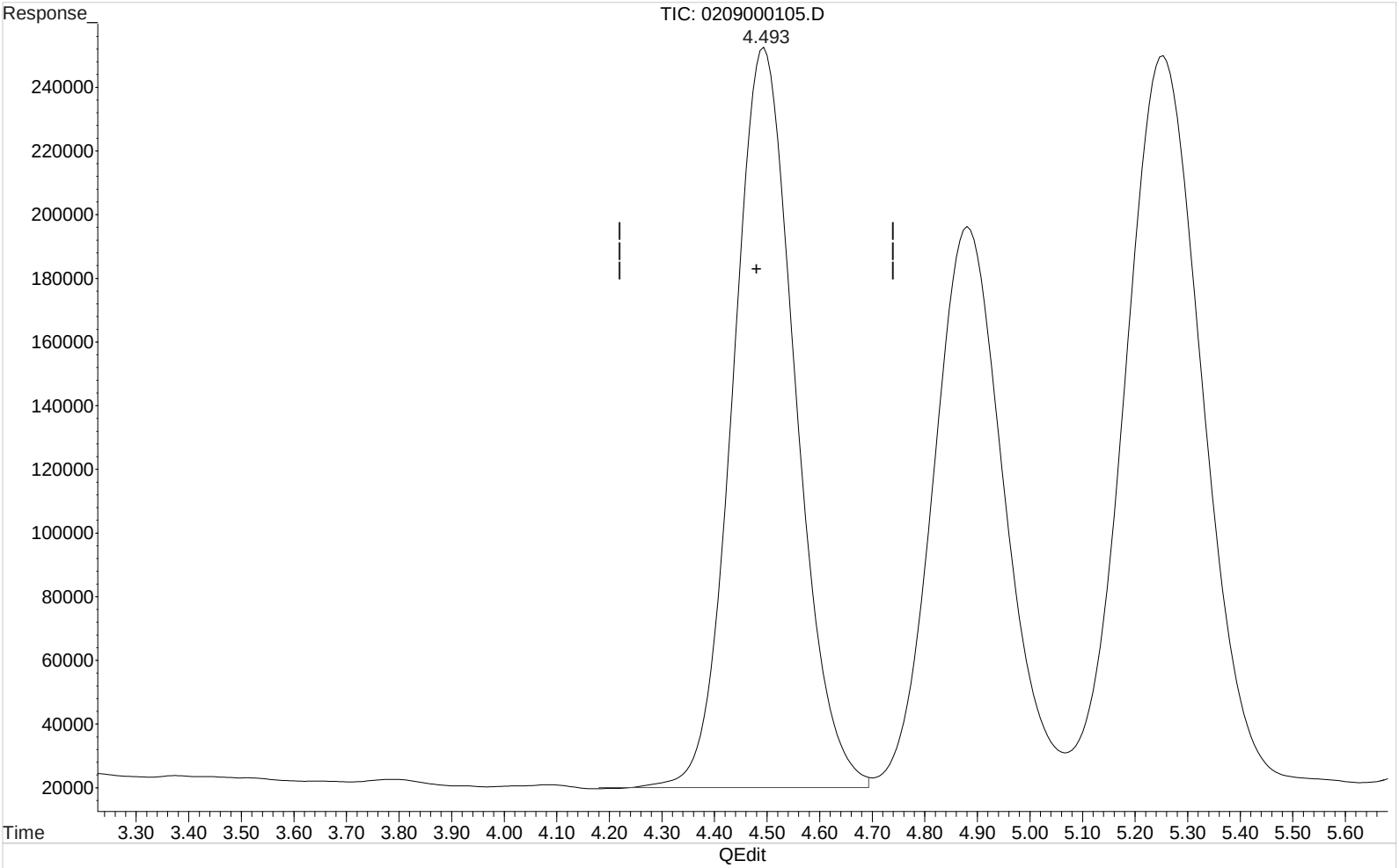
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.493min 52.121 ug/L m

response 1930068

Manual Integration:

After

BLC

02/13/17

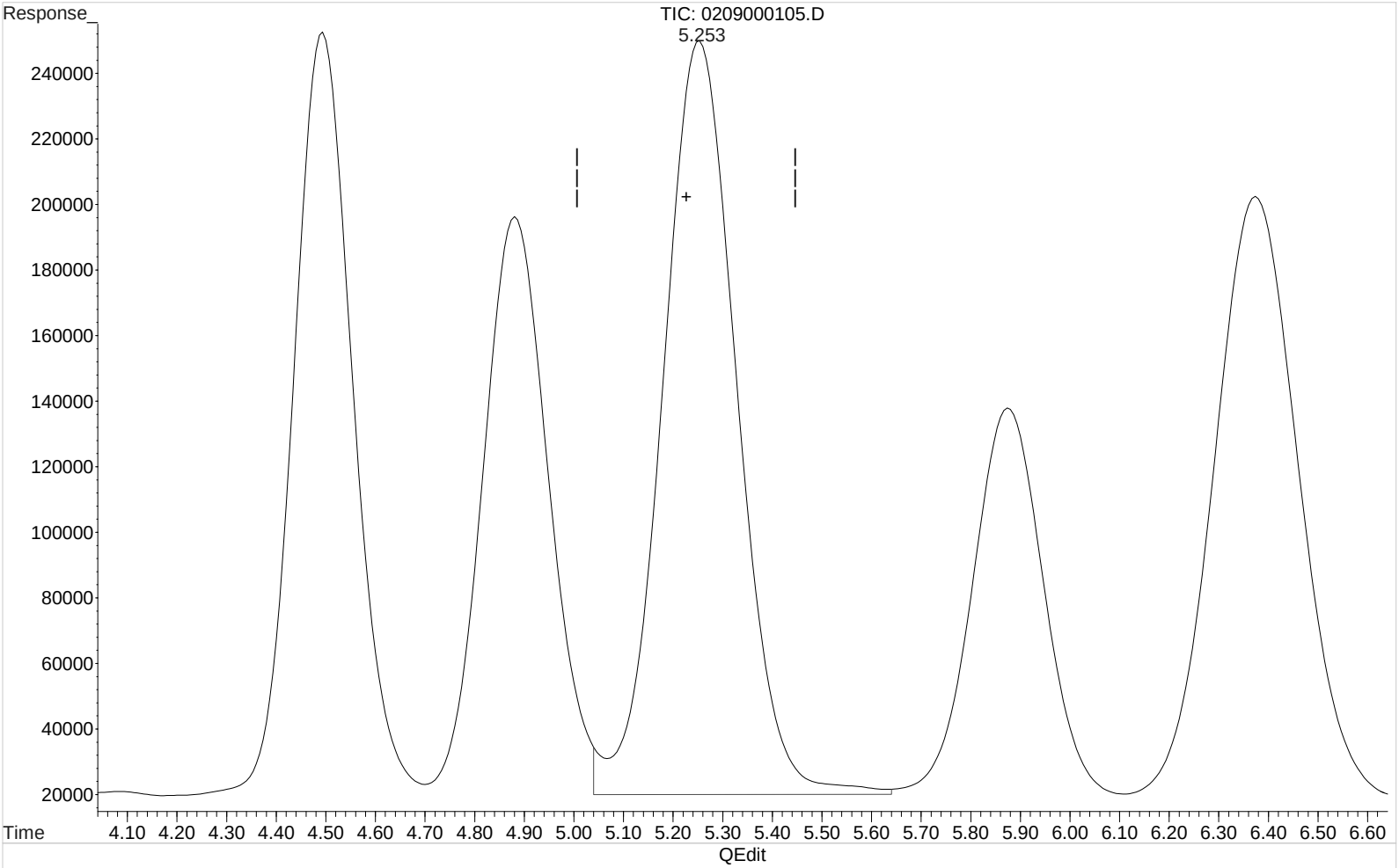
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(4) 3,5-Dinitroaniline (T)

5.253min 51.967 ug/L

response 2403967

Manual Integration:

Before

02/13/17

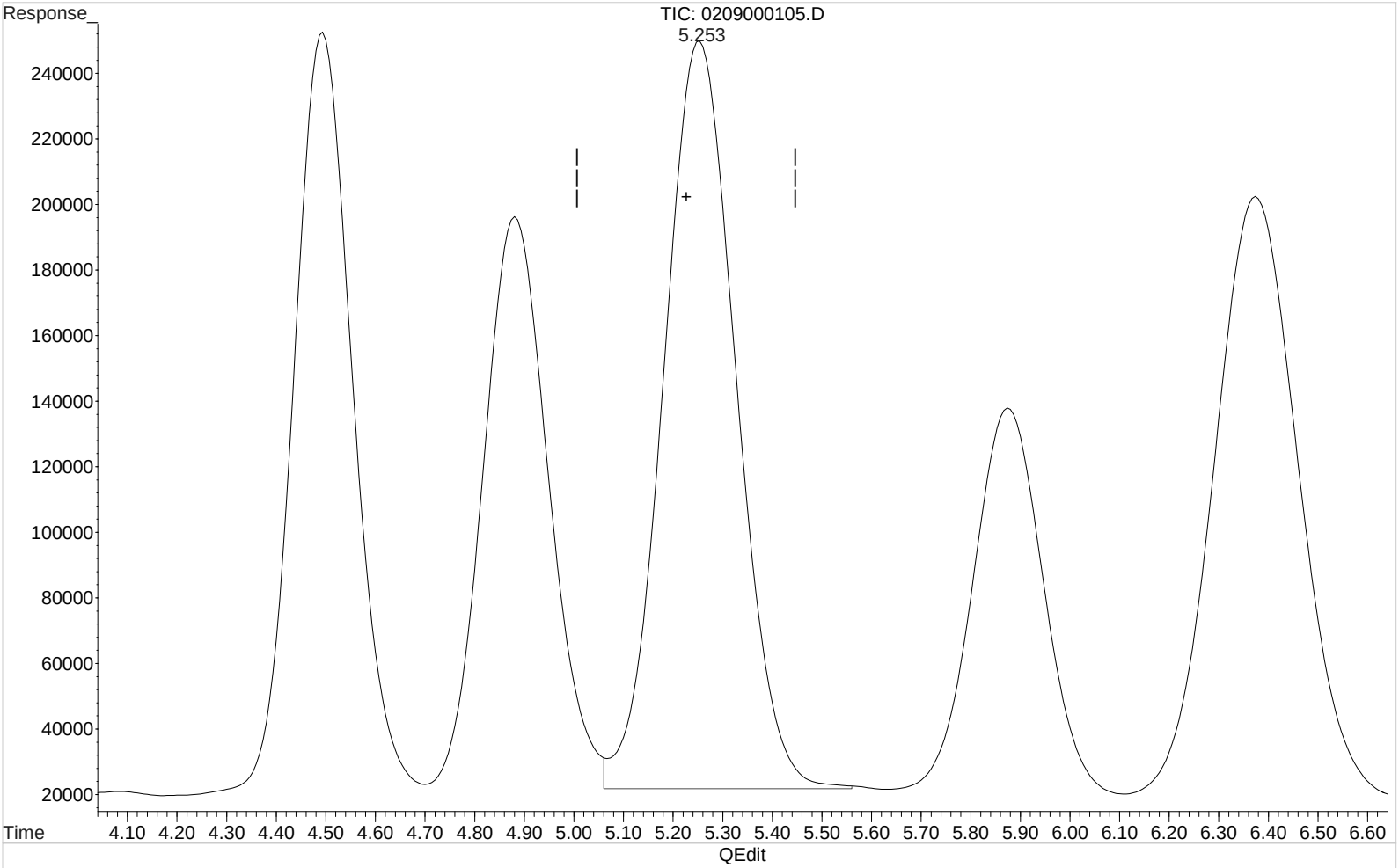
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(4) 3,5-Dinitroaniline (T)

5.253min 50.288 ug/L m

response 2326297

Manual Integration:

After

BLC

02/13/17

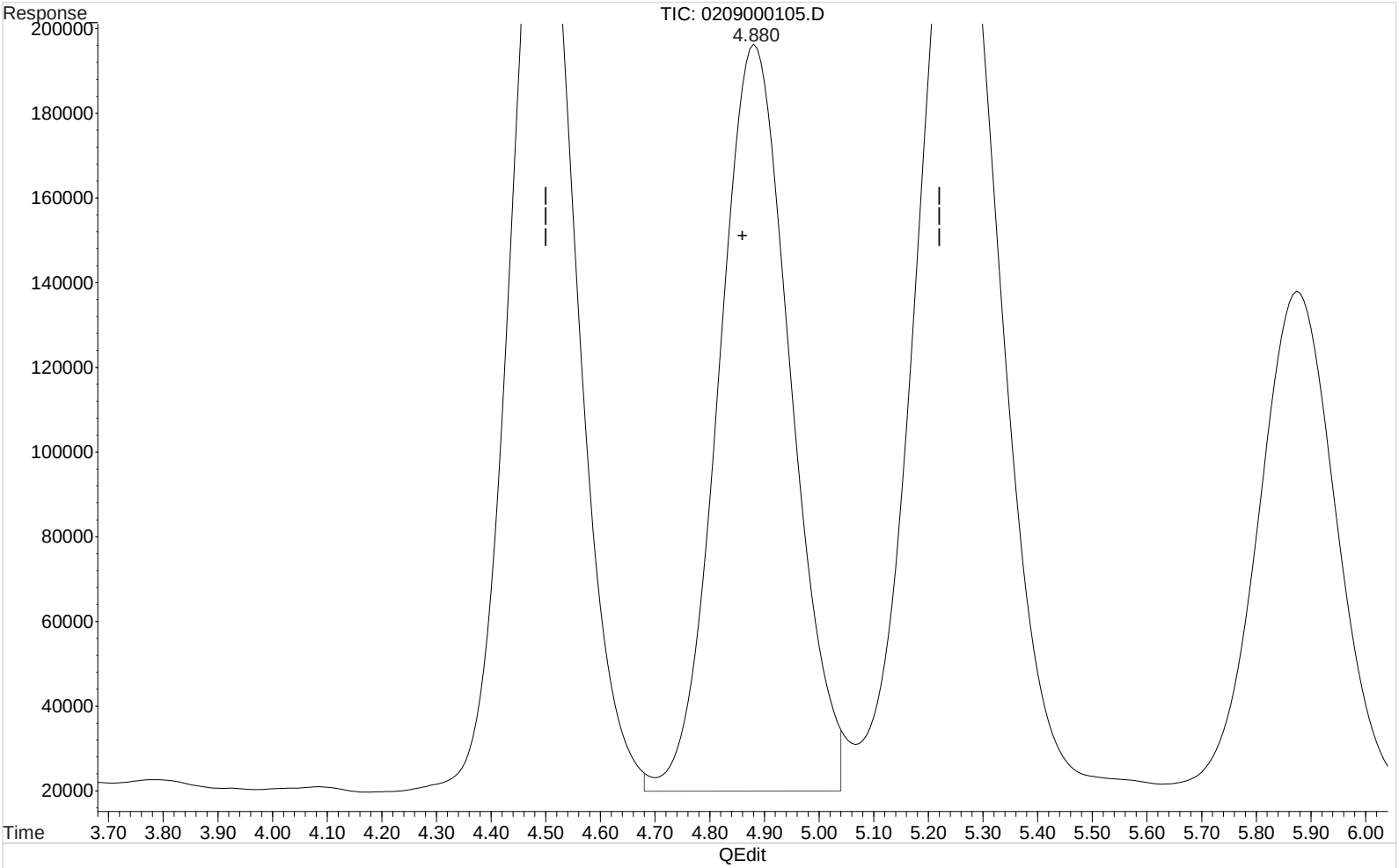
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(5) 4-Amino-2,6-DNT (T)

4.880min 51.450 ug/L

response 1627659

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

(b) (6)

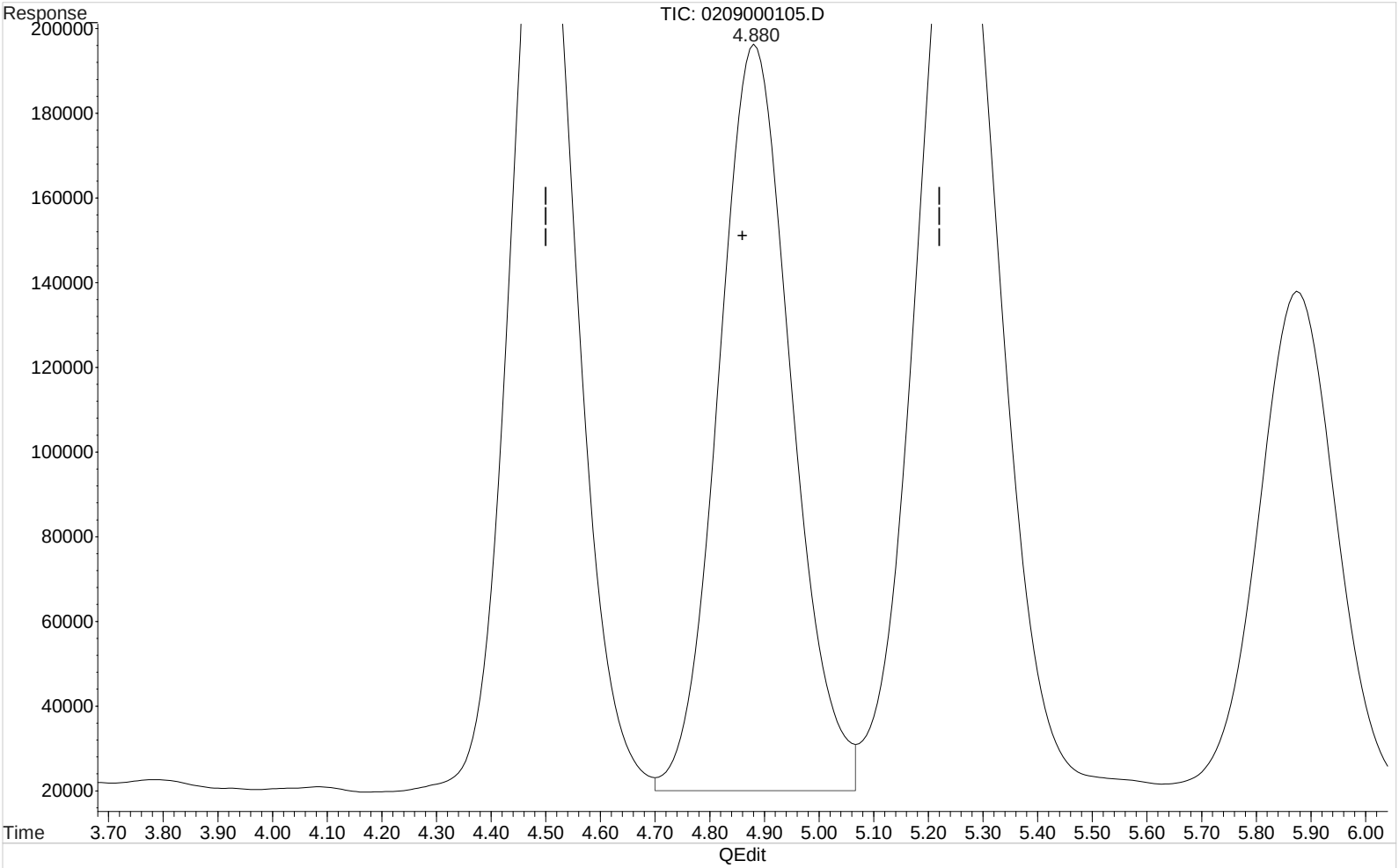
2/13/17

2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(5) 4-Amino-2,6-DNT (T)

4.880min 51.865 ug/L m

response 1640782

Manual Integration:

After

BLC

02/13/17

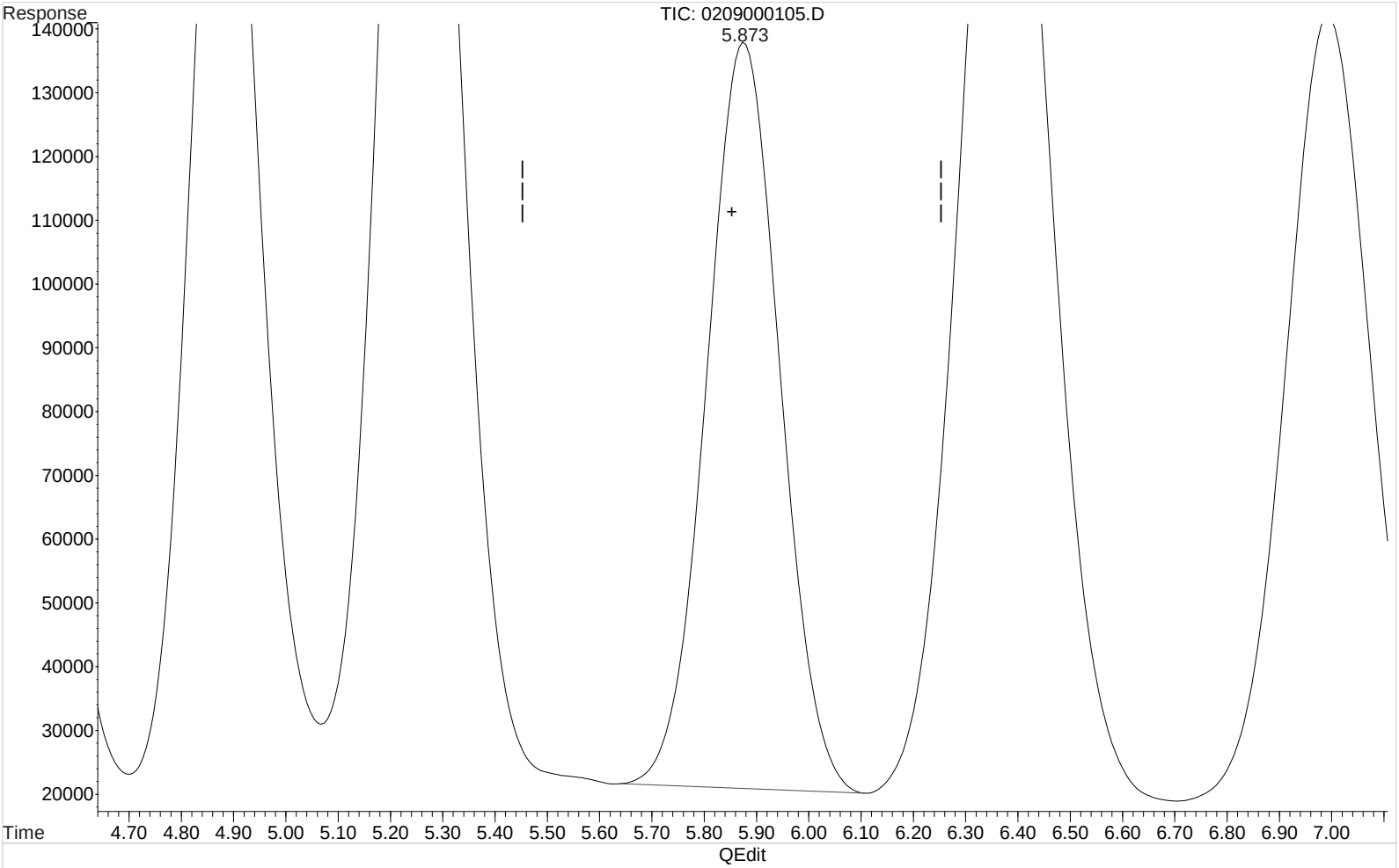
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.873min 48.523 ug/L

response 1142649

Manual Integration:

Before

02/13/17

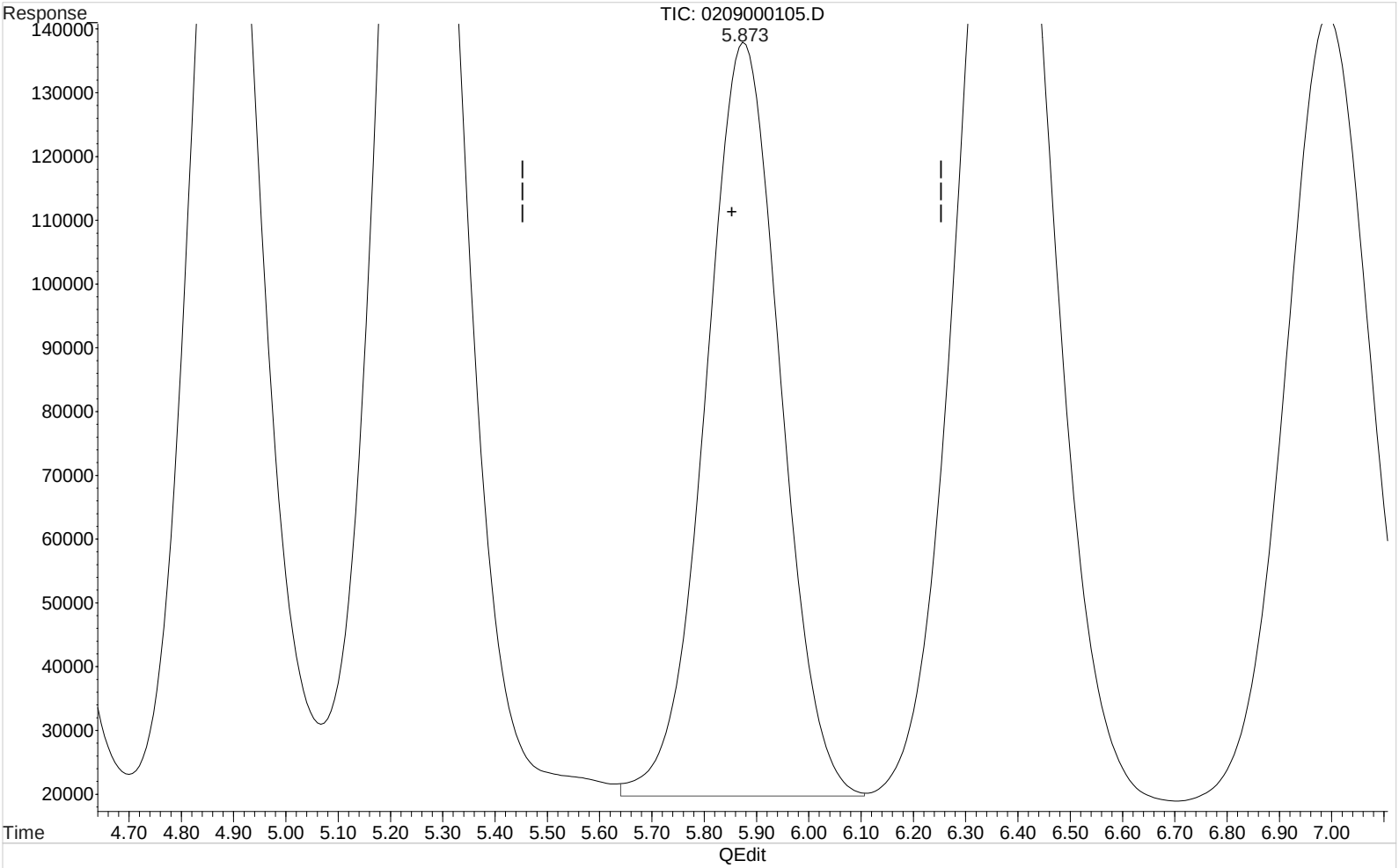
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.873min 49.902 ug/L m

response 1175129

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:21 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds							
11)	S	1-Chloro-3-Nitrobenzene	8.140	2657922	101.044	ug/L	
Target Compounds							
1)	T	HMX	2.553	1564147	99.582	ug/L	m
2)	T	RDX	2.800	1816656	101.172	ug/L	m
3)	T	Nitrobenzene	4.487	3709544	100.200	ug/L	m
4)	T	3,5-Dinitroaniline	5.247	4640472	100.360	ug/L	m
5)	T	4-Amino-2,6-DNT	4.867	3162039	99.946	ug/L	
6)	T	2-NT	5.867	2360051	100.252	ug/L	m
7)	T	2-Amino-4,6-DNT	6.367	4206003	100.723	ug/L	m
8)	T	3-NT	6.987	2804284	100.814	ug/L	
9)	T	1,3-DNB	9.140	5626152	101.488	ug/L	
10)	T	4-NT	7.853	2280814	100.351	ug/L	
12)	T	2,6-DNT	8.827	2426327	99.008	ug/L	
13)	T	2,4-DNT	14.820	5175598	101.753	ug/L	
14)	T	Tetryl	13.000	3027728	104.293	ug/L	
15)	T	1,3,5-TNB	19.807	4146878	101.012	ug/L	
16)	T	2,4,6-TNT	20.793	3878263	100.435	ug/L	

(f)=RT Delta > 1/2 Window (m)=manual int.

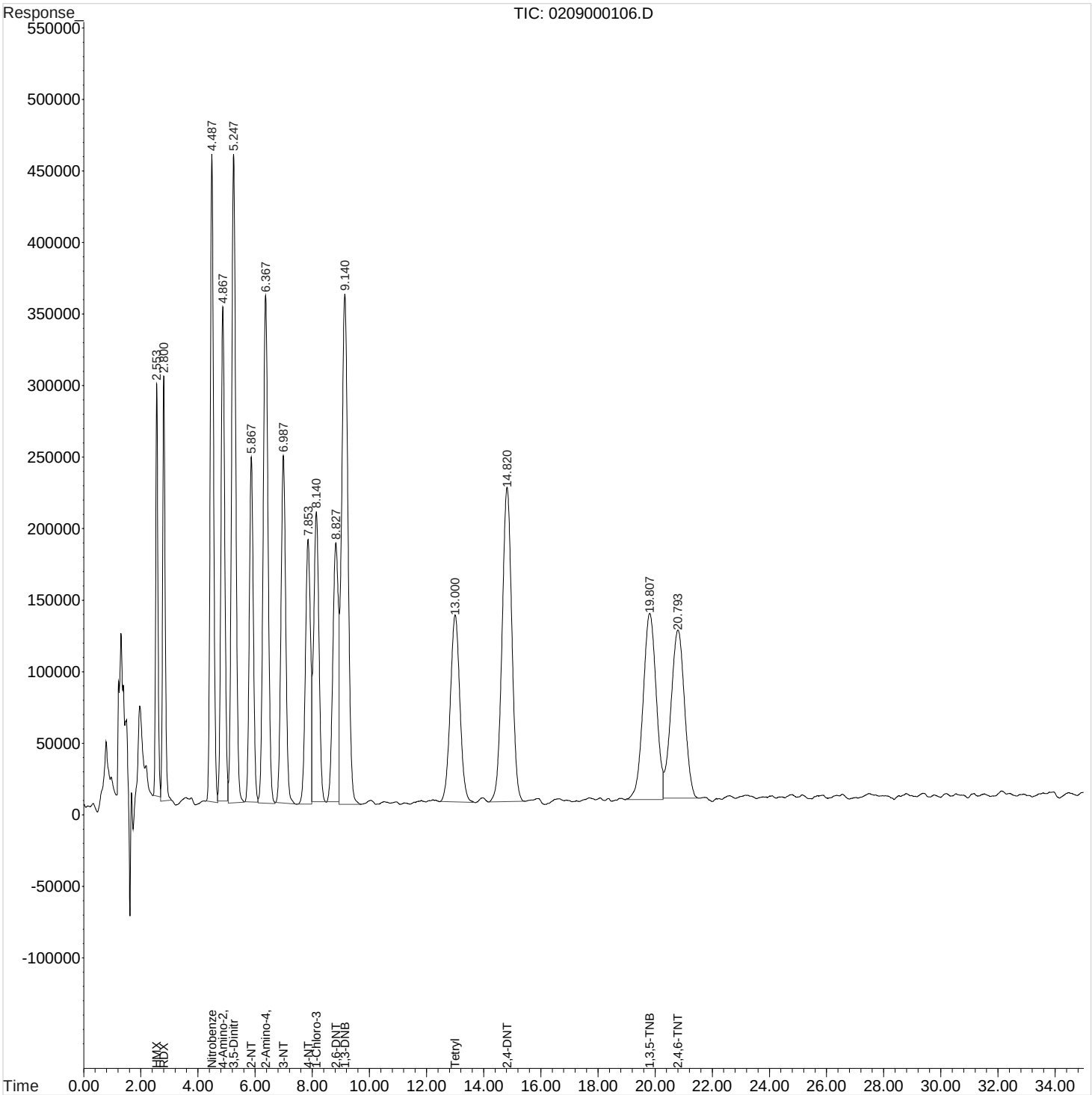
(b) (6)

02/13/17
02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:21 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

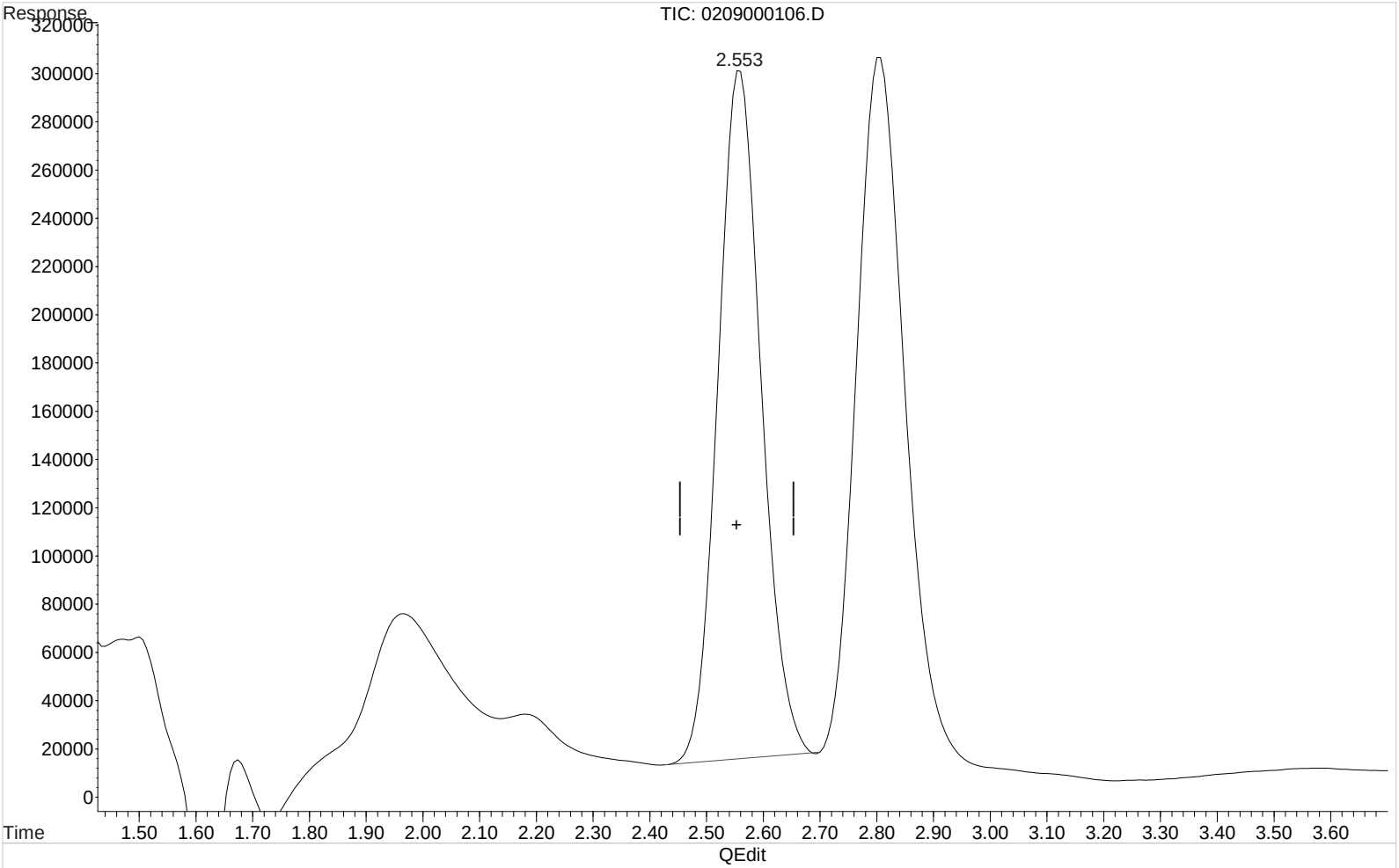


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.553min 96.655 ug/L

response 1518161

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

(b) (6)

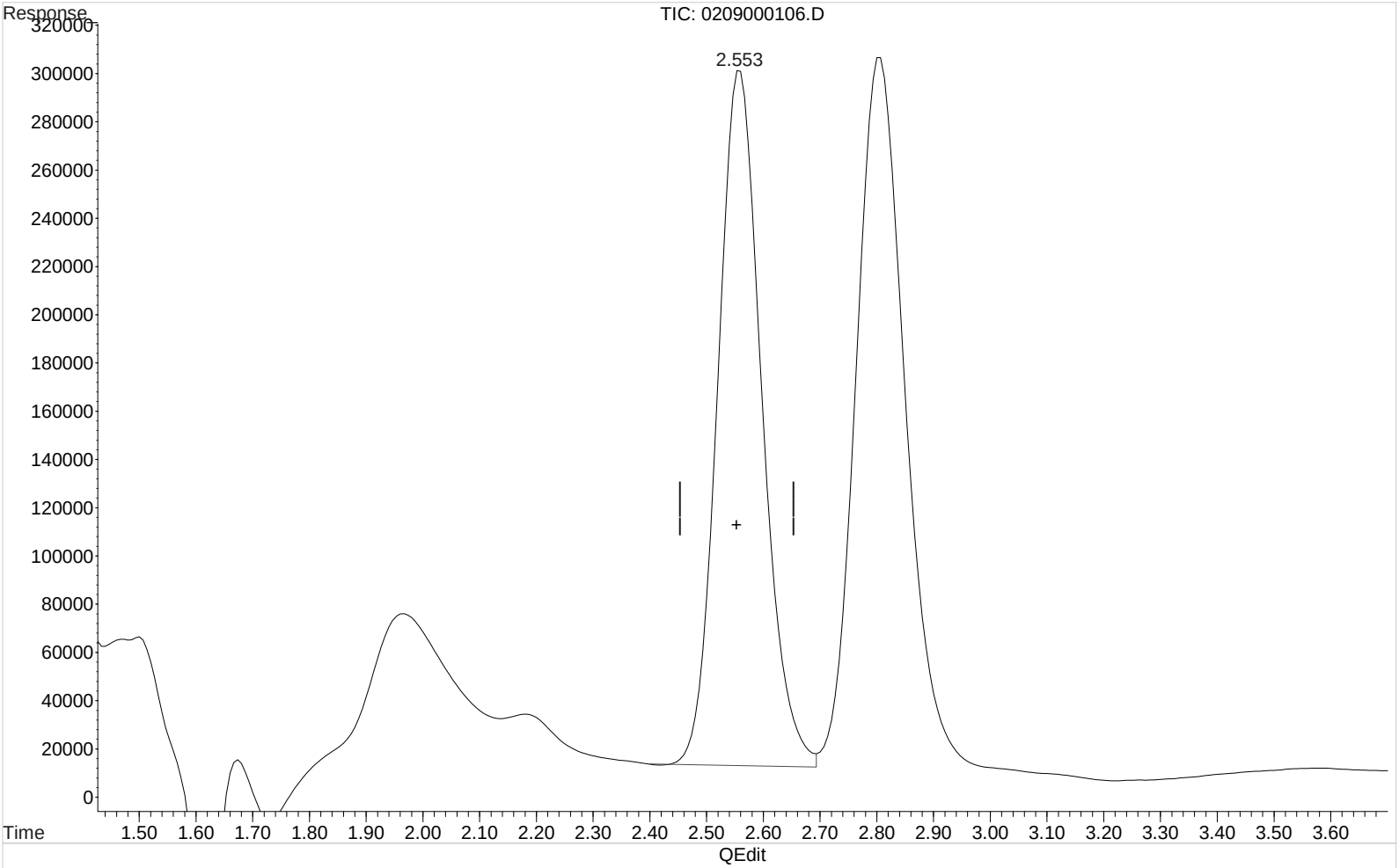
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.553min 99.582 ug/L m

response 1564147

Manual Integration:

After

BLC

02/13/17

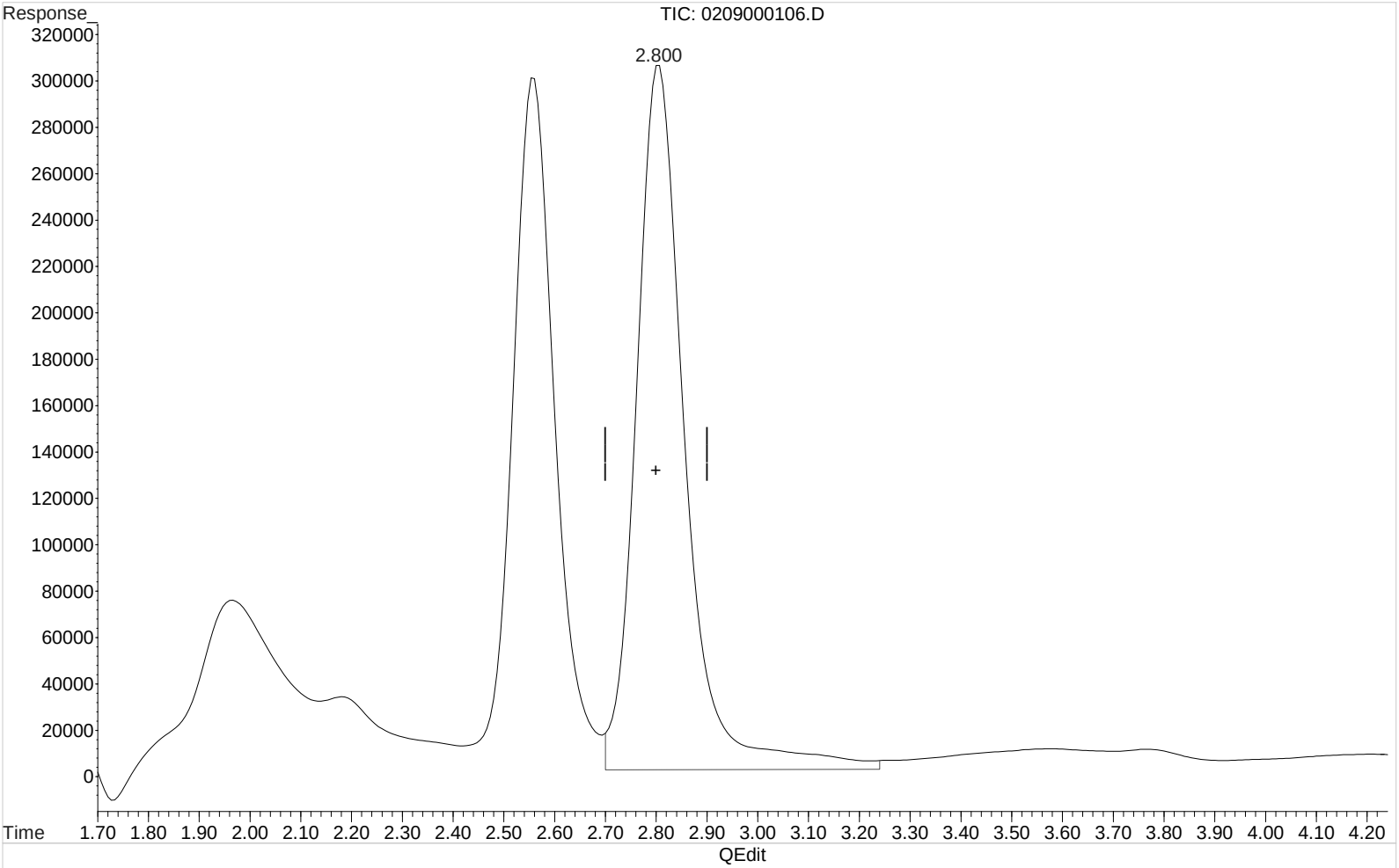
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(2) RDX (T)

2.800min 112.506 ug/L

response 2020163

Manual Integration:

Before

02/13/17

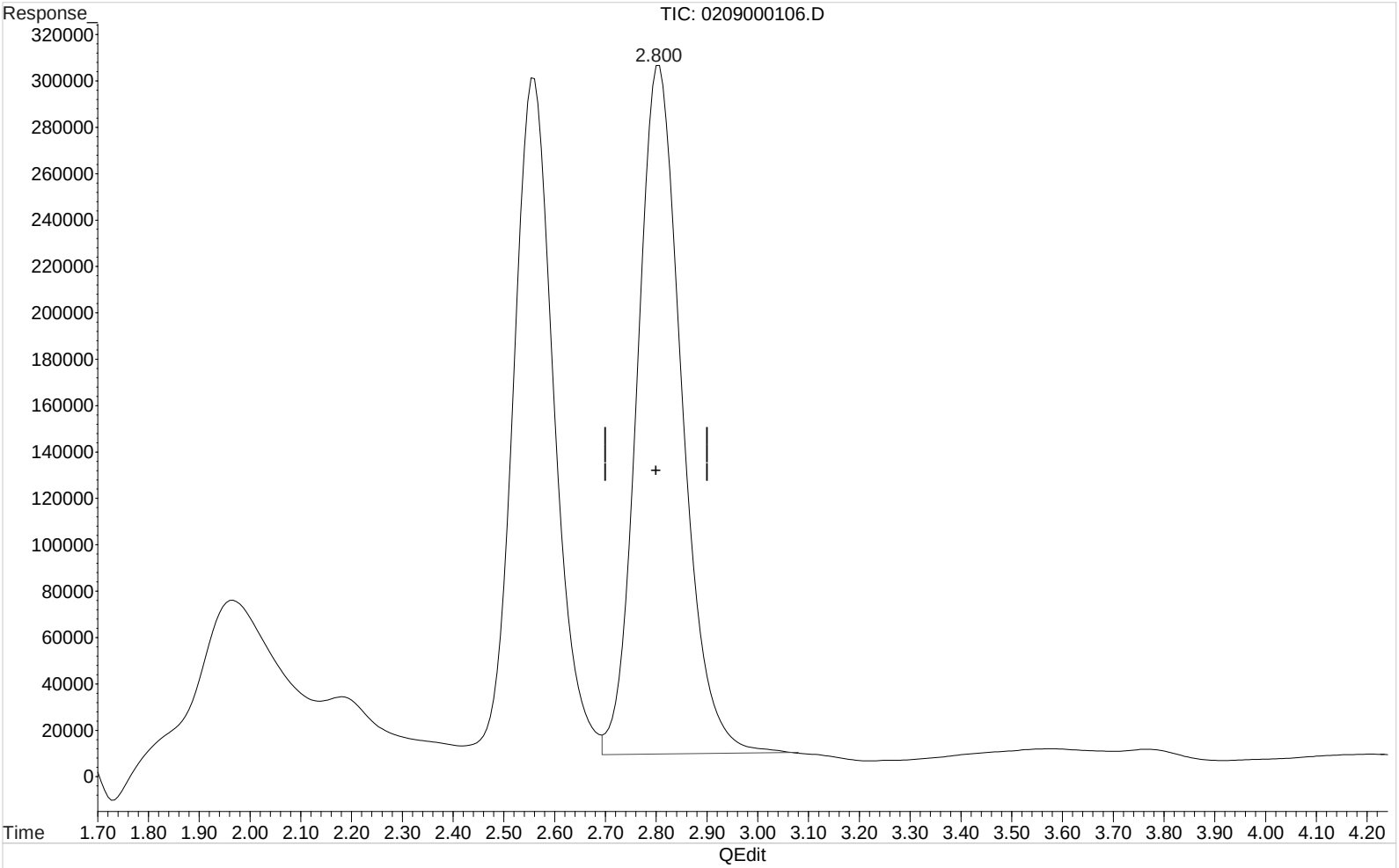
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(2) RDX (T)

2.800min 101.172 ug/L m

response 1816656

Manual Integration:

After

BLC

02/13/17

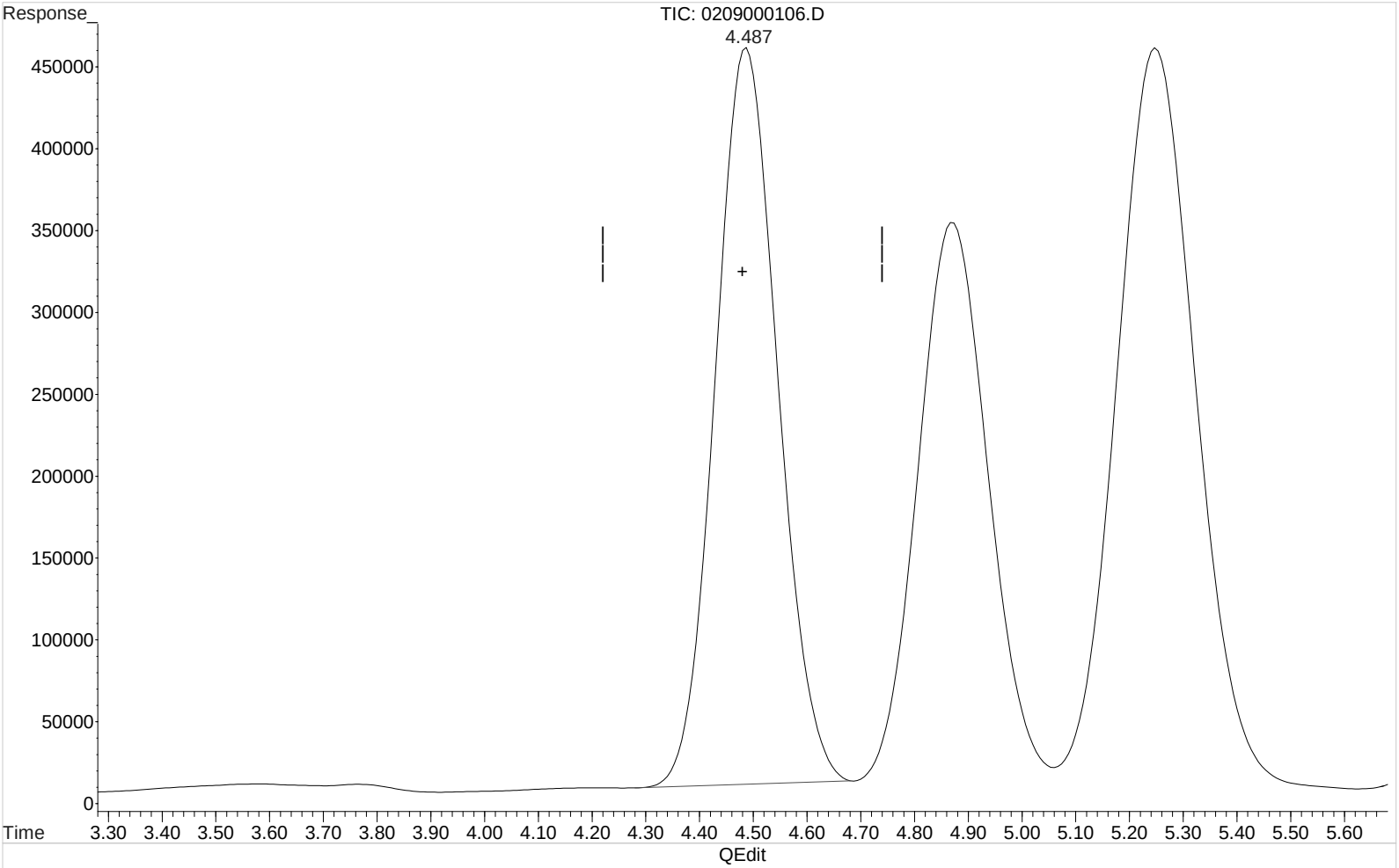
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 98.379 ug/L

response 3642131

Manual Integration:

Before

02/13/17

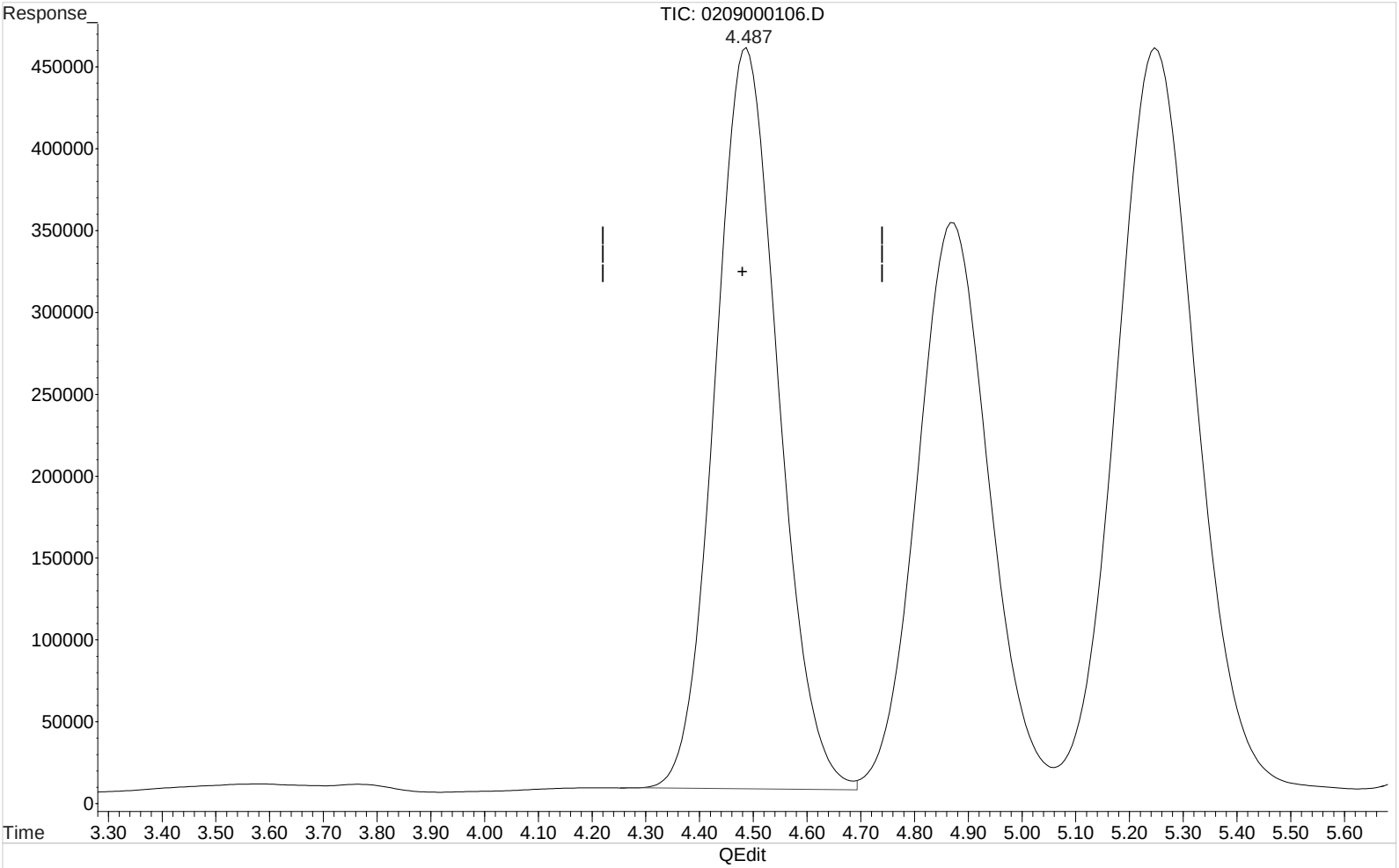
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 100.200 ug/L m

response 3709544

Manual Integration:

After

BLC

02/13/17

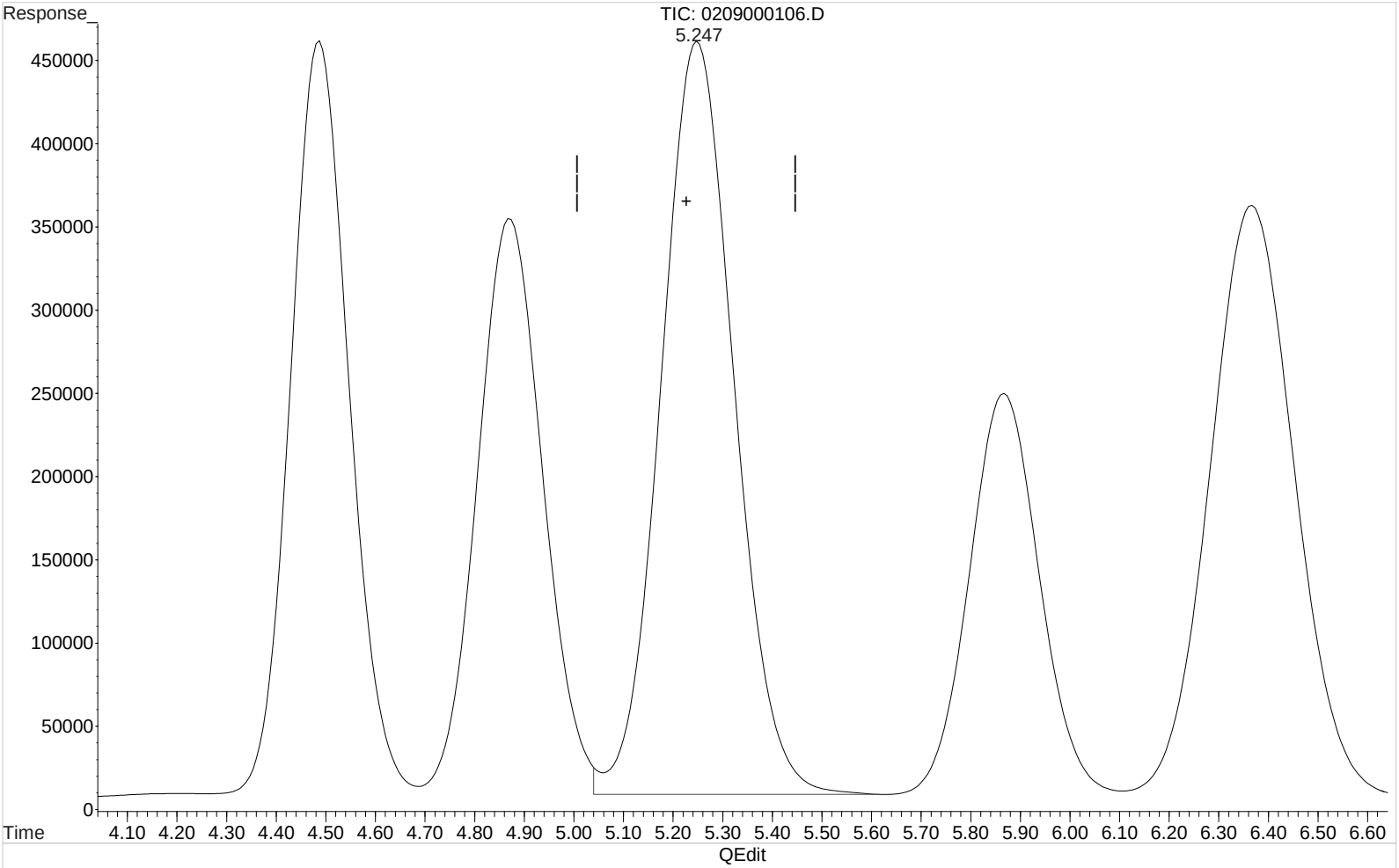
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(4) 3,5-Dinitroaniline (T)

5.247min 100.244 ug/L

response 4635102

Manual Integration:

Before

02/13/17

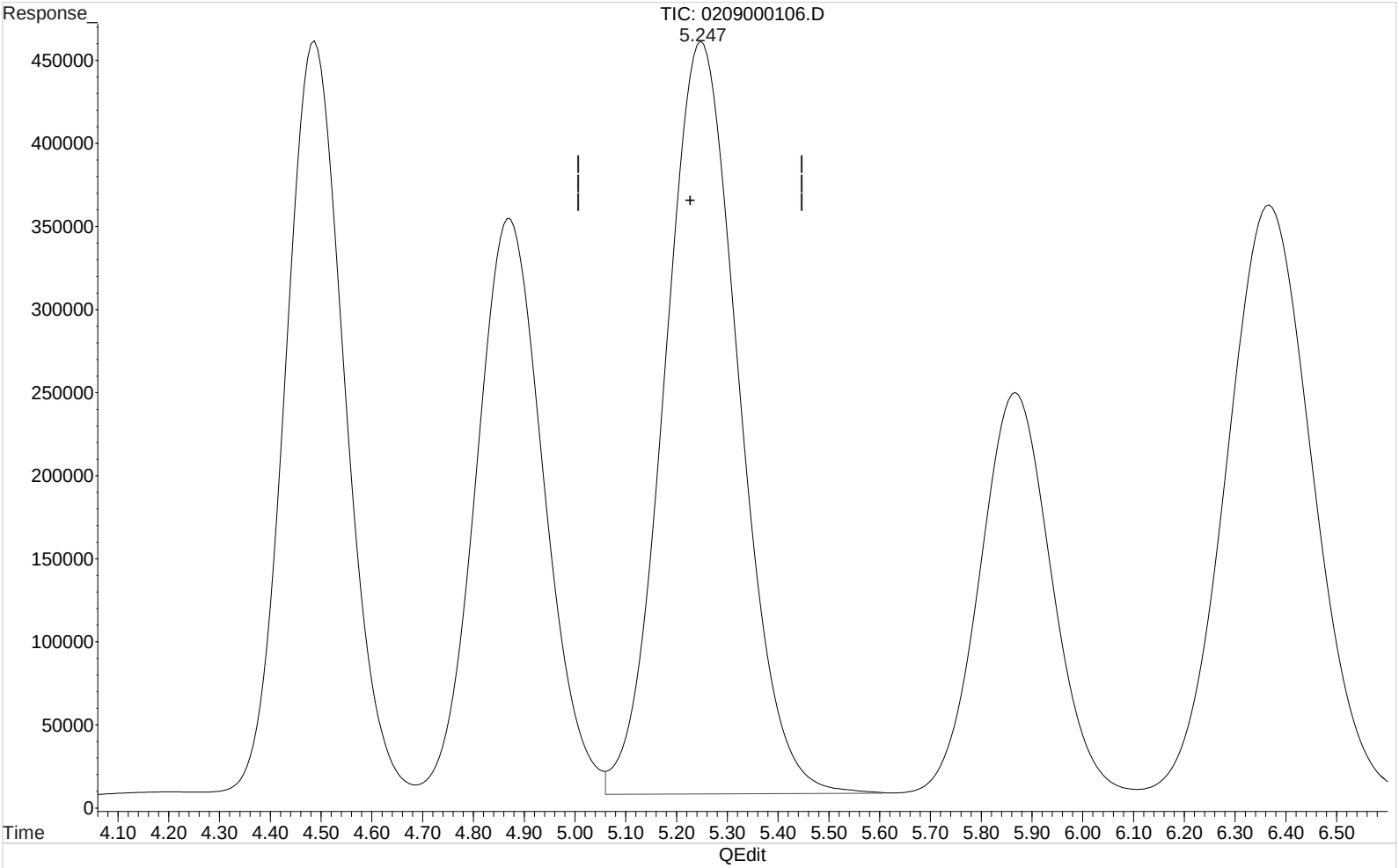
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:21 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(4) 3,5-Dinitroaniline (T)

5.247min 100.360 ug/L m

response 4640472

Manual Integration:

After

BLC

02/13/17

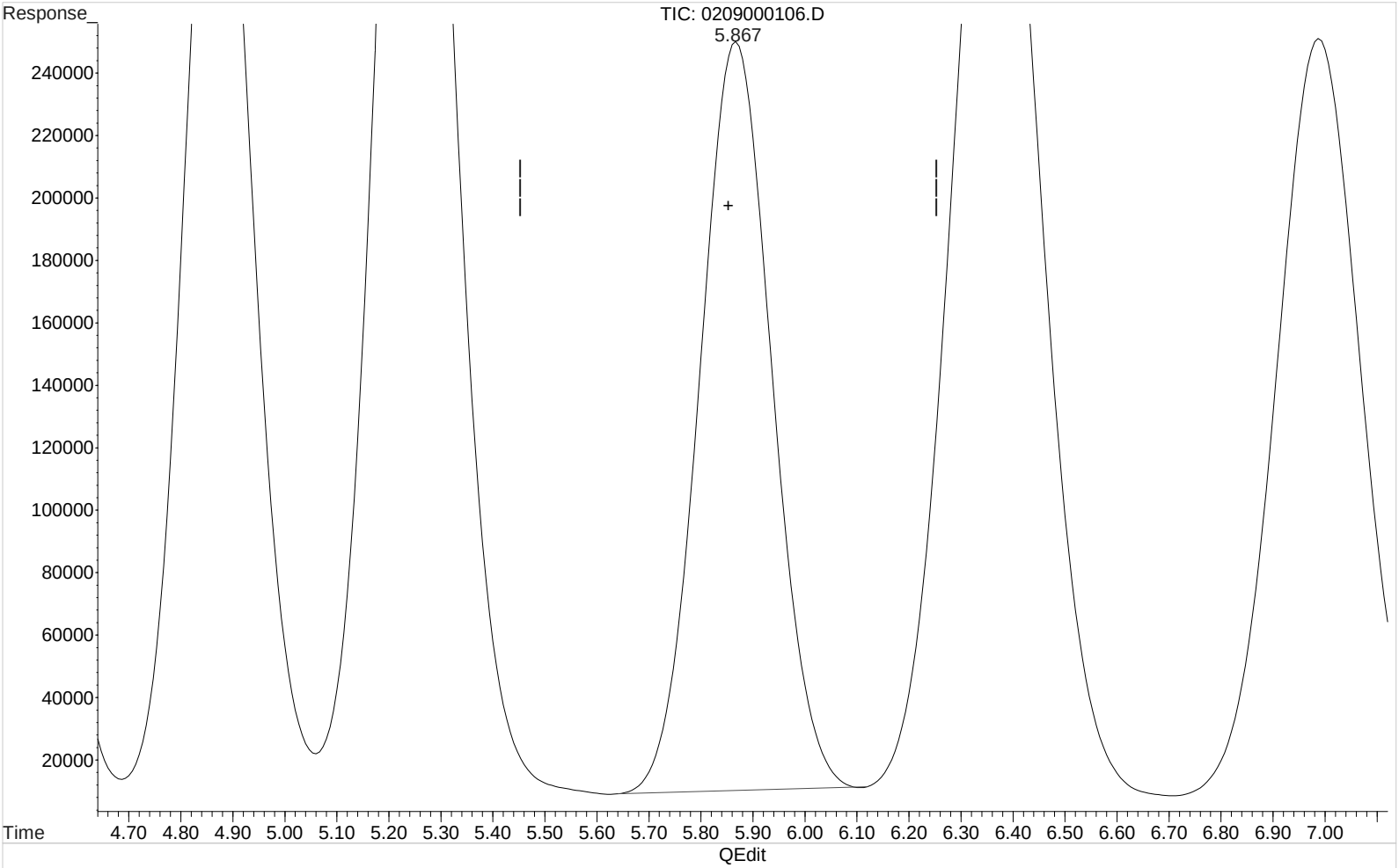
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.867min 98.817 ug/L

response 2326248

Manual Integration:

Before

02/13/17

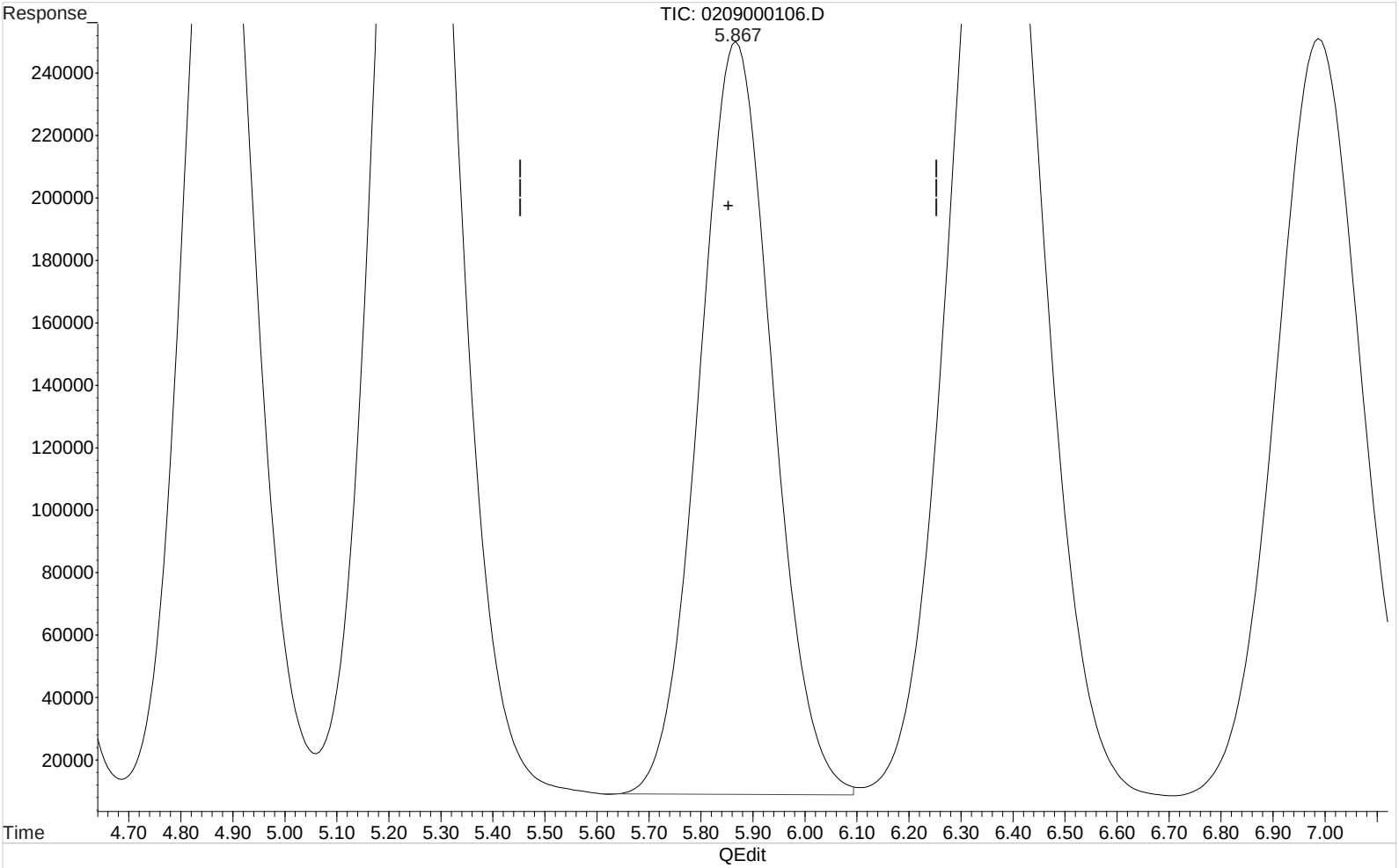
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.867min 100.252 ug/L m

response 2360051

Manual Integration:

After

BLC

02/13/17

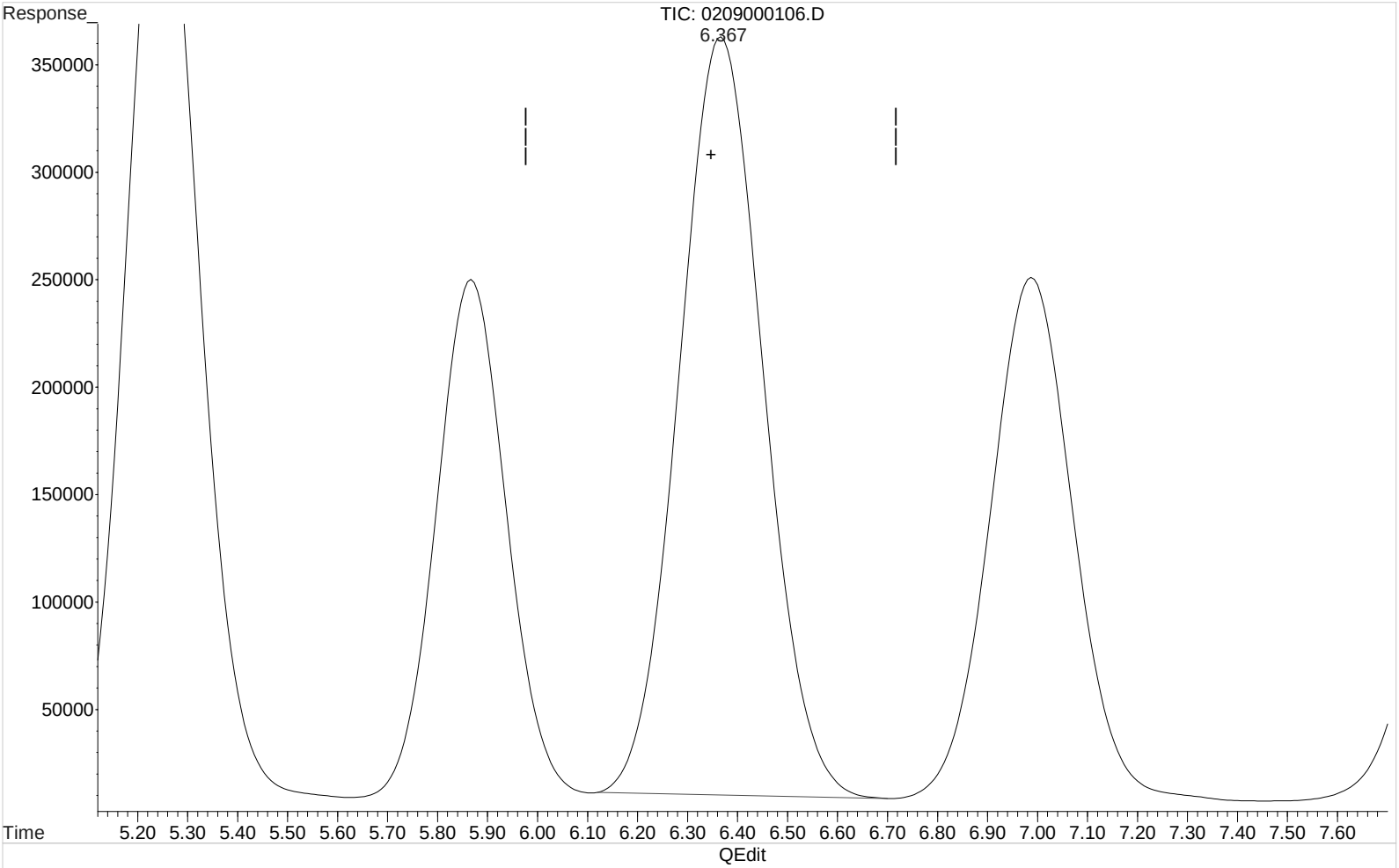
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.367min 99.082 ug/L

response 4137499

Manual Integration:

Before

02/13/17

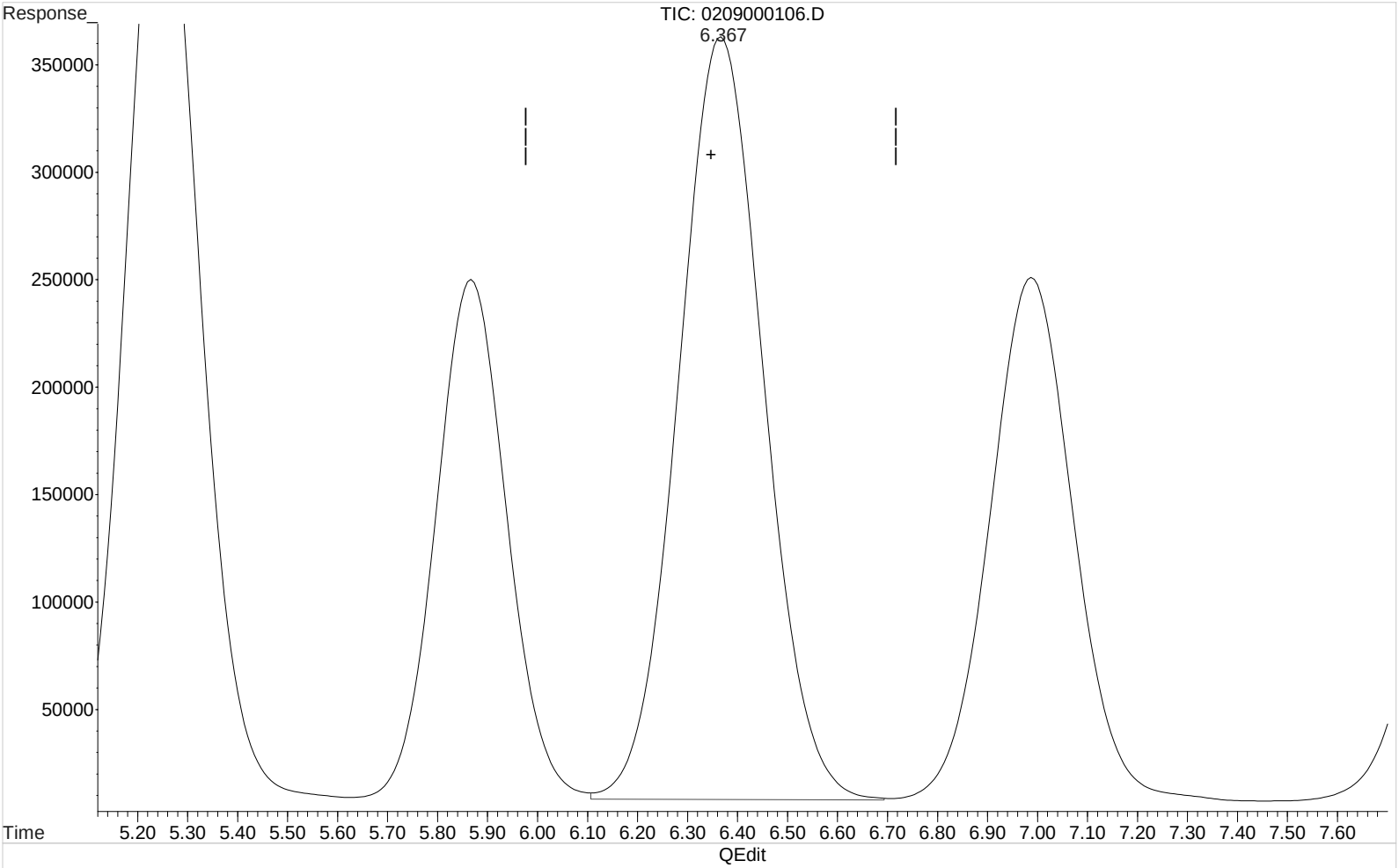
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(7) 2-Amino-4,6-DNT (T)

6.367min 100.723 ug/L m

response 4206003

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:02:59 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
11) S	1-Chloro-3-Nitrobenzene	8.133	5220675	198.216	ug/L	
	Target Compounds					
1) T	HMX	2.553	3190741	203.674	ug/L	m
2) T	RDX	2.800	3669487	205.104	ug/L	m
3) T	Nitrobenzene	4.487	7378721	199.195	ug/L	m
4) T	3,5-Dinitroaniline	5.240	9267786	200.507	ug/L	
5) T	4-Amino-2,6-DNT	4.867	6395822	202.523	ug/L	
6) T	2-NT	5.860	4647246	196.985	ug/L	m
7) T	2-Amino-4,6-DNT	6.360	8414458	201.757	ug/L	m
8) T	3-NT	6.980	5578596	200.643	ug/L	m
9) T	1,3-DNB	9.133	11230158	203.013	ug/L	
10) T	4-NT	7.847	4460100	195.620	ug/L	
12) T	2,6-DNT	8.820	4883983	199.176	ug/L	
13) T	2,4-DNT	14.813	10333460	203.692	ug/L	
14) T	Tetryl	13.000	5723089	196.668	ug/L	
15) T	1,3,5-TNB	19.820	8131157	197.745	ug/L	
16) T	2,4,6-TNT	20.800	7763771	201.236	ug/L	

(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)

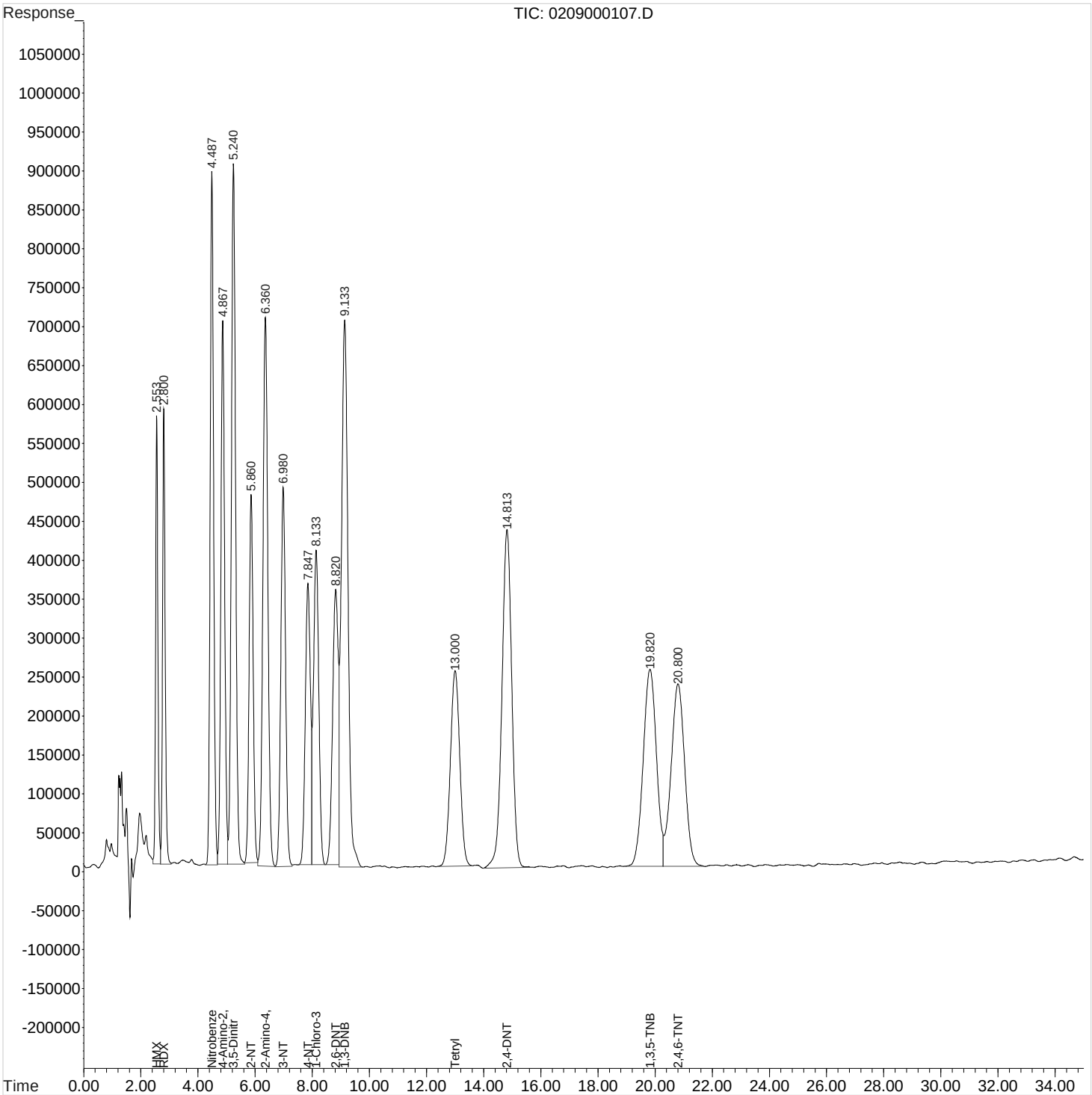
2/13/17

2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:02:59 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(b) (6)

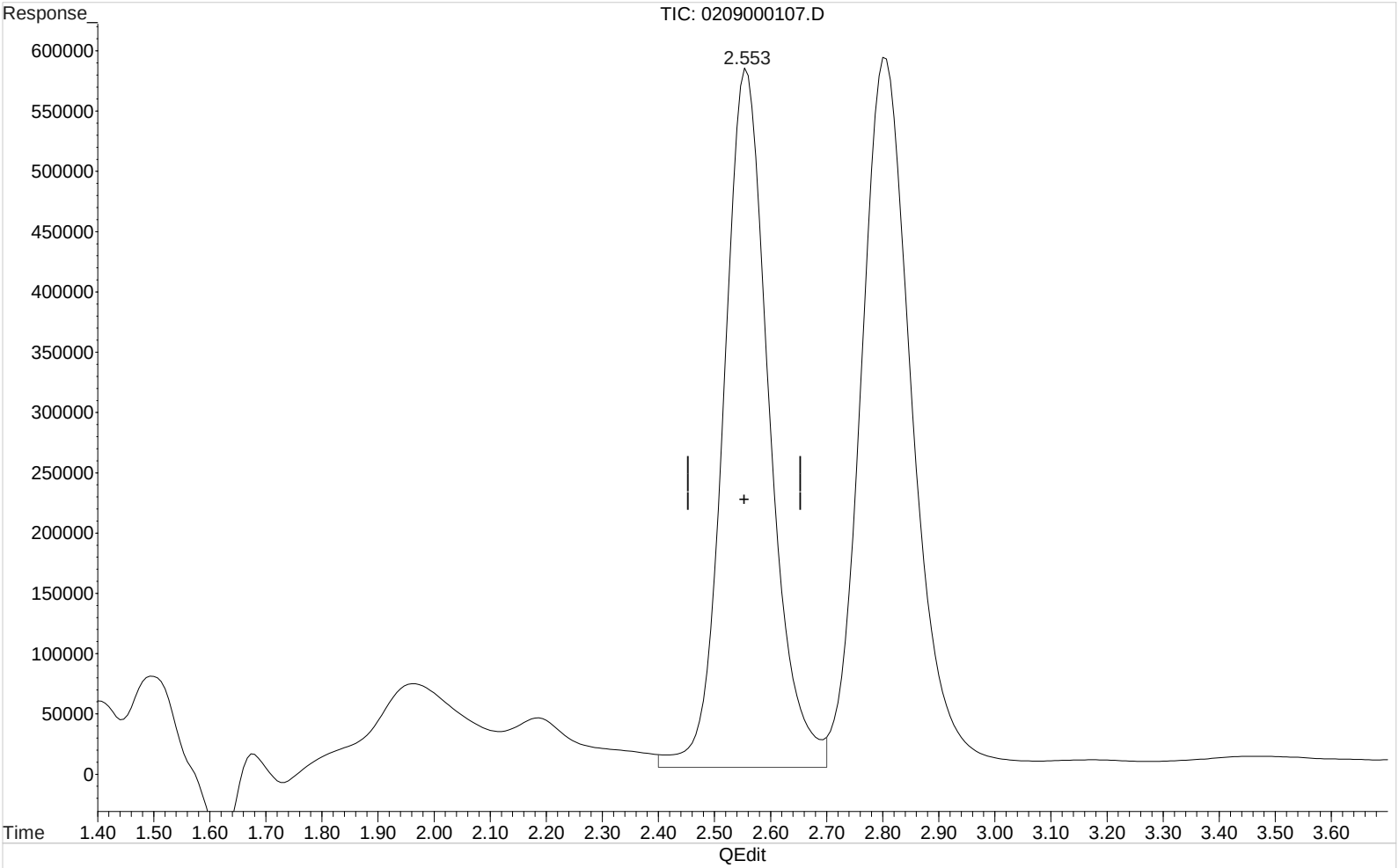
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.553min 209.905 ug/L

response 3288352

Manual Integration:

Before

02/13/17

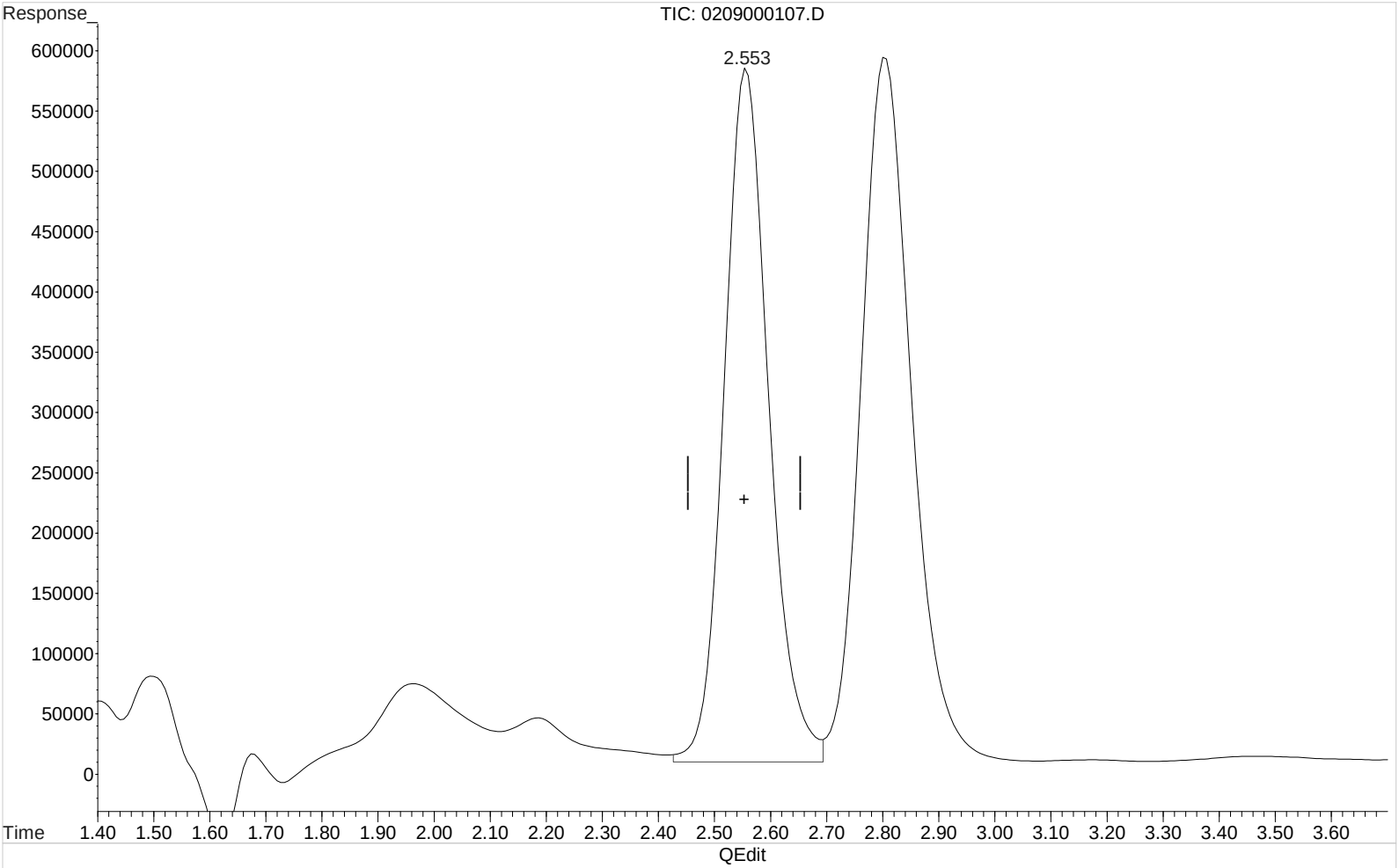
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(1) HMX (T)

2.553min 203.674 ug/L m

response 3190741

Manual Integration:

After

BLC

02/13/17

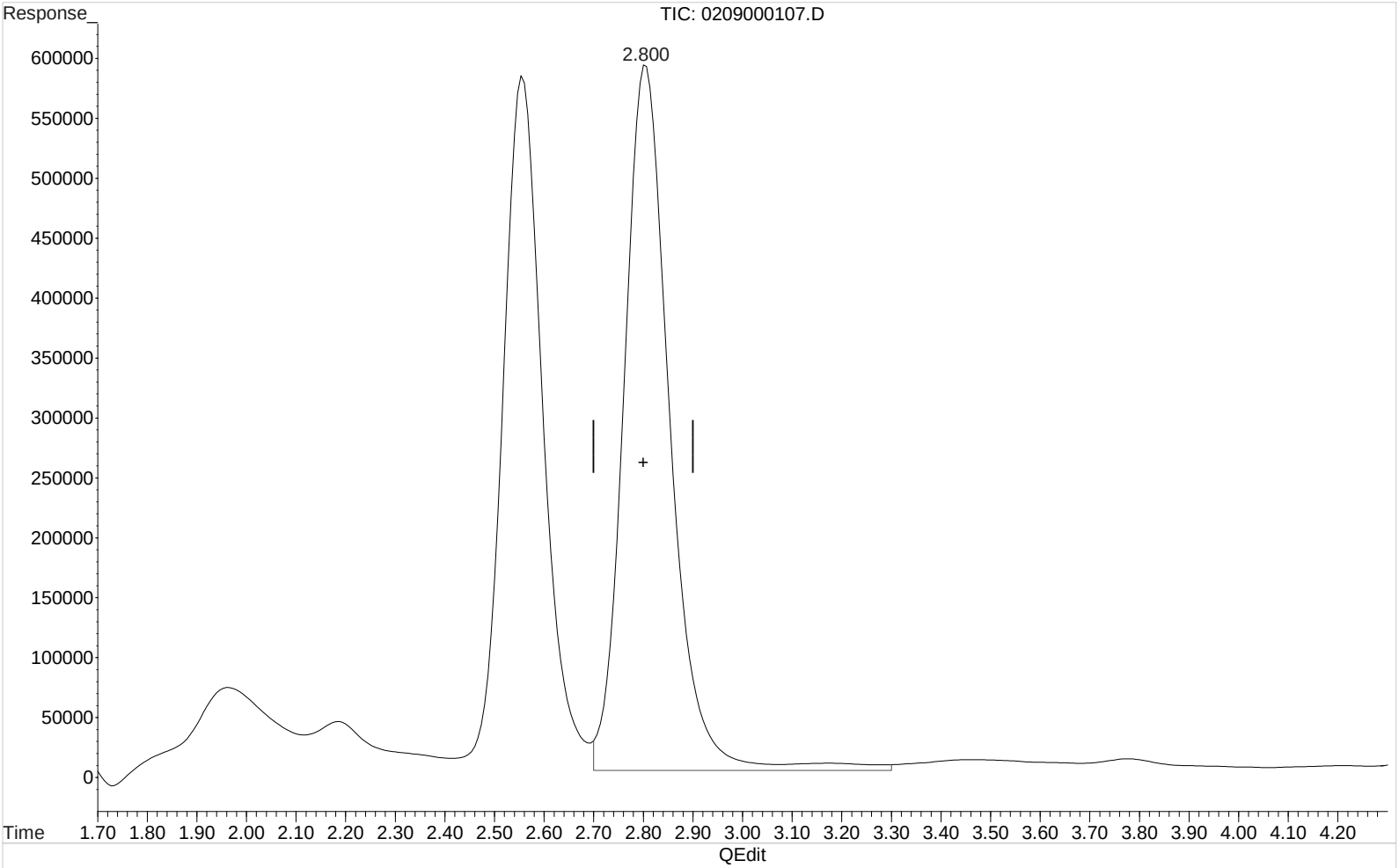
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.800min 213.070 ug/L

response 3812015

Manual Integration:

Before

02/13/17

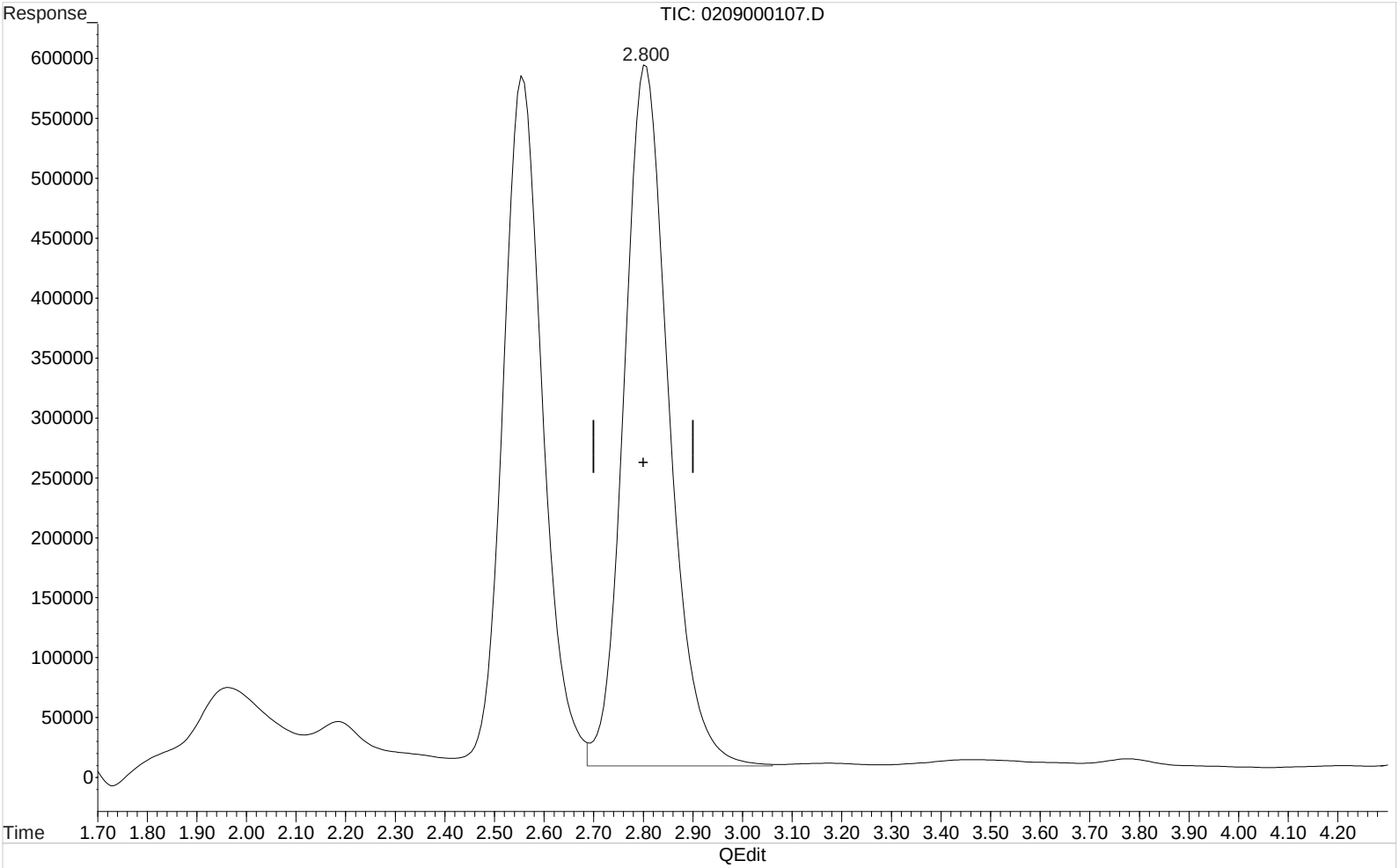
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.800min 205.104 ug/L m

response 3669487

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

(b) (6)

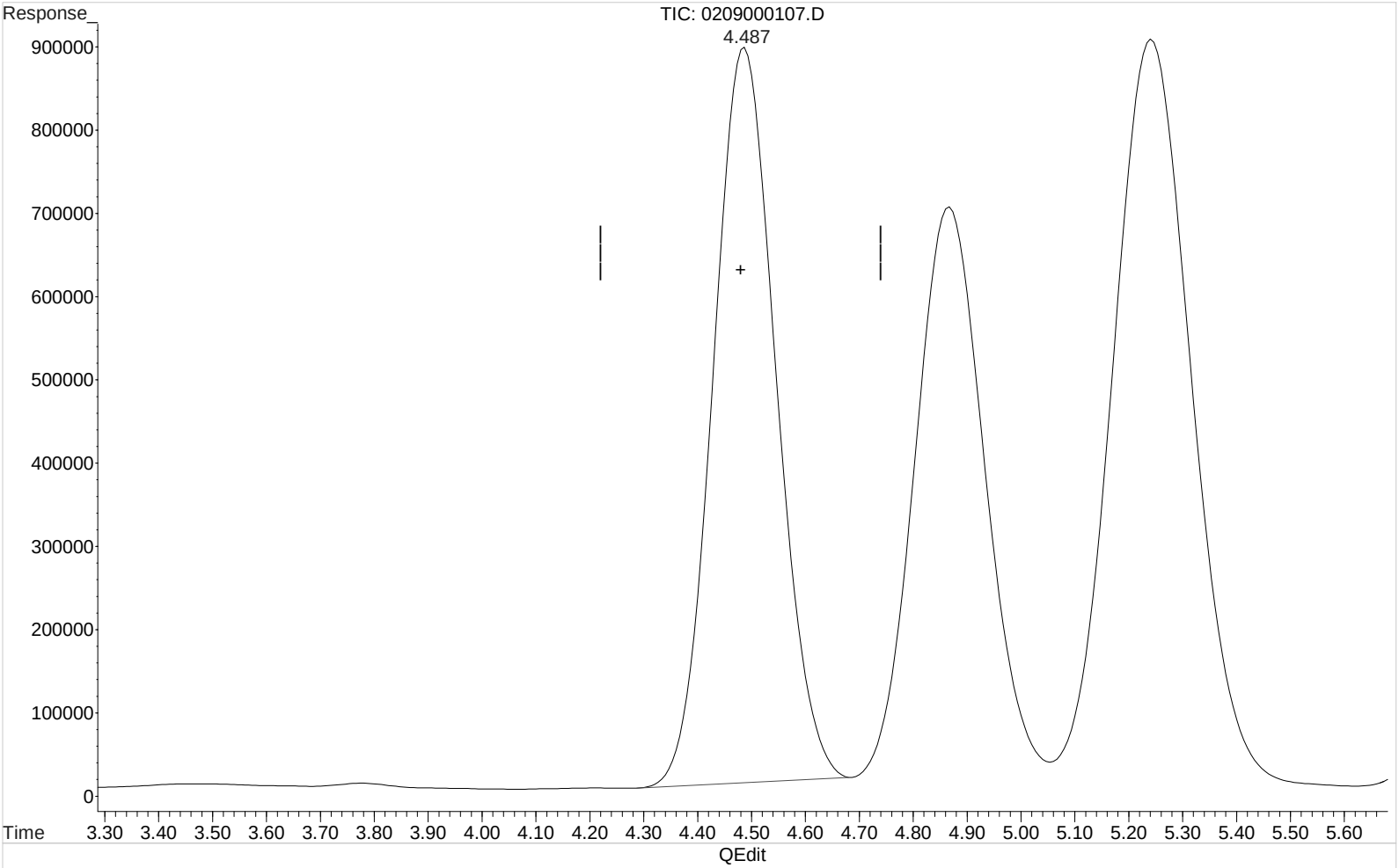
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(3) Nitrobenzene (T)

4.487min 194.479 ug/L

response 7204041

Manual Integration:

Before

02/13/17

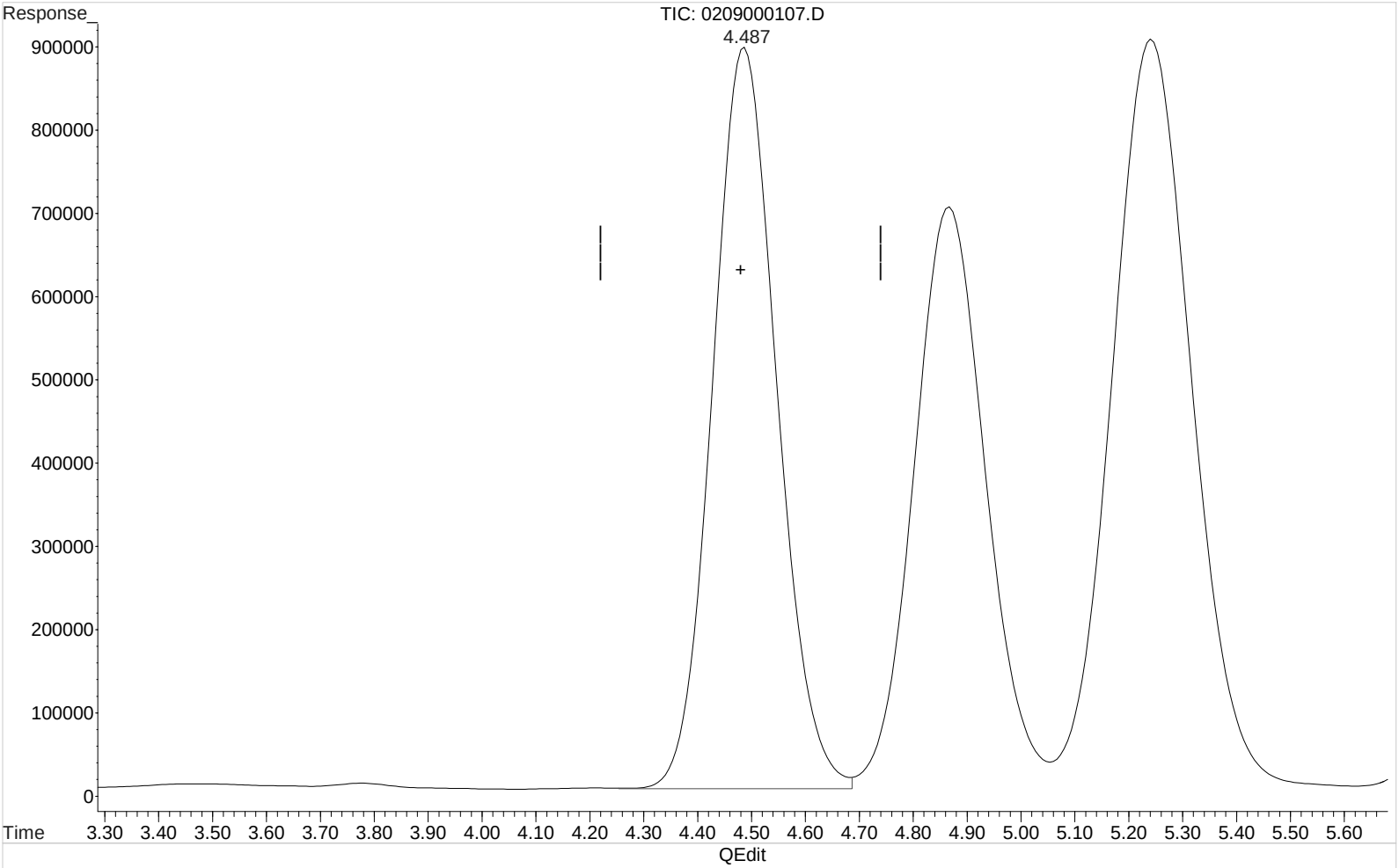
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 199.195 ug/L m

response 7378721

Manual Integration:

After

BLC

02/13/17

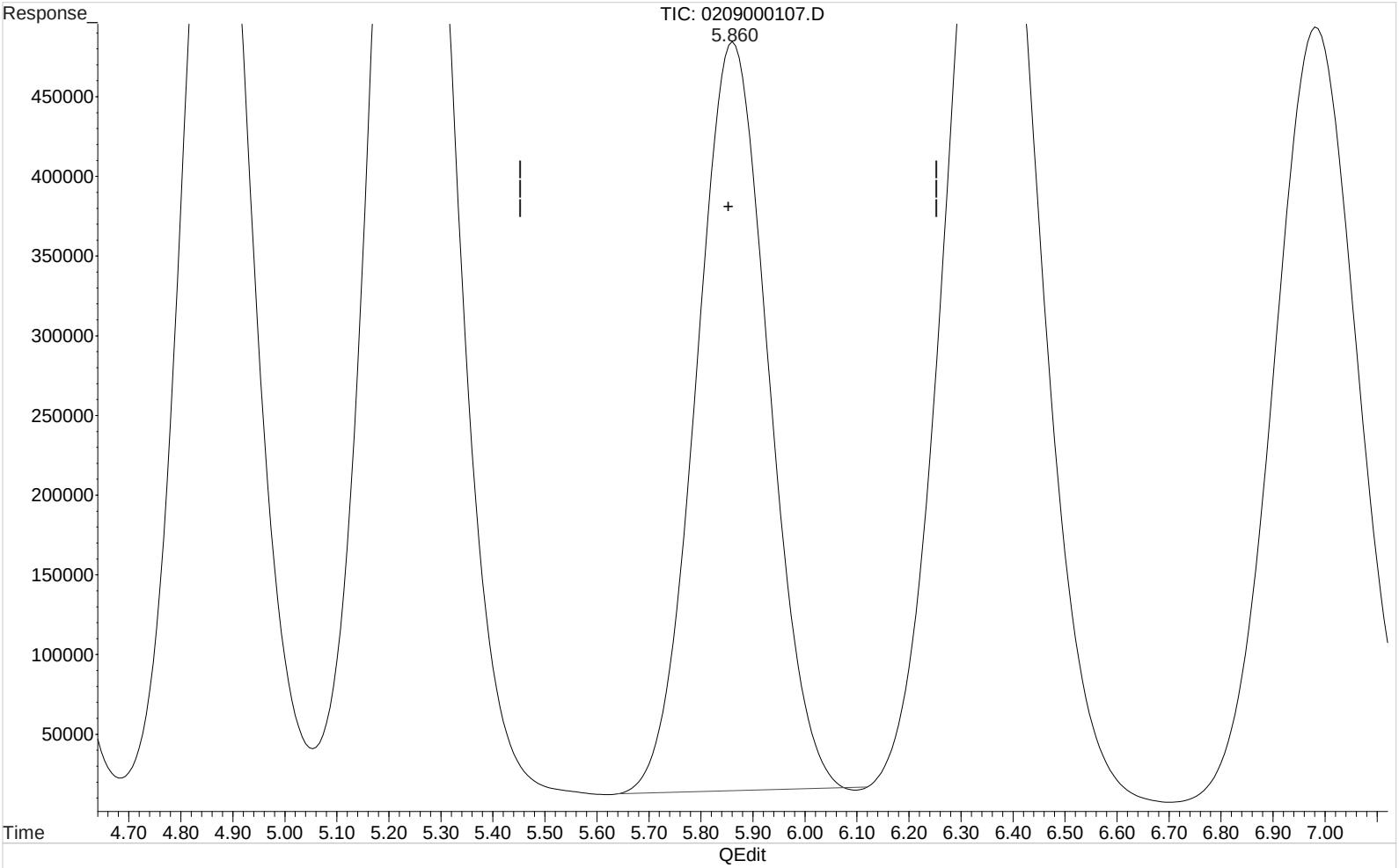
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.860min 193.337 ug/L

response 4561182

Manual Integration:

Before

02/13/17

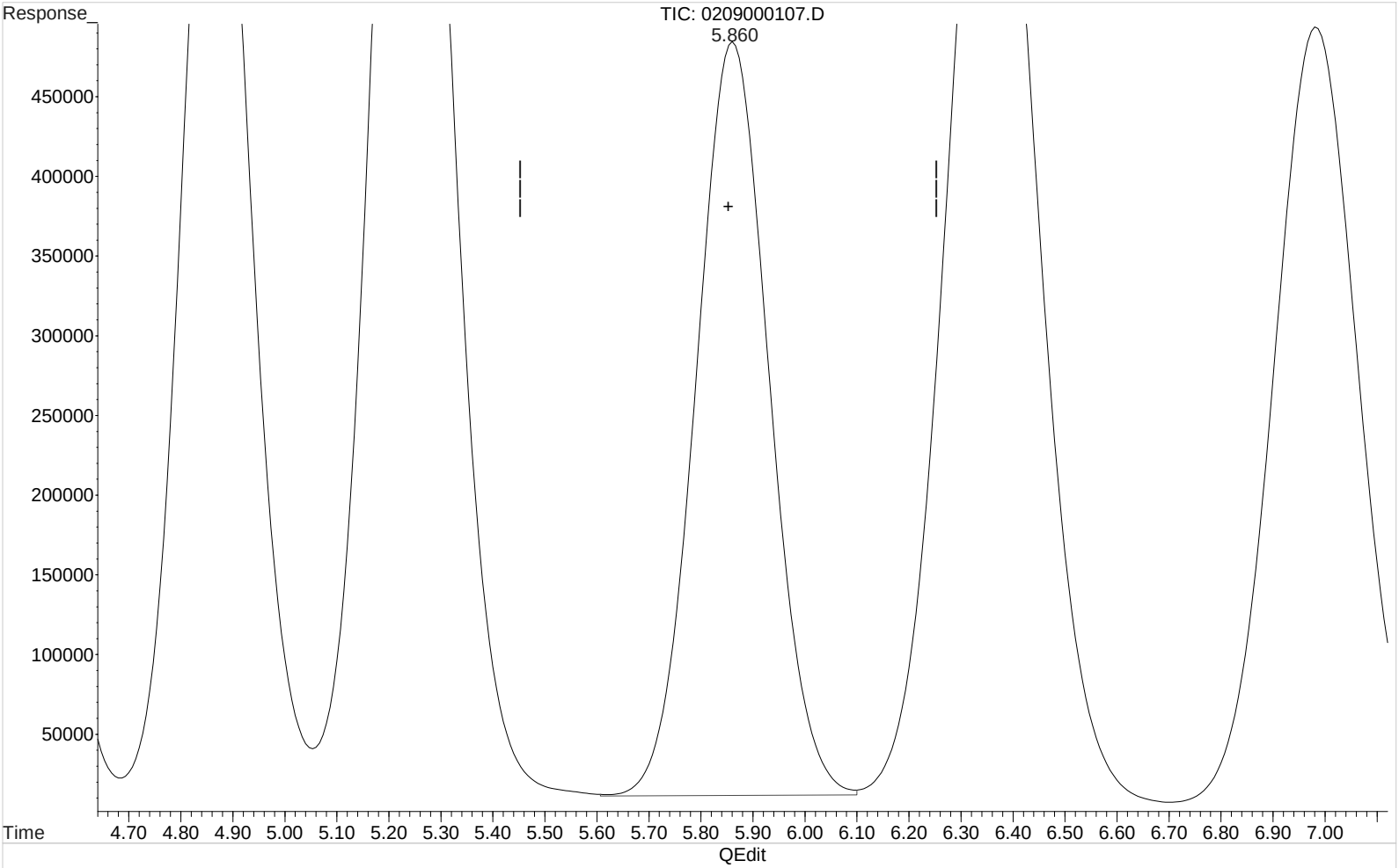
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.860min 196.985 ug/L m

response 4647246

Manual Integration:

After

BLC

02/13/17

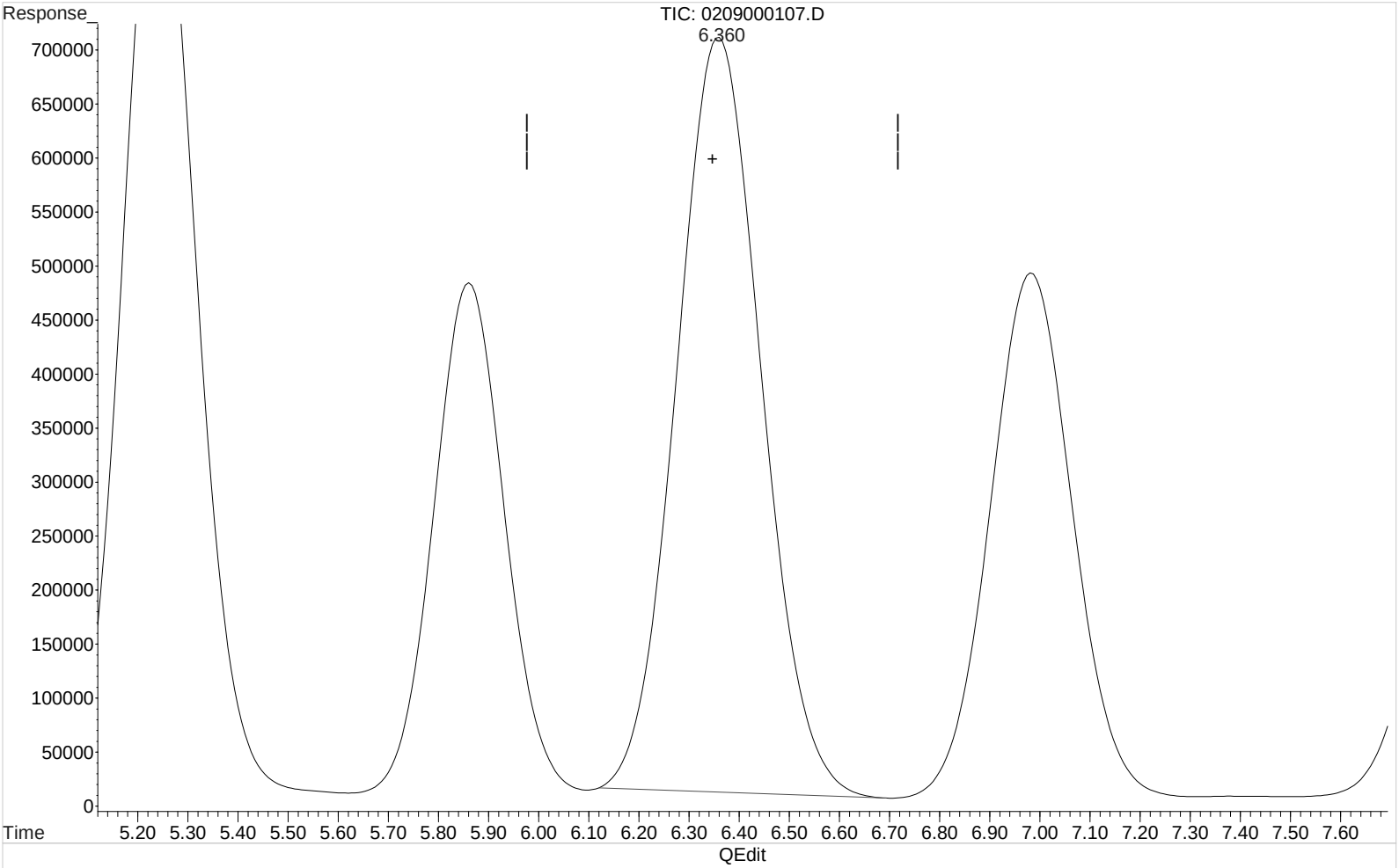
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(7) 2-Amino-4,6-DNT (T)

6.360min 197.248 ug/L

response 8226412

Manual Integration:

Before

02/13/17

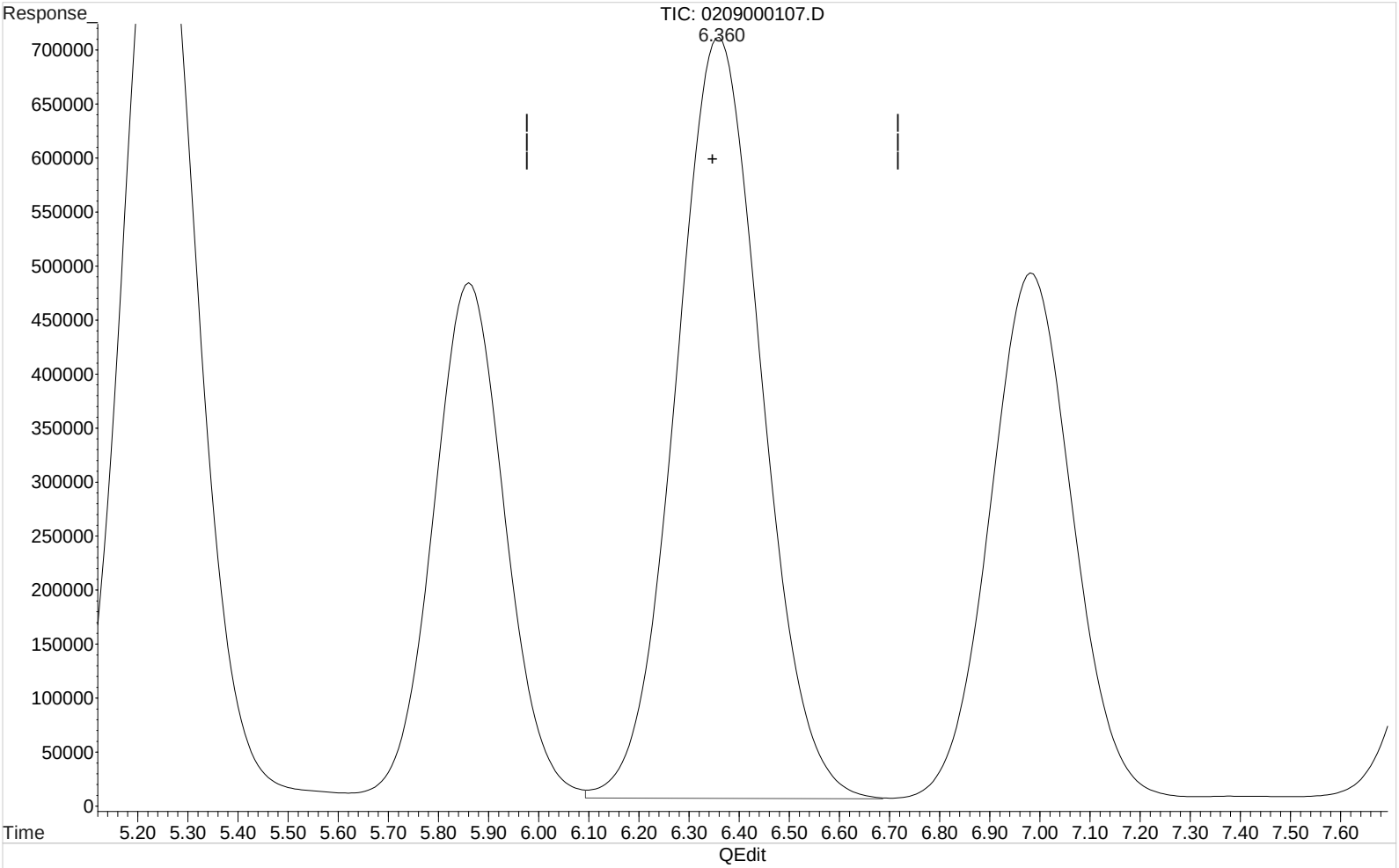
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(7) 2-Amino-4,6-DNT (T)

6.360min 201.757 ug/L m

response 8414458

Manual Integration:

After

BLC

02/13/17

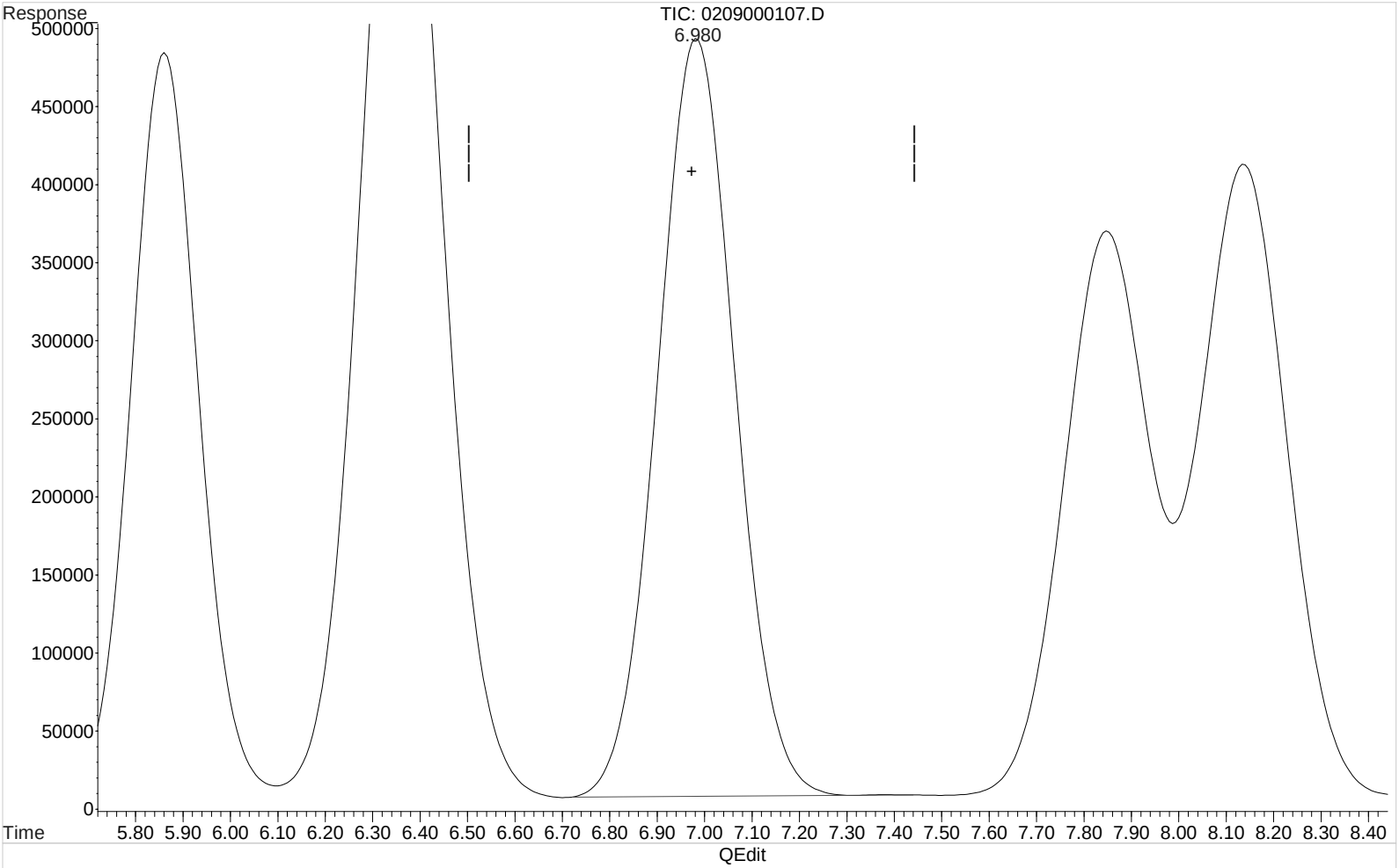
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(8) 3-NT (T)

6.980min 198.747 ug/L

response 5525861

Manual Integration:

Before

02/13/17

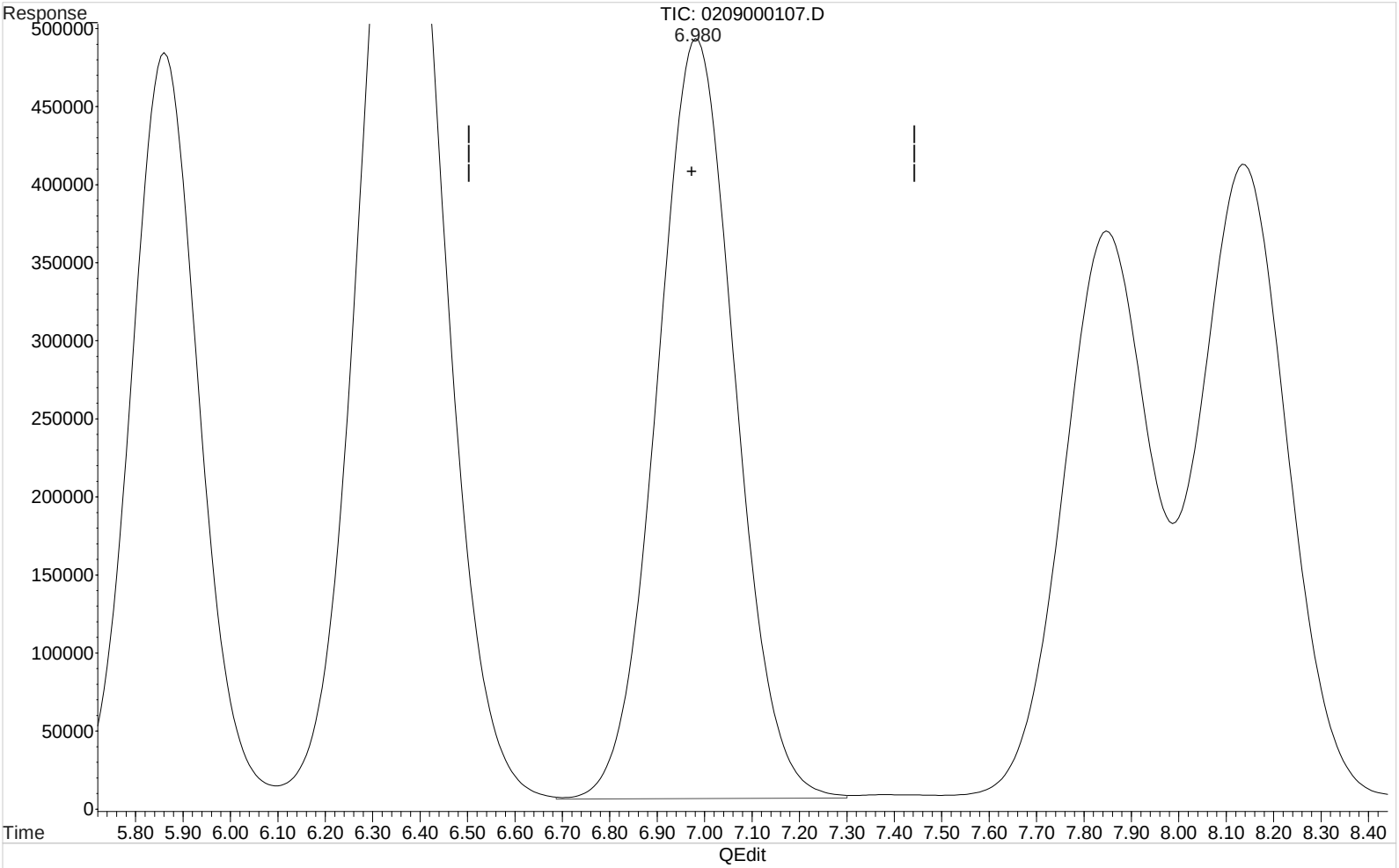
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(8) 3-NT (T)

6.980min 200.643 ug/L m

response 5578596

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:00:13 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds							
11)	S	1-Chloro-3-Nitrobenzene	8.153	13230585	502.803	ug/L	m
Target Compounds							
1)	T	HMX	2.560	7981926	511.454	ug/L	m
2)	T	RDX	2.807	9178077	515.685	ug/L	m
3)	T	Nitrobenzene	4.493	18916422	512.854	ug/L	m
4)	T	3,5-Dinitroaniline	5.253	23535159	511.057	ug/L	m
5)	T	4-Amino-2,6-DNT	4.880	16219825	516.408	ug/L	m
6)	T	2-NT	5.873	11974356	509.102	ug/L	m
7)	T	2-Amino-4,6-DNT	6.373	21311094	513.240	ug/L	m
8)	T	3-NT	6.993	14136686	510.173	ug/L	
9)	T	1,3-DNB	9.147	28581861	520.162	ug/L	
10)	T	4-NT	7.860	11759716	519.059	ug/L	m
12)	T	2,6-DNT	8.833	12553164	514.394	ug/L	m
13)	T	2,4-DNT	14.840	25979956	514.609	ug/L	
14)	T	Tetryl	13.020	14255446	487.896	ug/L	m
15)	T	1,3,5-TNB	19.840	21117484	516.366	ug/L	
16)	T	2,4,6-TNT	20.820	19559701	508.406	ug/L	

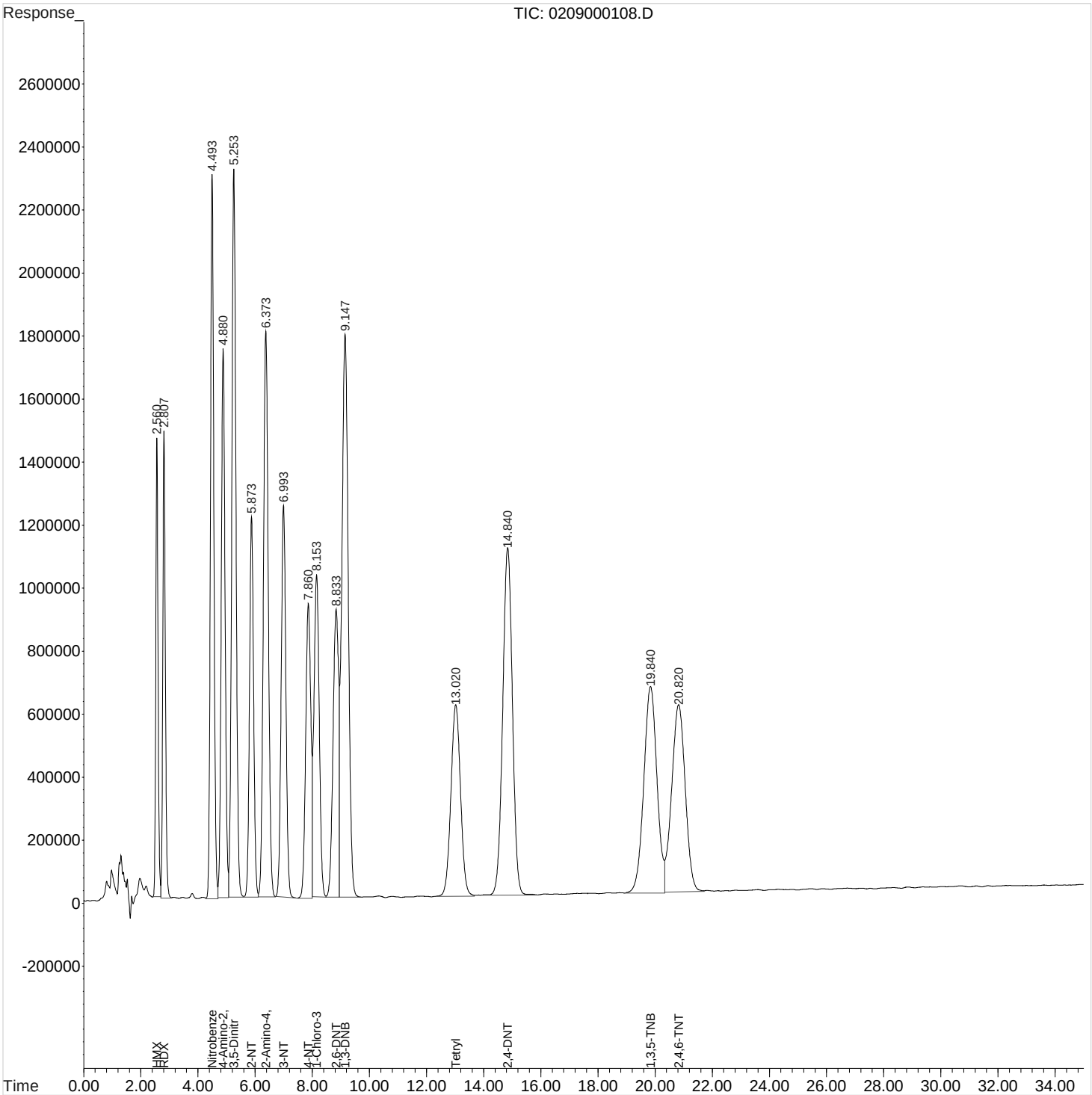
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:00:13 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

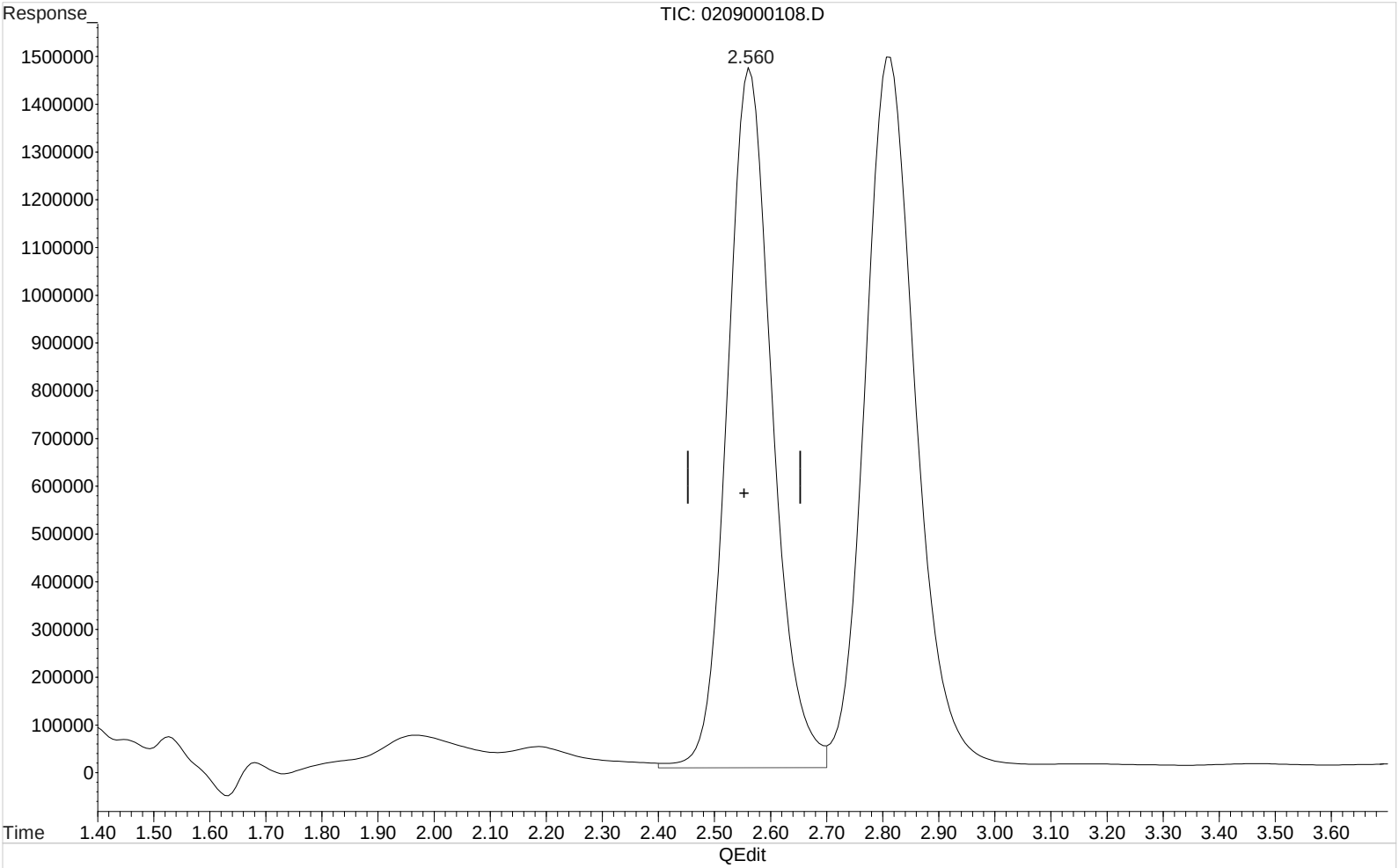


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.560min 523.210 ug/L

response 8165394

Manual Integration:

Before

02/13/17

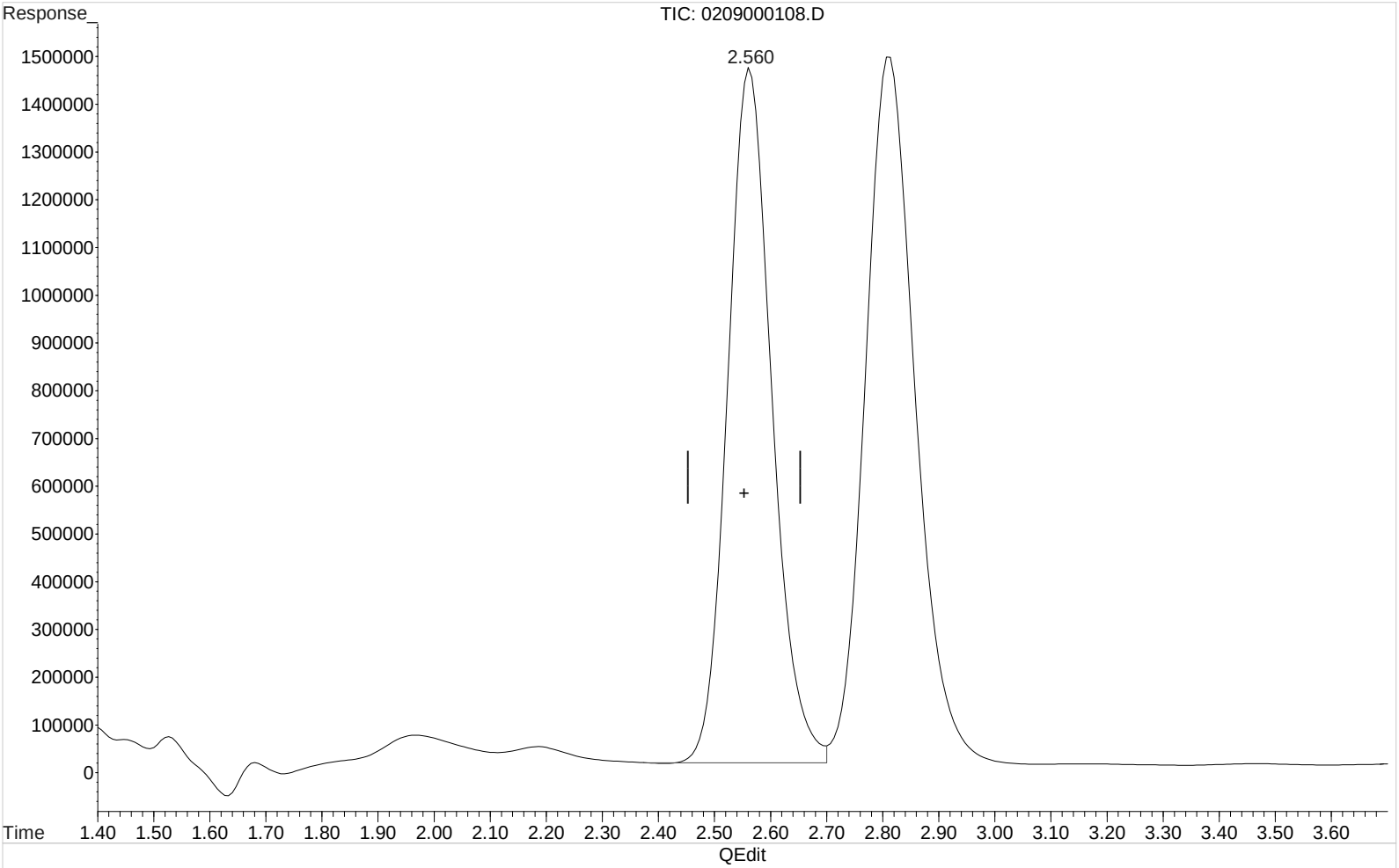
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.560min 511.454 ug/L m

response 7981926

Manual Integration:

After

BLC

02/13/17

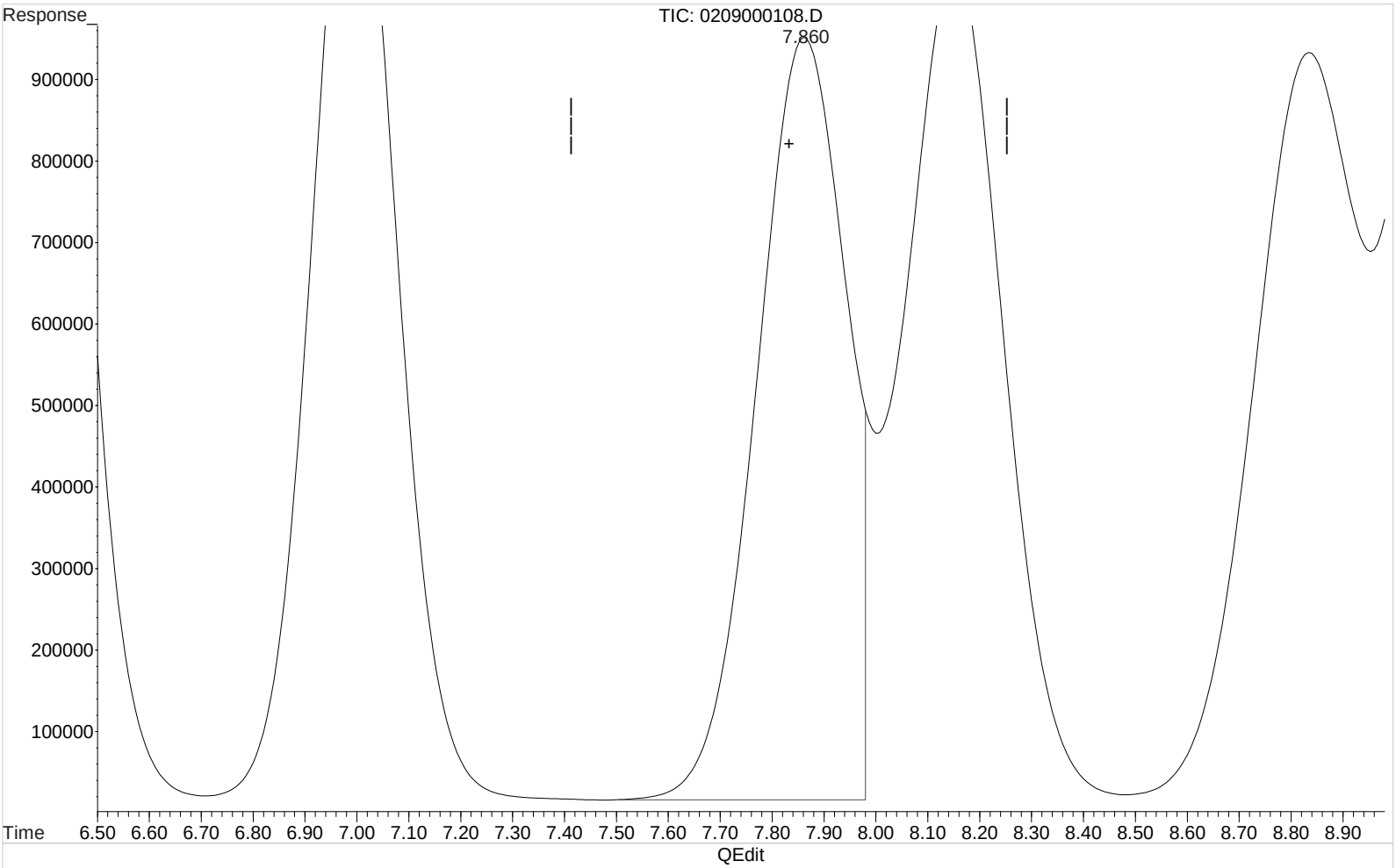
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.860min 494.354 ug/L

response 11200008

Manual Integration:

Before

02/13/17

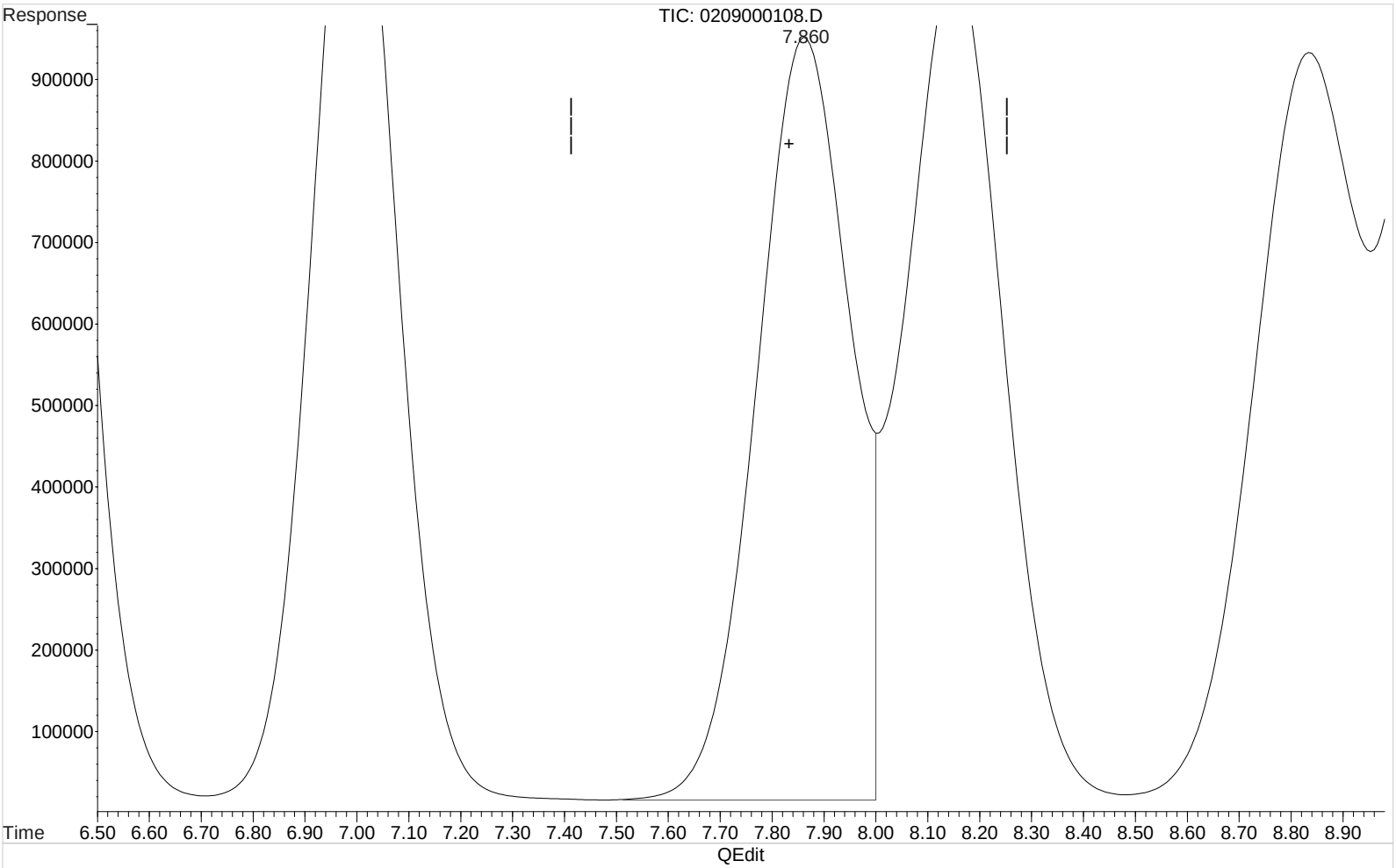
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.860min 519.059 ug/L m

response 11759716

Manual Integration:

After

BLC

02/13/17

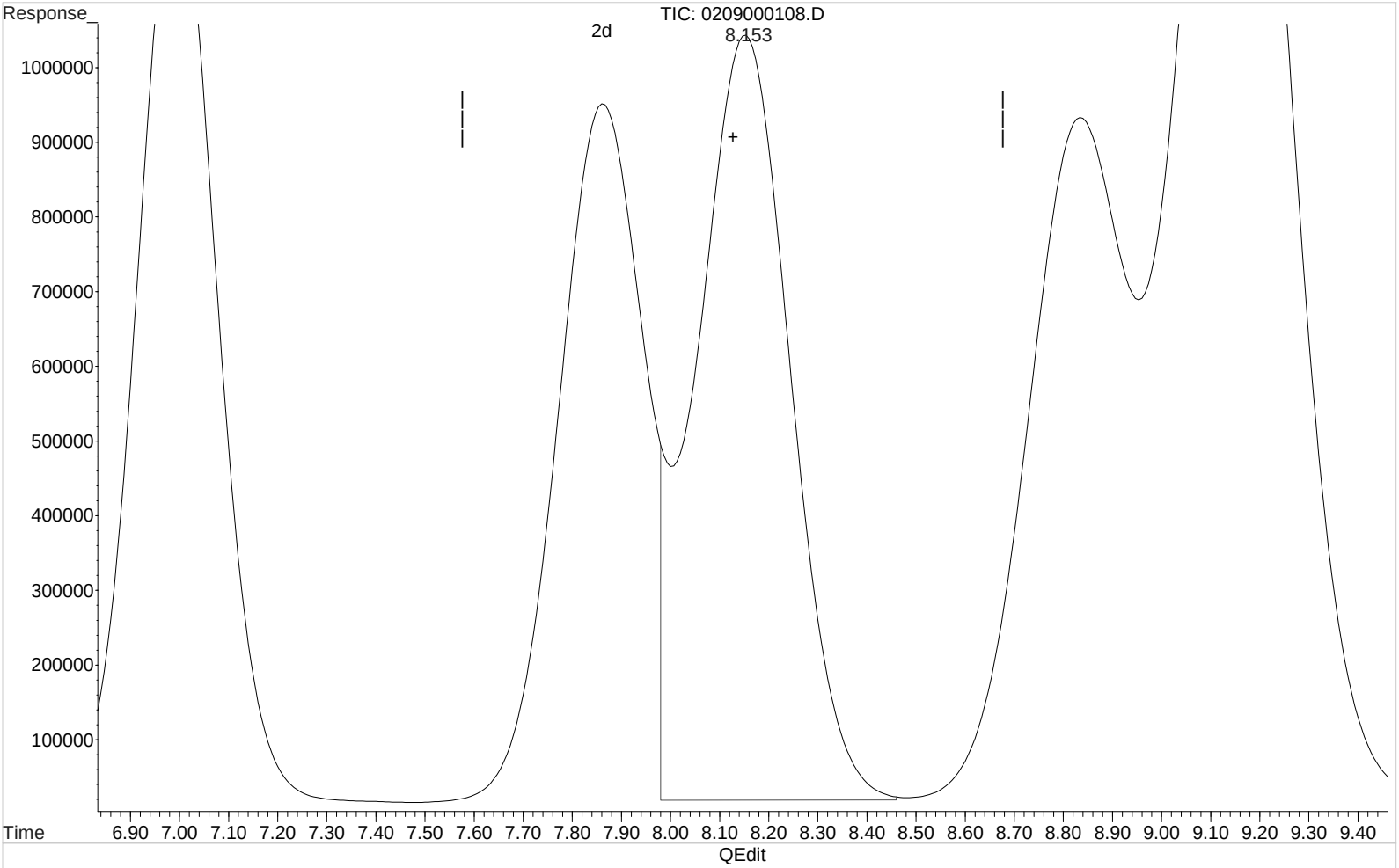
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(11) 1-Chloro-3-Nitrobenzene (S)

8.153min 524.076 ug/L

response 13790355

Manual Integration:

Before

02/13/17

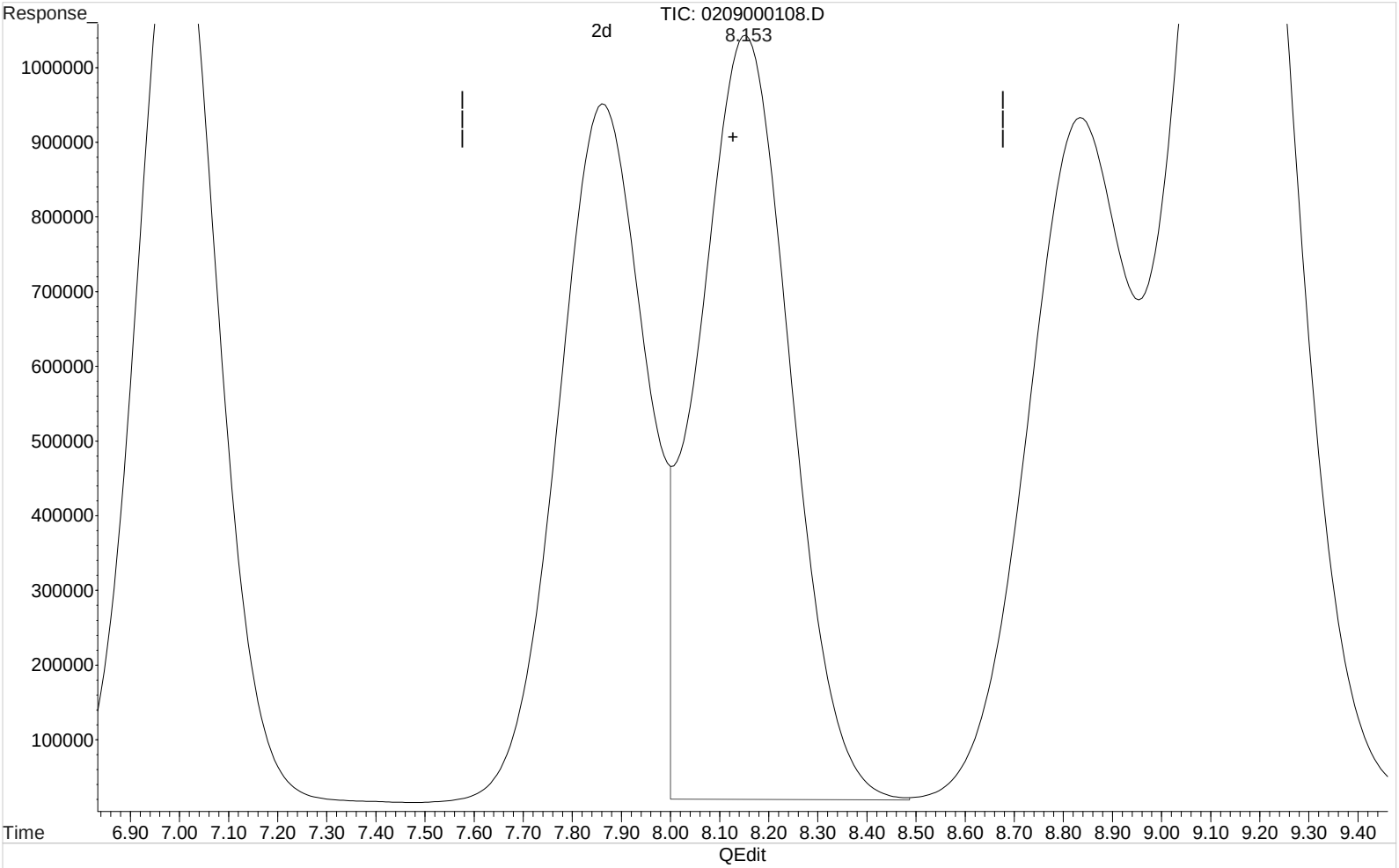
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(11) 1-Chloro-3-Nitrobenzene (S)

8.153min 502.803 ug/L m

response 13230585

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b) (6)

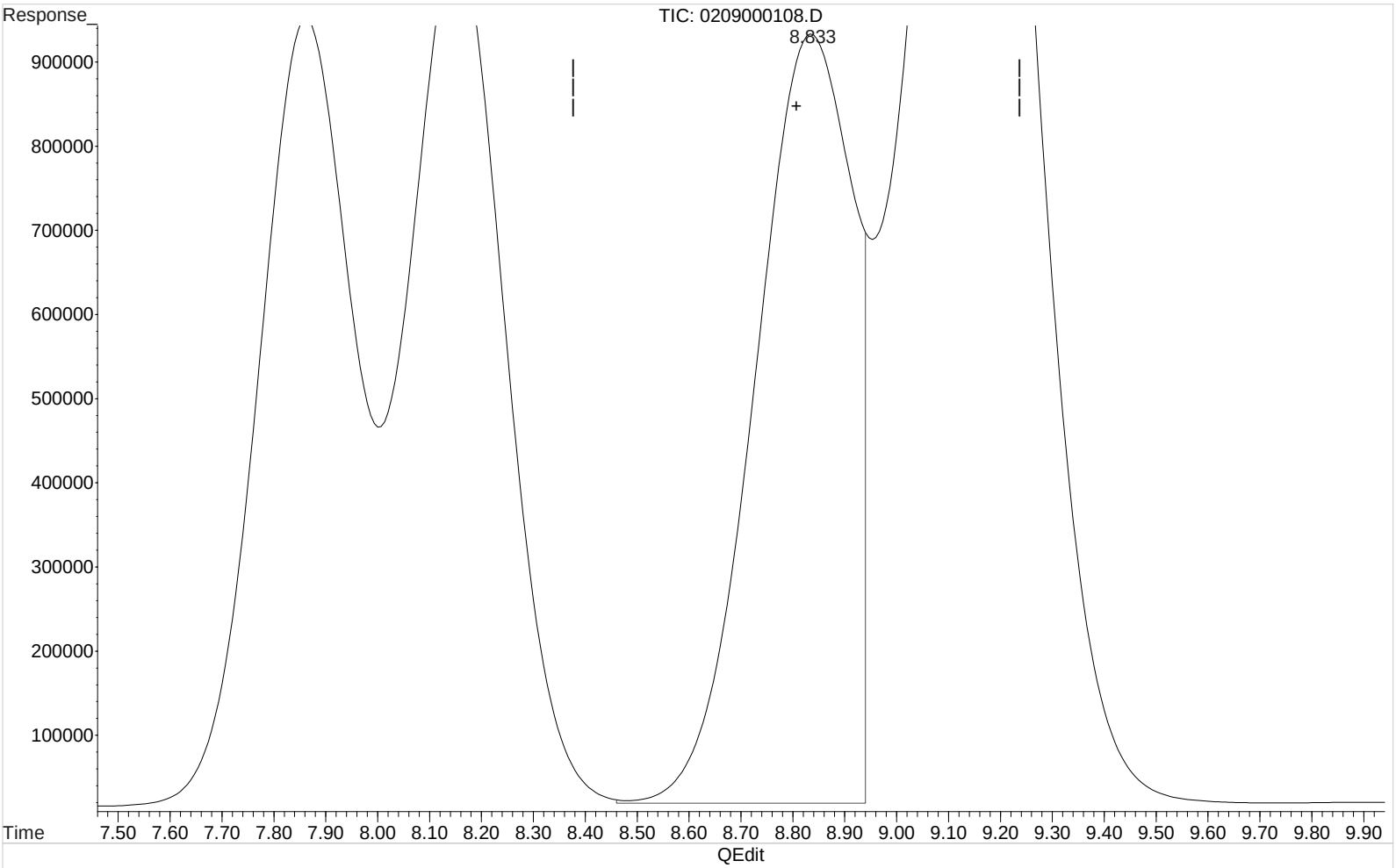
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(12) 2,6-DNT (T)

8.833min 492.505 ug/L

response 12018989

Manual Integration:

Before

02/13/17

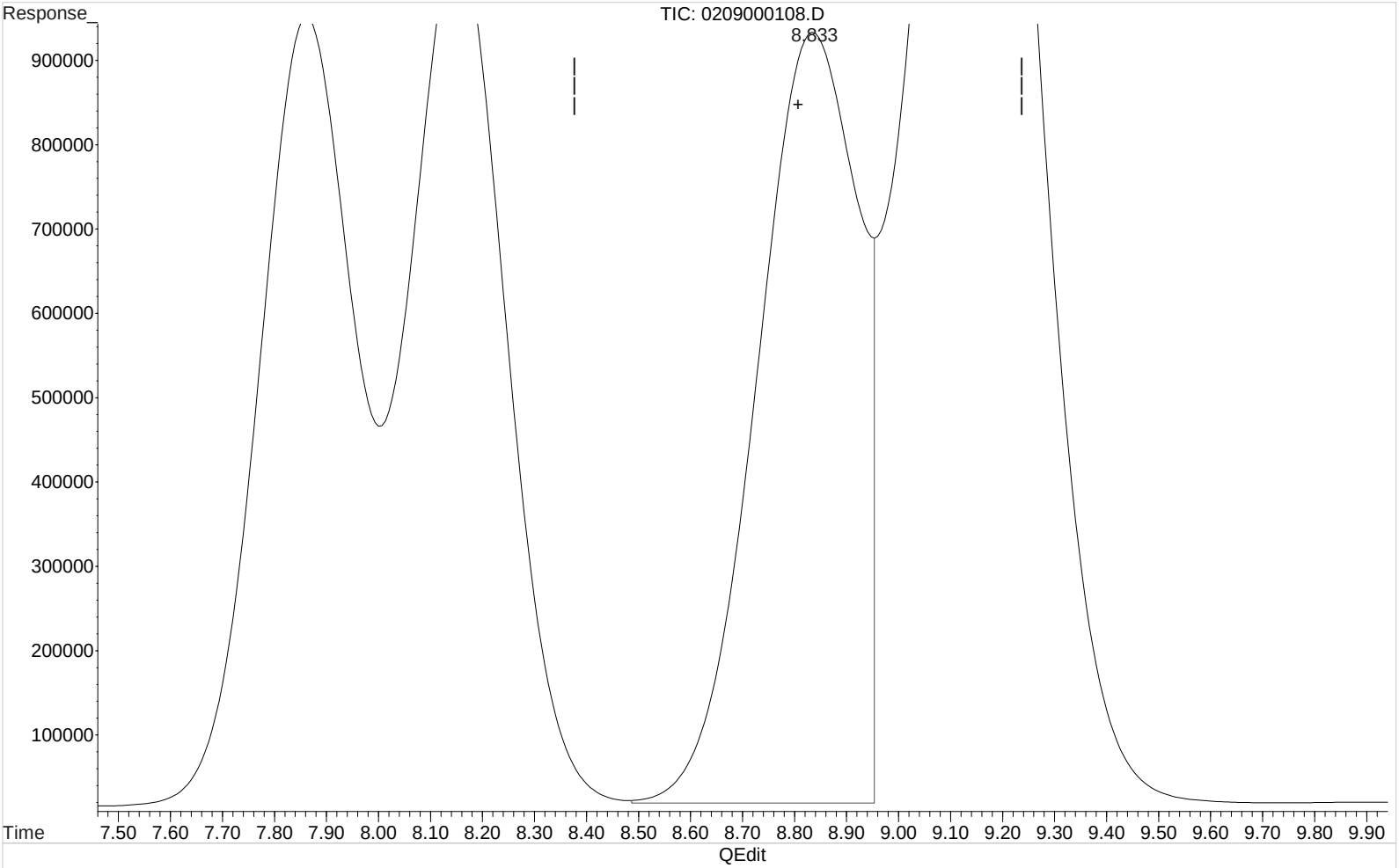
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(12) 2,6-DNT (T)

8.833min 514.394 ug/L m

response 12553164

Manual Integration:

After

BLC

02/13/17

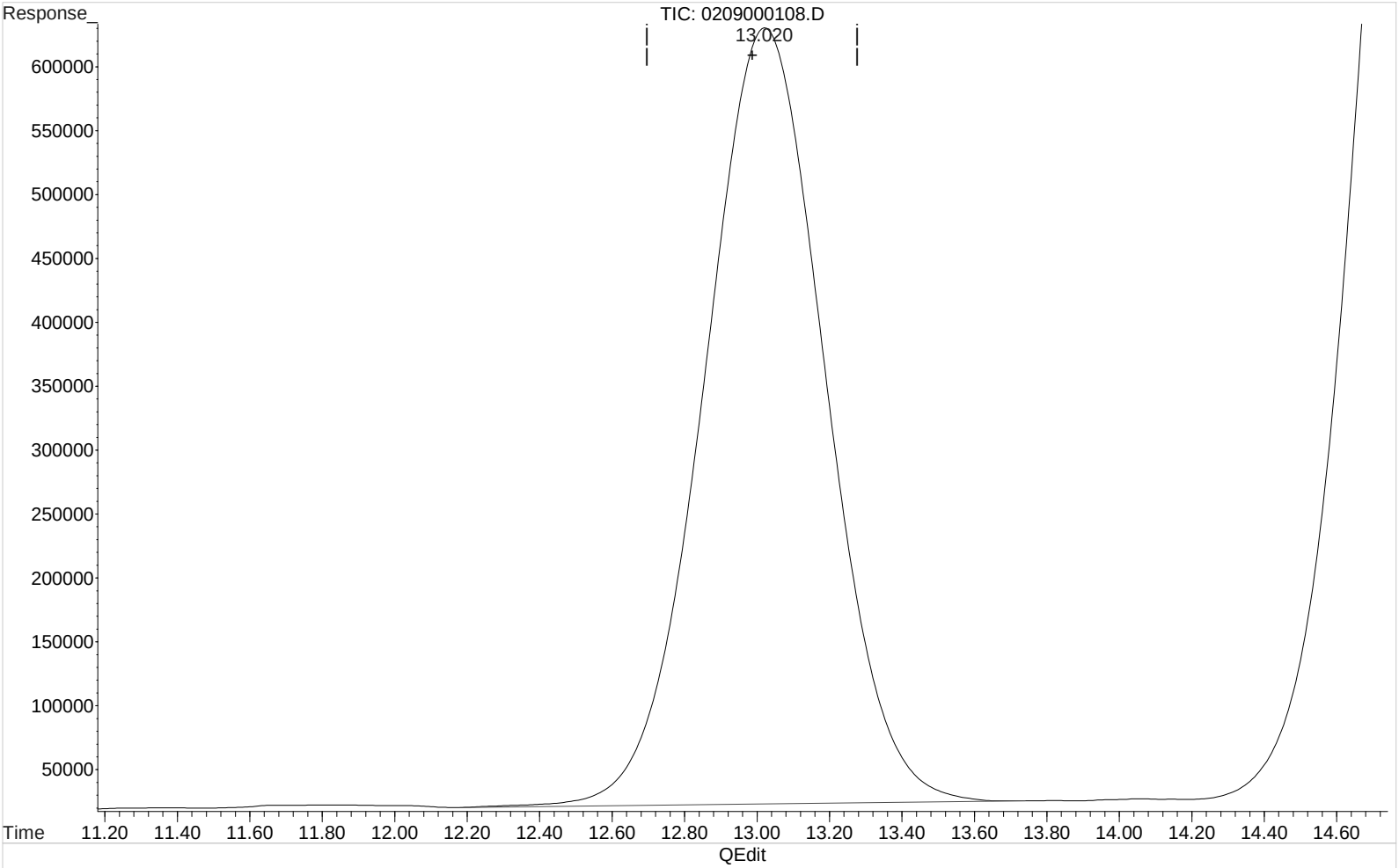
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:59:29 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(14) Tetryl (T)

13.020min 484.451 ug/L

response 14154790

Manual Integration:

Before

02/13/17

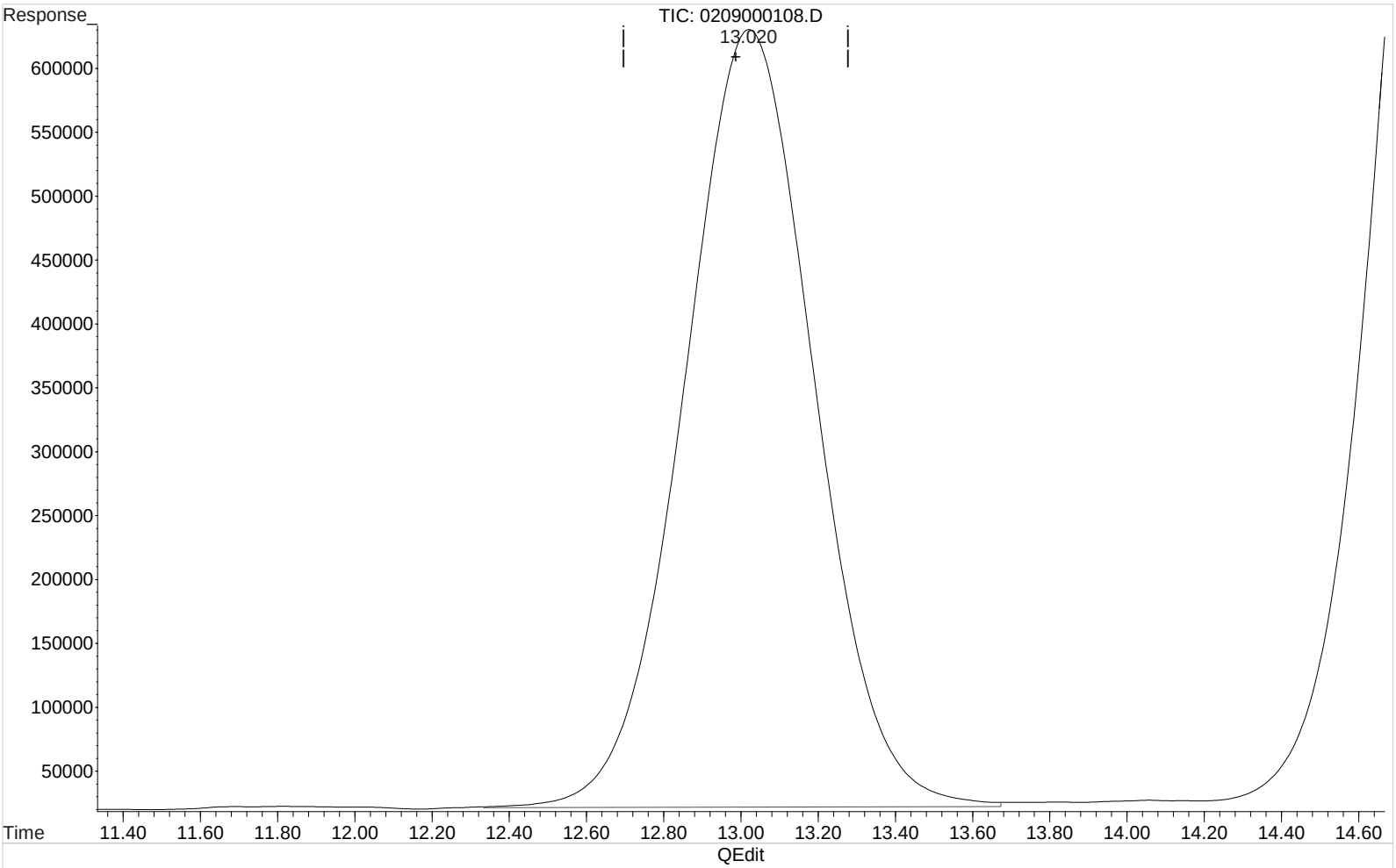
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:00:13 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(14) Tetryl (T)

13.020min 487.896 ug/L m

response 14255446

Manual Integration:

After

BLC

02/13/17

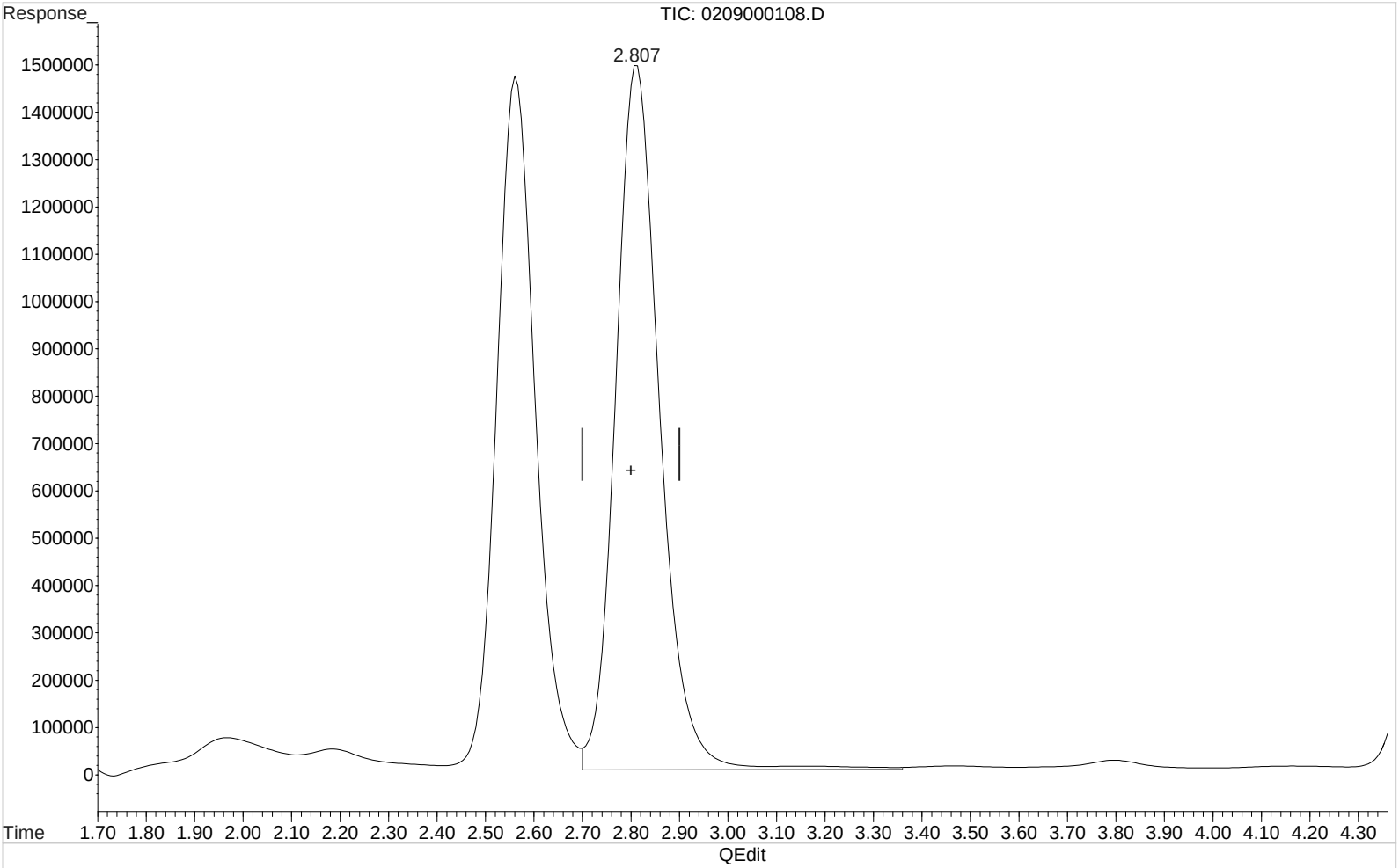
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.807min 528.530 ug/L

response 9406681

Manual Integration:

Before

02/13/17

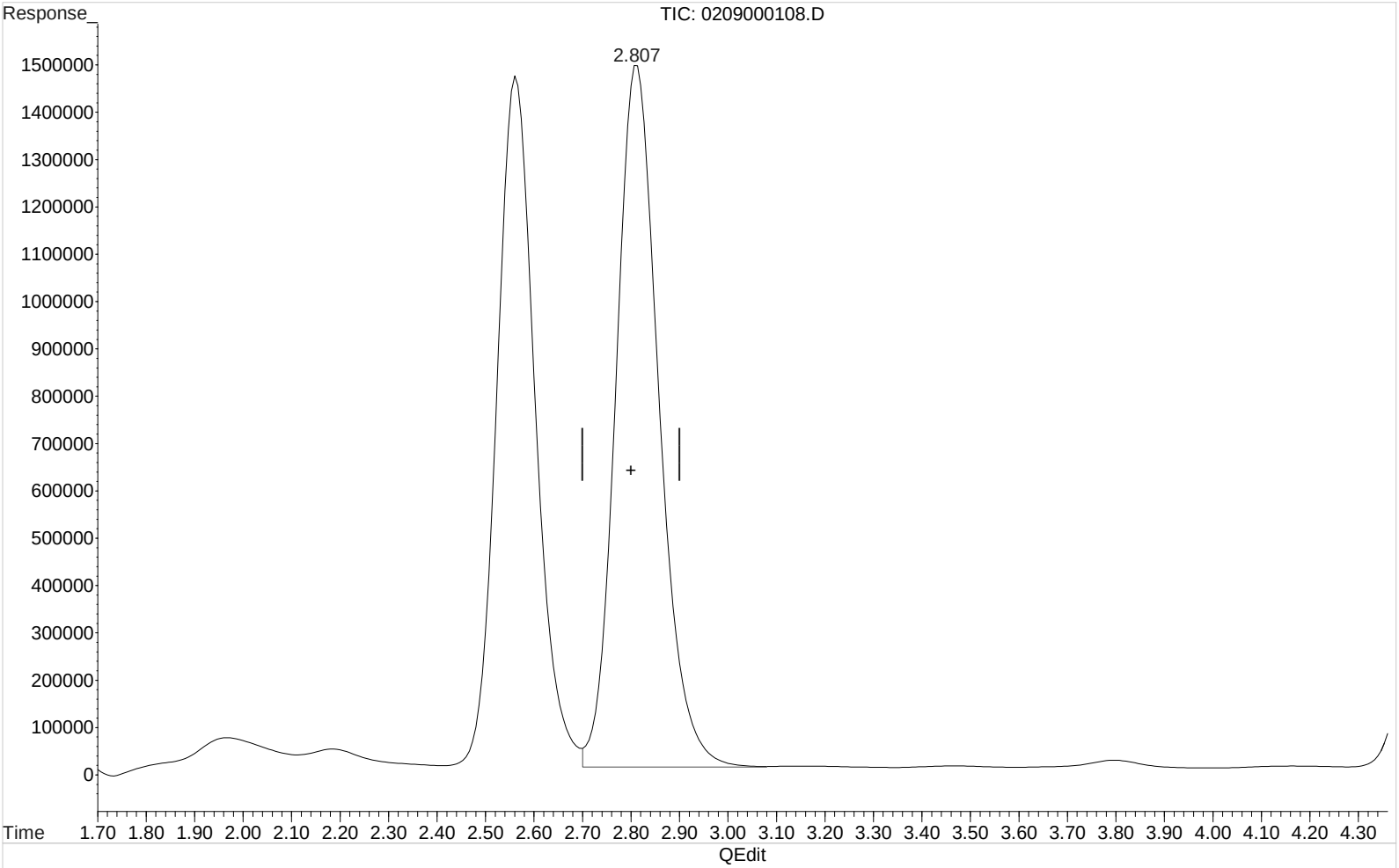
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.807min 515.685 ug/L m

response 9178077

Manual Integration:

After

BLC

02/13/17

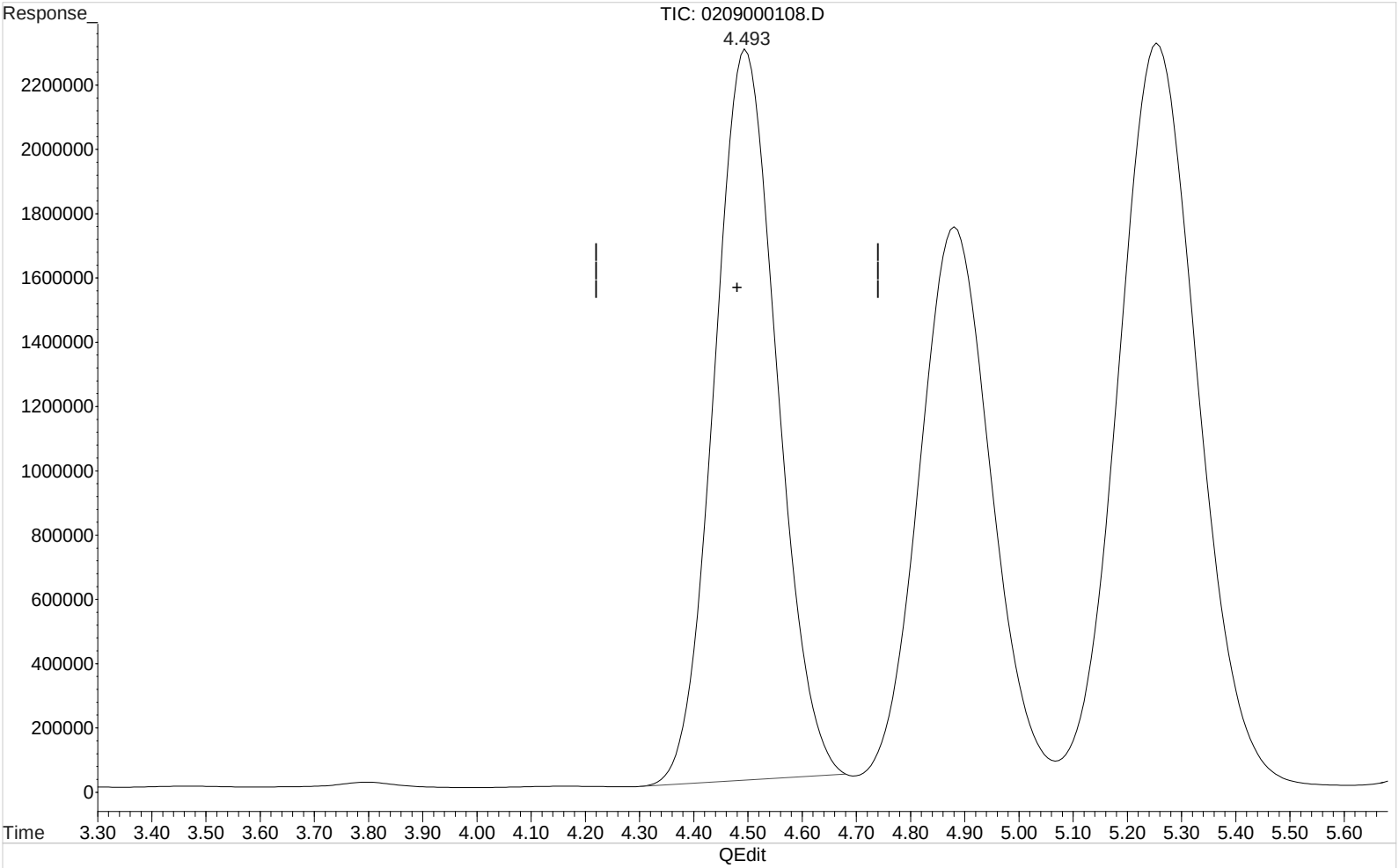
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(3) Nitrobenzene (T)

4.493min 497.348 ug/L

response 18344510

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

(b) (6)

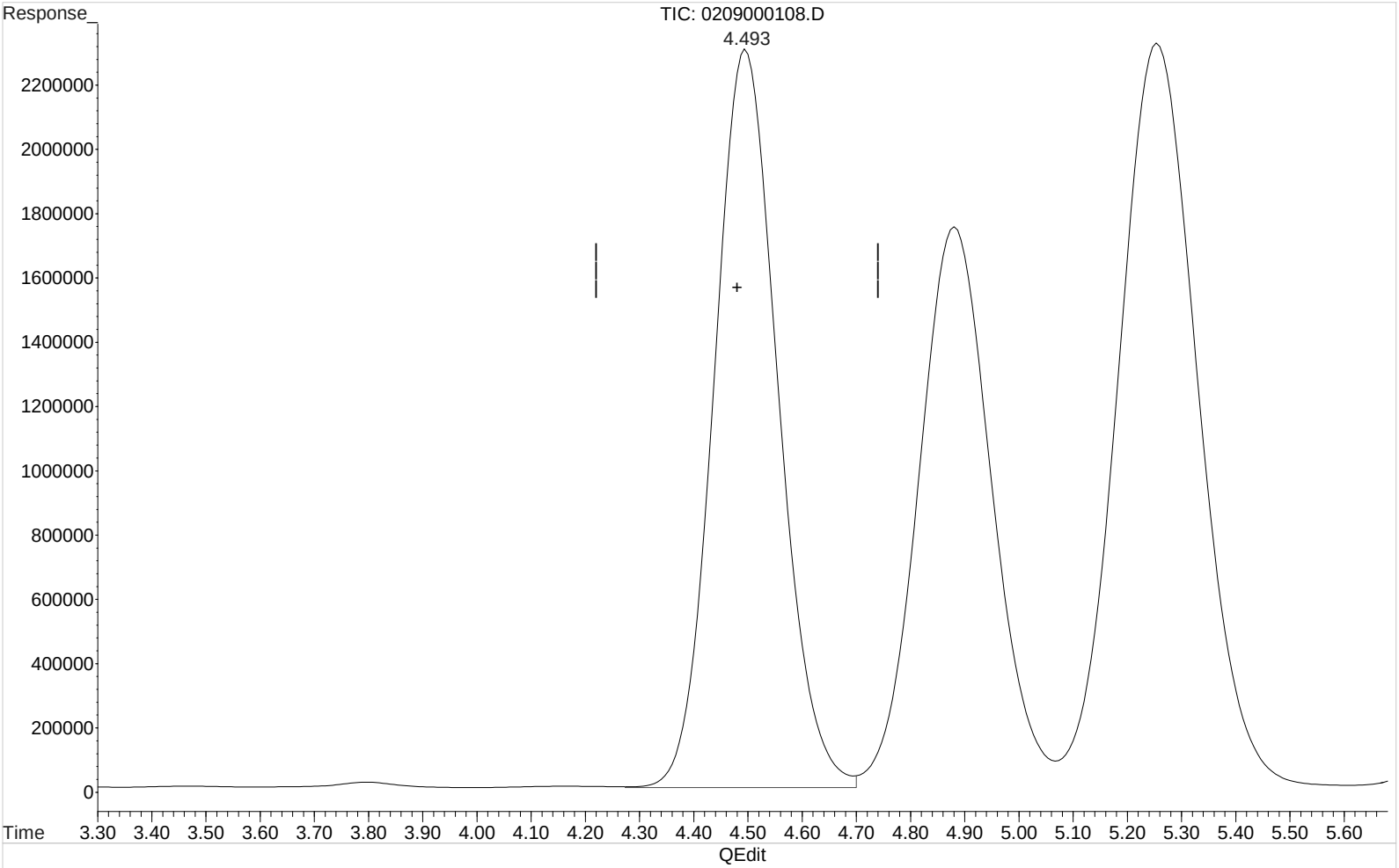
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.493min 512.854 ug/L m

response 18916422

Manual Integration:

After

BLC

02/13/17

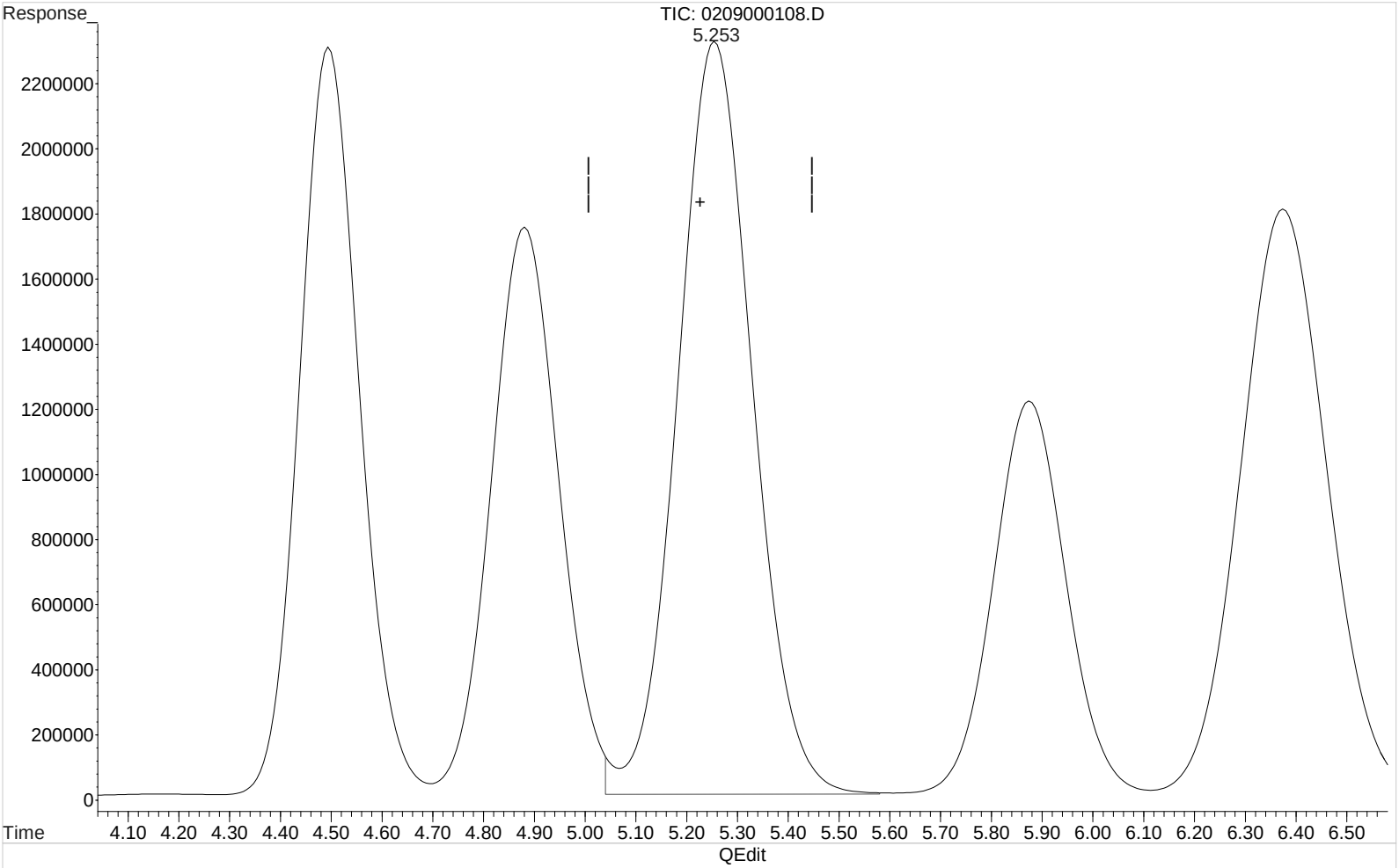
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(4) 3,5-Dinitroaniline (T)

5.253min 515.473 ug/L

response 23738537

Manual Integration:

Before

02/13/17

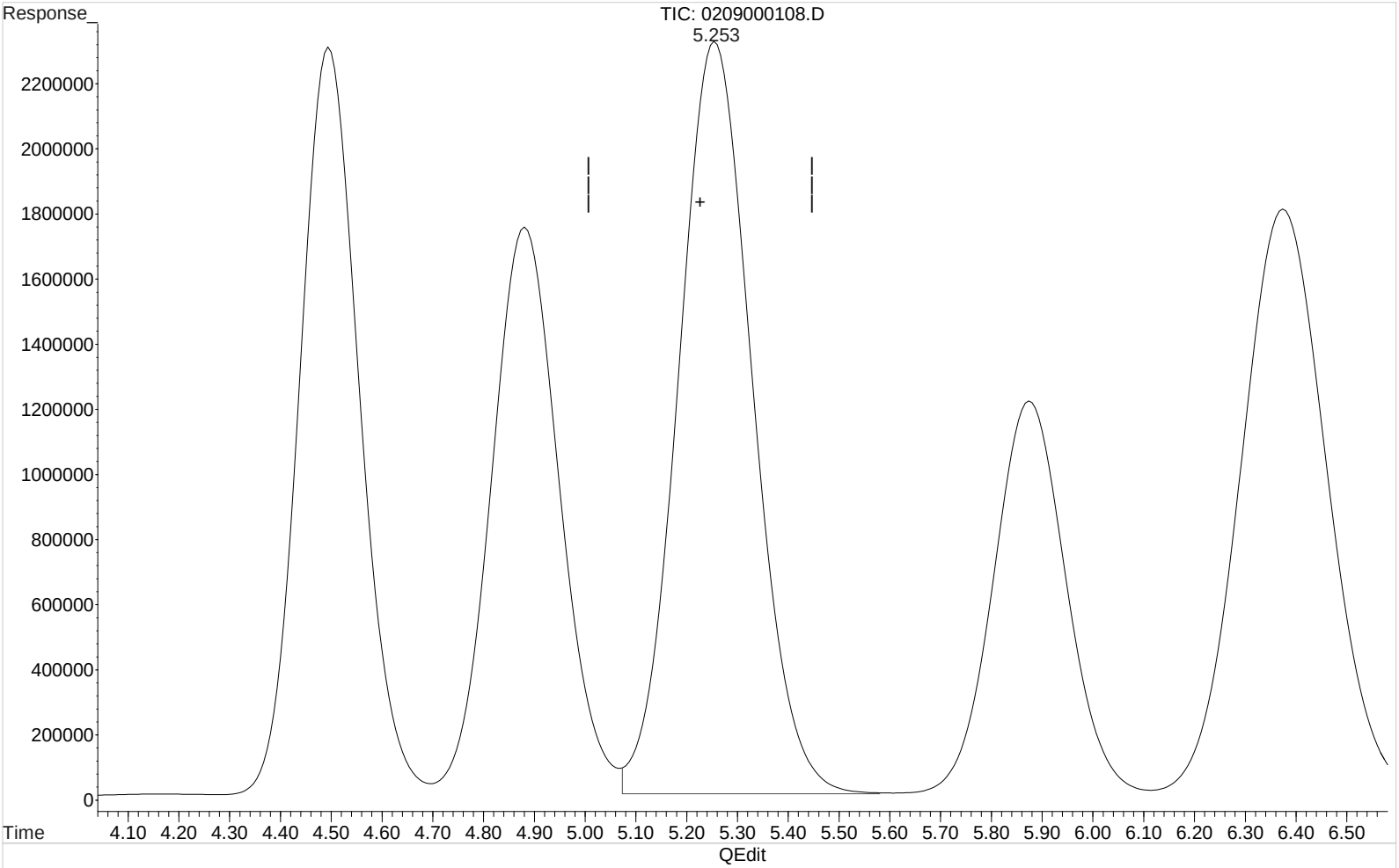
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(4) 3,5-Dinitroaniline (T)

5.253min 511.057 ug/L m

response 23535159

Manual Integration:

After

BLC

02/13/17

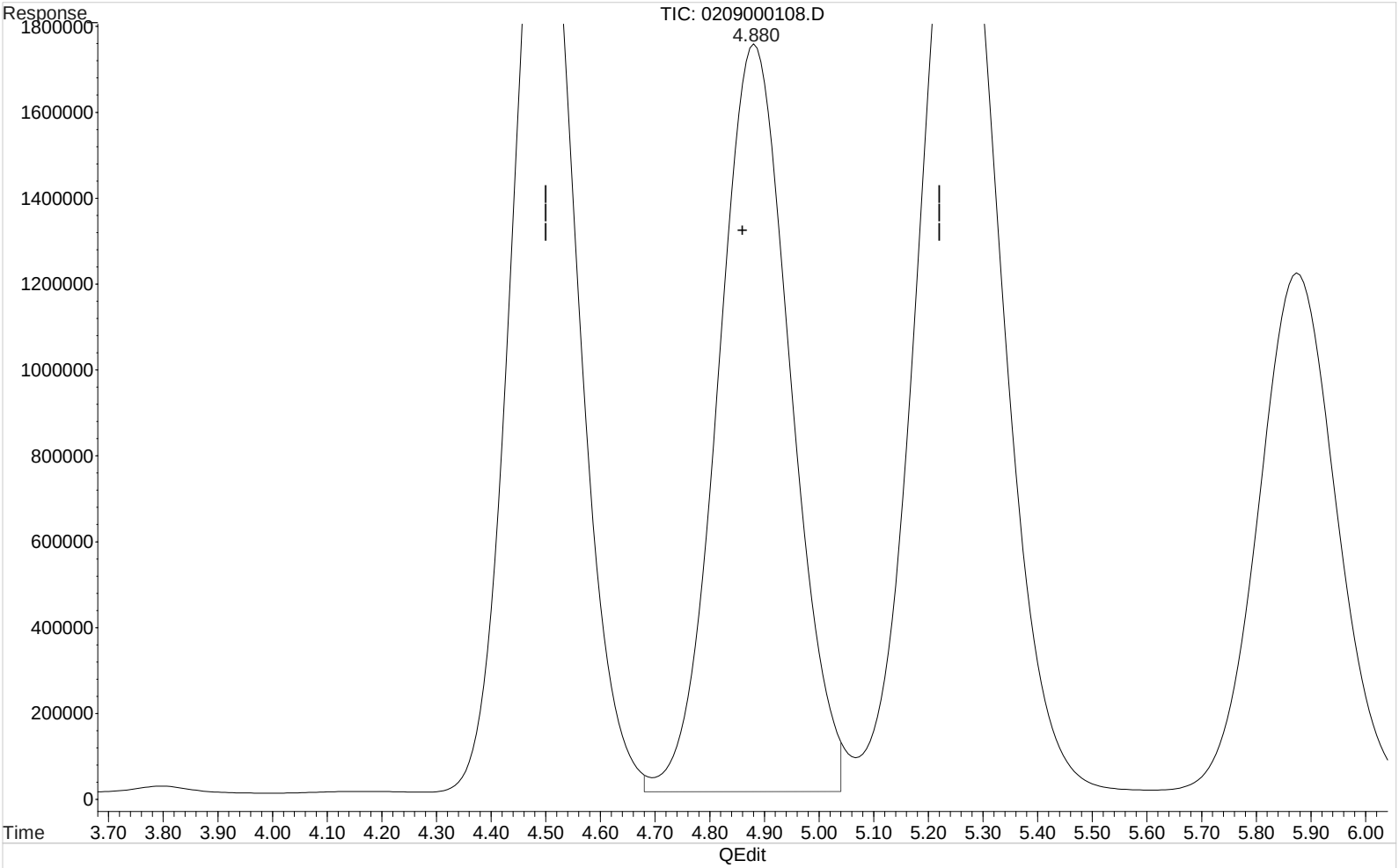
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(5) 4-Amino-2,6-DNT (T)

4.880min 512.609 ug/L

response 16100487

Manual Integration:

Before

02/13/17

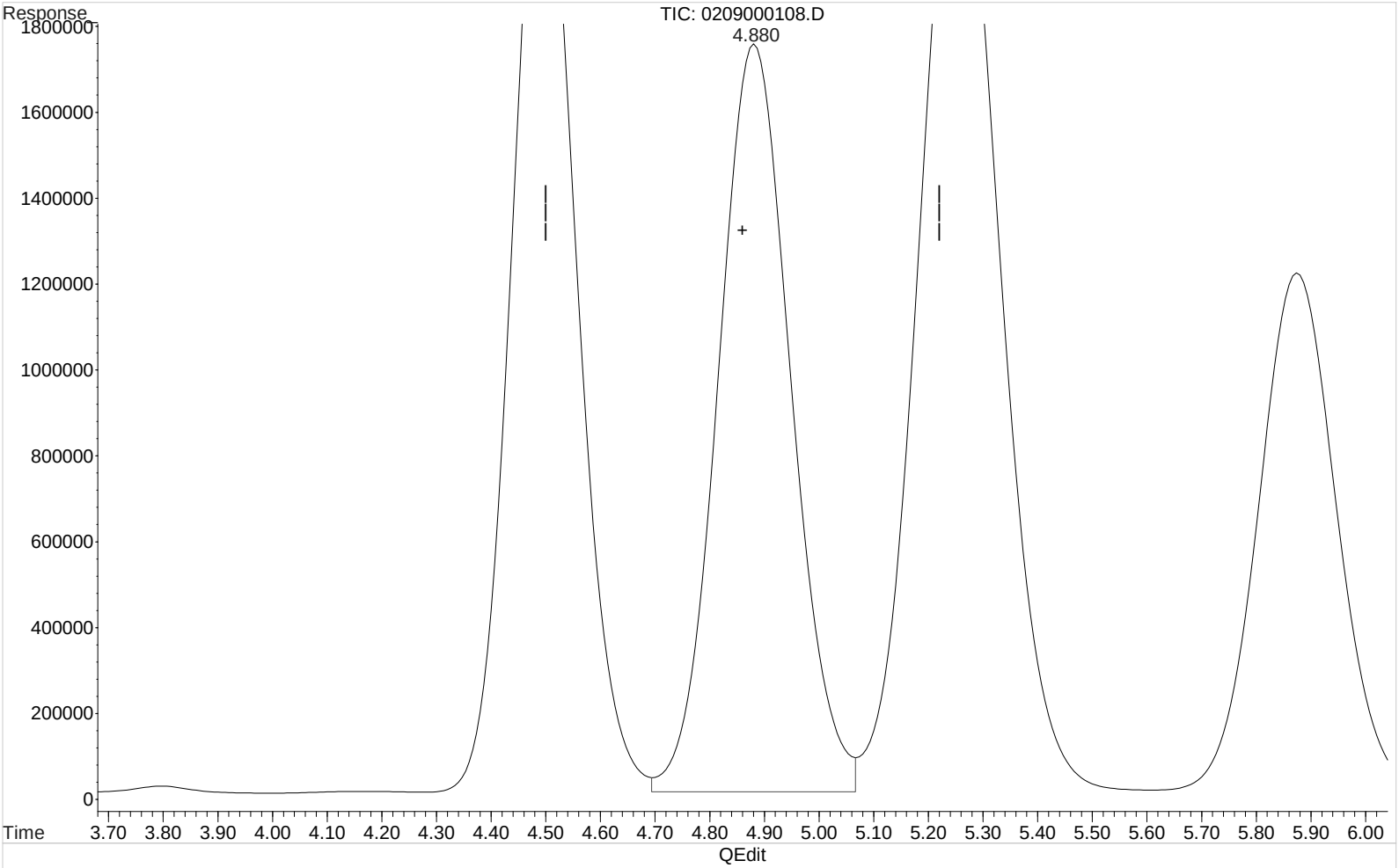
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(5) 4-Amino-2,6-DNT (T)

4.880min 516.408 ug/L m

response 16219825

Manual Integration:

After

BLC

02/13/17

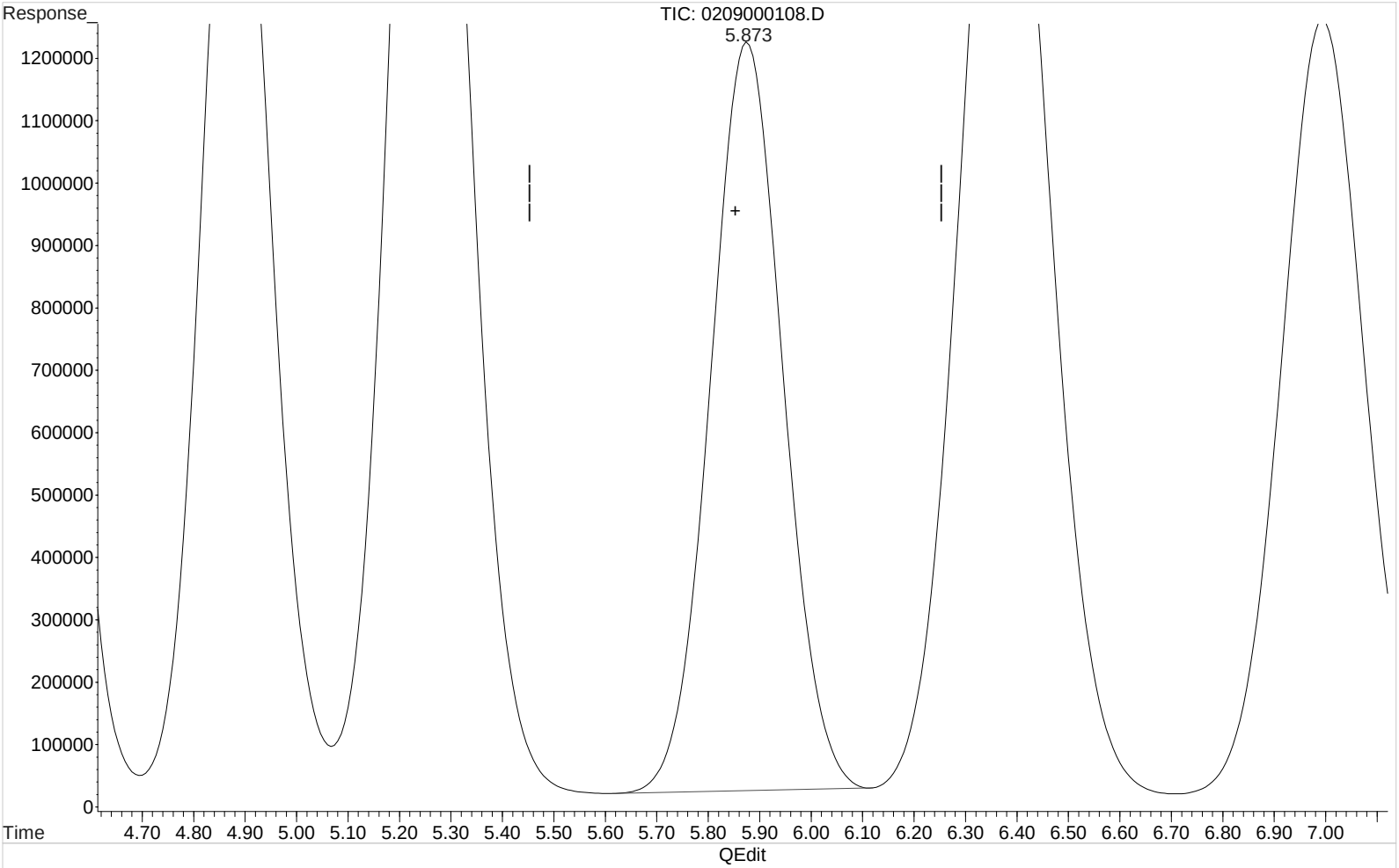
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.873min 500.725 ug/L

response 11777330

Manual Integration:

Before

02/13/17

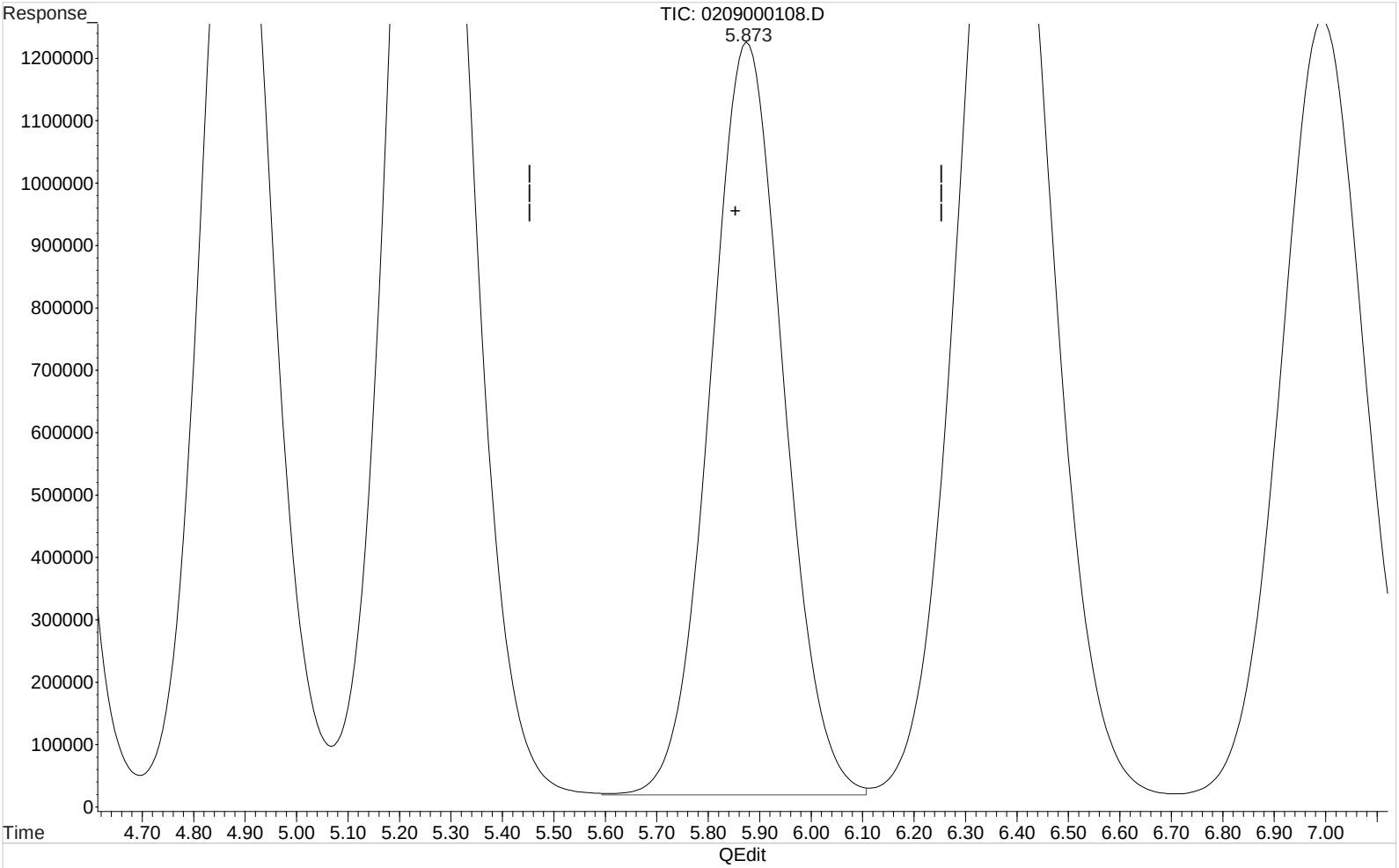
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.873min 509.102 ug/L m

response 11974356

Manual Integration:

After

BLC

02/13/17

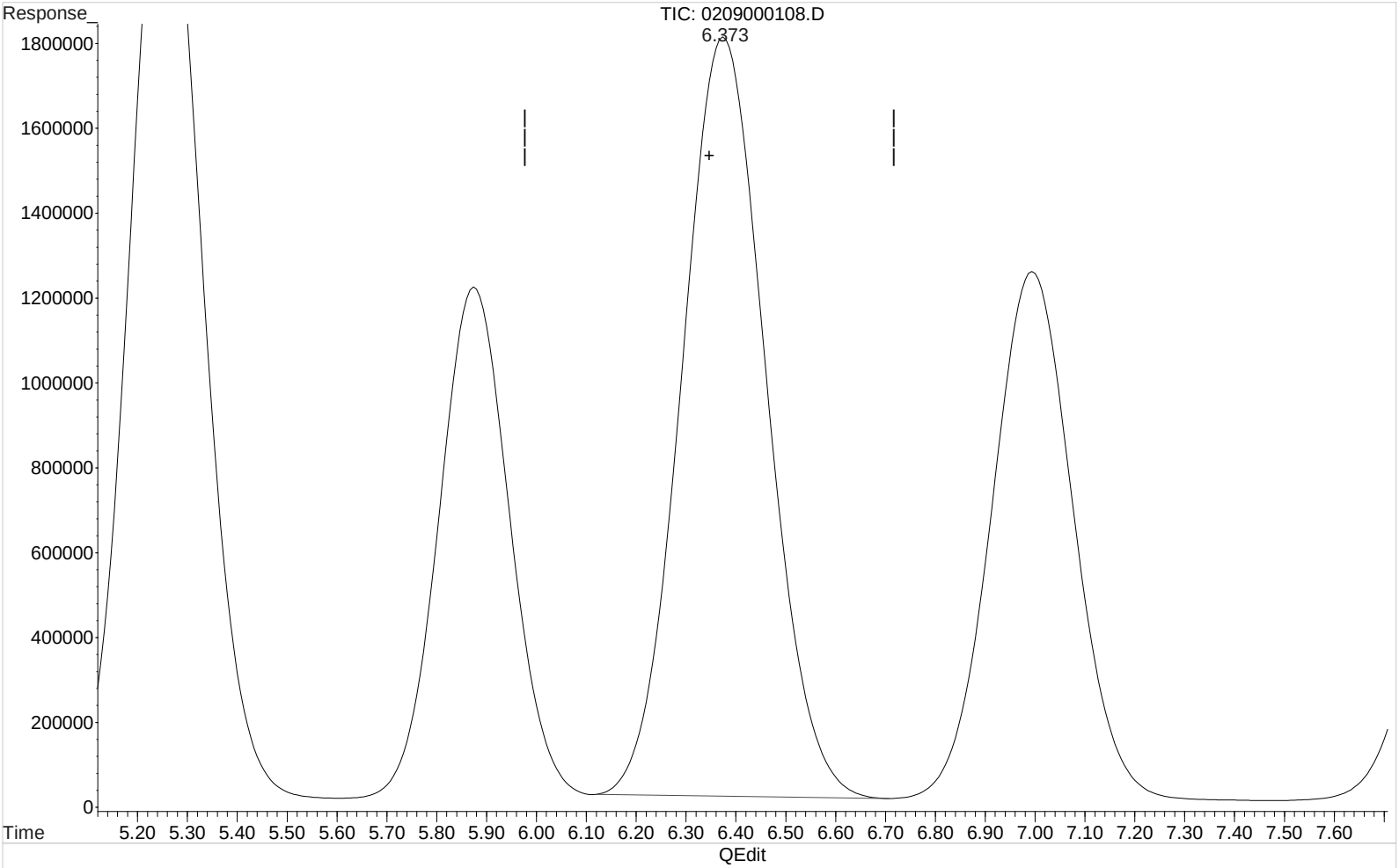
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.373min 508.092 ug/L

response 21097350

Manual Integration:

Before

02/13/17

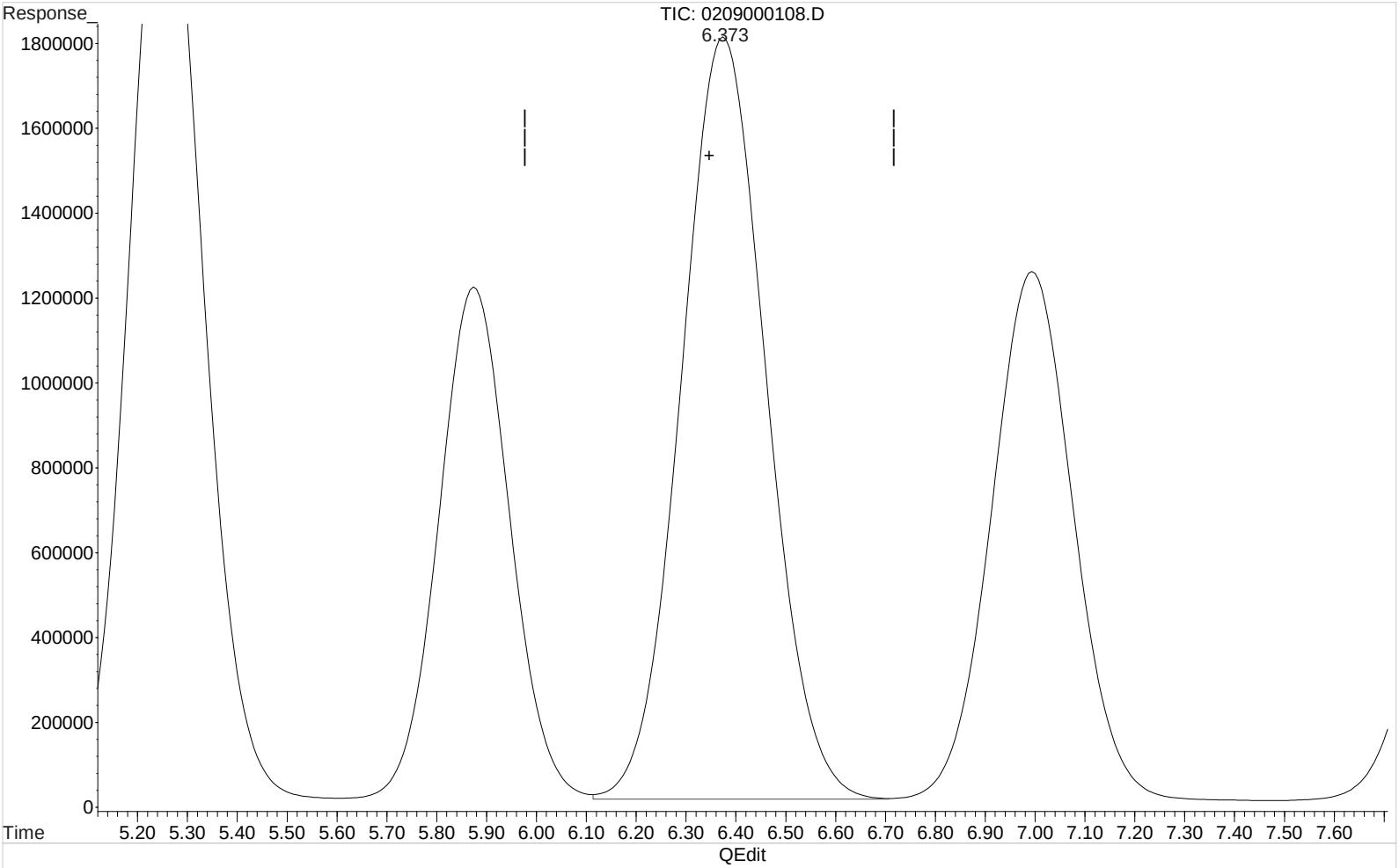
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.373min 513.240 ug/L m

response 21311094

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:53:53 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
11)	S	1-Chloro-3-Nitrobenzene	8.140	26673138	1017.135	ug/L	
		Target Compounds					
1)	T	HMX	2.560	15754141	1011.865	ug/L	m
2)	T	RDX	2.807	18282213	1034.253	ug/L	
3)	T	Nitrobenzene	4.487	37153839	1009.140	ug/L	m
4)	T	3,5-Dinitroaniline	5.247	46792847	1020.192	ug/L	
5)	T	4-Amino-2,6-DNT	4.873	32003465	1023.774	ug/L	
6)	T	2-NT	5.867	23562112	1002.211	ug/L	m
7)	T	2-Amino-4,6-DNT	6.360	42381135	1025.978	ug/L	m
8)	T	3-NT	6.987	27875884	1007.514	ug/L	
9)	T	1,3-DNB	9.133	55586286	1014.562	ug/L	
10)	T	4-NT	7.847	22827299	1009.477	ug/L	
12)	T	2,6-DNT	8.820	24988433	1030.126	ug/L	
13)	T	2,4-DNT	14.813	51254762	1019.136	ug/L	
14)	T	Tetryl	13.000	28722923	978.901	ug/L	
15)	T	1,3,5-TNB	19.813	41471658	1017.646	ug/L	
16)	T	2,4,6-TNT	20.800	39028968	1018.142	ug/L	

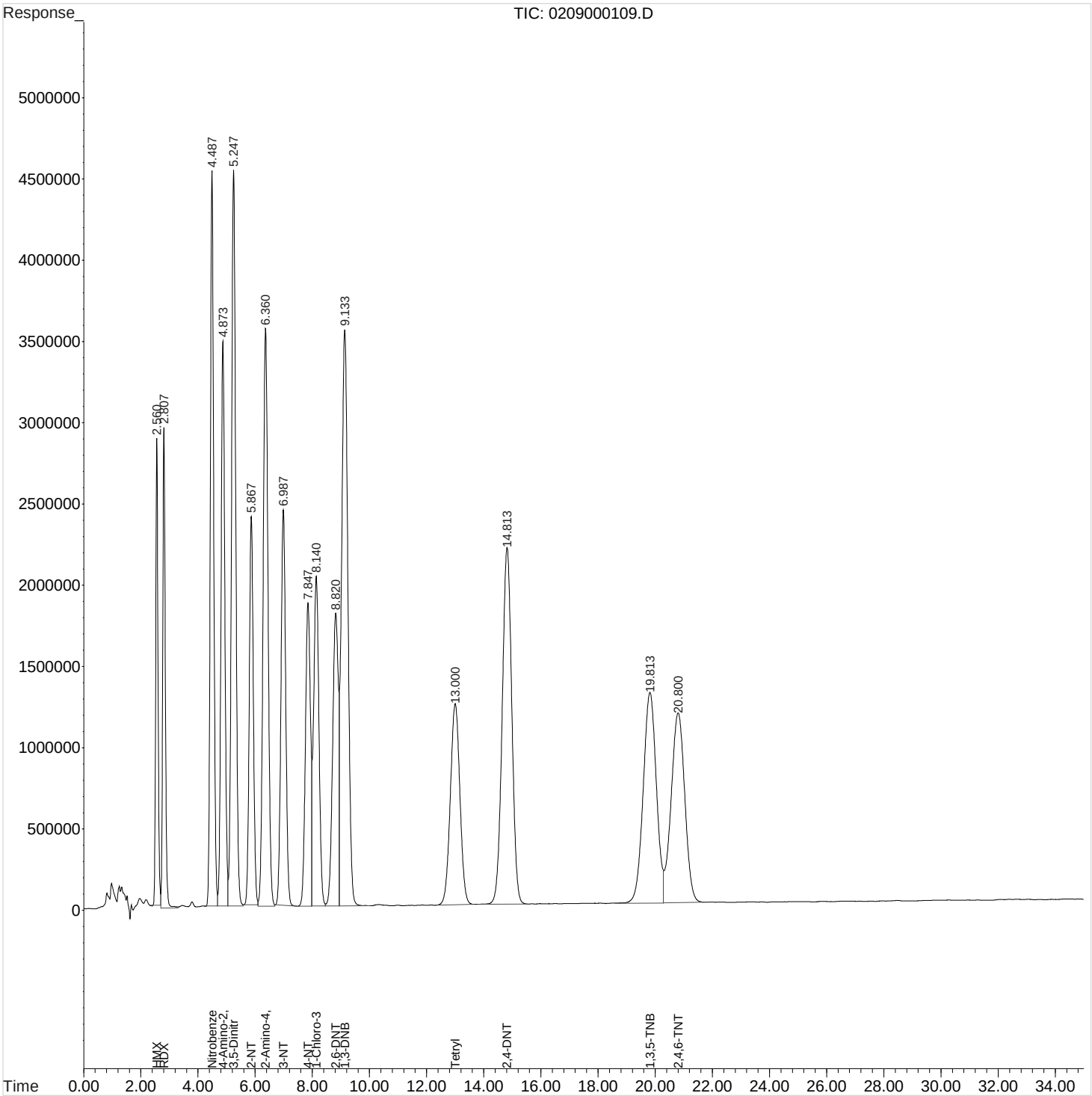
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:53:53 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

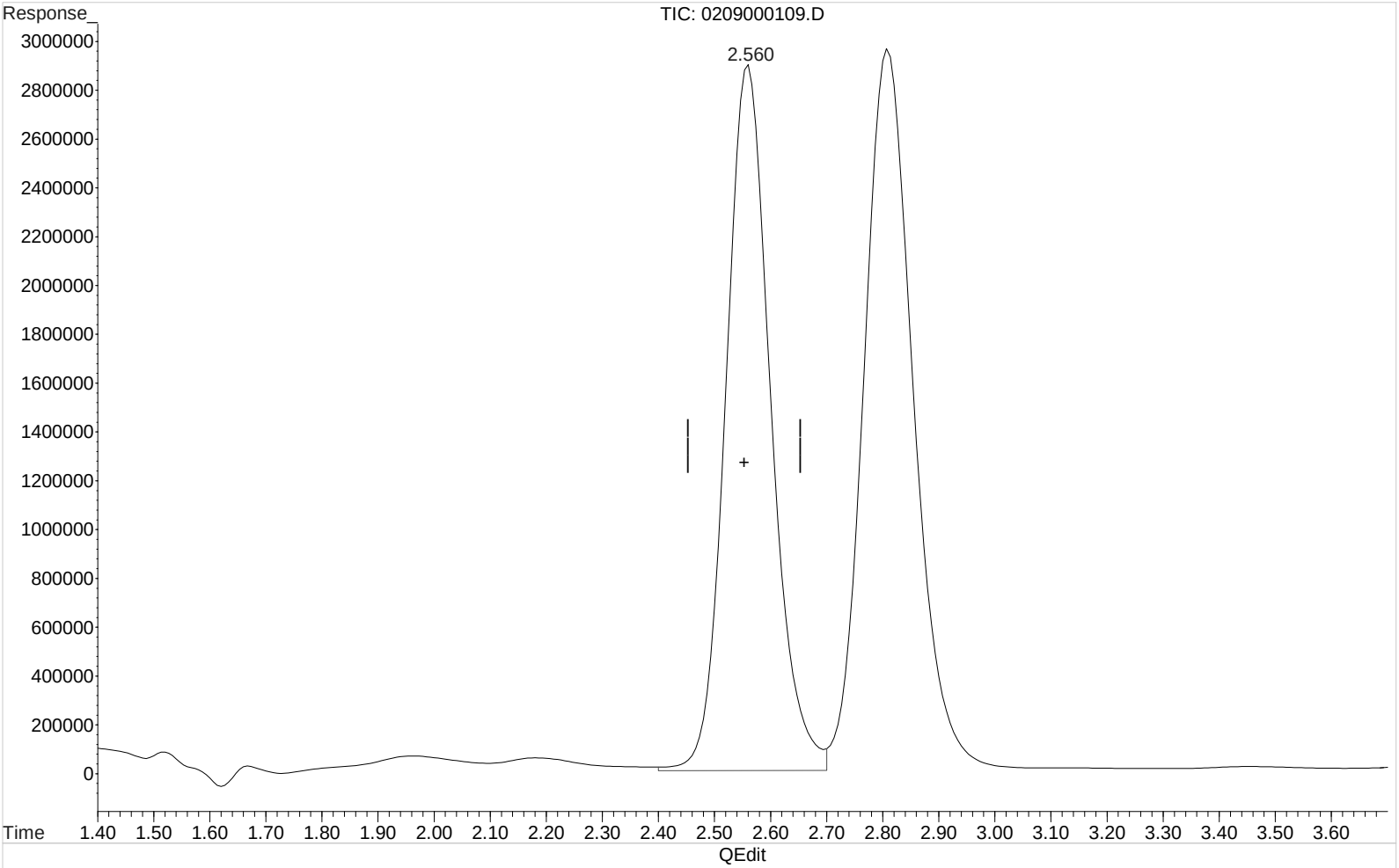


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:45:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.560min 1035.968 ug/L

response 16129417

Manual Integration:

Before

02/13/17

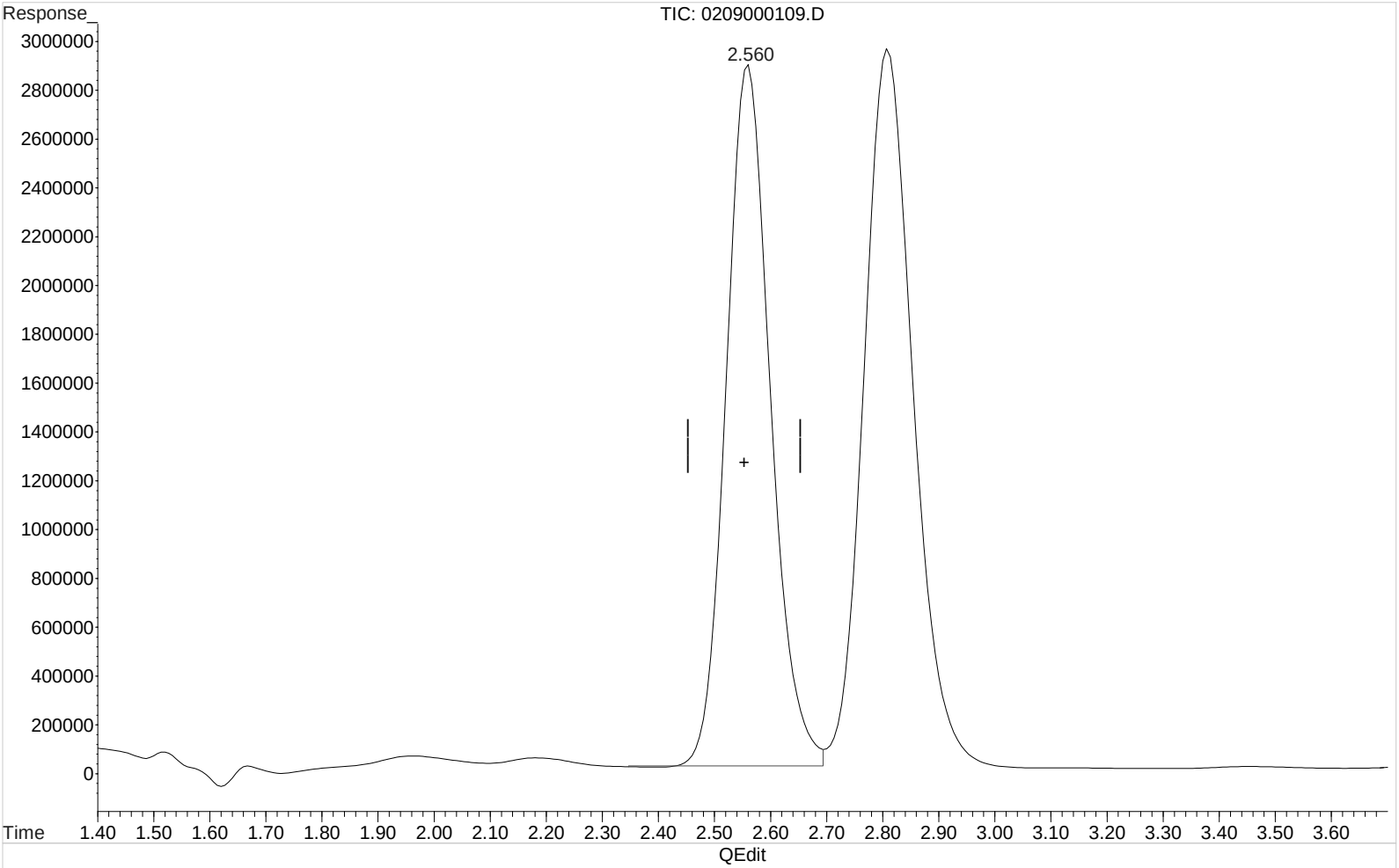
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:45:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.560min 1011.865 ug/L m

response 15754141

Manual Integration:

After

BLC

02/13/17

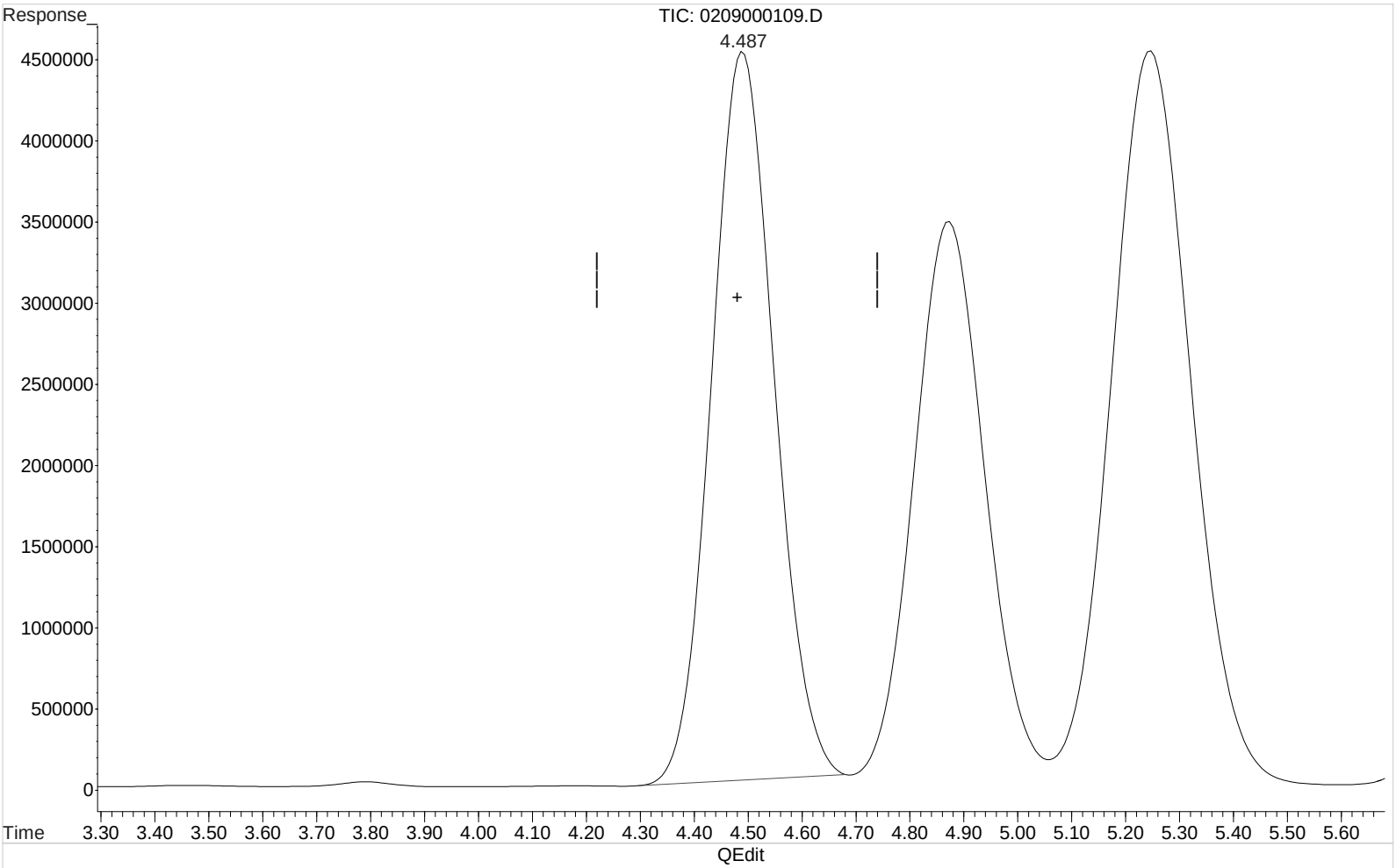
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:45:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 987.330 ug/L

response 36350884

Manual Integration:

Before

02/13/17

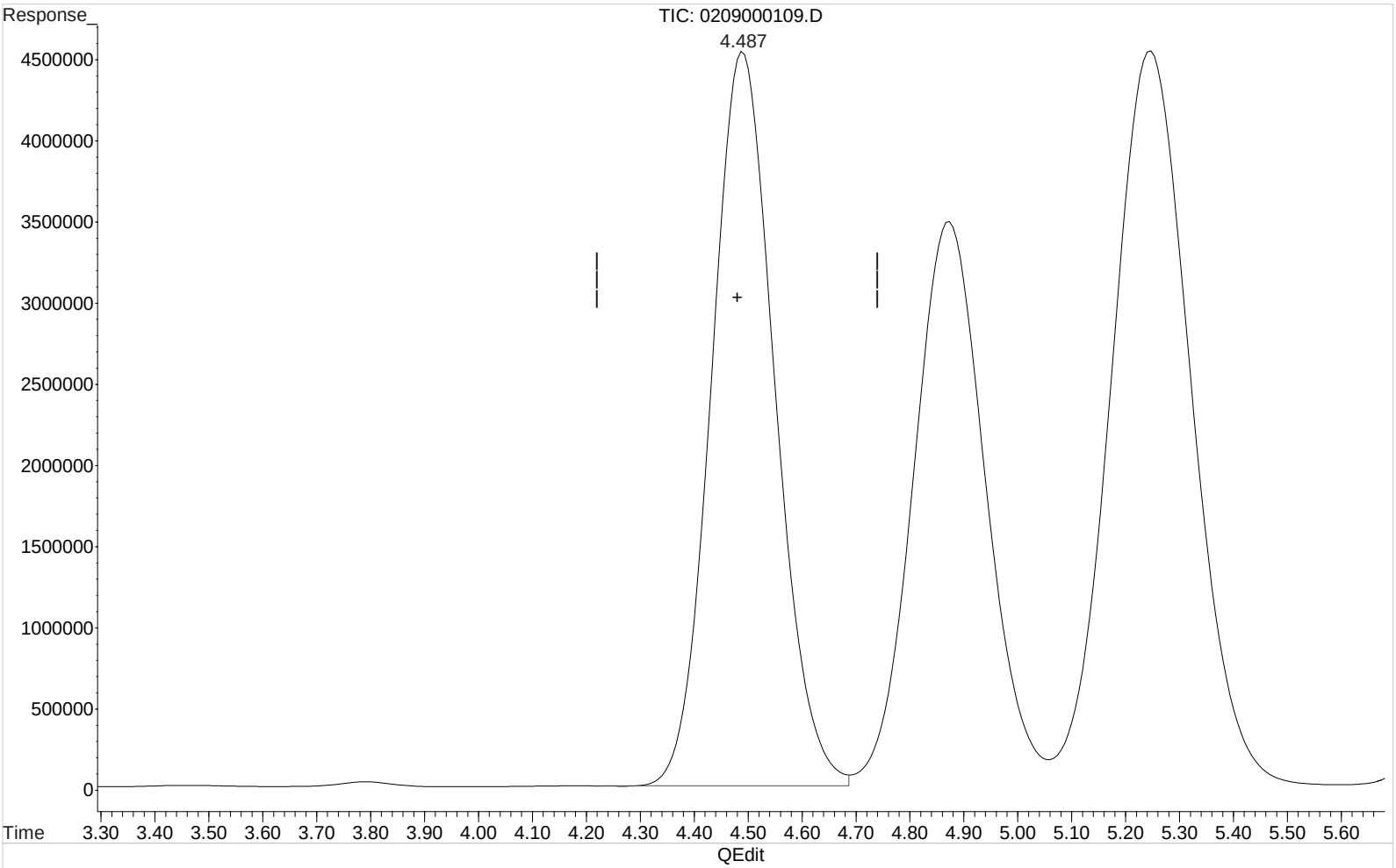
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:45:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 1009.140 ug/L m

response 37153839

Manual Integration:

After

BLC

02/13/17

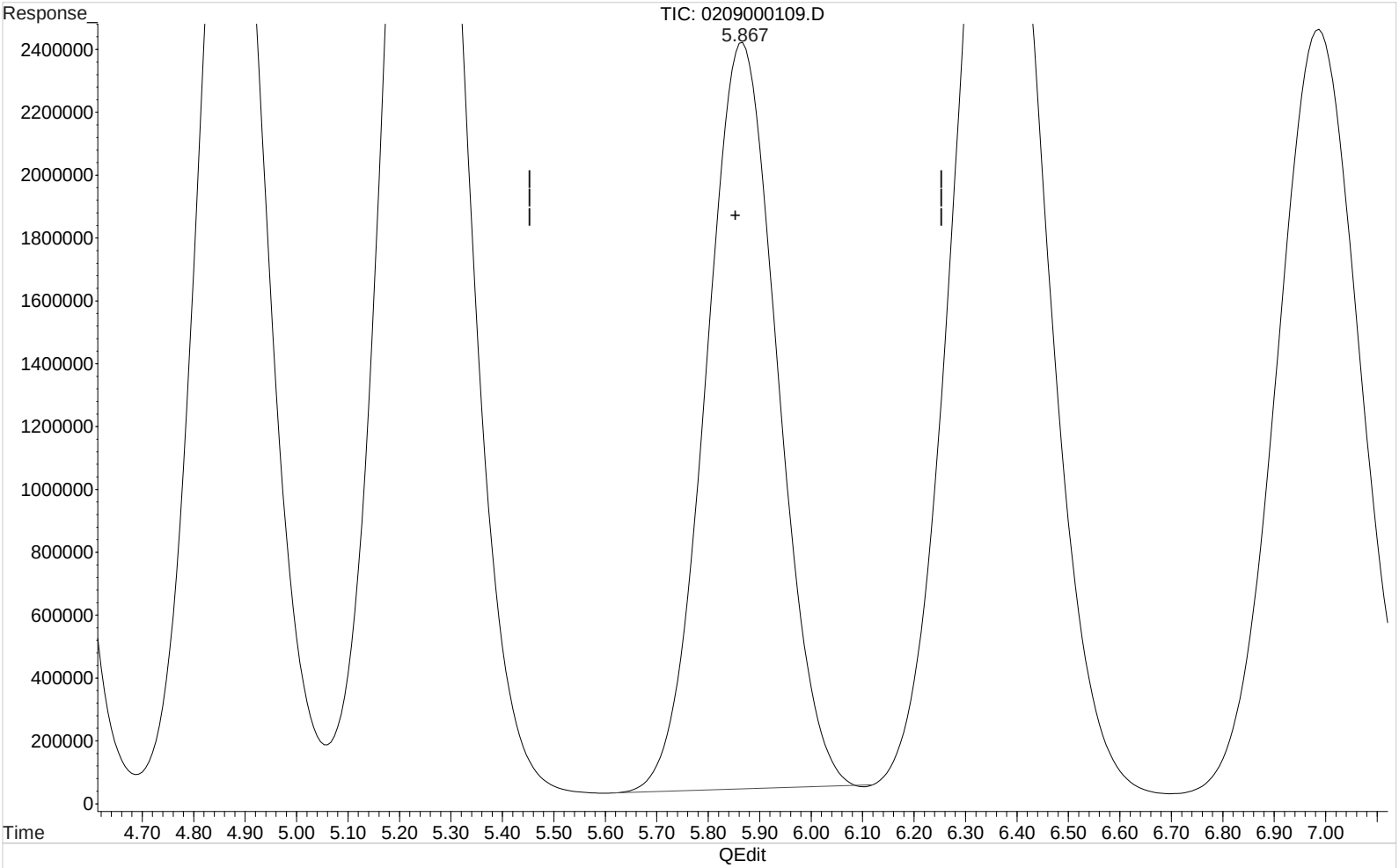
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:45:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.867min 987.309 ug/L

response 23211771

Manual Integration:

Before

02/13/17

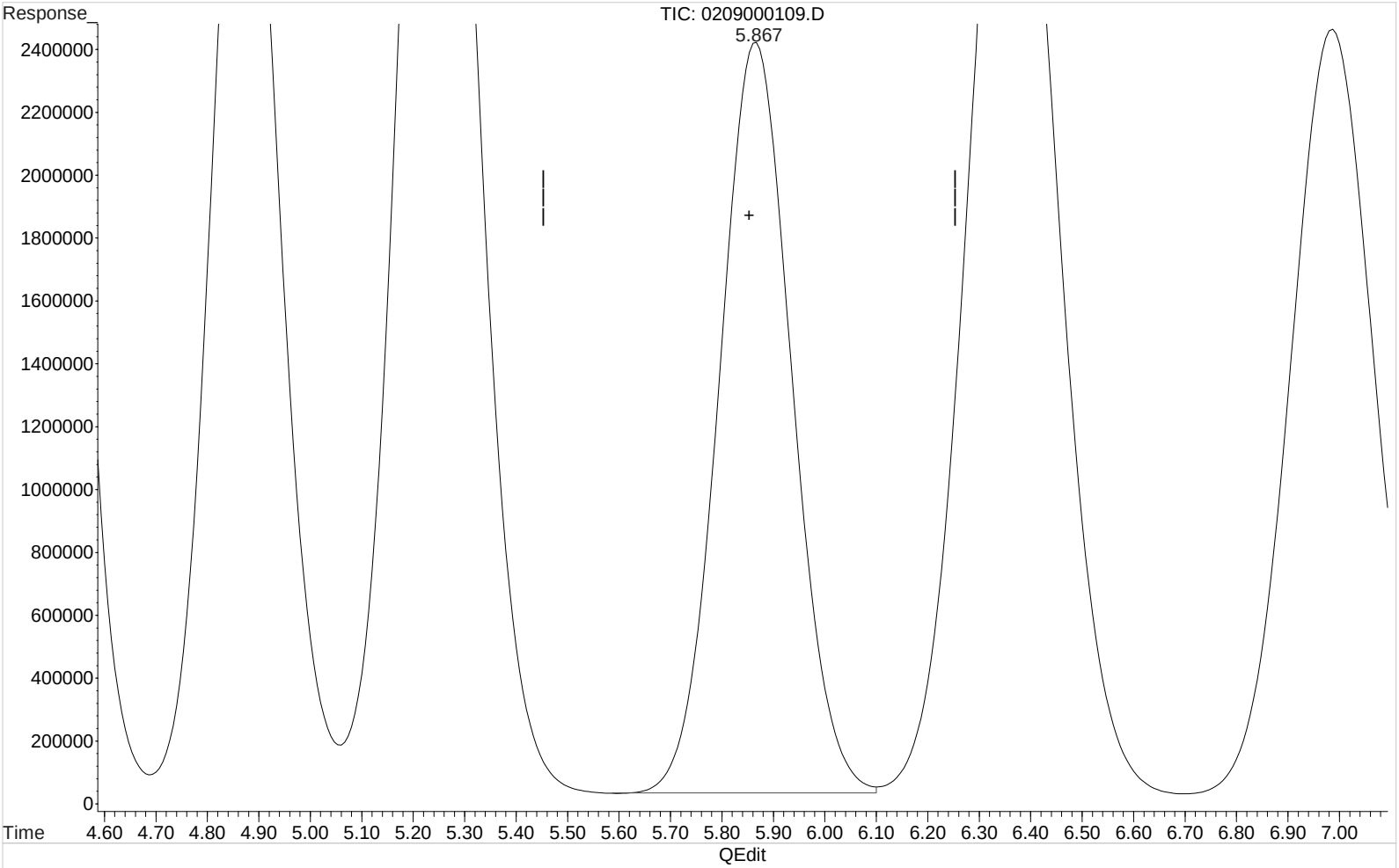
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:53:53 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.867min 1002.211 ug/L m

response 23562112

Manual Integration:

After

BLC

02/13/17

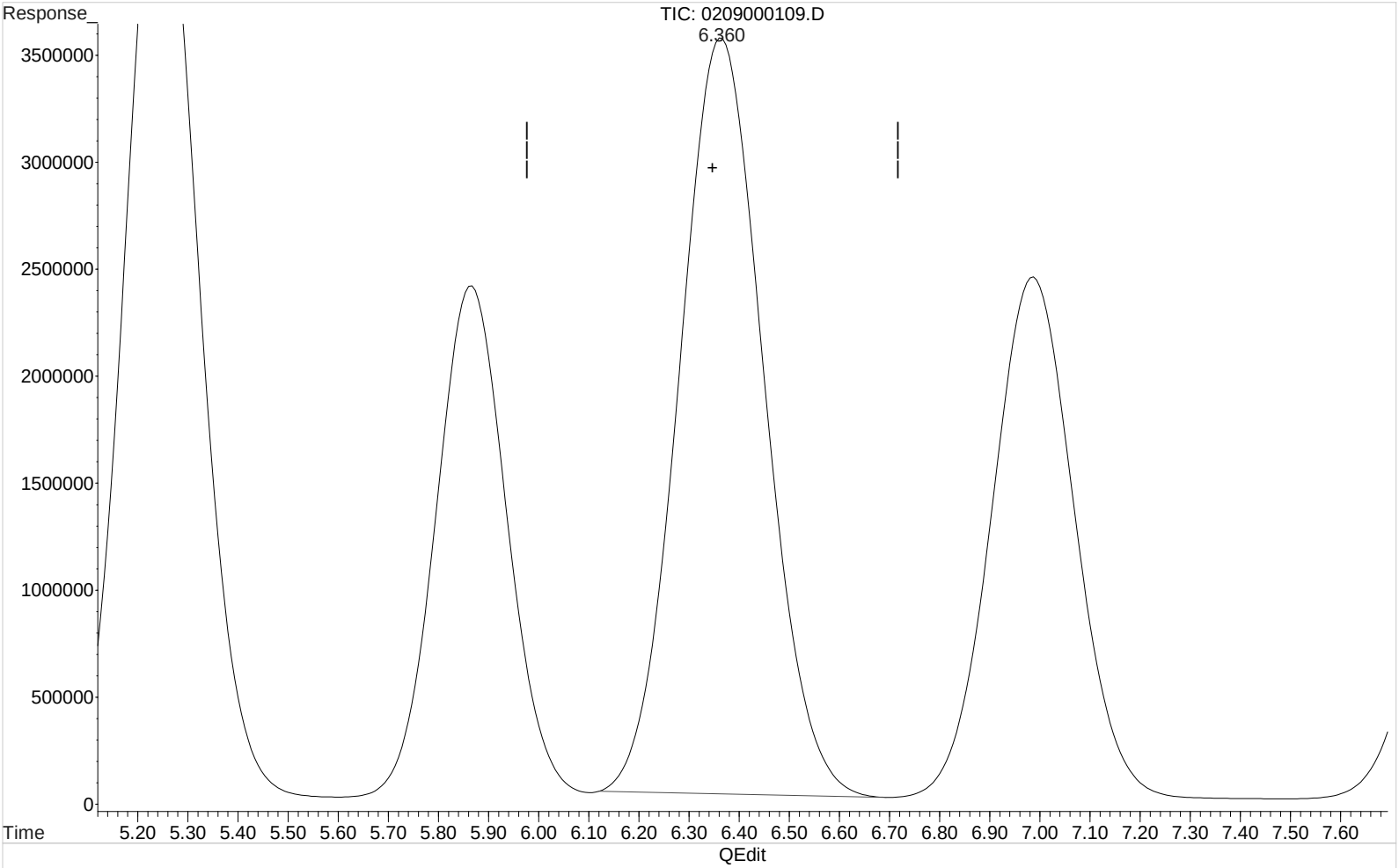
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:45:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.360min 1006.729 ug/L

response 41585985

Manual Integration:

Before

02/13/17

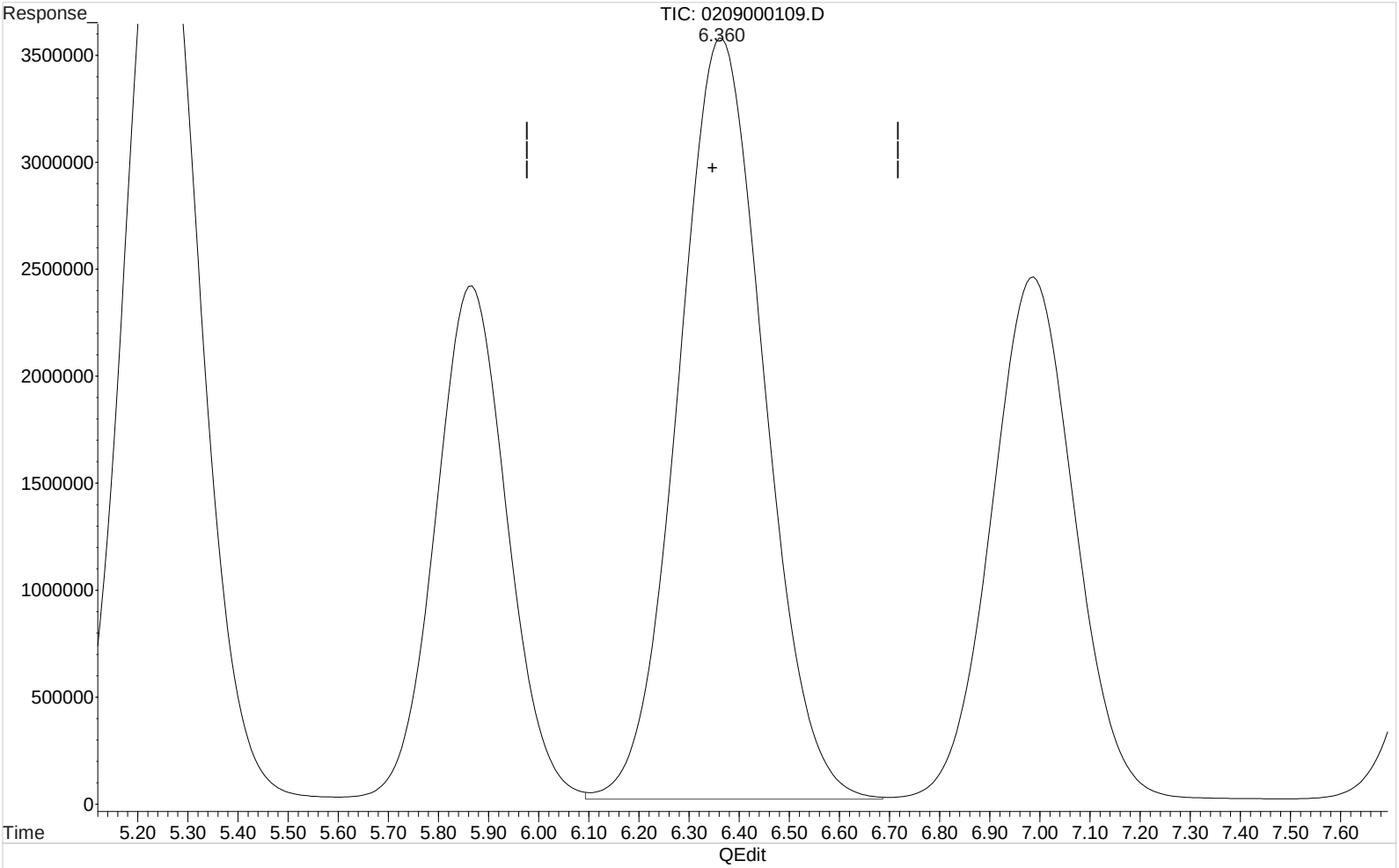
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:45:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(7) 2-Amino-4,6-DNT (T)

6.360min 1025.978 ug/L m

response 42381135

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:32:55 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds							
11)	S	1-Chloro-3-Nitrobenzene	8.140	53161422	2036.459	ug/L	
Target Compounds							
1)	T	HMX	2.553	31311485	2014.814	ug/L	m
2)	T	RDX	2.800	35554384	2015.185	ug/L	
3)	T	Nitrobenzene	4.487	73843312	2007.562	ug/L	m
4)	T	3,5-Dinitroaniline	5.247	92210324	2013.888	ug/L	
5)	T	4-Amino-2,6-DNT	4.873	62907414	2016.533	ug/L	
6)	T	2-NT	5.867	46778486	1986.311	ug/L	m
7)	T	2-Amino-4,6-DNT	6.367	83175566	2018.100	ug/L	m
8)	T	3-NT	6.987	55760509	2020.510	ug/L	m
9)	T	1,3-DNB	9.133	109641297	2001.567	ug/L	
10)	T	4-NT	7.853	45953635	2043.136	ug/L	m
12)	T	2,6-DNT	8.820	49007058	2027.122	ug/L	
13)	T	2,4-DNT	14.807	100936143	2009.326	ug/L	
14)	T	Tetryl	12.993	55778584	1870.117	ug/L	
15)	T	1,3,5-TNB	19.800	81579082	2002.423	ug/L	
16)	T	2,4,6-TNT	20.787	76817979	2005.253	ug/L	

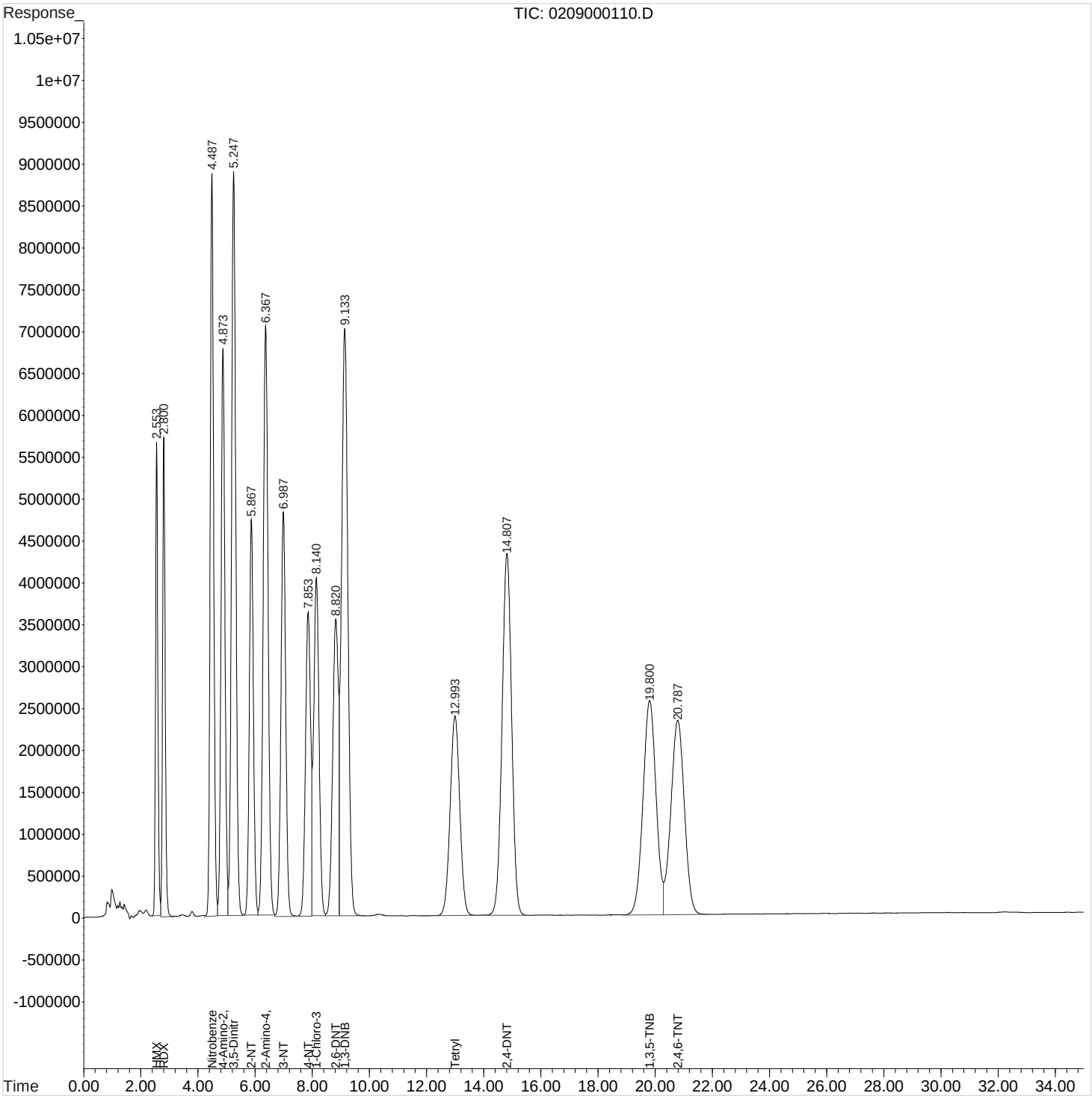
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:32:55 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

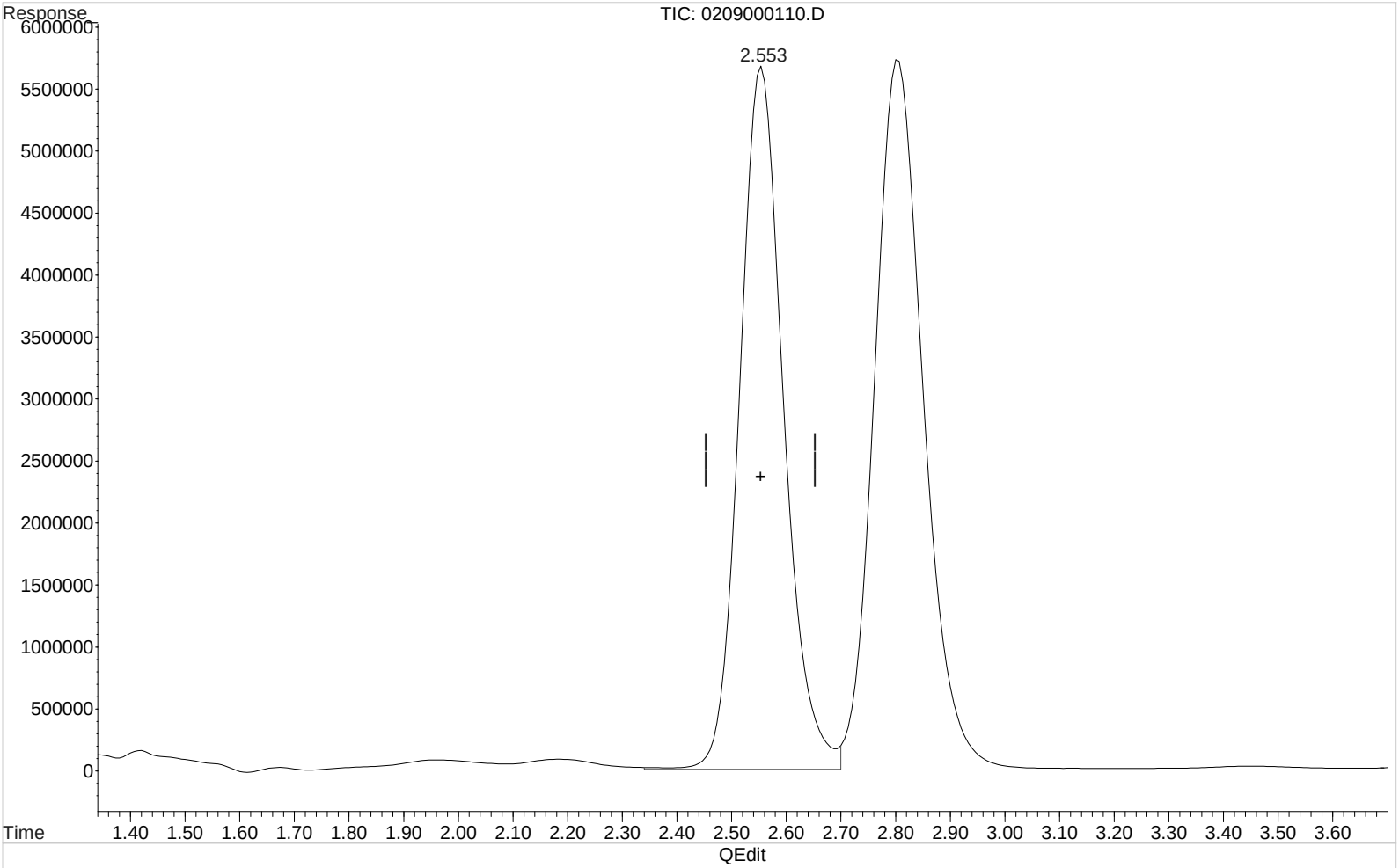


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.553min 2039.049 ug/L

response 31688113

Manual Integration:

Before

02/13/17

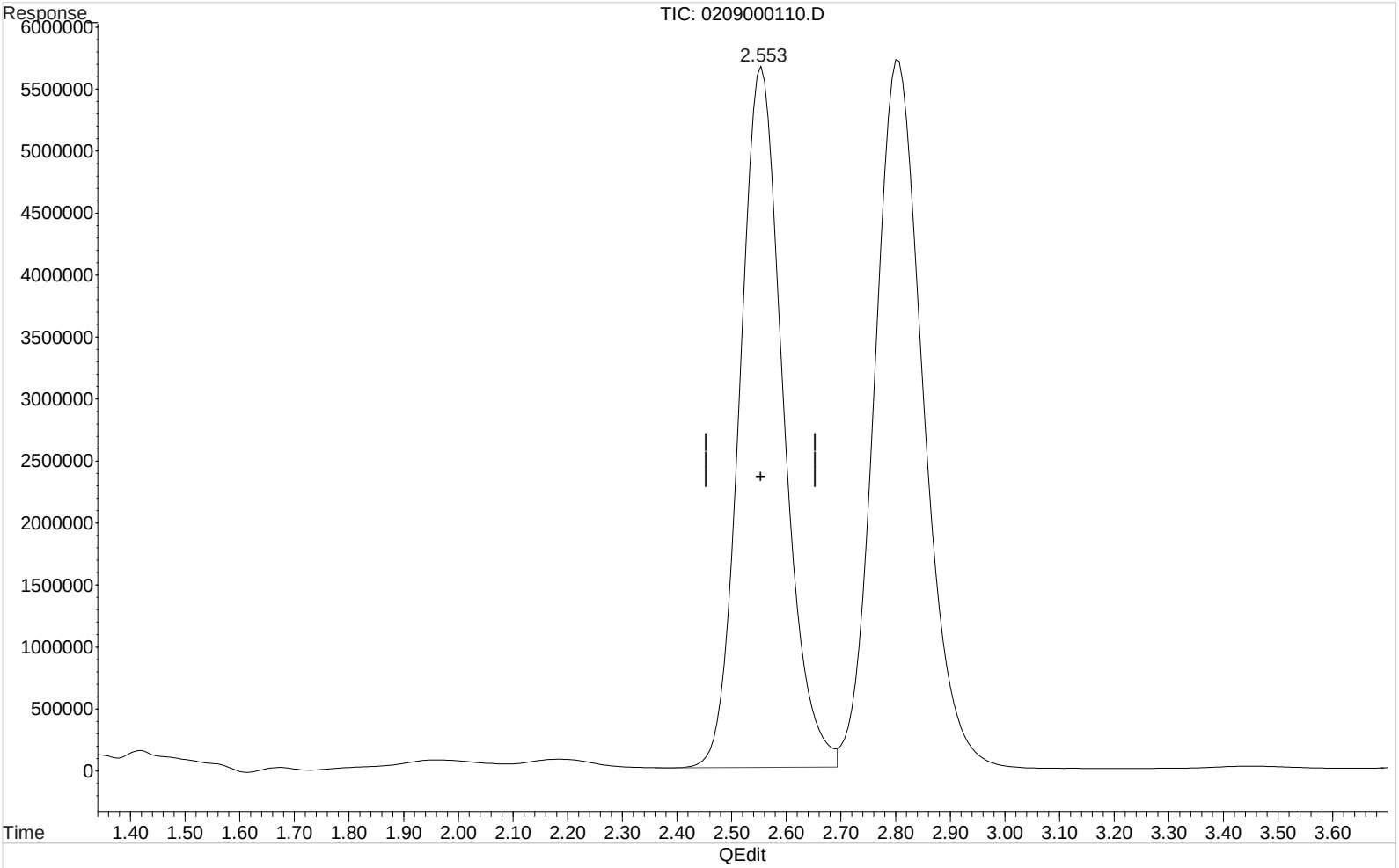
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(1) HMX (T)

2.553min 2014.814 ug/L m

response 31311485

Manual Integration:

After

BLC

02/13/17

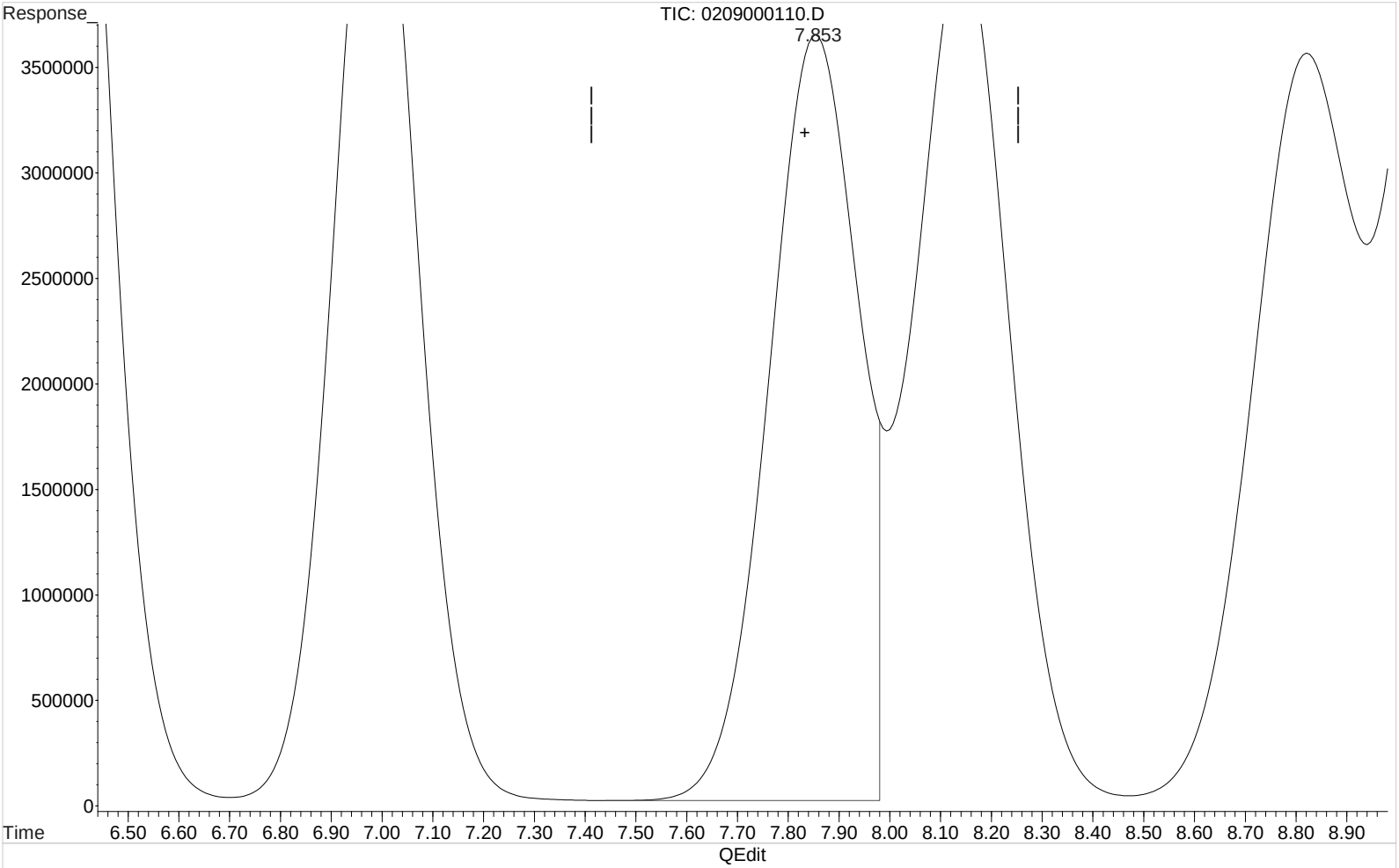
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.853min 1977.033 ug/L

response 44466866

Manual Integration:

Before

02/13/17

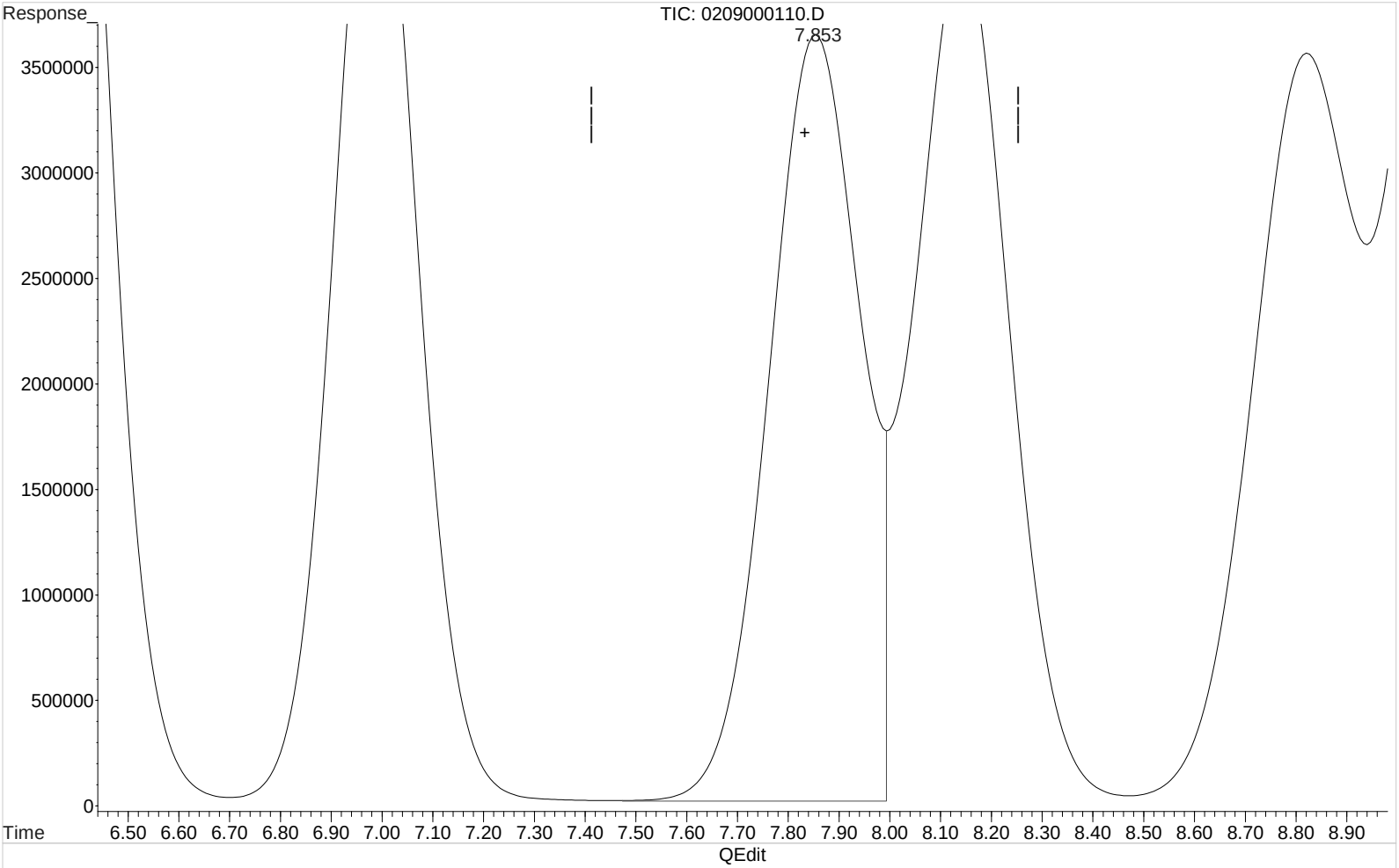
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.853min 2043.136 ug/L m

response 45953635

Manual Integration:

After

BLC

02/13/17

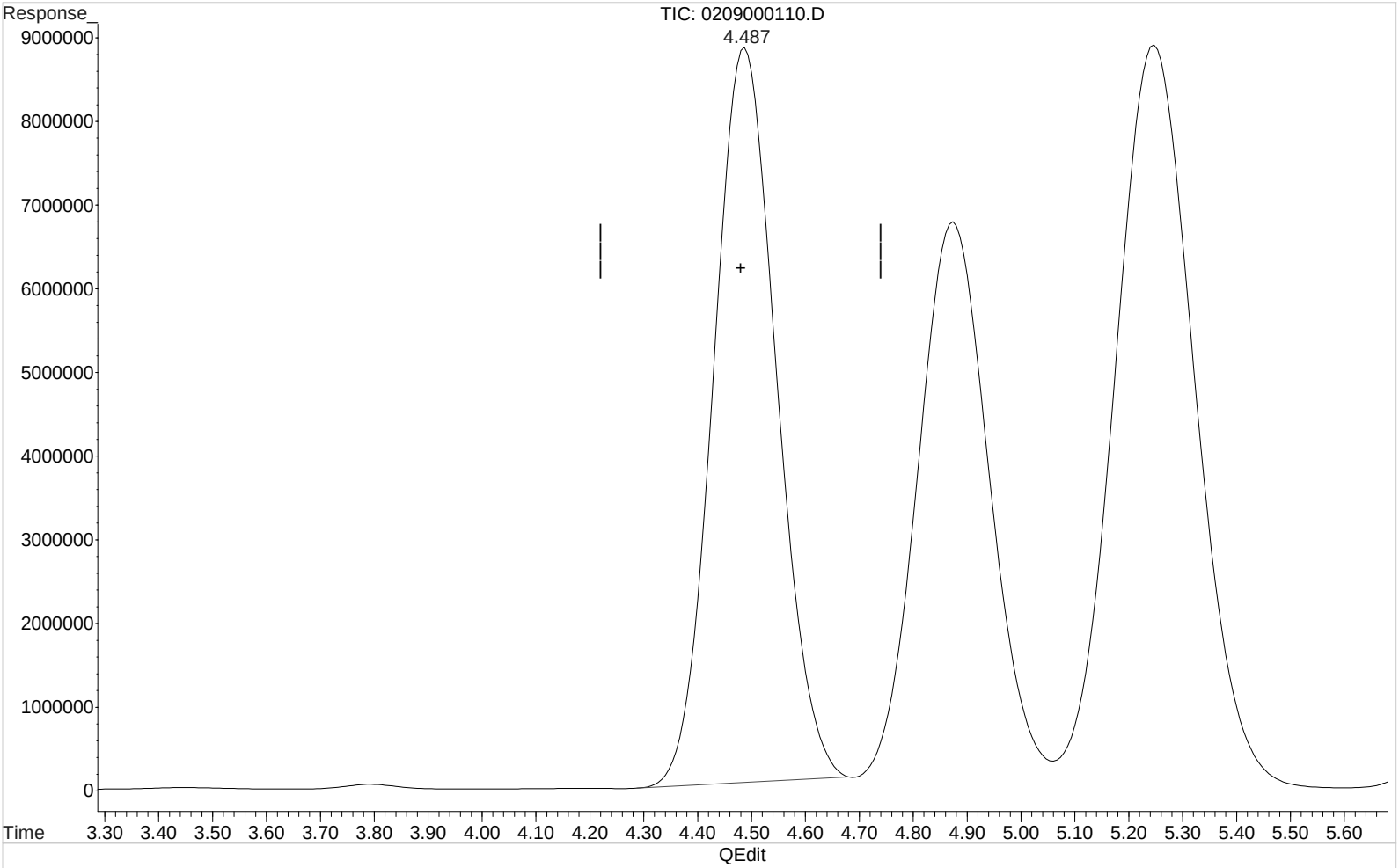
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 1955.136 ug/L

response 71914932

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

(b) (6)

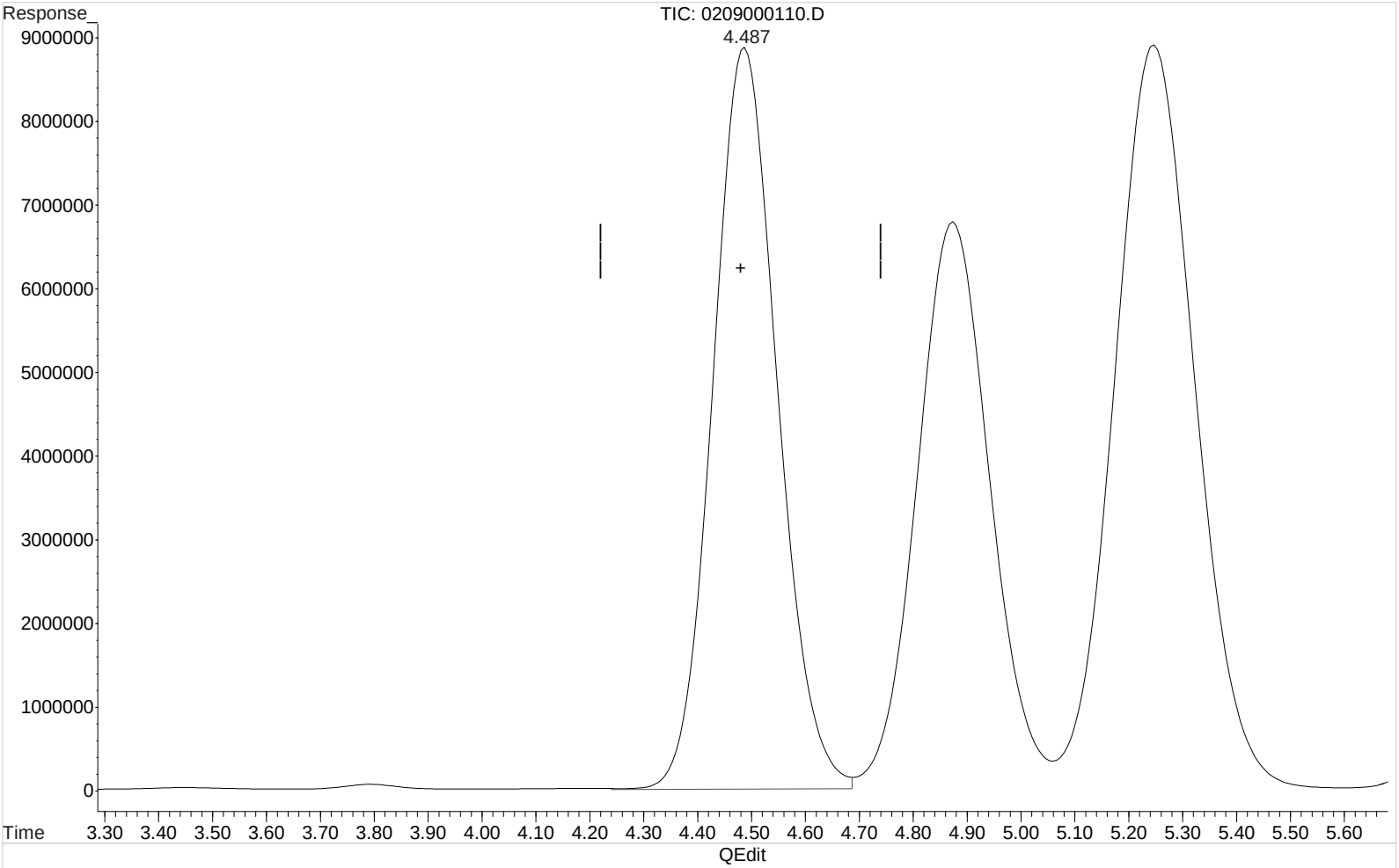
2/13/17

2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 2007.562 ug/L m

response 73843312

Manual Integration:

After

BLC

02/13/17

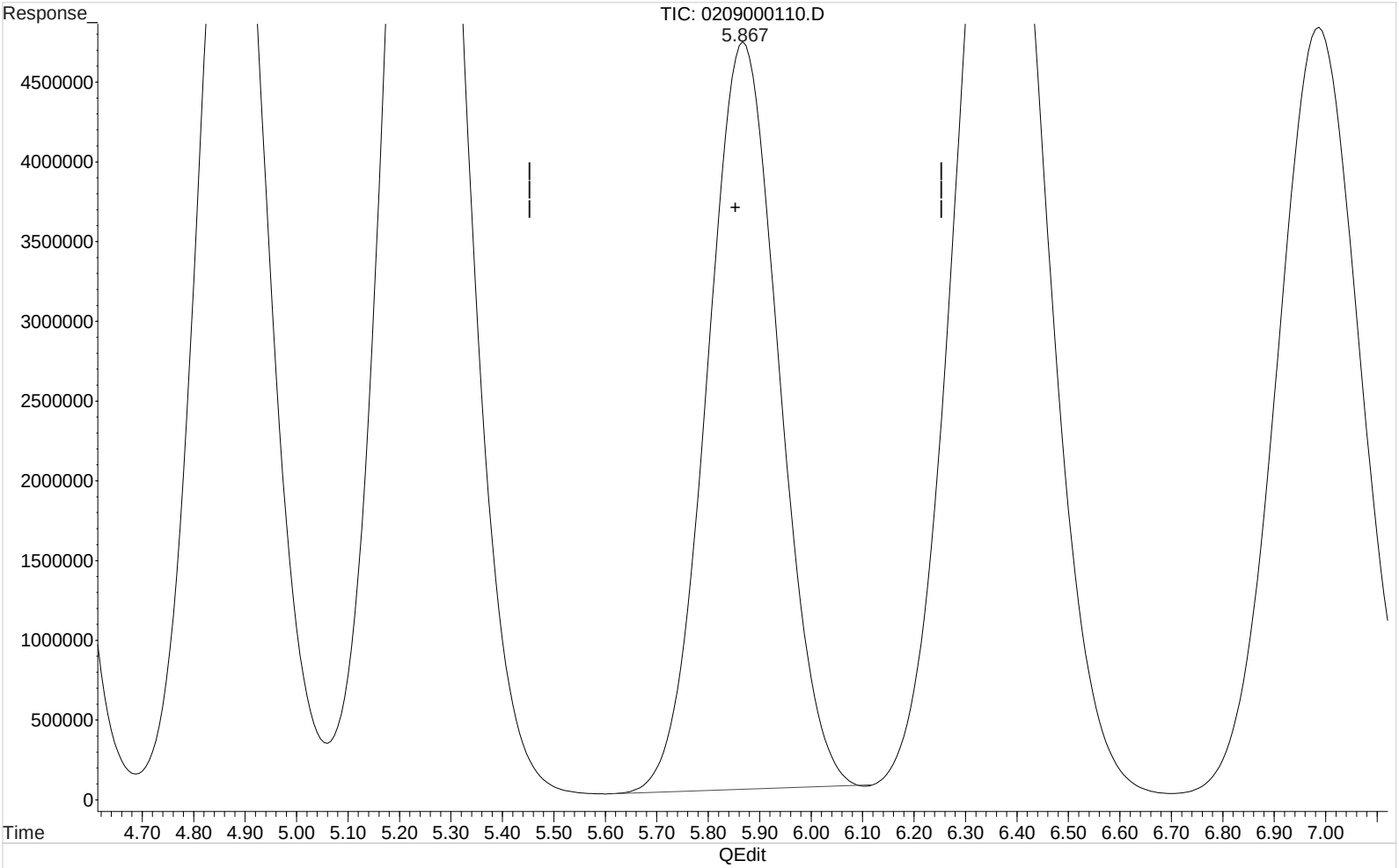
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.867min 1951.261 ug/L

response 45953051

Manual Integration:

Before

02/13/17

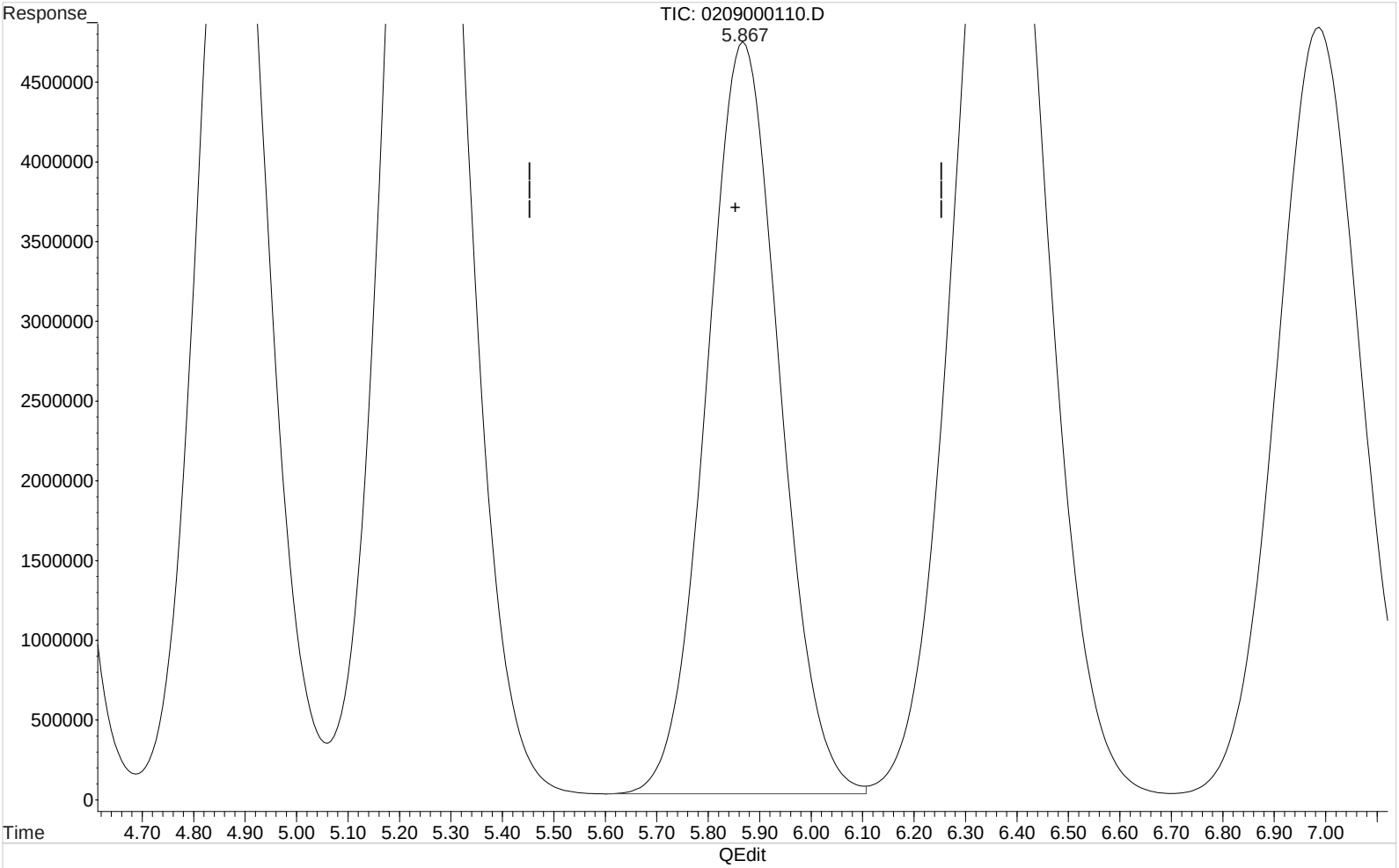
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.867min 1986.311 ug/L m

response 46778486

Manual Integration:

After

BLC

02/13/17

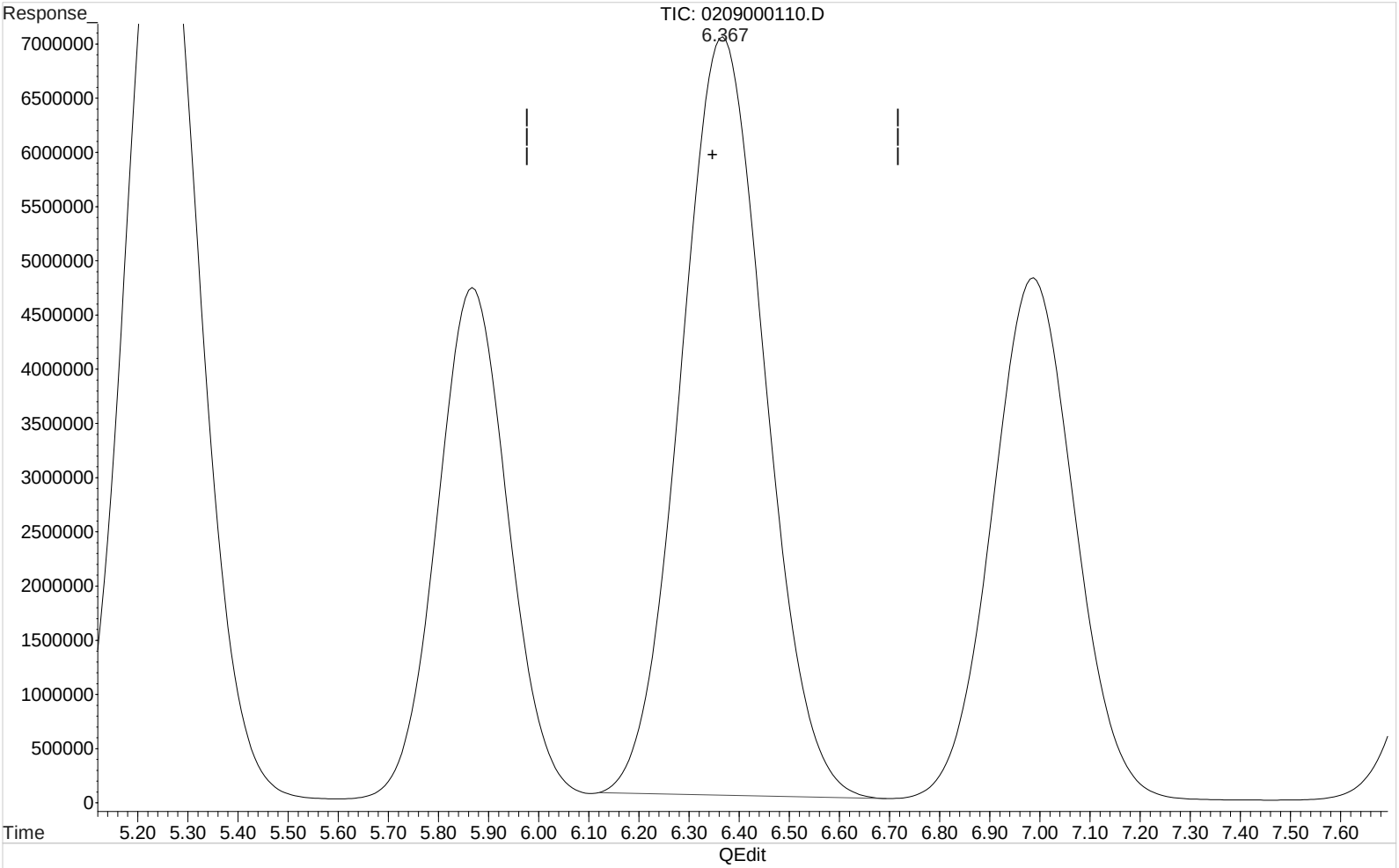
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.367min 1990.374 ug/L

response 82032832

Manual Integration:

Before

02/13/17

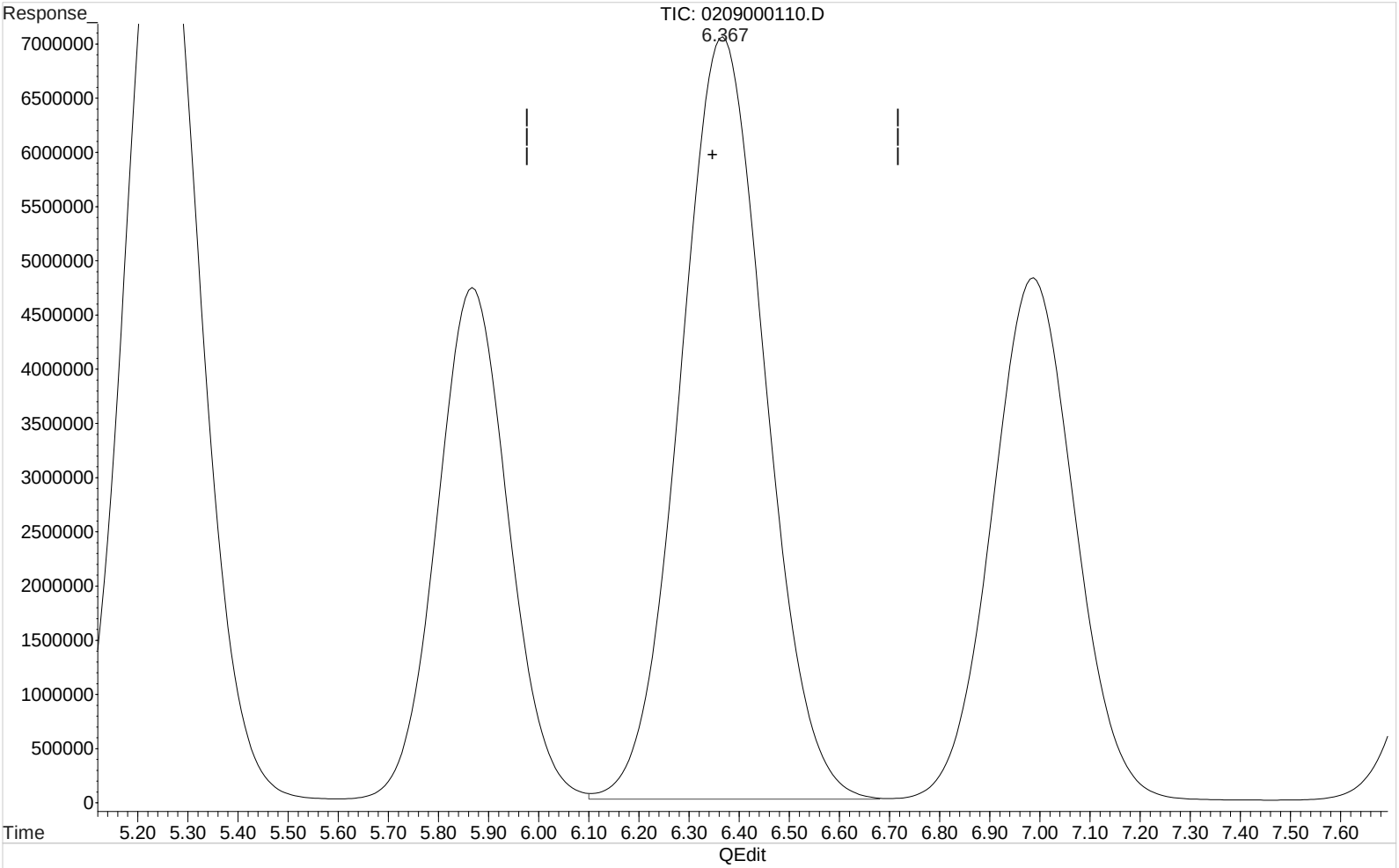
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.367min 2018.100 ug/L m

response 83175566

Manual Integration:

After

BLC

02/13/17

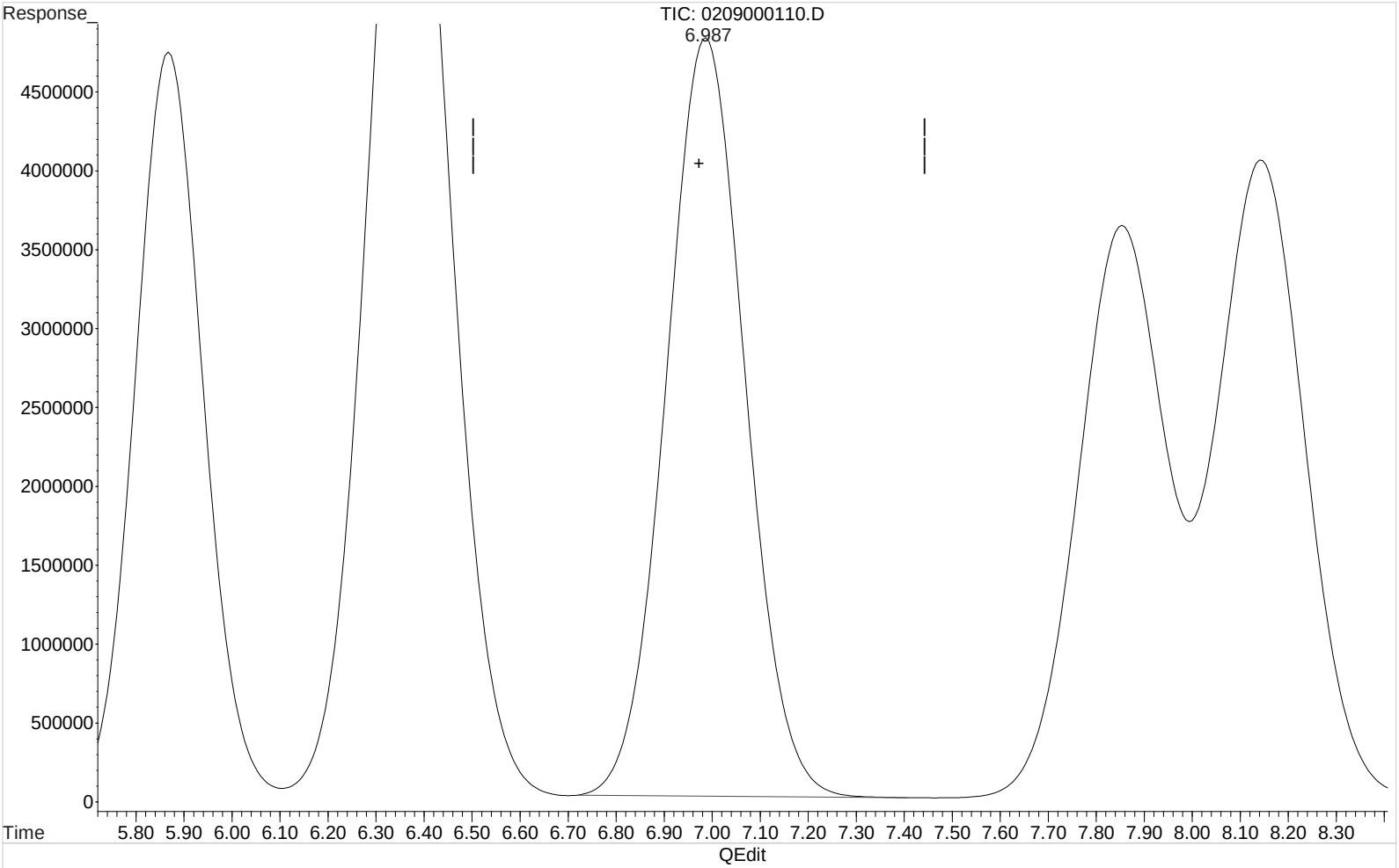
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(8) 3-NT (T)

6.987min 1994.277 ug/L

response 55036545

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b) (6)

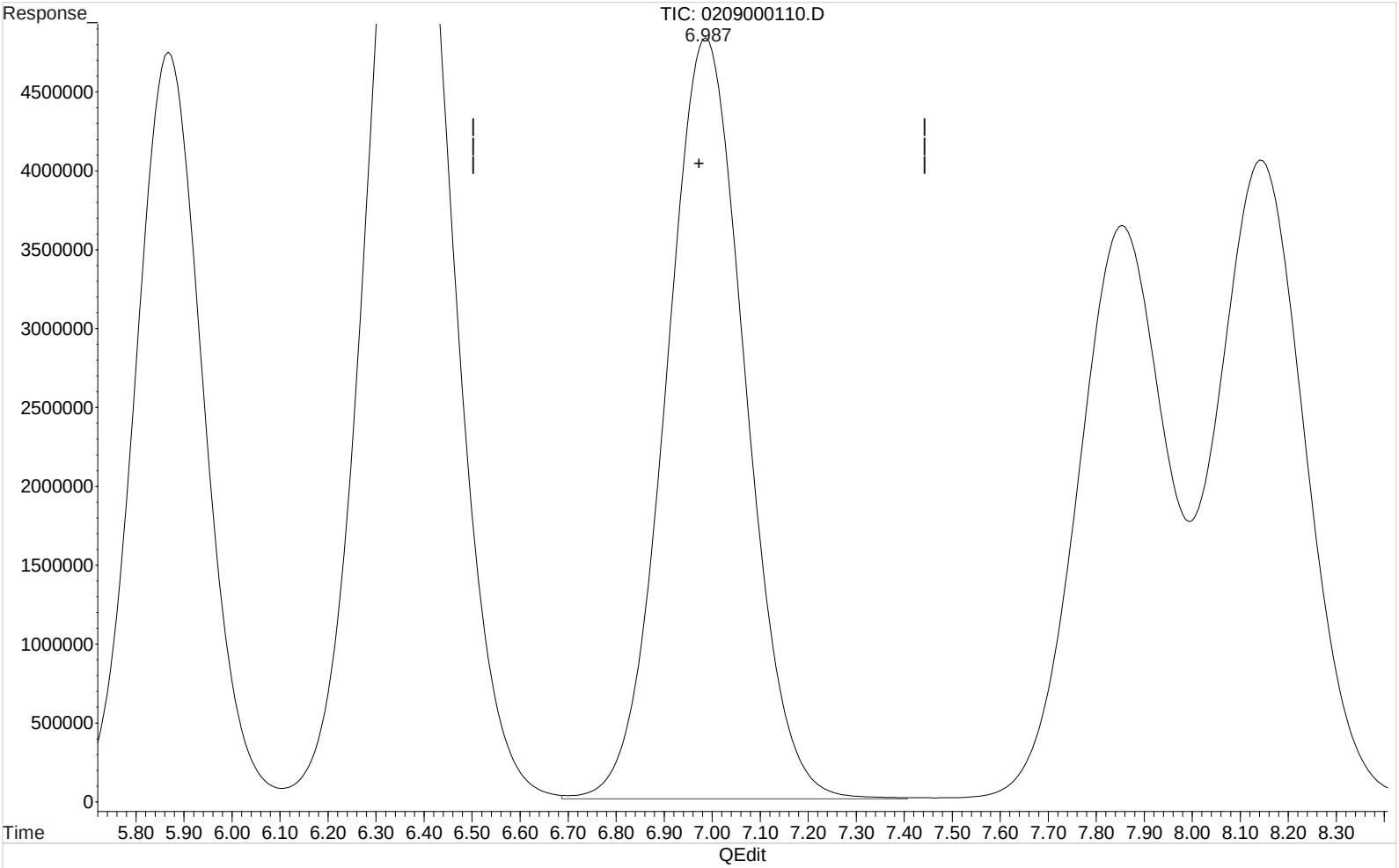
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(8) 3-NT (T)

6.987min 2020.510 ug/L m

response 55760509

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:28:34 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:17:26 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds							
11)	S	1-Chloro-3-Nitrobenzene	8.147	134147712	5211.143	ug/L	
Target Compounds							
1)	T	HMX	2.553	79282682	5154.023	ug/L	
2)	T	RDX	2.800	89521974	5111.845	ug/L	
3)	T	Nitrobenzene	4.487	185665109	5071.799	ug/L	m
4)	T	3,5-Dinitroaniline	5.247	231796987	5094.312	ug/L	
5)	T	4-Amino-2,6-DNT	4.873	157685856	5082.517	ug/L	
6)	T	2-NT	5.867	118315059	5035.938	ug/L	m
7)	T	2-Amino-4,6-DNT	6.367	208559971	5091.027	ug/L	m
8)	T	3-NT	6.987	138478990	5026.831	ug/L	
9)	T	1,3-DNB	9.140	276098652	5060.762	ug/L	
10)	T	4-NT	7.853	111473856	4934.615	ug/L	
12)	T	2,6-DNT	8.820	122414021	5095.886	ug/L	
13)	T	2,4-DNT	14.813	253409776	5067.205	ug/L	
14)	T	Tetryl	13.007	146489426	4868.306	ug/L	
15)	T	1,3,5-TNB	19.813	205131325	5052.852	ug/L	
16)	T	2,4,6-TNT	20.807	193626551	5082.074	ug/L	

(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)

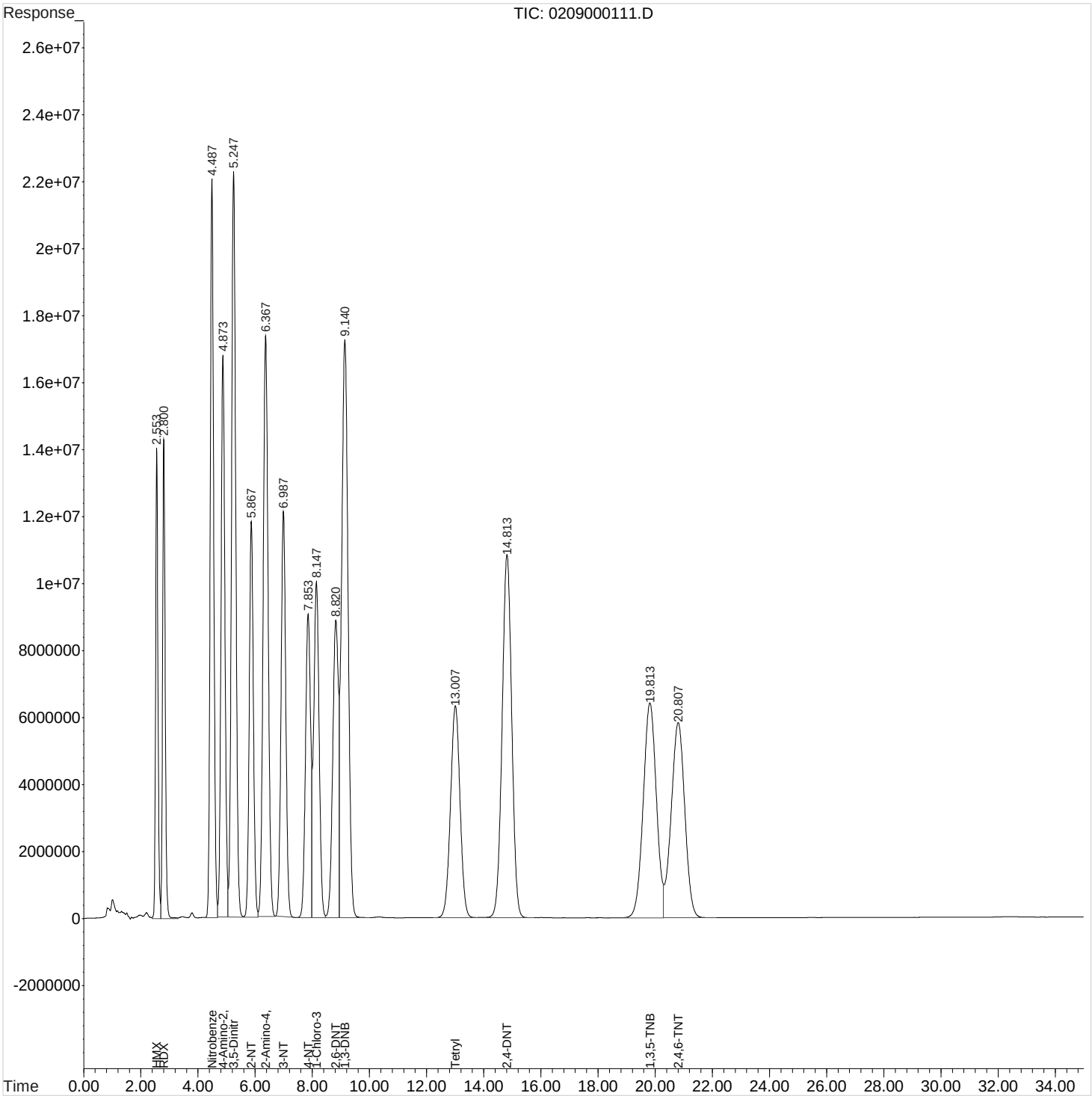
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:28:34 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:17:26 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

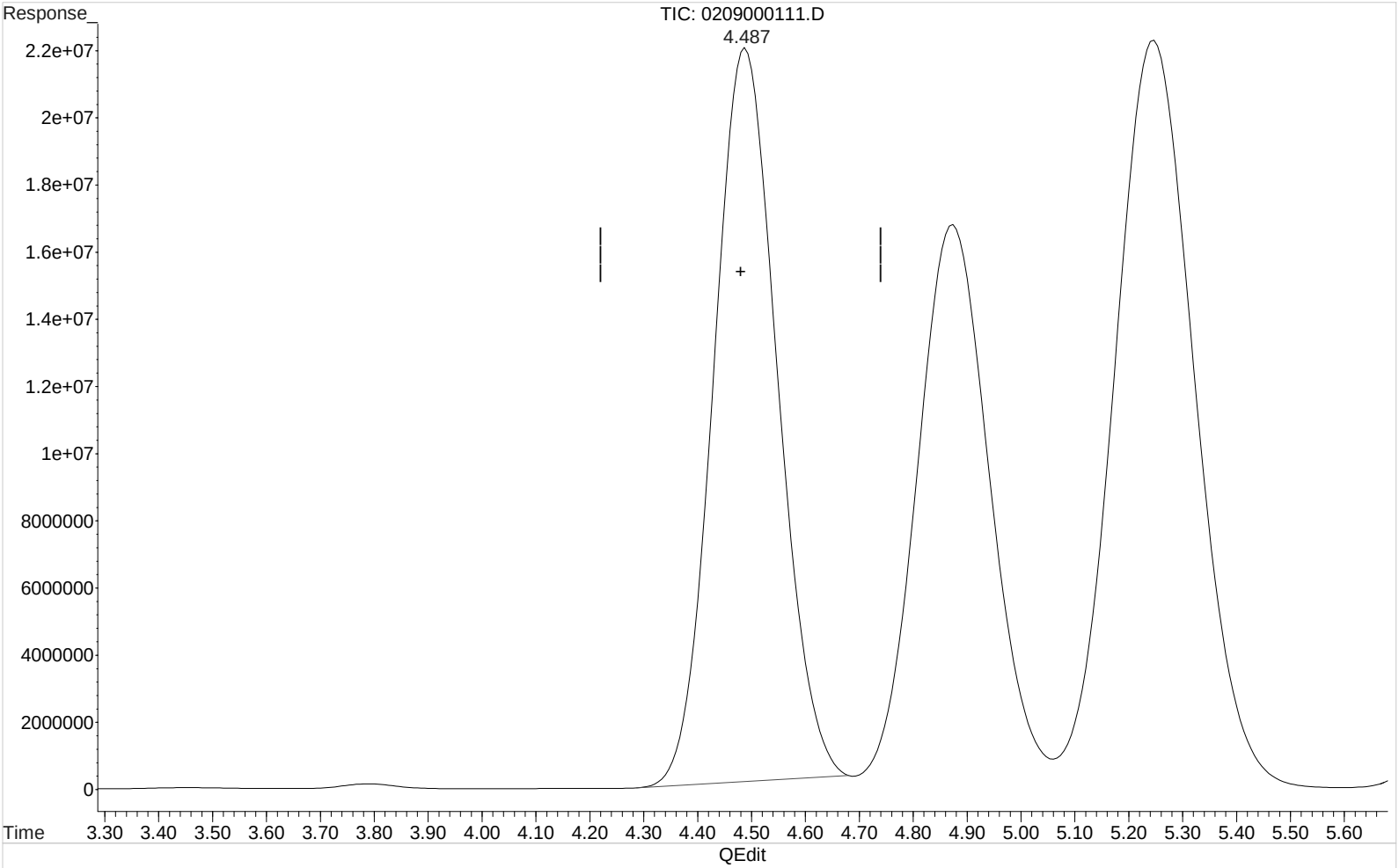


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:26:24 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:17:26 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 4932.834 ug/L

response 180577966

Manual Integration:

Before

02/13/17

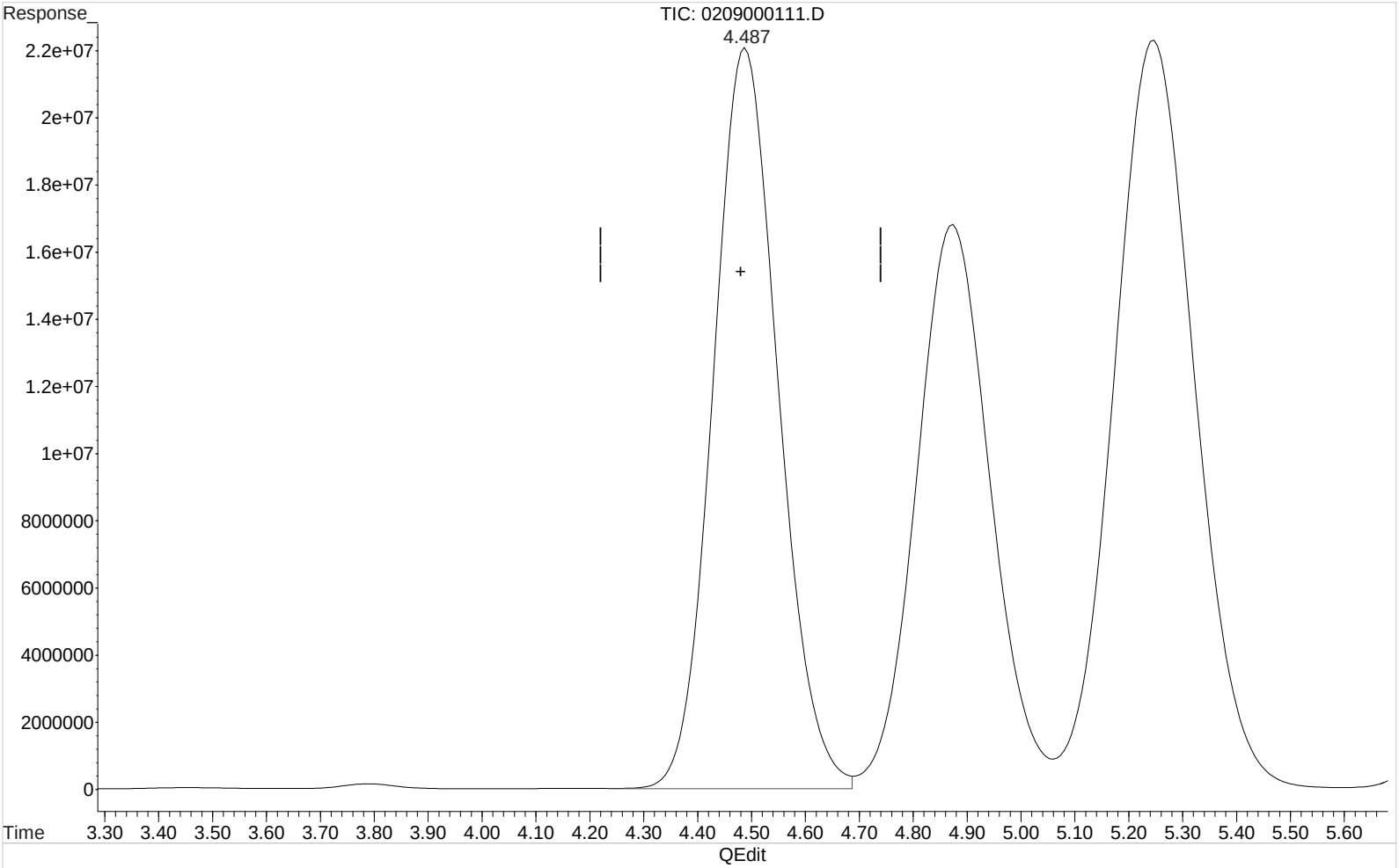
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:26:24 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:17:26 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 5071.799 ug/L m

response 185665109

Manual Integration:

After

BLC

02/13/17

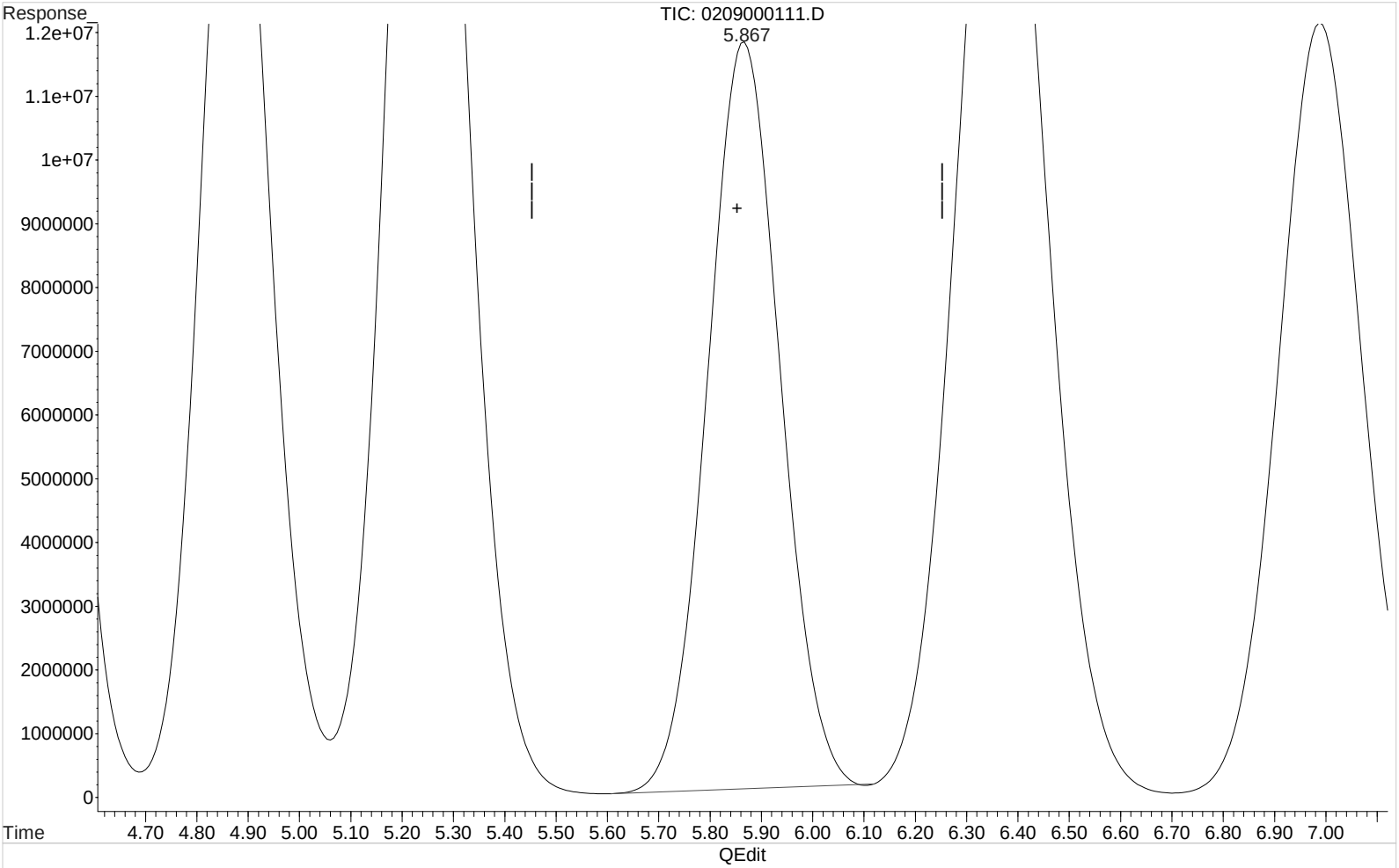
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:26:24 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:17:26 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.867min 4916.930 ug/L

response 115519071

Manual Integration:

Before

02/13/17

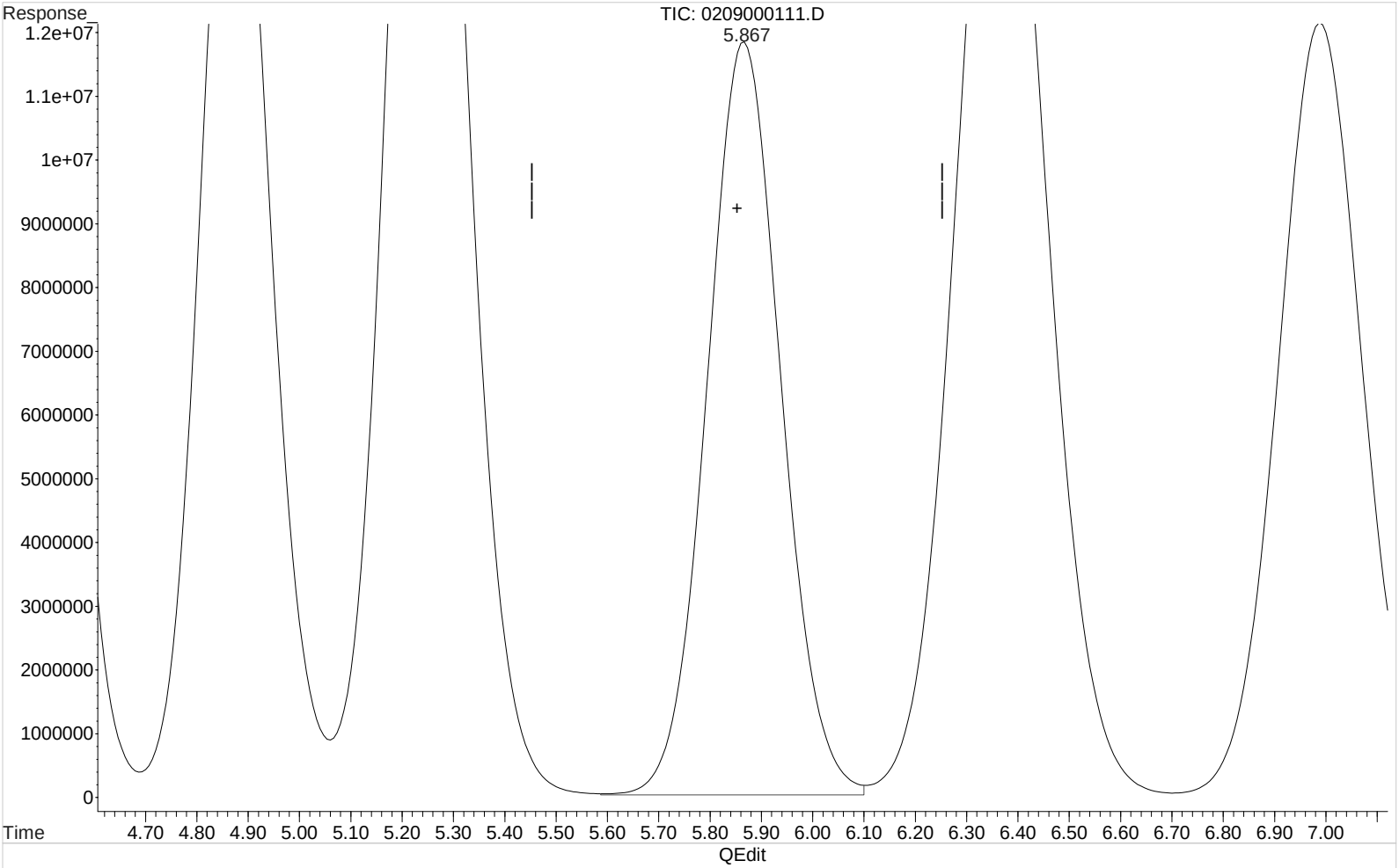
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:26:24 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:17:26 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.867min 5035.938 ug/L m

response 118315059

Manual Integration:

After

BLC

02/13/17

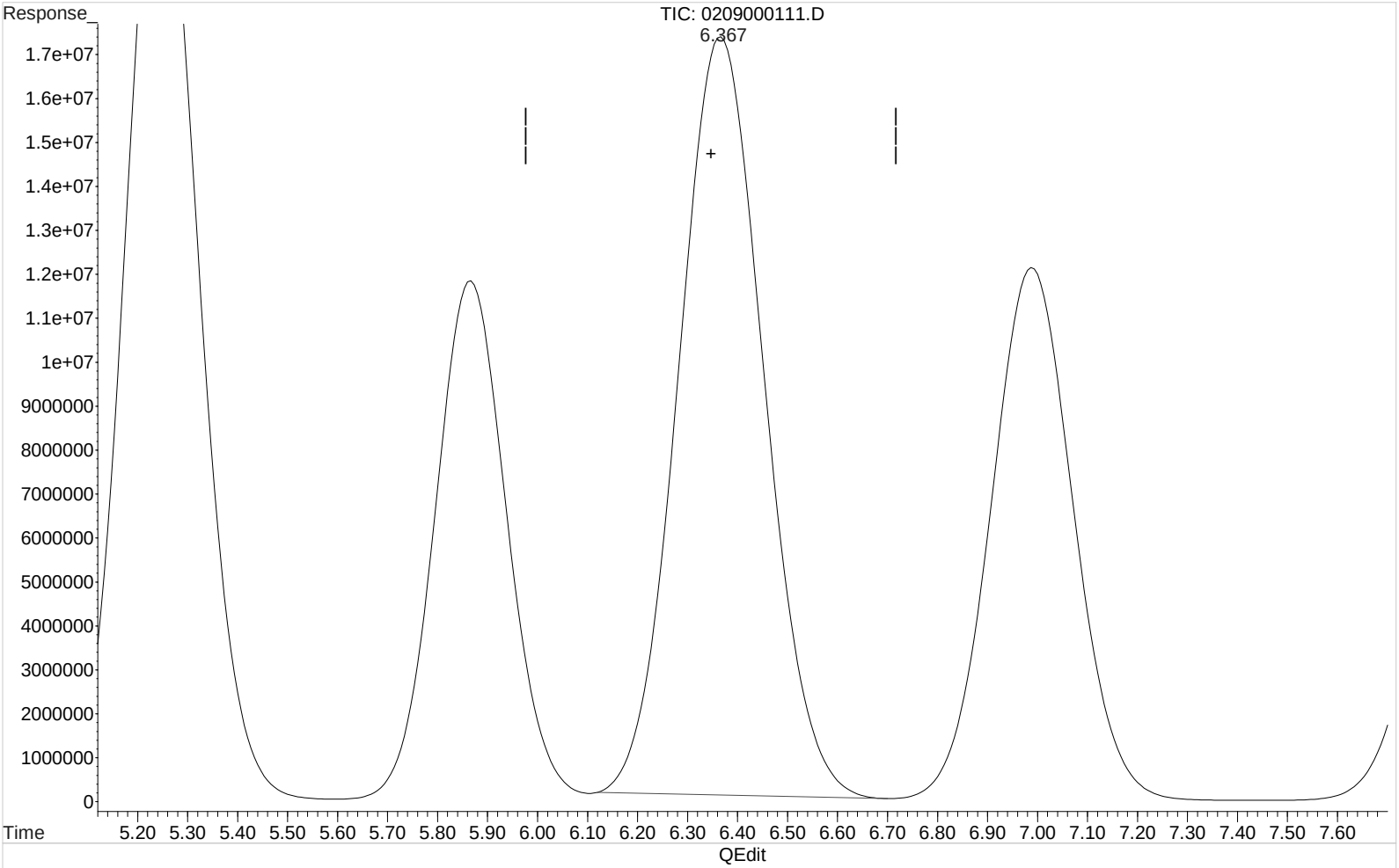
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:26:24 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:17:26 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(7) 2-Amino-4,6-DNT (T)

6.367min 5019.922 ug/L

response 205647048

Manual Integration:

Before

02/13/17

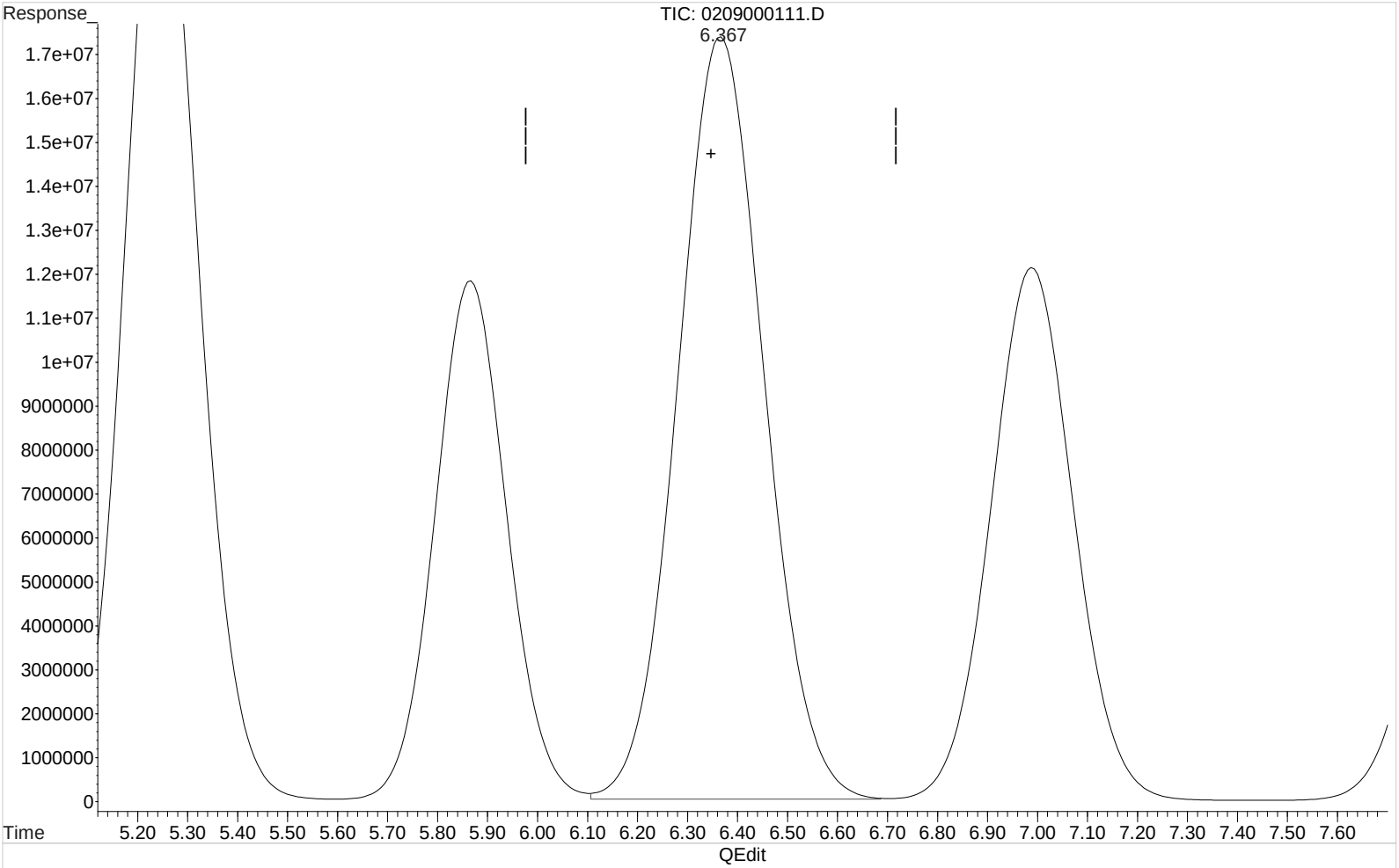
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:26:24 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:17:26 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.367min 5091.027 ug/L m

response 208559971

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:17:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
11) S	1-Chloro-3-Nitrobenzene	8.147	257923438	10038.822	ug/L	m
Target Compounds						
1) T	HMX	2.560	156330222	10330.871	ug/L	
2) T	RDX	2.807	177001774	10216.476	ug/L	
3) T	Nitrobenzene	4.493	370376696	10237.897	ug/L	
4) T	3,5-Dinitroaniline	5.247	458842323	10169.818	ug/L	m
5) T	4-Amino-2,6-DNT	4.873	313989796	10243.922	ug/L	m
6) T	2-NT	5.867	236863088	10164.931	ug/L	m
7) T	2-Amino-4,6-DNT	6.367	413821685	10205.169	ug/L	m
8) T	3-NT	6.987	279071838	10264.235	ug/L	m
9) T	1,3-DNB	9.140	552448178	10255.466	ug/L	
10) T	4-NT	7.853	225919896	10001.598	ug/L	m
12) T	2,6-DNT	8.827	240477250	10021.333	ug/L	
13) T	2,4-DNT	14.813	504050621	10159.346	ug/L	
14) T	Tetryl	13.000	305802840	10330.977	ug/L	
15) T	1,3,5-TNB	19.813	409388283	10169.760	ug/L	
16) T	2,4,6-TNT	20.800	385651394	10247.235	ug/L	

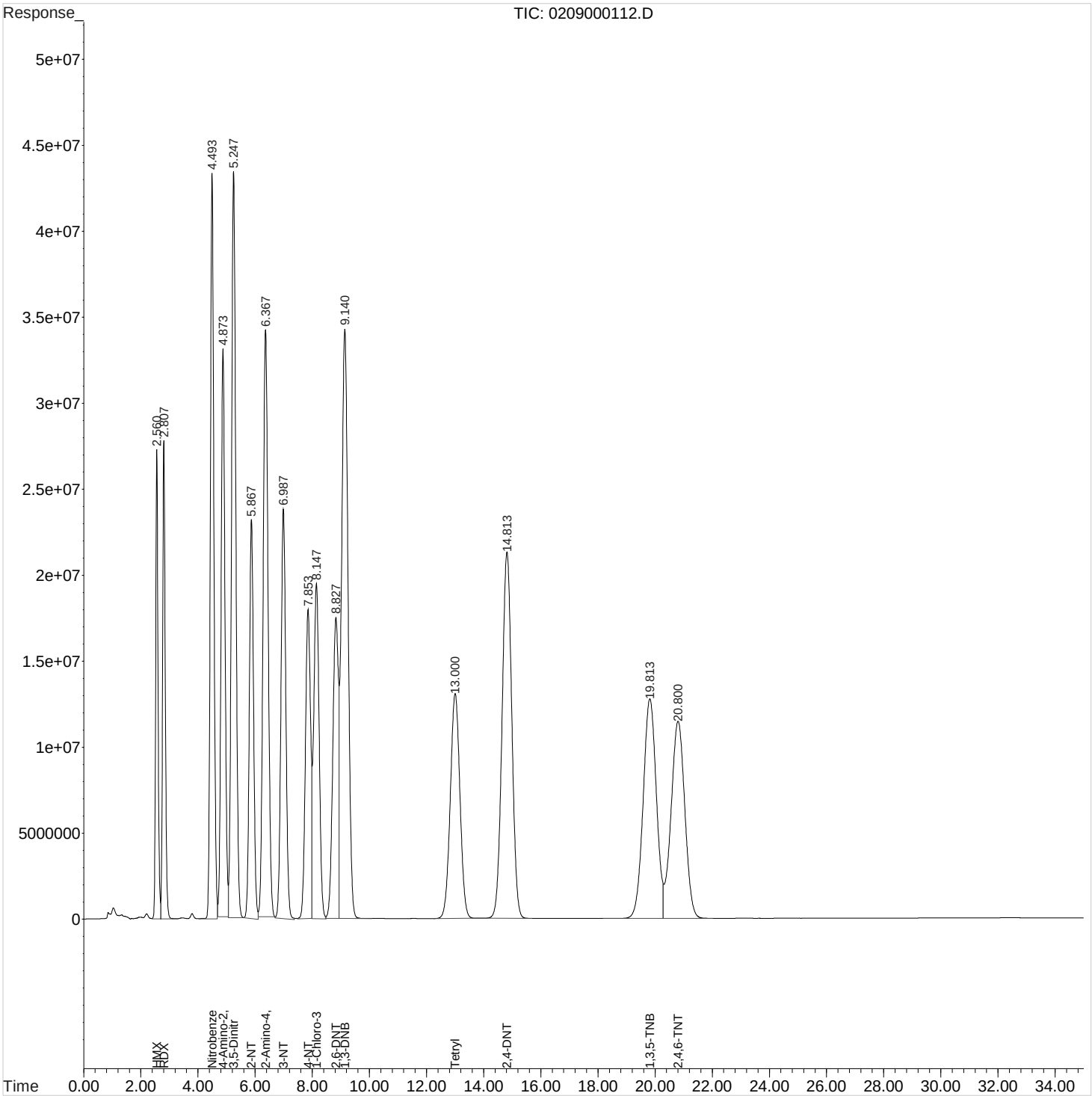
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:17:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

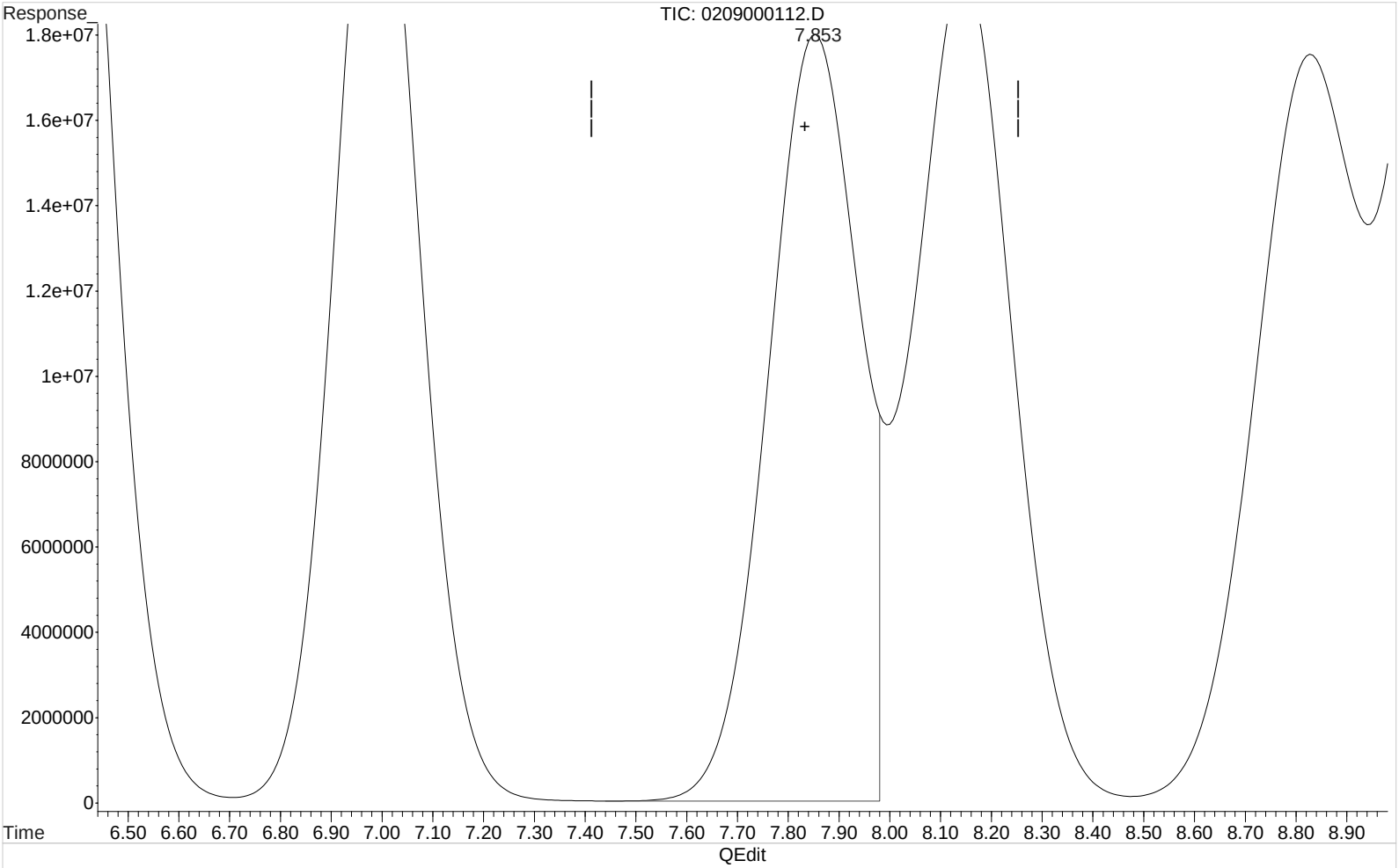


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.853min 9829.535 ug/L

response 222033281

Manual Integration:

Before

02/13/17

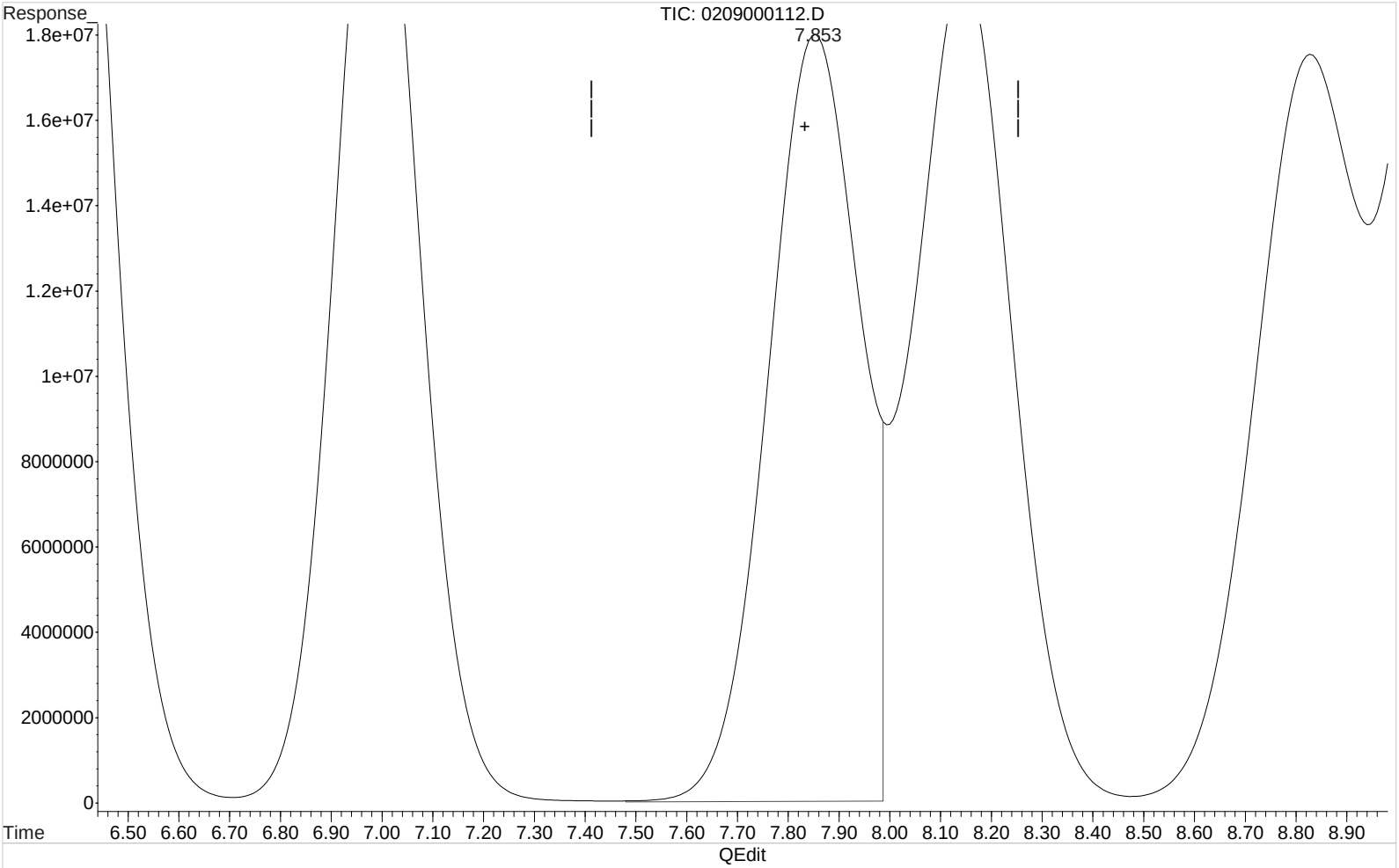
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.853min 10001.598 ug/L m

response 225919896

Manual Integration:

After

BLC

02/13/17

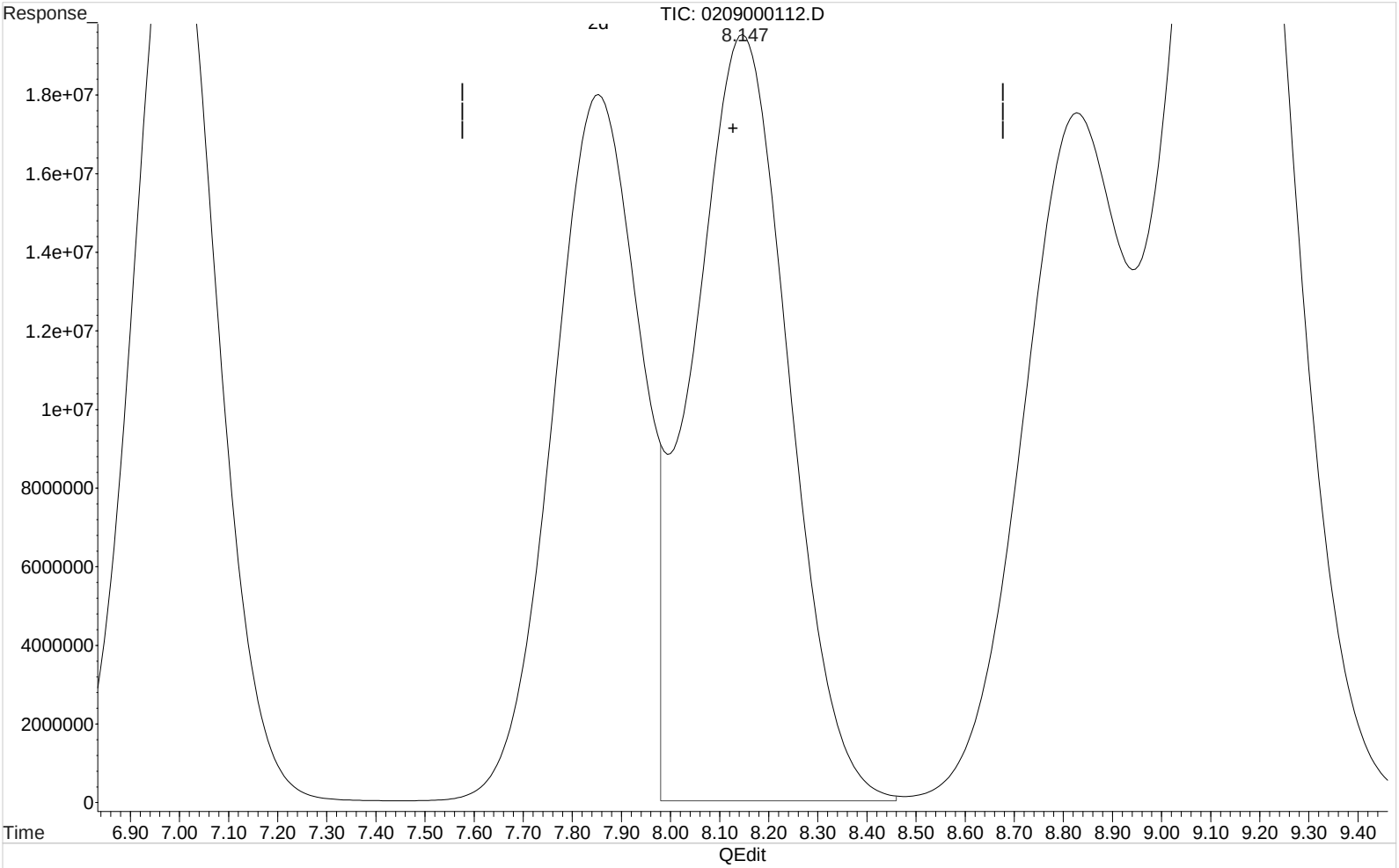
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(11) 1-Chloro-3-Nitrobenzene (S)

8.147min 10288.229 ug/L

response 264331346

Manual Integration:

Before

02/13/17

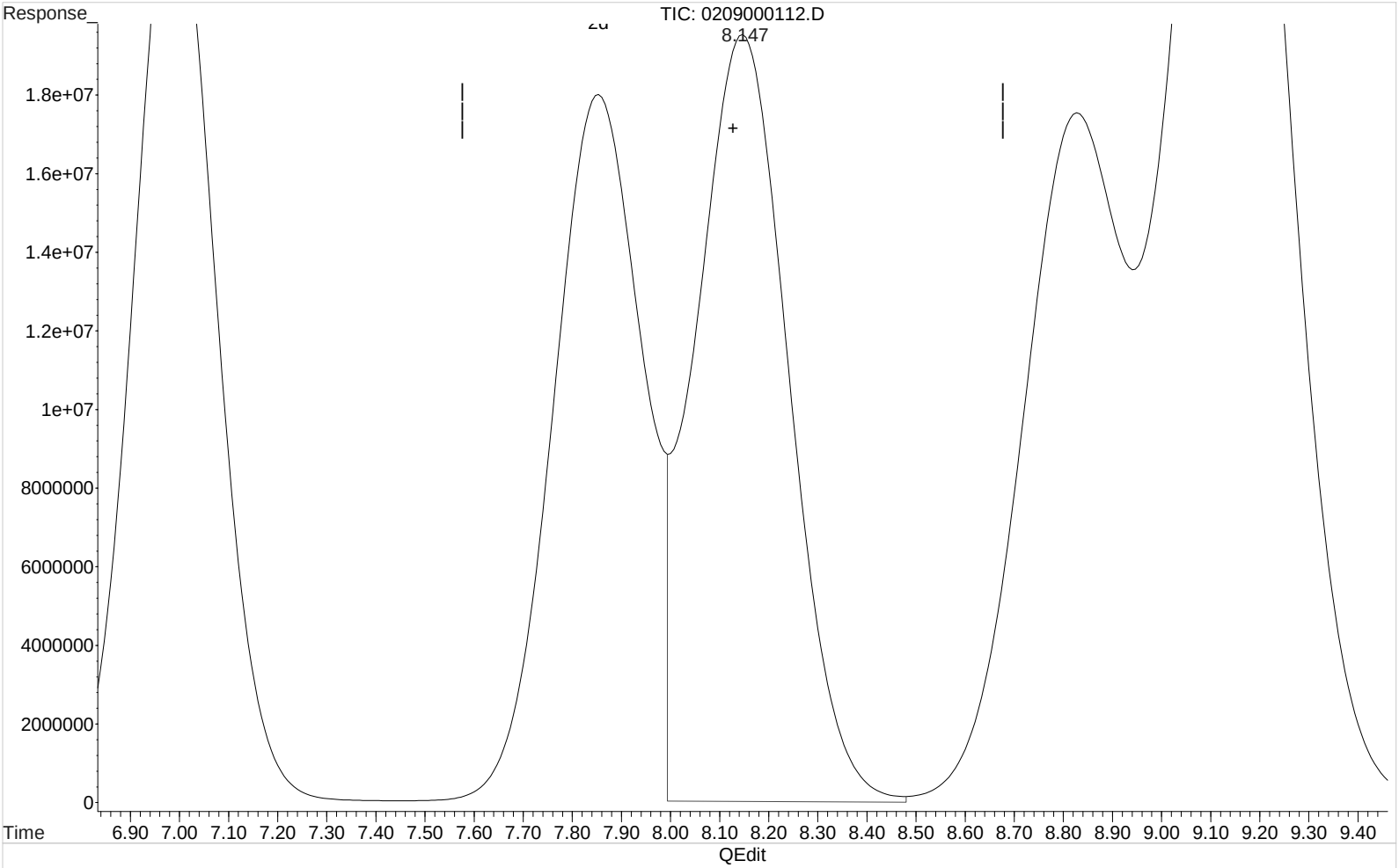
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(11) 1-Chloro-3-Nitrobenzene (S)

8.147min 10038.822 ug/L m

response 257923438

Manual Integration:

After

BLC

02/13/17

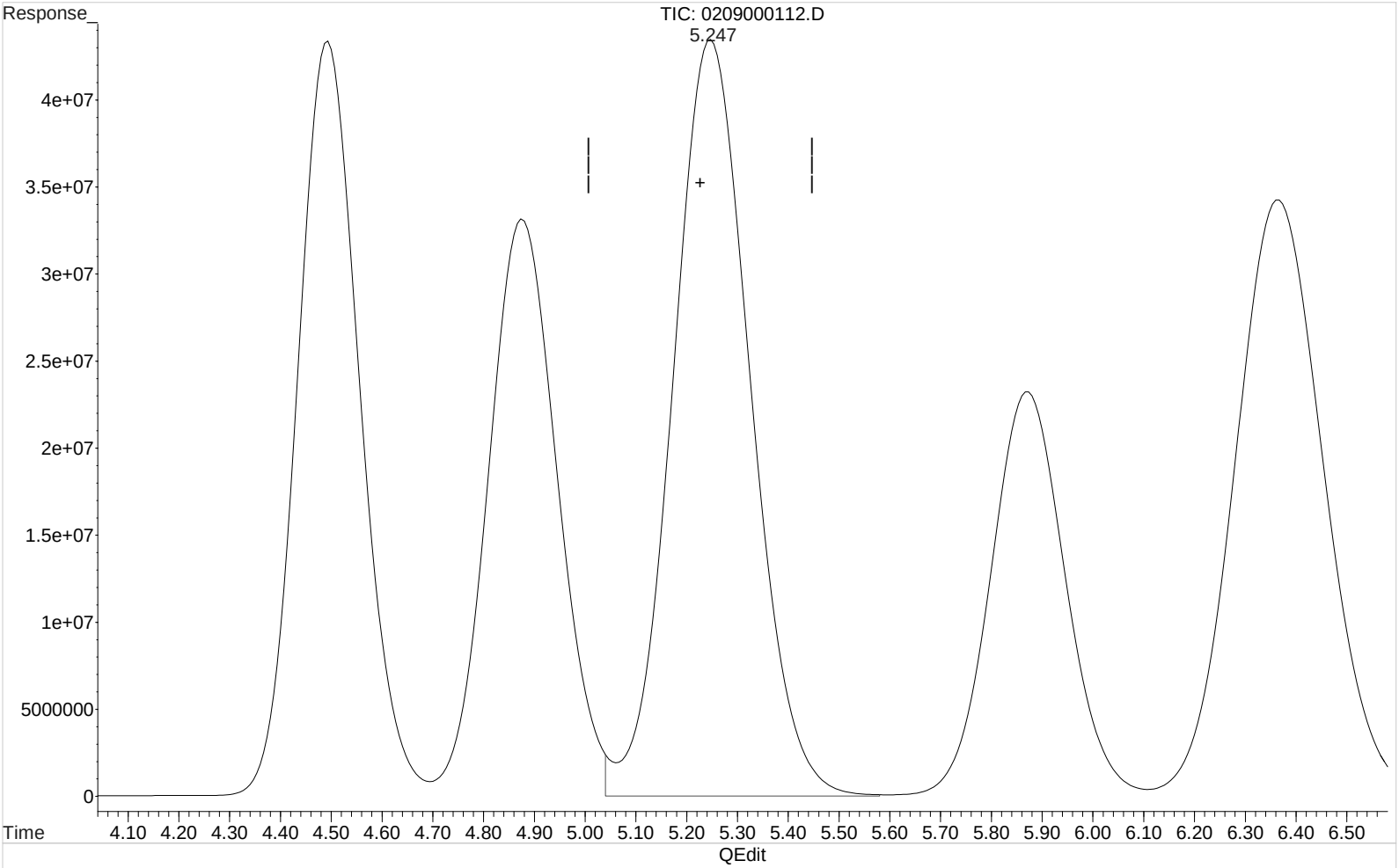
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(4) 3,5-Dinitroaniline (T)

5.247min 10267.538 ug/L

response 463251246

Manual Integration:

Before

02/13/17

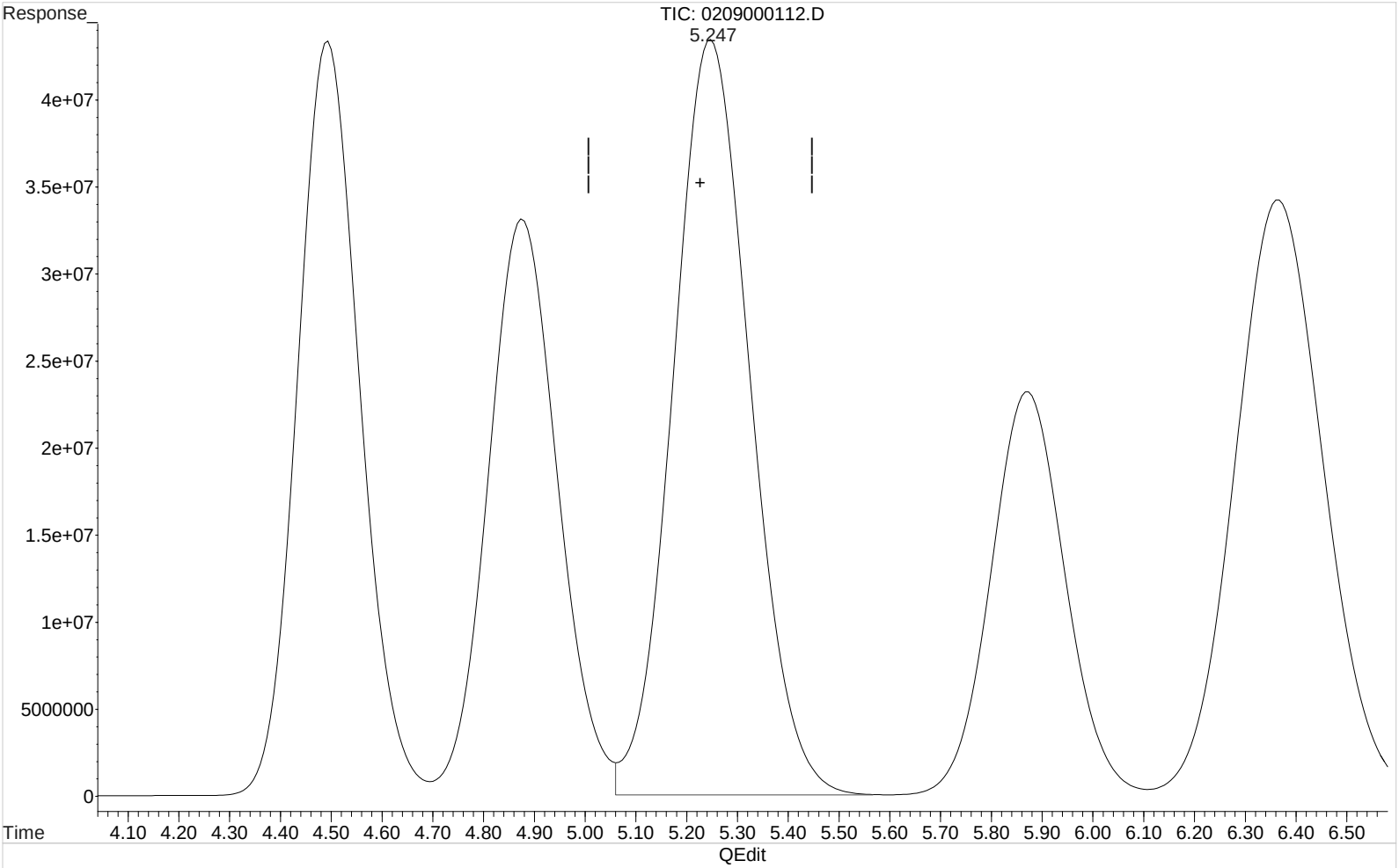
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(4) 3,5-Dinitroaniline (T)

5.247min 10169.818 ug/L m

response 458842323

Manual Integration:

After

BLC

02/13/17

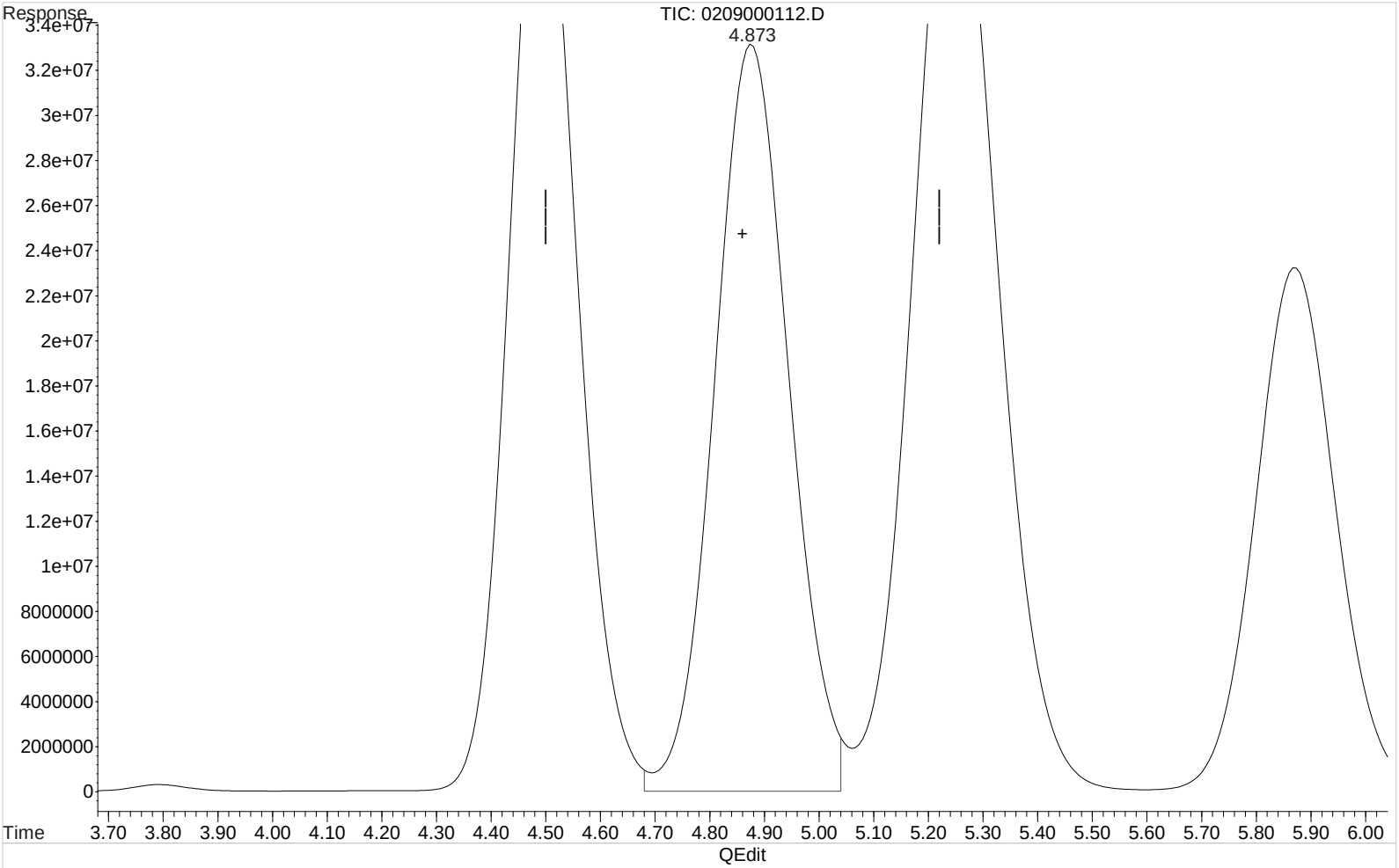
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(5) 4-Amino-2,6-DNT (T)

4.873min 10247.500 ug/L

response 314099468

Manual Integration:

Before

02/13/17

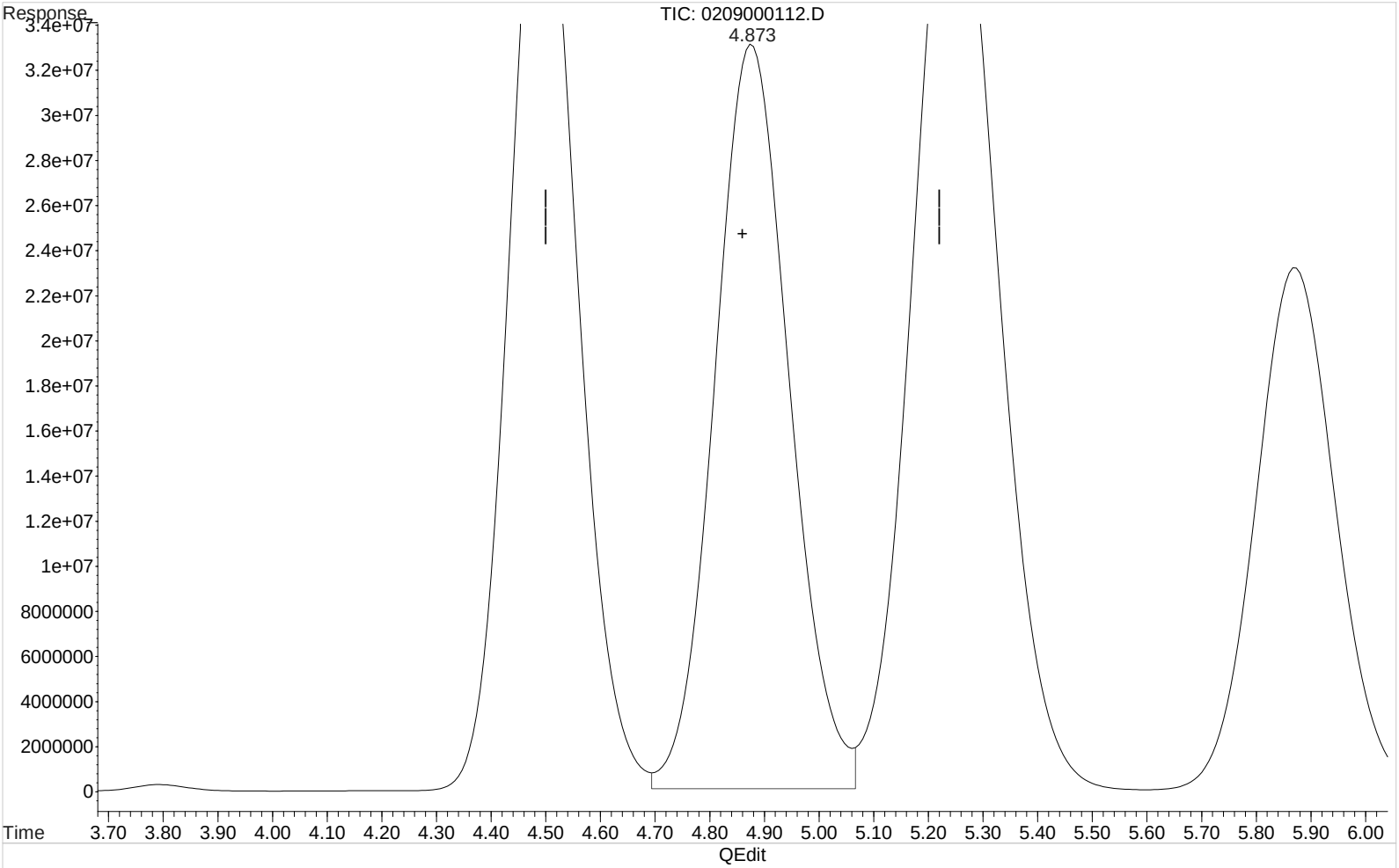
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(5) 4-Amino-2,6-DNT (T)

4.873min 10243.922 ug/L m

response 313989796

Manual Integration:

After

BLC

02/13/17

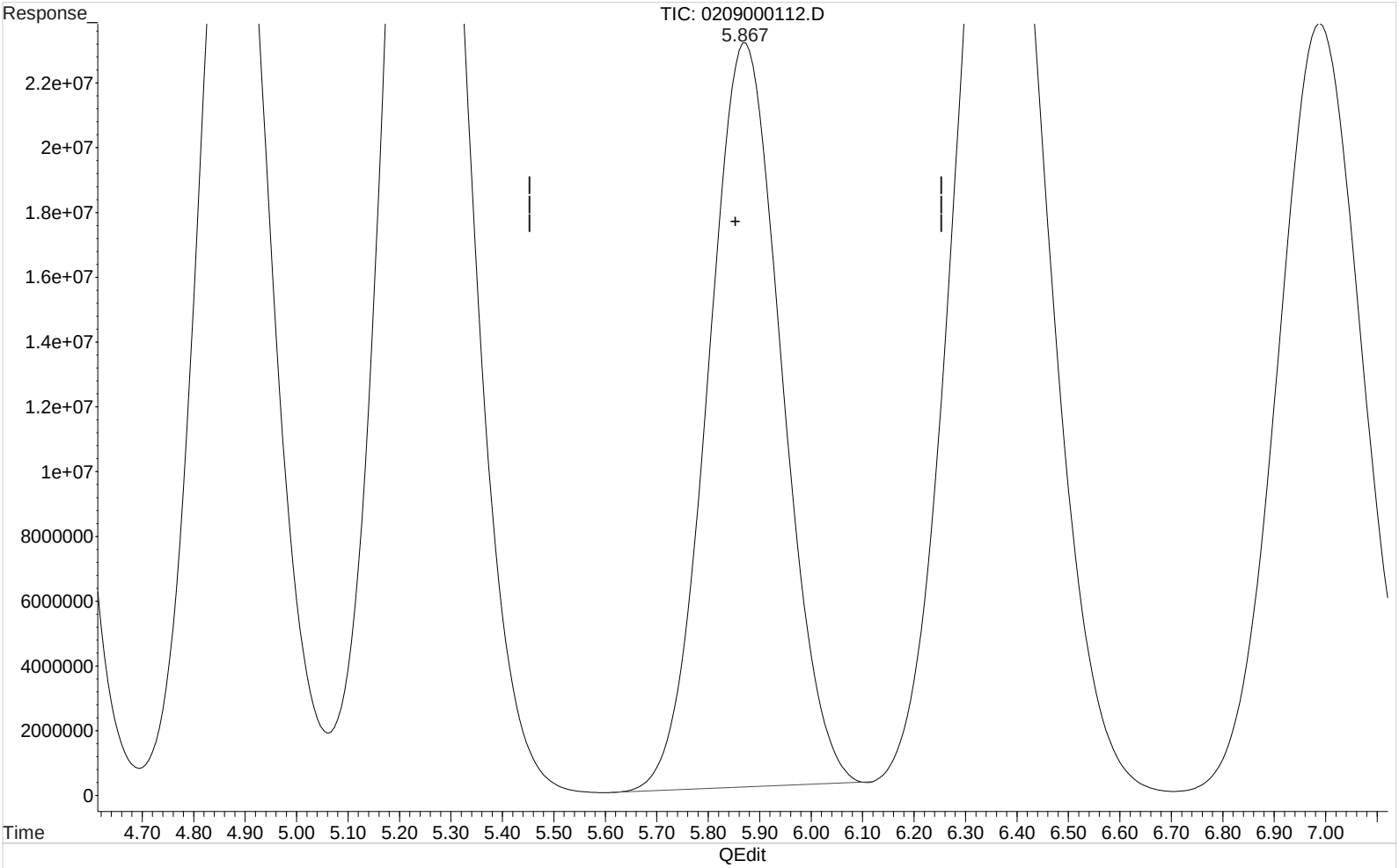
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.867min 9878.222 ug/L

response 230182186

Manual Integration:

Before

02/13/17

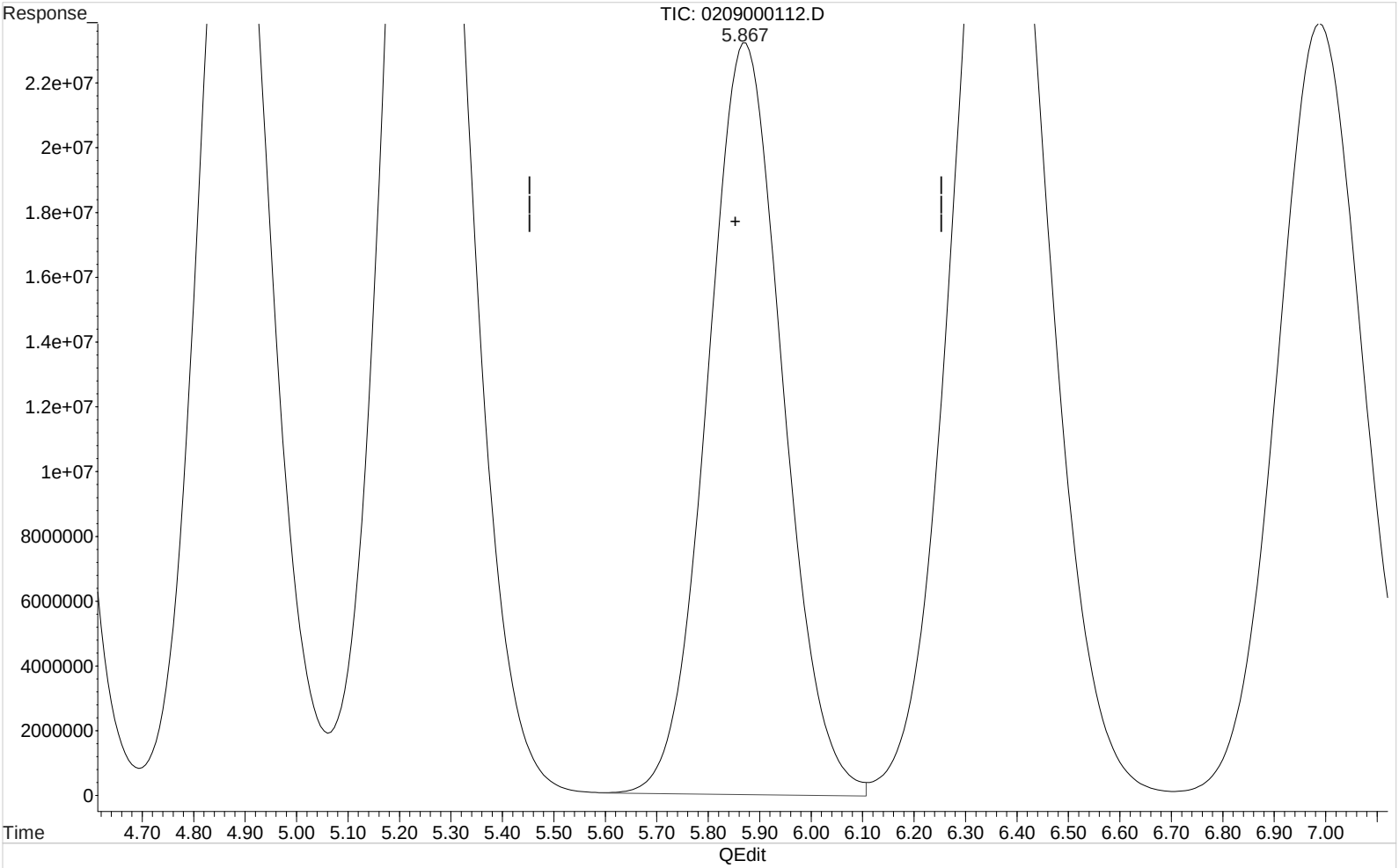
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.867min 10164.931 ug/L m

response 236863088

Manual Integration:

After

BLC

02/13/17

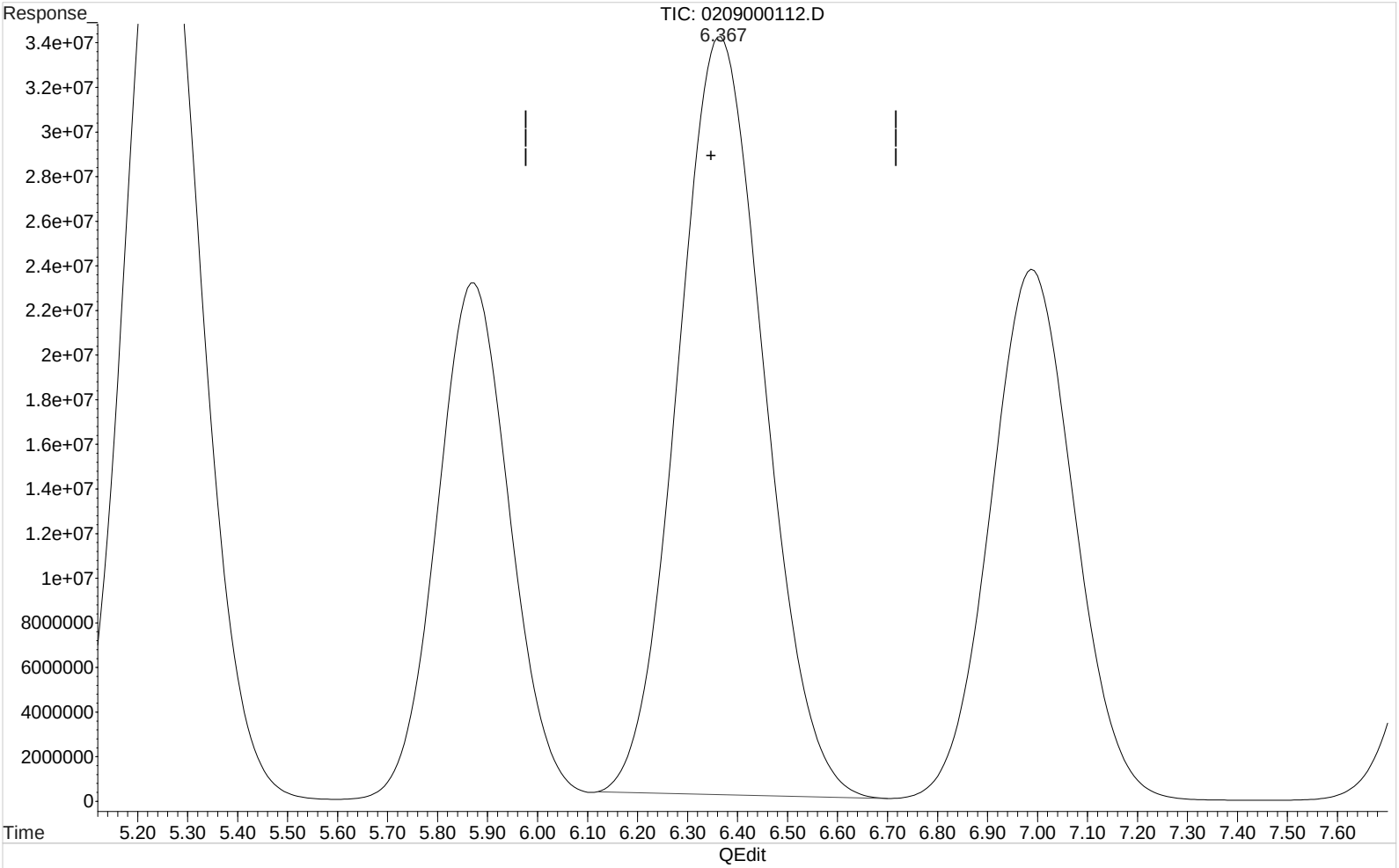
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.367min 10087.717 ug/L

response 409058973

Manual Integration:

Before

02/13/17

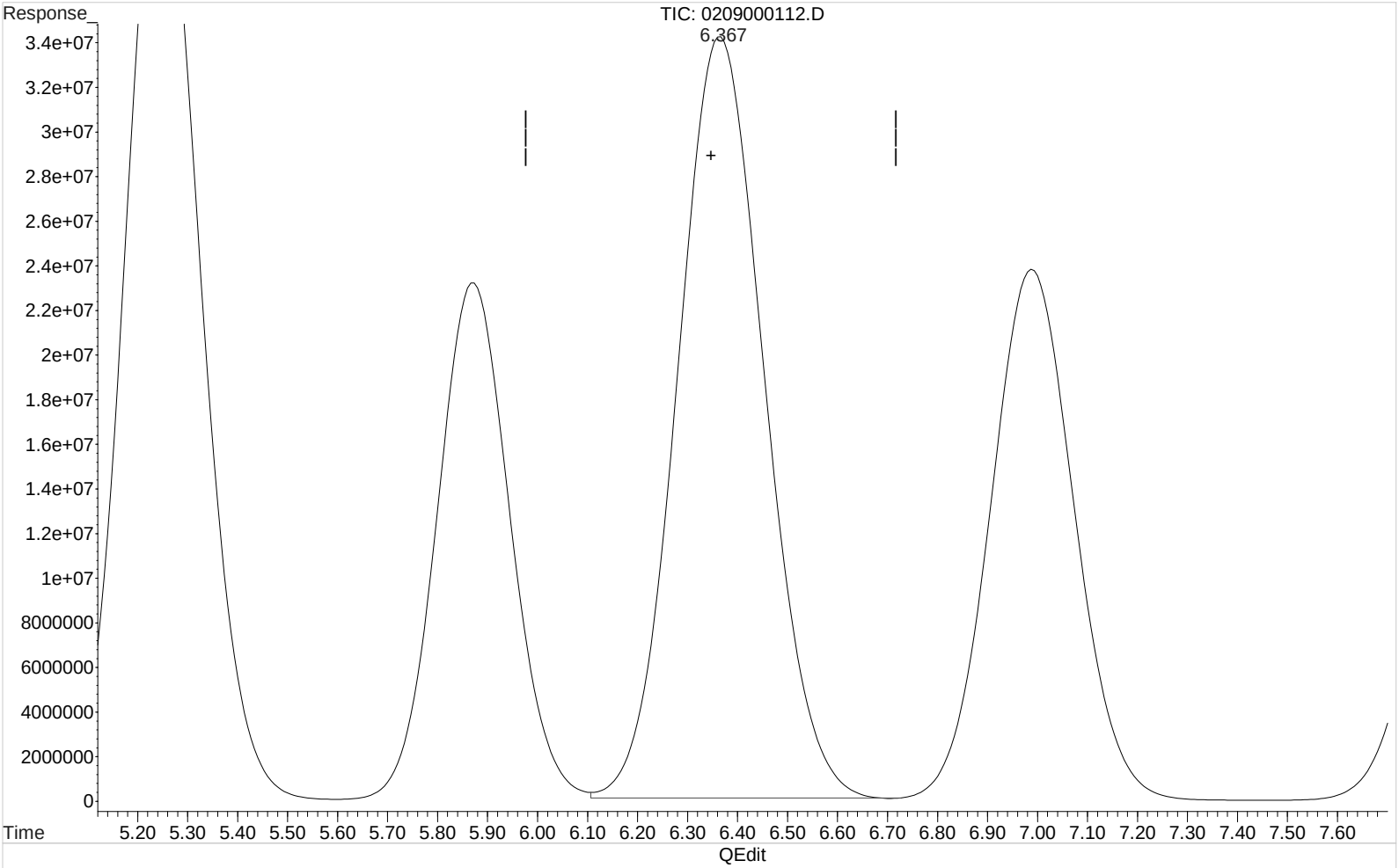
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(7) 2-Amino-4,6-DNT (T)

6.367min 10205.169 ug/L m

response 413821685

Manual Integration:

After

BLC

02/13/17

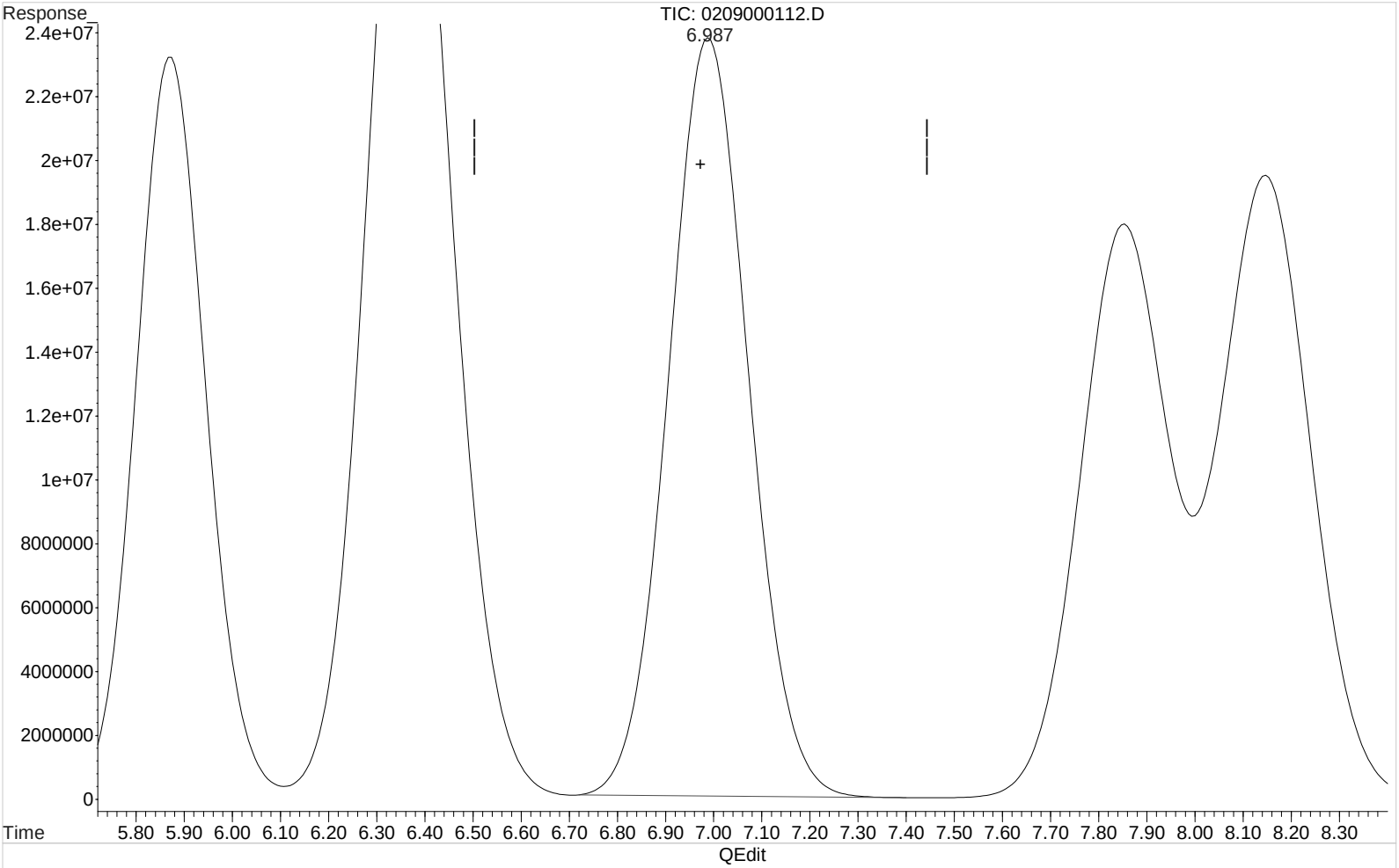
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(8) 3-NT (T)

6.987min 10153.407 ug/L

response 276058564

Manual Integration:

Before

02/13/17

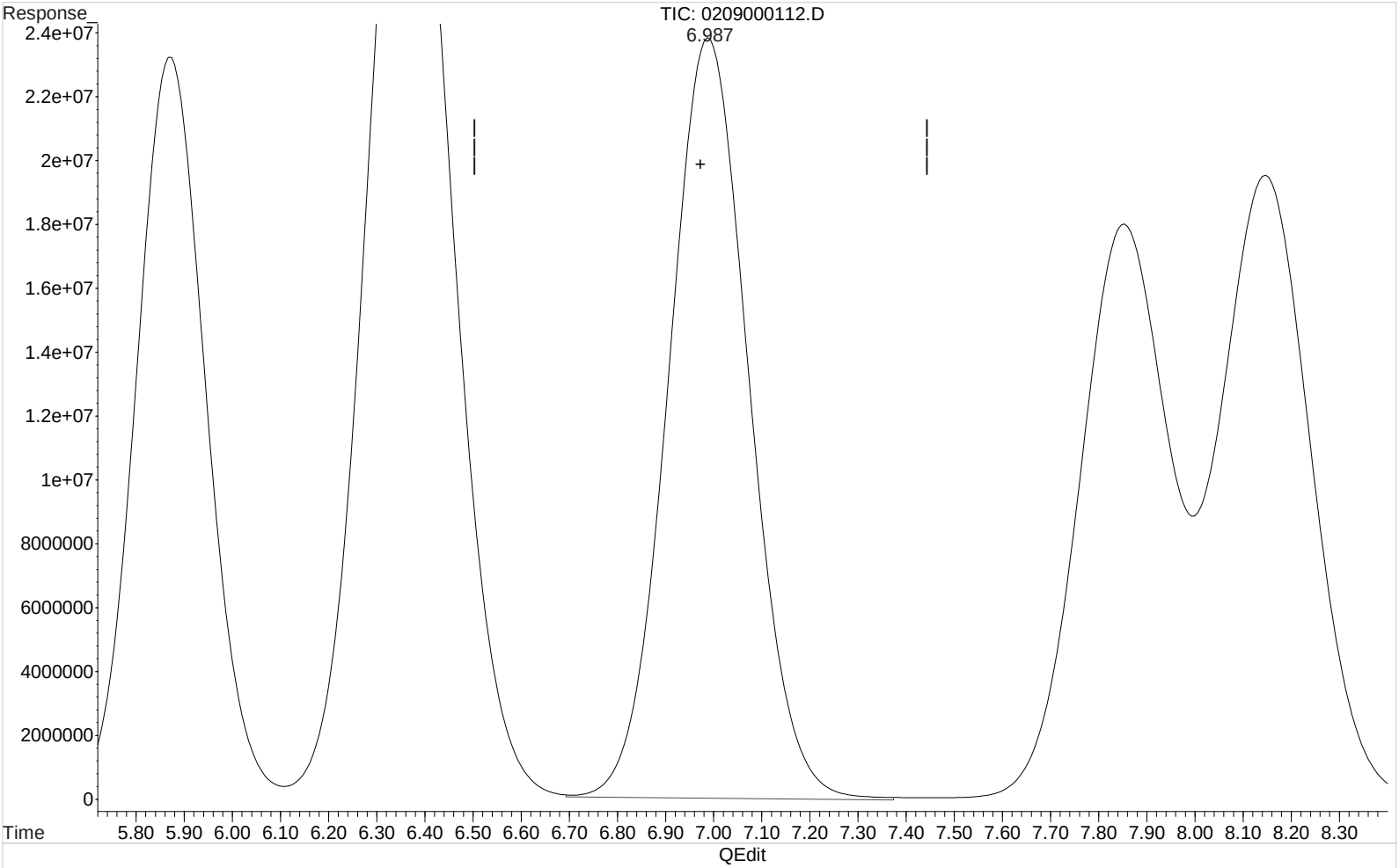
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(8) 3-NT (T)

6.987min 10264.235 ug/L m

response 279071838

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:12:35 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds							
11)	S	1-Chloro-3-Nitrobenzene	8.127	513851991	NoCal	ug/L	
Target Compounds							
1)	T	HMX	2.553f	302646741	NoCal	ug/L	m
2)	T	RDX	2.800f	346502613	NoCal	ug/L	m
3)	T	Nitrobenzene	4.480	723540605	NoCal	ug/L	
4)	T	3,5-Dinitroaniline	5.227	902360936	NoCal	ug/L	
5)	T	4-Amino-2,6-DNT	4.860	613026515	NoCal	ug/L	
6)	T	2-NT	5.853	466039716	NoCal	ug/L	
7)	T	2-Amino-4,6-DNT	6.347	811004098	NoCal	ug/L	m
8)	T	3-NT	6.973	543775210	NoCal	ug/L	m
9)	T	1,3-DNB	9.120	1077373089	NoCal	ug/L	m
10)	T	4-NT	7.833	451767608	NoCal	ug/L	
12)	T	2,6-DNT	8.807	479930654	NoCal	ug/L	m
13)	T	2,4-DNT	14.800	992289543	NoCal	ug/L	
14)	T	Tetryl	12.987	592011460	NoCal	ug/L	
15)	T	1,3,5-TNB	19.800f	805109064	NoCal	ug/L	m
16)	T	2,4,6-TNT	20.780f	752693580	NoCal	ug/L	

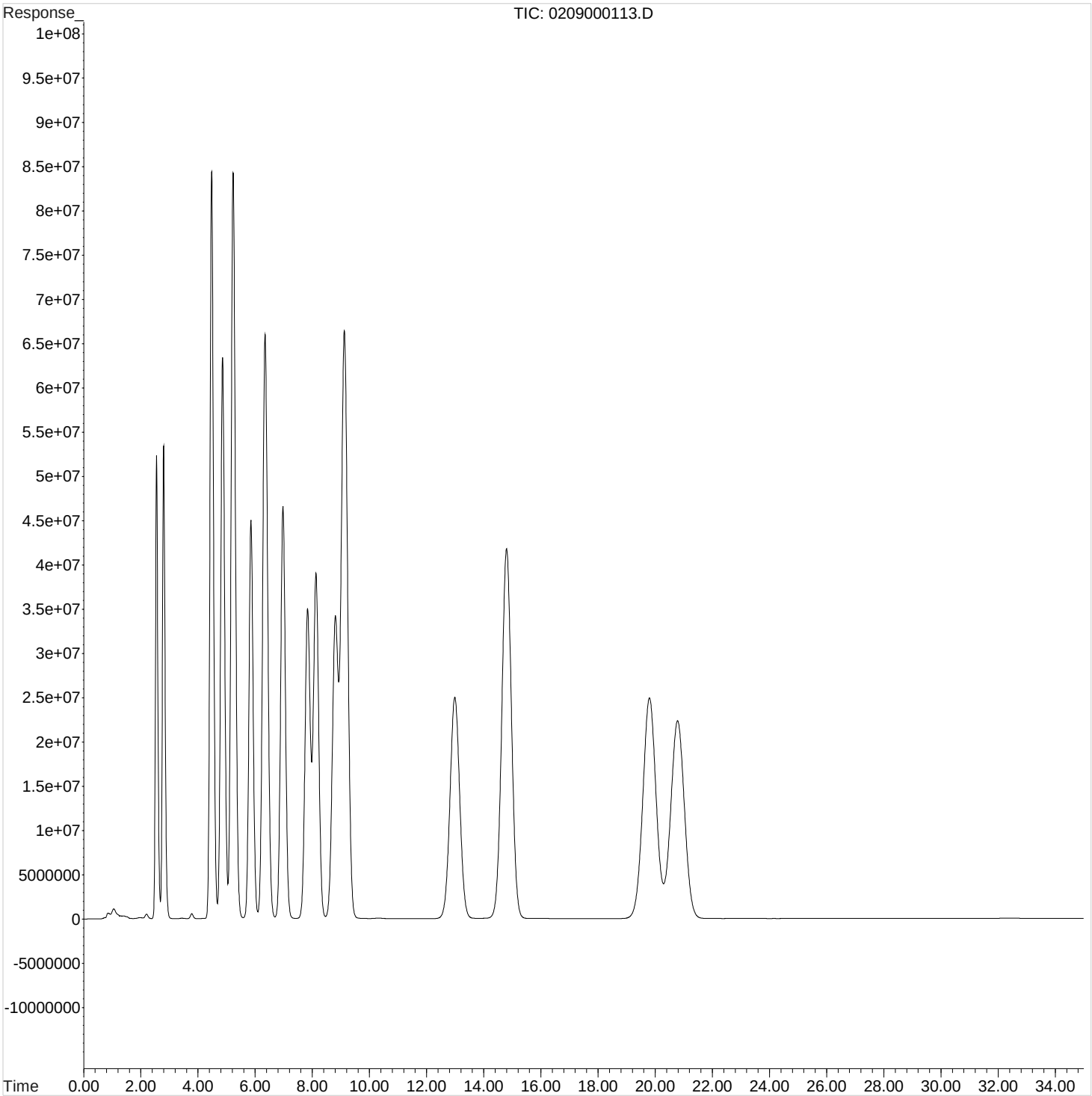
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:12:35 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

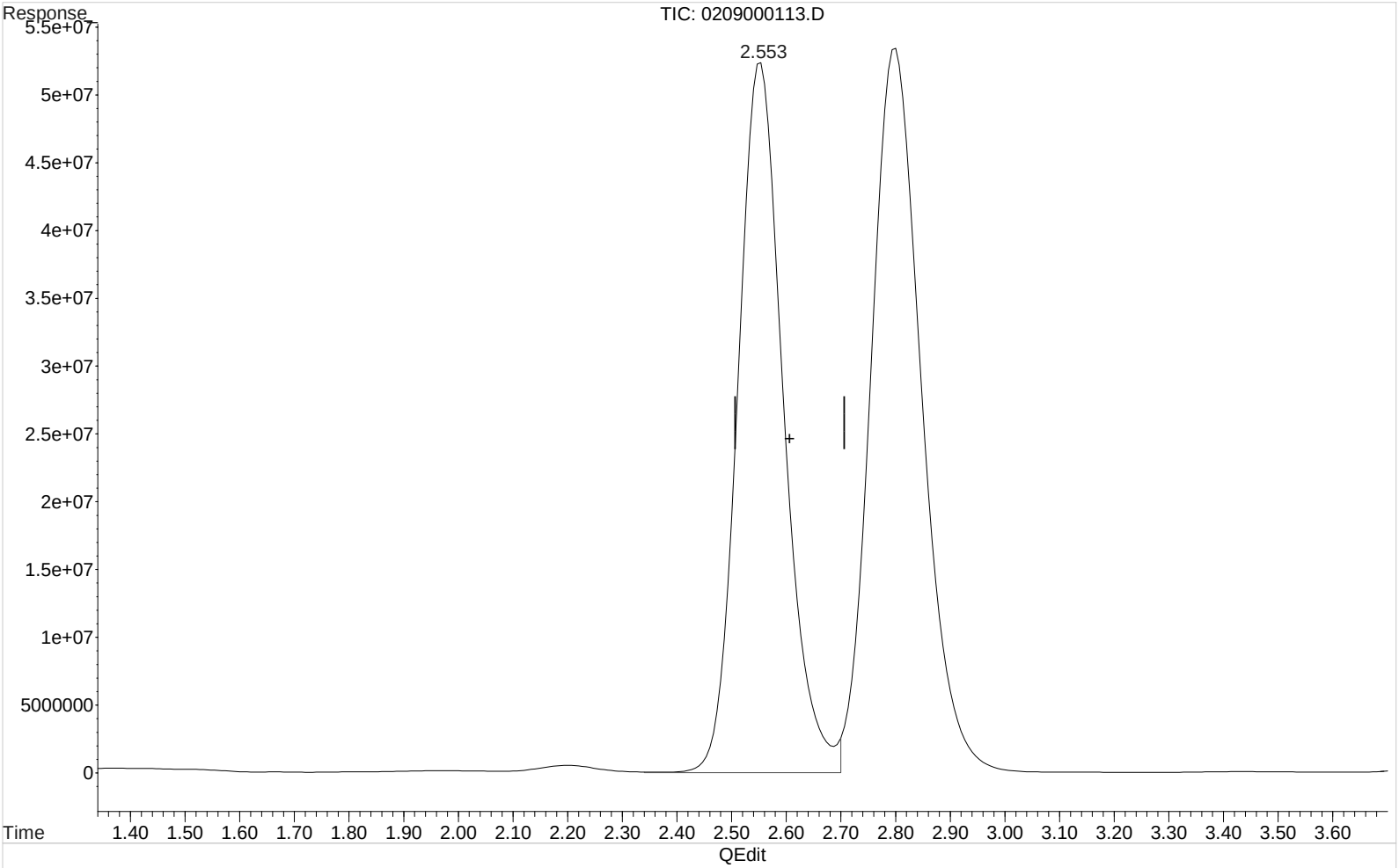


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:19 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.553min 0.000 ug/L

response 305316401

Manual Integration:

Before

02/13/17

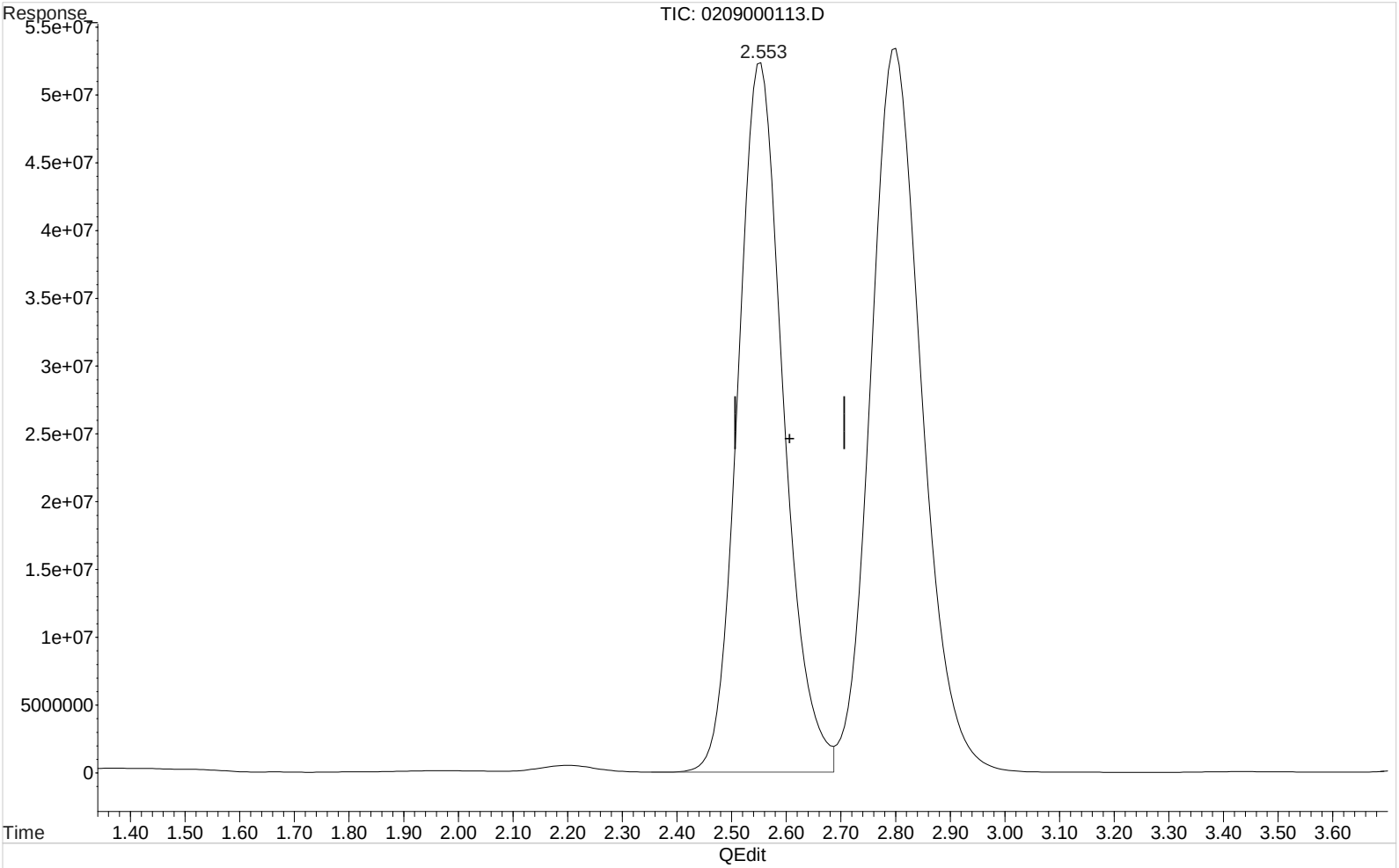
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:19 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.553min 0.000 ug/L m

response 302646741

Manual Integration:

After

BLC

02/13/17

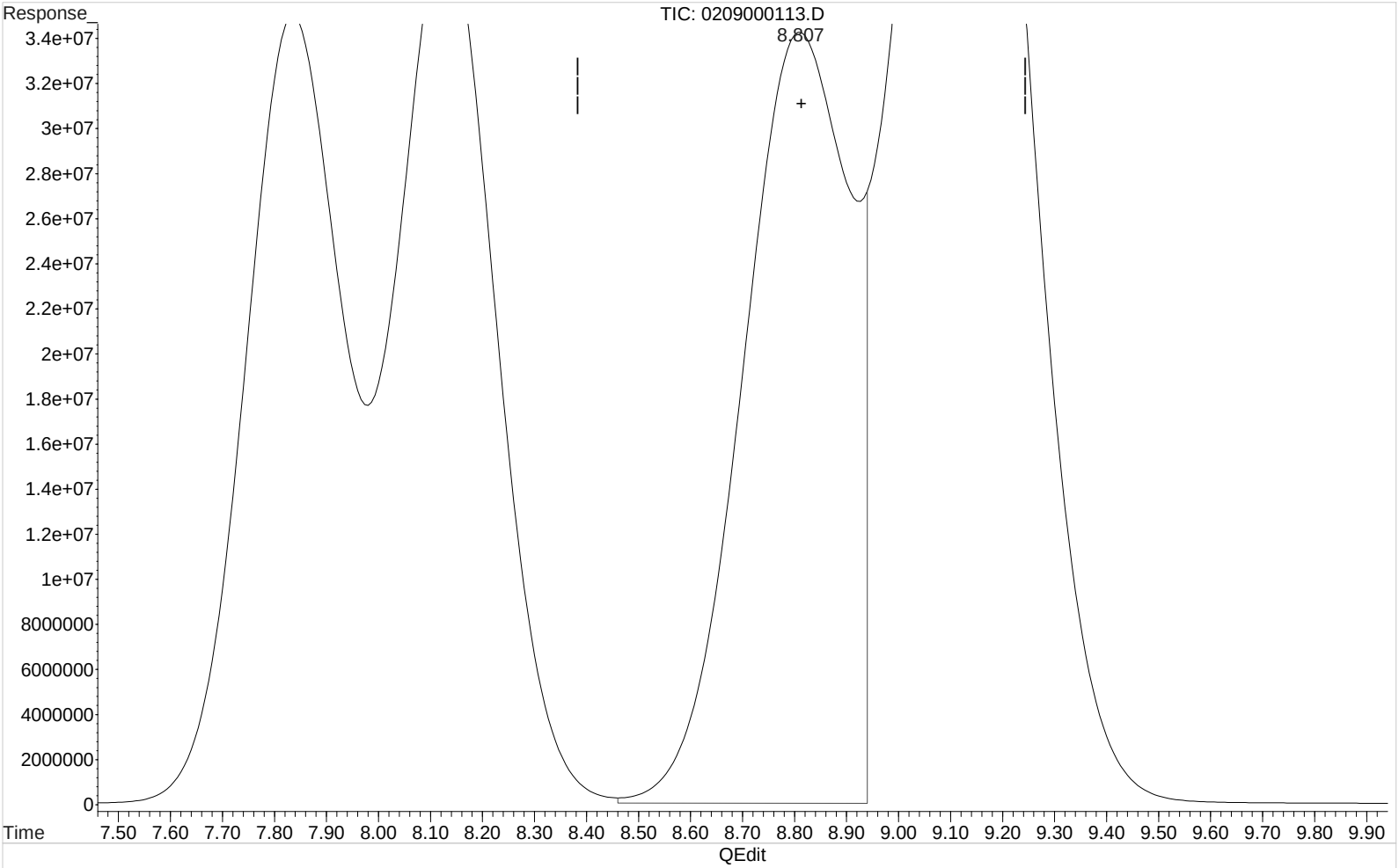
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(12) 2,6-DNT (T)

8.807min 0.000 ug/L

response 500177008

Manual Integration:

Before

02/13/17

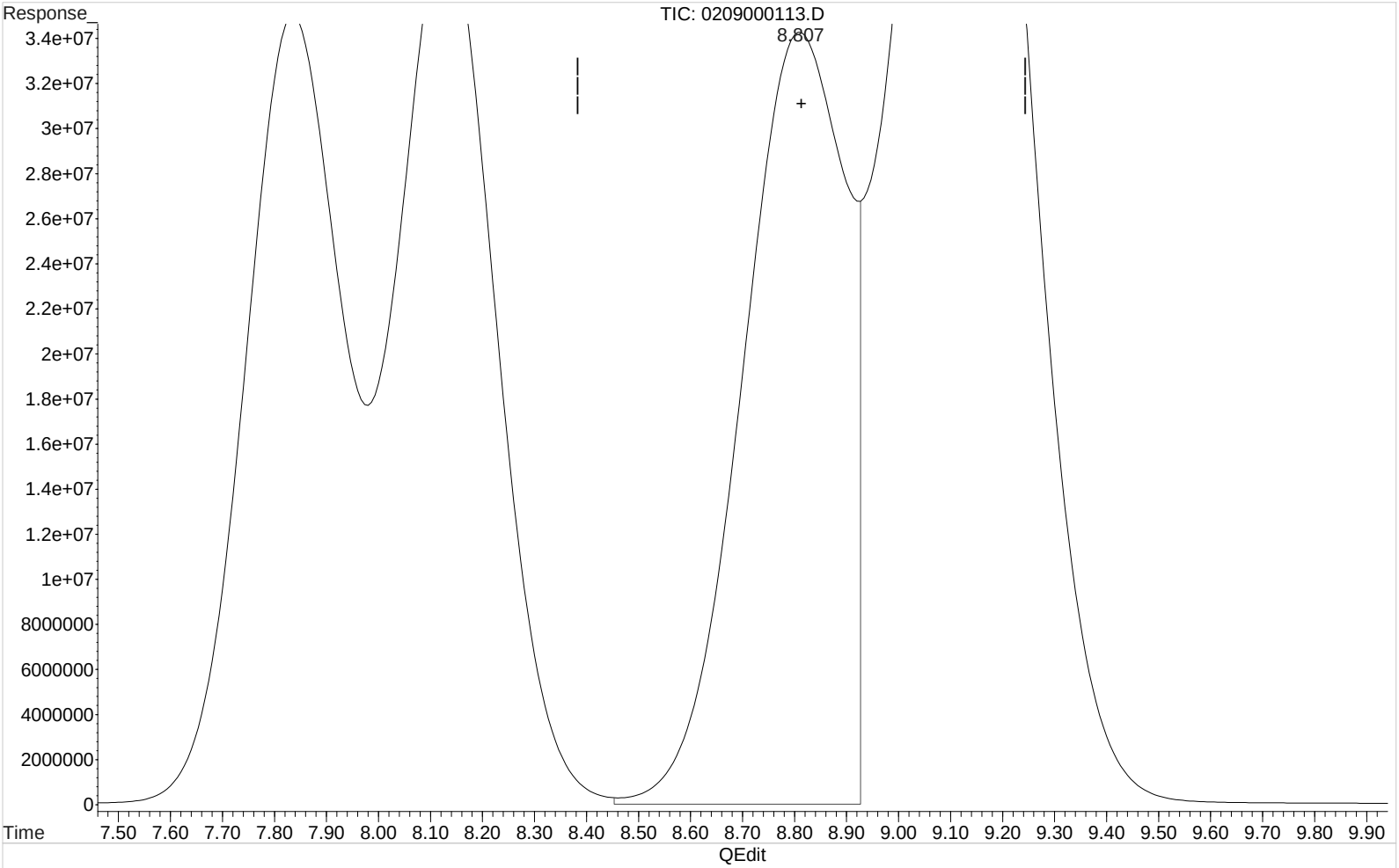
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(12) 2,6-DNT (T)

8.807min 0.000 ug/L m

response 479930654

Manual Integration:

After

BLC

02/13/17

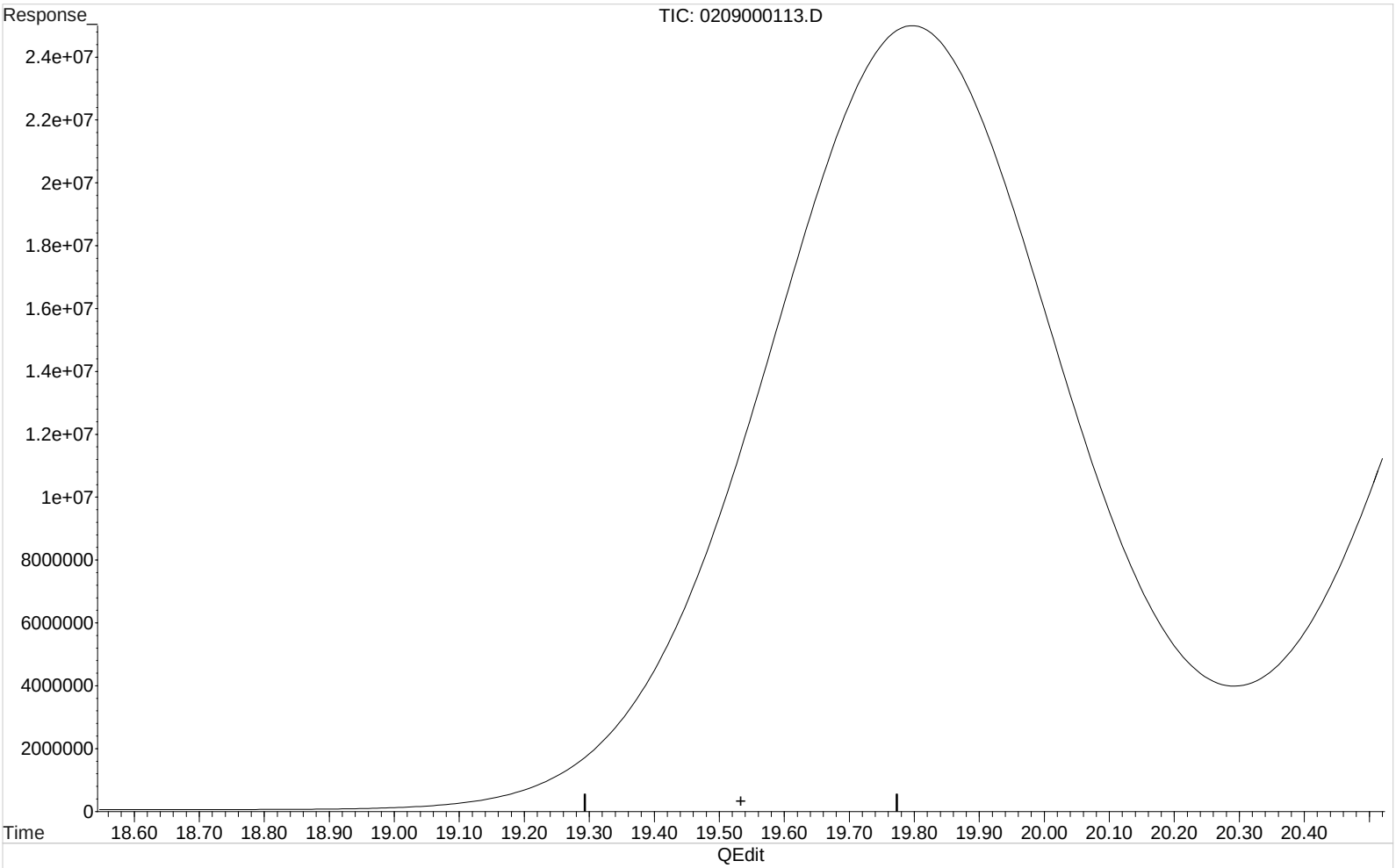
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(15) 1,3,5-TNB (T)

19.533min 0.000 ug/L

response 0

Manual Integration:

Before

02/13/17

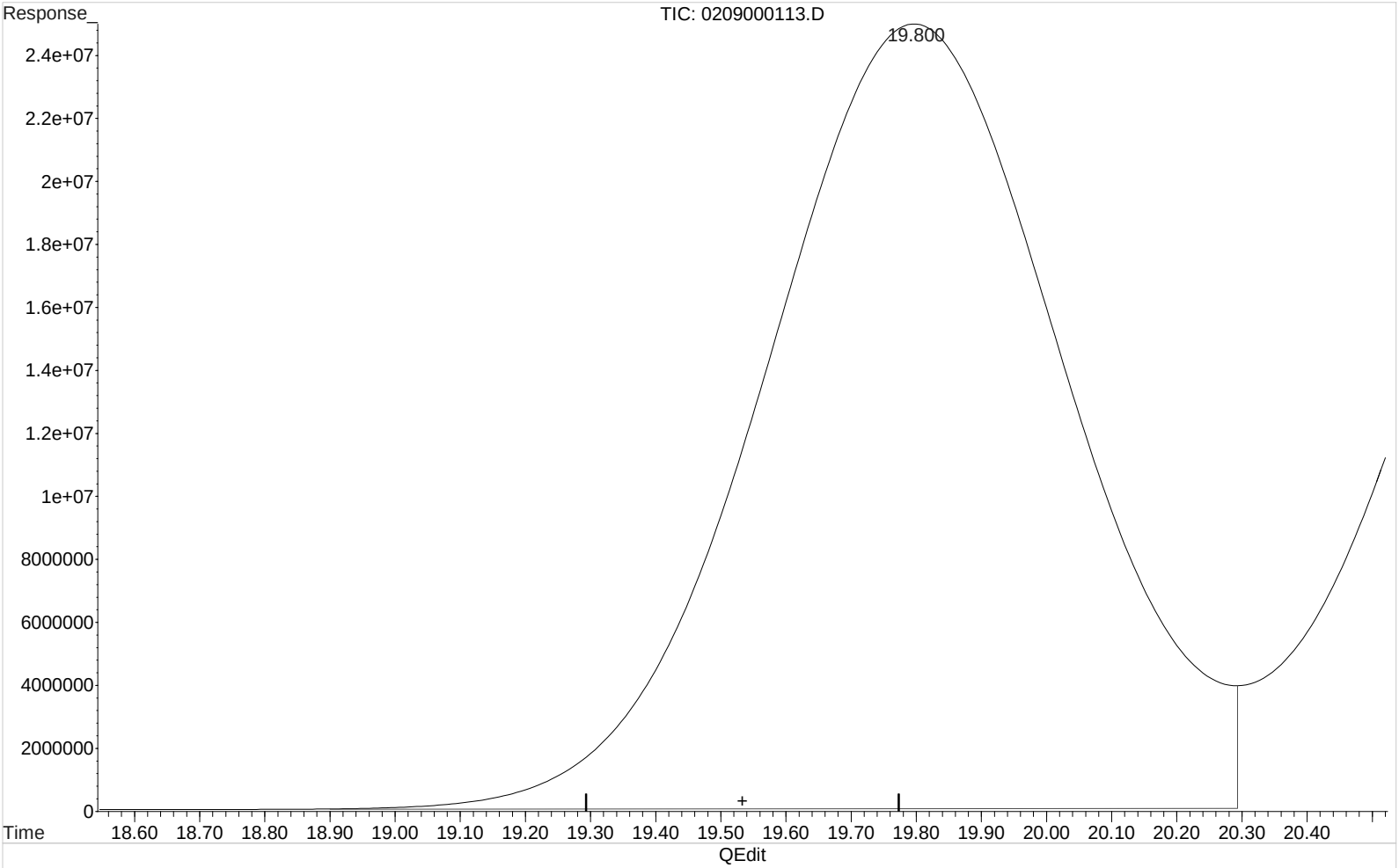
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(15) 1,3,5-TNB (T)

19.800min 0.000 ug/L m

response 805109064

Manual Integration:

After

BLC

02/13/17

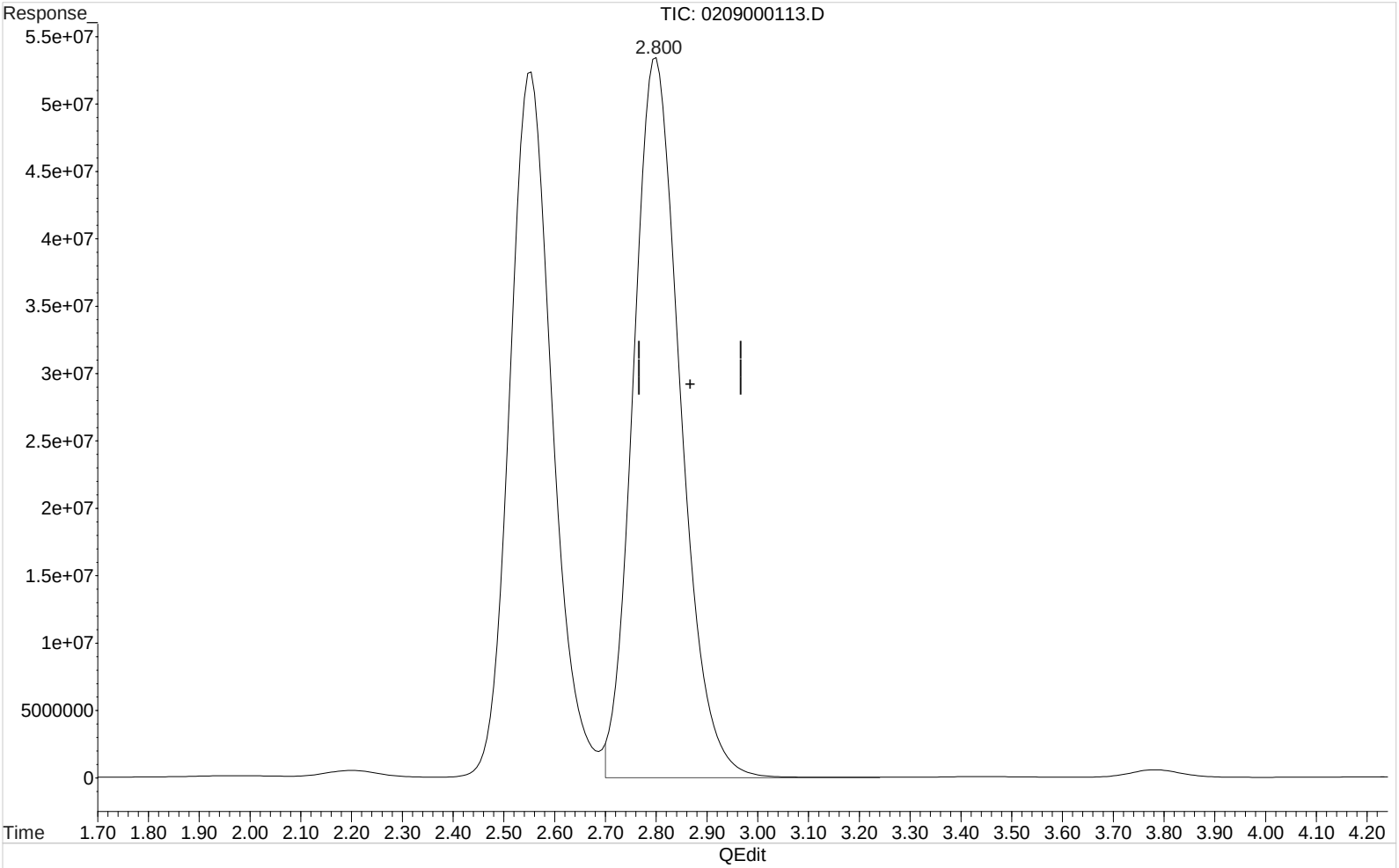
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:19 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(2) RDX (T)

2.800min 0.000 ug/L

response 343726550

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

(b) (6)

02/13/17

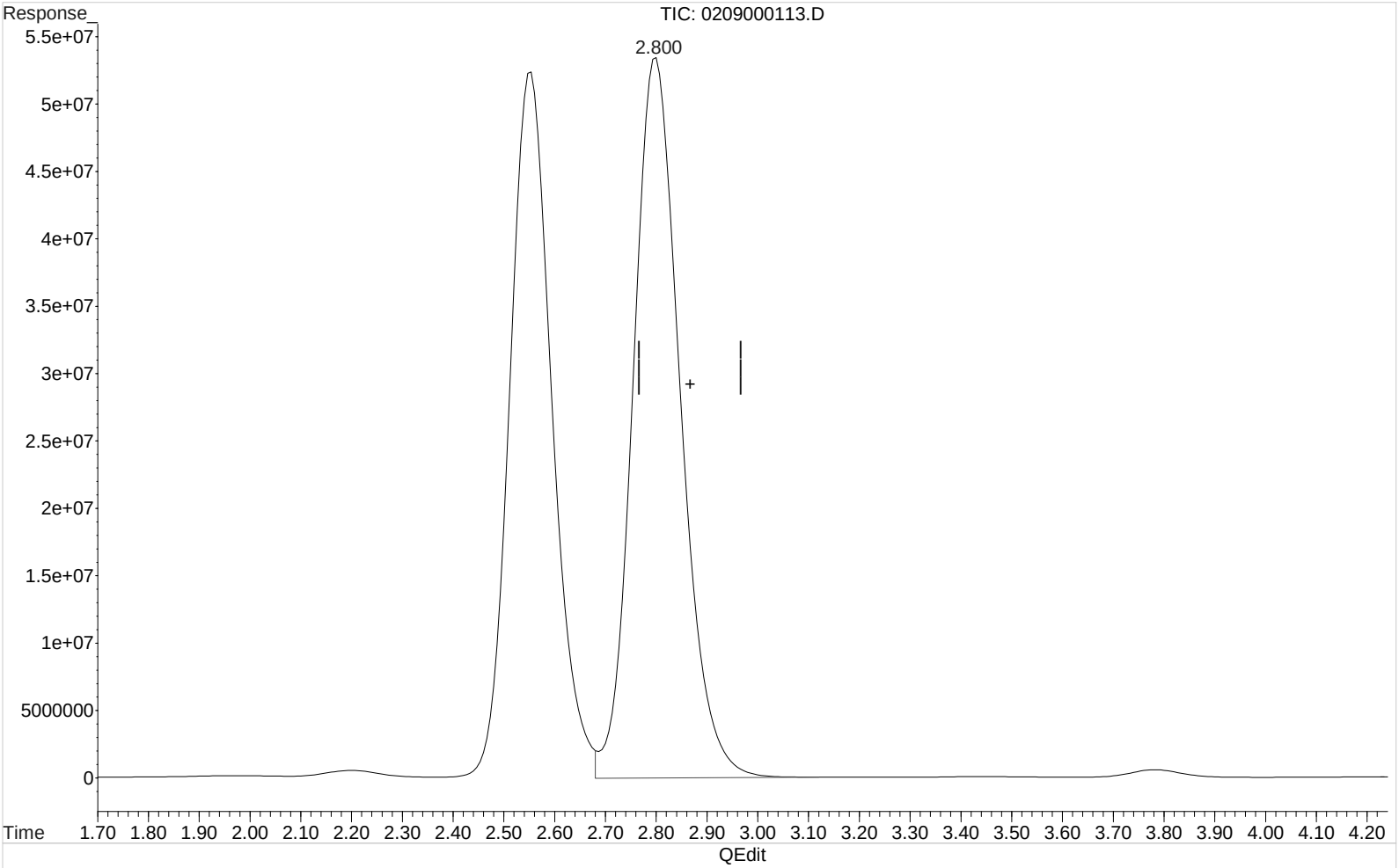
02/17/17

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:19 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(2) RDX (T)

2.800min 0.000 ug/L m

response 346502613

Manual Integration:

After

BLC

02/13/17

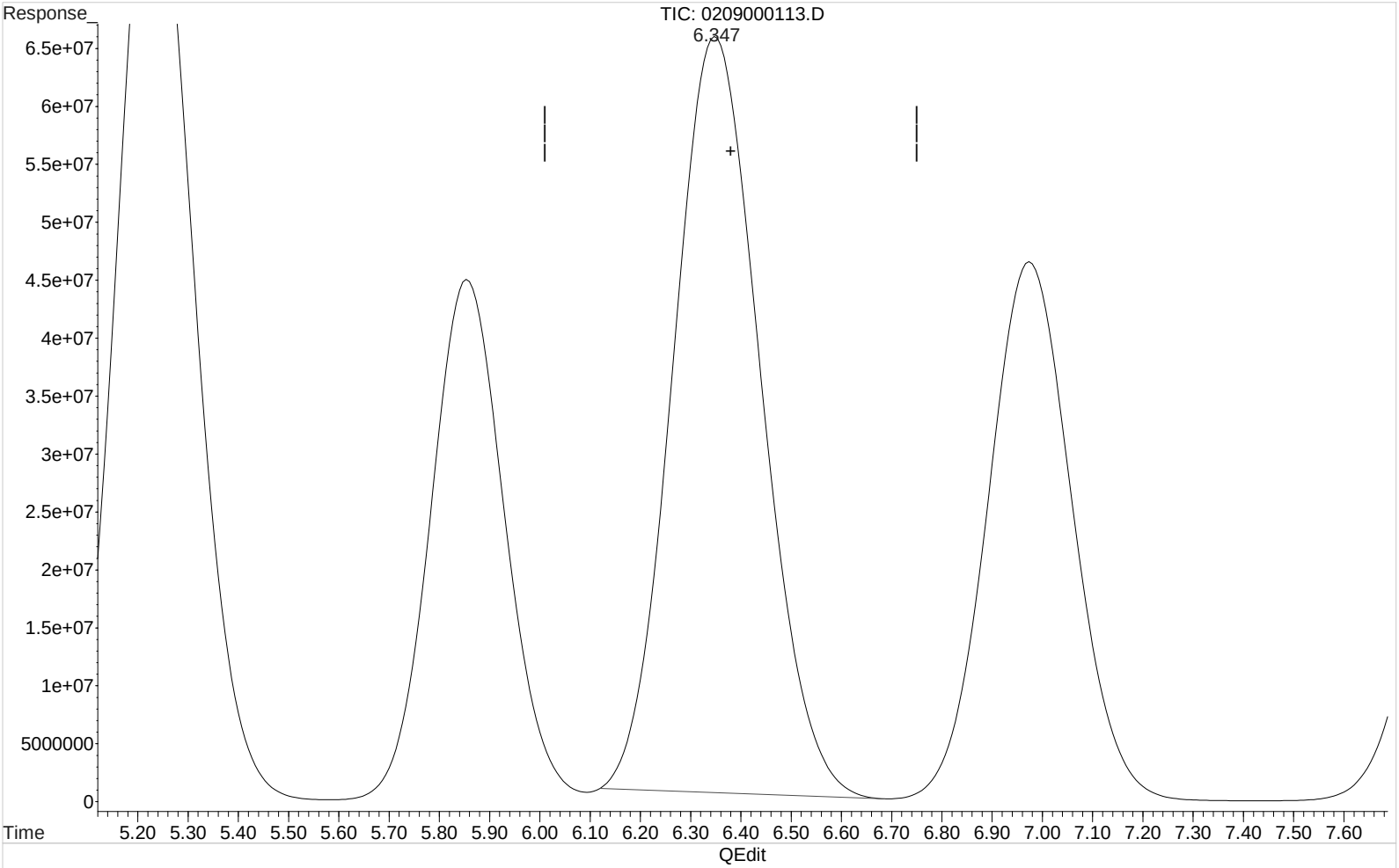
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.347min 0.000 ug/L

response 793832791

Manual Integration:

Before

02/13/17

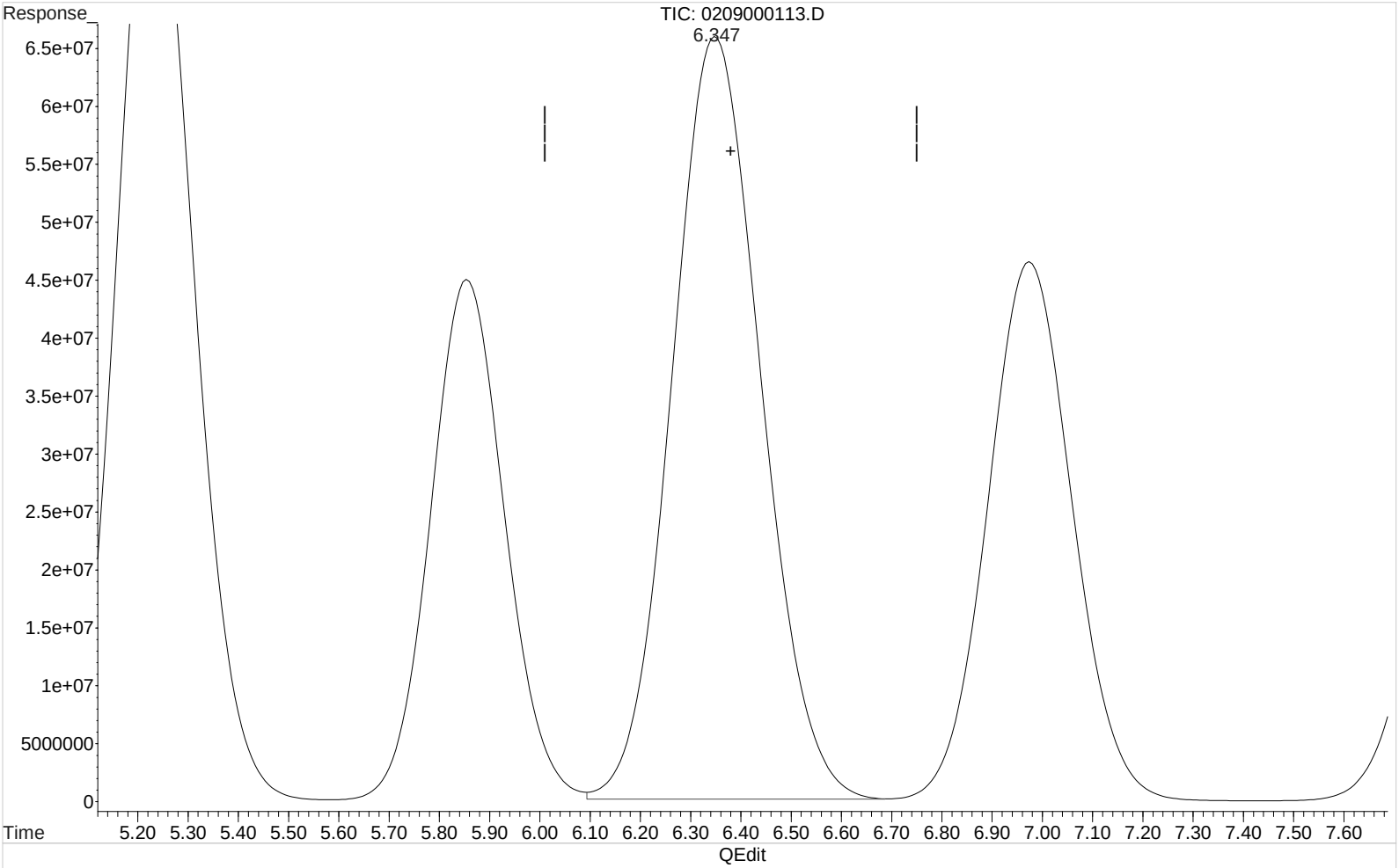
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.347min 0.000 ug/L m

response 811004098

Manual Integration:

After

BLC

02/13/17

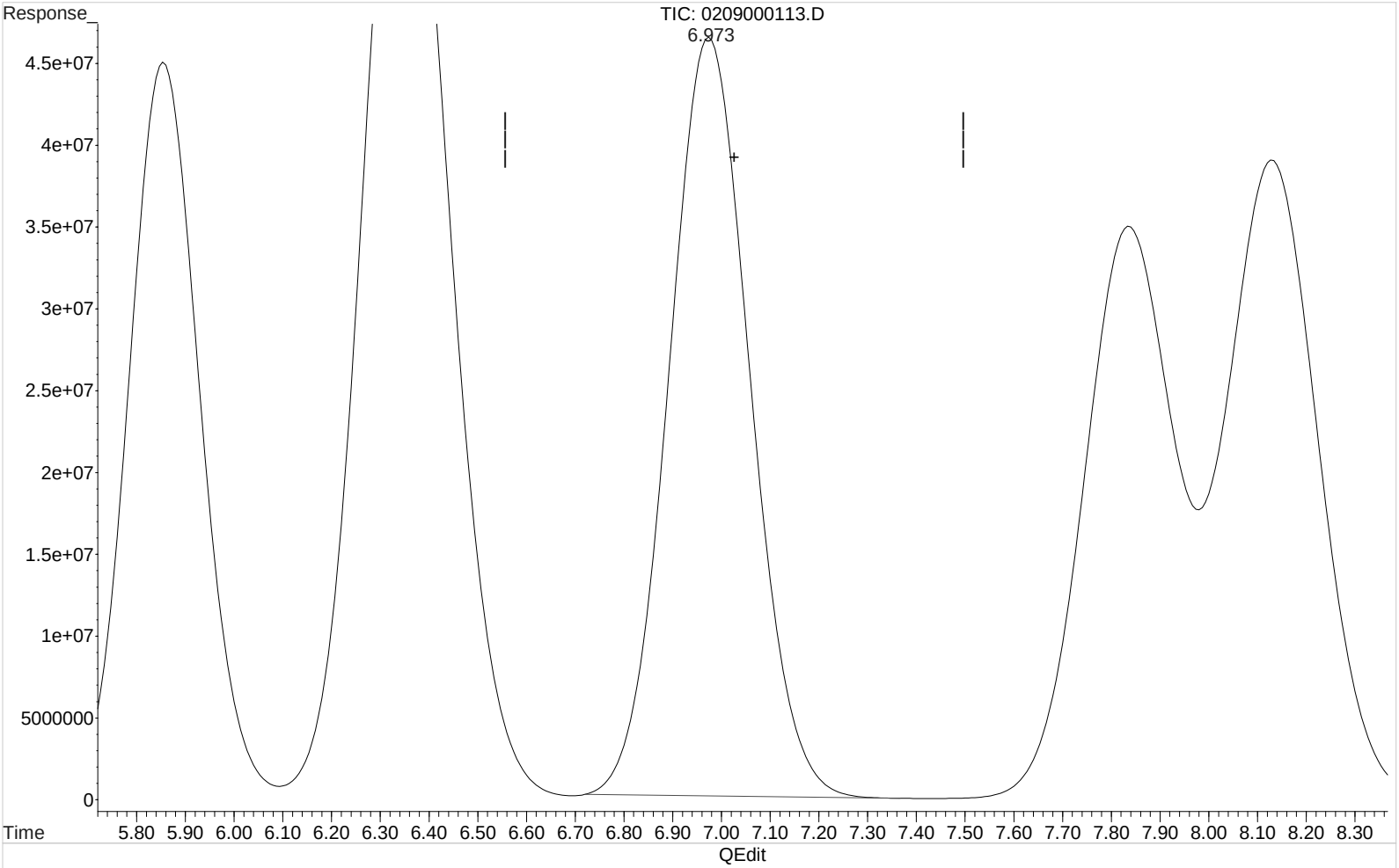
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(8) 3-NT (T)

6.973min 0.000 ug/L

response 539697946

Manual Integration:

Before

02/13/17

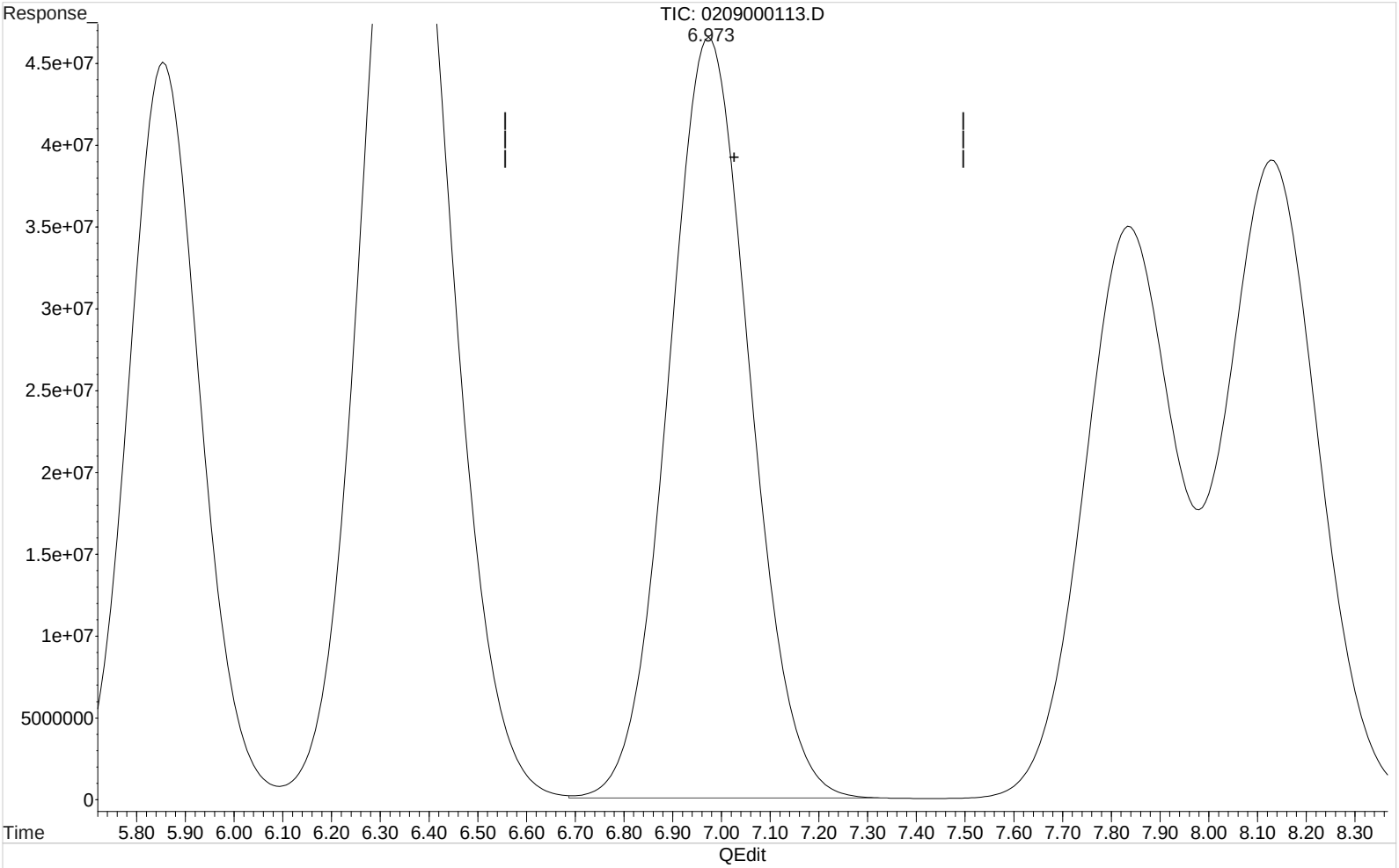
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(8) 3-NT (T)

6.973min 0.000 ug/L m

response 543775210

Manual Integration:

After

BLC

02/13/17

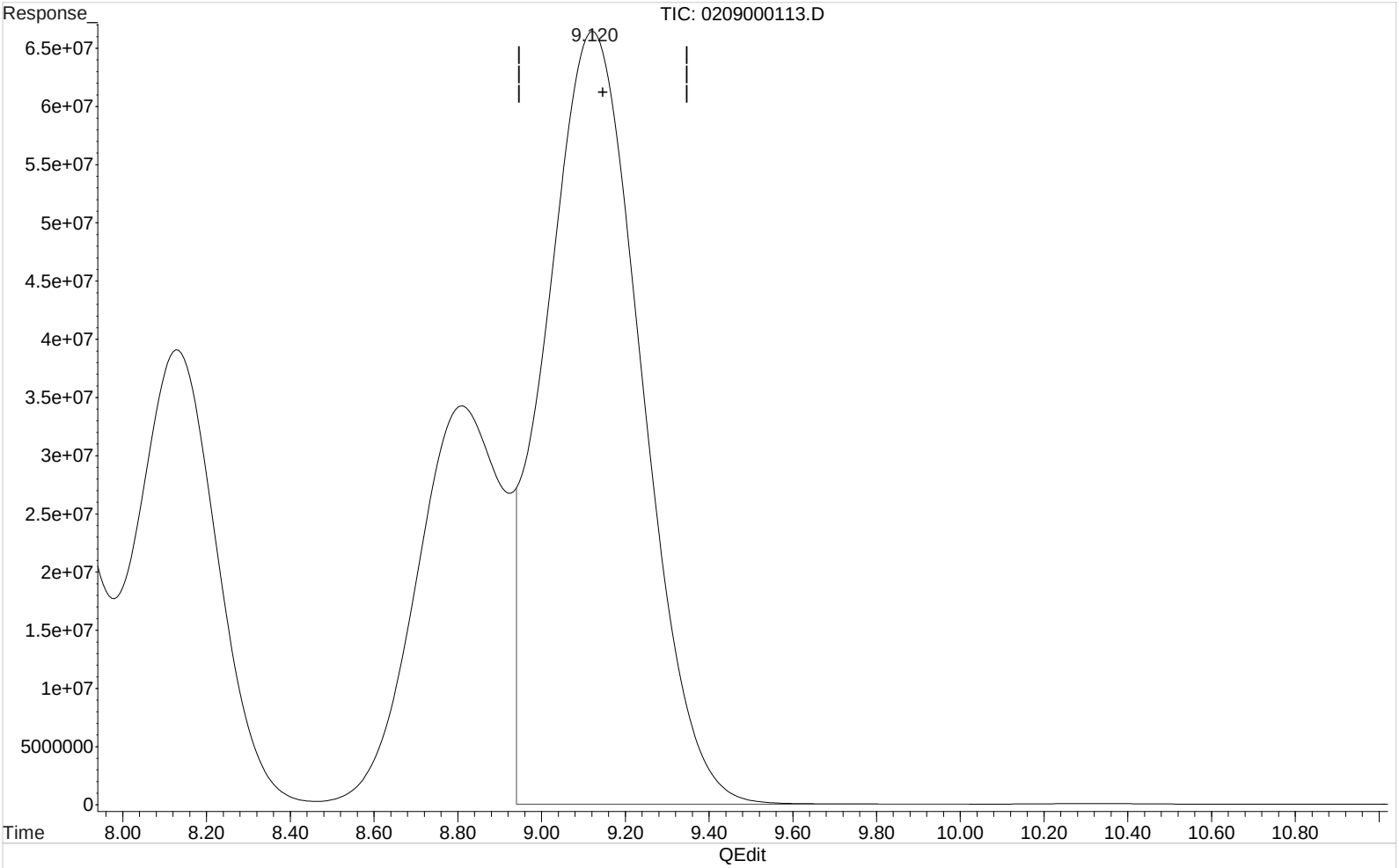
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(9) 1,3-DNB (T)

9.120min 0.000 ug/L

response 1060177232

Manual Integration:

Before

02/13/17

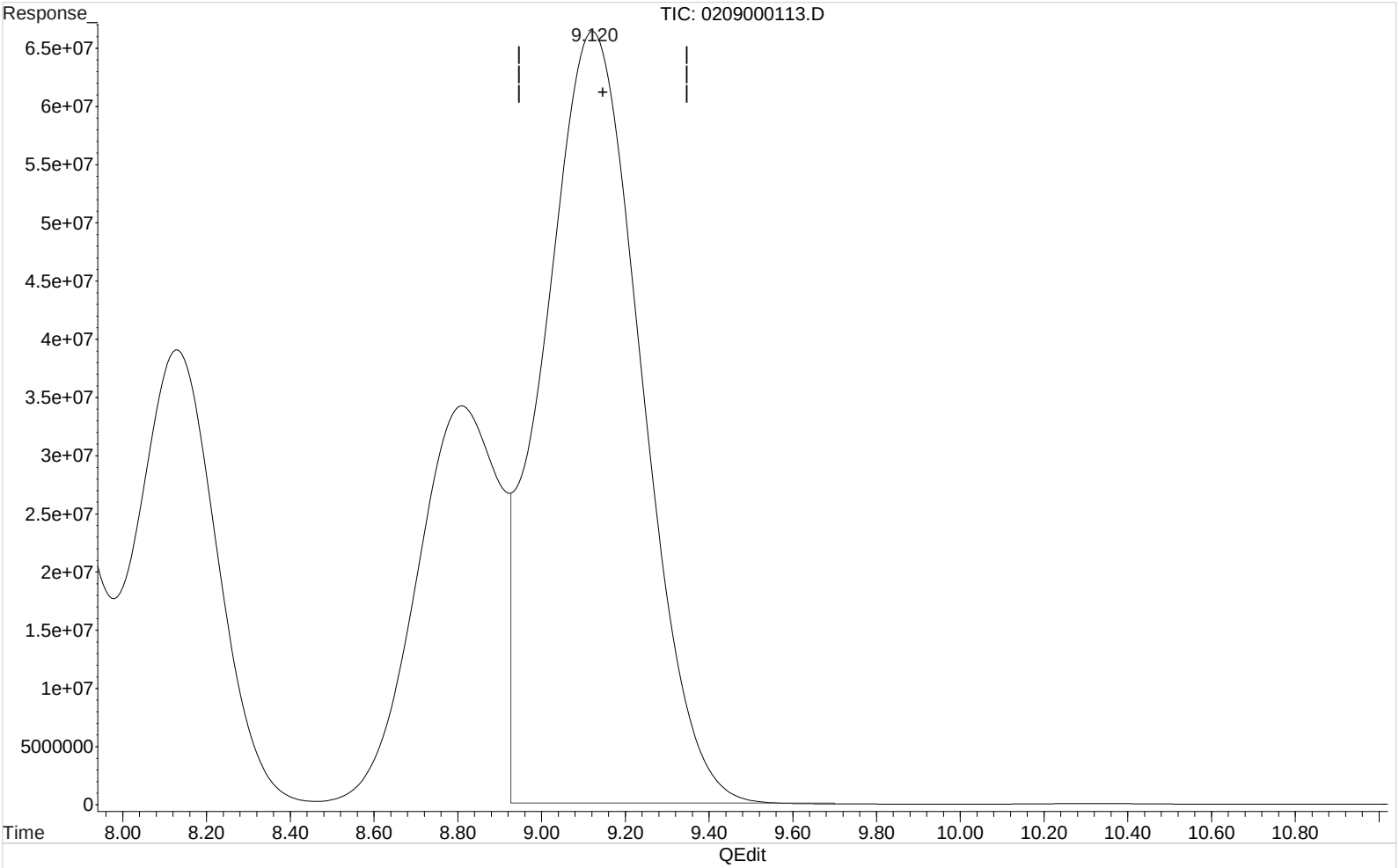
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(9) 1,3-DNB (T)

9.120min 0.000 ug/L m

response 1077373089

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000114.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:09:06 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:23:50 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
11) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
	Target Compounds					
1) T	HMX	0.000	0	N.D.	ug/L	
2) T	RDX	0.000	0	N.D.	ug/L	
3) T	Nitrobenzene	0.000	0	N.D.	ug/L	
4) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L	
5) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L	d
6) T	2-NT	0.000	0	N.D.	ug/L	d
7) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L	d
8) T	3-NT	0.000	0	N.D.	ug/L	d
9) T	1,3-DNB	0.000	0	N.D.	ug/L	
10) T	4-NT	0.000	0	N.D.	ug/L	d
12) T	2,6-DNT	0.000	0	N.D.	ug/L	d
13) T	2,4-DNT	0.000	0	N.D.	ug/L	d
14) T	Tetryl	0.000	0	N.D.	ug/L	d
15) T	1,3,5-TNB	0.000	0	N.D.	ug/L	
16) T	2,4,6-TNT	0.000	0	N.D.	ug/L	

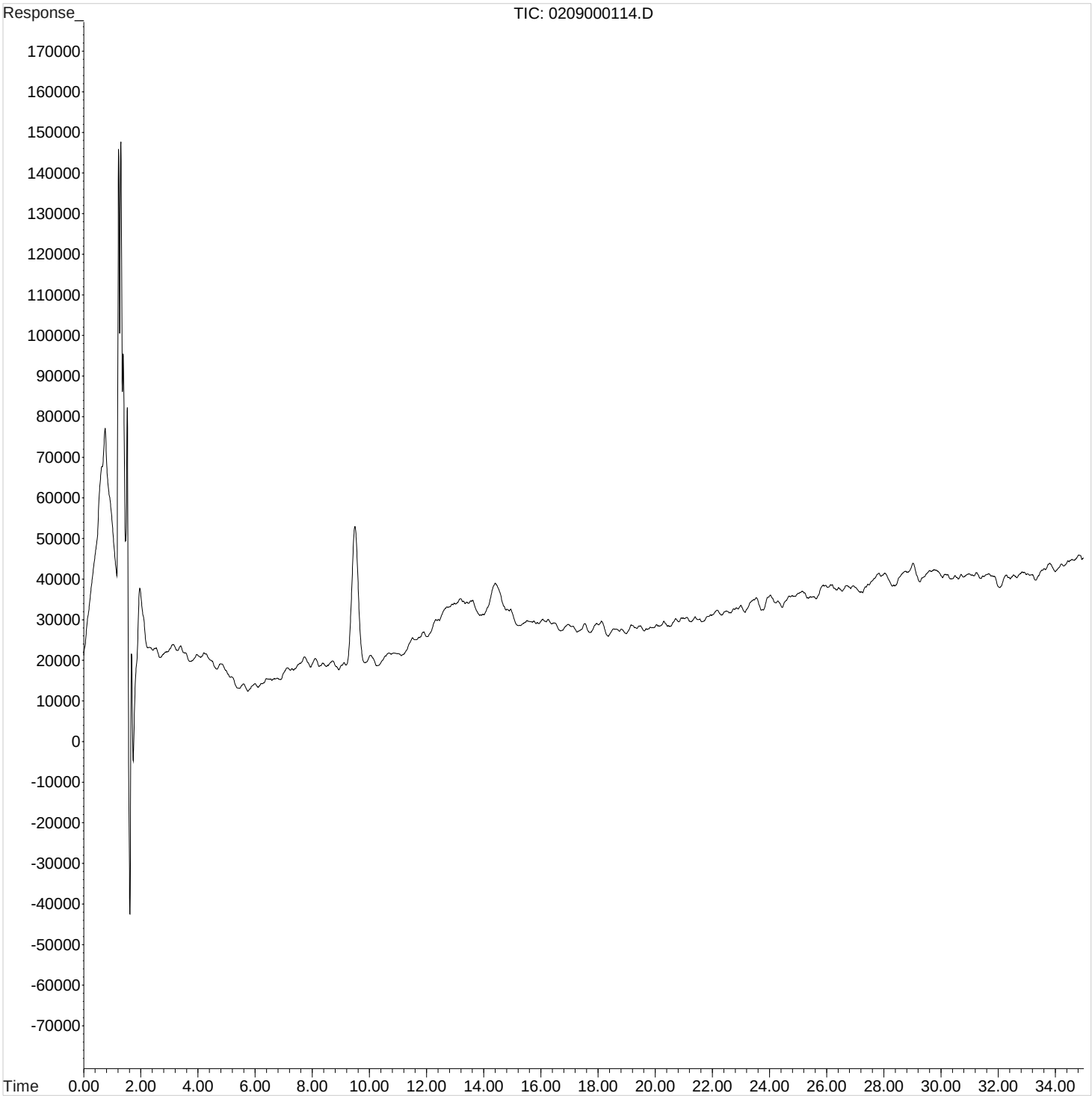
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000114.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:09:06 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:23:50 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:22:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds							
11)	S	1-Chloro-3-Nitrobenzene	8.127	24836791	943.788	ug/L	
Target Compounds							
1)	T	HMX	2.553	15189672	974.540	ug/L	
2)	T	RDX	2.800	16803386	903.368	ug/L	m
3)	T	Nitrobenzene	4.480	34528657	928.103	ug/L	m
4)	T	3,5-Dinitroaniline	5.240	43014873	925.365	ug/L	
5)	T	4-Amino-2,6-DNT	4.867	29345653	921.272	ug/L	
6)	T	2-NT	5.853	21859915	928.032	ug/L	m
7)	T	2-Amino-4,6-DNT	6.353	38582149	914.519	ug/L	m
8)	T	3-NT	6.973	25230895	902.935	ug/L	
9)	T	1,3-DNB	9.120	51447002	919.544	ug/L	m
10)	T	4-NT	7.833	21970507	942.506	ug/L	
12)	T	2,6-DNT	8.800	24072617	983.755	ug/L	
13)	T	2,4-DNT	14.787	47663620	906.089	ug/L	
14)	T	Tetryl	12.960	26728022	910.339	ug/L	
15)	T	1,3,5-TNB	19.780	38519494	914.207	ug/L	
16)	T	2,4,6-TNT	20.760	35648669	918.724	ug/L	

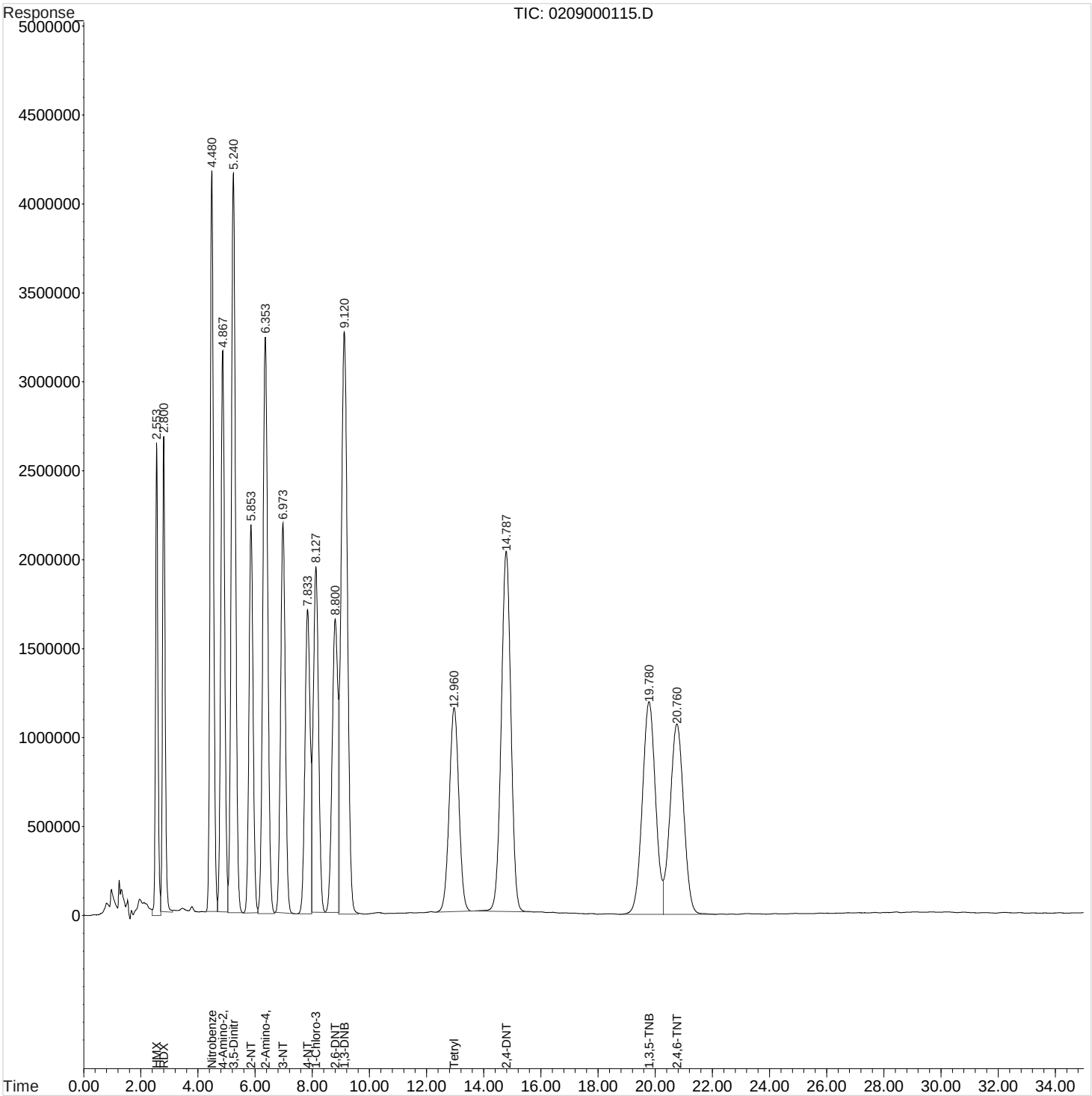
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:22:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

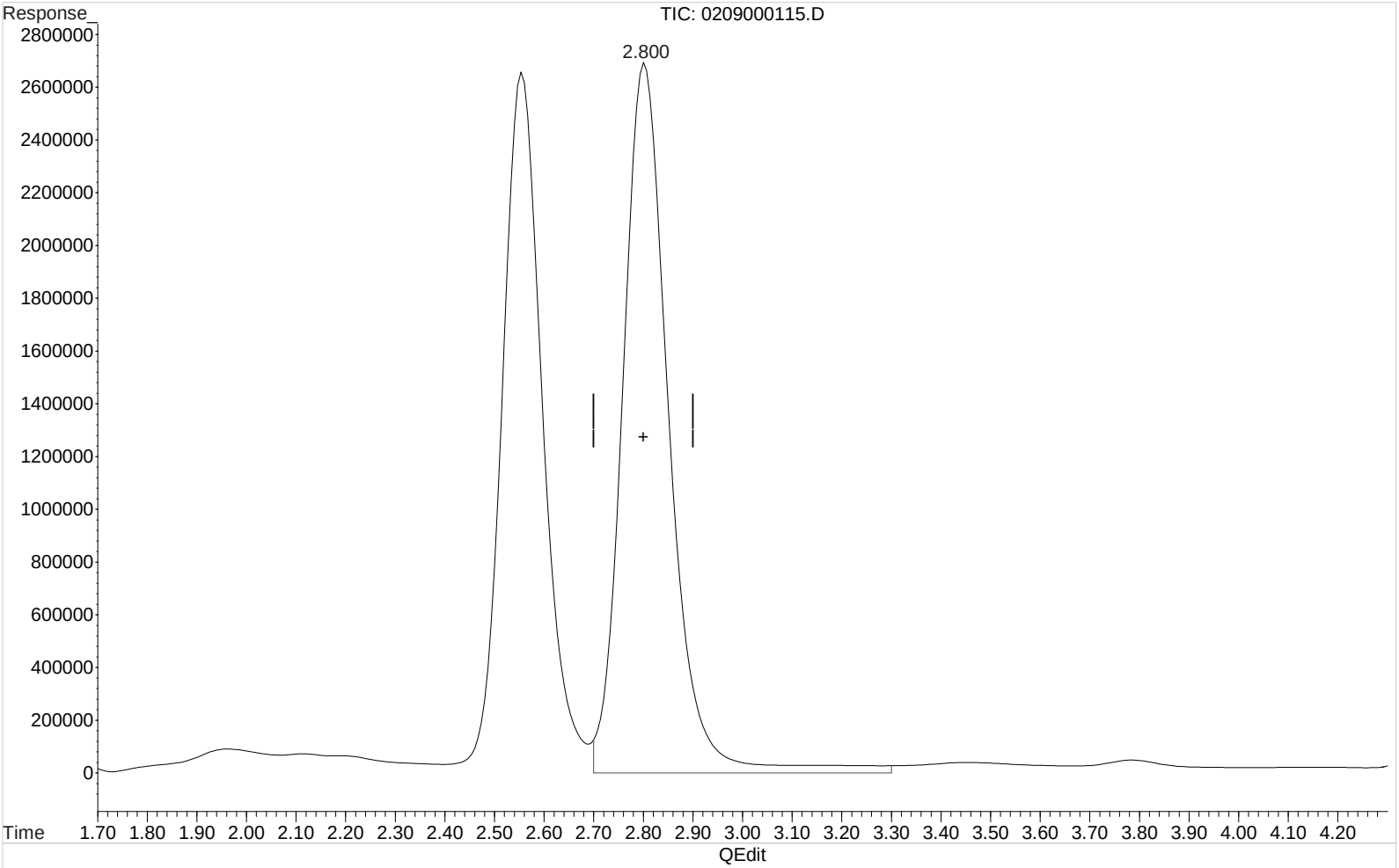


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(2) RDX (T)

2.800min 943.070 ug/L

response 17541874

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

(b) (6)

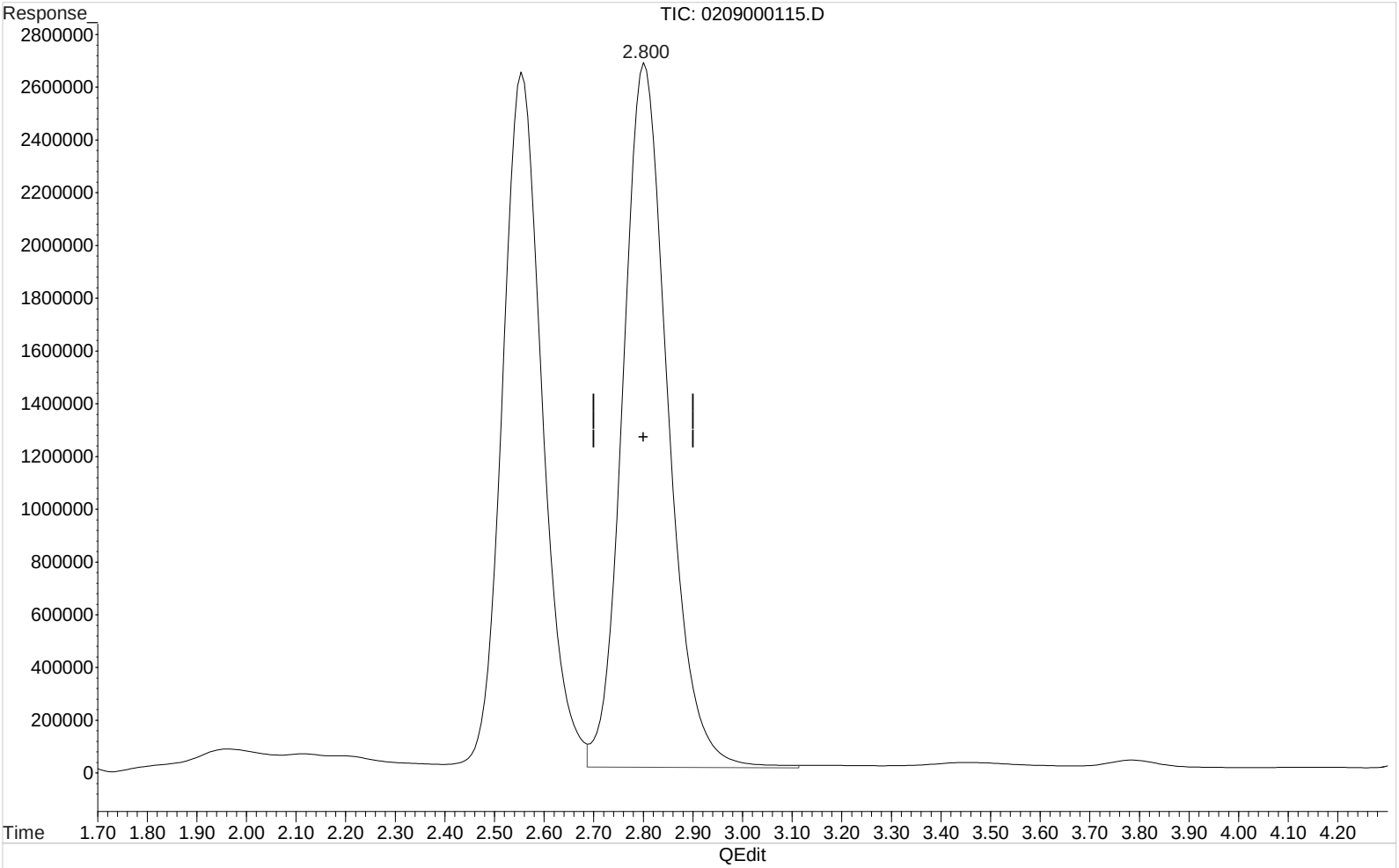
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(2) RDX (T)

2.800min 903.368 ug/L m

response 16803386

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

(b) (6)

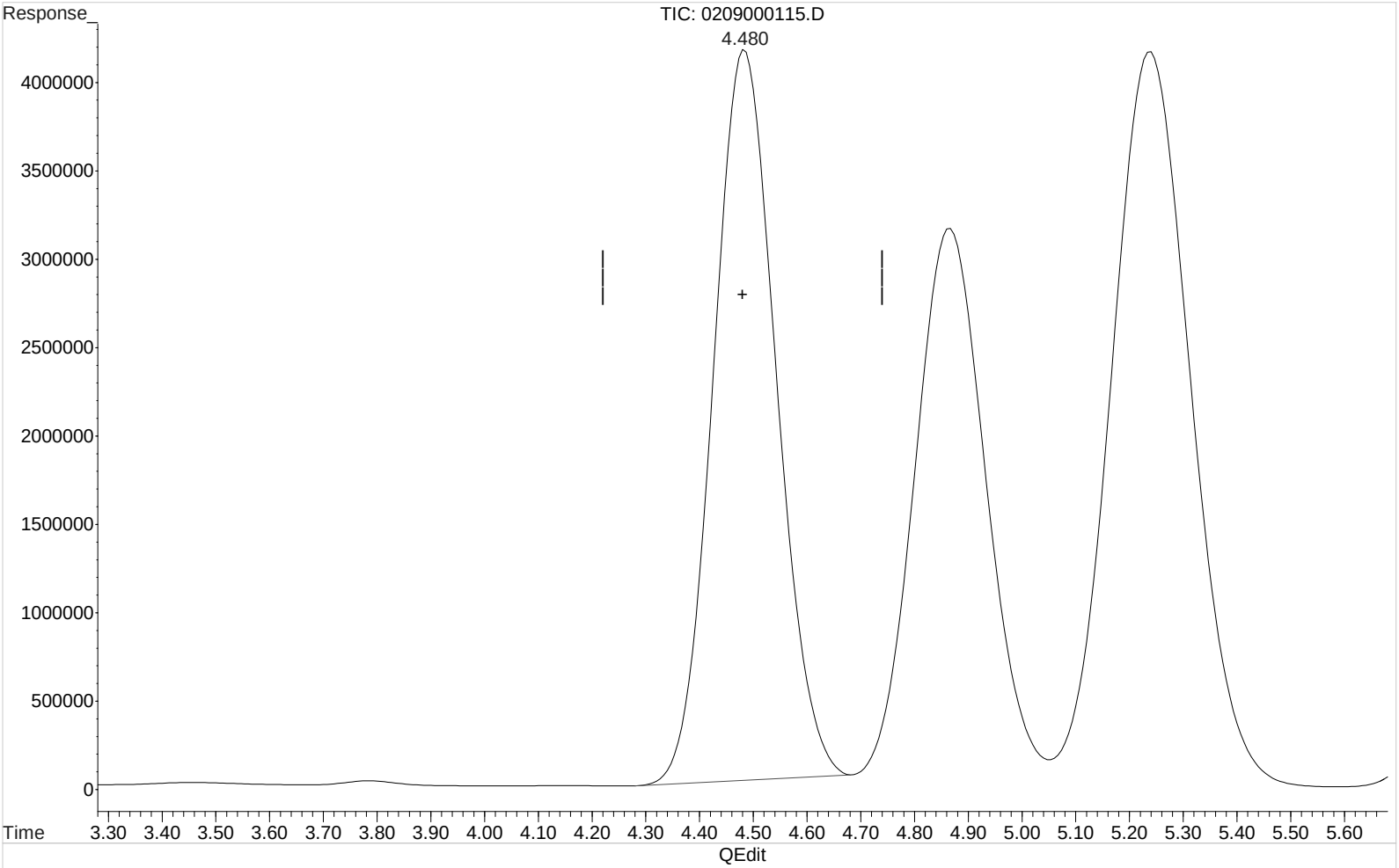
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(3) Nitrobenzene (T)

4.480min 908.645 ug/L

response 33804752

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

(b) (6)

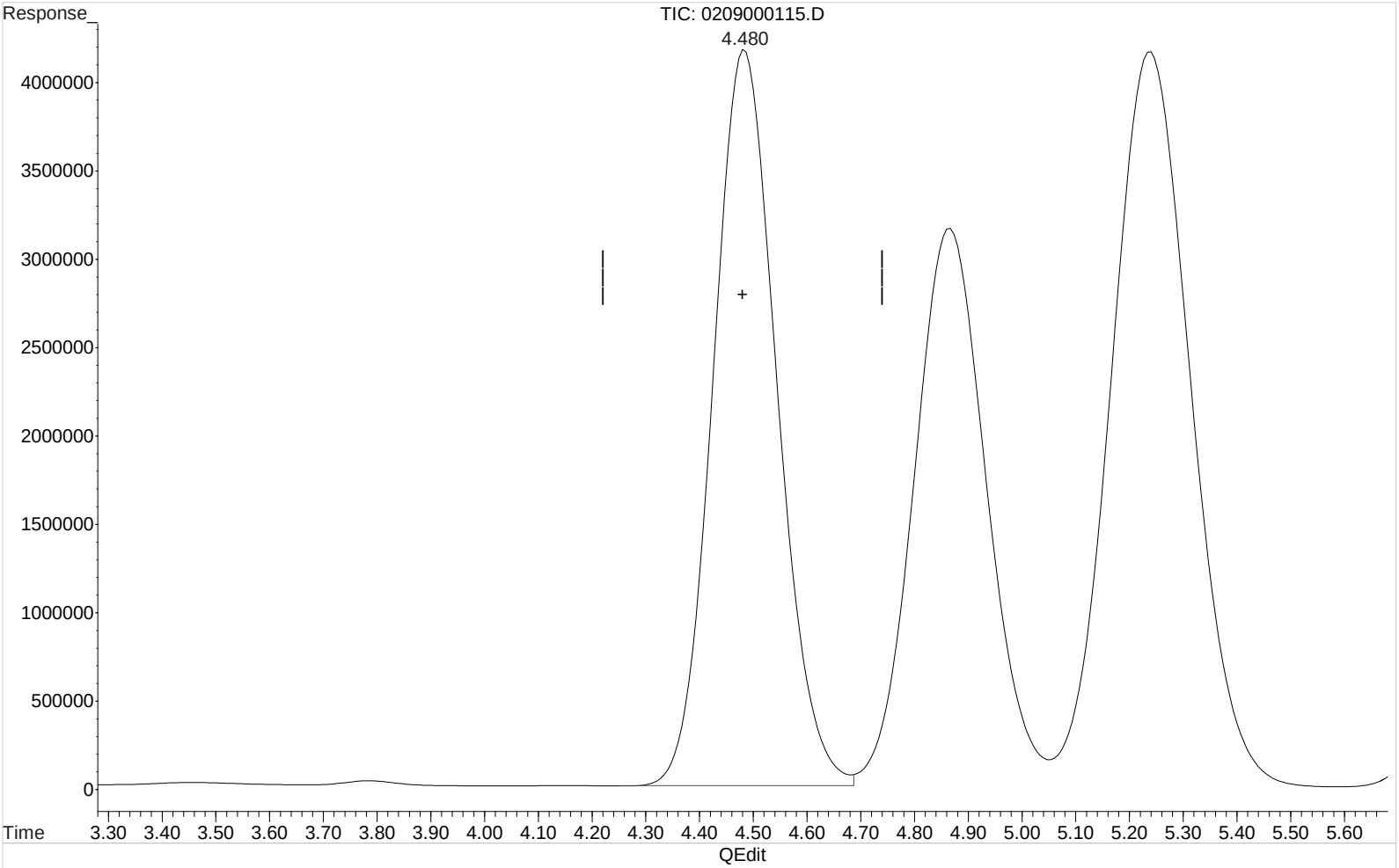
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(3) Nitrobenzene (T)

4.480min 928.103 ug/L m

response 34528657

Manual Integration:

After

BLC

02/13/17

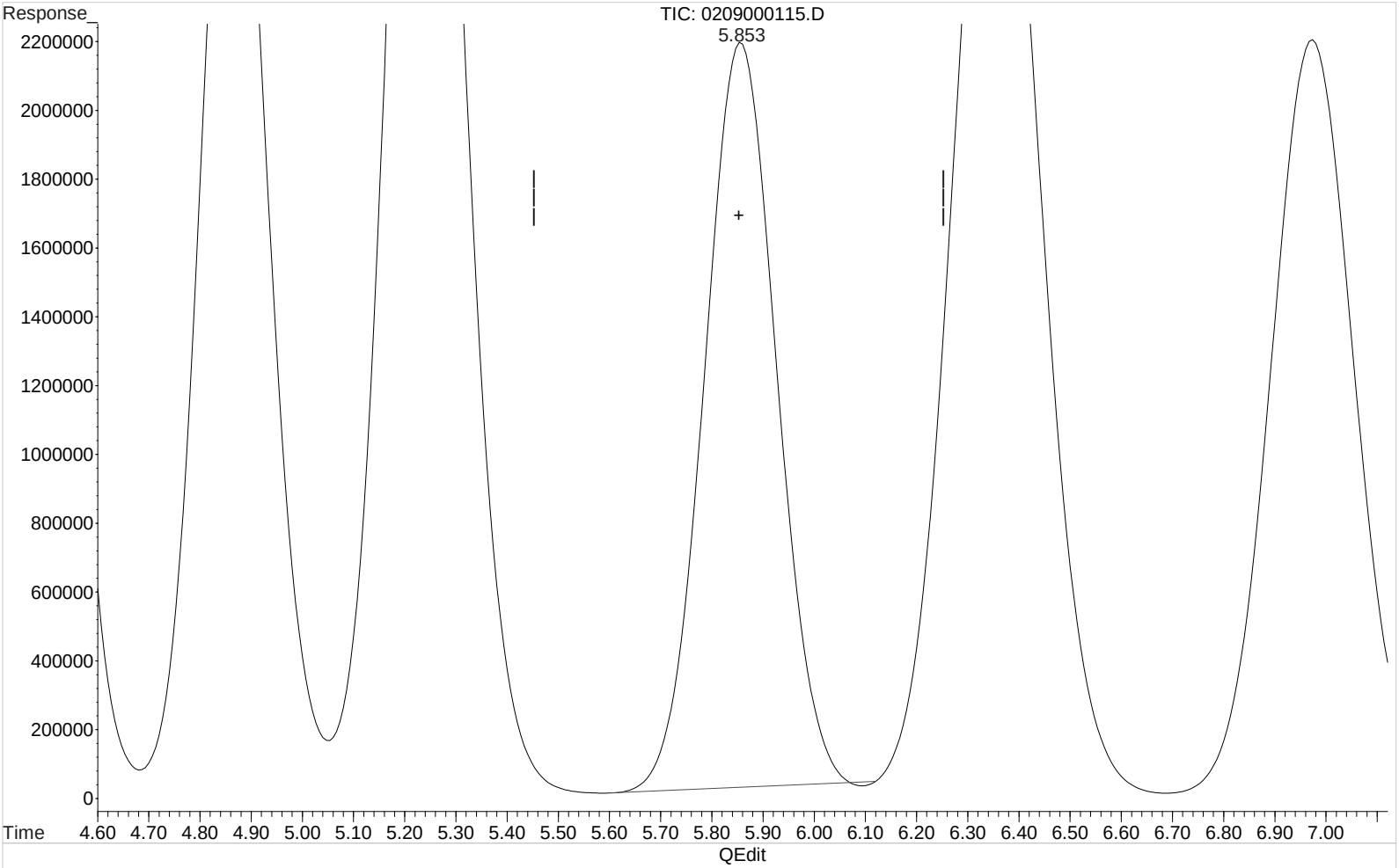
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.853min 906.205 ug/L

response 21345796

Manual Integration:

Before

02/13/17

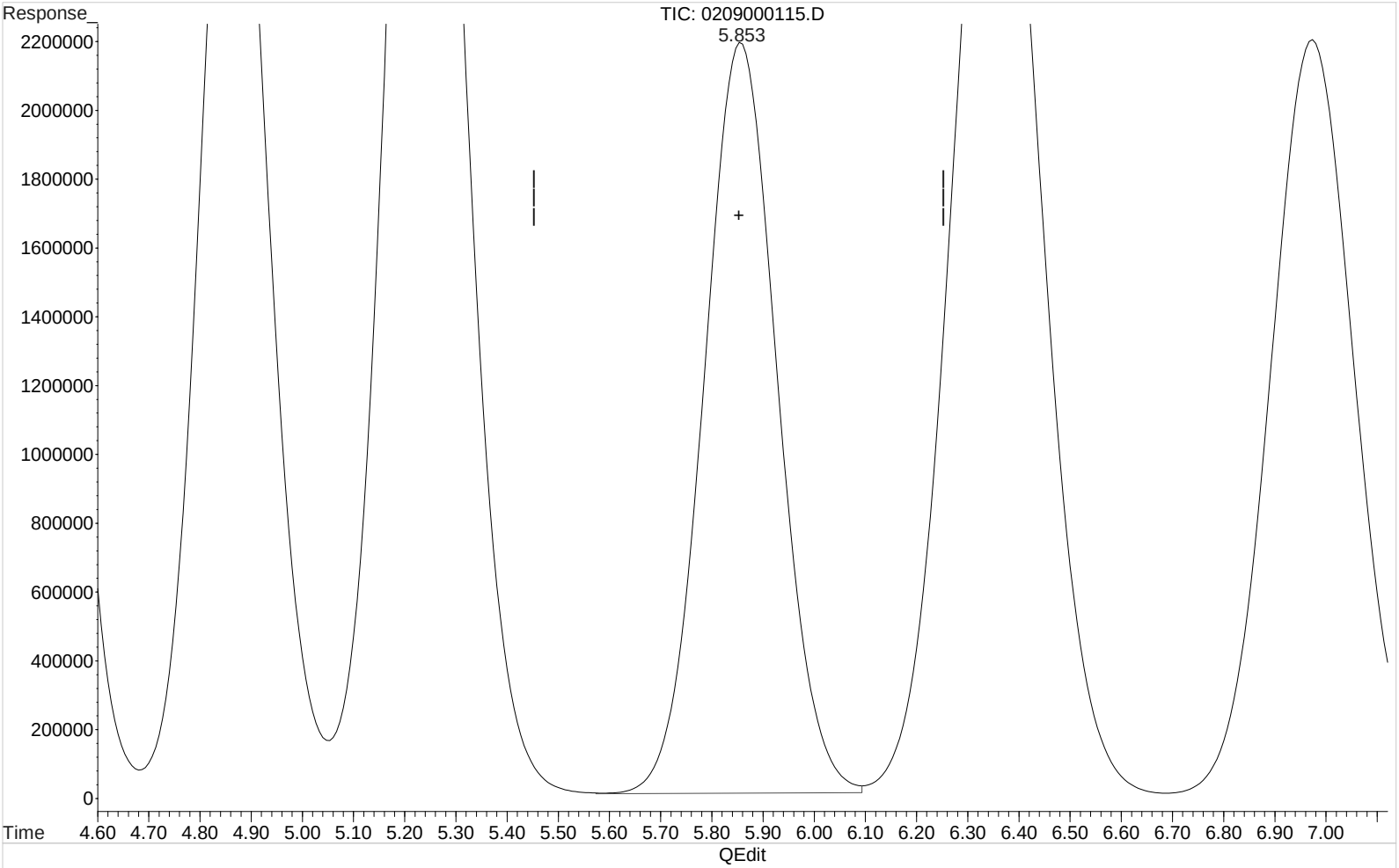
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.853min 928.032 ug/L m

response 21859915

Manual Integration:

After

BLC

02/13/17

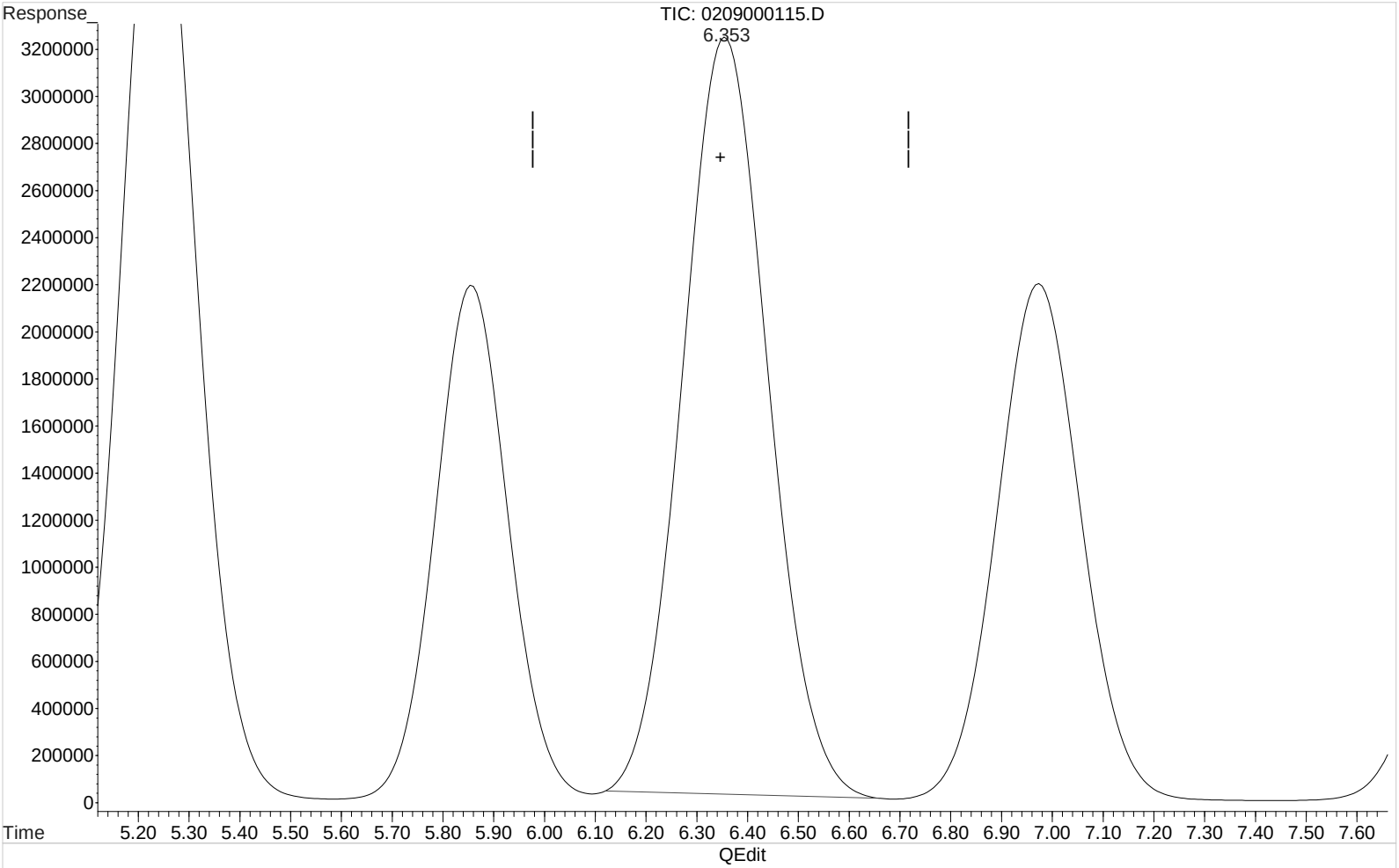
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.353min 895.482 ug/L

response 37779010

Manual Integration:

Before

02/13/17

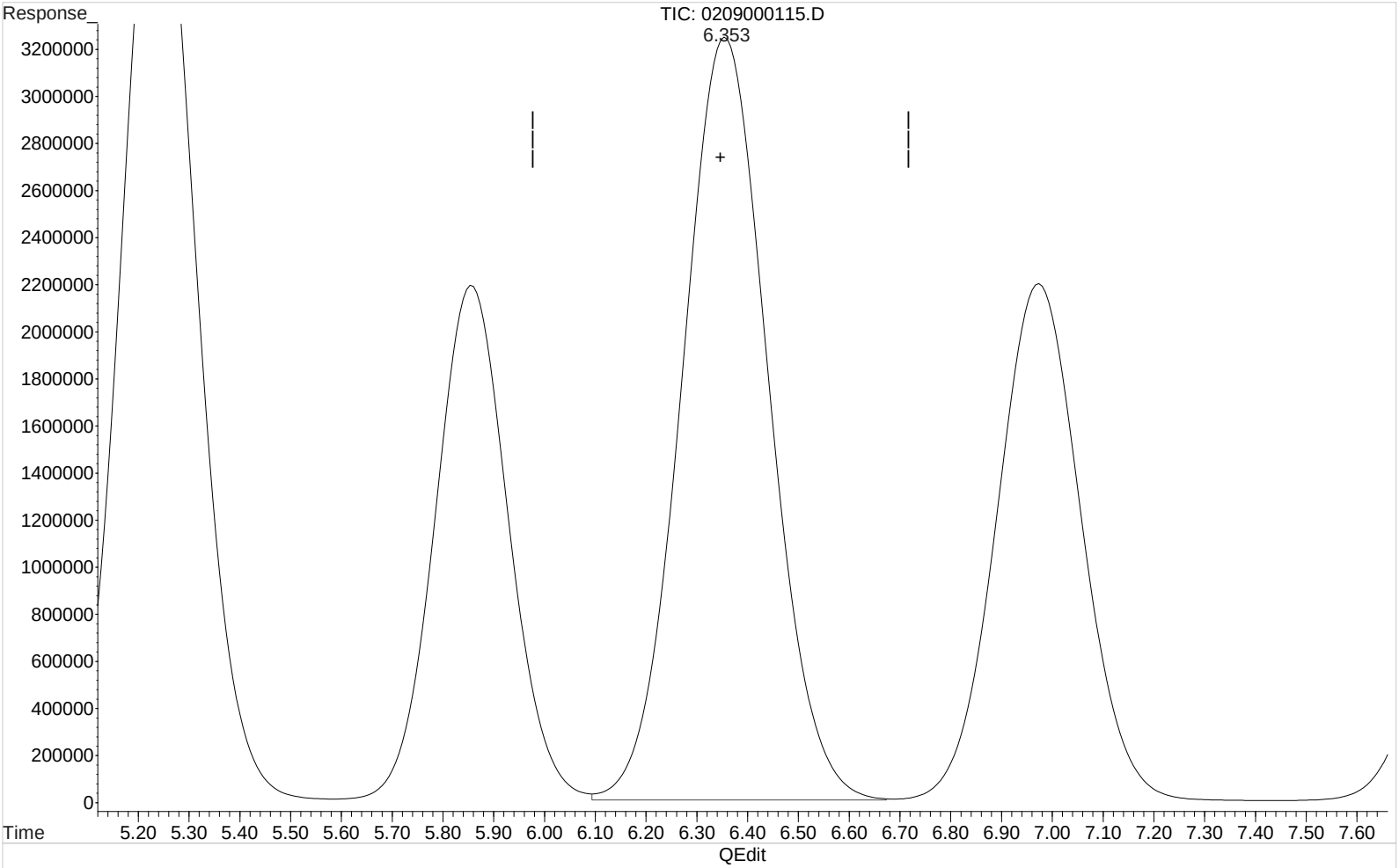
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.353min 914.519 ug/L m

response 38582149

Manual Integration:

After

BLC

02/13/17

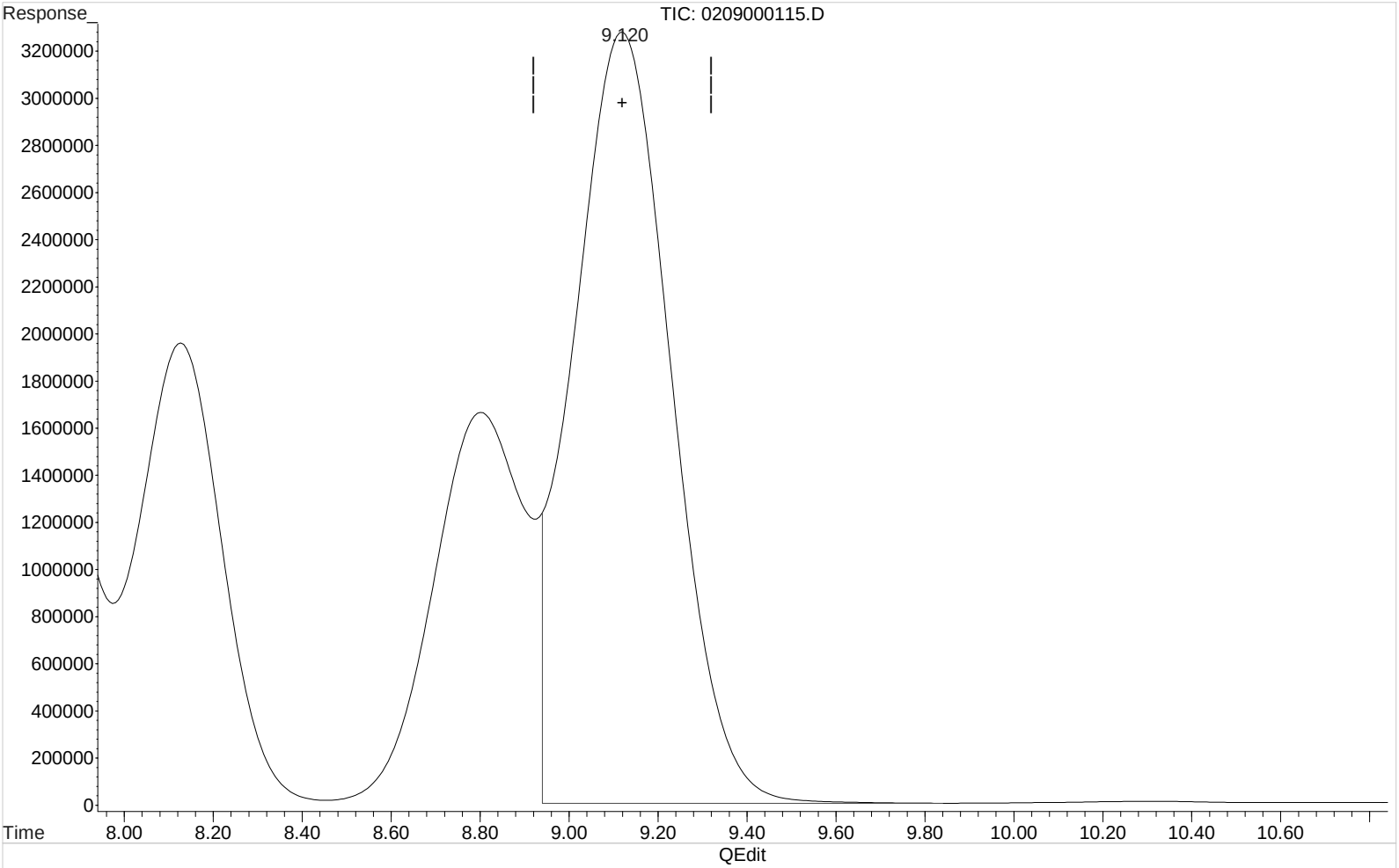
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(9) 1,3-DNB (T)

9.120min 894.233 ug/L

response 50030932

Manual Integration:

Before

02/13/17

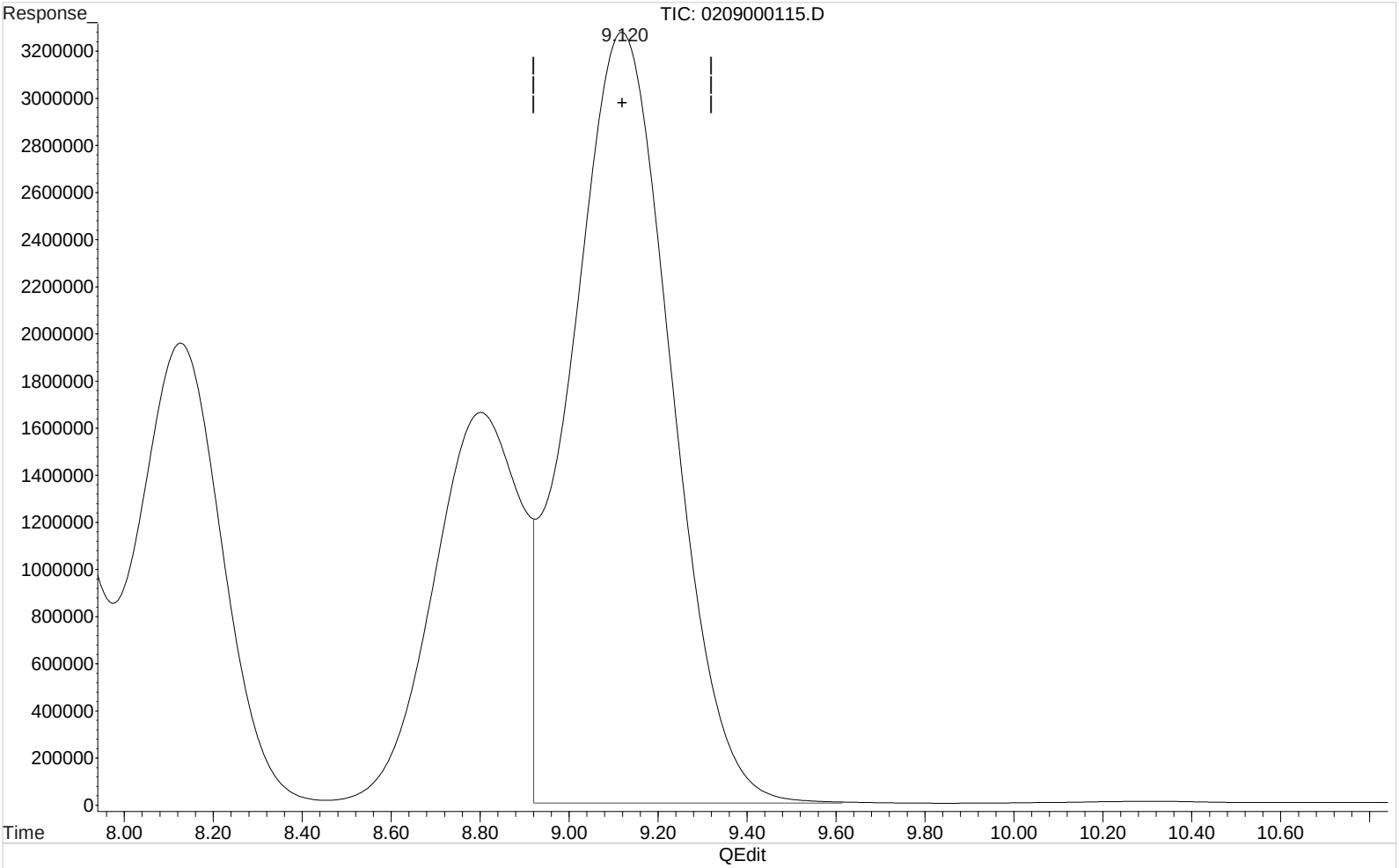
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(9) 1,3-DNB (T)

9.120min 919.544 ug/L m

response 51447002

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Date: 2/9/2017 XC-254 YC-210

ALS Environmental

ICAL Date: 2/9/2017

By: AE

Injection Log

ICAL ID: CAL 15185 (210) CAL 15192 (254)

Stealth ID: N/A

LC8 - Agilent 1260

LIMS ID: N/A

2nd Review:

Column: Ultra Aromax SN: 150411353J

Mobile Phases A: MeOH Lot#: 56189 B: ACN Lot#: 56207 C: H_2O Lot#: 56160 NA

		File Name	Method	Dilution	R	Comments
1	PRIMER	0209000101	8330BXC.M	NA		
2	PRIMER	0209000102	8330BXC.M	NA	X	
3	IB	0209000103	8330BXC.M	NA	X	
4	17-OLC-01-09J 20 PPB	0209000104	8330BXC.M	NA	X	
5	17-OLC-01-09I 50 PPB	0209000105	8330BXC.M	NA	X	
6	17-OLC-01-09H 100 PPB	0209000106	8330BXC.M	NA	X	
7	17-OLC-01-09G 200 PPB	0209000107	8330BXC.M	NA	X	
8	17-OLC-01-09F 500 PPB	0209000108	8330BXC.M	NA	X	
9	17-OLC-01-09E 1000 PPB	0209000109	8330BXC.M	NA	X	
10	17-OLC-01-09D 2000 PPB	0209000110	8330BXC.M	NA	X	
11	17-OLC-01-09C 5000 PPB	0209000111	8330BXC.M	NA	X	
12	17-OLC-01-09B 10000 PPB	0209000112	8330BXC.M	NA	X	
13	17-OLC-01-09A 20000 PPB	0209000113	8330BXC.M	NA	X	
14	IB	0209000114	8330BXC.M	NA	X	
15	17-OLC-01-09K 1000 PPB ICV	0209000115	8330BXC.M	NA	X	
16	IB	0209000116	8330BXC.M	NA	X	

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000103.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 15:23:38 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:39:27 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
Target Compounds					
1) T	Nitroglycerin	0.000	0	N.D.	ug/L
2) T	PETN	0.000	0	N.D.	ug/L d

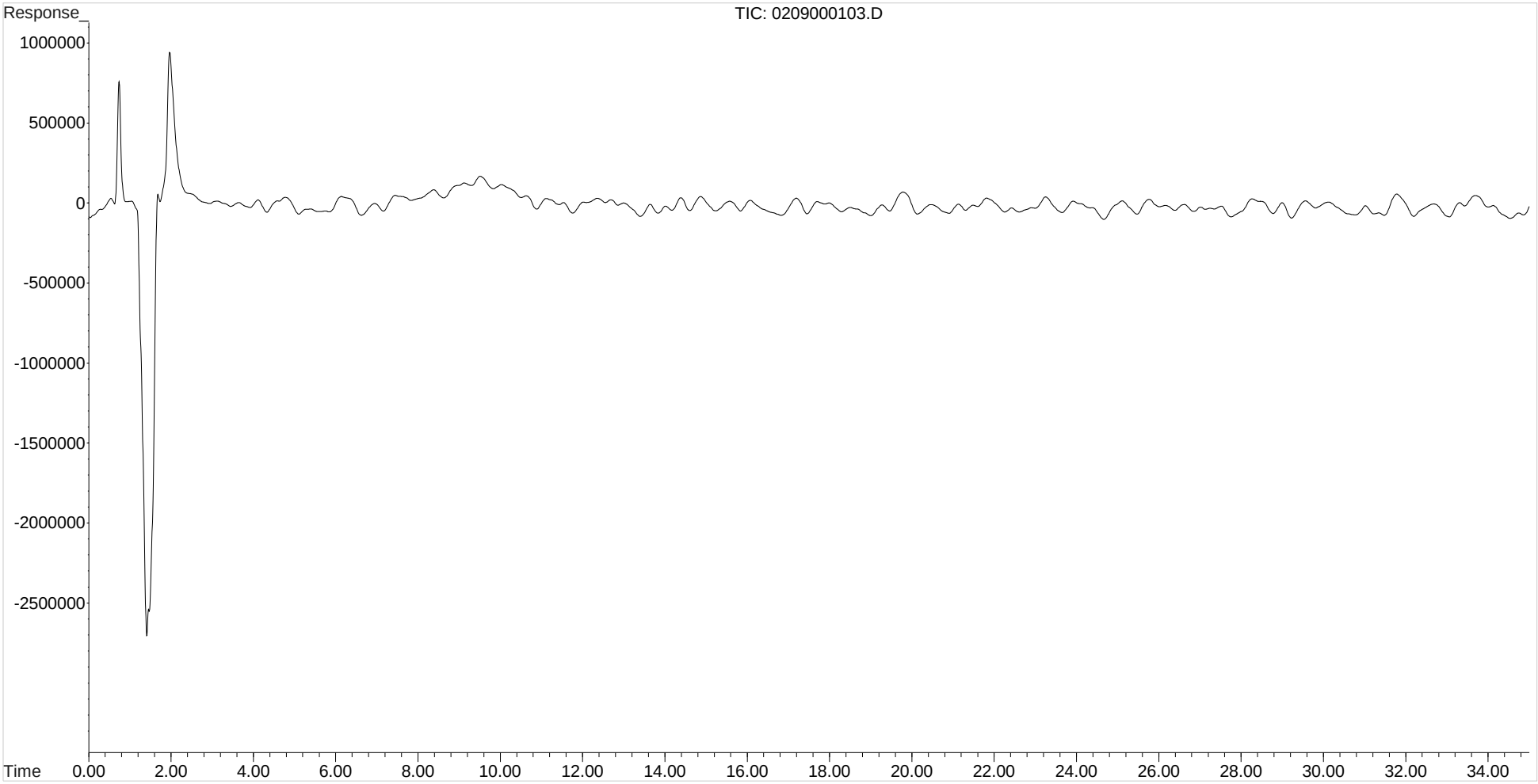
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000103.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 15:23:38 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:39:27 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:33:41 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	8.147	652772	9.384 ug/L m
Target Compounds				
1) T	Nitroglycerin	3.793	1642816	78.604 ug/L m
2) T	PETN	6.980	1691788	20.719 ug/L m

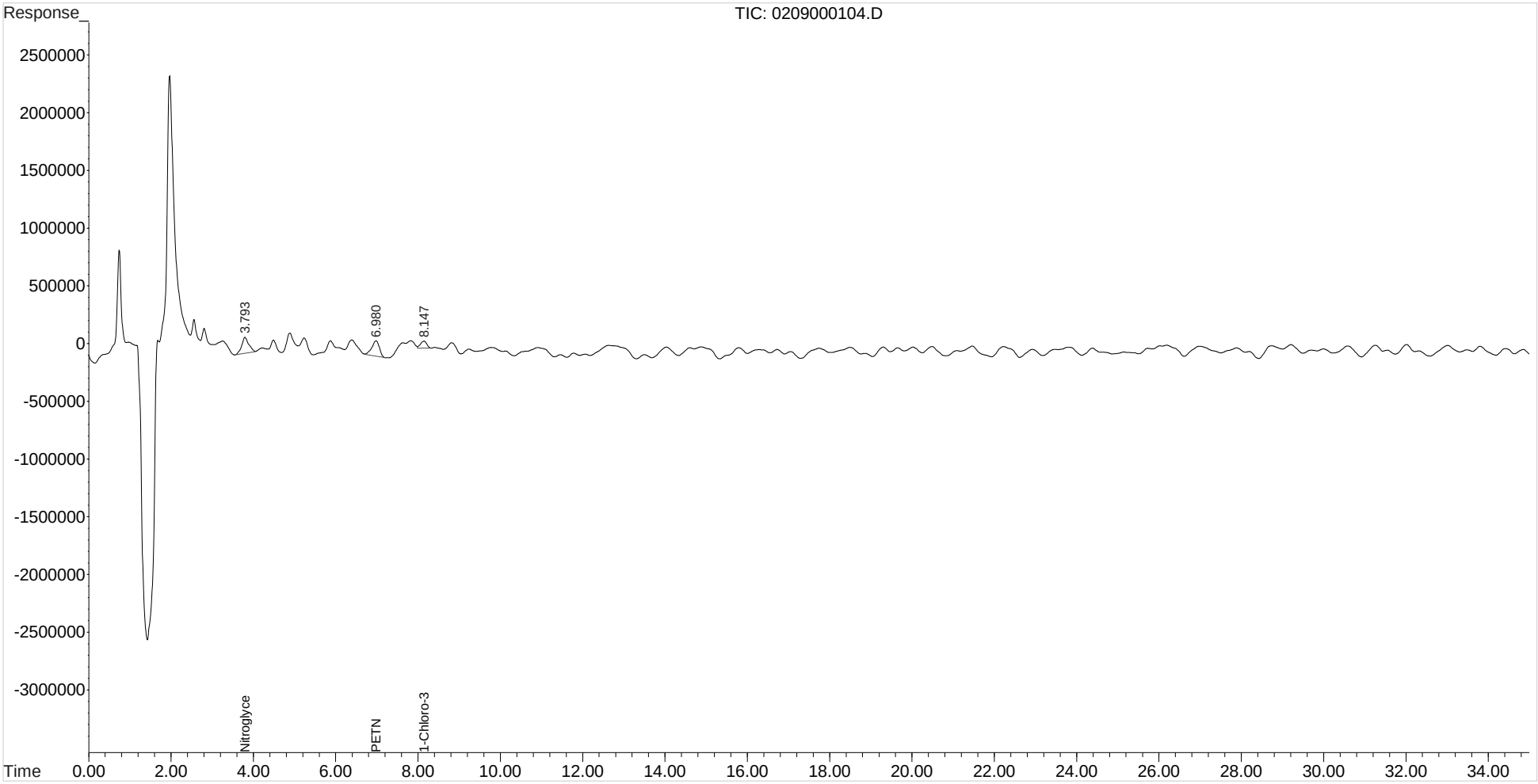
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:33:41 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(b) (6)

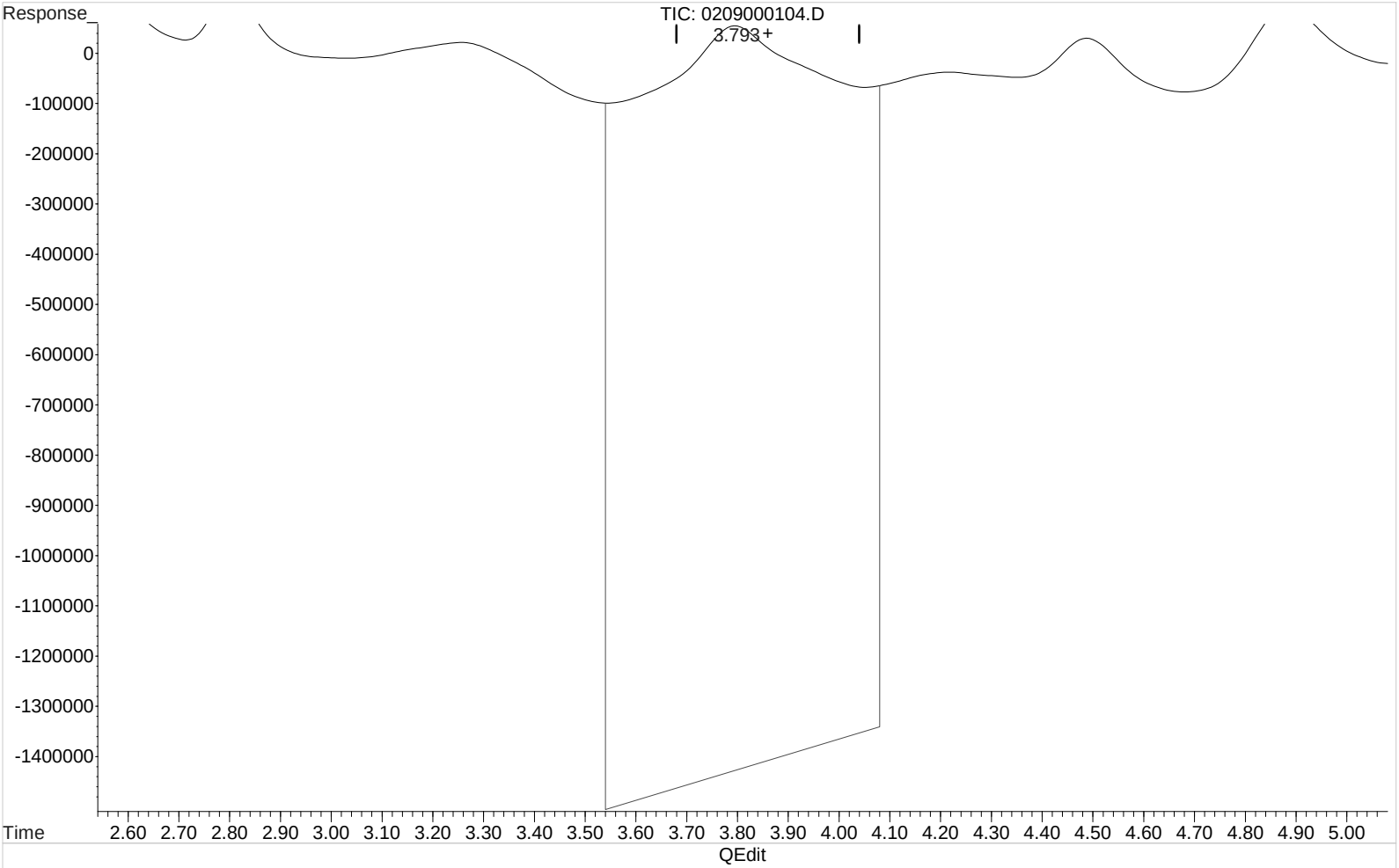
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:44 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.793min 2157.292 ug/L

response 45086986

Manual Integration:

Before

02/10/17

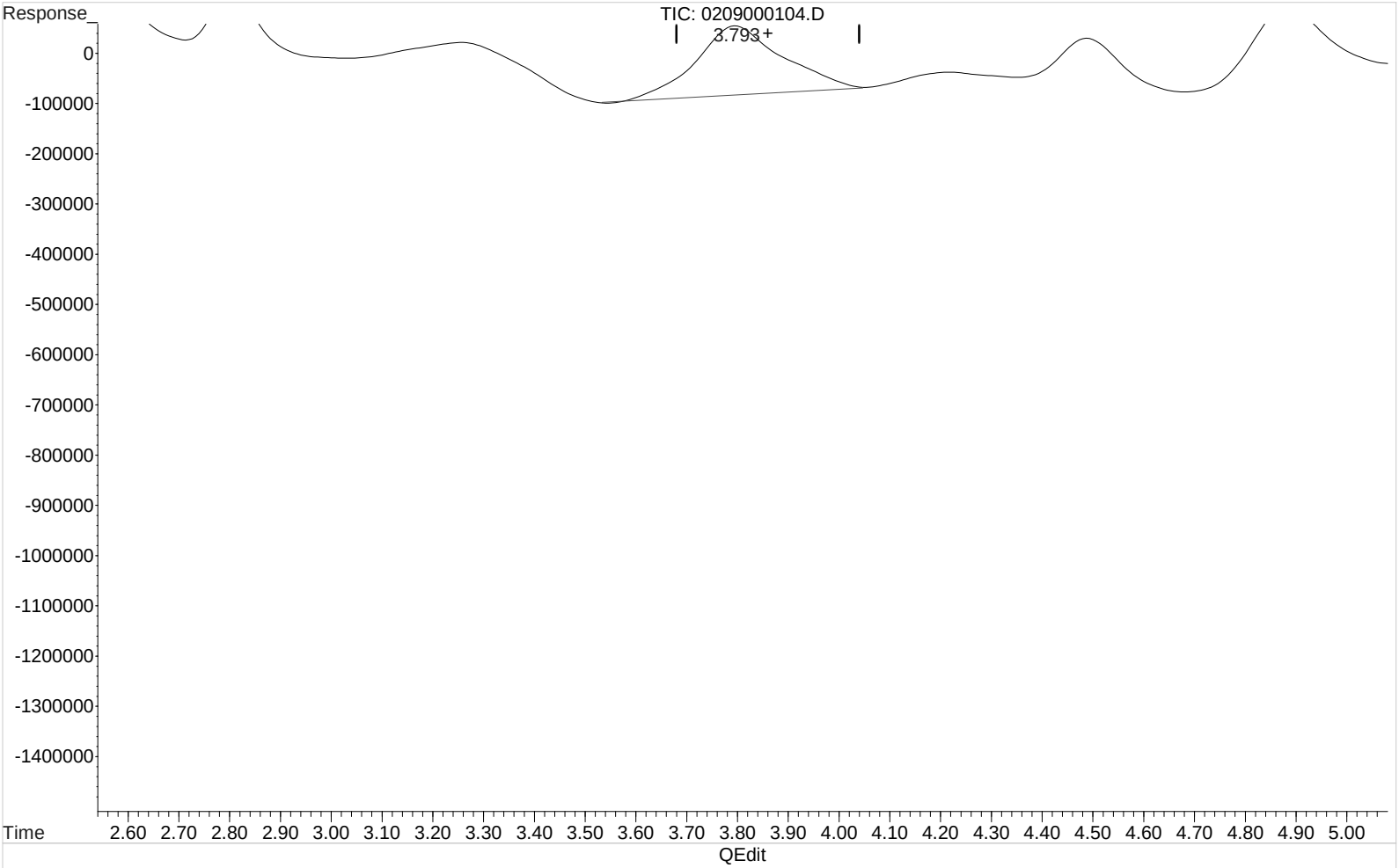
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:44 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.793min 78.604 ug/L m

response 1642816

Manual Integration:

After

BLC

02/10/17

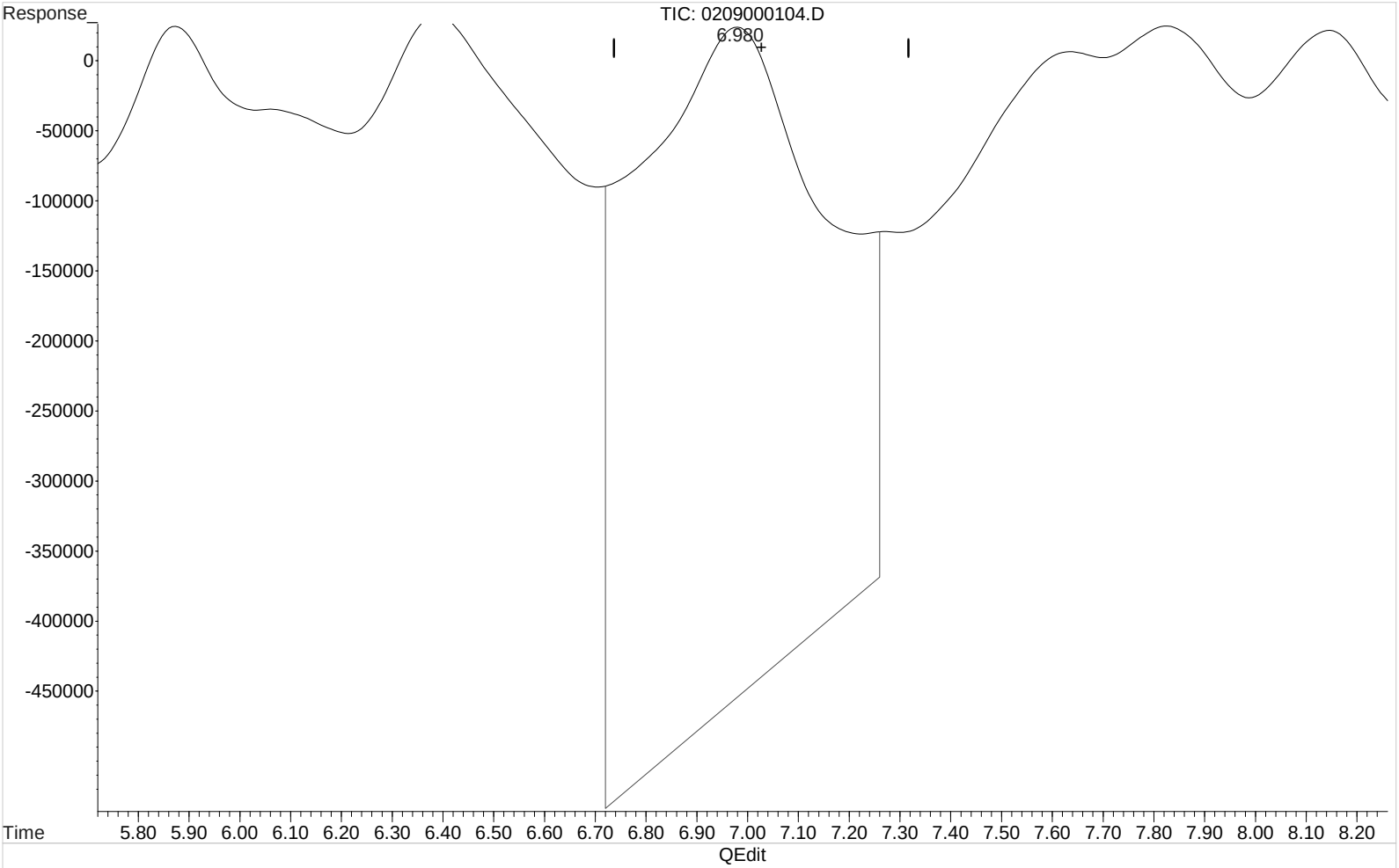
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:44 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.980min 156.268 ug/L

response 12760096

Manual Integration:

Before

02/10/17

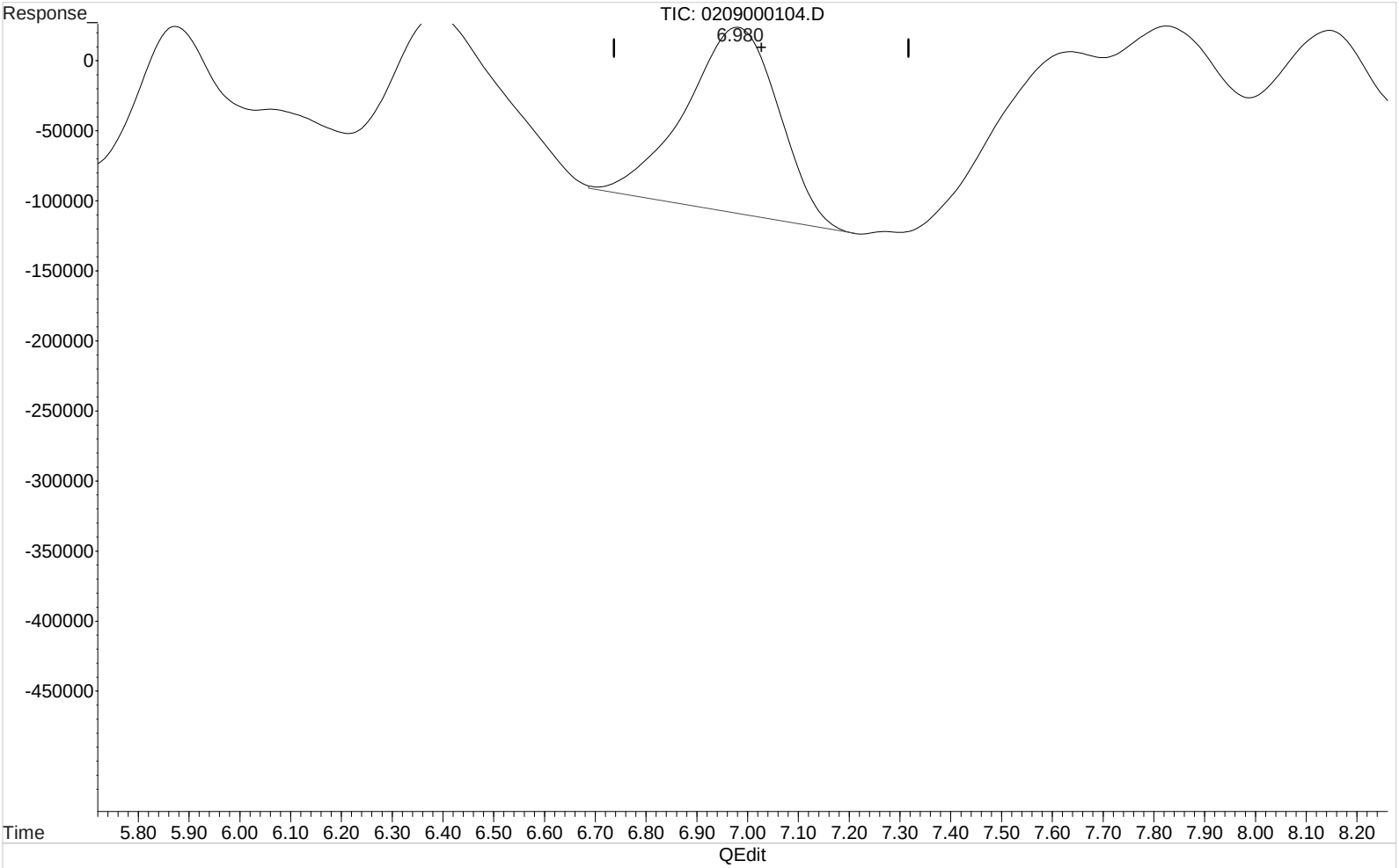
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:44 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.980min 20.719 ug/L m

response 1691788

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

(b) (6)

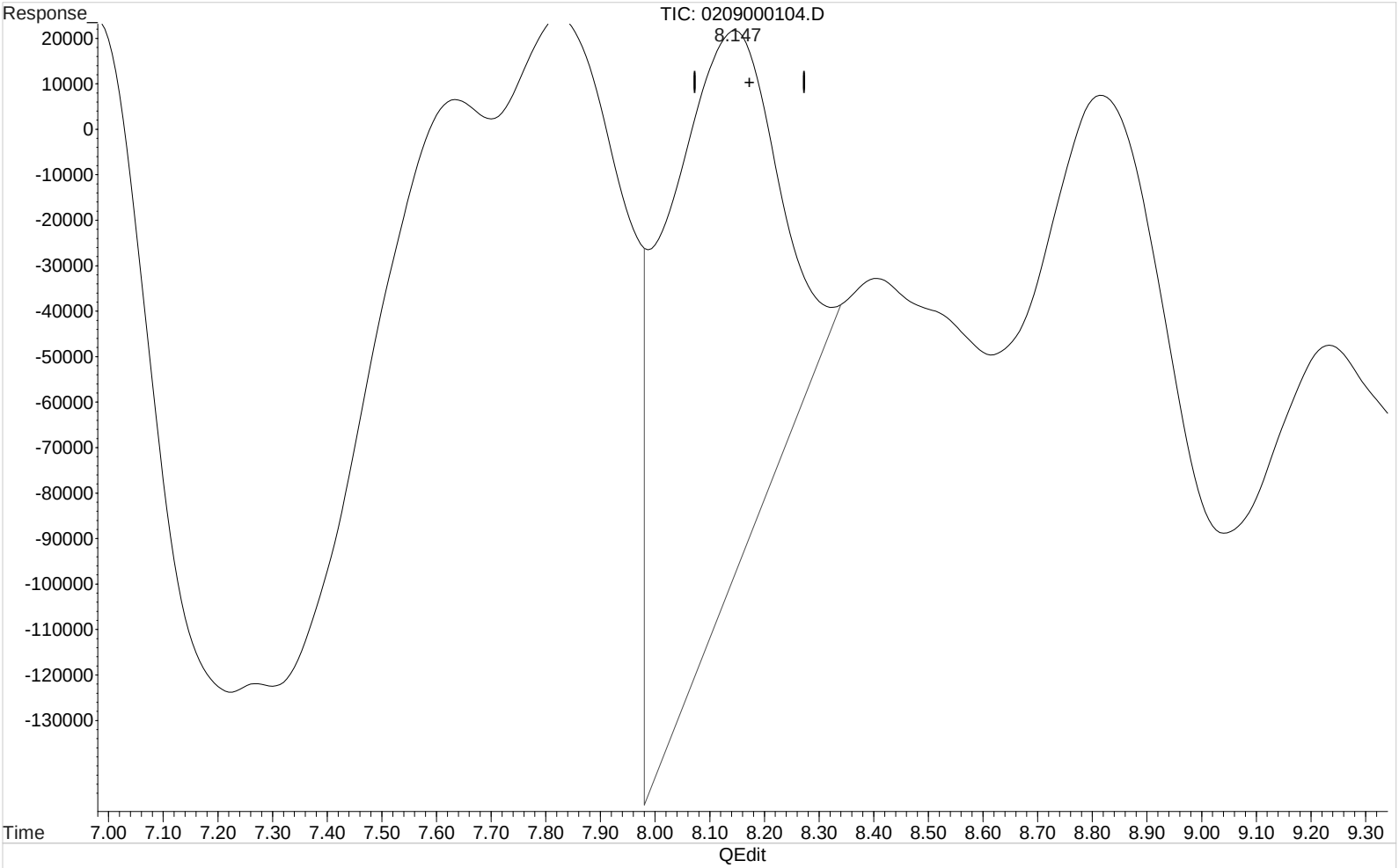
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:44 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.147min 26.209 ug/L

response 1823212

Manual Integration:

Before

02/10/17

(+) = Expected Retention Time

(b) (6)

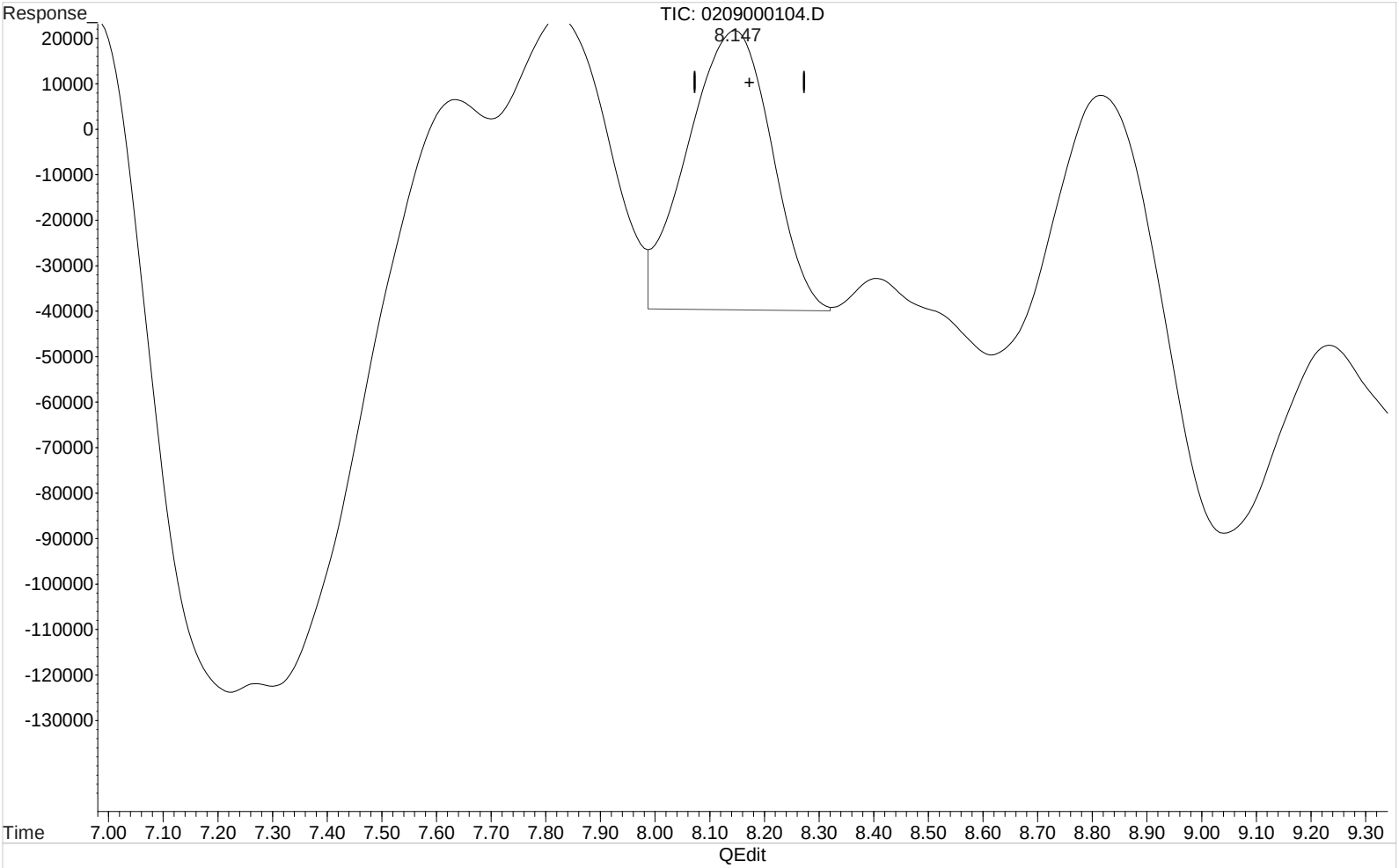
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:44 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.147min 9.384 ug/L m

response 652772

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	8.133	3061814	43.366 ug/L m
Target Compounds				
1) T	Nitroglycerin	3.793	1022712	48.804 ug/L m
2) T	PETN	6.993	3642903	44.021 ug/L m

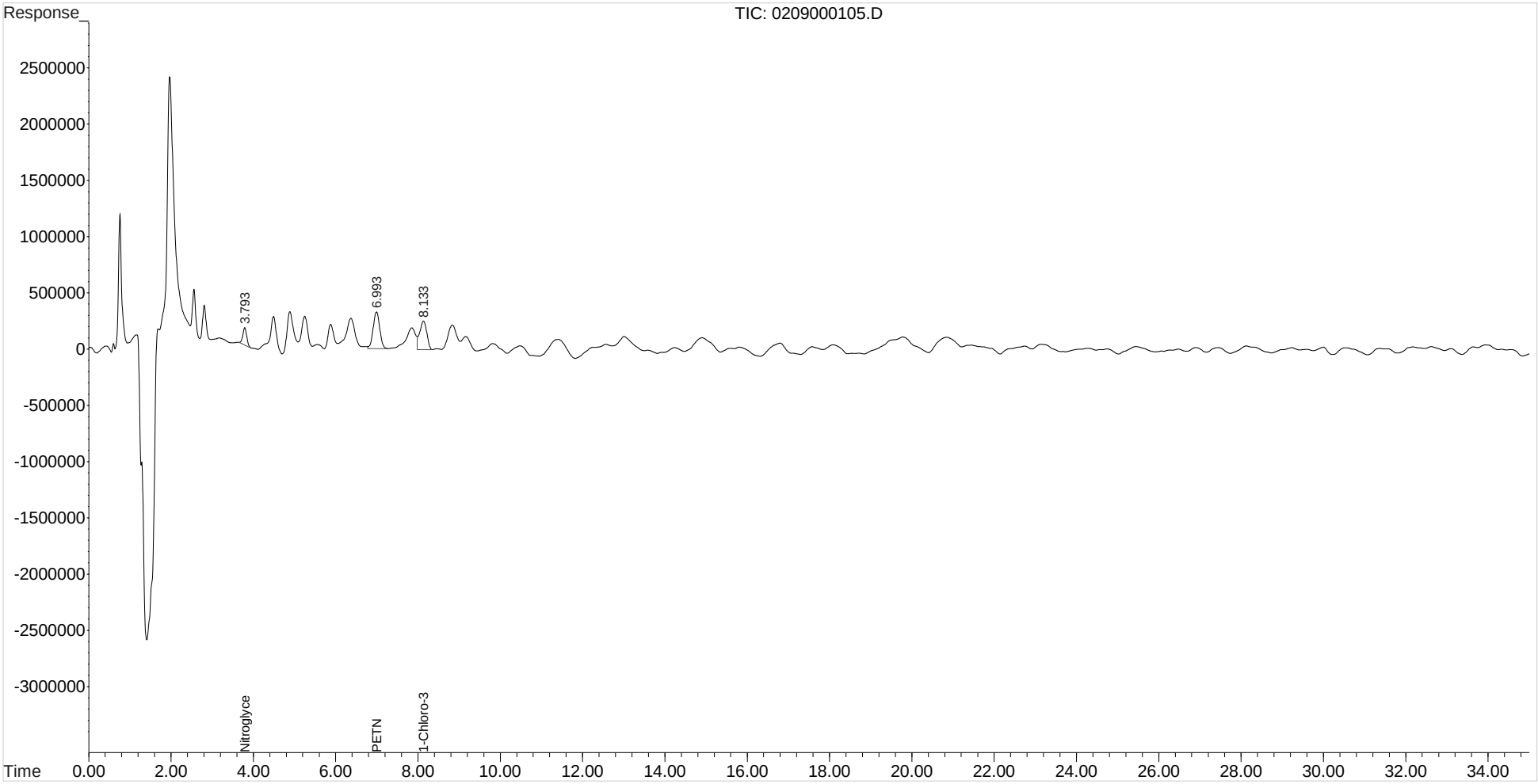
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

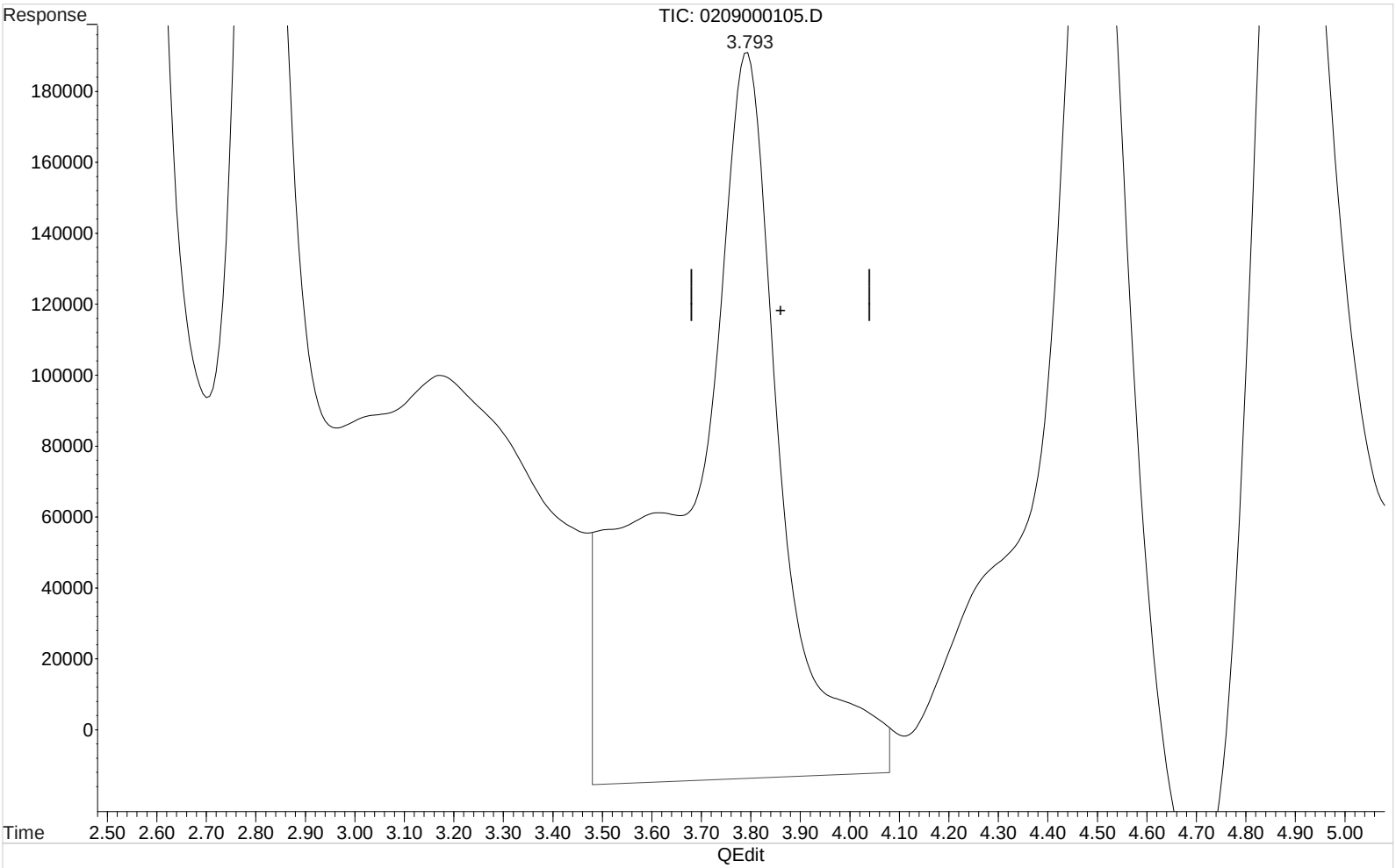


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:25 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.793min 133.146 ug/L

response 2790132

Manual Integration:

Before

02/10/17

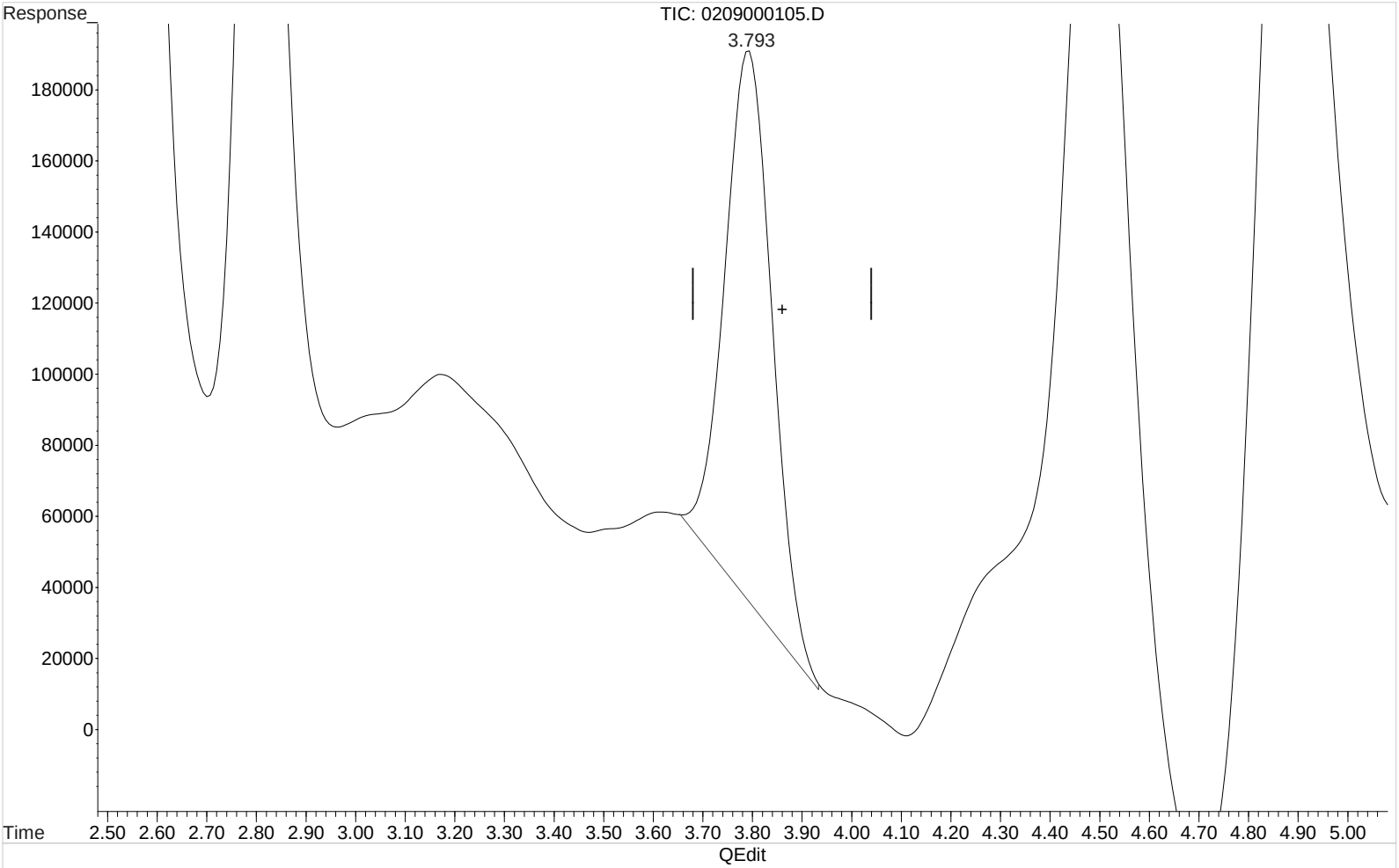
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:25 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.793min 48.804 ug/L m

response 1022712

Manual Integration:

After

BLC

02/10/17

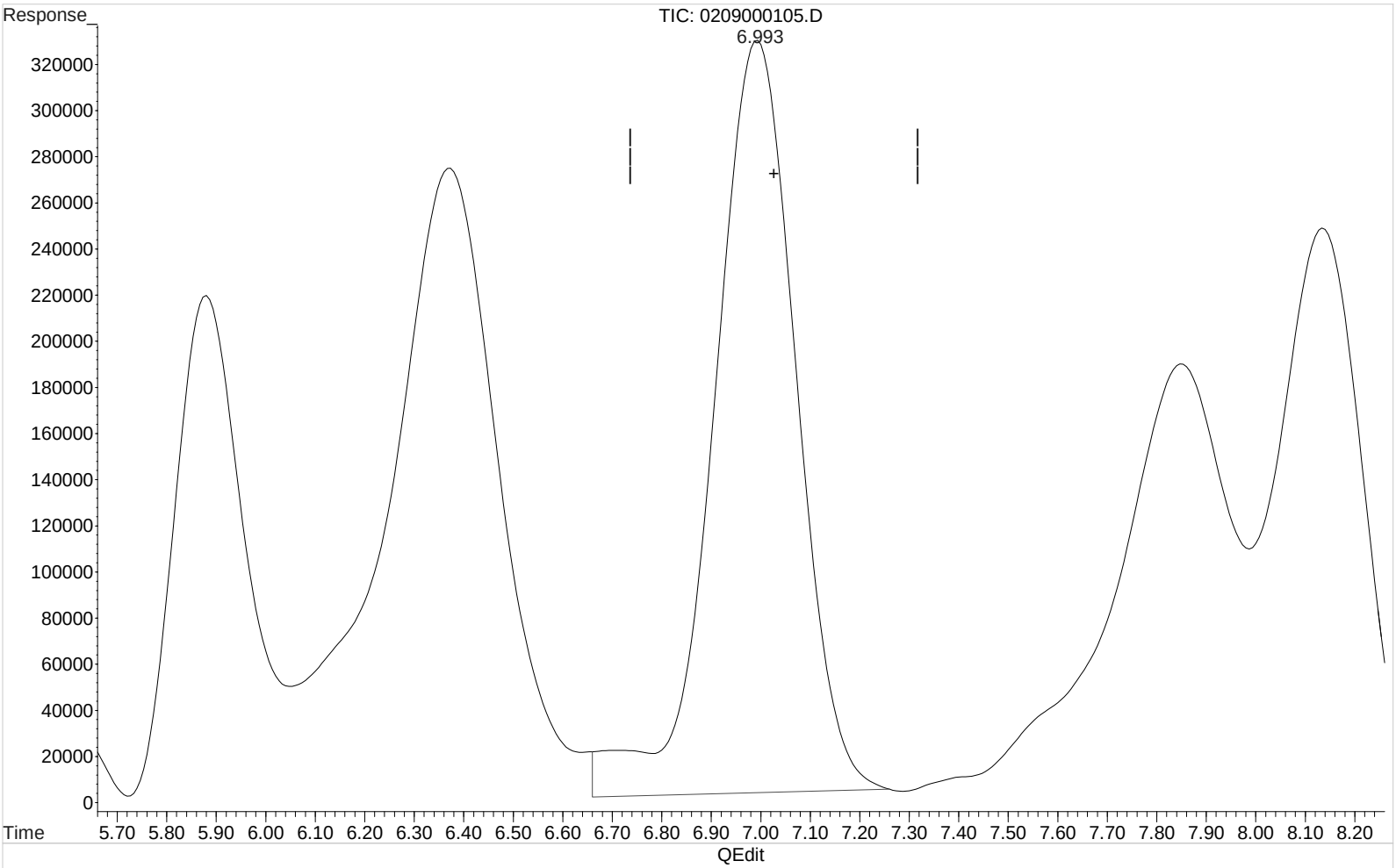
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:25 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.993min 45.943 ug/L

response 3802017

Manual Integration:

Before

02/10/17

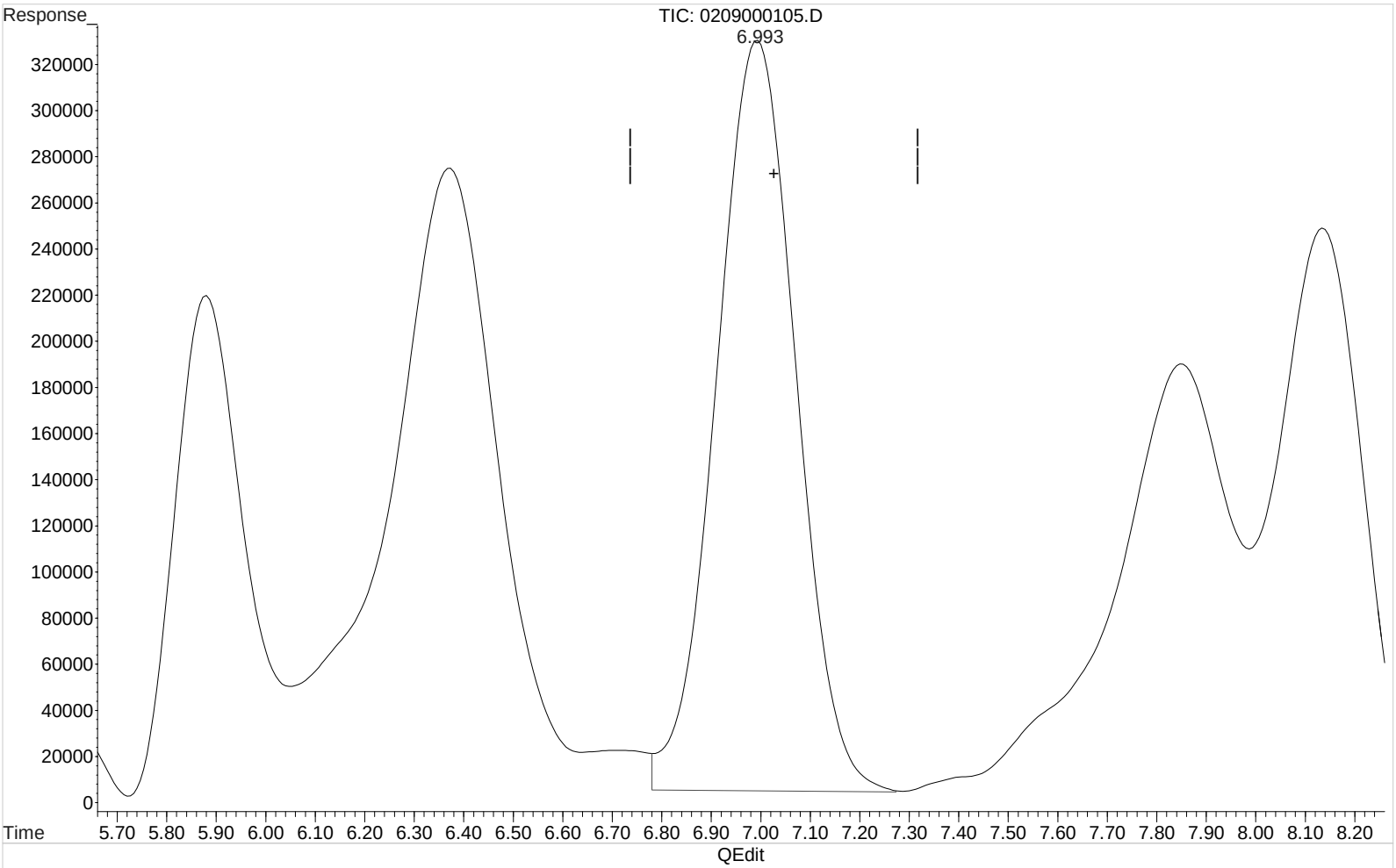
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:25 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.993min 44.021 ug/L m

response 3642903

Manual Integration:

After

BLC

02/10/17

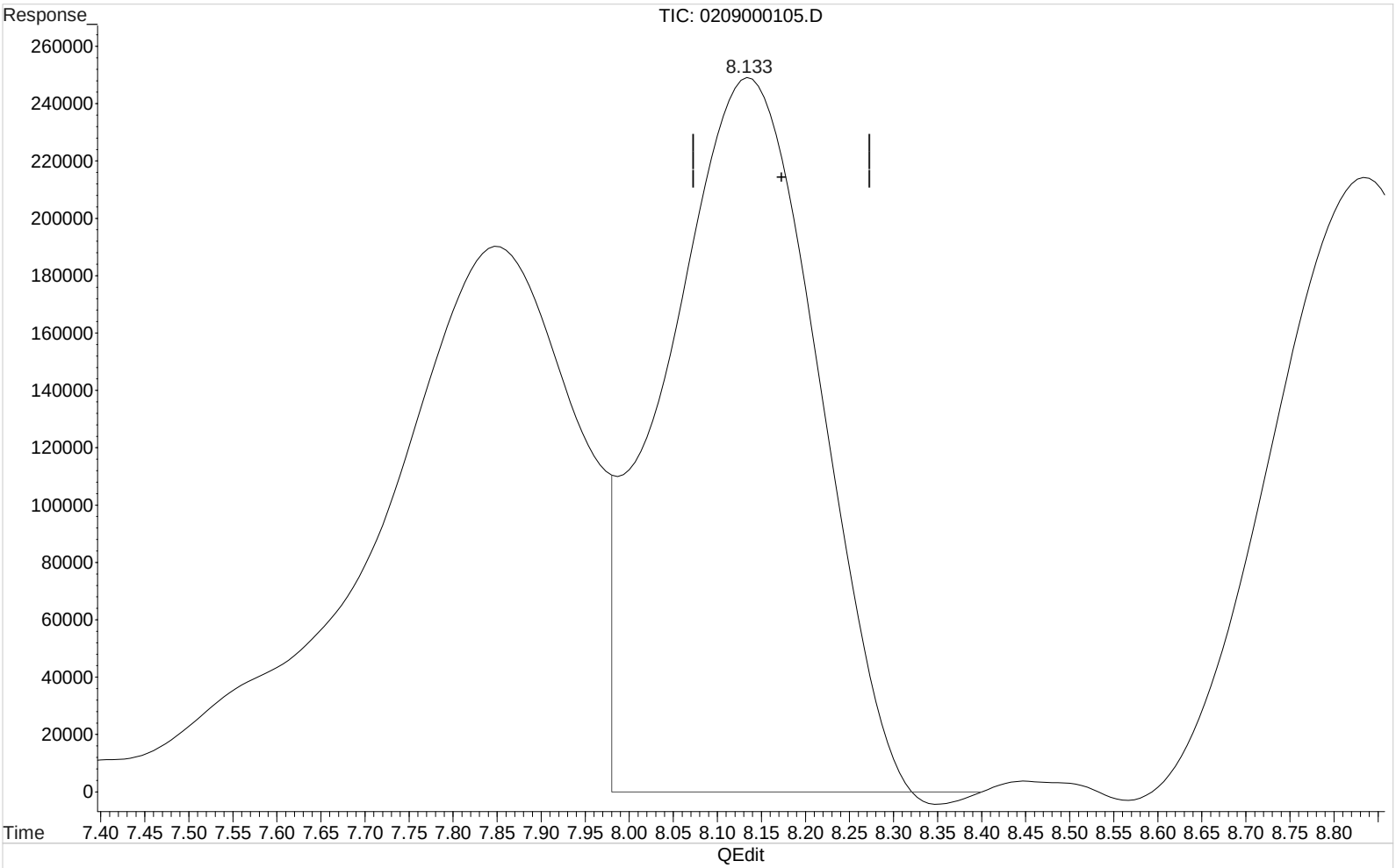
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:25 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.133min 41.867 ug/L

response 2955960

Manual Integration:

Before

02/10/17

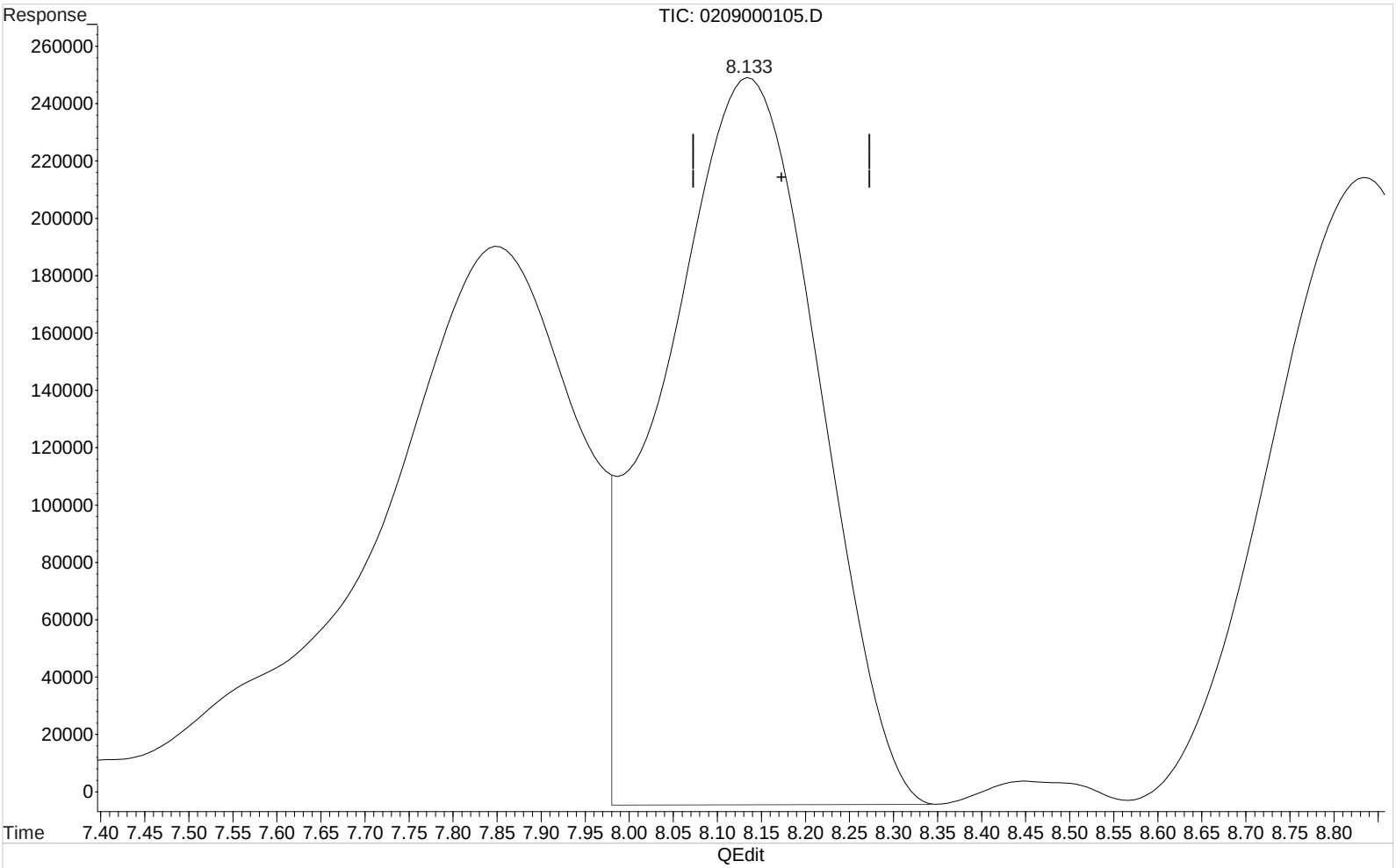
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:25 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.133min 43.366 ug/L m

response 3061814

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:09 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	8.147	7680230	110.160	ug/L	m
Target Compounds						
1) T	Nitroglycerin	3.787	1979030	93.695	ug/L	m
2) T	PETN	6.987	8553205	103.854	ug/L	m

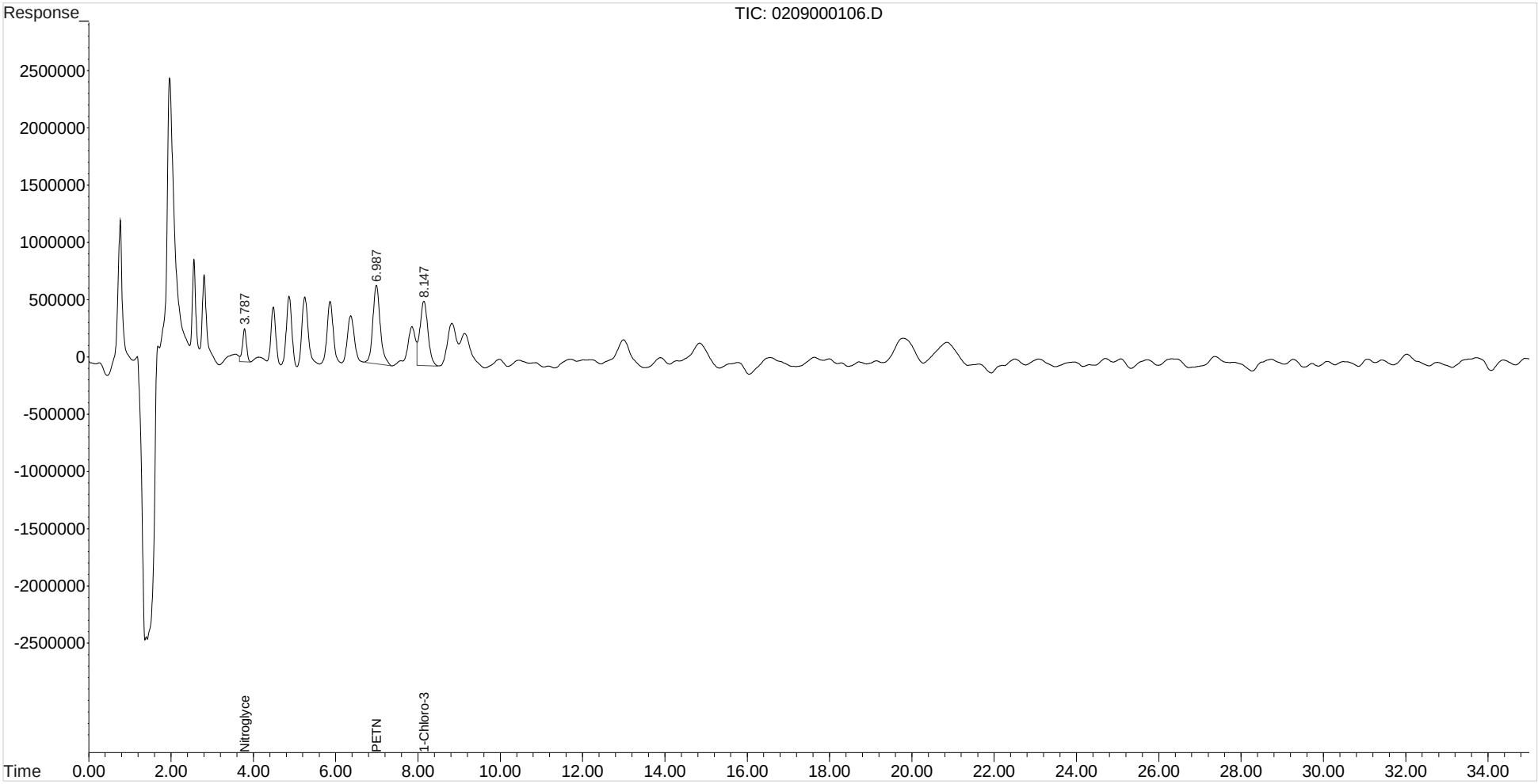
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:09 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

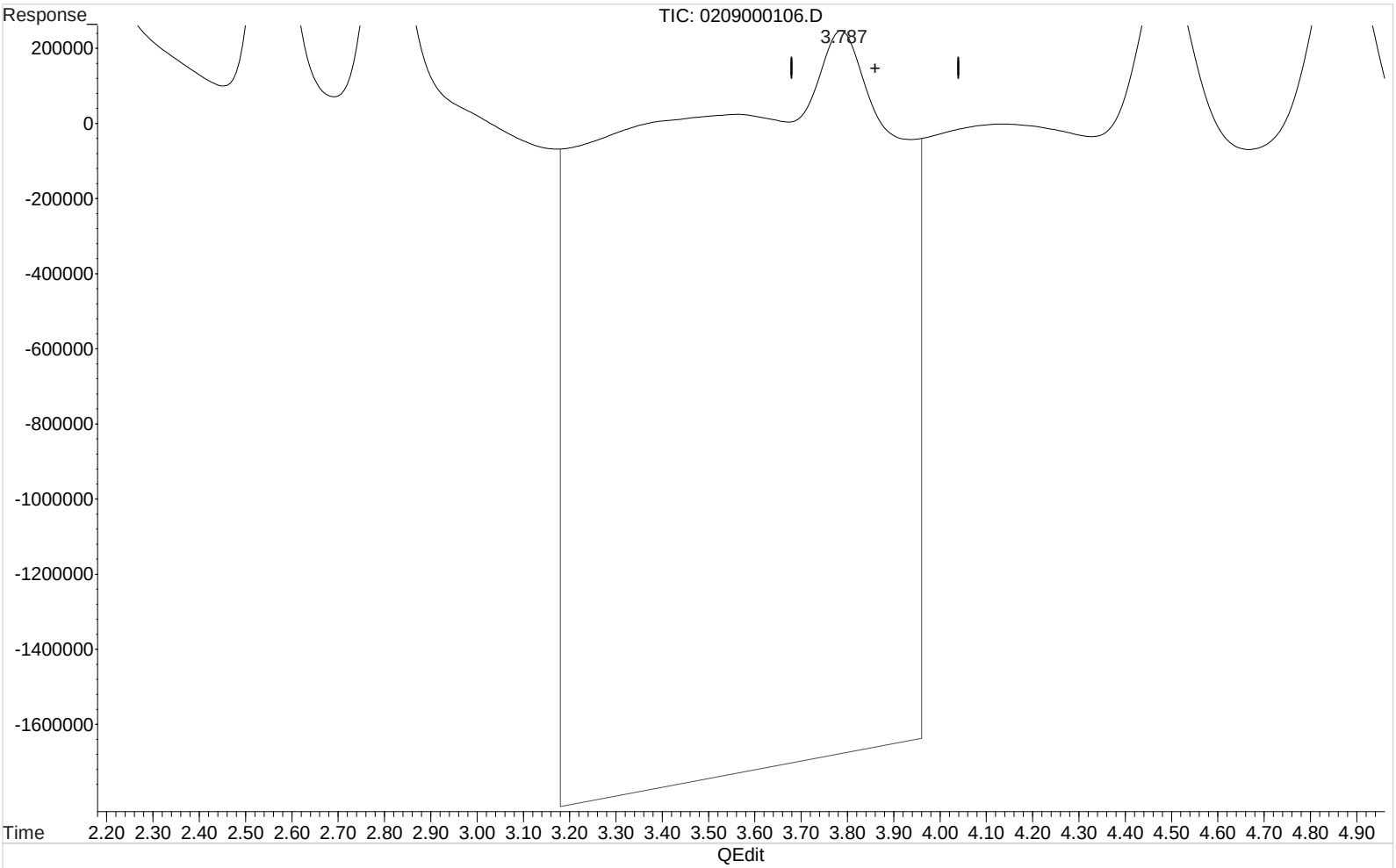


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:30:06 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.787min 3880.314 ug/L

response 81959818

Manual Integration:

Before

02/10/17

(+) = Expected Retention Time

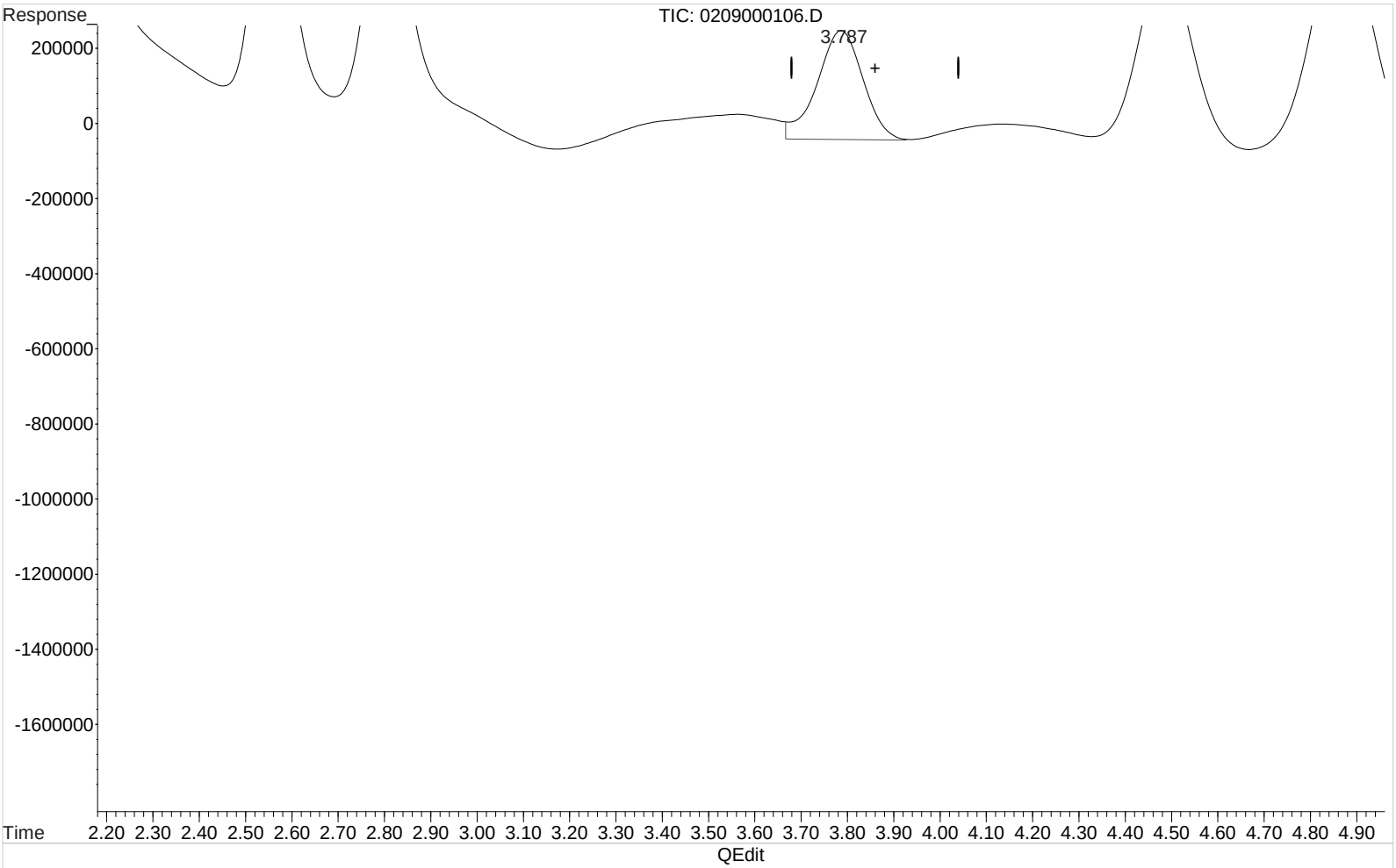
020917_Short_8330B@210.M Fri Feb 10 10:30:10 2017 Page: 1

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:30:06 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.787min 93.695 ug/L m

response 1979030

Manual Integration:

After

BLC

02/10/17

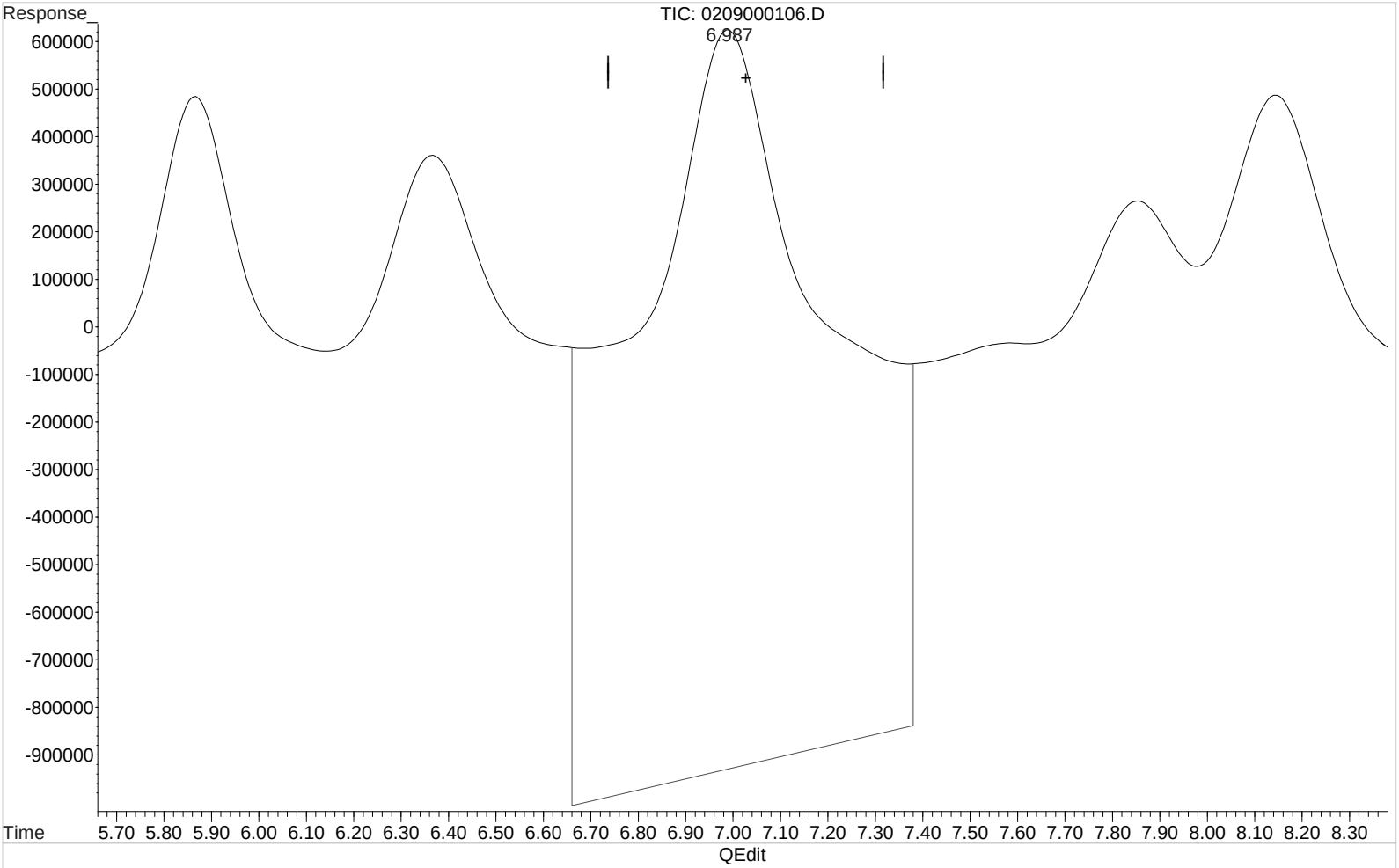
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:30:06 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.987min 555.668 ug/L

response 45763665

Manual Integration:

Before

02/10/17

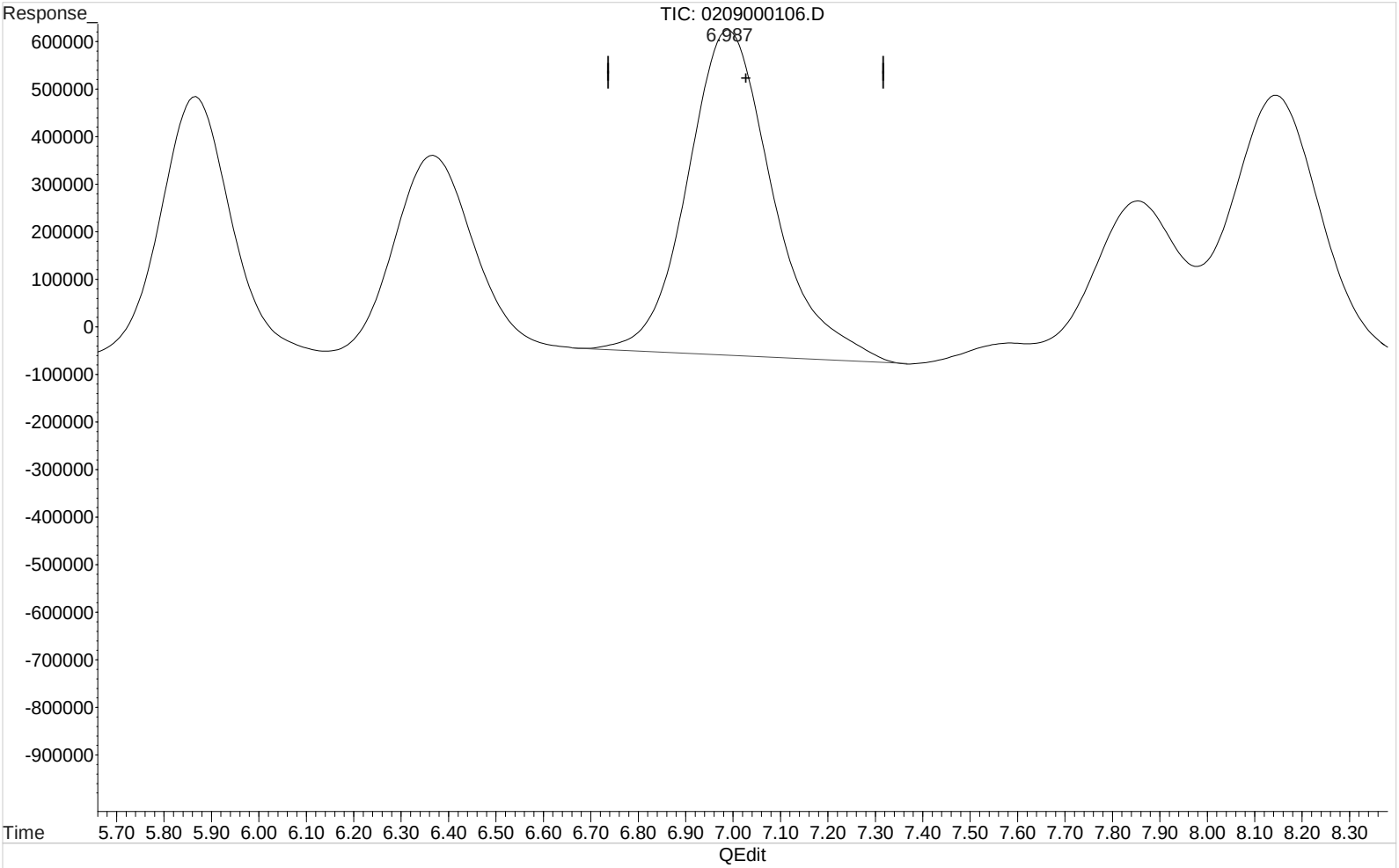
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:30:06 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.987min 103.854 ug/L m

response 8553205

Manual Integration:

After

BLC

02/10/17

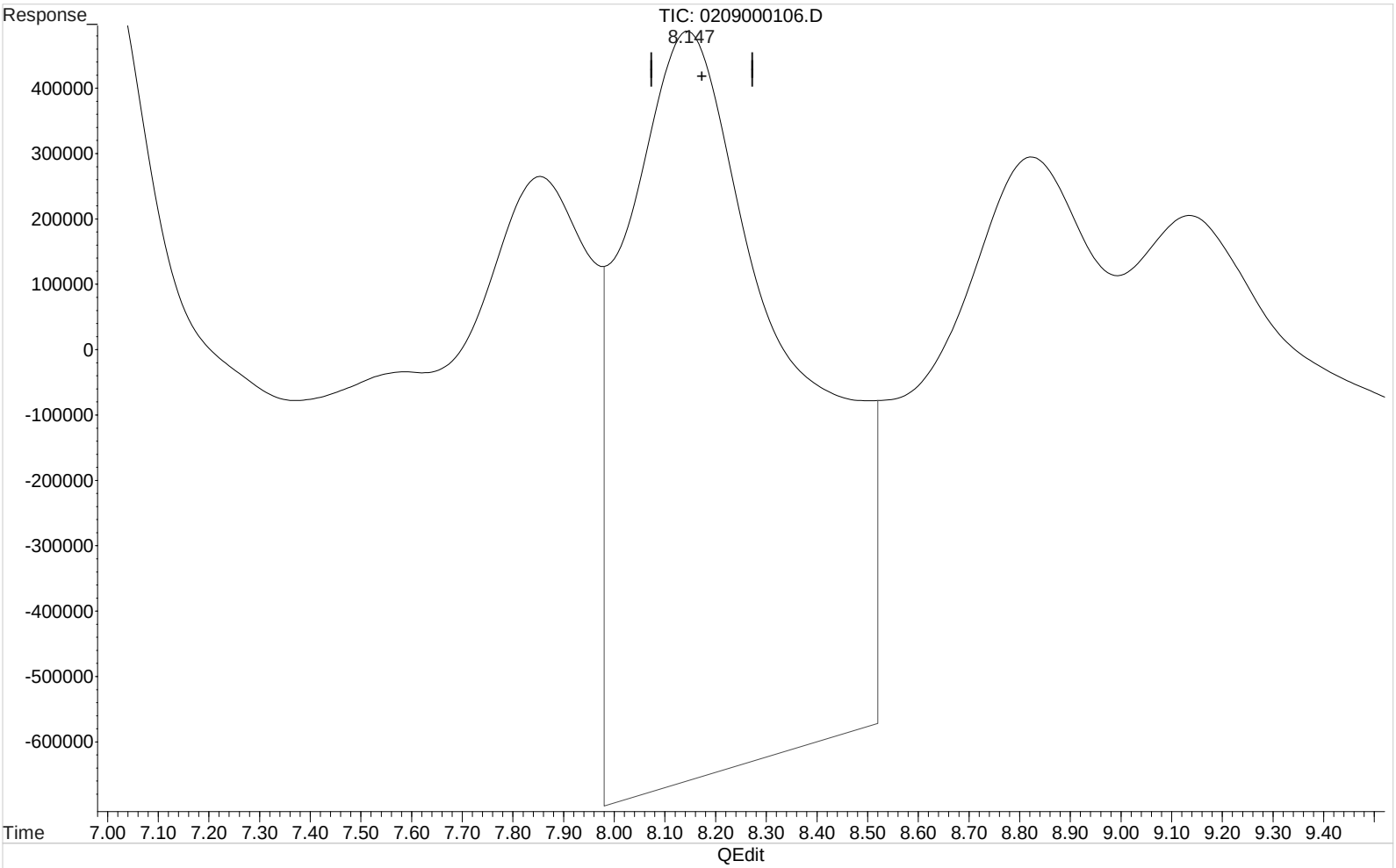
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:30:06 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

8.147min 368.214 ug/L

response 25671459

Manual Integration:

Before

02/10/17

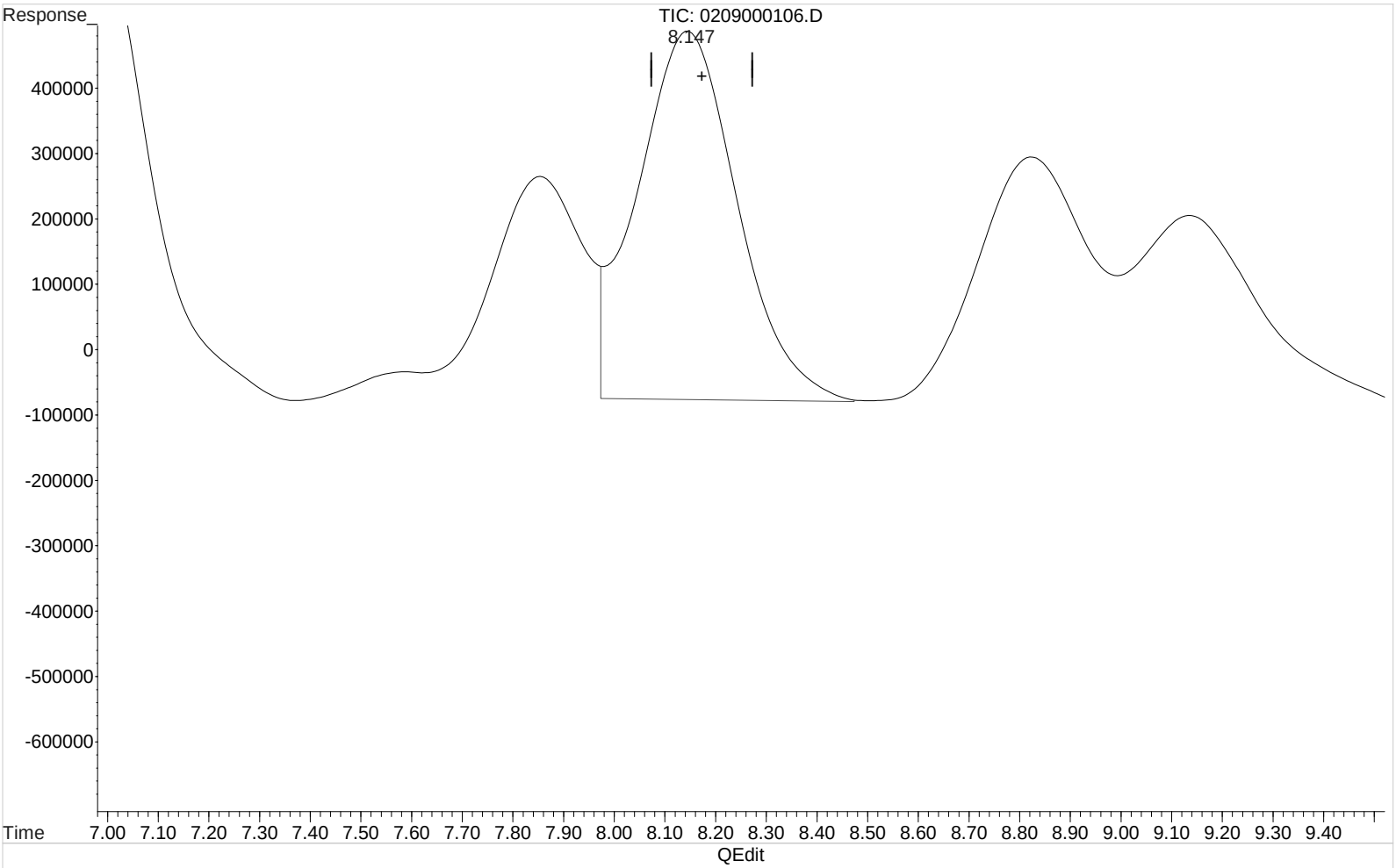
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:30:06 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.147min 110.160 ug/L m

response 7680230

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:29:46 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	8.133	13561422	193.631 ug/L m
Target Compounds				
1) T	Nitroglycerin	3.780	3978902	186.571 ug/L m
2) T	PETN	6.980	17566508	215.684 ug/L m

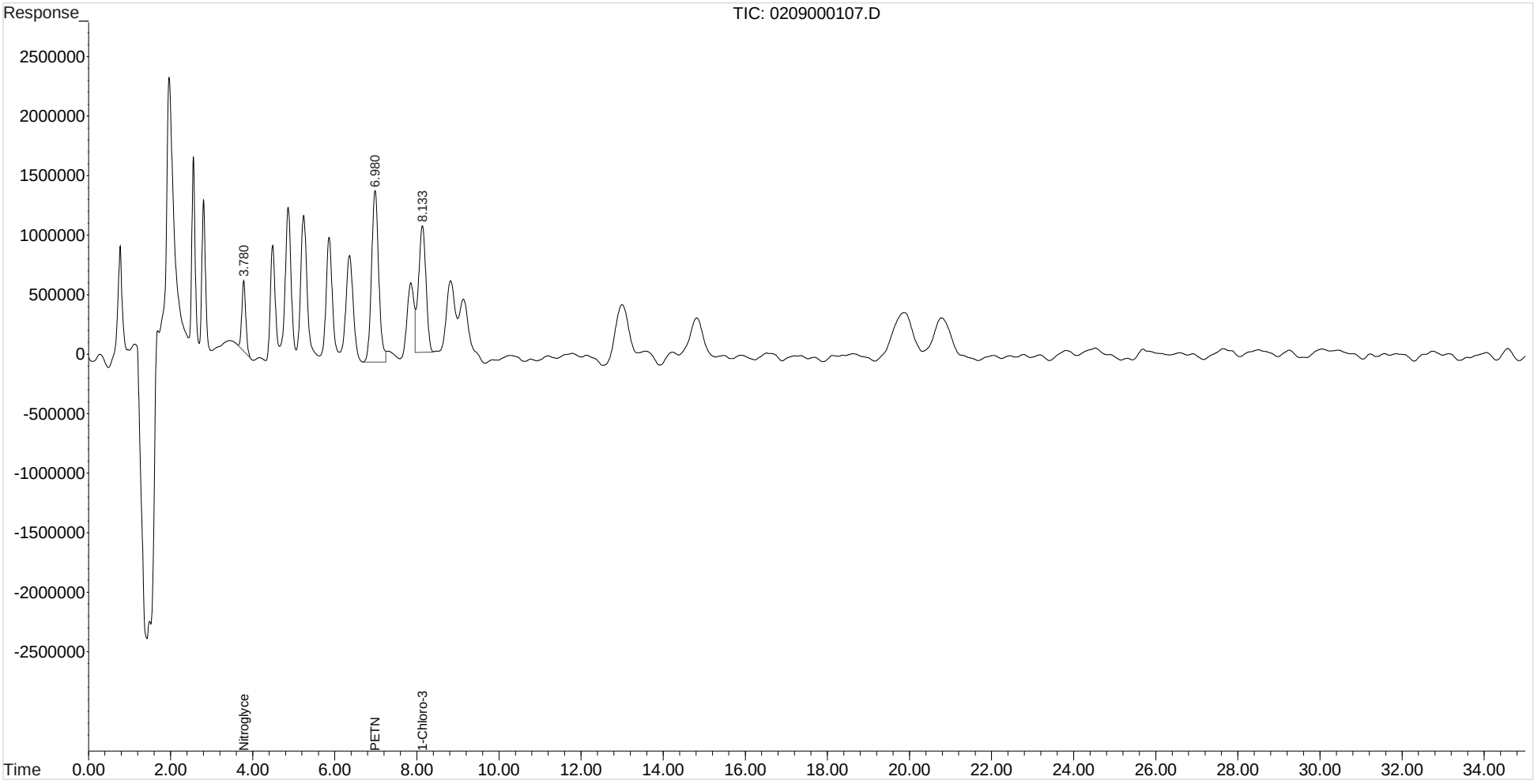
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:29:46 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

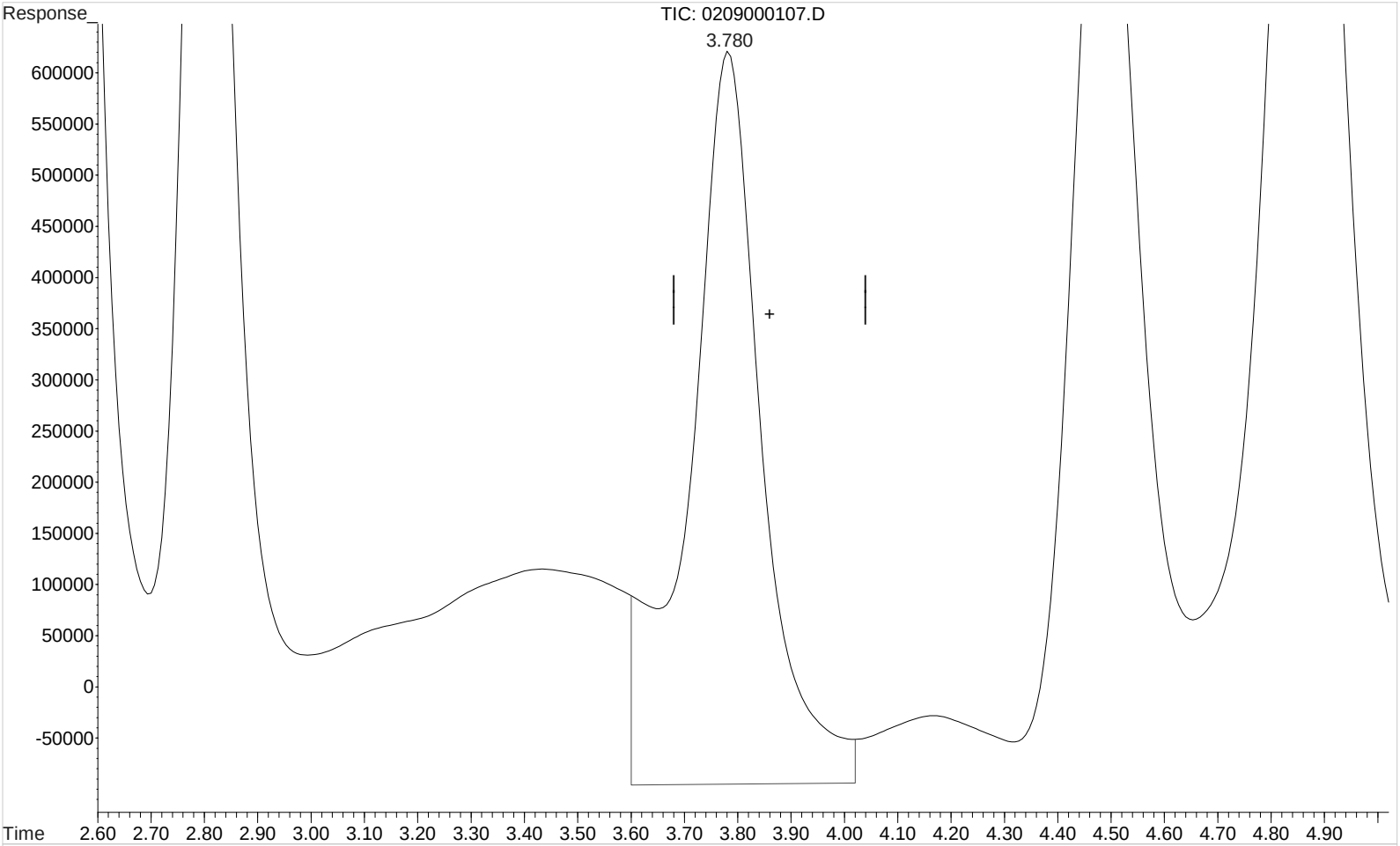


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:42 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.780min 317.059 ug/L

response 6761779

Manual Integration:

Before

02/10/17

(+) = Expected Retention Time

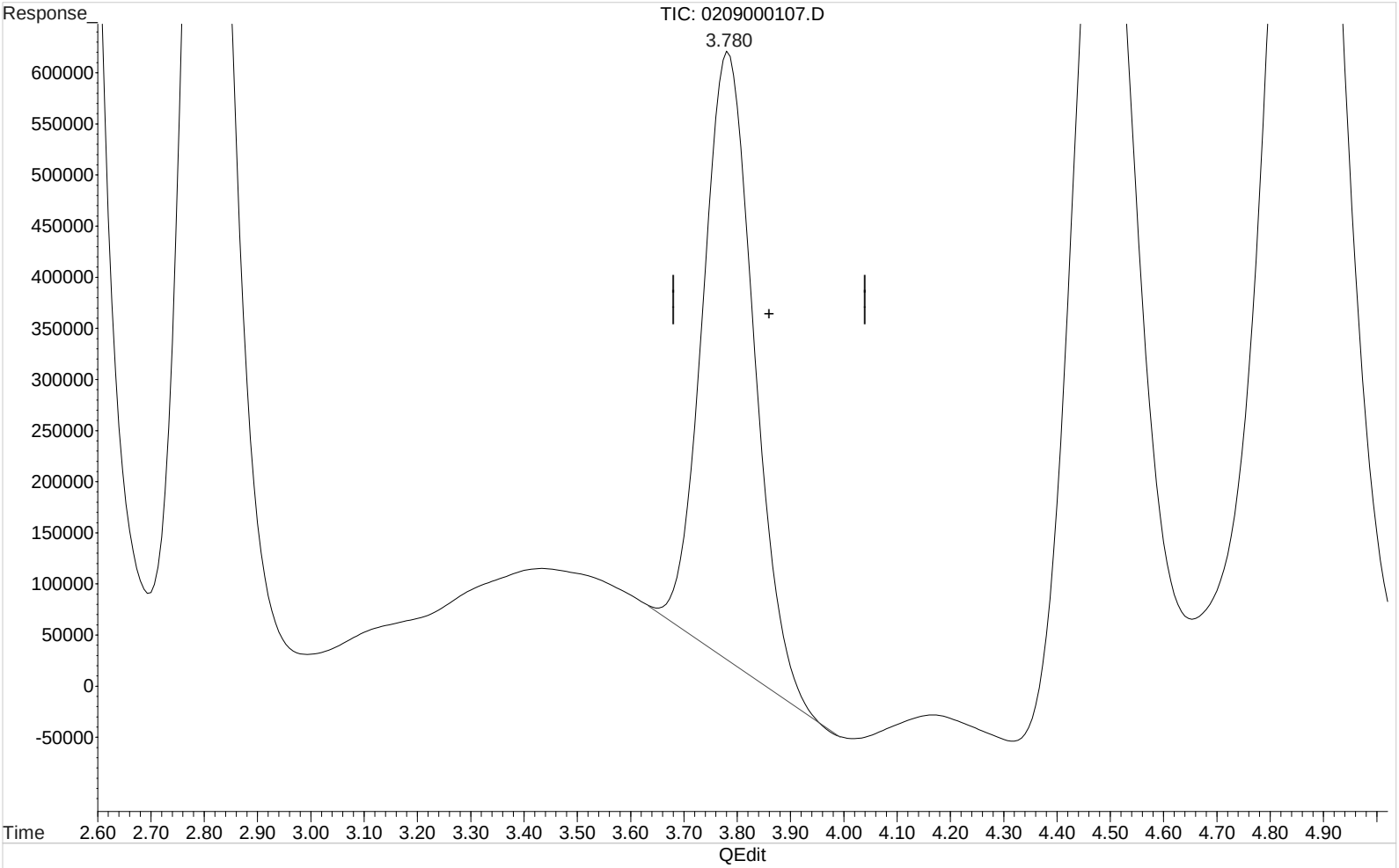
020917_Short_8330B@210.M Fri Feb 10 10:28:45 2017 Page: 1

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:42 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.780min 186.571 ug/L m

response 3978902

Manual Integration:

After

BLC

02/10/17

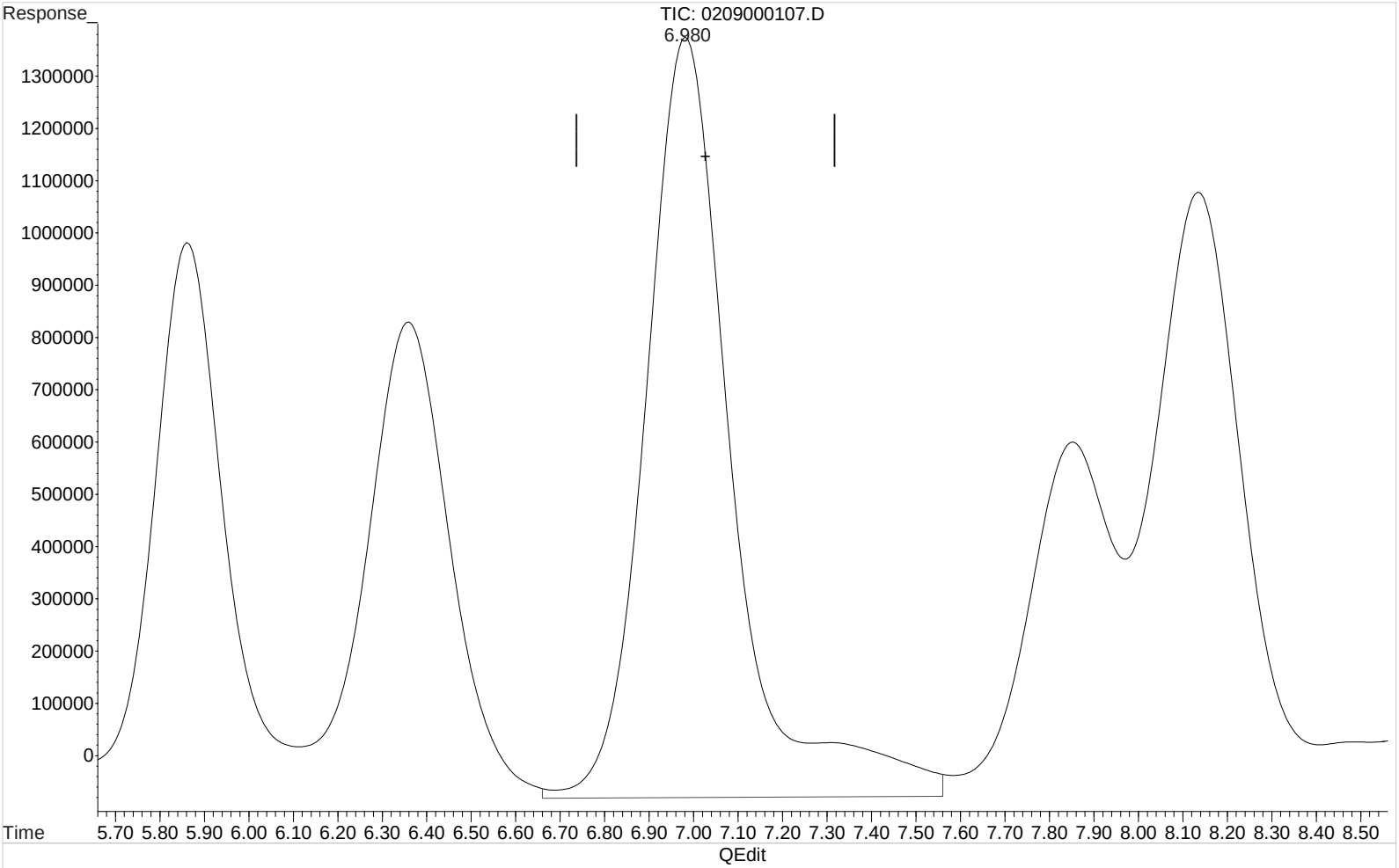
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:42 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.980min 240.910 ug/L

response 19621034

Manual Integration:

Before

02/10/17

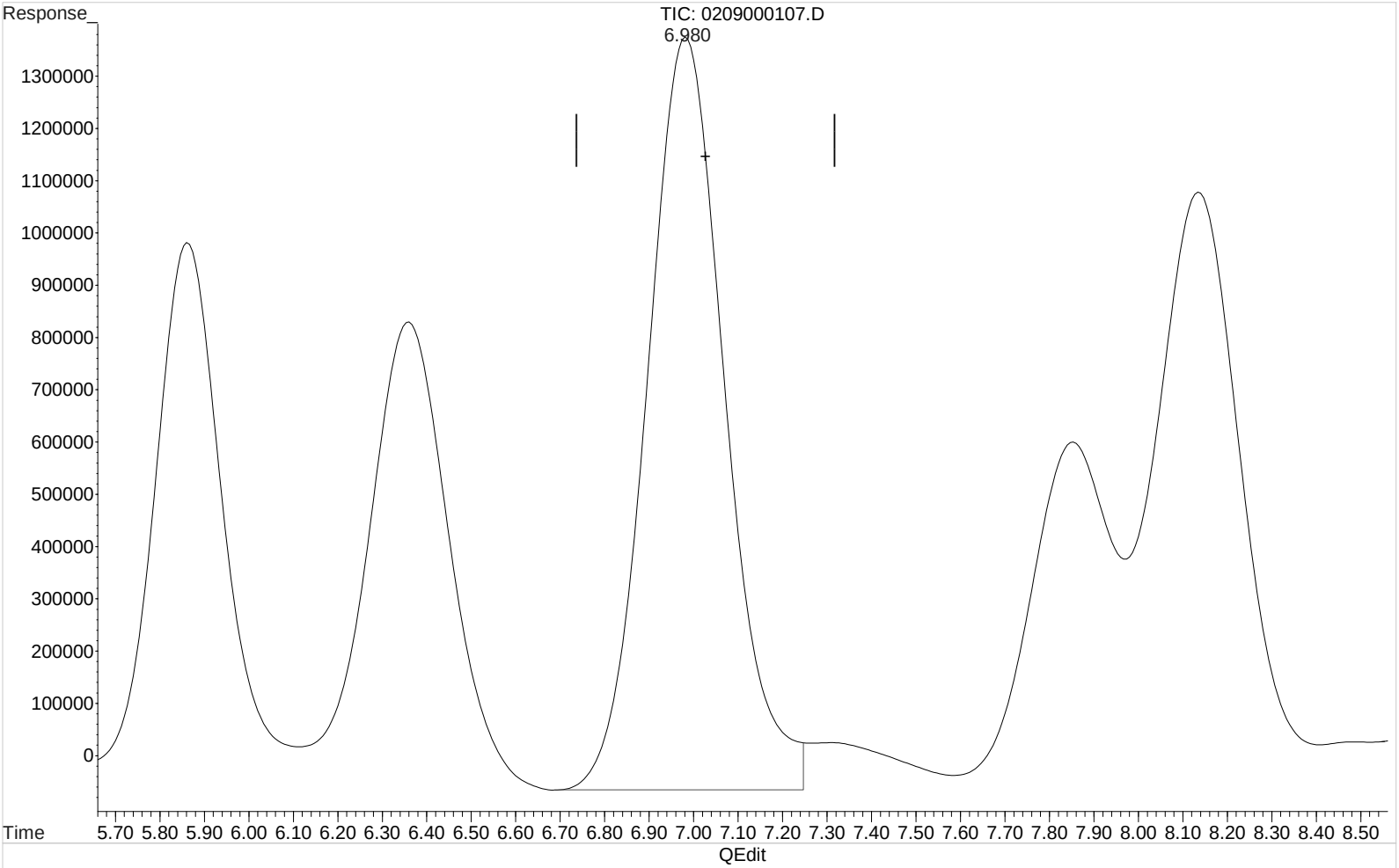
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:42 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.980min 215.684 ug/L m

response 17566508

Manual Integration:

After

BLC

02/10/17

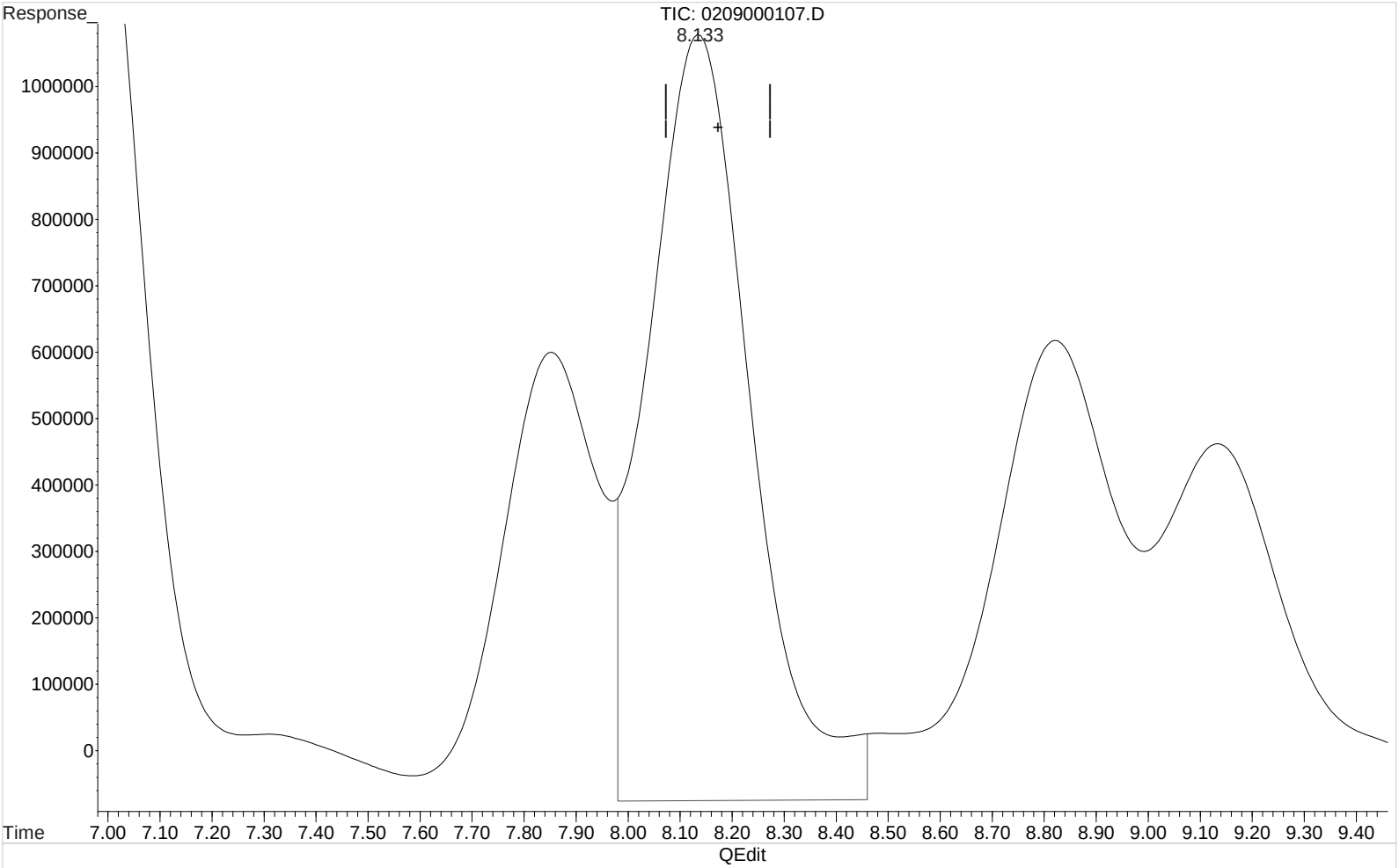
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:42 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.133min 225.281 ug/L

response 15778076

Manual Integration:

Before

02/10/17

(+) = Expected Retention Time

(b) (6)

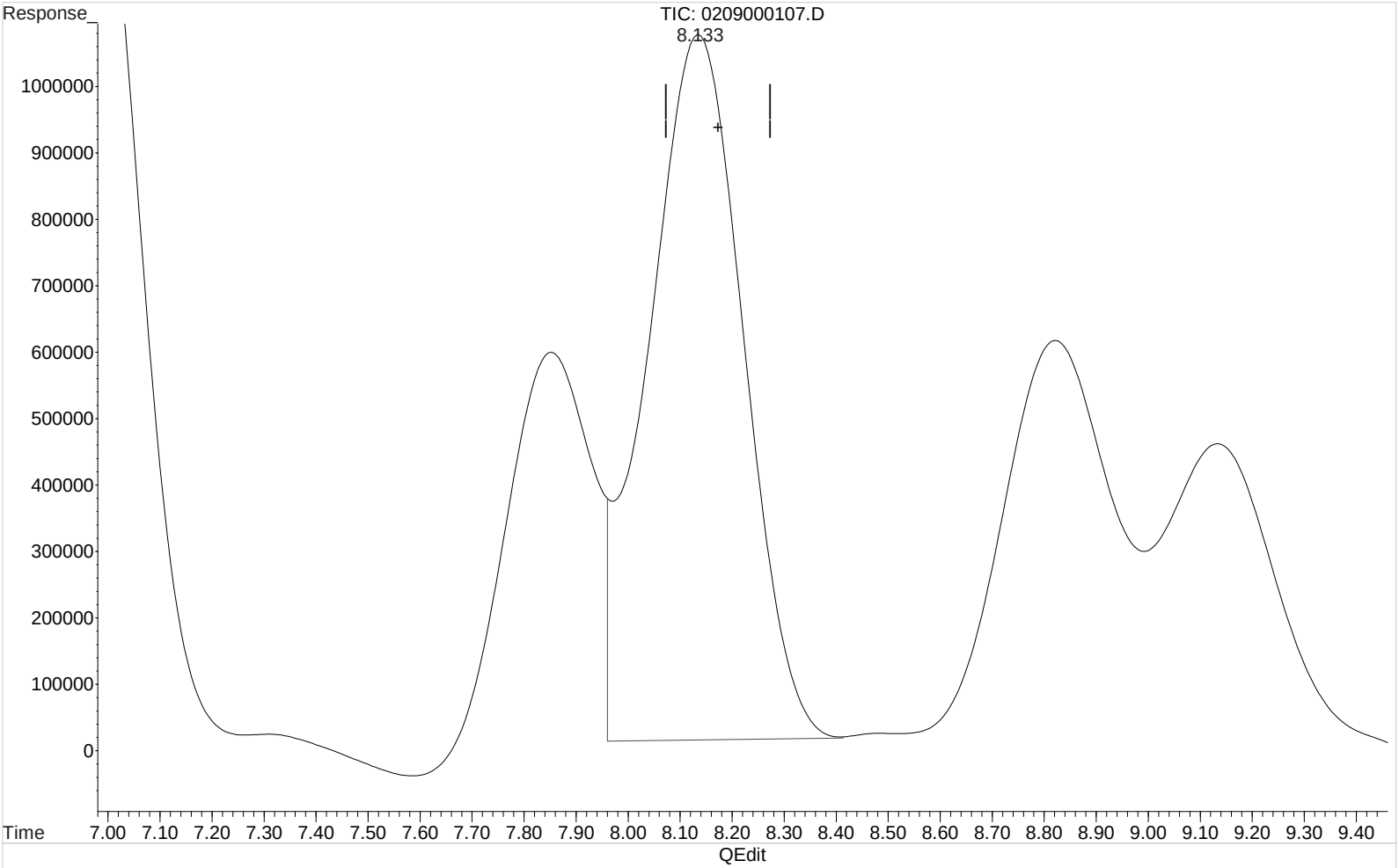
/13/17

/17/17

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:42 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

8.133min 193.631 ug/L m

response 13561422

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000108.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:14 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:27:33 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	8.153	35971989	516.422 ug/L
Target Compounds				
1) T	Nitroglycerin	3.800	11272556	534.680 ug/L m
2) T	PETN	6.993	42145946	521.117 ug/L m

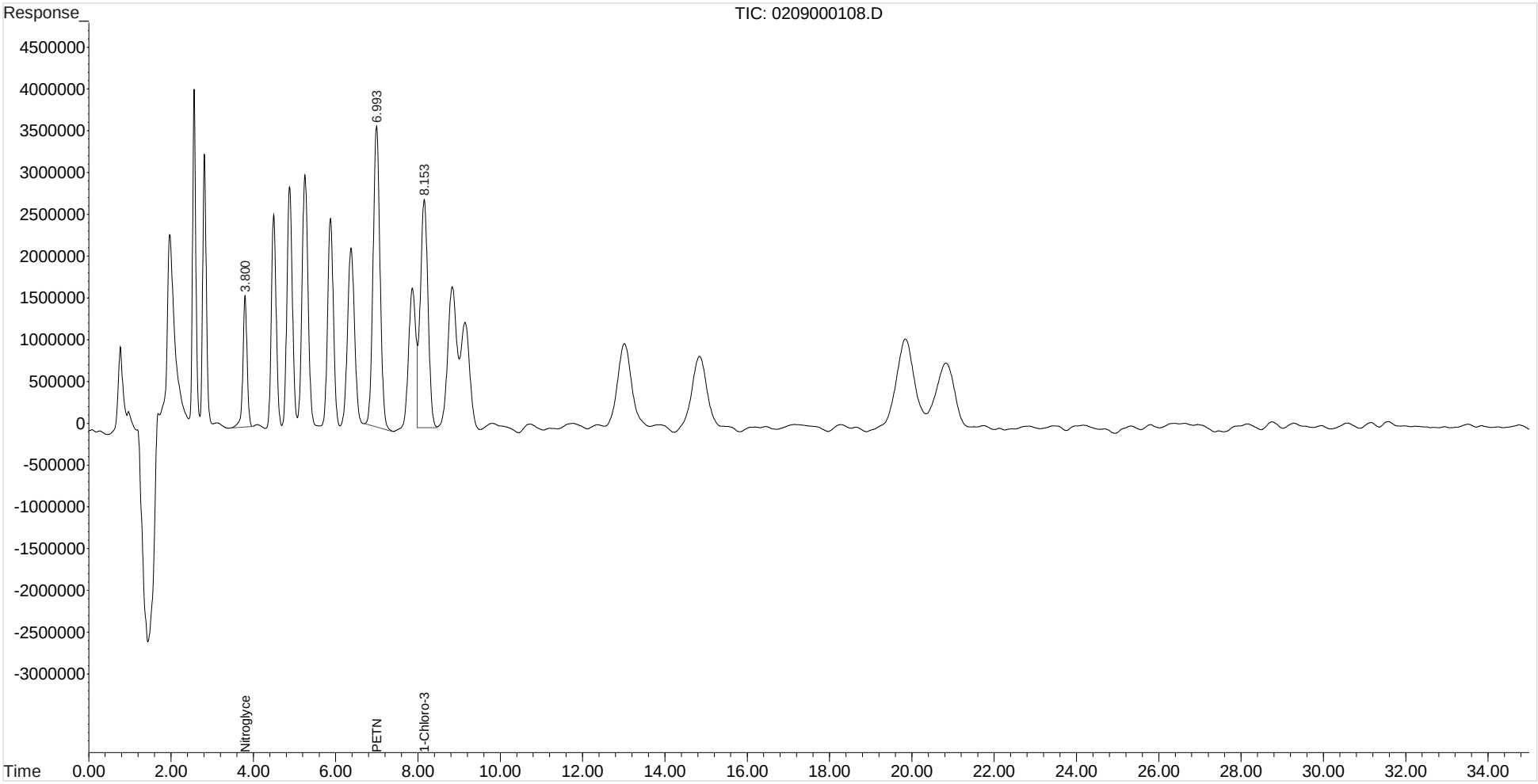
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000108.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:14 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:27:33 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

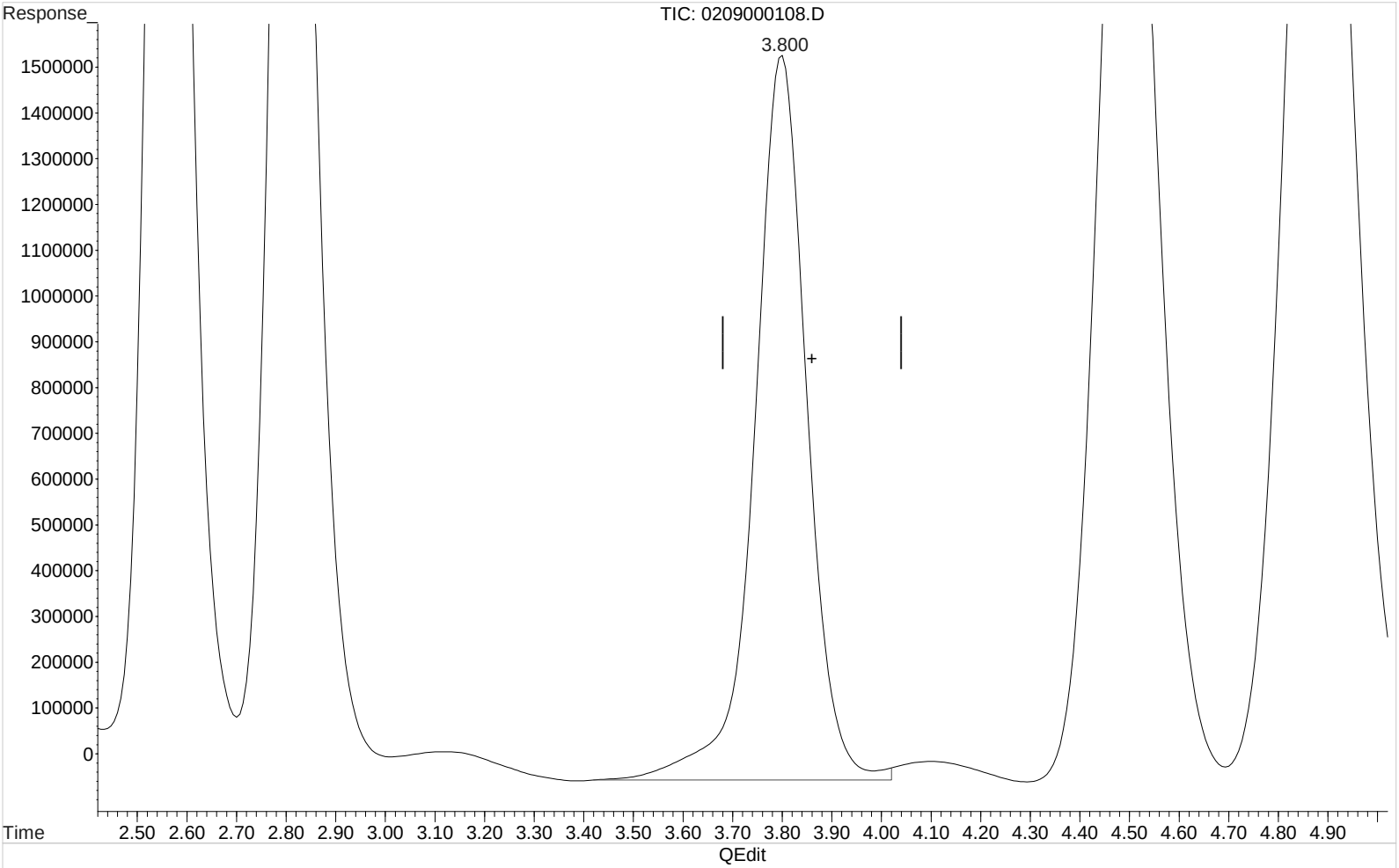


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000108.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:43 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:27:33 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.800min 552.022 ug/L

response 11638168

Manual Integration:

Before

02/10/17

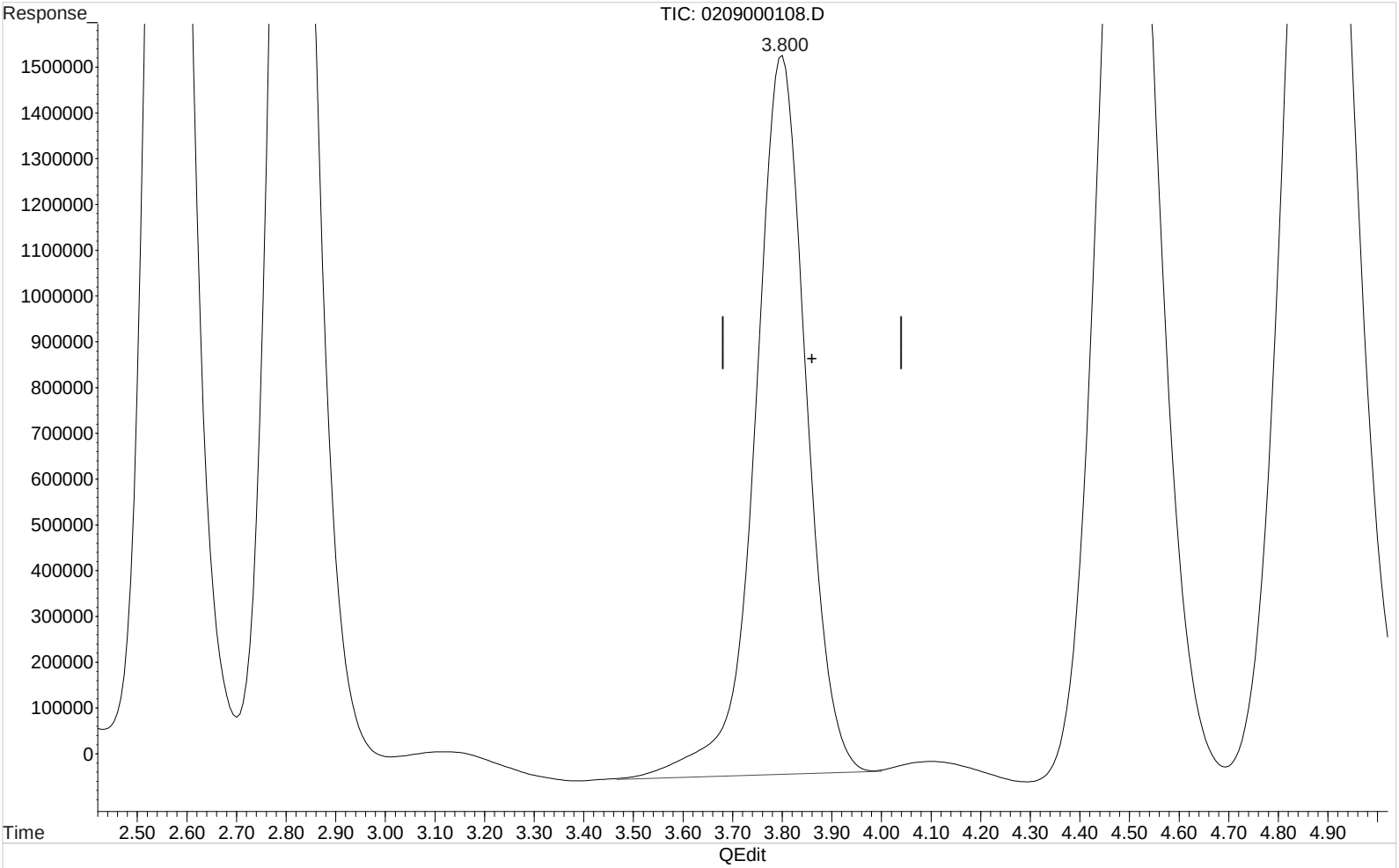
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000108.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:43 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:27:33 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.800min 534.680 ug/L m

response 11272556

Manual Integration:

After

BLC

02/10/17

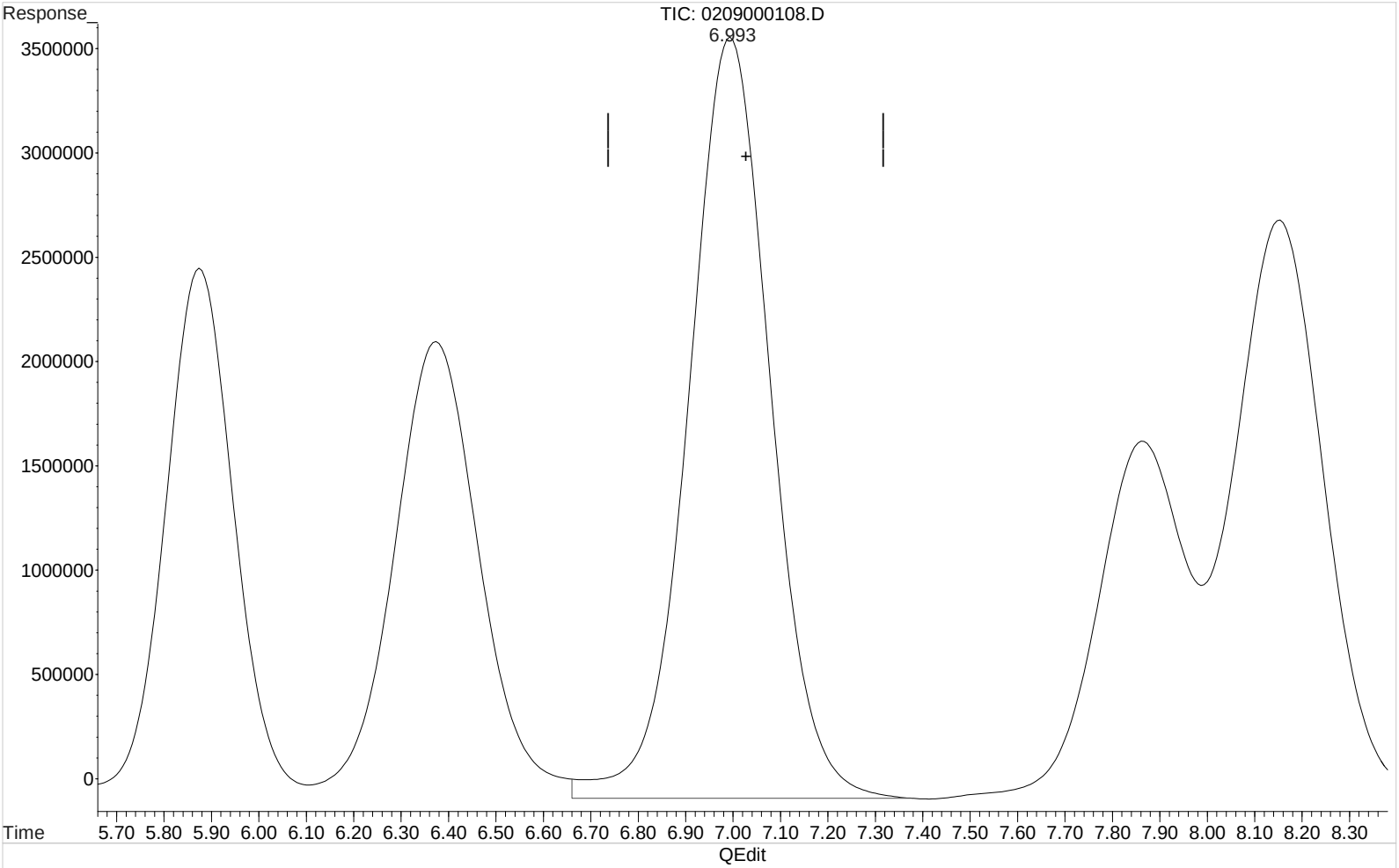
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000108.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:43 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:27:33 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.993min 544.802 ug/L

response 44061458

Manual Integration:

Before

02/10/17

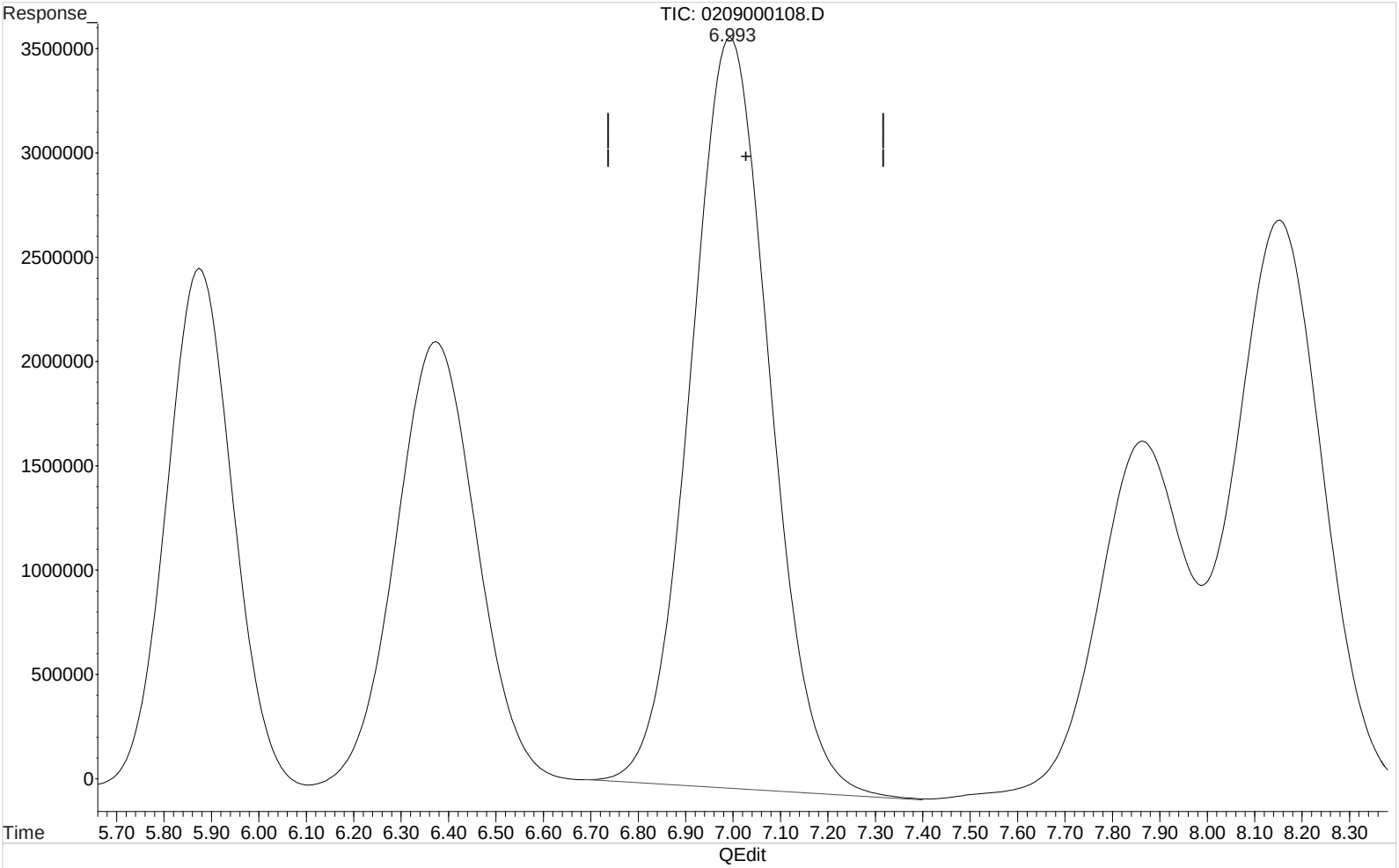
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000108.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:43 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:27:33 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.993min 521.117 ug/L m

response 42145946

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:23 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:26:45 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
3) S	1-Chloro-3-Nitrobenzene	8.140	69921036	1004.758	ug/L	
	Target Compounds					
1) T	Nitroglycerin	3.793	21356542	1016.282	ug/L	m
2) T	PETN	6.987	82490148	1025.070	ug/L	m

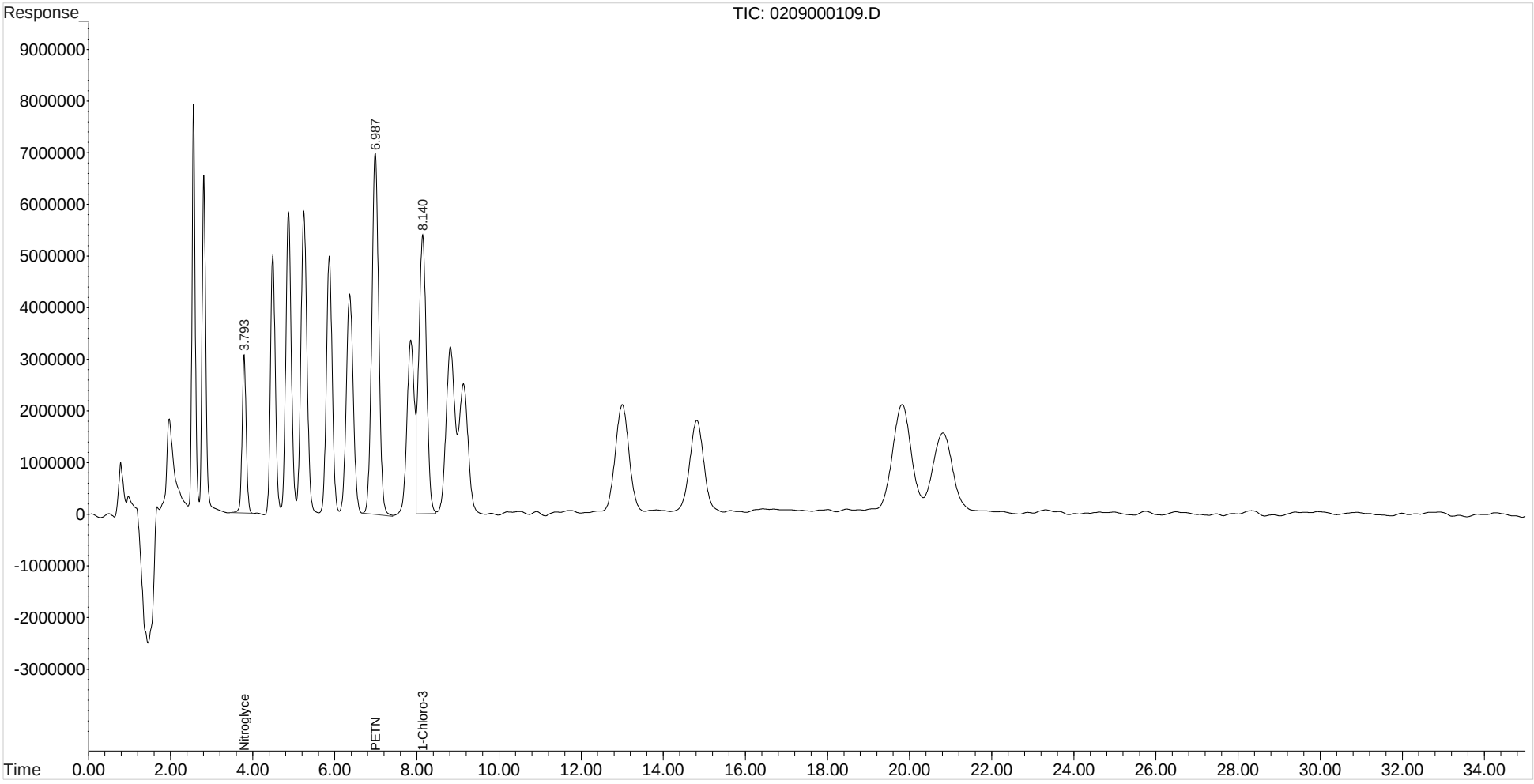
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:23 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:26:45 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(b) (6)

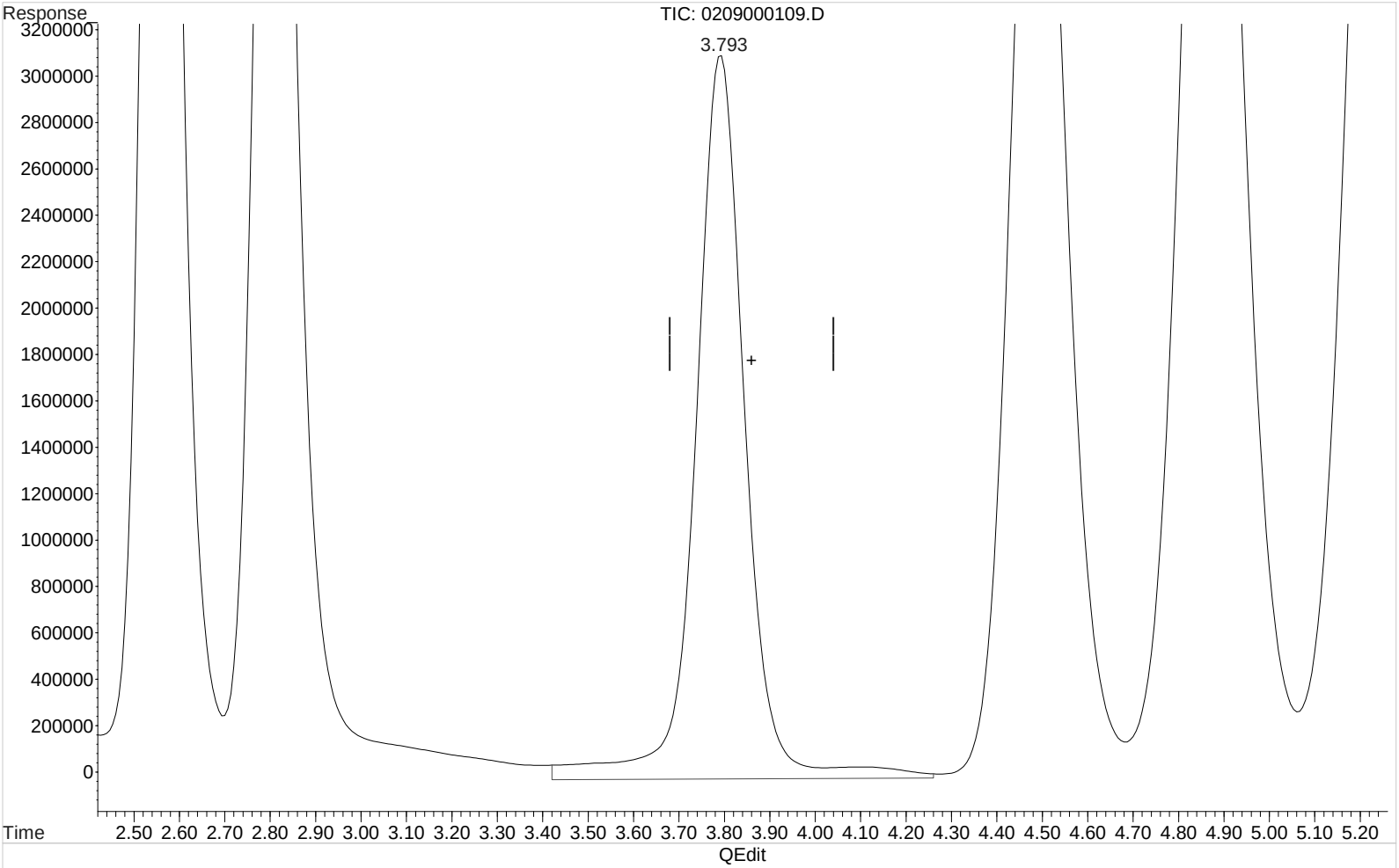
2/13/17

2/17/17

Data File : J:\LC08\Data\020917XC-210\0209000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:01 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:26:45 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.793min 1137.163 ug/L

response 23896782

Manual Integration:

Before

02/10/17

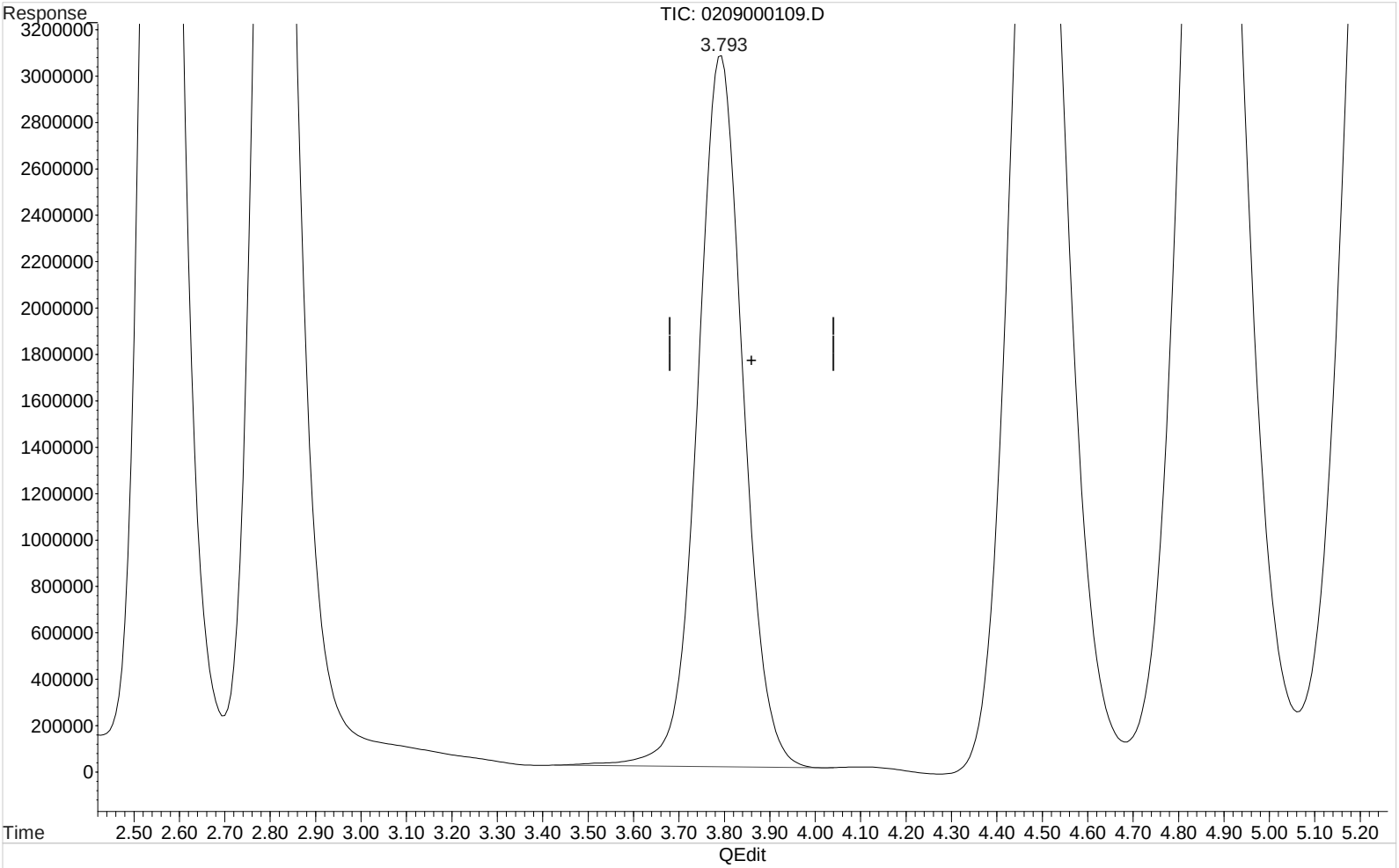
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:01 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:26:45 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.793min 1016.282 ug/L m

response 21356542

Manual Integration:

After

BLC

02/10/17

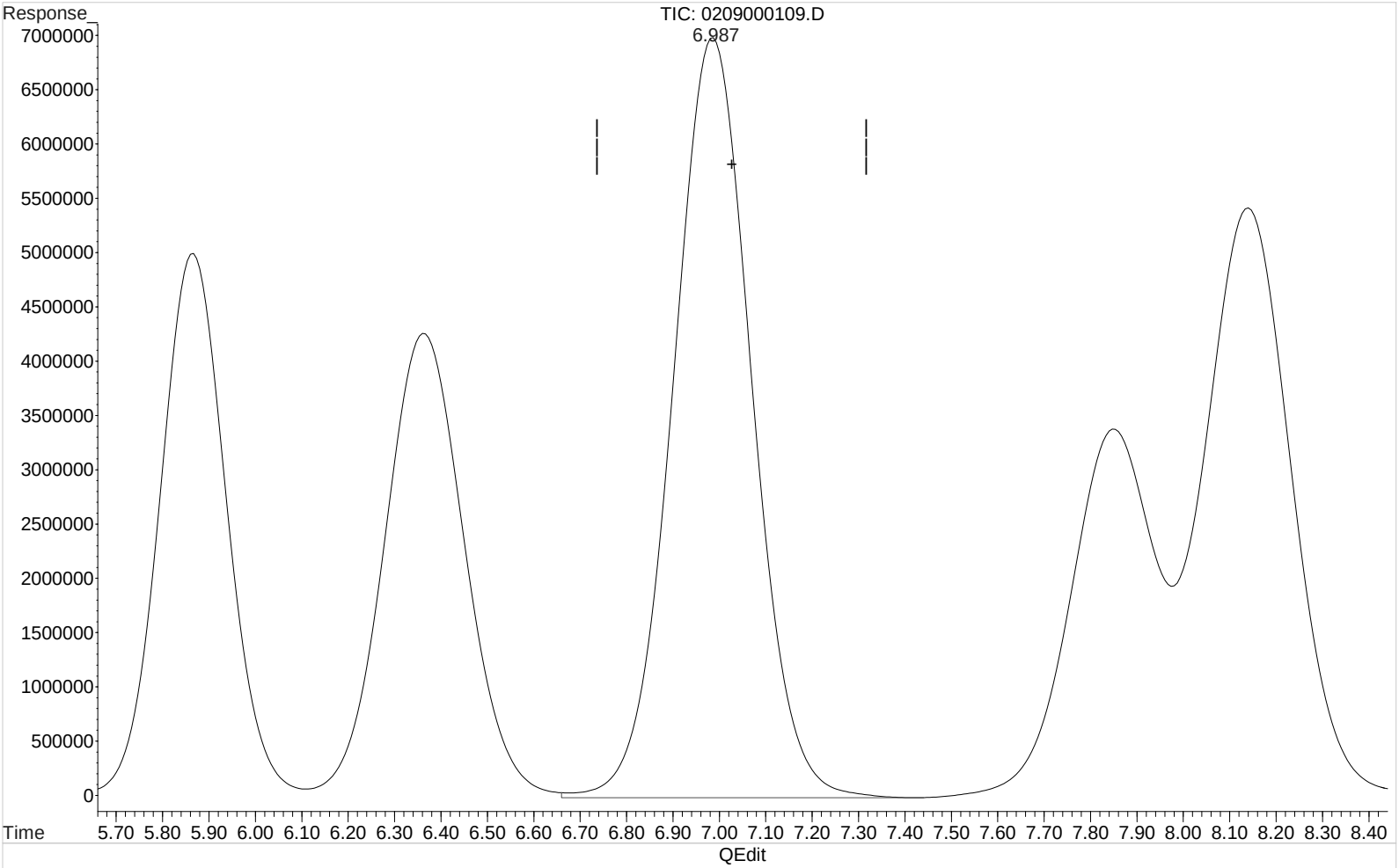
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:01 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:26:45 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.987min 1031.524 ug/L

response 83009500

Manual Integration:

Before

02/10/17

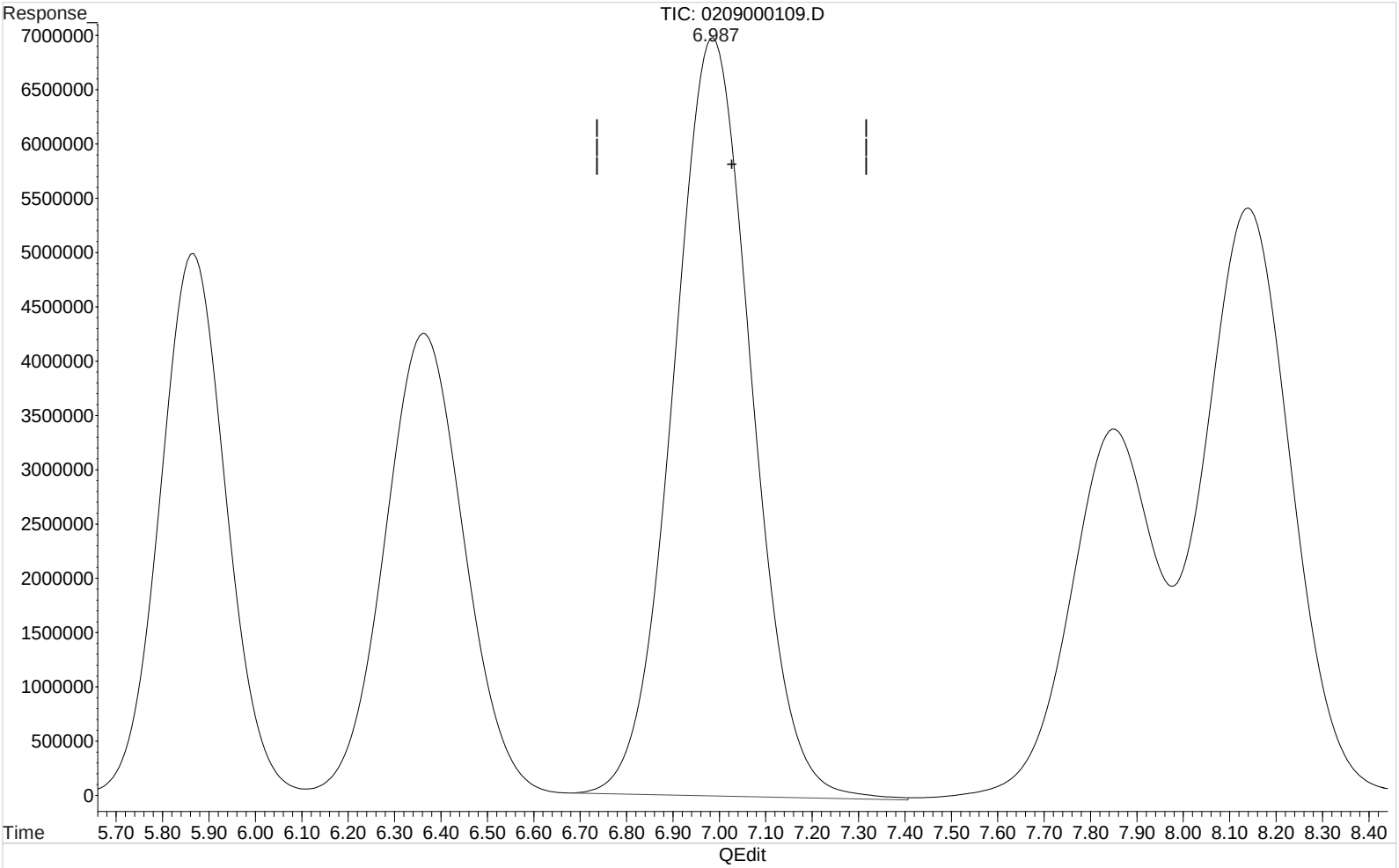
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:01 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:26:45 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.987min 1025.070 ug/L m

response 82490148

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:26:26 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	8.140	139414192	2004.492	ug/L	m
Target Compounds						
1) T	Nitroglycerin	3.793	42551590	2033.310	ug/L	m
2) T	PETN	6.987	162597336	2027.466	ug/L	m

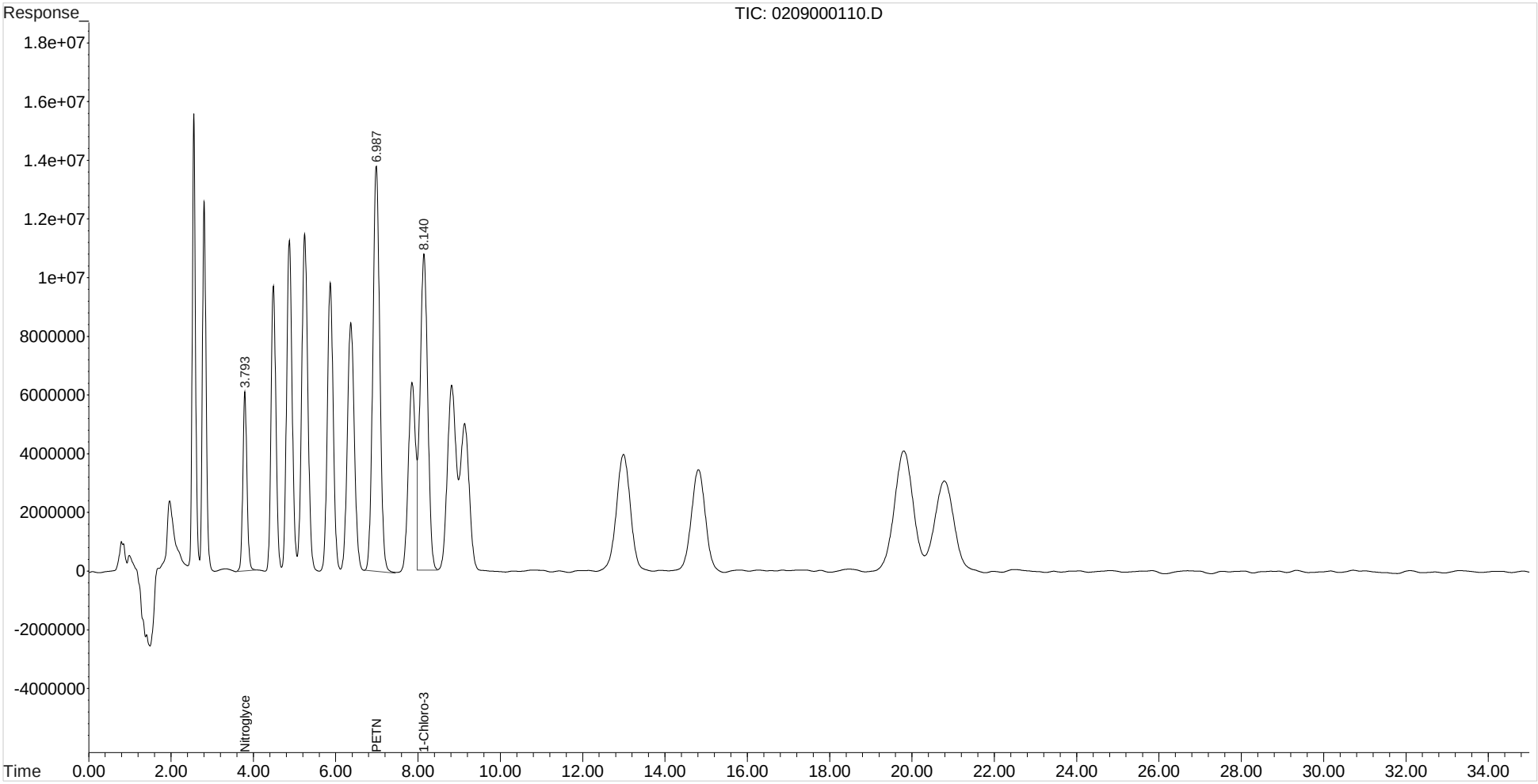
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:26:26 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

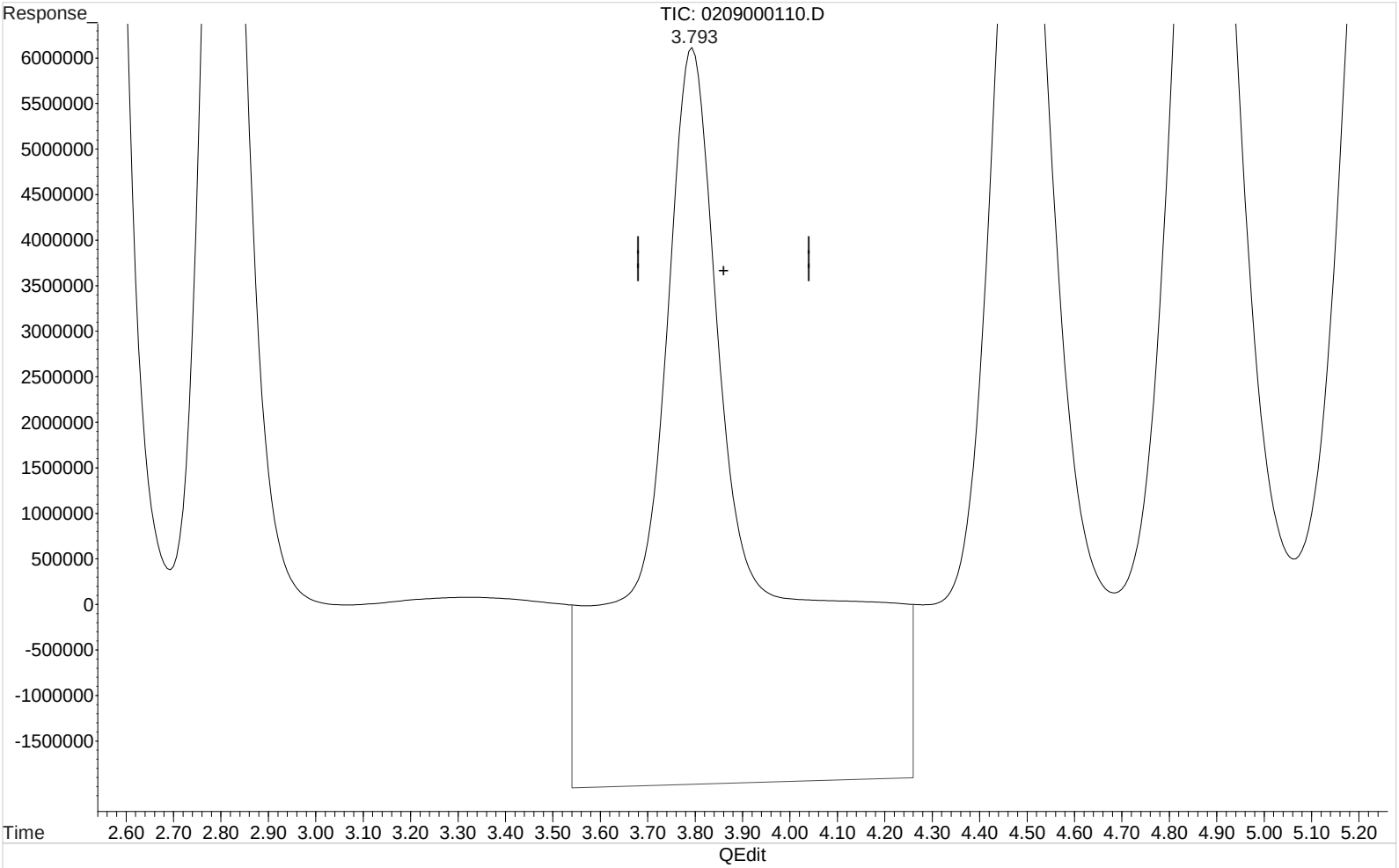


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:58 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.793min 6103.062 ug/L

response 127720293

Manual Integration:

Before

02/10/17

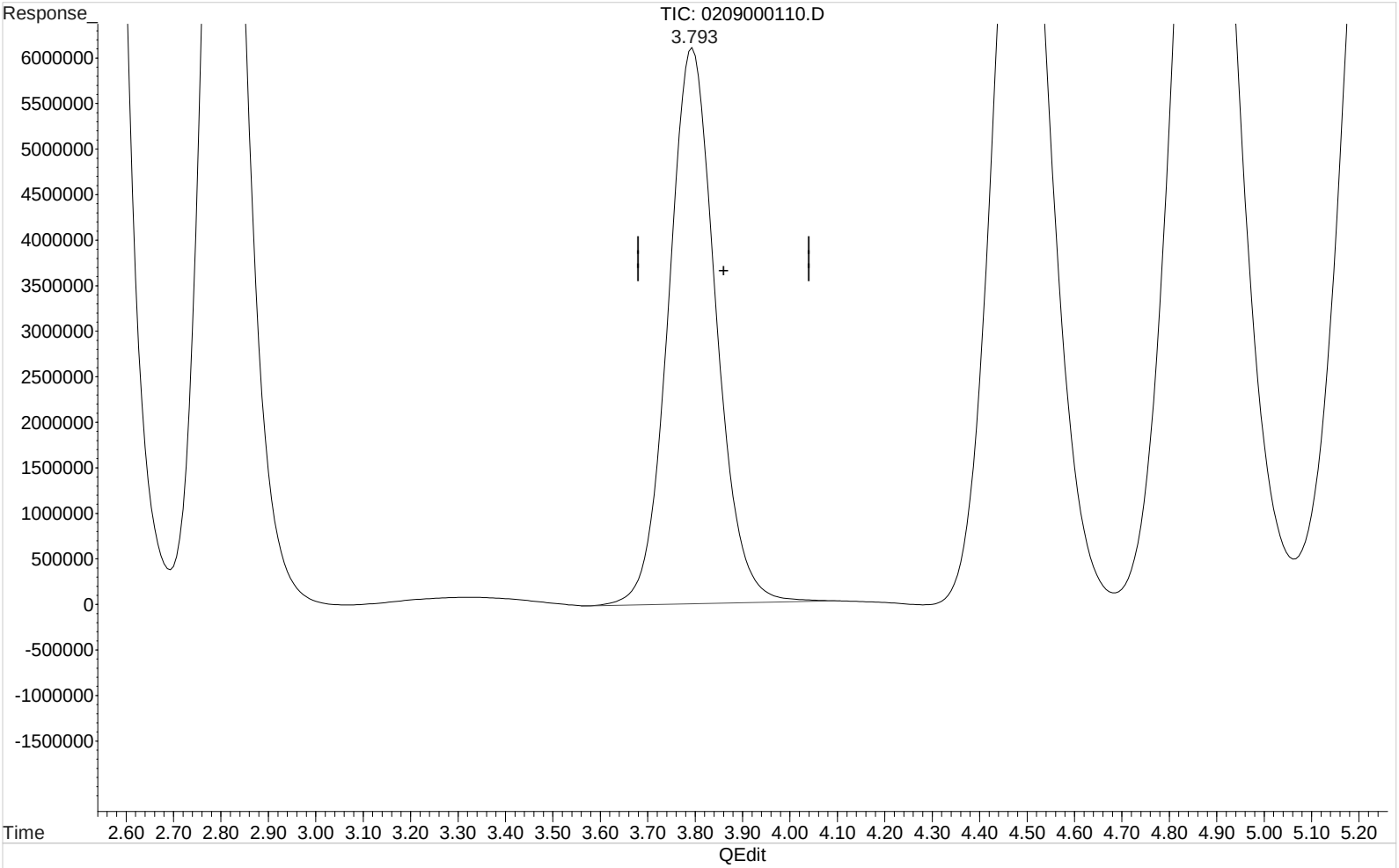
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:58 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.793min 2033.310 ug/L m

response 42551590

Manual Integration:

After

BLC

02/10/17

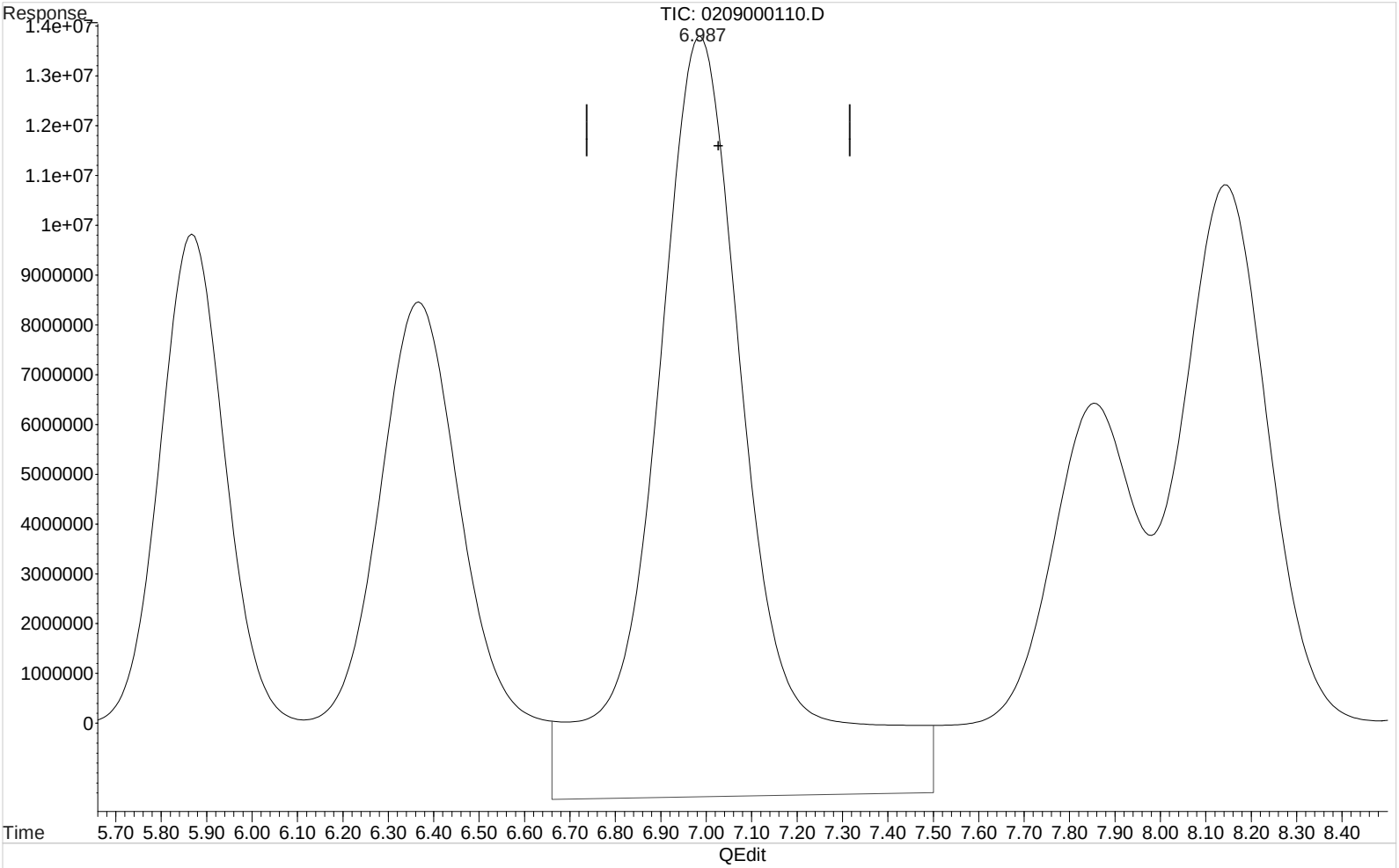
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:58 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.987min 2934.380 ug/L

response 235329399

Manual Integration:

Before

02/10/17

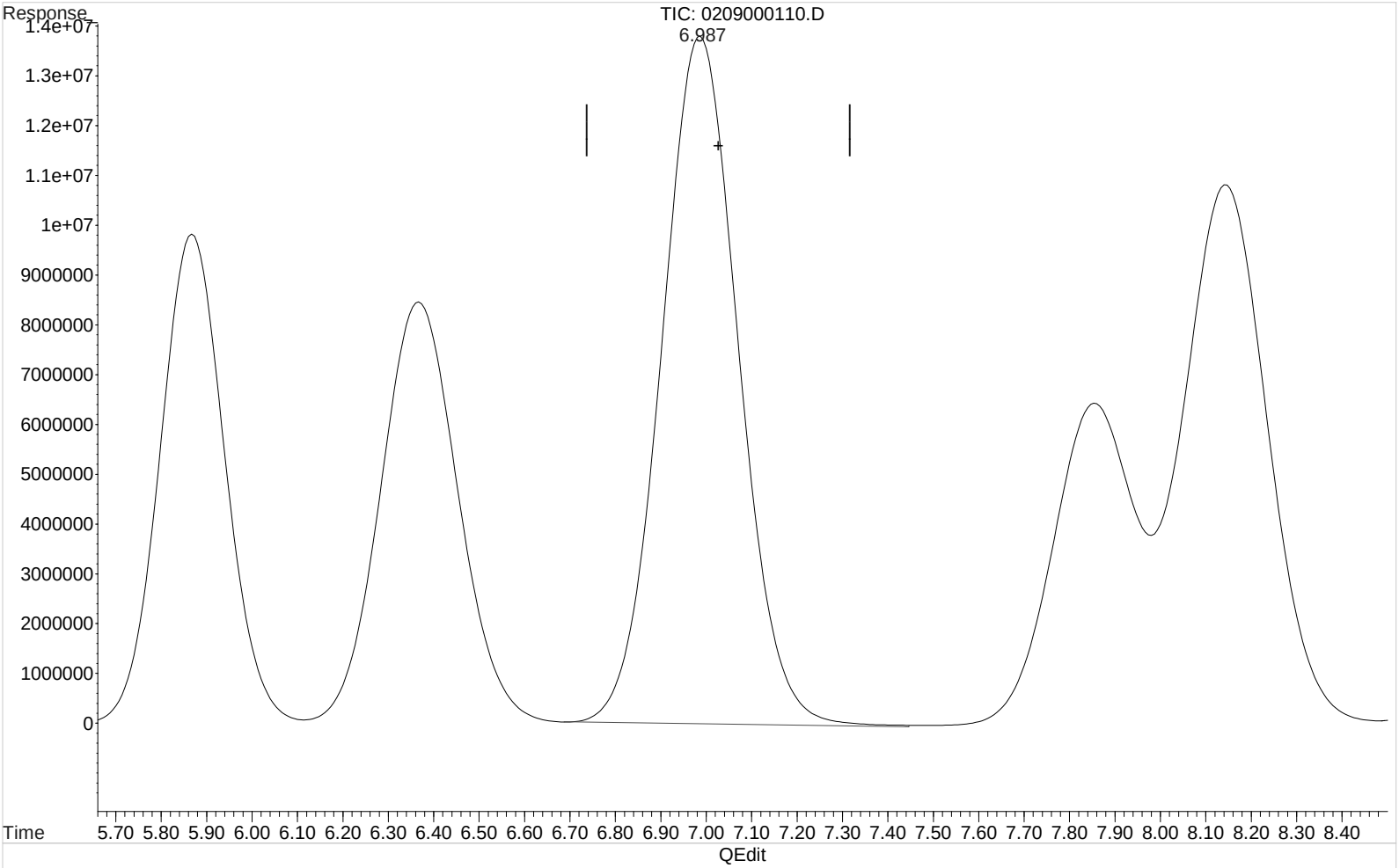
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:58 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.987min 2027.466 ug/L m

response 162597336

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

(b) (6)

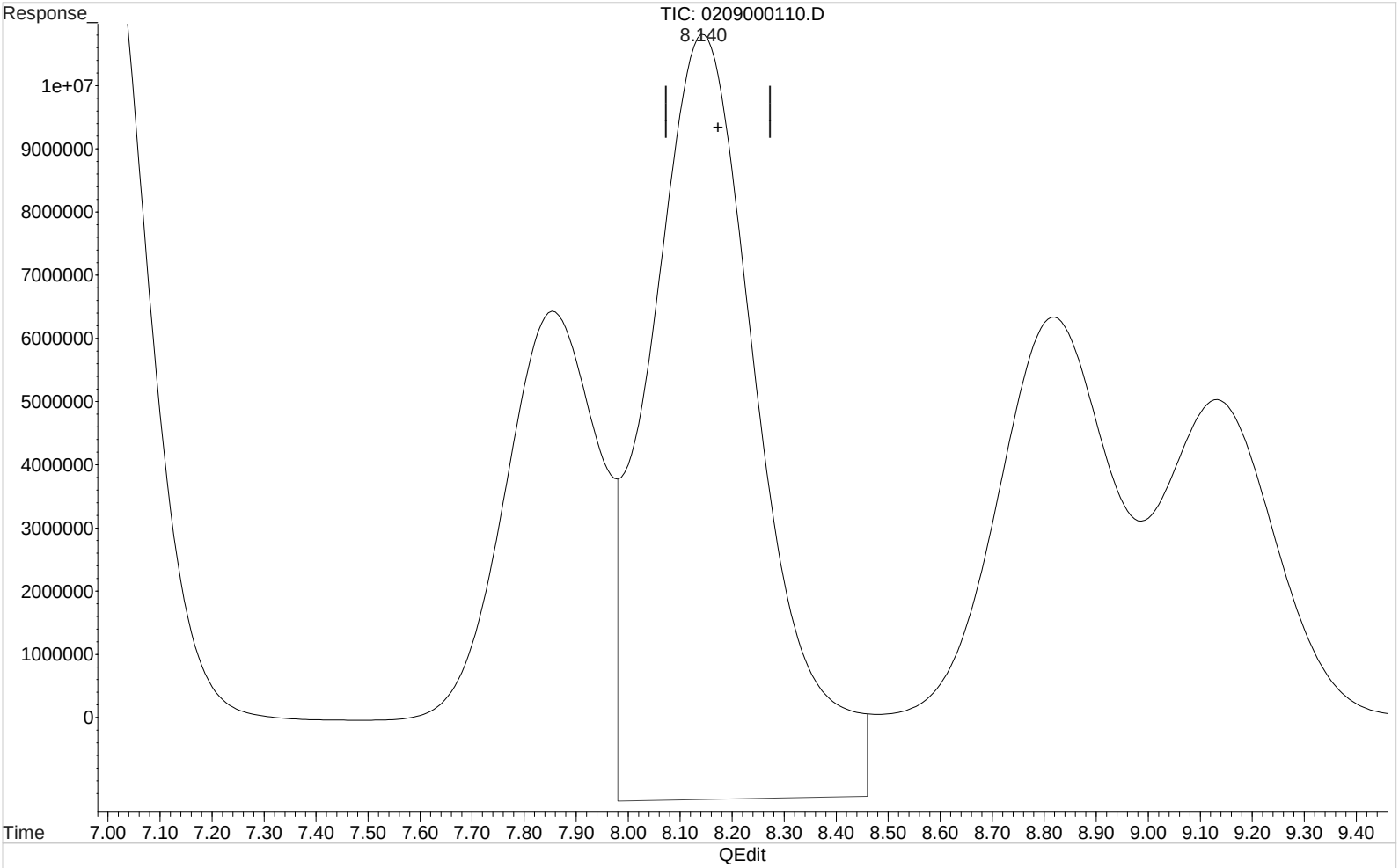
1 2/13/17

2 2/17/17

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:58 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.140min 2549.905 ug/L

response 177348124

Manual Integration:

Before

02/10/17

(+) = Expected Retention Time

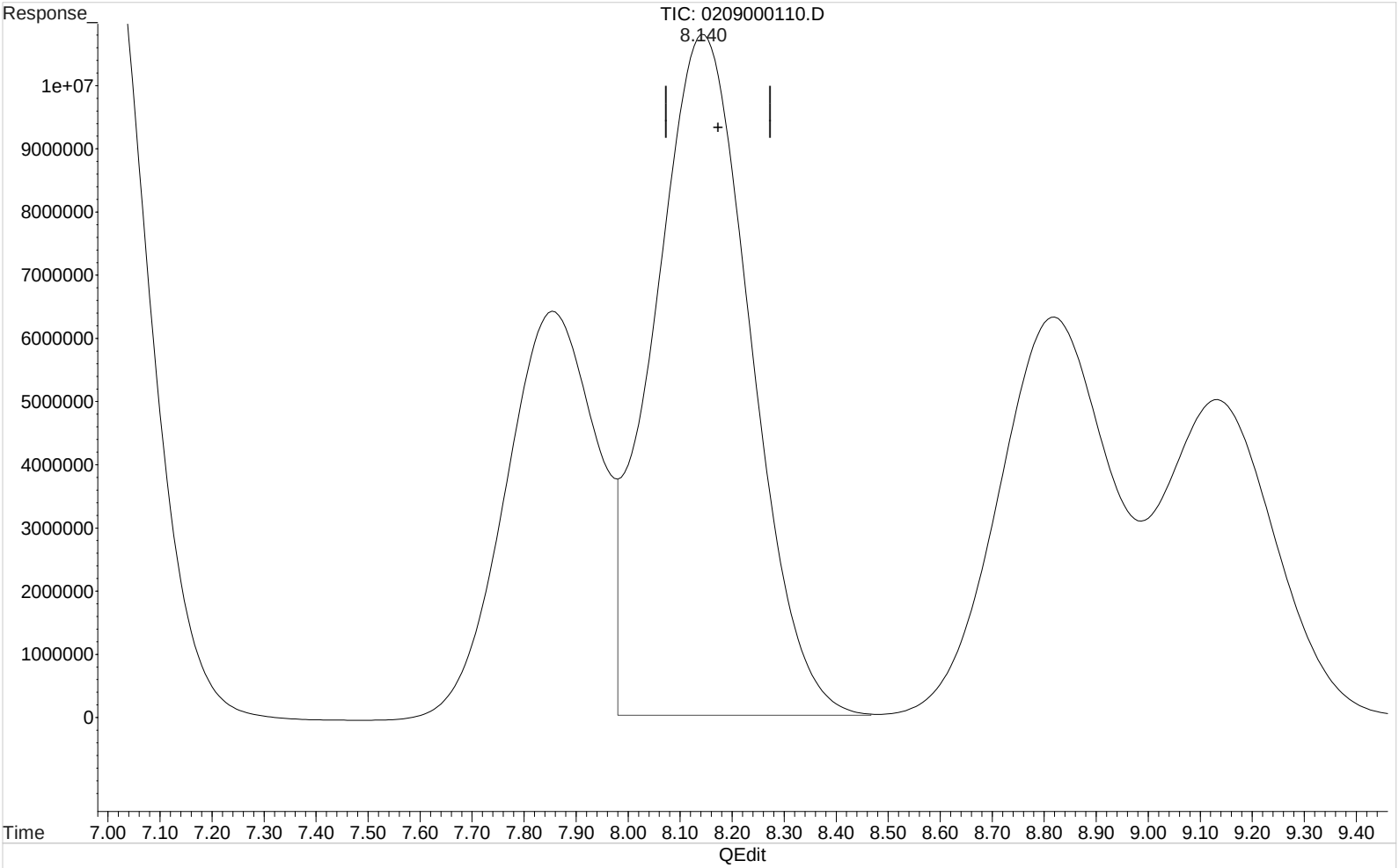
Quantitation Report (Qedit)

(b)
1st (6) 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:58 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.140min 2004.492 ug/L m

response 139414192

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000111.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:40 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:08 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	8.147	351298284	5076.822	ug/L	
Target Compounds						
1) T	Nitroglycerin	3.787	104644653	5000.603	ug/L	m
2) T	PETN	6.987	405313182	5081.362	ug/L	m

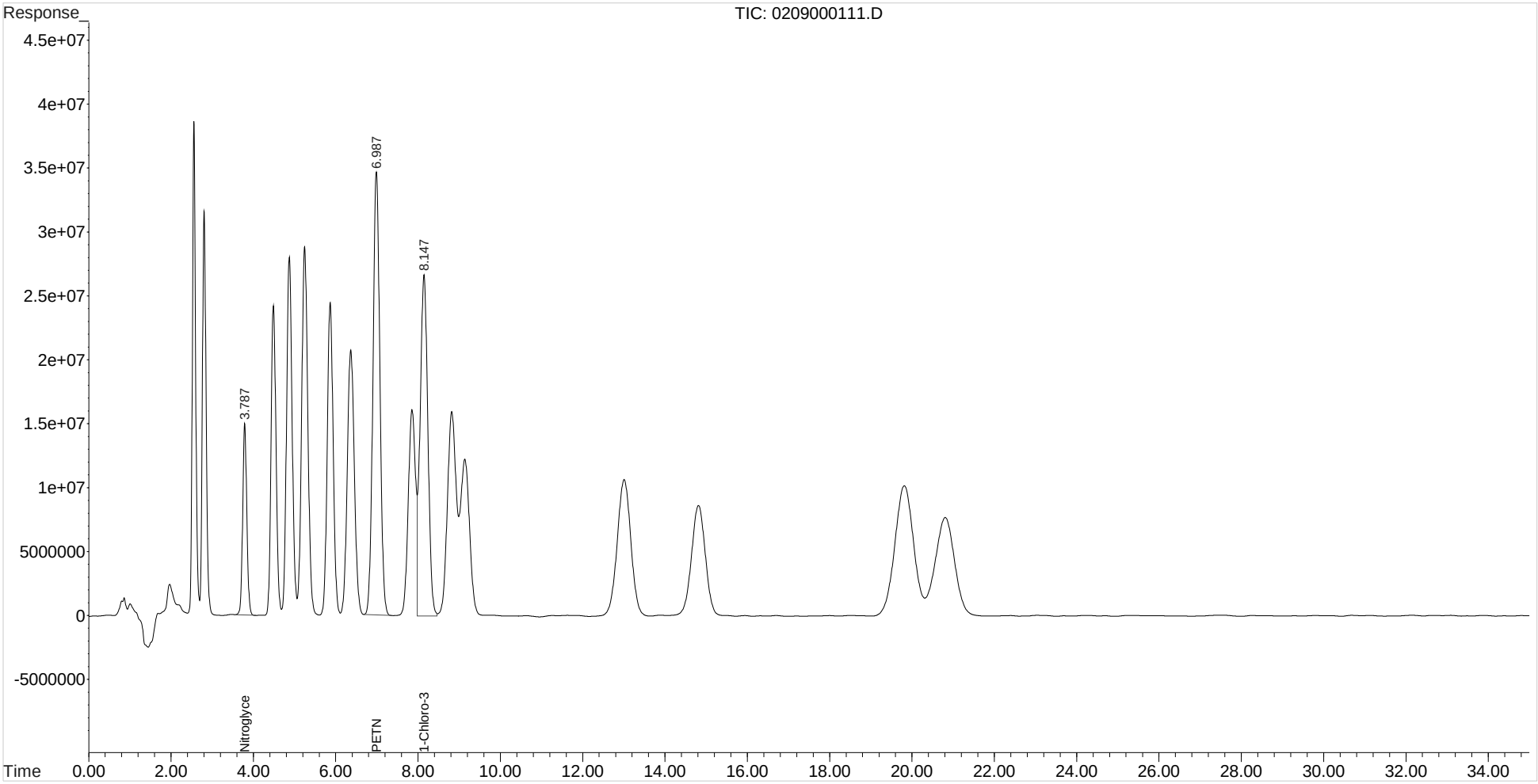
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000111.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:40 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:08 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

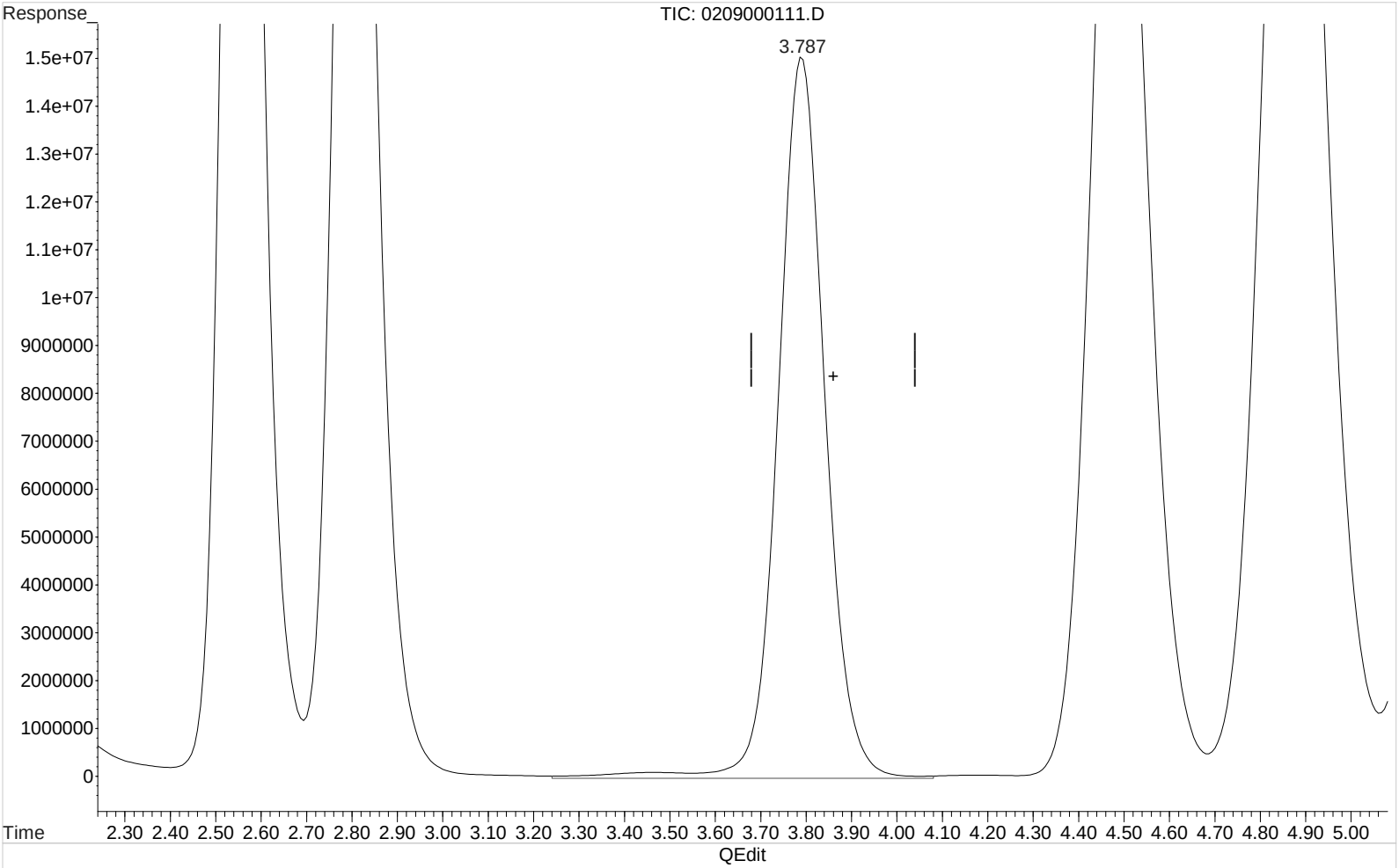


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000111.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:08 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.787min 5213.557 ug/L

response 109101011

Manual Integration:

Before

02/10/17

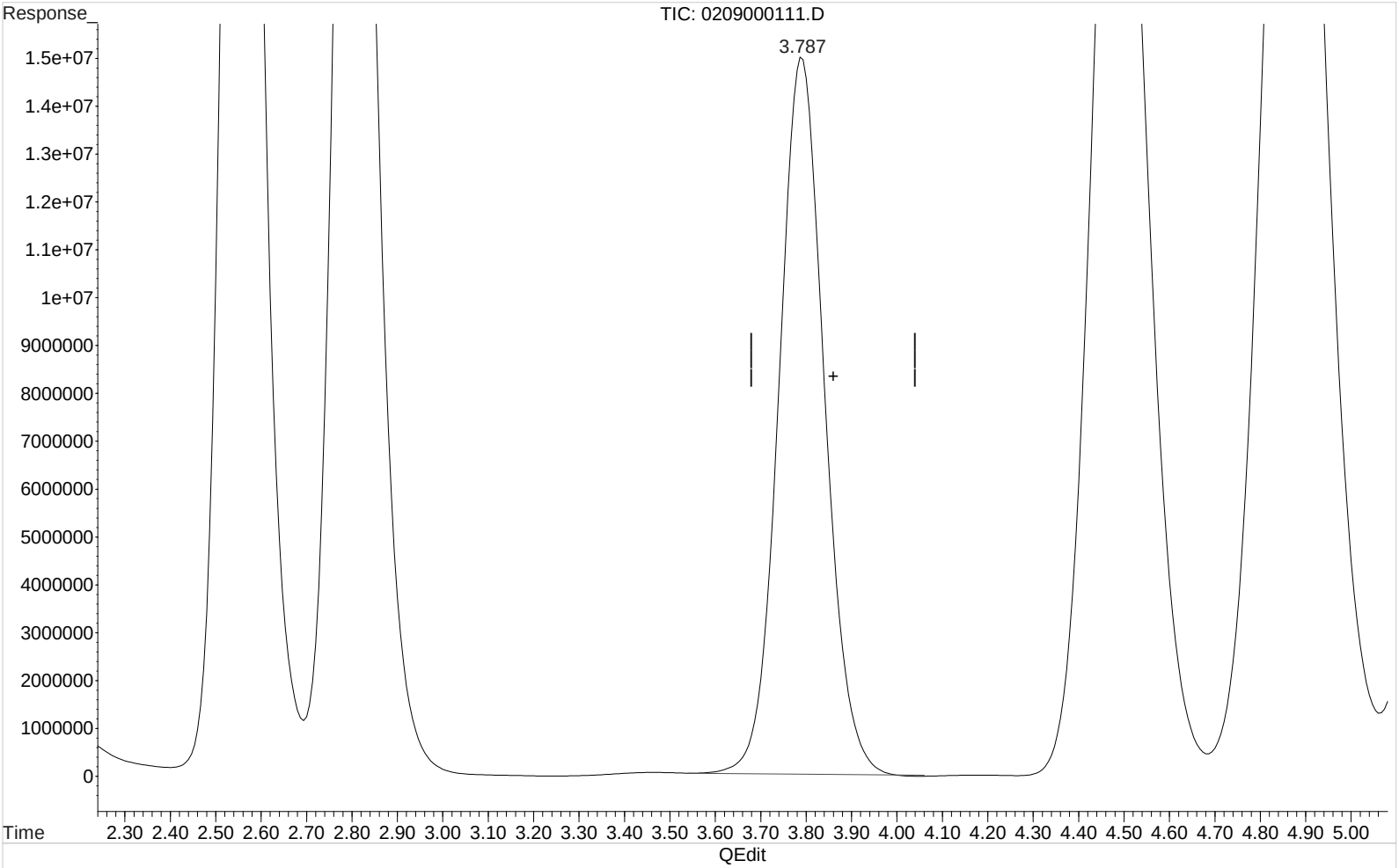
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000111.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:08 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.787min 5000.603 ug/L m

response 104644653

Manual Integration:

After

BLC

02/10/17

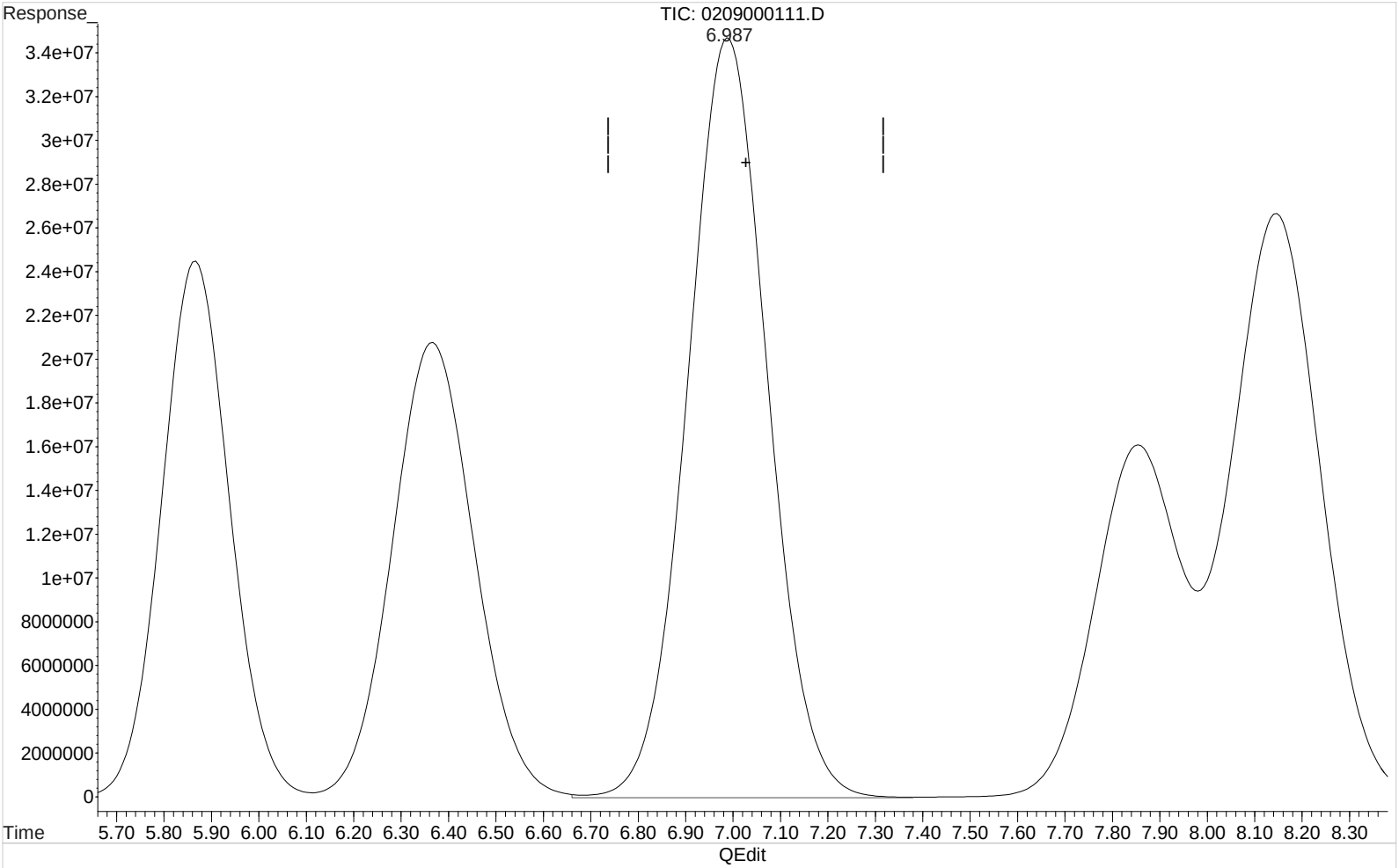
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000111.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:08 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.987min 5129.172 ug/L

response 409126699

Manual Integration:

Before

02/10/17

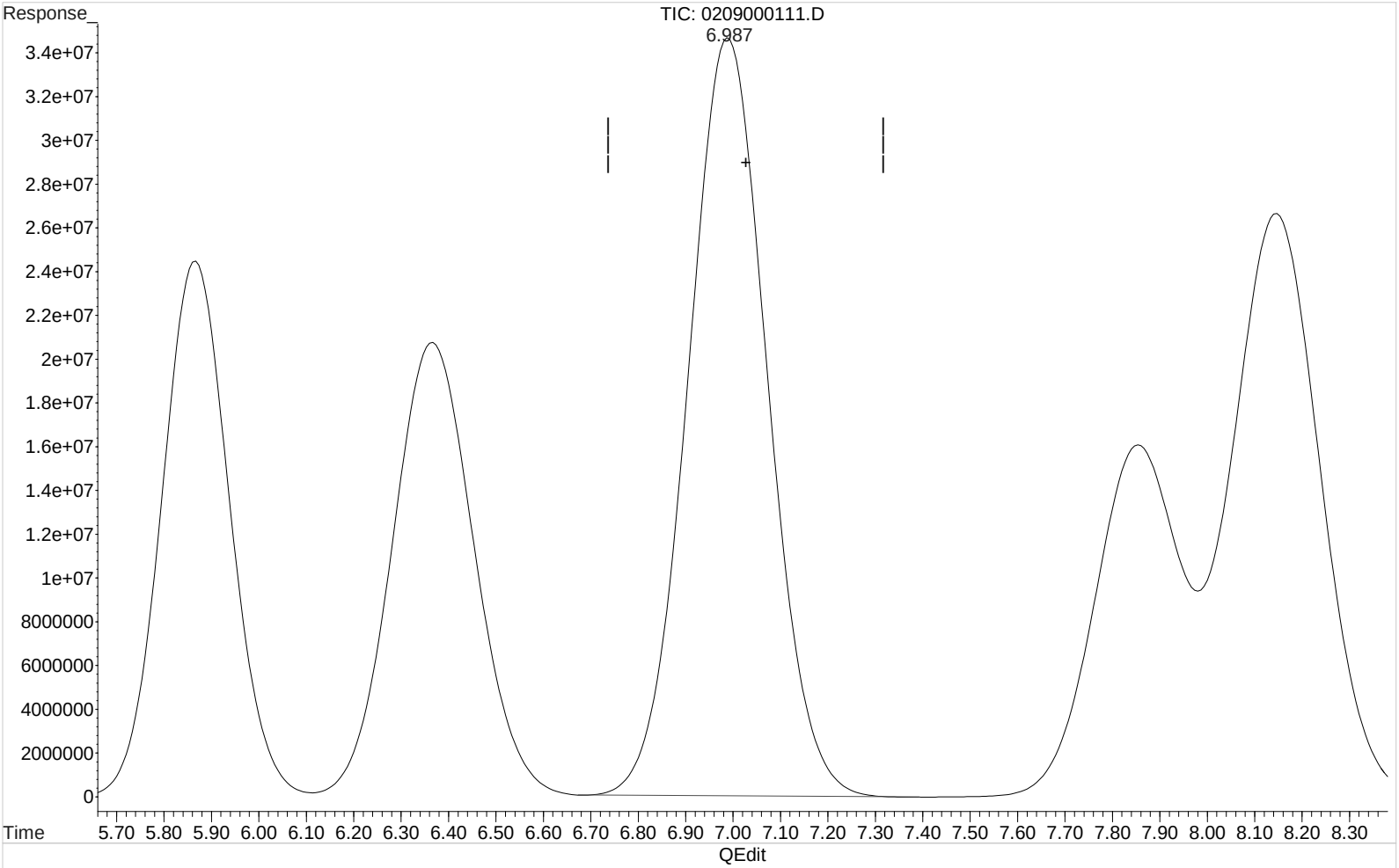
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000111.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:08 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.987min 5081.362 ug/L m

response 405313182

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000112.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:24:52 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:24:06 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	8.147	689768693	9936.722	ug/L	
Target Compounds						
1) T	Nitroglycerin	3.793	210346801	10104.020	ug/L	m
2) T	PETN	6.987	805997758	10211.609	ug/L	m

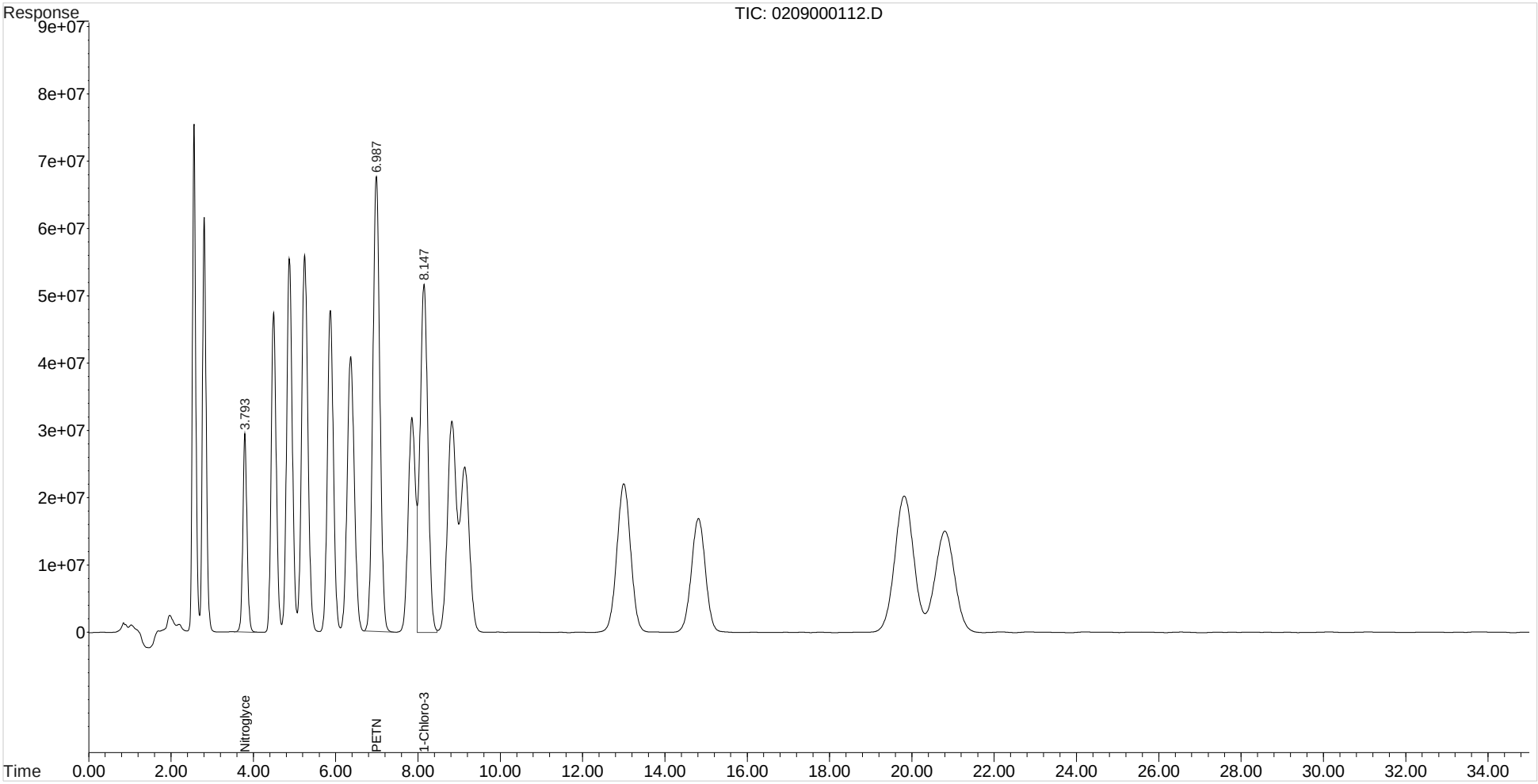
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000112.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:24:52 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:24:06 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(b) (6)

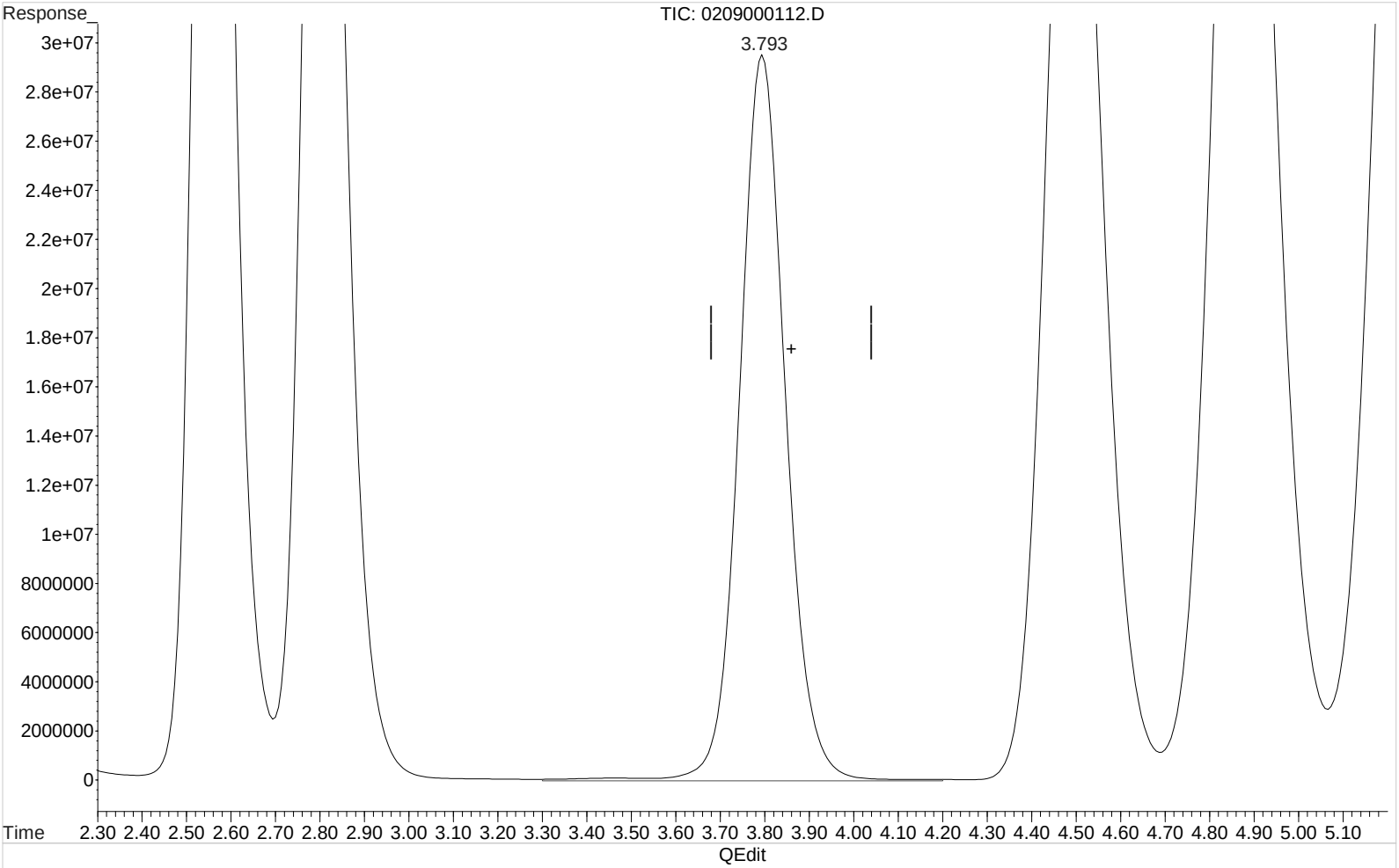
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-210\0209000112.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:24:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:24:06 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.793min 10277.587 ug/L

response 213960148

Manual Integration:

Before

02/10/17

(+) = Expected Retention Time

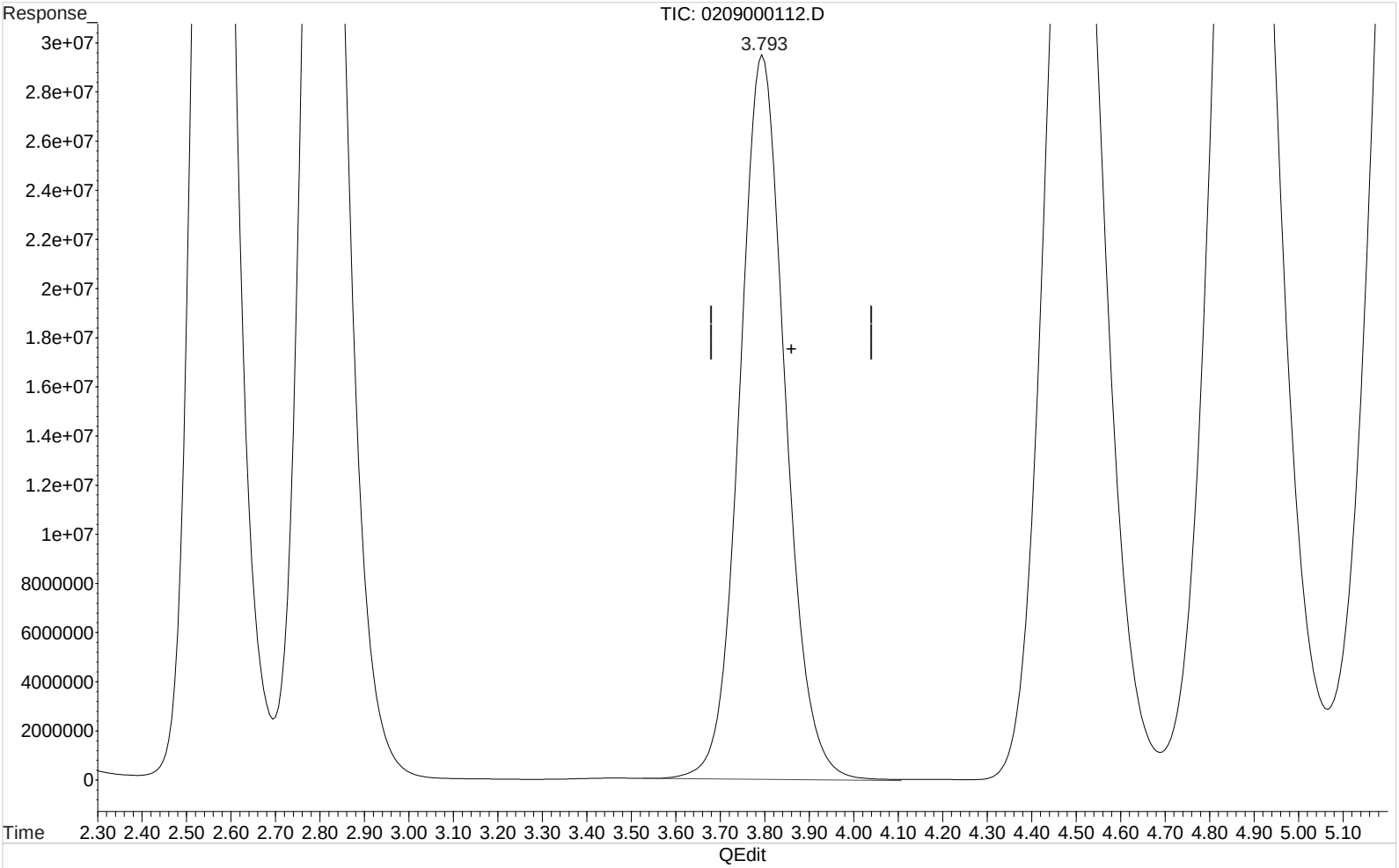
020917_Short_8330B@210.M Fri Feb 10 10:24:26 2017 Page: 1

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000112.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:24:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:24:06 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.793min 10104.020 ug/L m

response 210346801

Manual Integration:

After

BLC

02/10/17

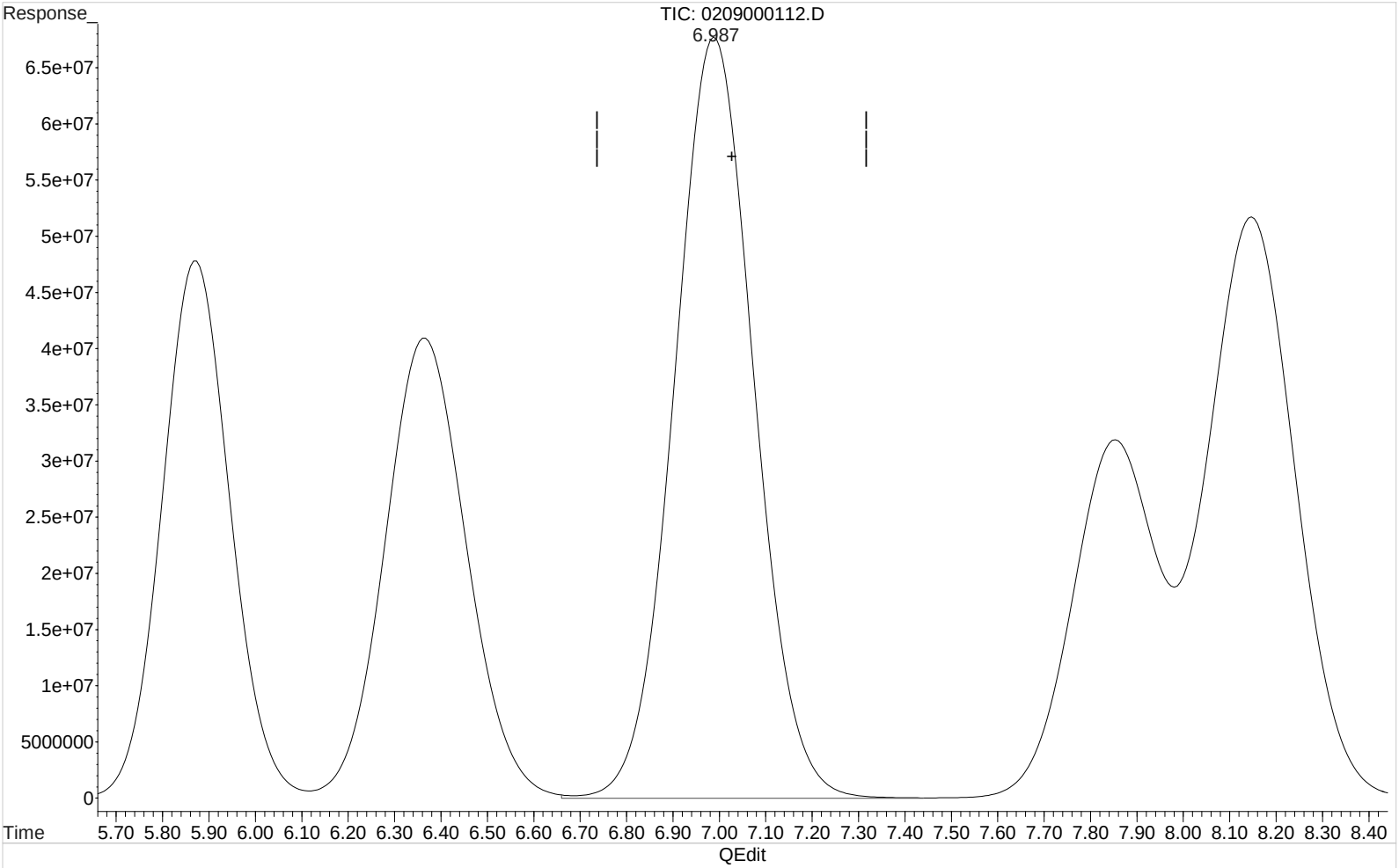
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000112.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:24:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:24:06 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.987min 10290.163 ug/L

response 812198027

Manual Integration:

Before

02/10/17

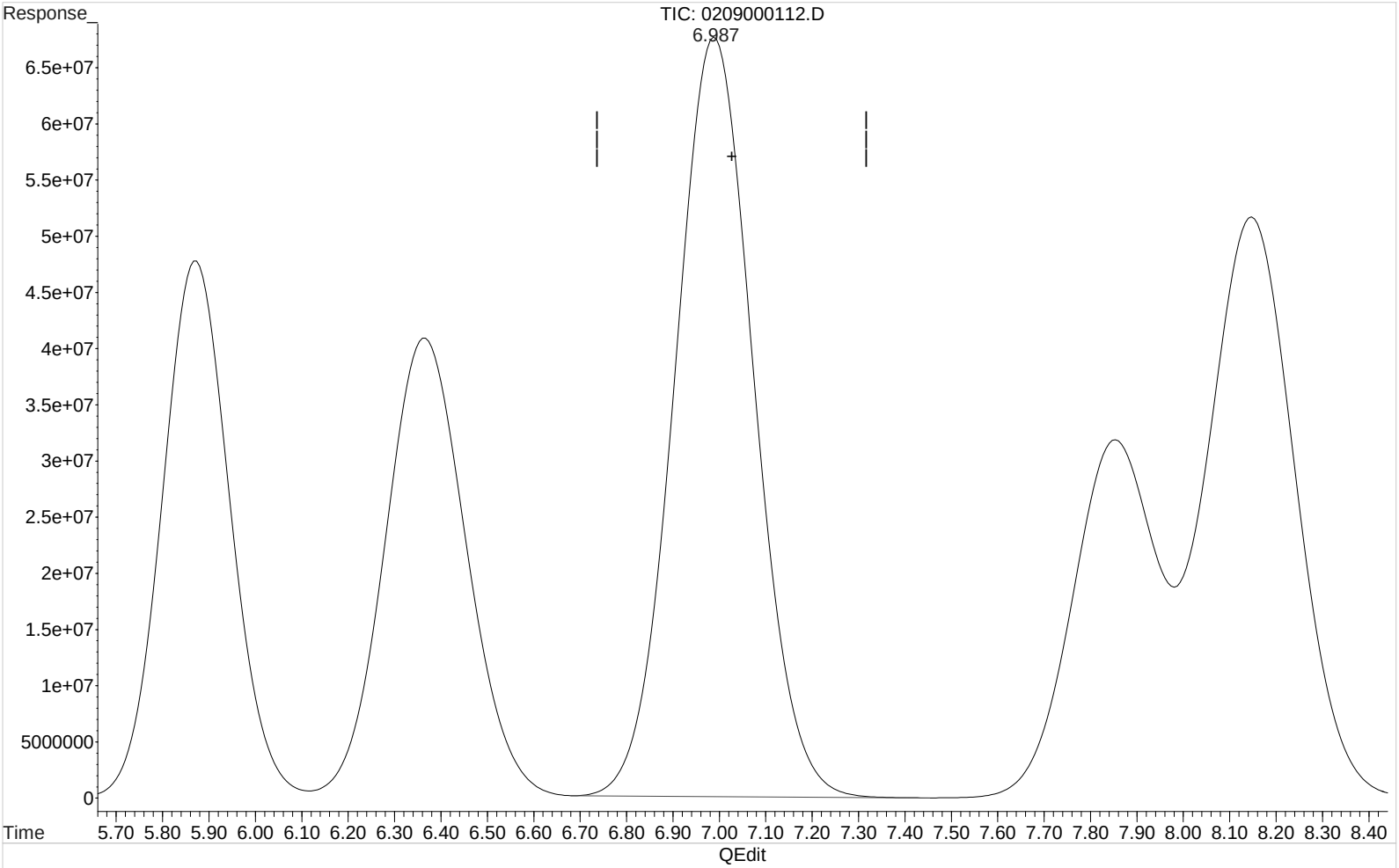
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000112.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:24:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:24:06 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.987min 10211.609 ug/L m

response 805997758

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000113.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:23:51 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:23:31 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	8.127	1388322466	NoCal	ug/L	m
Target Compounds						
1) T	Nitroglycerin	3.780	416362602	NoCal	ug/L	
2) T	PETN	6.973	1578591137	NoCal	ug/L	

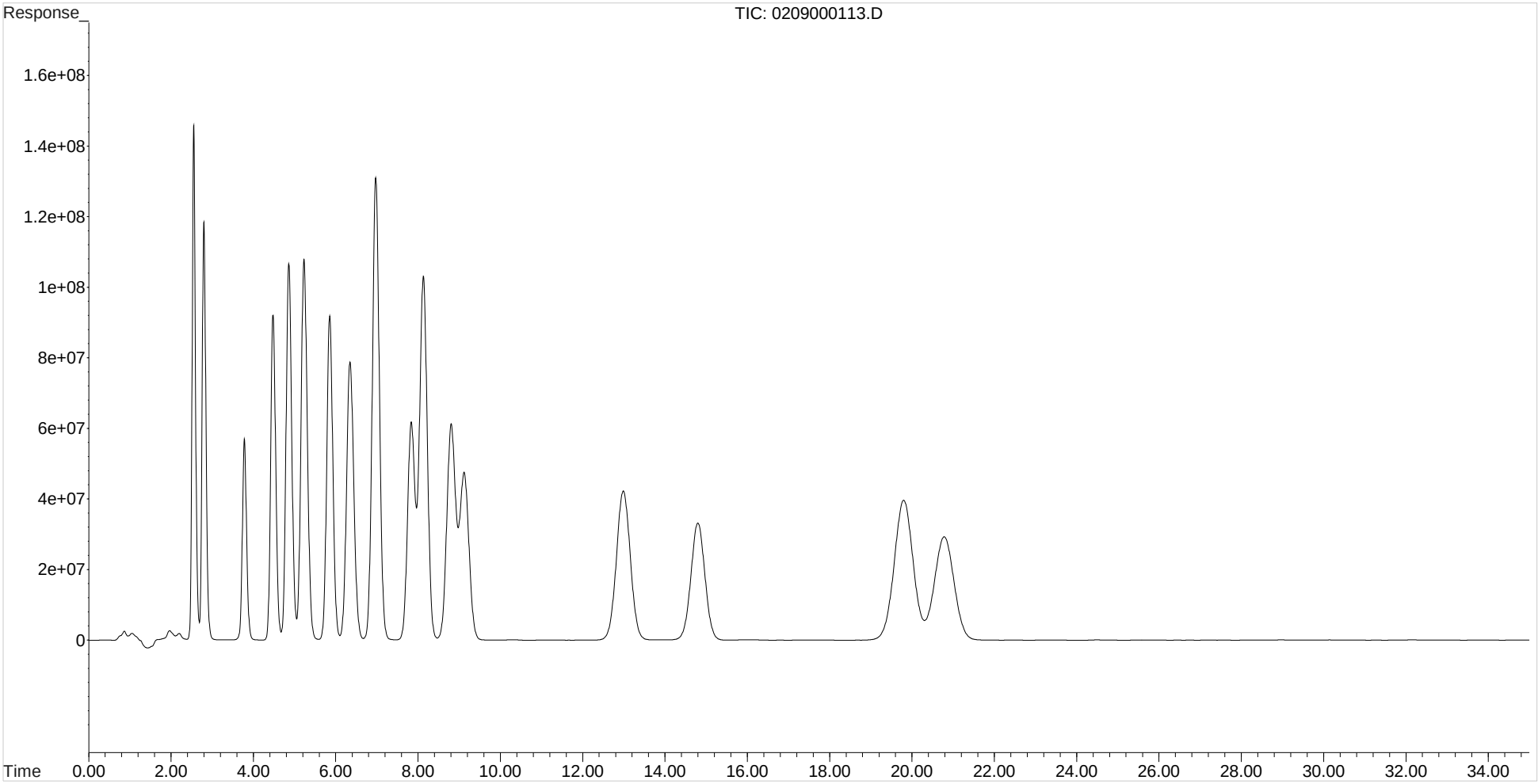
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000113.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:23:51 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:23:31 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

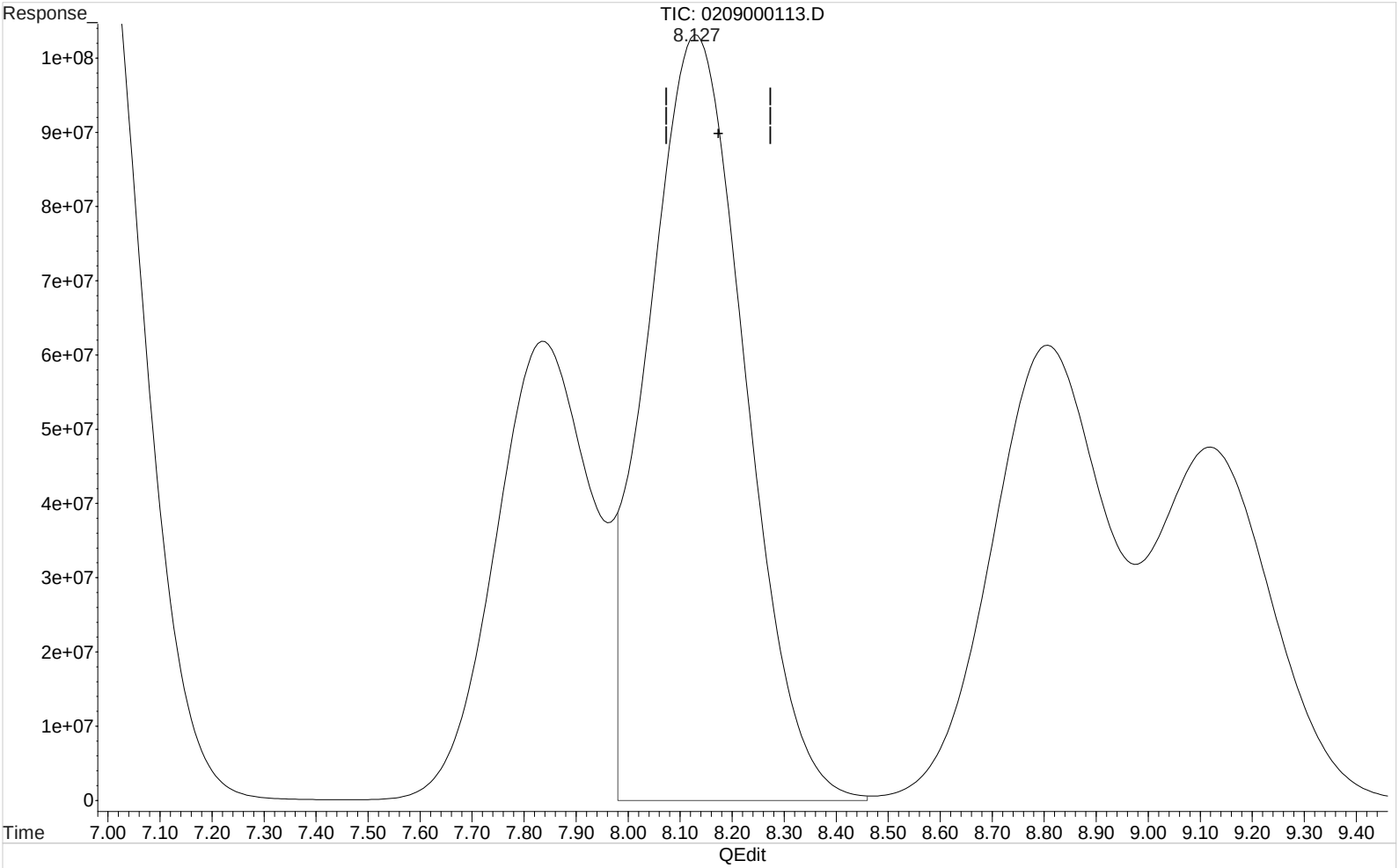


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000113.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:23:39 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:23:31 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.127min 0.000 ug/L

response 1344410632

Manual Integration:

Before

02/10/17

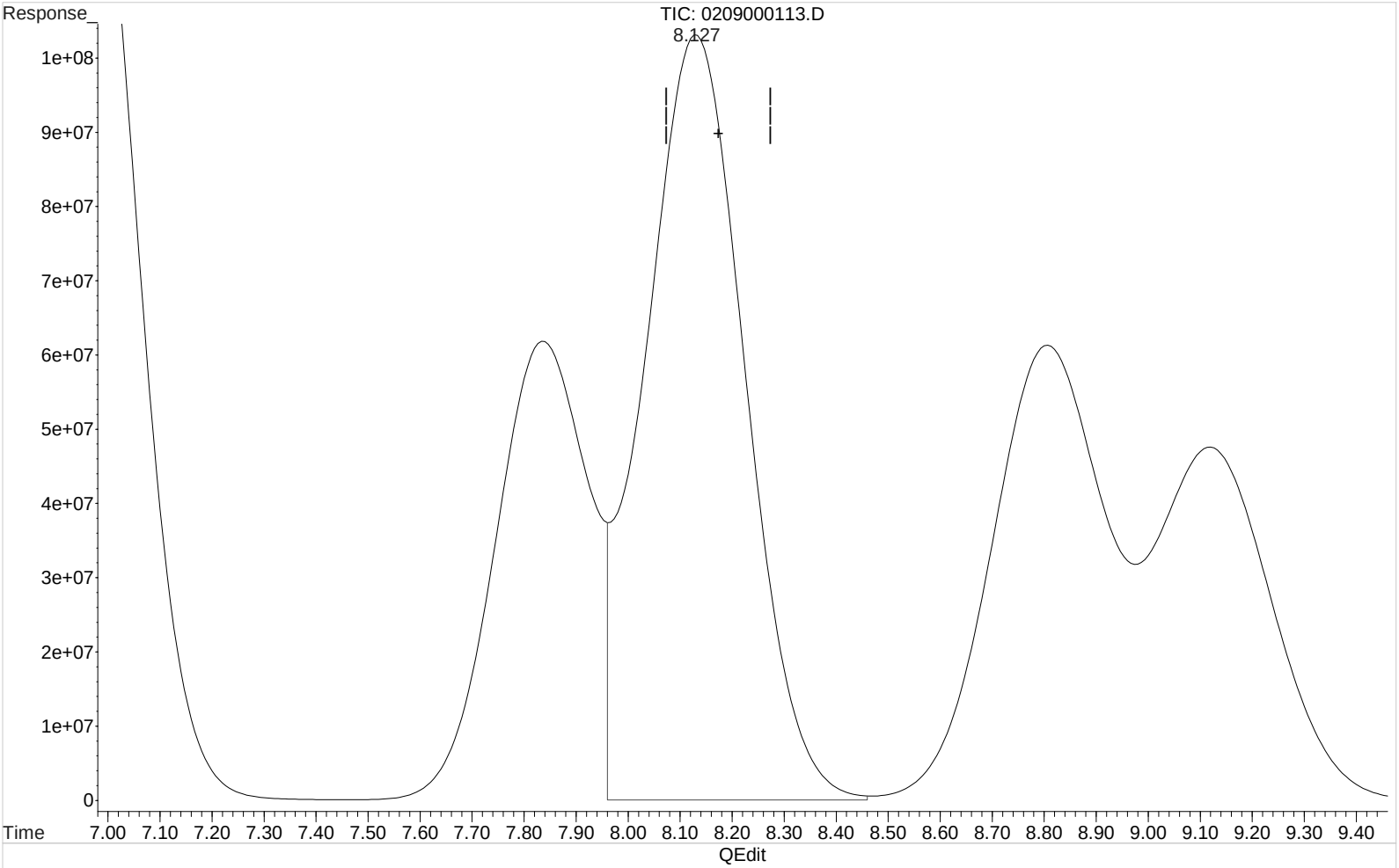
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000113.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:23:39 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:23:31 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.127min 0.000 ug/L m

response 1388322466

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000114.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 22:09:06 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:37:33 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L d
Target Compounds					
1) T	Nitroglycerin	0.000	0	N.D.	ug/L
2) T	PETN	0.000	0	N.D.	ug/L d

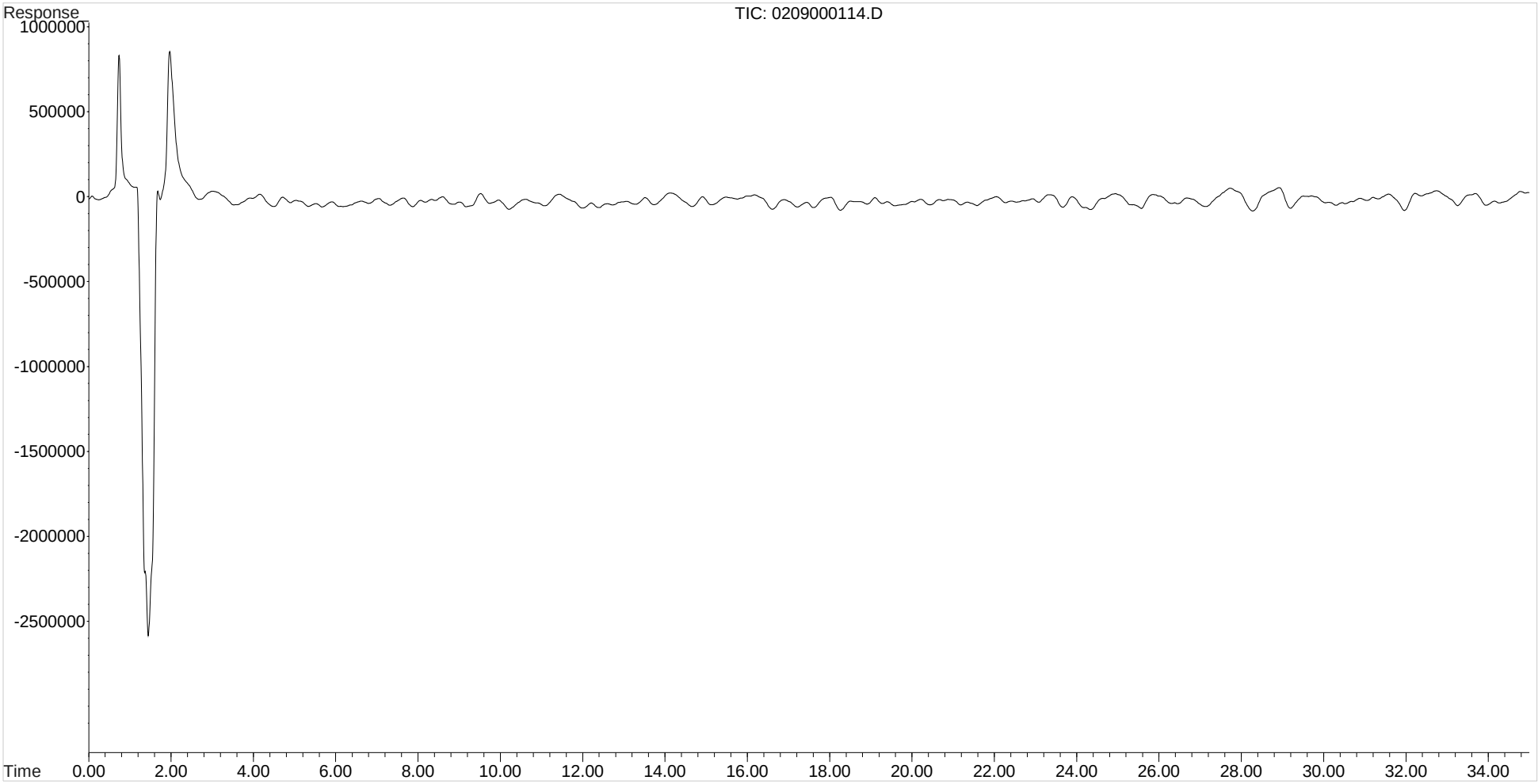
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000114.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 22:09:06 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:37:33 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000115.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:38:11 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	8.127	67923552	976.427 ug/L
Target Compounds				
1) T	Nitroglycerin	3.787	20764472	993.525 ug/L m
2) T	PETN	6.973	77460880	945.239 ug/L

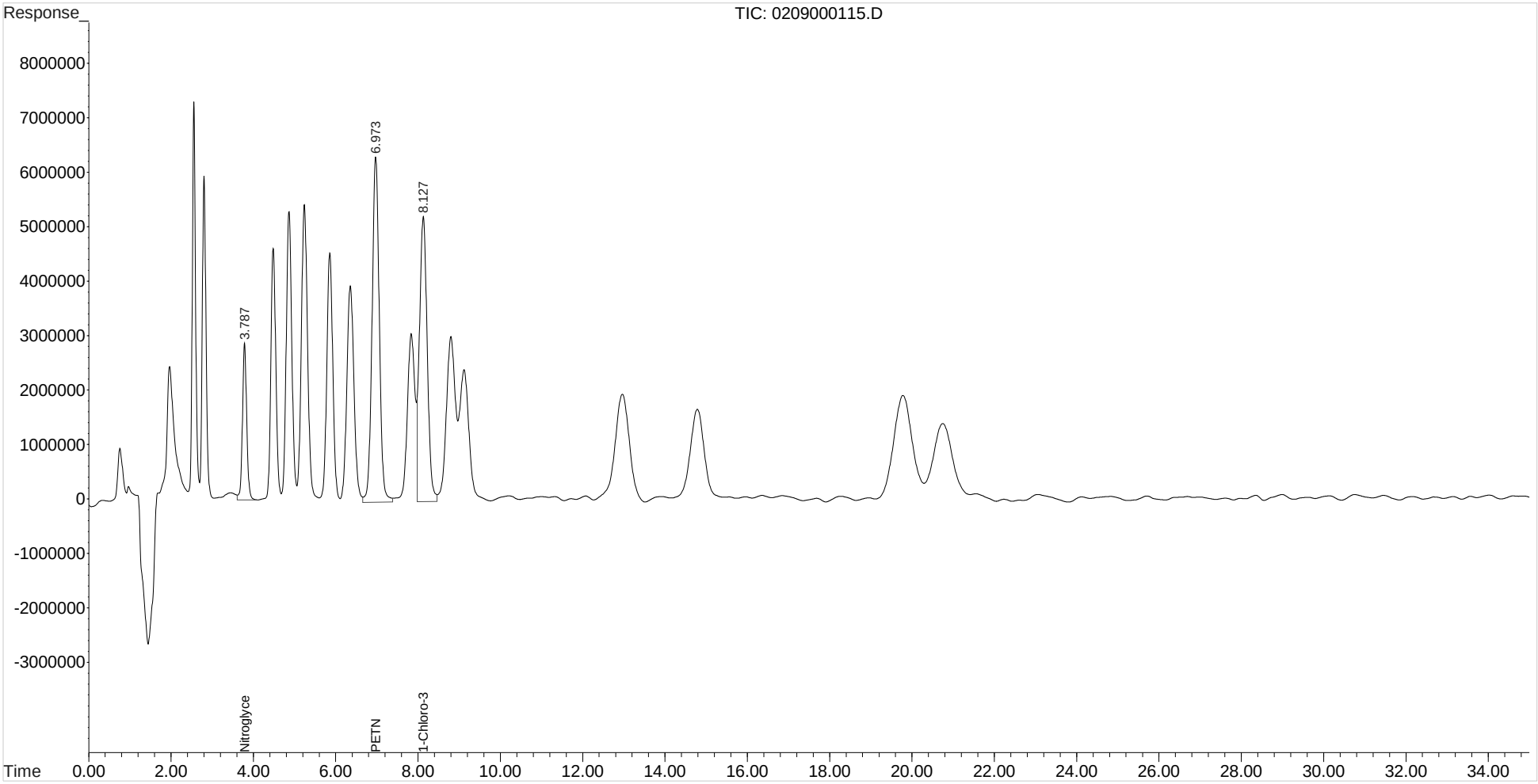
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000115.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:38:11 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(b) (6)

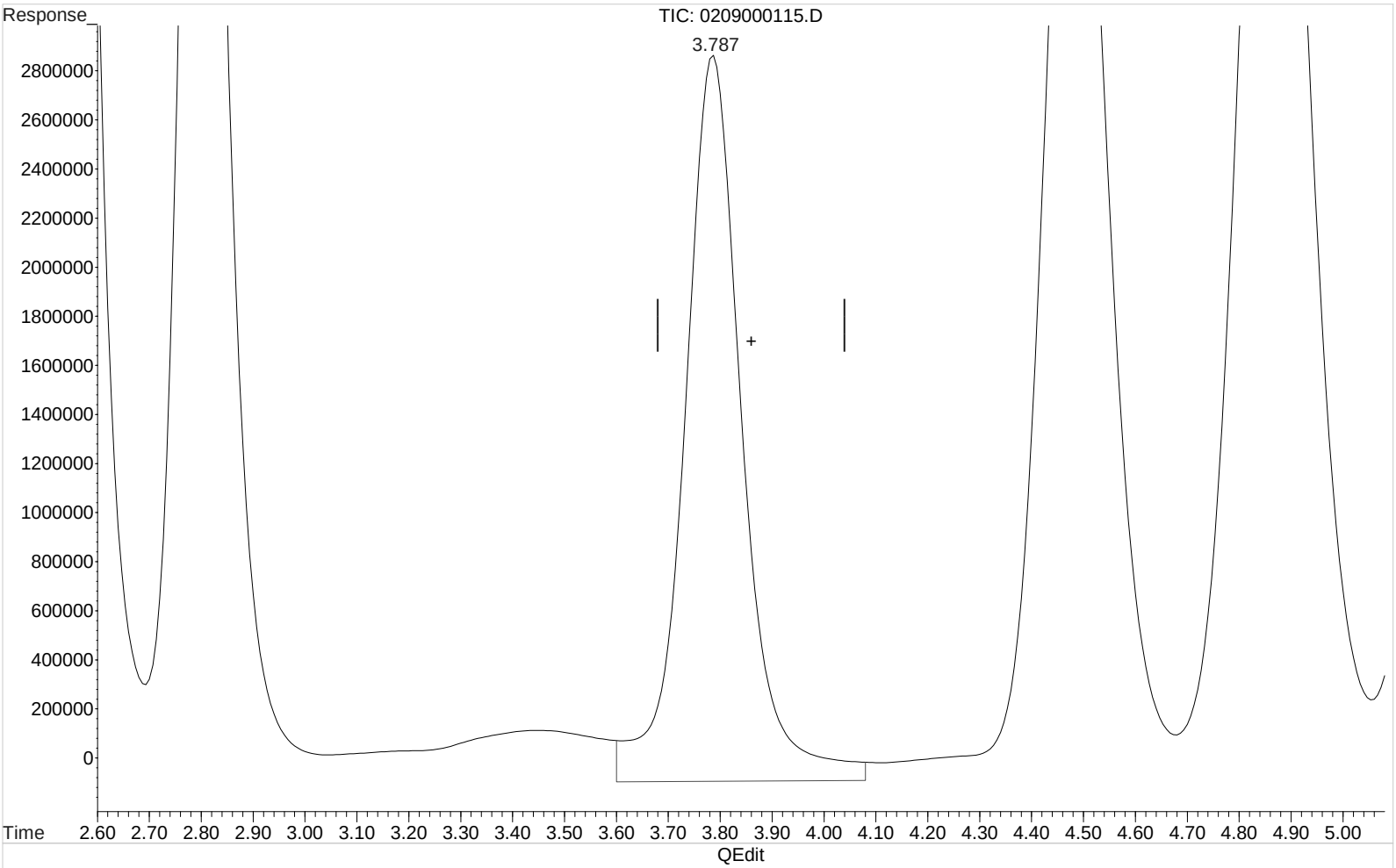
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-210\0209000115.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:37:47 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.787min 1099.844 ug/L

response 22986522

Manual Integration:

Before

02/10/17

(+) = Expected Retention Time

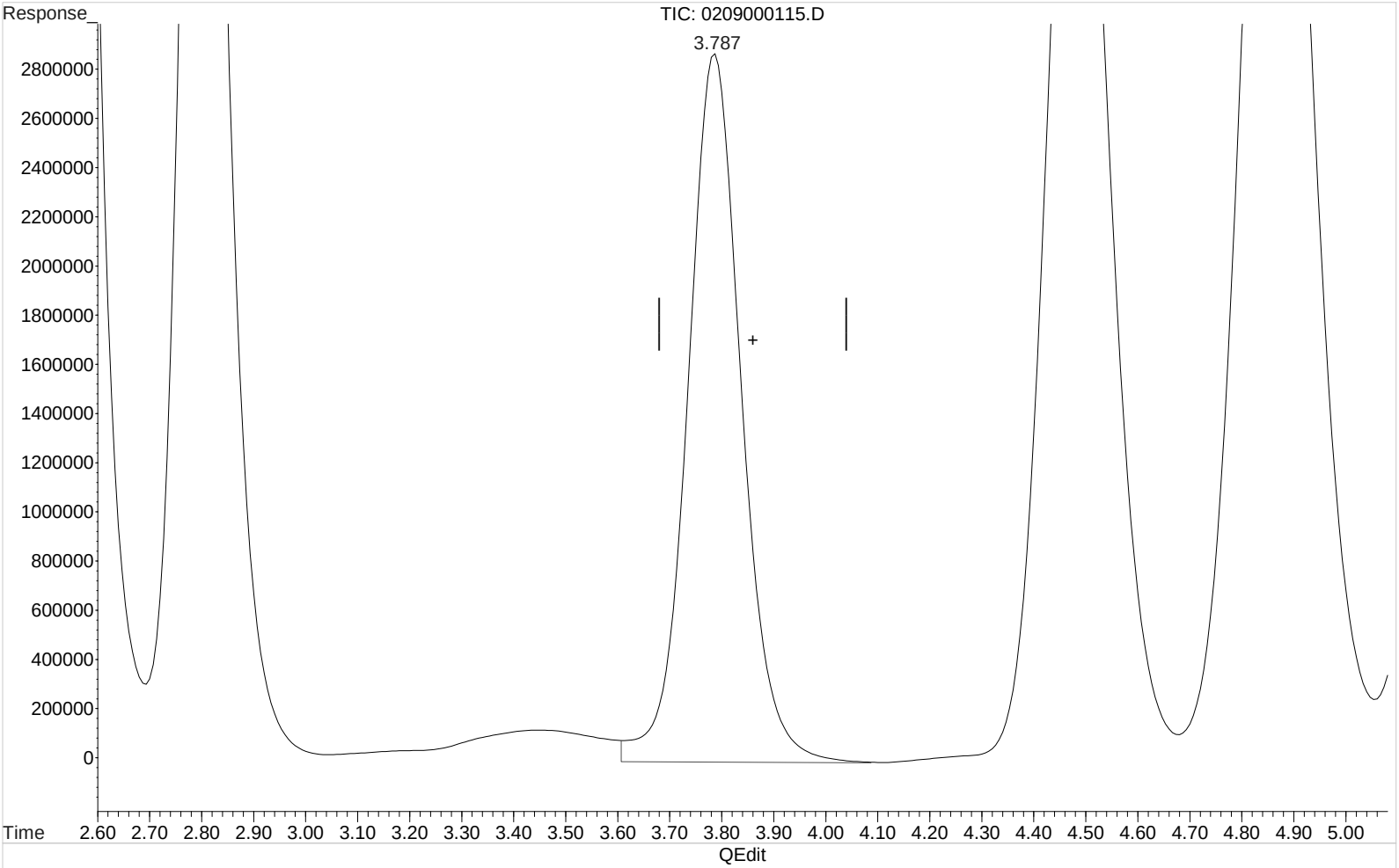
020917_Short_8330B@210.M Fri Feb 10 10:37:50 2017 Page: 1

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000115.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:37:47 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.787min 993.525 ug/L m

response 20764472

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Preparation Information

Group ID:	KWG1701217	**Prep Method:**	METHOD	**Prep Date:**	02/14/17 13:35
Department:	Organic LC				

Lab Code	Client ID	Product	Matrix	Amt. Ext.	Final Vol.
K1701351-016	EB-020717	8330B NitramAroEsters	WATER	1050ml	4ml
K1701351-017	EB-020817	8330B NitramAroEsters	WATER	1030ml	4ml
K1701351-018	EB-020917	8330B NitramAroEsters	WATER	1040ml	4ml
KWG1701217-1	Lab Control Sample	8330B NitramAroEsters	WATER	1000ml	4ml
KWG1701217-2	Duplicate Lab Control Sampl	8330B NitramAroEsters	WATER	1000ml	4ml
KWG1701217-3	Method Blank	8330B NitramAroEsters	WATER	1000ml	4ml

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
K1701351-016	1586619	16-OLC-02-14C	20uL			(b) (6)
K1701351-017	1586620	16-OLC-02-14C	20uL			
K1701351-018	1586618	16-OLC-02-14C	20uL			
KWG1701217-1	1586621	16-OLC-02-14C	20uL	14-OLC-02-43M	8uL	
KWG1701217-2	1586622	16-OLC-02-14C	20uL	14-OLC-02-43M	8uL	
KWG1701217-3	1586623	16-OLC-02-14C	20uL			

Comments:

Started By: (b) (6)

Completed By: (b) (6)

Assisted By:

Assisted By:

Training: Yes / No

Yes / No

Reviewed By:

Date: 2/27/17

Storage:

Chain of Custody

Relinquished By: (b) (6)

Date: 2.15.17

Received By:

Date: 2.16.17

Extracts Examined: Yes / No

Preparation Information

Group ID: KWG1701217 **Prep Method:** Method **Prep Date:** 2-14-17
Department: Organic LC

#	Lab Code	Client ID	B#	√	Product	Matrix	Amt. Ext. ml	pH	Int. Vol.	Final Vol.	Surr. Added	Spike Added
1	K1701351-016	EB-020717	.02	/	8330B NitramAroEst	WATER	1050	N/A	N/A	4 ml	20 ul	N/A
2	K1701351-017	EB-020817	.02	/	8330B NitramAroEst	WATER	1030	↓	↓	↓	↓	↓
3	K1701351-018	EB-020917	.02	/	8330B NitramAroEst	WATER	1040	↓	↓	↓	↓	↓
4	KWG1701217-1	Lab Control Sample			8330B NitramAroEst	WATER	1000	↓	↓	↓	↓	8 ul
5	KWG1701217-2	Duplicate Lab Control Sample			8330B NitramAroEst	WATER	1000	↓	↓	↓	↓	↓
6	KWG1701217-3	Method Blank			8330B NitramAroEst	WATER	1000	↓	↓	↓	↓	N/A

Comments: prep # 281558

Surrogate ID: 16-DLC-02-14C, 1000ppm, xp 5-31-17, 20ul
Spike ID: 14-DLC02-43M, 1000ppm, xp 4-30-18, 8 ul
Witness: (b) (6) 02-14-17
Started By: (b) (6) Assisted By:
Completed By: Assisted By:

Additional Prep Information for Nitroaromatics and Nitramines by HPLC-SOP: SOC-8330B (rev. 5) in water

Service Request # K1701351 **Stealth Work Group #** KWG1701217

Lims Prep Run # 281558

Solvents/Reagents used:

ACN Lot #: 56207 **Acetone Lot #:** DP426

Hydrophobic DVB extraction cartridge Lot # 0000152839

Strata-X 33U 200mg/3mL cartridge Lot#: S300-0219

(b) (6)

Initial SPE Start (Time/Date/Initial): 1335 2.14.17 [redacted]

Initial SPE Stop (Time/Date/Initial): 1400 2.14.17

Second SPE Start (Time/Date/Initial): 1425 2.15.17

Second SPE Stop (Time/Date/Initial): 1515 2.15.1

Final Volume Start (Time/Date/Initial) 1520 2.15.

Final Volume Stop (Time/Date/Initial) 1535 2.15.1

Vial Storage: Top Shelf **Archived Extract Storage:** Nemophilist

Comments/Observations:

Bench Sheet Review Check List
❑ Hold Times Met (if no, Reason:)
❑ Stealth group and lims group concur
❑ Prep date, dept, method, product code correct in stealth
❑ Spike Information correct
❑ Weights/Volumes and units correct on raw and final bench sheets
❑ Sample IDs have been checked—Bottle numbers appended if required
❑ Names present for: Started by, Completed by, relinquished by, and witnessed by.
❑ Training has been circled
❑ Extract Storage recorded
❑ Additional Prep Sheet completely filled out (NA or line out Blanks)
❑ All clean-ups have been noted on additional prep sheet
❑ Signed service request with Form V, if applicable, has been attached

Preparation Information

Group ID:	KWG1701417	**Prep Method:**	METHOD	**Prep Date:**	02/21/17 17:05
Department:	Organic LC				

Lab Code	Client ID	Product	Matrix	Amt. Ext.	Final Vol.	Solids
K1701351-001	FD-020717	8330B Fire Range Nitr	SOIL	10.004g	8ml	
K1701351-002	FD-020817	8330B Fire Range Nitr	SOIL	10.015g	8ml	
K1701351-003	FTBL-SB-02-0-0.5-020817	8330B Fire Range Nitr	SOIL	10.078g	8ml	
K1701351-004	FTBL-SB-02-0.5-2-020817	8330B Fire Range Nitr	SOIL	10.291g	8ml	
K1701351-005	FTBL-SB-02-4-5.5-020817	8330B Fire Range Nitr	SOIL	10.120g	8ml	
K1701351-006	FTBL-SB-01D-0-0.5-020717	8330B Fire Range Nitr	SOIL	10.320g	8ml	
K1701351-007	FTBL-SB-01D-0.5-2-020717	8330B Fire Range Nitr	SOIL	10.212g	8ml	
K1701351-008	FTBL-SB-01D-4-6-020717	8330B Fire Range Nitr	SOIL	10.220g	8ml	
K1701351-009	FTBL-SB-01-0-0.5-020717	8330B Fire Range Nitr	SOIL	10.159g	8ml	
K1701351-010	FTBL-SB-01-0.5-2-020717	8330B Fire Range Nitr	SOIL	10.017g	8ml	
K1701351-011	FTBL-SB-01-4-6-020717	8330B Fire Range Nitr	SOIL	10.189g	8ml	
K1701351-012	FTBL-SB-03-0-0.5-020817	8330B Fire Range Nitr	SOIL	10.090g	8ml	
K1701351-013	FTBL-SB-03-6-8-020817	8330B Fire Range Nitr	SOIL	10.026g	8ml	
K1701351-015	FTBL-SB03-28-30-020917	8330B Fire Range Nitr	SOIL	10.048g	8ml	
KWG1701417-1	Duplicate	8330B Fire Range Nitr	SOIL	10.004g	8ml	
KWG1701417-2	Triplicate	8330B Fire Range Nitr	SOIL	10.047g	8ml	
KWG1701417-3	Matrix Spike	8330B Fire Range Nitr	SOIL	10.007g	8ml	
KWG1701417-4	Duplicate Matrix Spike	8330B Fire Range Nitr	SOIL	10.017g	8ml	
KWG1701417-5	Standard Reference Material	8330B Fire Range Nitr	SOIL	10.036g	8ml	
KWG1701417-6	Storage Blank	8330B Fire Range Nitr	SOIL	10.317g	8ml	
KWG1701417-7	Storage Blank	8330B Fire Range Nitr	SOIL	10.084g	8ml	
KWG1701417-8	Lab Control Sample	8330B Fire Range Nitr	SOIL	10.000g	8ml	
KWG1701417-9	Method Blank	8330B Fire Range Nitr	SOIL	10.000g	8ml	

Lab Code	Parent Lab Code	Comments
KWG1701417-1	K1701351-001	KQ1701866-01
KWG1701417-2	K1701351-001	KQ1701866-02
KWG1701417-3	K1701351-001	KQ1701866-03
KWG1701417-4	K1701351-001	KQ1701866-04
KWG1701417-5		KQ1701866-05
KWG1701417-6		KQ1701866-06
KWG1701417-7		KQ1701866-07

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
K1701351-001	1587763	16-OLC-02-14C	40uL			(b) (6)
K1701351-002	1587764	16-OLC-02-14C	40uL			

Comments:

Started By: (b) (6) Assisted By:

Completed By: (b) (6) Assisted By:

Reviewed By: Date: 3/28/17 Storage:

Training: Yes / No; Yes / No

Chain of Custody

Relinquished By: (b) (6) Date: 3-1-2017

Received By: Date: 3-1-2017

Extracts Examined: Yes / No

Group ID:	KWG1701417	**Prep Method:**	METHOD	**Prep Date:**	02/21/17 17:05
Department:	Organic LC				

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
K1701351-003	1587765	16-OLC-02-14C	40uL			(b) (6) [redacted]
K1701351-004	1587766	16-OLC-02-14C	40uL			
K1701351-005	1587767	16-OLC-02-14C	40uL			
K1701351-006	1587768	16-OLC-02-14C	40uL			
K1701351-007	1587769	16-OLC-02-14C	40uL			
K1701351-008	1587770	16-OLC-02-14C	40uL			
K1701351-009	1587771	16-OLC-02-14C	40uL			
K1701351-010	1587772	16-OLC-02-14C	40uL			
K1701351-011	1587773	16-OLC-02-14C	40uL			
K1701351-012	1587774	16-OLC-02-14C	40uL			
K1701351-013	1587775	16-OLC-02-14C	40uL			
K1701351-015	1587776	16-OLC-02-14C	40uL			
KWG1701417-1	1587777	16-OLC-02-14C	40uL			
KWG1701417-2	1587778	16-OLC-02-14C	40uL			
KWG1701417-3	1587779	16-OLC-02-14C	40uL	14-OLC-02-43M	20uL	
KWG1701417-4	1587780	16-OLC-02-14C	40uL	14-OLC-02-43M	20uL	
KWG1701417-5	1587781	16-OLC-02-14C	40uL			
KWG1701417-6	1587782	16-OLC-02-14C	40uL			
KWG1701417-7	1587783	16-OLC-02-14C	40uL			
KWG1701417-8	1587784	16-OLC-02-14C	40uL	14-OLC-02-43M	20uL	
KWG1701417-9	1587785	16-OLC-02-14C	40uL			

Comments:

Started By: (b) (6) [redacted] Assisted By:

Completed By: Assisted By:

Reviewed By: (b) (6) [redacted] Date: 3/6/17 Storage:

Training: Yes / No; Yes / No

Chain of Custody

Relinquished By: (b) (6) [redacted] Date: 3.1.2017

Received By: Date: 3.1.2017

Extracts Examined: Yes / No

Preparation Information

Group ID:	KWG1701417	**Prep Method:**		**Prep Date:**	
Department:	Organic LC		EPA 3535A		02/21/17

#	Lab Code	Client ID	B#	√	Product	Matrix	Amt. Ext. g	pH	Int. Vol.	Final Vol. mL	Surr. Added µL	Spike Added µL
1	K1701351-001	FD-020717			8330B Fire Range Nitr	SOIL	see pre-prep	n/a	n/a	8	40	
2	K1701351-002	FD-020817			8330B Fire Range Nitr	SOIL						
3	K1701351-003	FTBL-SB-02-0-0.5-020817			8330B Fire Range Nitr	SOIL						
4	K1701351-004	FTBL-SB-02-0.5-2-020817			8330B Fire Range Nitr	SOIL						
5	K1701351-005	FTBL-SB-02-4-5.5-020817			8330B Fire Range Nitr	SOIL						
6	K1701351-006	FTBL-SB-01D-0-0.5-020717			8330B Fire Range Nitr	SOIL						
7	K1701351-007	FTBL-SB-01D-0.5-2-020717			8330B Fire Range Nitr	SOIL						
8	K1701351-008	FTBL-SB-01D-4-6-020717			8330B Fire Range Nitr	SOIL						
9	K1701351-009	FTBL-SB-01-0-0.5-020717			8330B Fire Range Nitr	SOIL						
10	K1701351-010	FTBL-SB-01-0.5-2-020717			8330B Fire Range Nitr	SOIL						
11	K1701351-011	FTBL-SB-01-4-6-020717			8330B Fire Range Nitr	SOIL						
12	K1701351-012	FTBL-SB-03-0-0.5-020817			8330B Fire Range Nitr	SOIL						
13	K1701351-013	FTBL-SB-03-6-8-020817			8330B Fire Range Nitr	SOIL						
14	K1701351-015	FTBL-SB03-28-30-020917			8330B Fire Range Nitr	SOIL						
15	KWG1701417-1	Duplicate K1701351-001			8330B Fire Range Nitr	SOIL						
16	KWG1701417-2	Triplicate K1701351-001			8330B Fire Range Nitr	SOIL						
17	KWG1701417-3	Matrix Spike K1701351-001			8330B Fire Range Nitr	SOIL						20
18	KWG1701417-4	Duplicate Matrix Spike K1701351-001			8330B Fire Range Nitr	SOIL						20

Comments:

Surrogate ID: 16-OLC-02-14C 1000 ppm XP 5-31-17

Spike ID: 14-OLC-02-43M 1000 ppm XP 04-31-18

Witness: (b) (6) 2/21/17

Started By: (b) (6)

Assisted By: (b) (6)

Completed By: [redacted]

Assisted By:

Group ID:	KWG1701417	**Prep Method:**	**Prep Date:**
Department:	Organic LC	EPA 3535A	02/21/17

#	Lab Code	Client ID	B#	√	Product	Matrix	Amt. Ext. g	pH	Int. Vol.	Final Vol. mL	Surr. Added mL	Spike Added mL
19	KWG1701417-5	Standard Reference Material	—		8330B Fire Range Nitr	SOIL	see pre-prep	N/a	N/a	8	40	—
20	KWG1701417-6	Storage Blank GB1	—		8330B Fire Range Nitr	SOIL	↓	↓	↓	↓	↓	—
21	KWG1701417-7	Storage Blank GB2	—		8330B Fire Range Nitr	SOIL	↓	↓	↓	↓	↓	—
22	KWG1701417-8	Lab Control Sample	—		8330B Fire Range Nitr	SOIL	↓	↓	↓	↓	↓	20
23	KWG1701417-9	Method Blank	—		8330B Fire Range Nitr	SOIL	↓	↓	↓	↓	↓	—

Comments:

Surrogate ID: 16-OLC-02-14C 1000 ppm xp 05.31.17

Spike ID: 14-OLC-02-43M 1000 ppm xp 04.31.18

Witness: (b) (6) /17

Started By: (b) (6) Assisted By:

Completed By: Assisted By:

Additional Prep Information For Nitroaromatics and Nitramines by HPLC – SOP: SOC-8330B (rev. 4) in Soil

Service Request # K1701351 **Stealth Work Group #** KWG1701417

Lims Run # 282053

Solvents/Reagents used:

0.1% Glacial Acetic Acid/ACN Lot# 17-OLC-01-03L

ACN Lot# 56207 **Reagent Water Lot#** 56160

Balance ID#: -49, -50

Sonic Bath Start (Time/Date/Initial): 17:05 02/21/17 (b) (6)

Sonic Bath Stop (Time/Date/Initial): 12:30 02/22/17

Strata-X 33U 200mg/3mL cartridge Lot# S300-0219

Extraction Start (Time/Date/Initial): 1040 3.1.17 (b) (6)

Extraction Stop (Time/Date/Initial): 1430 3/1/17

Final Volume Start (Time/Date/Initial): 1430 3/1/17 (b) (6)

Final Volume Stop (Time/Date/Initial): 1525 3/1/17

Completion (Time/Date/Initial) 1525 3/1/17 (b) (6) **Vial Storage:** TOP SHELF

Archived Extract Storage: LIME JELLO

Comments/Observations:

Bench Sheet Review Check List
❑ Hold Times Met (if no, Reason:)
❑ Stealth group and lims group concur
❑ Prep date, dept, method, product code correct in stealth
❑ Spike Information correct
❑ Weights/Volumes and units correct on raw and final bench sheets
❑ Sample IDs have been checked—Bottle numbers appended if required
❑ Names present for: Started by, Completed by, relinquished by, and witnessed by.
❑ Training has been circled
❑ Extract Storage recorded
❑ Additional Prep Sheet completely filled out (NA or line out Blanks)
❑ All clean-ups have been noted on additional prep sheet
❑ Signed service request with Form V, if applicable, has been attached

Pre-Prep Information Benchsheet

Prep Run #: 282053 **Prep Method:** **Team:** **Prep Due Date:** Feb-21-2017

#	Lab Code	Bottle	Test Name	Weight	Sample Comments	Test Comments
1	K1701351-001	.03	Fire Range Nitr	10.004g		PrepComments:APOSEY K-BALANCE-49
2	K1701351-002	.03	Fire Range Nitr	10.015g		PrepComments:DMadden K-Balance-50
3	K1701351-003	.03	Fire Range Nitr	10.078g		PrepComments:DMadden K-Balance-50
4	K1701351-004	.04	Fire Range Nitr	10.291g		PrepComments:DMadden K-Balance-50
5	K1701351-005	.04	Fire Range Nitr	10.120g		PrepComments:DMadden K-Balance-50
6	K1701351-006	.04	Fire Range Nitr	10.320g		PrepComments:DMadden K-Balance-50
7	K1701351-007	.04	Fire Range Nitr	10.212g		PrepComments:DMadden K-Balance-50
8	K1701351-008	.04	Fire Range Nitr	10.220g		PrepComments:DMadden K-Balance-50
9	K1701351-009	.04	Fire Range Nitr	10.159g		PrepComments:DMadden K-Balance-50
10	K1701351-010	.04	Fire Range Nitr	10.017g		PrepComments:DMadden K-Balance-50
11	K1701351-011	.04	Fire Range Nitr	10.189g		PrepComments:DMadden K-Balance-50
12	K1701351-012	.05	Fire Range Nitr	10.090g		PrepComments:DMadden K-Balance-50
13	K1701351-013	.05	Fire Range Nitr	10.026g		PrepComments:DMadden K-Balance-50
14	K1701351-015	.07	Fire Range Nitr	10.048g		PrepComments:DMadden K-Balance-50
15	K1701351-001 DUP KQ1701866-01	.03	Fire Range Nitr	10.004g		PrepComments:APOSEY K-BALANCE-49
16	K1701351-001 TRP KQ1701866-02	.03	Fire Range Nitr	10.047g		PrepComments:APOSEY K-BALANCE-49
17	K1701351-001 MS KQ1701866-03	.03	Fire Range Nitr	10.007g		PrepComments:APOSEY K-BALANCE-49
18	K1701351-001 DMS KQ1701866-04	.03	Fire Range Nitr	10.017g		PrepComments:APOSEY K-BALANCE-49
19	KQ1701866-05 SRM KQ1701866-05	.01	Fire Range Nitr	10.036	17-OLC-01-13C xp 2.28.17	
20	KQ1701866-06 MB KQ1701866-06	.01	Fire Range Nitr	10.317	Samples 1-10	
21	KQ1701866-07 MB KQ1701866-07	.02	Fire Range Nitr	10.084	11-13, 15	

*% Solids is a calculated field meant solely as a reference value for verifying the presence of Total Solids in calculations

013764 Page 2130 of 4534 11/01/2018

Date: 03/02/2017
By: BR

ALS Environmental
Kelso, WA
Injection Log
LC10 - Agilent 1260

ICAL Date: 12/07/2016
ICAL ID: 15062 (254)
15063 (210)

Stealth ID: KWG1701860 (210)
KWG1701858 (254)
Lims Run #536662,536661

2nd Review: (b) (6) 3/14/17

Column: Phenomenex Synergi Hydro-RP 80A 250x4.6 mm SN 759076-19

Mobile Phases
A: MeOH Lot # 56175 B: ACN Lot # 56165 C: H2O Lot # 56160

Vial	Sample Name	File Name	Method	Dilution	R	Comments
1	PRIMER	0302000201	8330BX+Diaminos.M	N/A		
2	PRIMER	0302000202	8330BX+Diaminos.M	N/A		
3	IB	0302000203	8330BX+Diaminos.M	N/A	✓	
4	17-OLC-01-15H 1ppm	0302000204	8330BX+Diaminos.M	N/A	✓	
5	KWG1701417-9 MB	0302000205	8330BX+Diaminos.M	N/A	✓	
6	KWG1701417-8 LCS	0302000206	8330BX+Diaminos.M	N/A	✓	
7	KWG1701417-6 GB1	0302000207	8330BX+Diaminos.M	N/A	✓	
8	KWG1701417-7 GB2	0302000208	8330BX+Diaminos.M	N/A	✓	
9	KWG1701417-5 SRM	0302000209	8330BX+Diaminos.M	N/A	✓	
10	17-OLC-01-15H 1ppm	0302000210	8330BX+Diaminos.M	N/A	✓	
11	IB	0302000211	8330BX+Diaminos.M	N/A	✓	
12	K1701351-002	0302000212	8330BX+Diaminos.M	N/A	✓	
13	K1701351-003	0302000213	8330BX+Diaminos.M	N/A	✓	
14	K1701351-004	0302000214	8330BX+Diaminos.M	N/A	✓	
15	K1701351-005	0302000215	8330BX+Diaminos.M	N/A	✓	No Before - Nitroglycerin (b) (6)
16	K1701351-006	0302000216	8330BX+Diaminos.M	N/A	✓	No Before - Nitroglycerin
17	K1701351-007	0302000217	8330BX+Diaminos.M	N/A	✓	
18	K1701351-008	0302000218	8330BX+Diaminos.M	N/A	✓	No Before - PETN (b) (6)
19	K1701351-009	0302000219	8330BX+Diaminos.M	N/A	✓	
20	K1701351-010	0302000220	8330BX+Diaminos.M	N/A	✓	
21	17-OLC-01-15H 1ppm	0302000221	8330BX+Diaminos.M	N/A	✓	
22	IB	0302000222	8330BX+Diaminos.M	N/A	✓	No before for Nitroglycerin (b) (6)
23	K1701351-011	0302000223	8330BX+Diaminos.M	N/A	✓	No before for Nitrobenzene
24	K1701351-012	0302000224	8330BX+Diaminos.M	N/A	✓	Not confirmed for 4-2,6 DNT Nitroglycerin
25	K1701351-013	0302000225	8330BX+Diaminos.M	N/A	✓	Confirmed for RDX
26	K1701351-015	0302000226	8330BX+Diaminos.M	N/A	✓	
27	17-OLC-01-15H 1ppm	0302000227	8330BX+Diaminos.M	N/A	✓	
28	IB	0302000228	8330BX+Diaminos.M	N/A	✓	
29	K1701351-001	0302000229	8330BX+Diaminos.M	N/A	✓	
30	K1701351-001 DUP	0302000230	8330BX+Diaminos.M	N/A	✓	
31	K1701351-001 TRP	0302000231	8330BX+Diaminos.M	N/A	✓	
32	K1701351-001 MS	0302000232	8330BX+Diaminos.M	N/A	✓	
33	K1701351-001 DMS	0302000233	8330BX+Diaminos.M	N/A	✓	

Date: 03/02/2017
By: BR

ALS Environmental

Kelso, WA
Injection Log
LC10 - Agilent 1260

ICAL Date: 12/07/2016
ICAL ID: 15062 (254)
15063 (210)

34	17-OLC-01-15H 1ppm	0302000234	8330BX+Diaminos.M	N/A	✓	
35	IB	0302000235	8330BX+Diaminos.M	N/A	✓	
36	K1701470-4 MB	0302000236	8330BX+Diaminos.M	100x		Re-run with dilution
37	K1701470-3 LCS	0302000237	8330BX+Diaminos.M	100x		Re-run with dilution
38	K1701485-002	0302000238	8330BX+Diaminos.M	100x		Re-run with dilution
39	K1701485-003	0302000239	8330BX+Diaminos.M	100x		Re-run with dilution
40	K1701485-004	0302000240	8330BX+Diaminos.M	100x		Re-run with dilution
41	K1701485-005	0302000241	8330BX+Diaminos.M	100x		Re-run with dilution
42	K1701485-006	0302000242	8330BX+Diaminos.M	100x		Re-run with dilution
43	K1701485-007	0302000243	8330BX+Diaminos.M	100x		Re-run with dilution
44	K1701485-008	0302000244	8330BX+Diaminos.M	100x		Re-run with dilution
45	17-OLC-01-15H 1ppm	0302000245	8330BX+Diaminos.M	N/A		
46	IB	0302000246	8330BX+Diaminos.M	N/A		
47	K1701485-009	0302000247	8330BX+Diaminos.M	100x		Re-run with dilution
48	K1701485-010	0302000248	8330BX+Diaminos.M	100x		Re-run with dilution
49	K1701485-011	0302000249	8330BX+Diaminos.M	100x		Re-run with dilution
50	K1701485-012	0302000250	8330BX+Diaminos.M	100x		Re-run with dilution
51	K1701485-001	0302000251	8330BX+Diaminos.M	100x		Re-run with dilution
52	K1701485-001 MS	0302000252	8330BX+Diaminos.M	100x		Re-run with dilution
53	K1701485-001 DMS	0302000253	8330BX+Diaminos.M	100x		Re-run with dilution
54	17-OLC-01-15H 1ppm	0302000254	8330BX+Diaminos.M	N/A		
55	IB	0302000255	8330BX+Diaminos.M	N/A		
56	Primer	0302000256	8330BX+Diaminos.M	N/A		
57	Primer	0302000257	8330BX+Diaminos.M	N/A		
58	Primer	0302000258	8330BX+Diaminos.M	N/A		

Date: 3/3/2017_8330-254 -210

By: (b) (6) 3/17/17

Stealth ID: KWG1702121

Injection Log
LC8 - Agilent 1260

ICAL Date: 2/9/2017

ICAL ID: CAL 15185 (210)

LIMS ID: [redacted]

2nd Review: (b) (6)

Column: Restek Ultra Aromax SN: 15051755J

MeOH Lot#: ACN Lot#:

Mobile Phases A: 56217 **B:** 56207 **C:** H_2O Lot#: 56160 **D:**

	Sample Name	File Name	Method	Dilution	R	Comments
21	17-OLC-01-15H 1ppm	303000121	8330BXC.M	NA	X	
22	IB	303000122	8330BXC.M	NA	X	
24	K1701351-012	303000124	8330BXC.M	NA	X	Confirmed for Nitroglycerin
21	17-OLC-01-15H 1ppm	303000127	8330BXC.M	NA	X	
28	IB	303000128	8330BXC.M	NA	X	
21	17-OLC-01-15H 1ppm	303000134	8330BXC.M	NA	X	
22	IB	303000135	8330BXC.M	NA	X	
24	K1701485-008	303000144	8330BXC.M	NA	X	Not confirmed for Nitroglycerin
21	17-OLC-01-15H 1ppm	303000145	8330BXC.M	NA	X	
28	IB	303000146	8330BXC.M	NA	X	

Not needed

Q = update continuing cal.

Date: 3/3/2017

ALS Environmental

ICAL Date: 2/9/2017

By: (b) (6)

Injection Log
LC8 - Agilent 1260

ICAL ID: CAL 15192 (254)

Stealth ID: KWG1701417

LIMS ID: 52662

2nd Review: (b) (6)

Column: Restek Ultra Aromax SN: 15051755J

MeOH Lot#: ACN Lot#:

Mobile Phases A: 56217 **B:** 56207 **C:** H_2O Lot#: 56160 **D:**

	Sample Name	File Name	Method	Dilution	R	Comments
21	17-OLC-01-15H 1ppm	303000121	8330BXC.M	NA	X	
22	IB	303000122	8330BXC.M	NA	X	
24	K1701351-012	303000124	8330BXC.M	NA	X	4-2,6 DNT
25	K1701351-013	303000125	8330BXC.M	NA	X	RDX
27	17-OLC-01-15H 1ppm	303000127	8330BXC.M	NA	X	
28	IB	303000128	8330BXC.M	NA	X	

Q = update continuing cal.

Date: 02/15/17 - 254
By: AE

ALS Environmental
Kelso, WA
Injection Log
LC10 - Agilent 1260

ICAL Date: 12/07/2016
ICAL ID: 15062 (254)
15063 (210)

Stealth ID: KWG1701307 (210)
KWG1701308 (254)
Lims Run # 534875

2nd Review: (b) (6) [redacted]

Column: Phenomenex Synergi Hydro-RP 80A 250x4.6 mm SN 759076-19

Mobile Phases						
A: MeOH Lot # 56175			B: ACN Lot # 56165			C: H2O Lot # 56160
Vial	Sample Name	File Name	Method	Dilution	R	Comments
1	PRIMER	0215000101	8330BX+Diaminos.M	N/A		
2	PRIMER	0215000102	8330BX+Diaminos.M	N/A		
3	IB	0215000103	8330BX+Diaminos.M	N/A	✓	
4	17-OLC-01-12A 1000 PPB	0215000104	8330BX+Diaminos.M	N/A	✓	
5	KWG1701092-4 MB	0215000105	8330BX+Diaminos.M	N/A	✓	3-NT
6	KWG1701217-3 MB	0215000106	8330BX+Diaminos.M	N/A	✓	3-NT
7	KWG1701092-3 LCS	0215000107	8330BX+Diaminos.M	N/A	✓	
8	KWG1701217-1 LCS	0215000108	8330BX+Diaminos.M	N/A	✓	
9	KWG1701217-2 DLCS	0215000109	8330BX+Diaminos.M	N/A	✓	
10	K1701351-016	0215000110	8330BX+Diaminos.M	N/A	✓	No hits
11	K1701351-017	0215000111	8330BX+Diaminos.M	N/A	✓	2-NT
12	K1701351-018	0215000112	8330BX+Diaminos.M	N/A	✓	3-NT
13	K1701183-001	0215000113	8330BX+Diaminos.M	N/A	✓	2,4,6-TNT, 4-Am-2,6-DNT
14	K1701183-001 MS	0215000114	8330BX+Diaminos.M	N/A	✓	
15	K1701183-001 DMS	0215000115	8330BX+Diaminos.M	N/A	✓	
16	3-NT SONIC	0215000116	8330BX+Diaminos.M	N/A		
17	3-NT CONTROL	0215000117	8330BX+Diaminos.M	N/A		
18	17-OLC-01-12A 1000 PPB	0215000118	8330BX+Diaminos.M	N/A	✓	
19	IB	0215000119	8330BX+Diaminos.M	N/A	✓	

Date: 12/7/2016 **ALS Kelso, WA** **ICAL Date:** 12/7/2016

By: AE **Injection Log** **ICAL ID:** (254)-15062 (210)-15063

Stealth ID: n/a **LC10 - Agilent 1260** **LIMS ID:** **2nd Review:** n/a (b) (6)

Column: Phen. Synergi Hydro-RP 80A 250x4.6 mm SN 759076-19

Mobile Phases A: MeOH Lot#: 56175 **B:** ACN Lot#: 56165 **C:** H_2O Lot#: 56006 **D:**

	Sample Name	File Name	Method	Dilution	R	Comments
1		12070000101	8330BX+DIAMINOS.M	NA		
2		12070000102	8330BX+DIAMINOS.M	NA		
3		1207000202	8330BX+DIAMINOS.M	NA		
4		1207000203	8330BX+DIAMINOS.M	NA		
5		1207000204	8330BX+DIAMINOS.M	NA		
6		1207000205	8330BX+DIAMINOS.M	NA		
7		1207000206	8330BX+DIAMINOS.M	NA		
8		1207000207	8330BX+DIAMINOS.M	NA		
9		1207000303	8330BX+DIAMINOS.M	NA		
10		1207000404	8330BX+DIAMINOS.M	NA		
11		1207000405	8330BX+DIAMINOS.M	NA		
12		1207000505	8330BX+DIAMINOS.M	NA		
13		1207000601	8330BX+DIAMINOS.M	NA		
14		1207000602	8330BX+DIAMINOS.M	NA		
15		1207000603	8330BX+DIAMINOS.M	NA		
16		1207000701	8330BX+DIAMINOS.M	NA		
17		1207000702	8330BX+DIAMINOS.M	NA		
18	IB	1207000703	8330BX+DIAMINOS.M	NA	X	
19	16-OLC-01-89J 20 PPB	1207000704	8330BX+DIAMINOS.M	NA	X	
20	16-OLC-01-89I 50 PPB	1207000705	8330BX+DIAMINOS.M	NA	X	
21	16-OLC-01-89H 100 PPB	1207000706	8330BX+DIAMINOS.M	NA	X	
22	16-OLC-01-89G 200 PPB	1207000707	8330BX+DIAMINOS.M	NA	X	
23	16-OLC-01-89F 500 PPB	1207000708	8330BX+DIAMINOS.M	NA	X	
24	16-OLC-01-89E 1000 PPB	1207000709	8330BX+DIAMINOS.M	NA	X	
25	16-OLC-01-89D 2000 PPB	1207000710	8330BX+DIAMINOS.M	NA	X	
26	16-OLC-01-89C 5000 PPB	1207000711	8330BX+DIAMINOS.M	NA	X	
27	16-OLC-01-89B 10000 PPB	1207000712	8330BX+DIAMINOS.M	NA	X	
28	16-OLC-01-89A 20000 PPB	1207000713	8330BX+DIAMINOS.M	NA	X	
29	IB	1207000714	8330BX+DIAMINOS.M	NA	X	
30	16-OLC-01-89K 10000 PPB ICV	1207000715	8330BX+DIAMINOS.M	NA	X	

(Cal not valid for Diaminos)

FM

R:\OLC\Injection Logs\LC10 2016\INJLOG_LC10_xl_120716_ICAL

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000703.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 19:36:44 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:14:56 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:09:42 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
Target Compounds						
1) T	Nitroglycerin	0.000	0	N.D.	ug/L	d
2) T	PETN	27.763	156171	8.404	ug/L	

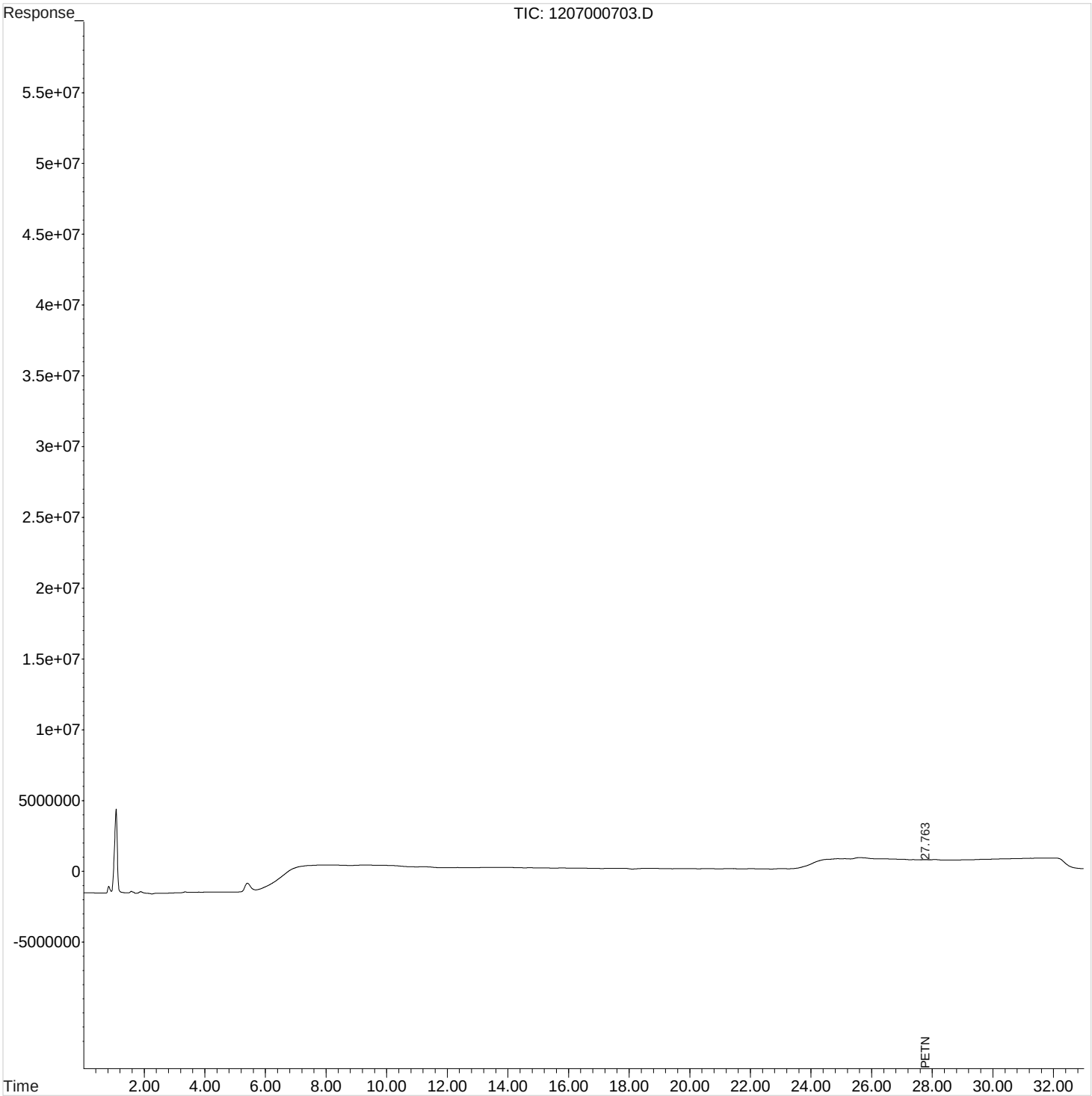
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000703.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 19:36:44 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:14:56 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:09:42 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:04 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.707	3217434	NoCal	ug/L	m
Target Compounds						
1) T	Nitroglycerin	16.654	1445069	NoCal	ug/L	m
2) T	PETN	27.787	1323782	NoCal	ug/L	m

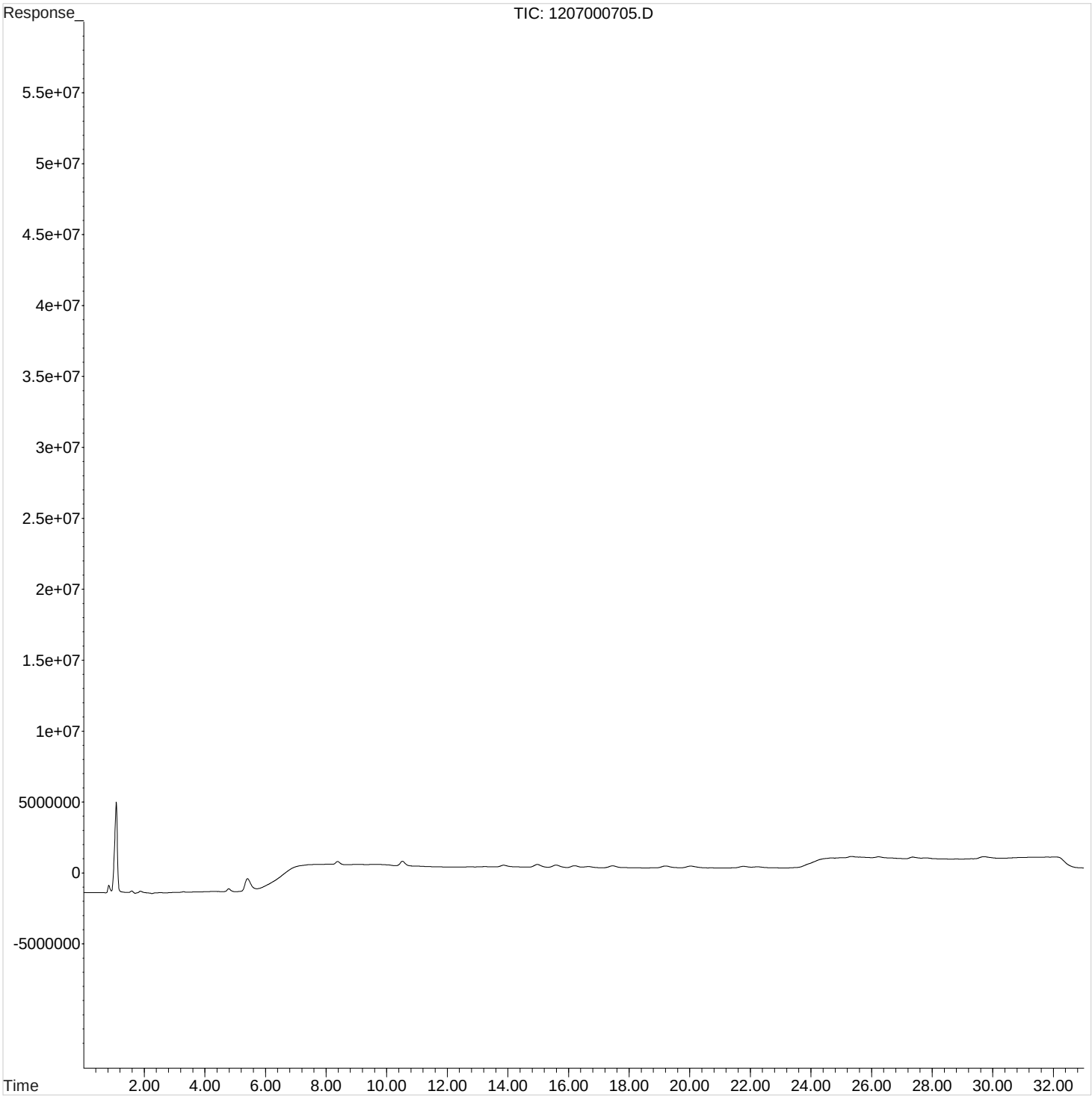
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:04 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

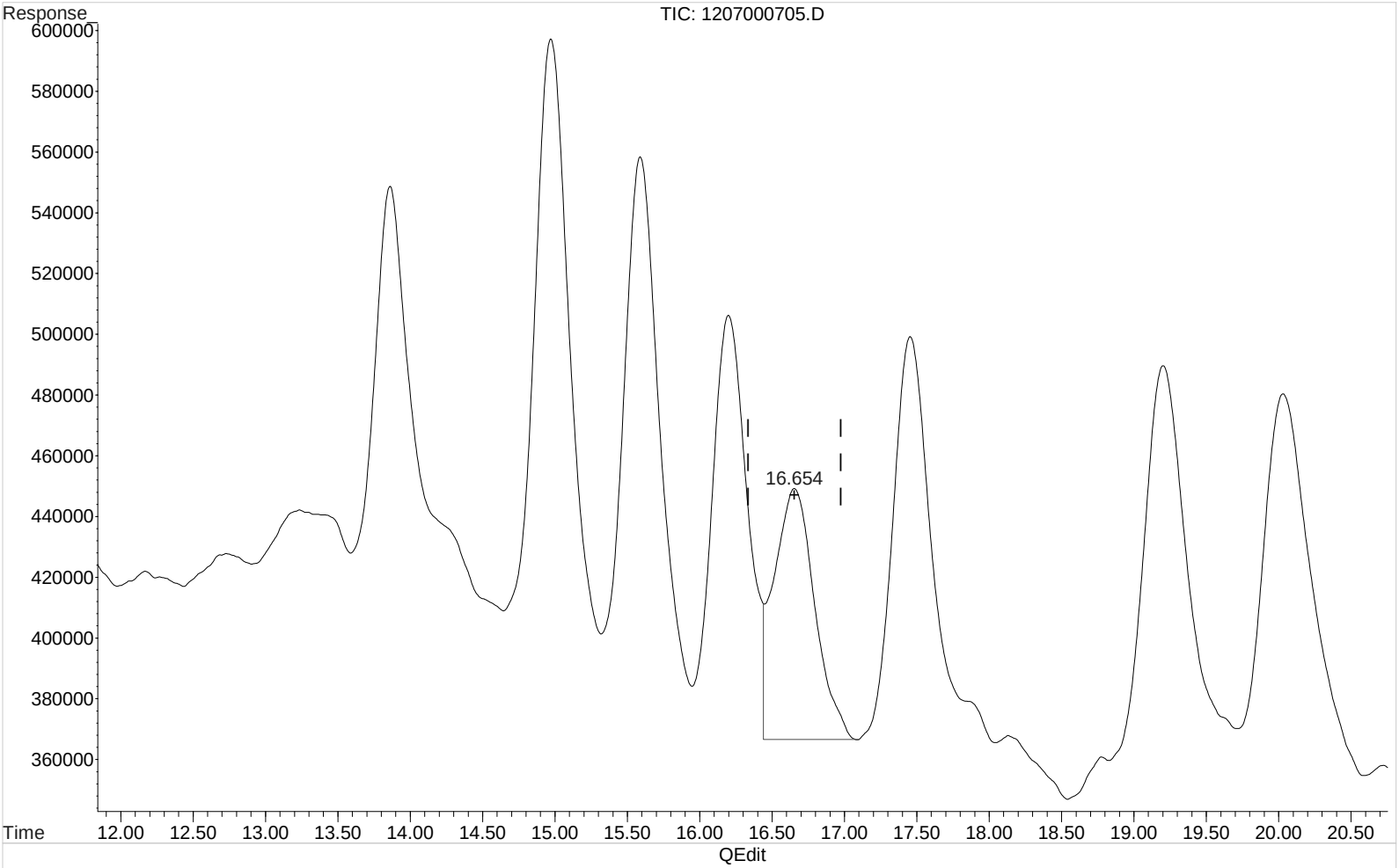


(b) (6) /08/16 /09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:26:17 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.654min 0.000 ug/L

response 1614875

Manual Integration:

Before

12/08/16

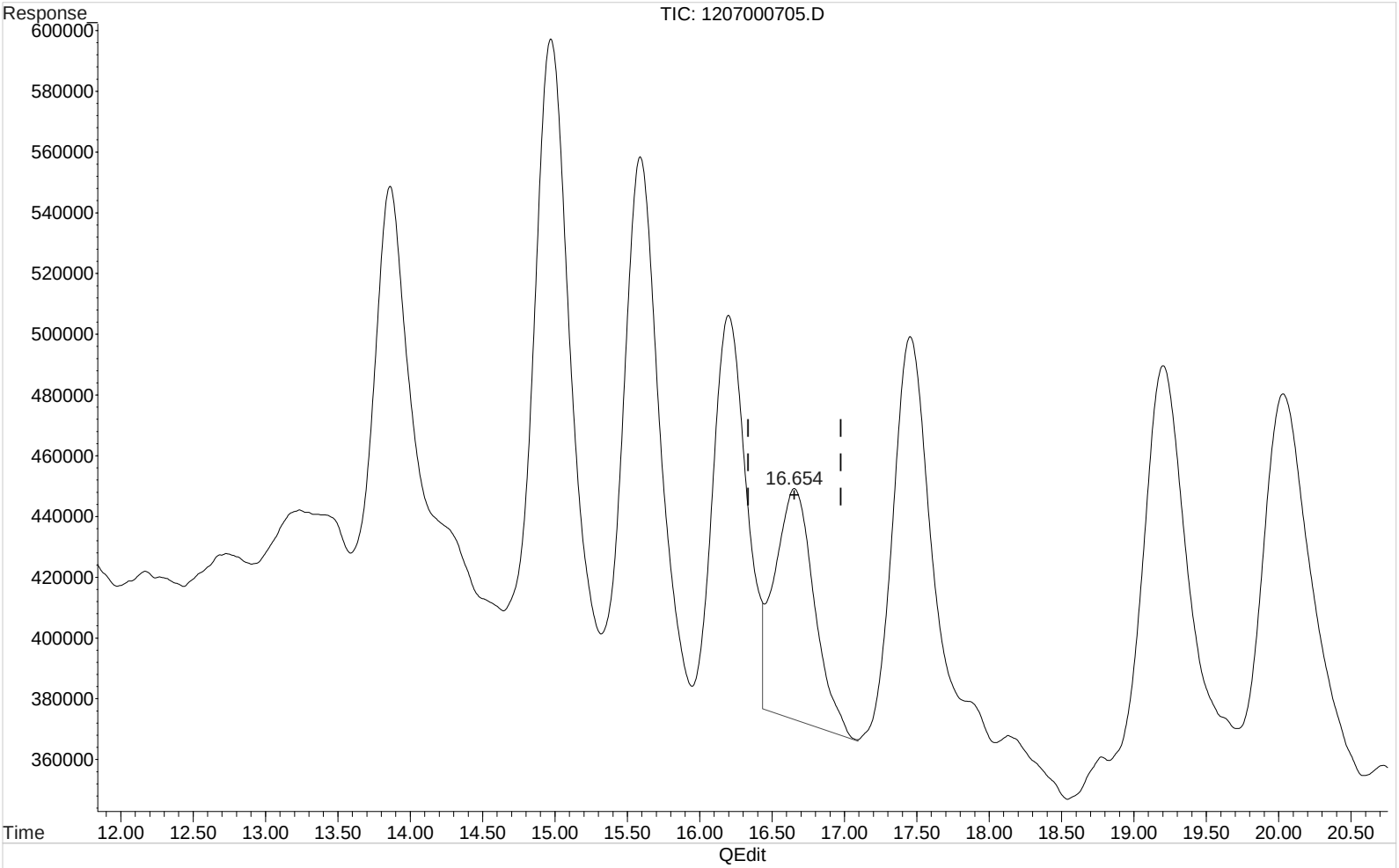
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:26:17 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.654min 0.000 ug/L m

response 1445069

Manual Integration:

After

BLC

12/08/16

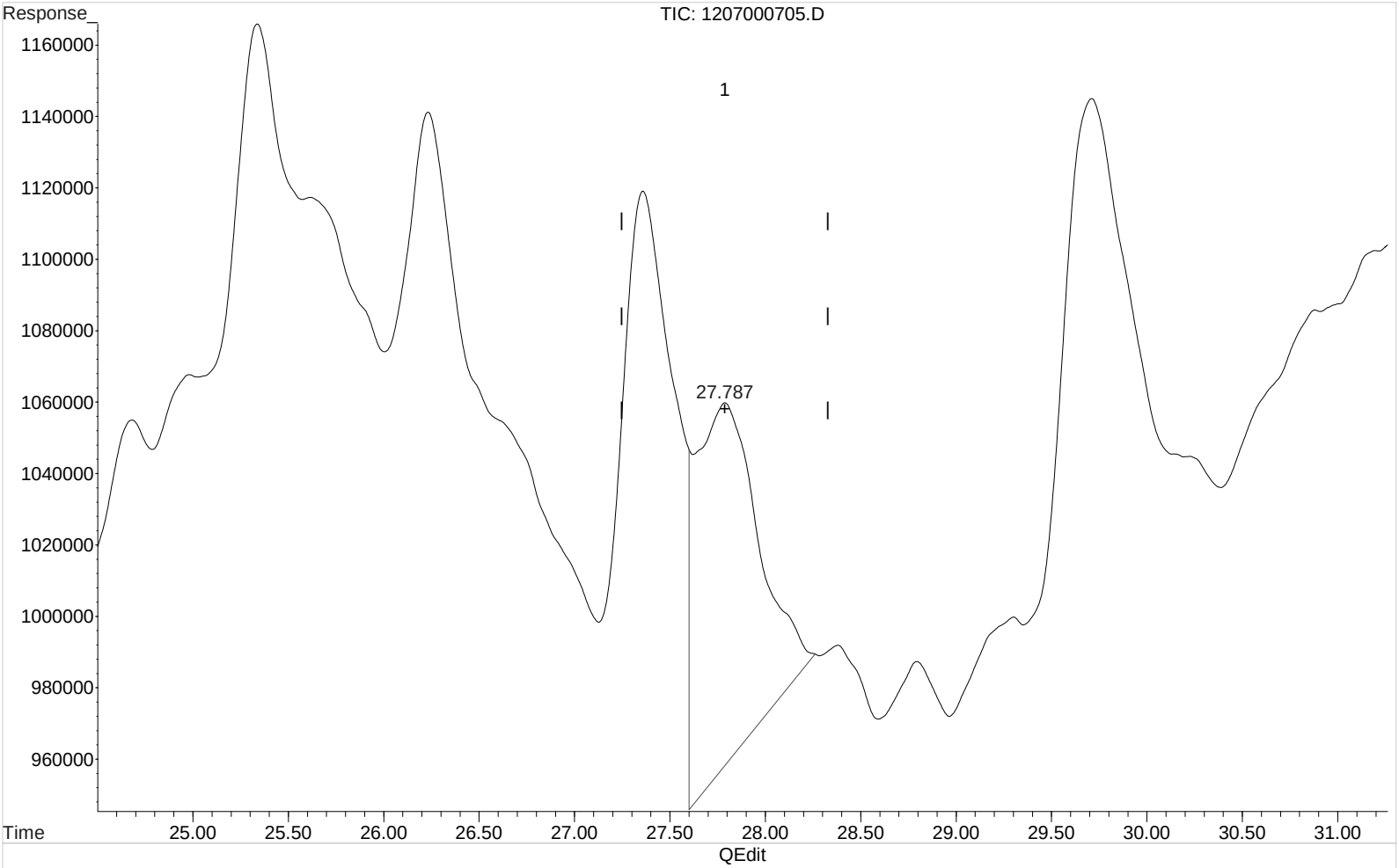
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:26:17 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.787min 0.000 ug/L

response 2332366

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

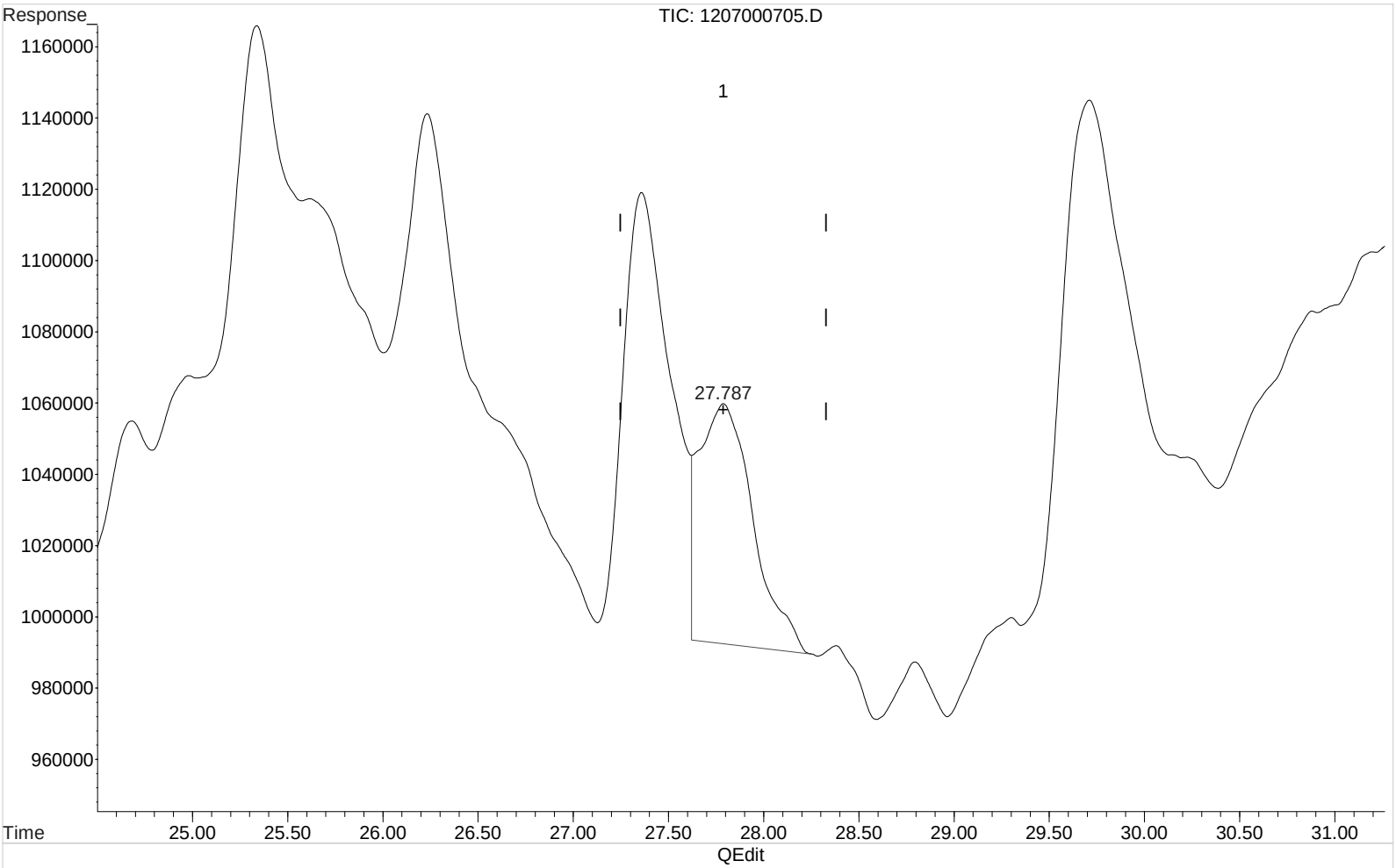
/08/16

/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:26:17 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.787min 0.000 ug/L m

response 1323782

Manual Integration:

After

BLC

12/08/16

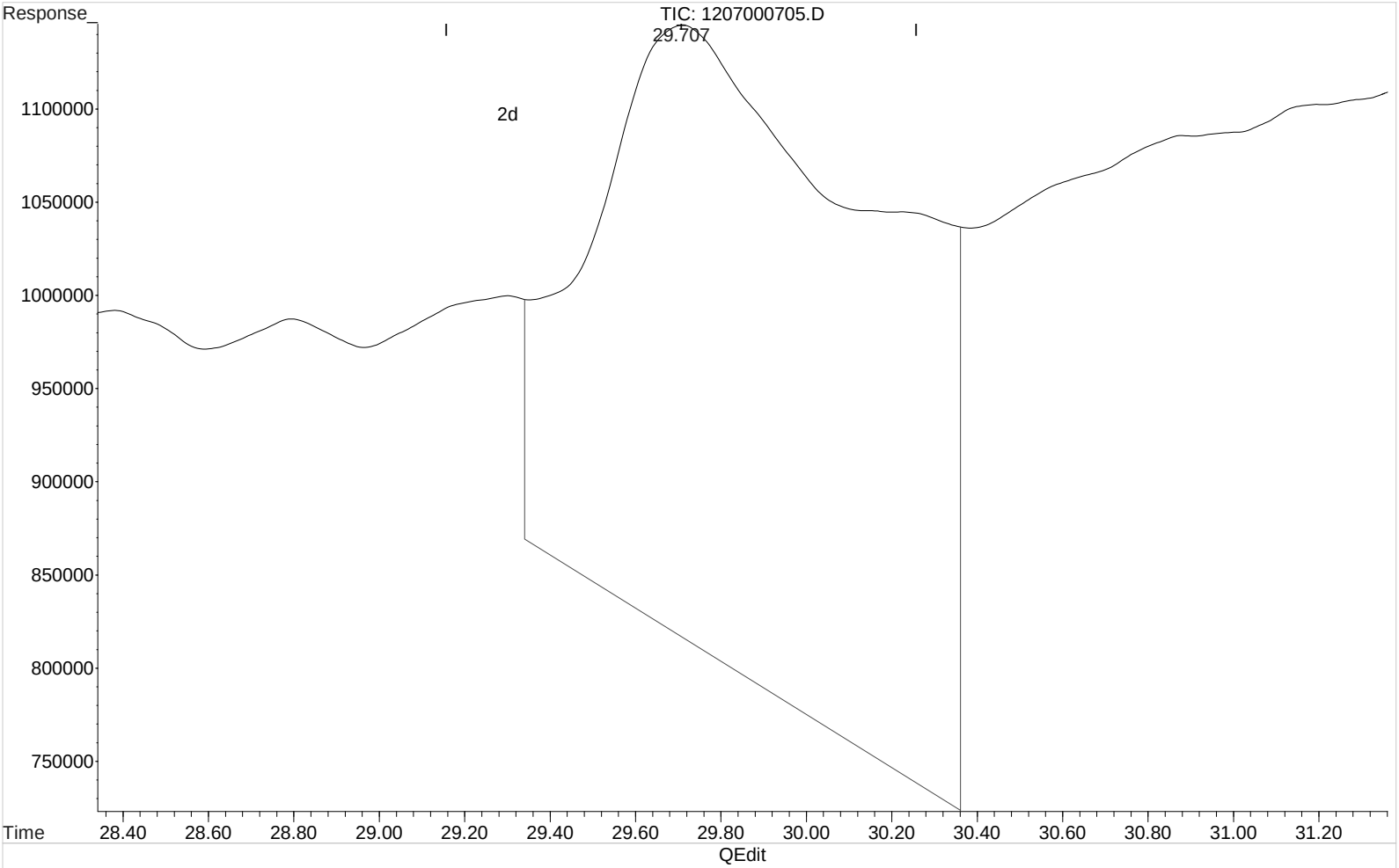
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:26:17 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.707min 0.000 ug/L

response 16661309

Manual Integration:

Before

12/08/16

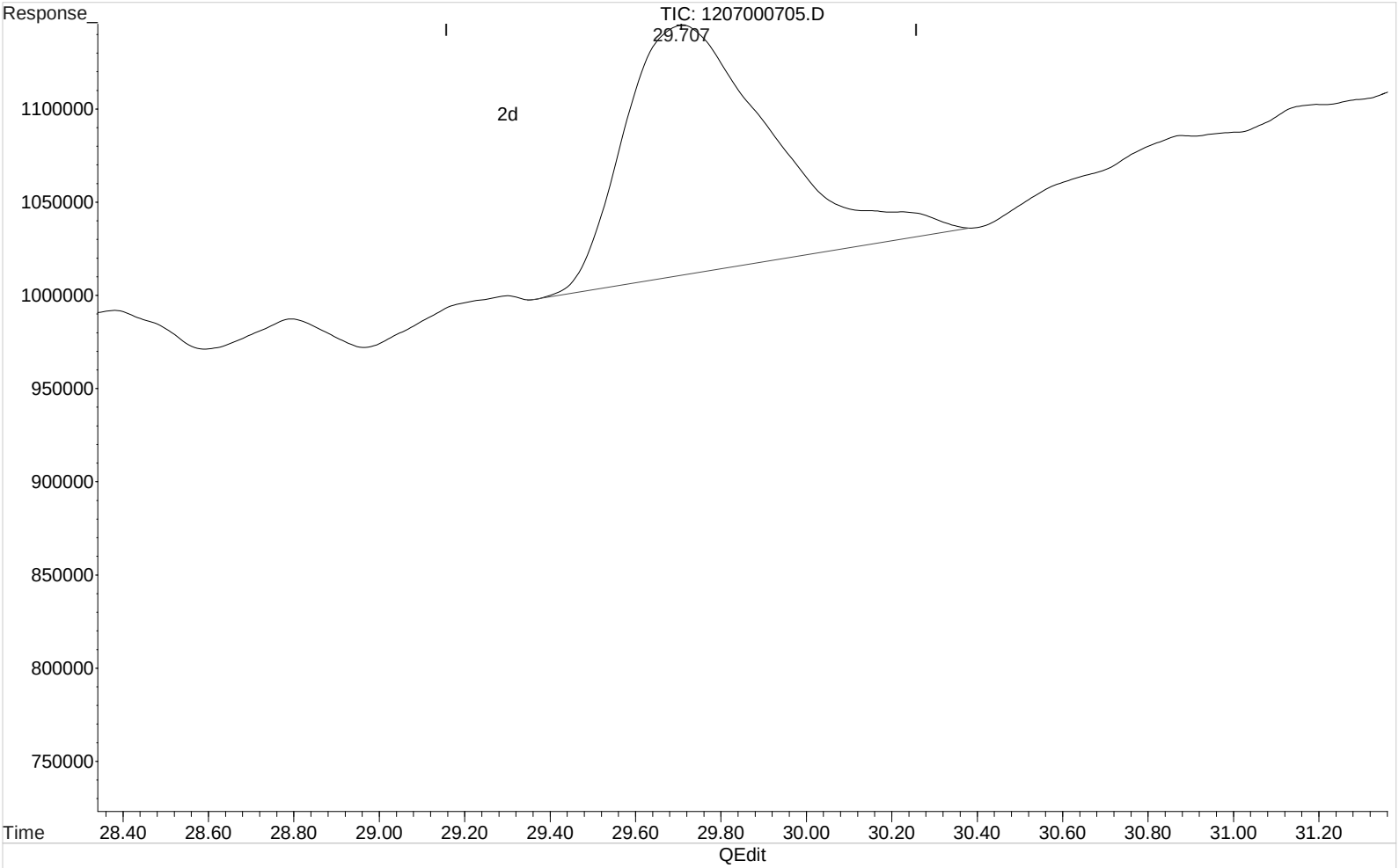
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:26:17 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

29.707min 0.000 ug/L m

response 3217434

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:28:57 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	29.681	5676794	88.219 ug/L m
Target Compounds				
1) T	Nitroglycerin	16.655	2024810	70.059 ug/L m
2) T	PETN	27.755	1480479	55.919 ug/L m

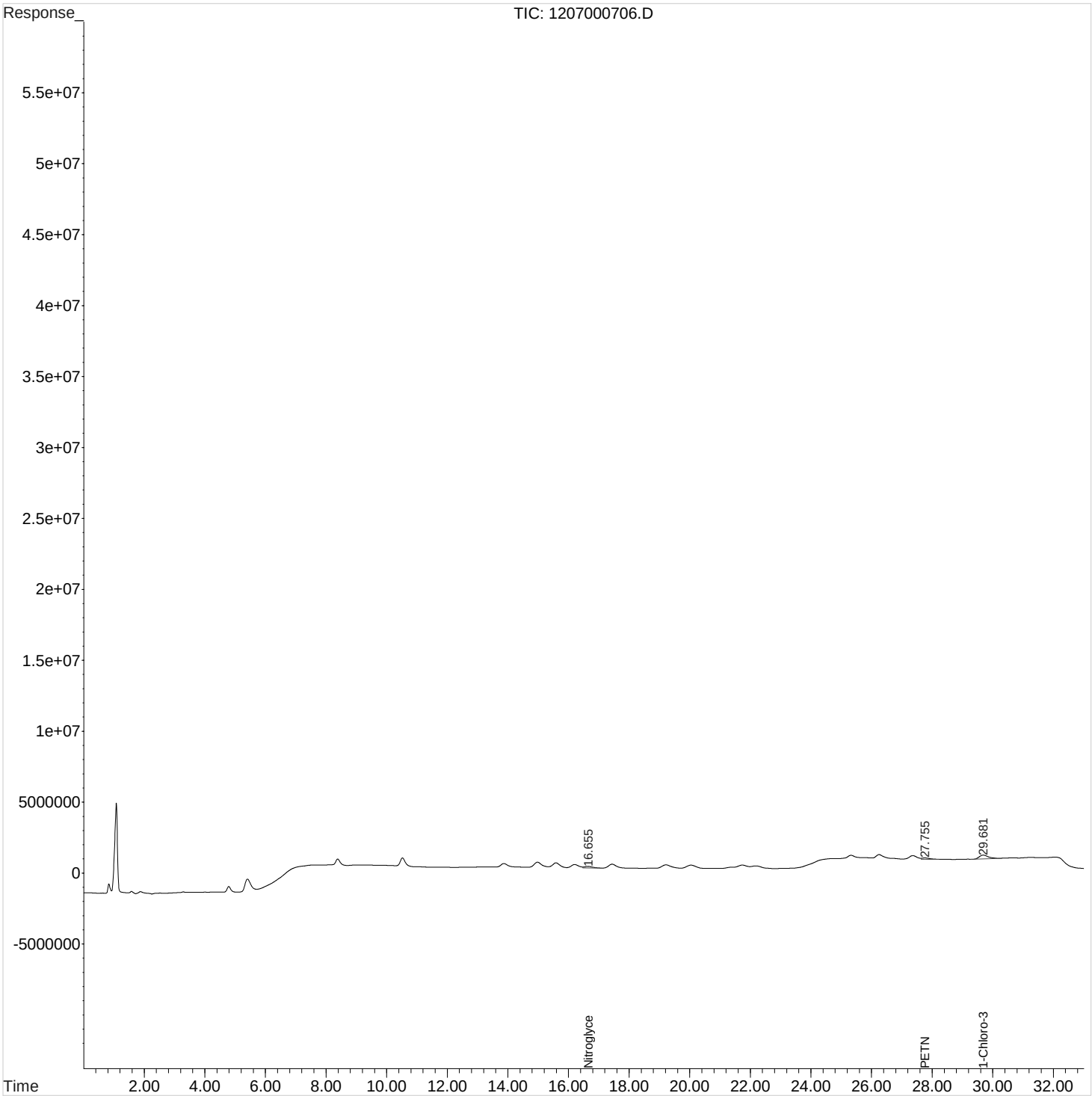
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:28:57 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

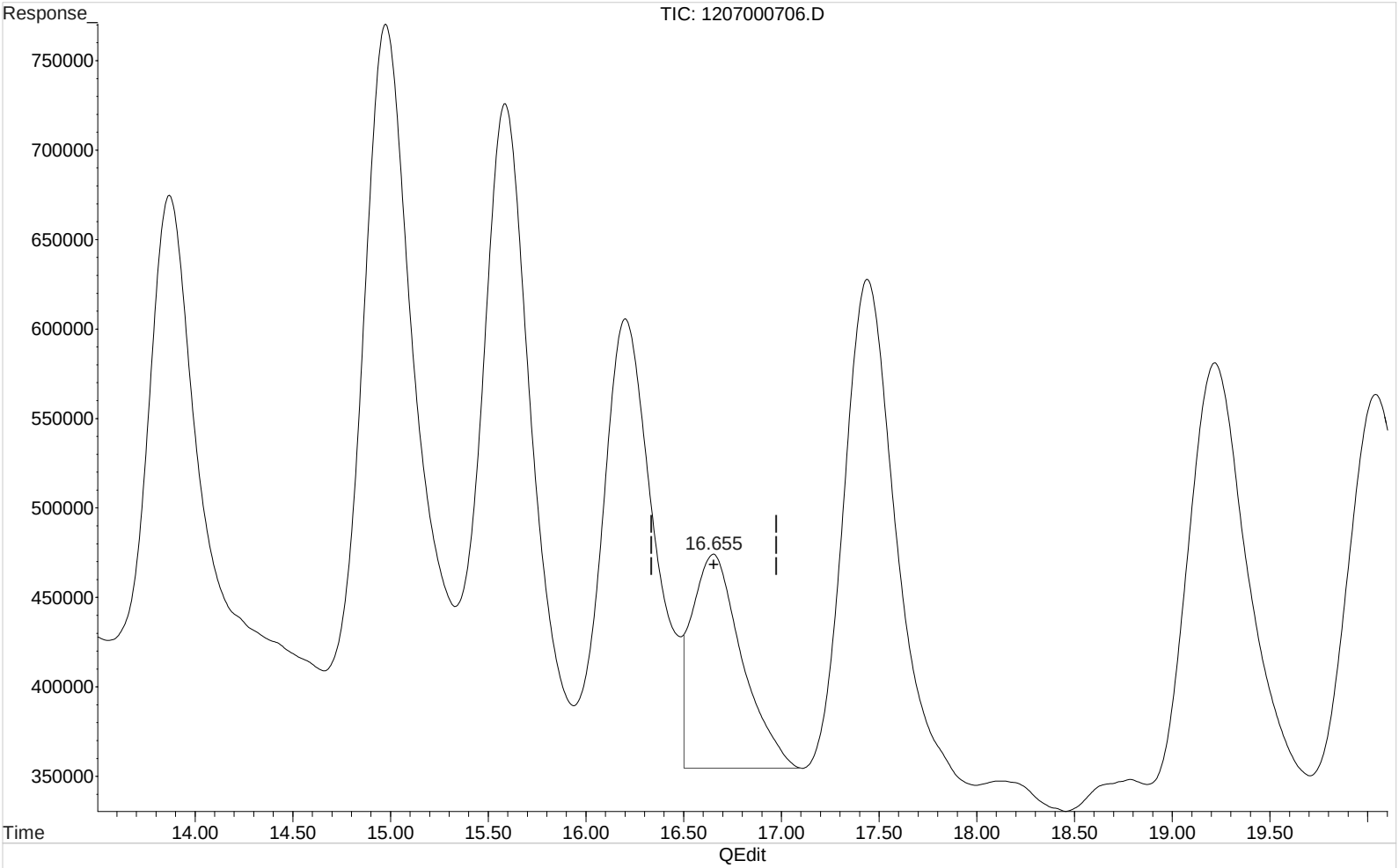


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.655min 73.227 ug/L

response 2116350

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

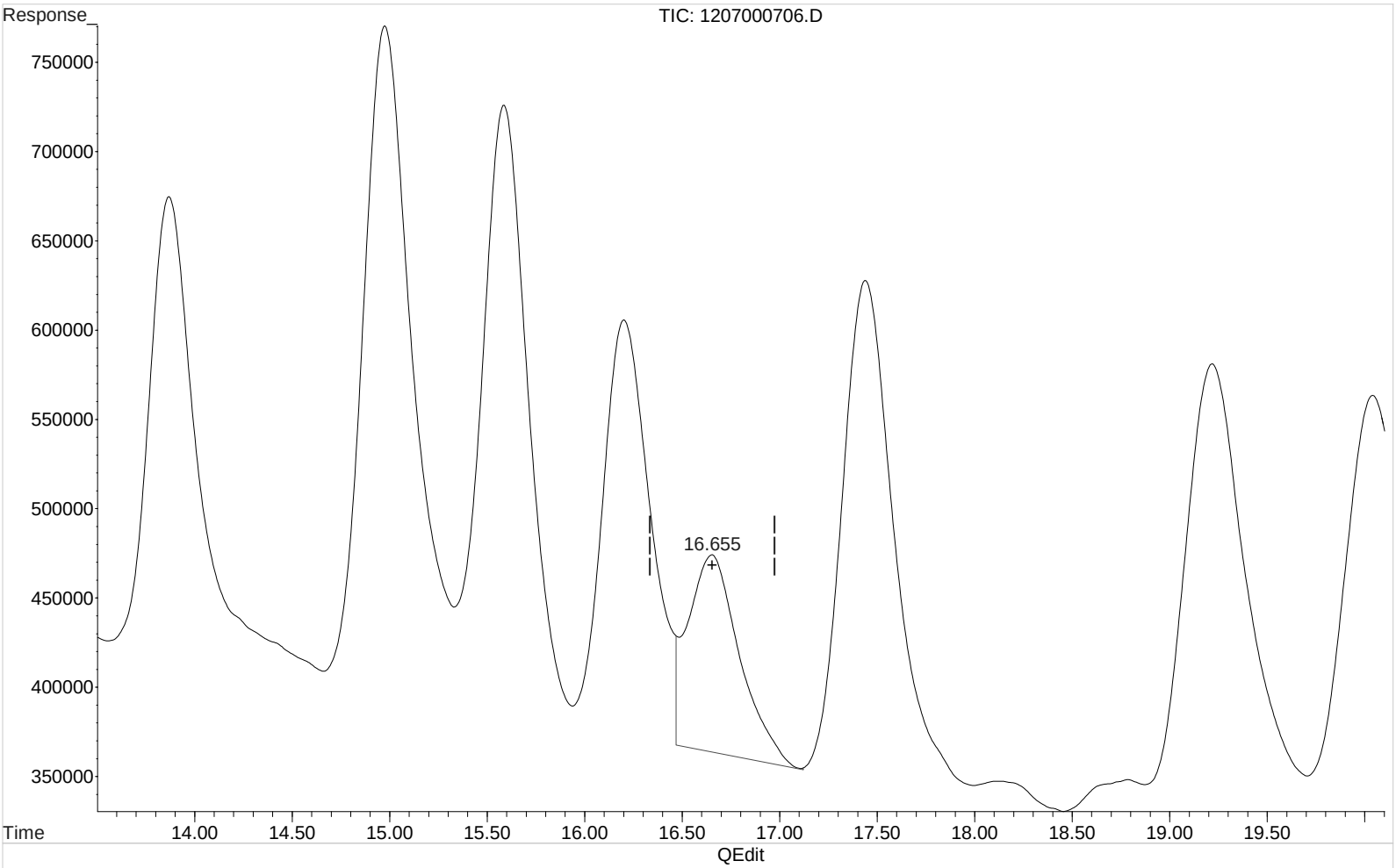
/08/16

/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.655min 70.059 ug/L m

response 2024810

Manual Integration:

After

BLC

12/08/16

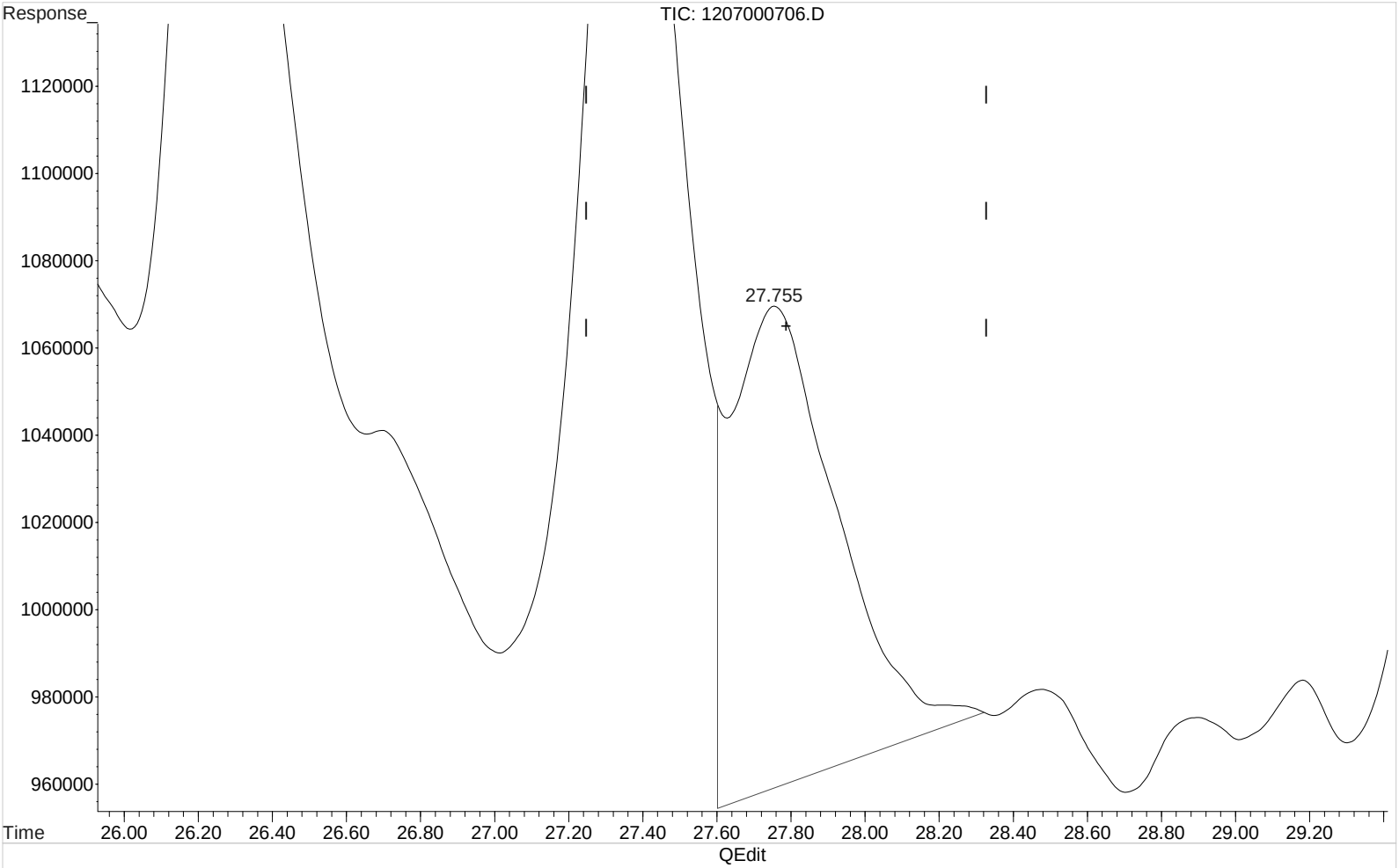
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.755min 83.103 ug/L

response 2200200

Manual Integration:

Before

12/08/16

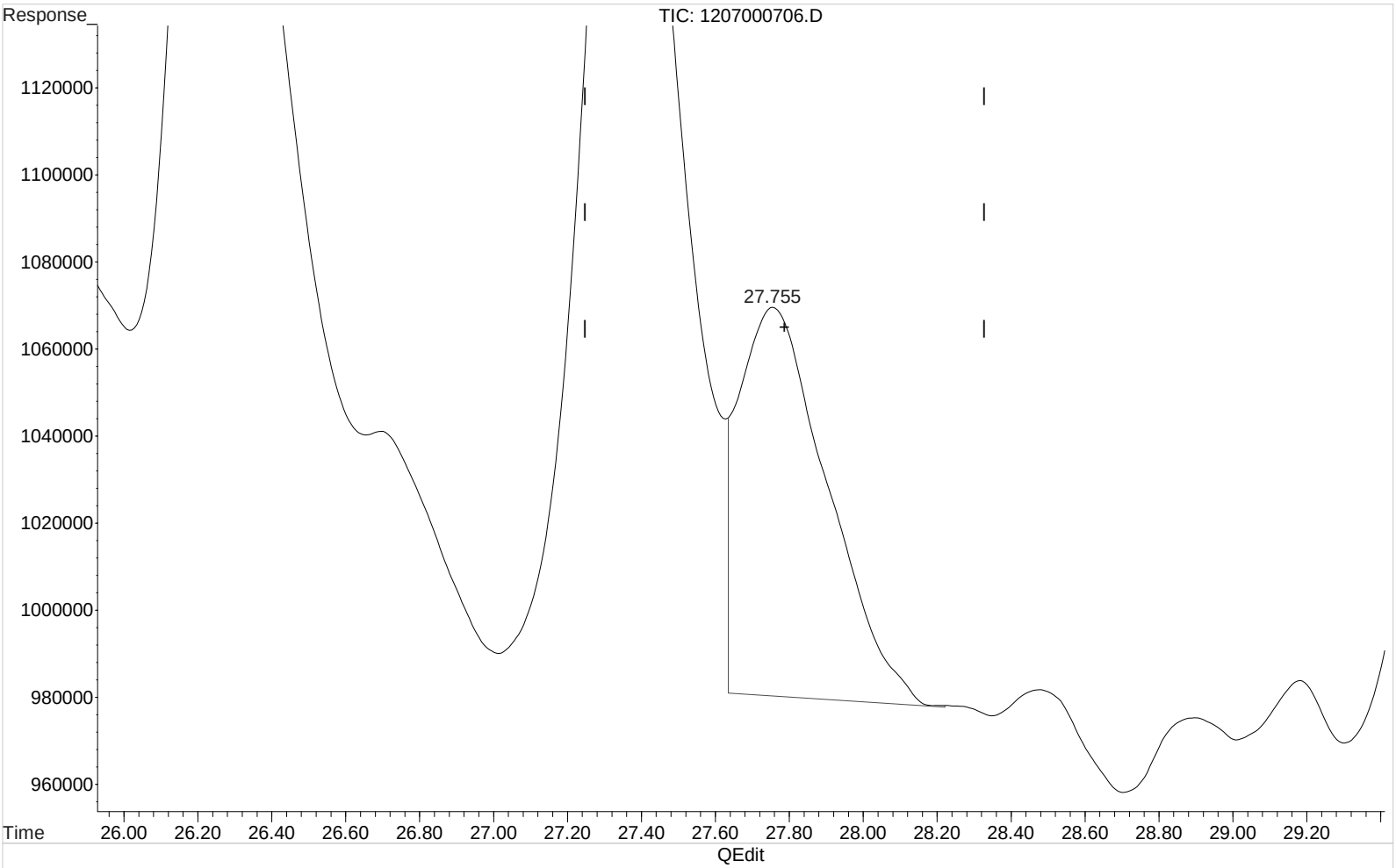
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.755min 55.919 ug/L m

response 1480479

Manual Integration:

After

BLC

12/08/16

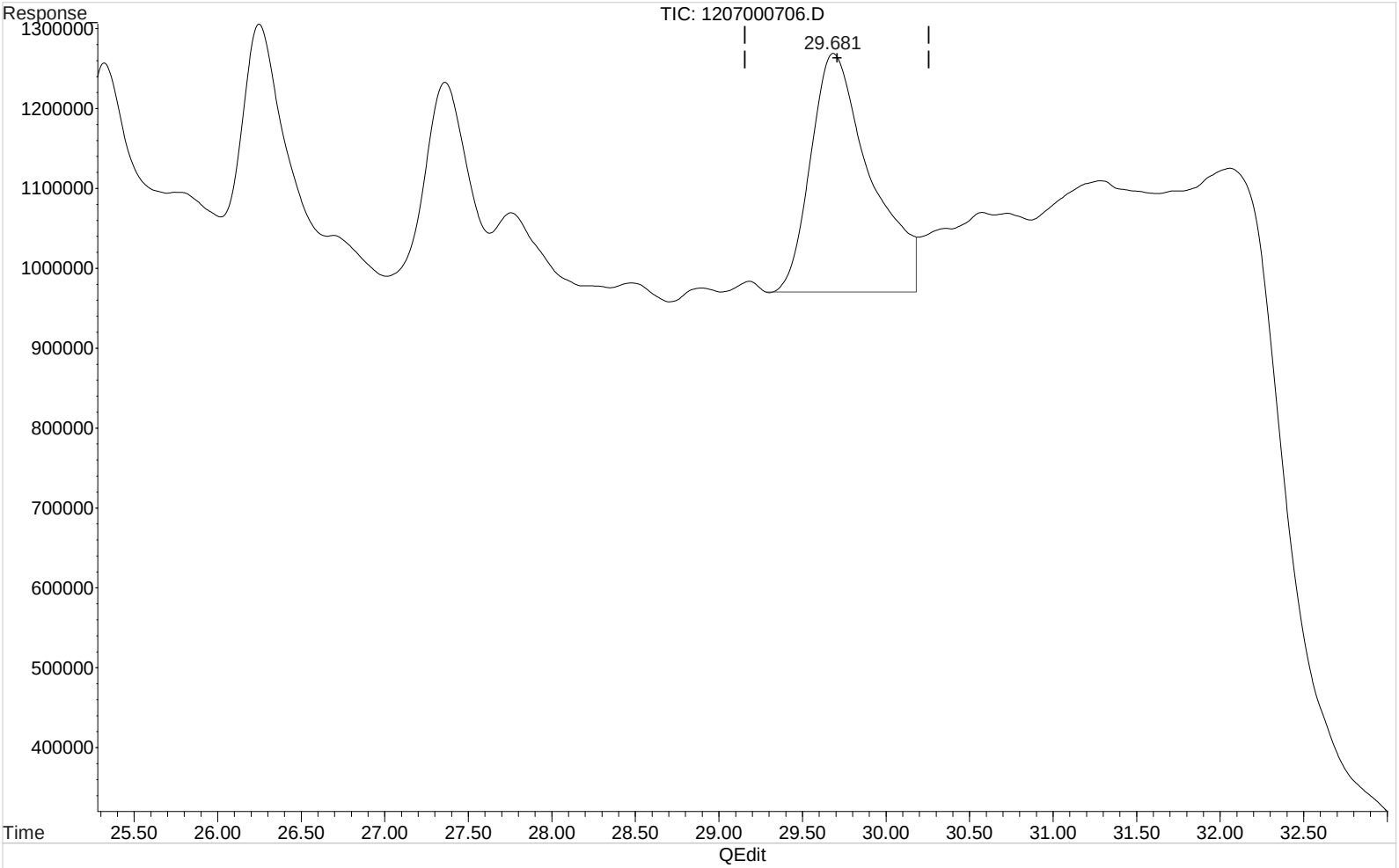
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.681min 115.316 ug/L

response 7420411

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

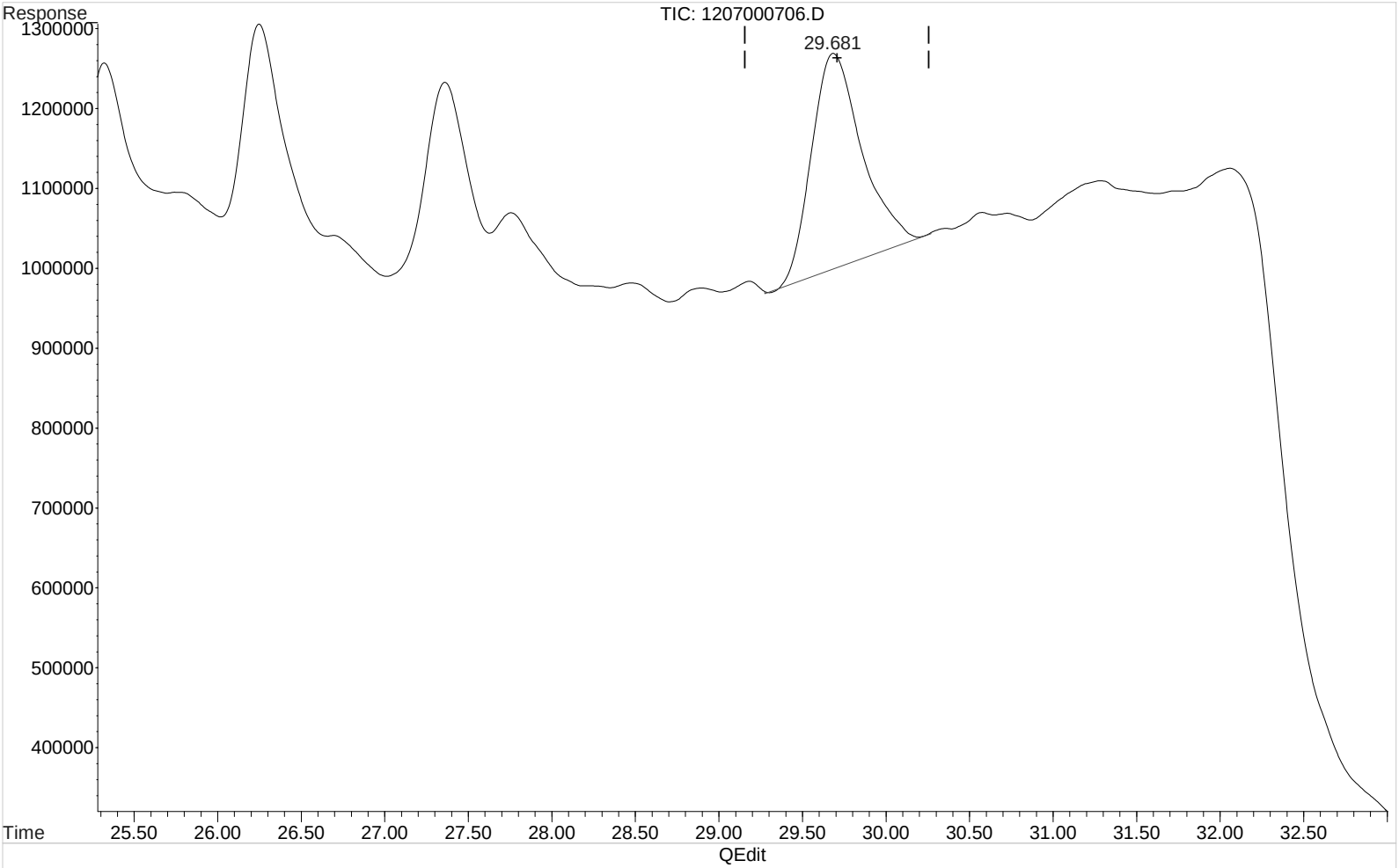
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

29.681min 88.219 ug/L m

response 5676794

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:07:38 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	29.700	11544733	190.638 ug/L m
Target Compounds				
1) T	Nitroglycerin	16.646	3508399	142.764 ug/L m
2) T	PETN	27.773	3761772	182.254 ug/L m

(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)

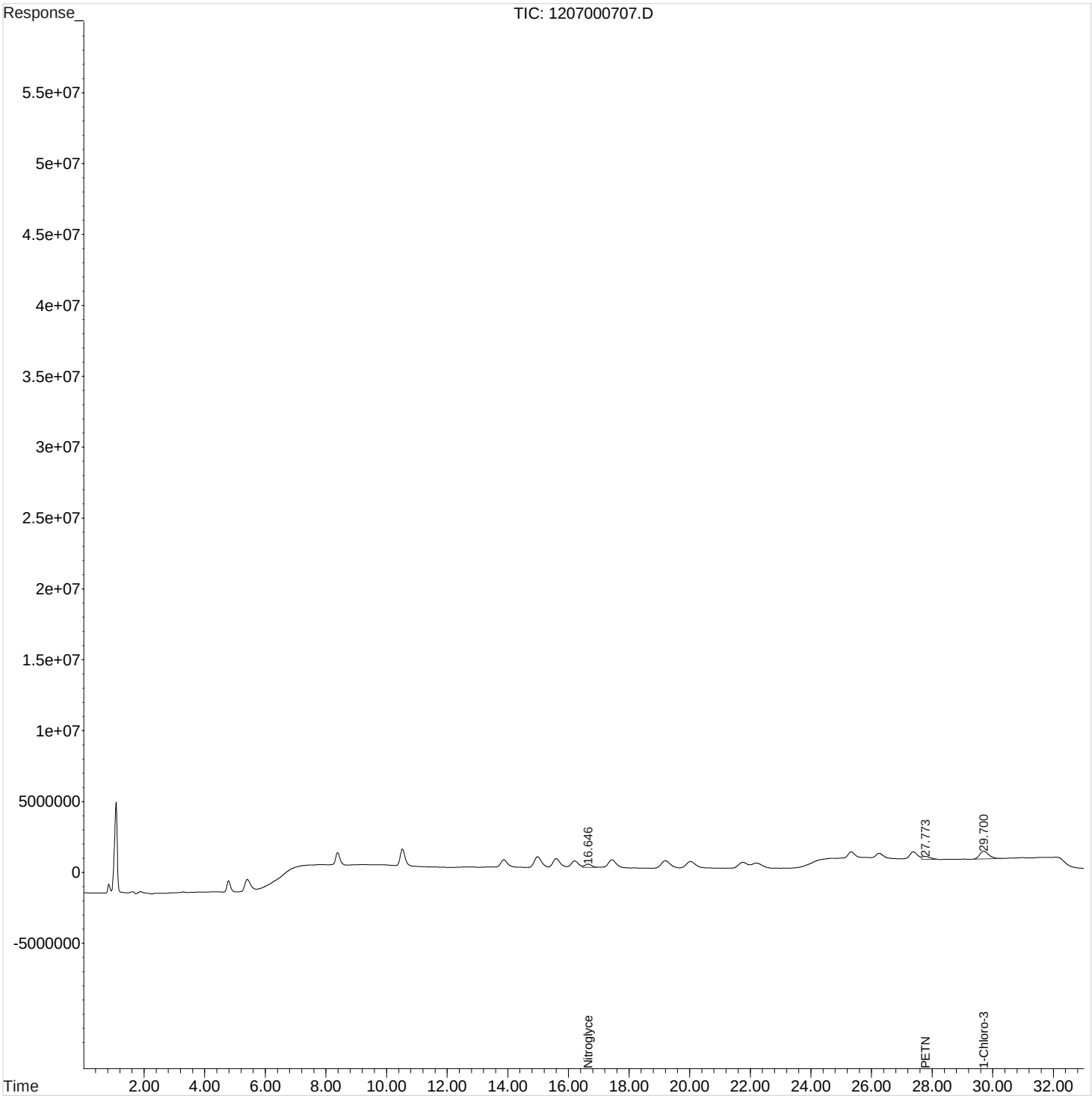
2/08/16

2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:07:38 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(b) (6)

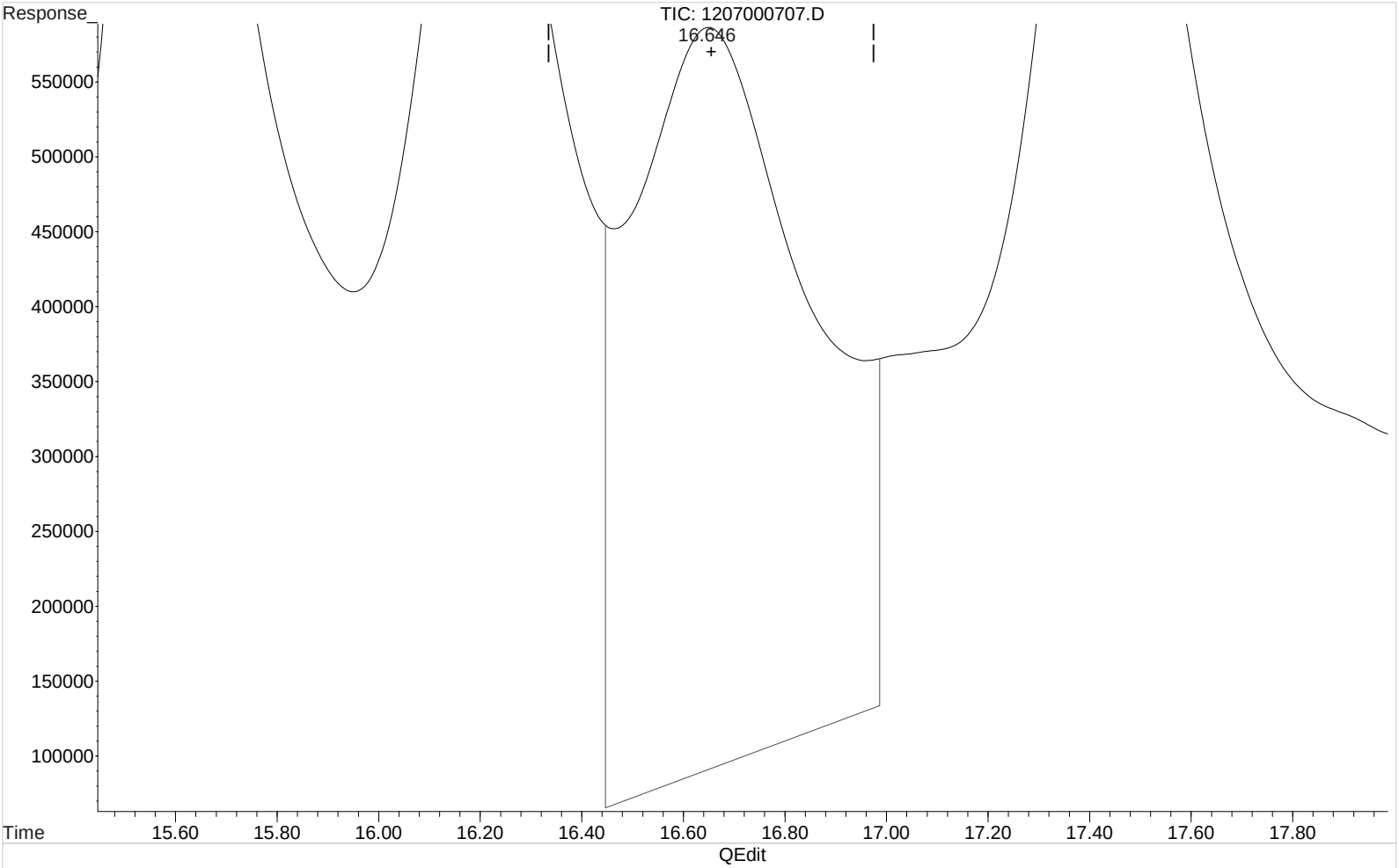
2/08/16

2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:29:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.646min 492.695 ug/L

response 12107848

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

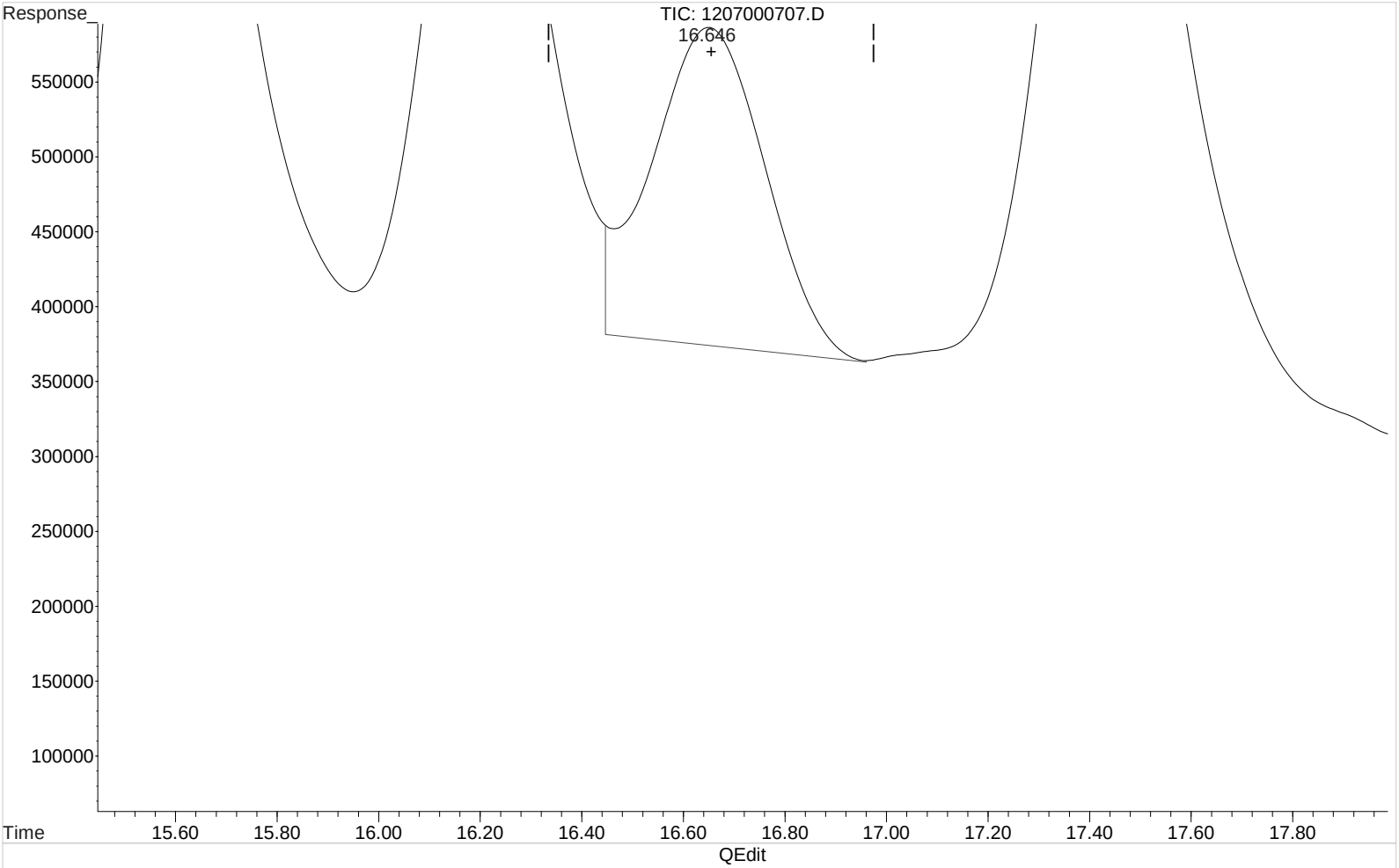
2/08/16

2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:29:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.646min 133.721 ug/L m

response 3286165

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)

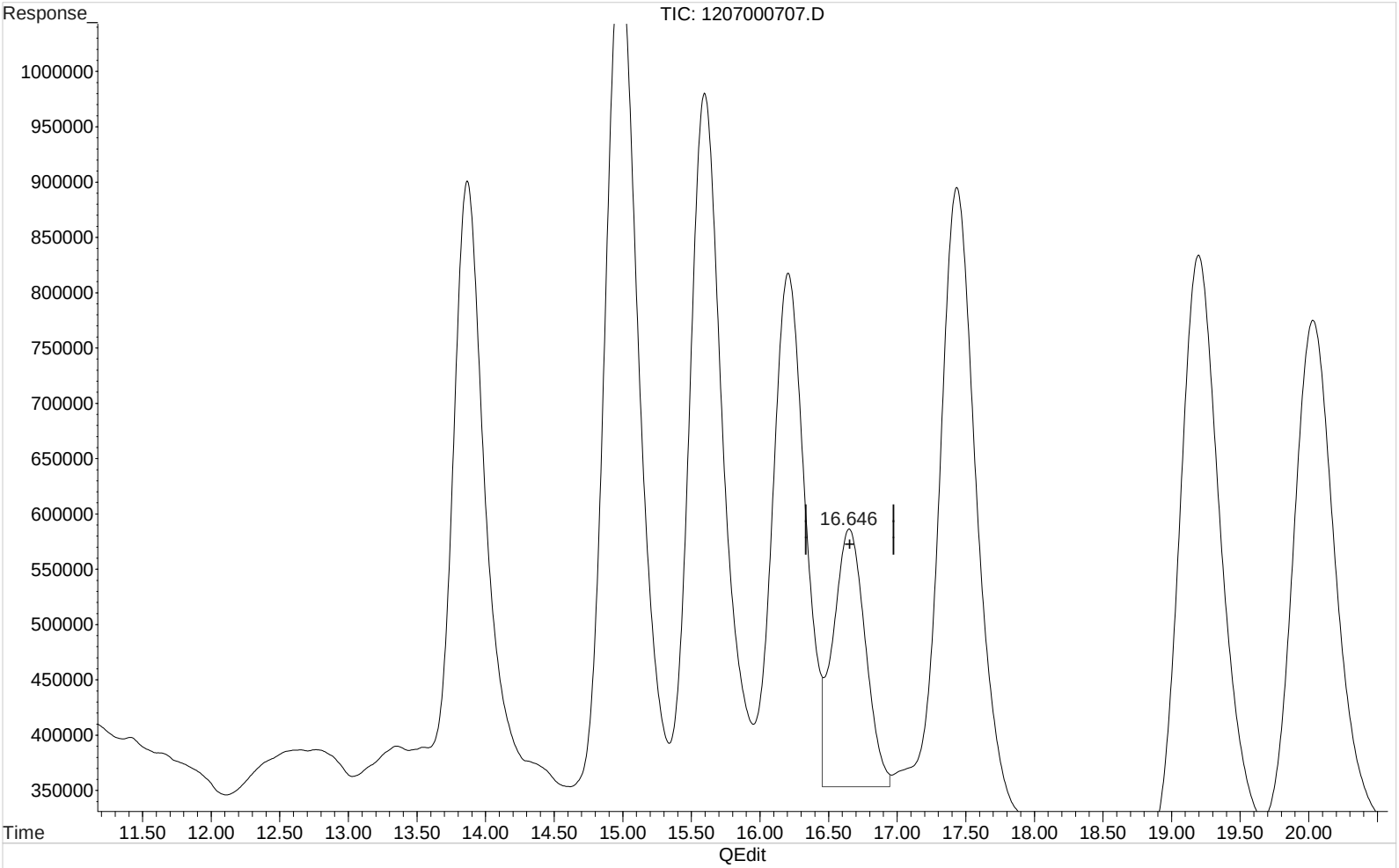
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:30:15 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.646min 155.245 ug/L m

response 3815102

Manual Integration:

After

BLC

12/08/16

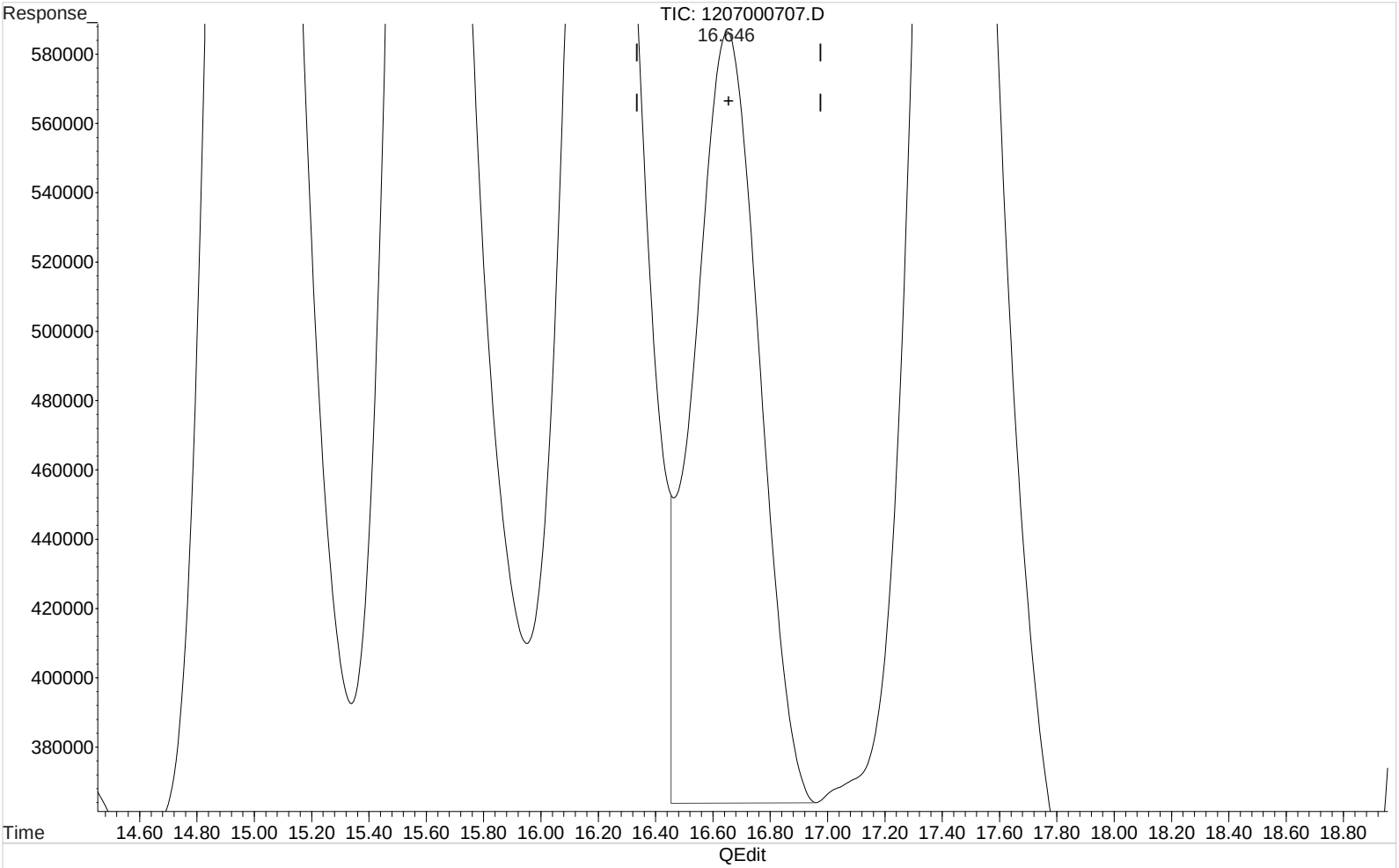
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:40:45 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.646min 142.764 ug/L m

response 3508399

Manual Integration:

After

Baseline/Shoulder

12/08/16

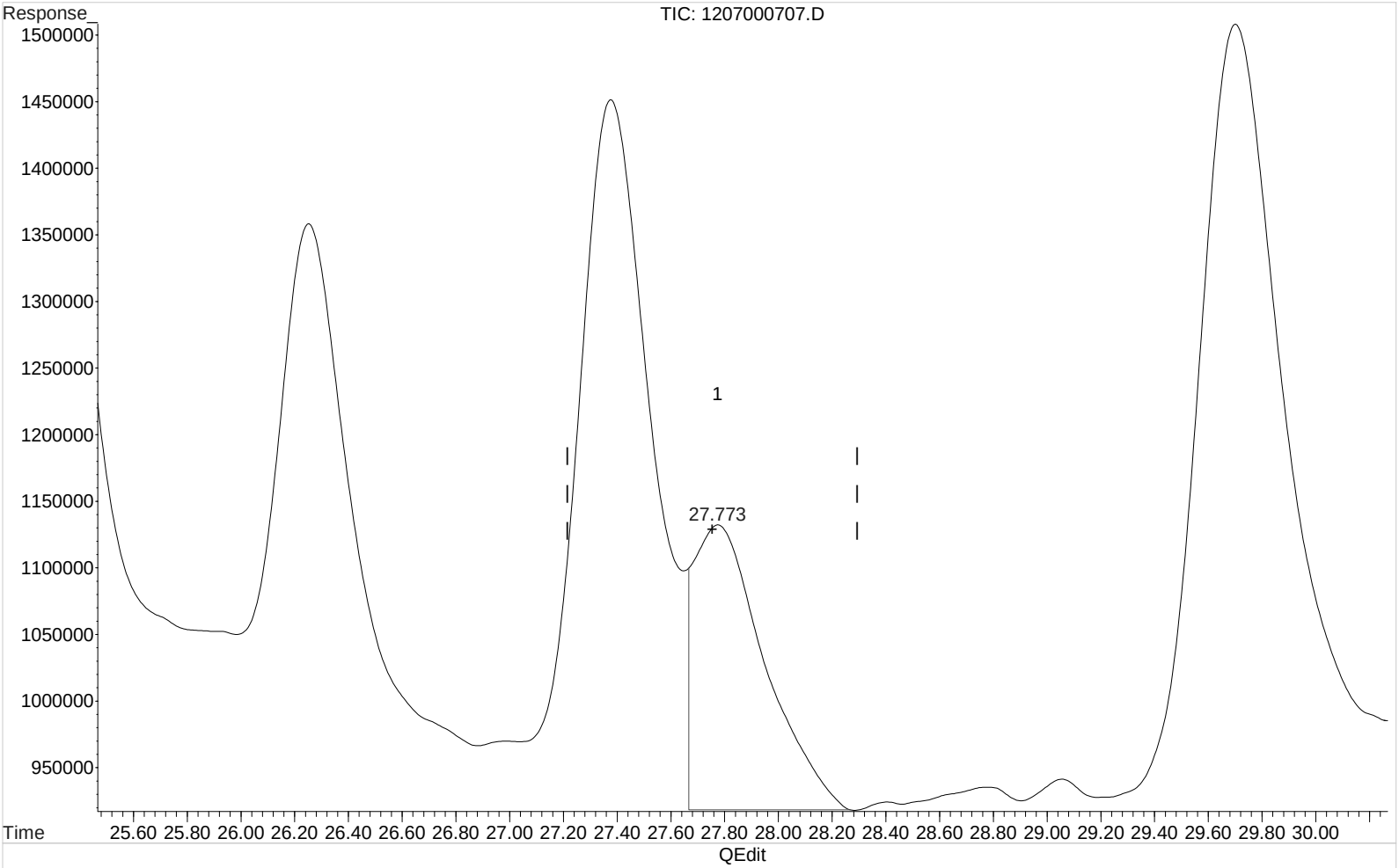
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:29:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.773min 187.377 ug/L

response 3867500

Manual Integration:

Before

12/08/16

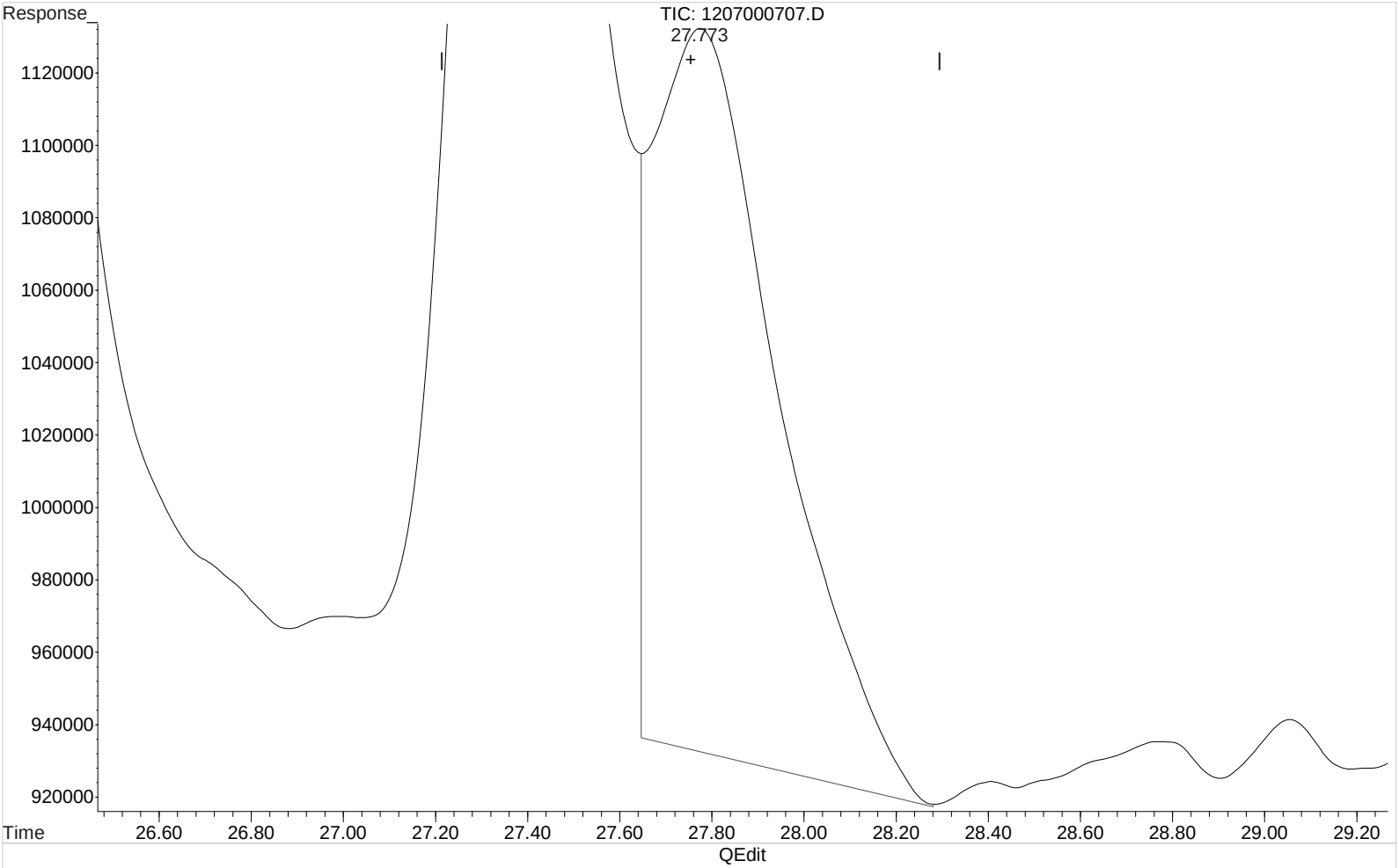
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:40:45 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.773min 182.254 ug/L m

response 3761772

Manual Integration:

After

Baseline/Shoulder

12/08/16

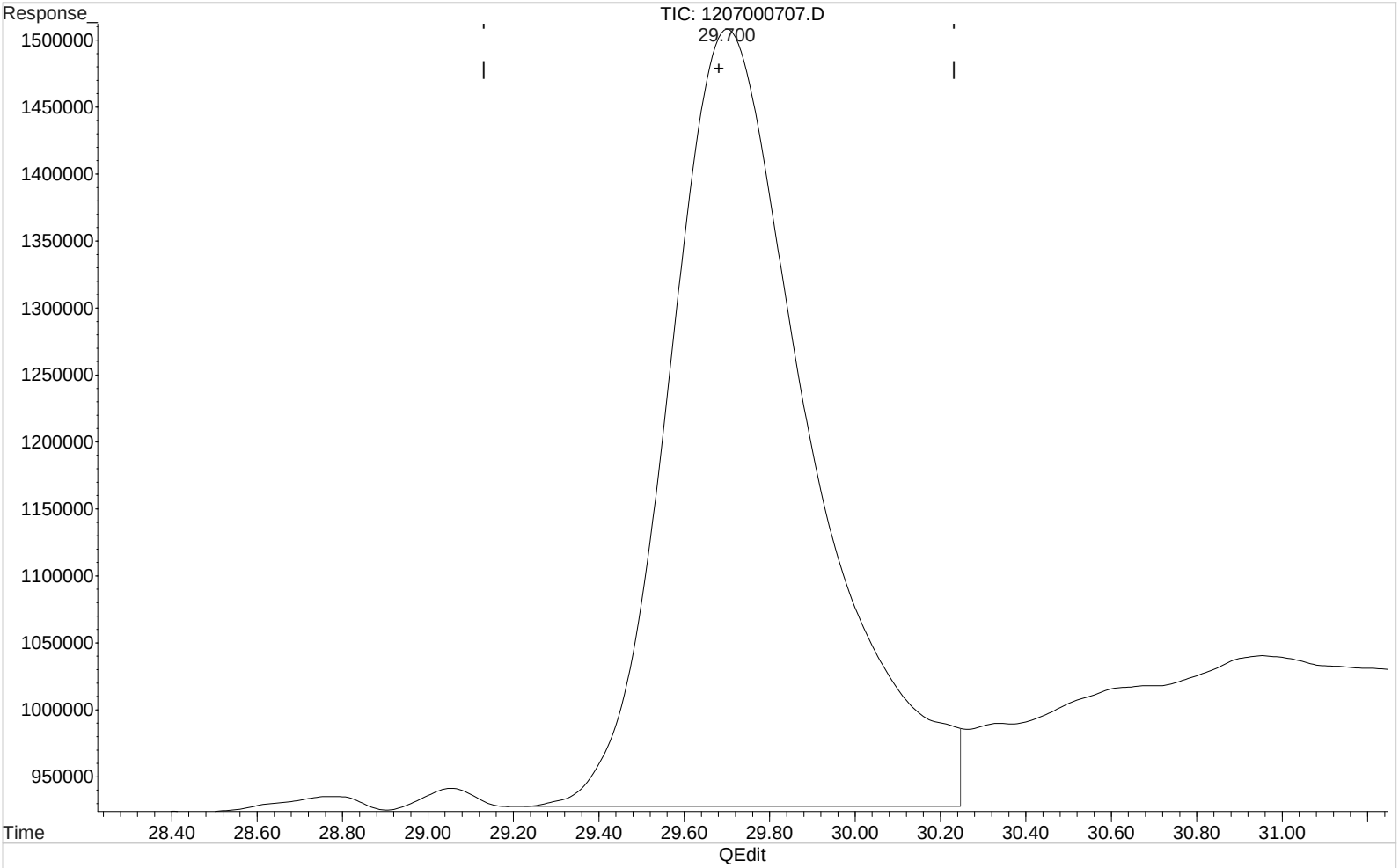
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:29:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.700min 218.688 ug/L

response 13243379

Manual Integration:

Before

12/08/16

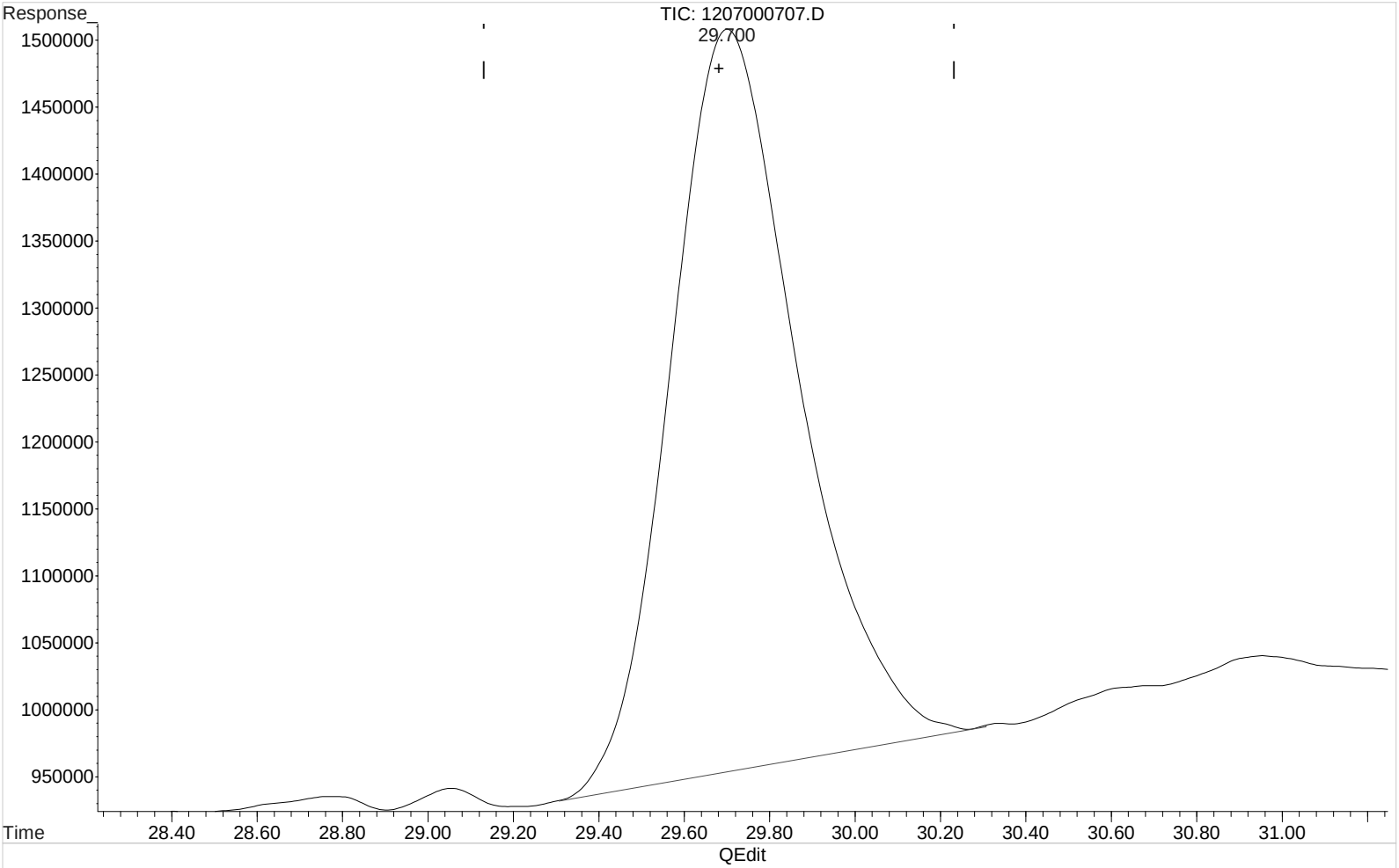
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:29:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.700min 190.638 ug/L m

response 11544733

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000708.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:08:18 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:30:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	29.705	28560027	479.087 ug/L m
Target Compounds				
1) T	Nitroglycerin	16.639	11239759	514.168 ug/L
2) T	PETN	27.792	8986852	439.492 ug/L m

(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)

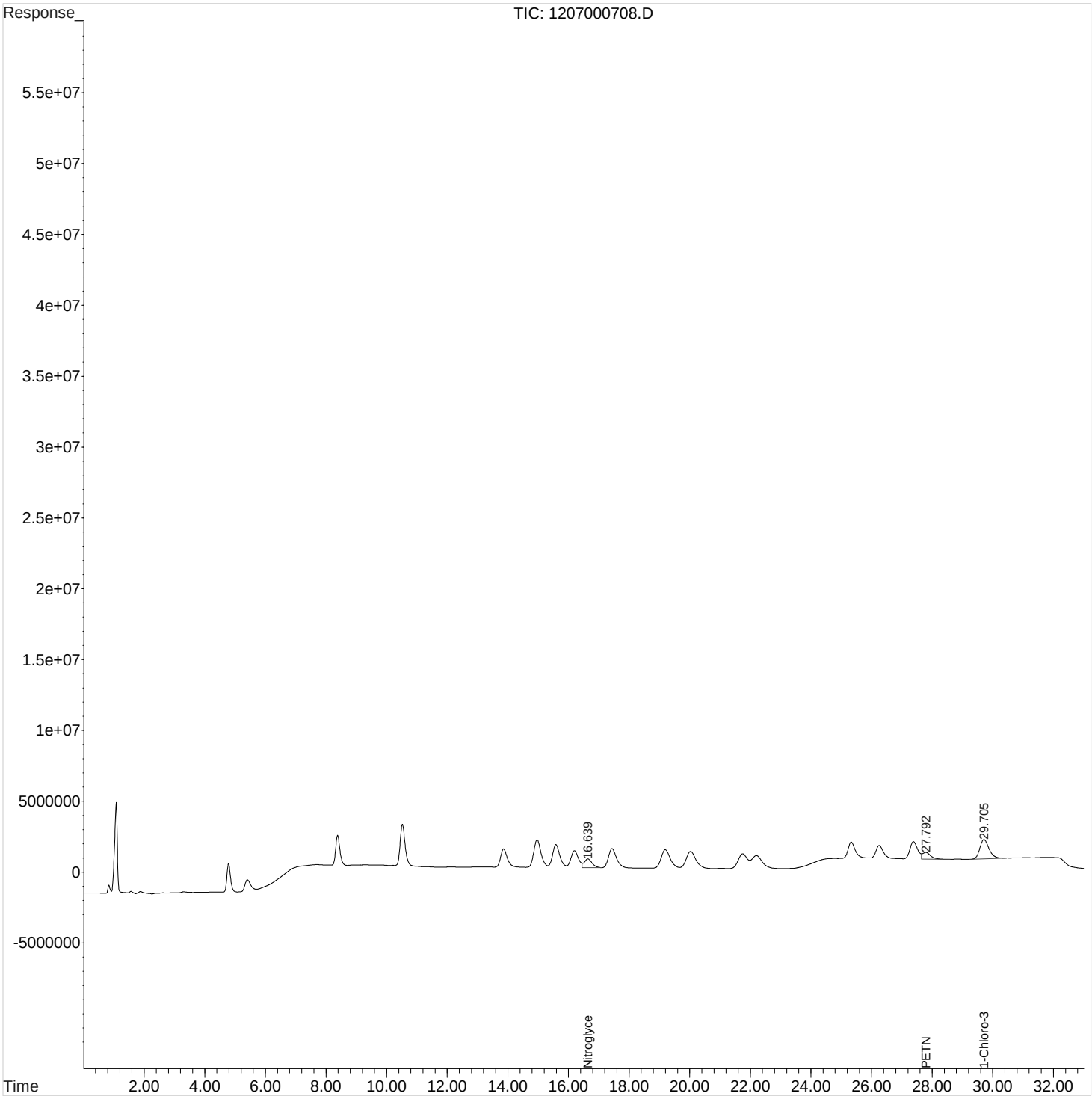
/08/16

/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000708.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:08:18 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:30:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(b) (6)

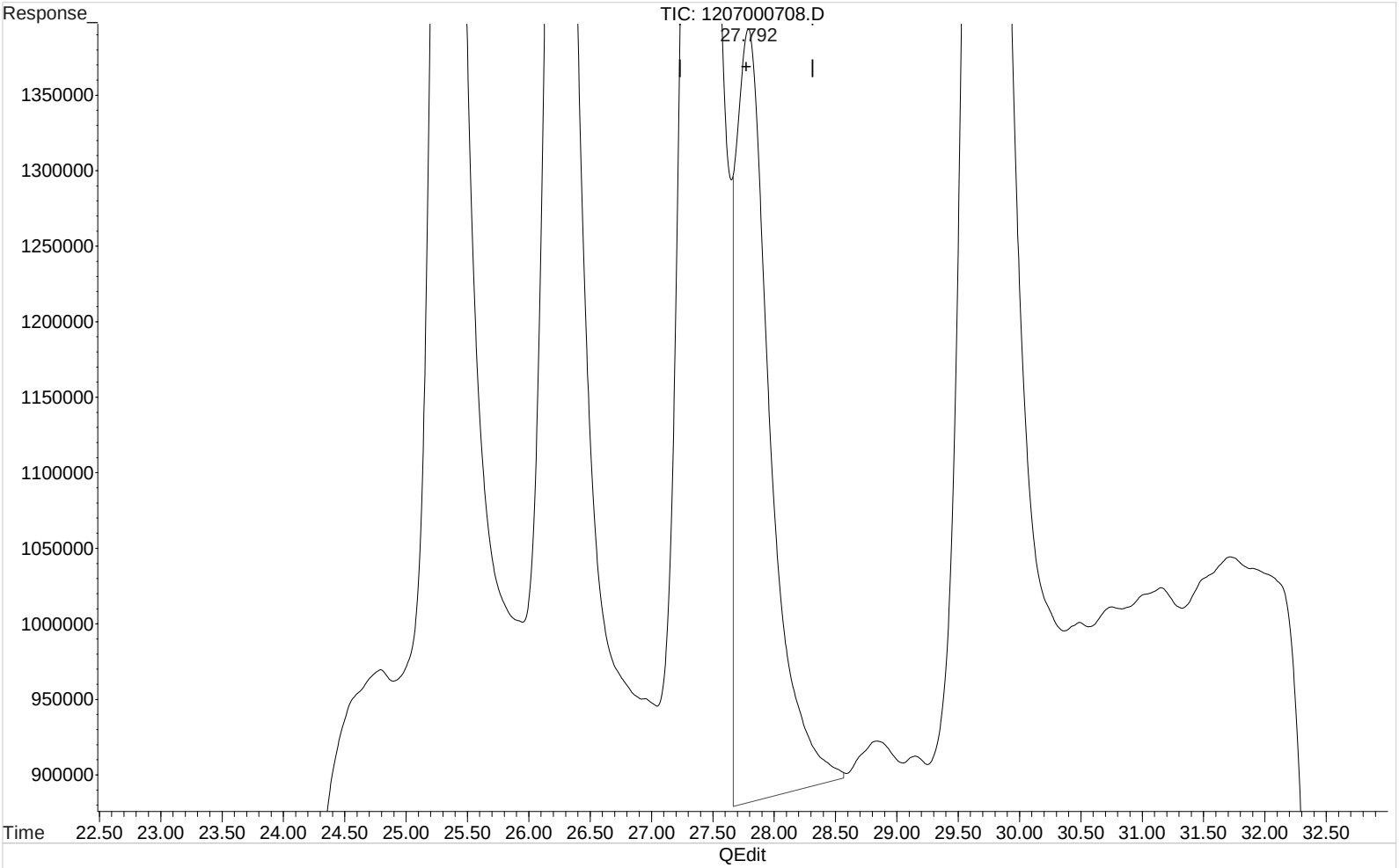
2/08/16

2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000708.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:30:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:30:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.792min 480.822 ug/L

response 9831980

Manual Integration:

Before

12/08/16

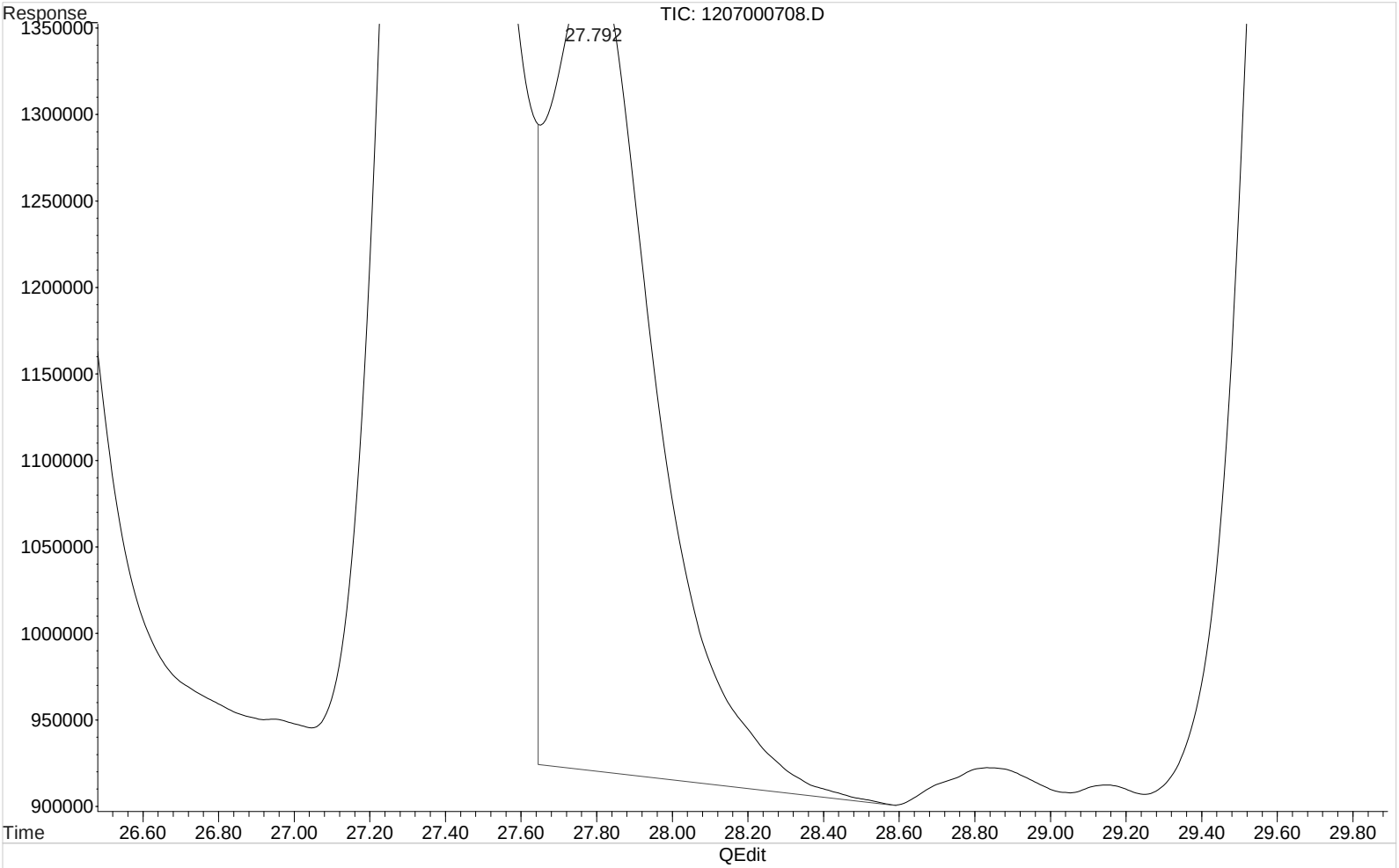
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000708.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:31:41 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:30:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.792min 439.492 ug/L m

response 8986852

Manual Integration:

After

Baseline/Shoulder

12/08/16

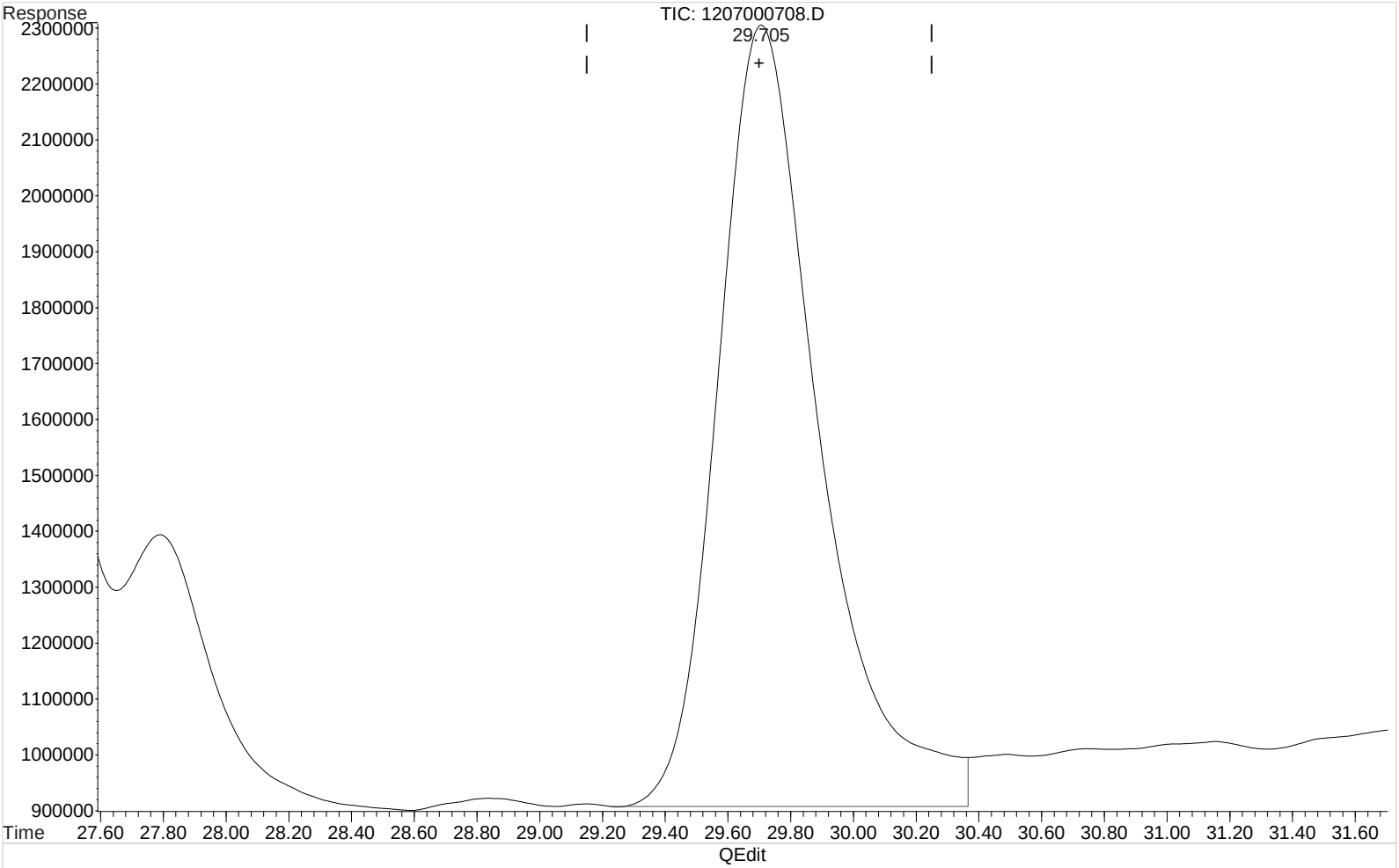
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000708.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:30:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:30:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.705min 527.464 ug/L

response 31443916

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

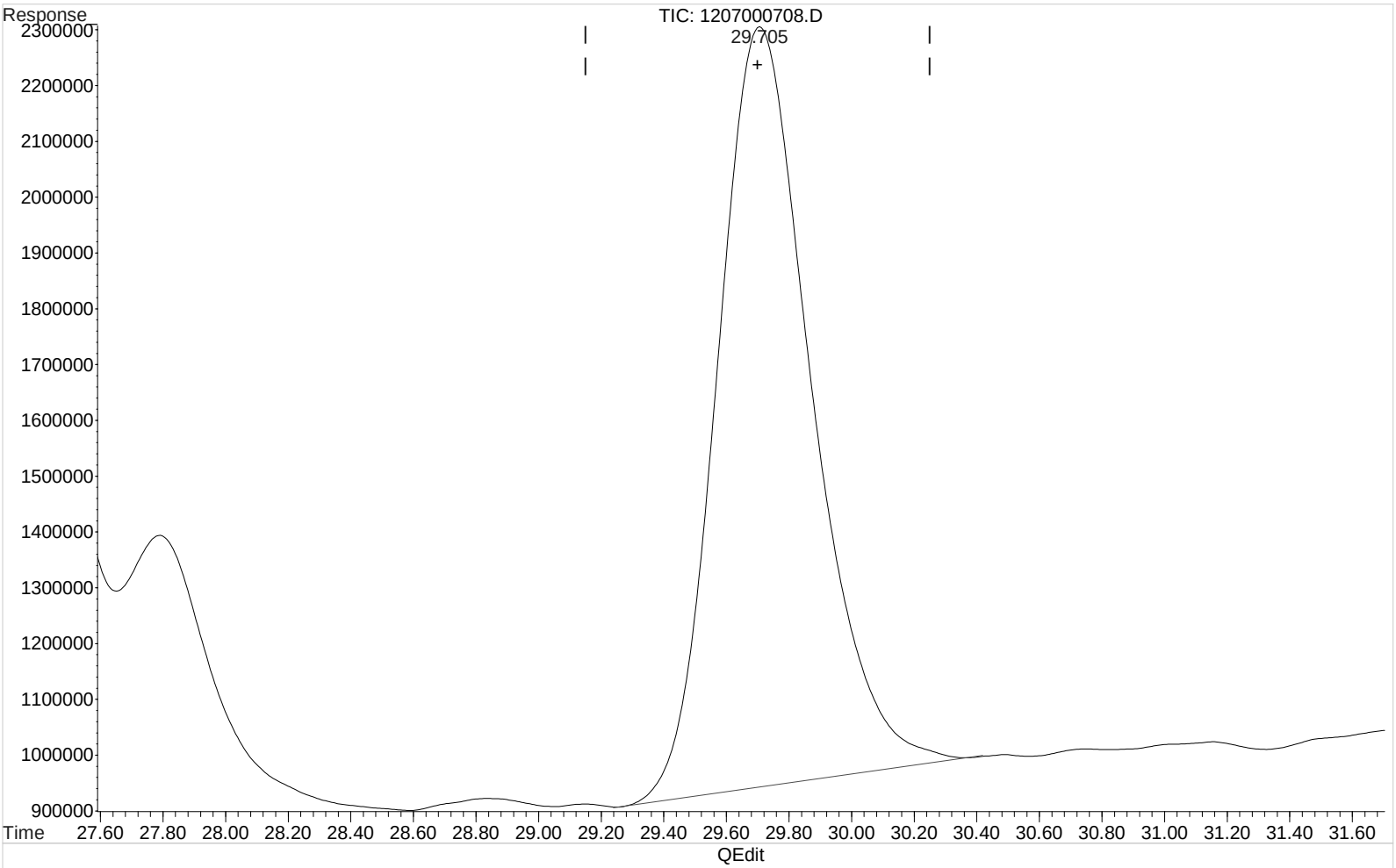
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000708.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:30:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:30:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.705min 479.087 ug/L m

response 28560027

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)

2/08/16

2/09/16

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:33:37 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	29.704	55010487	932.538 ug/L m
Target Compounds				
1) T	Nitroglycerin	16.630	21521854	977.602 ug/L m
2) T	PETN	27.784	18036372	902.302 ug/L m

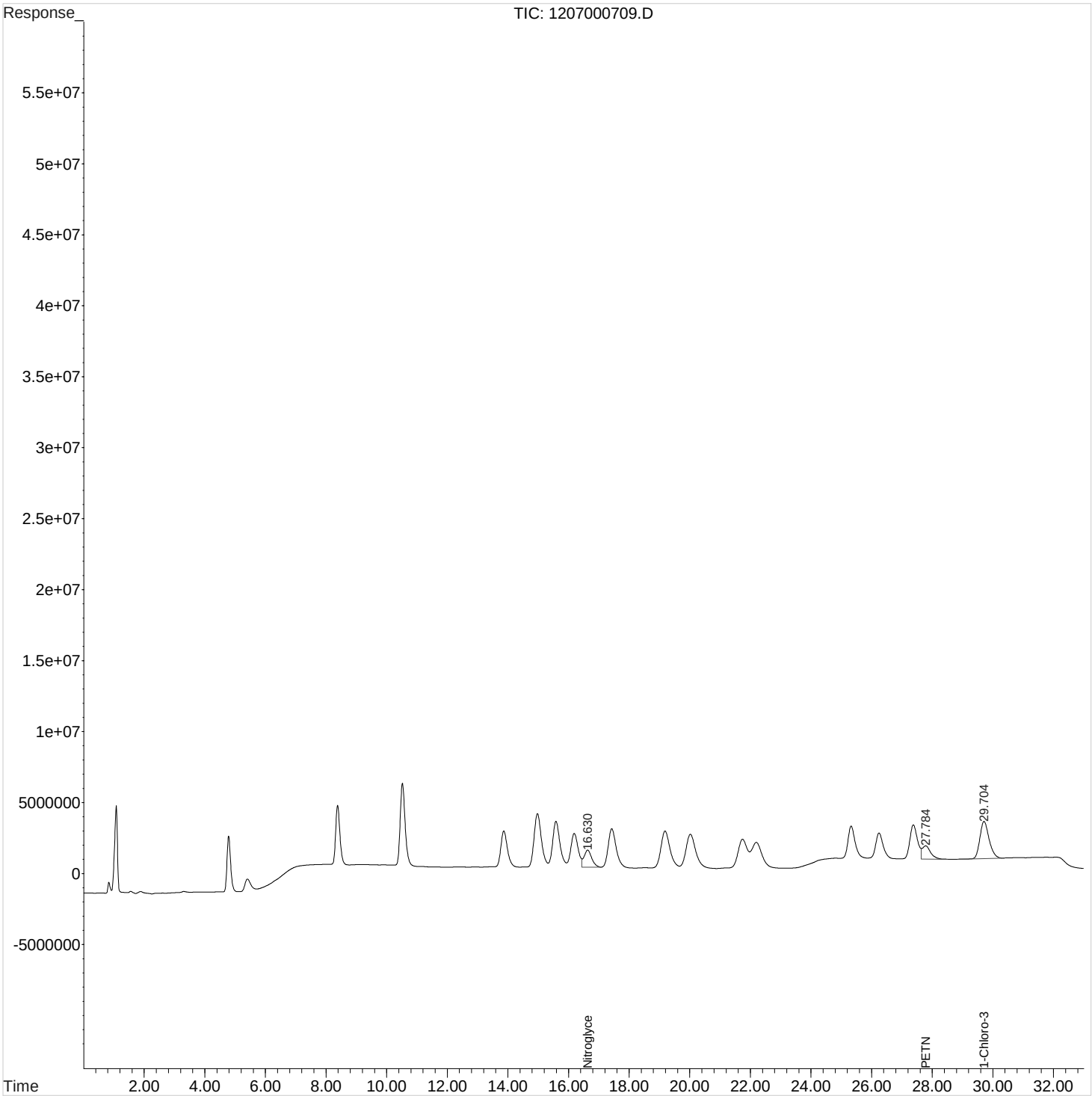
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:33:37 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

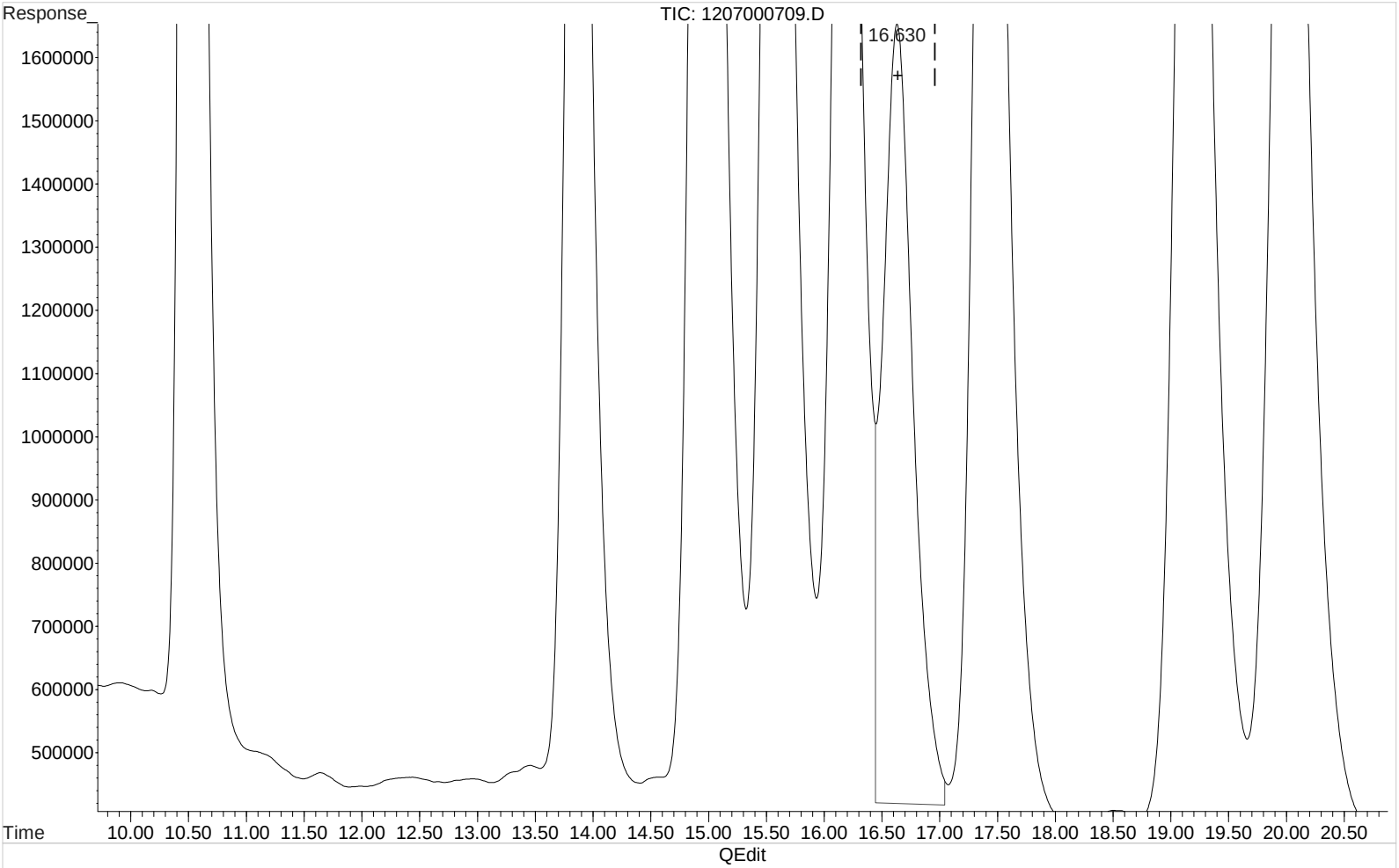


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:32:30 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.630min 1012.917 ug/L

response 22299324

Manual Integration:

Before

12/08/16

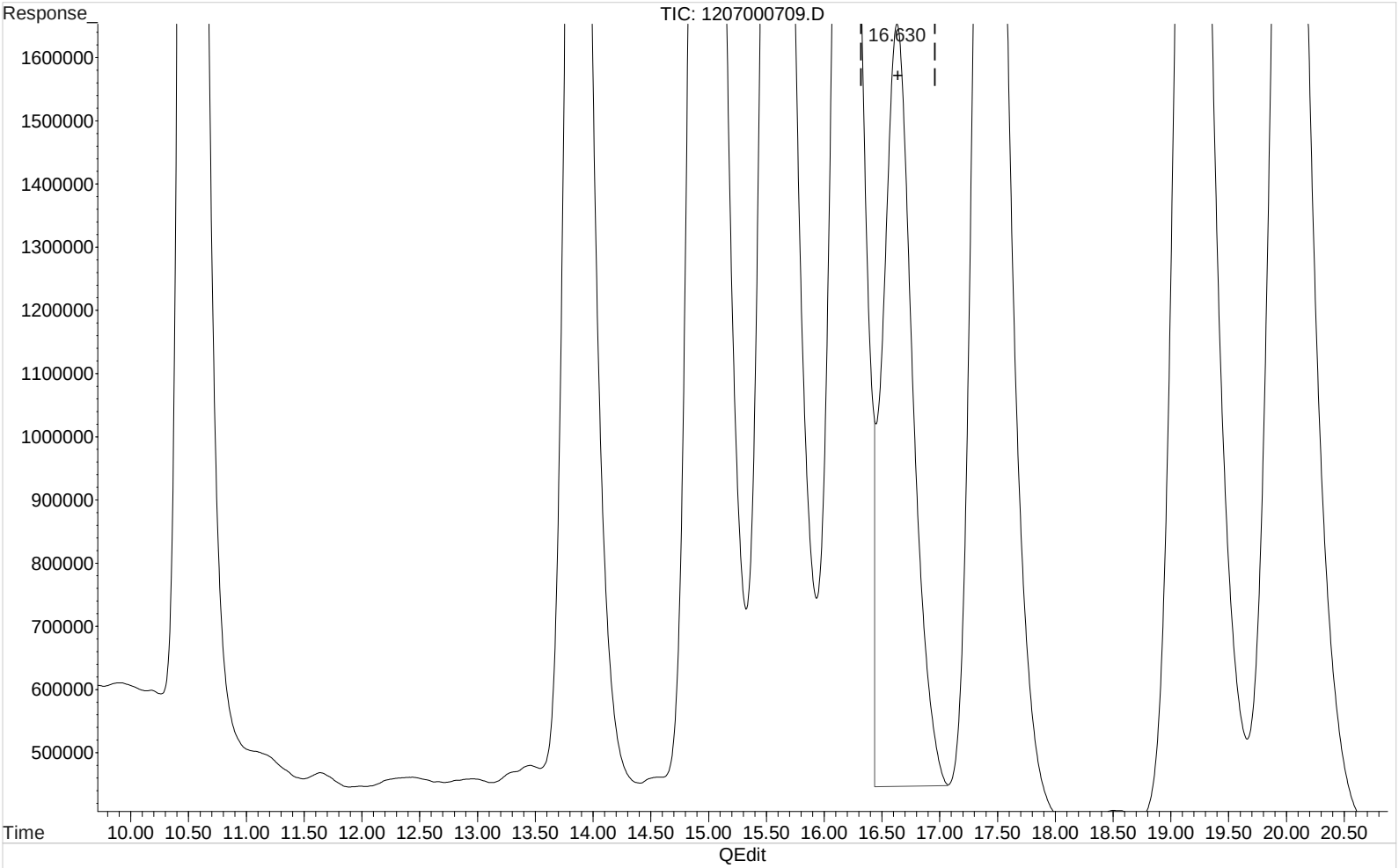
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:32:30 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.630min 977.602 ug/L m

response 21521854

Manual Integration:

After

BLC

12/08/16

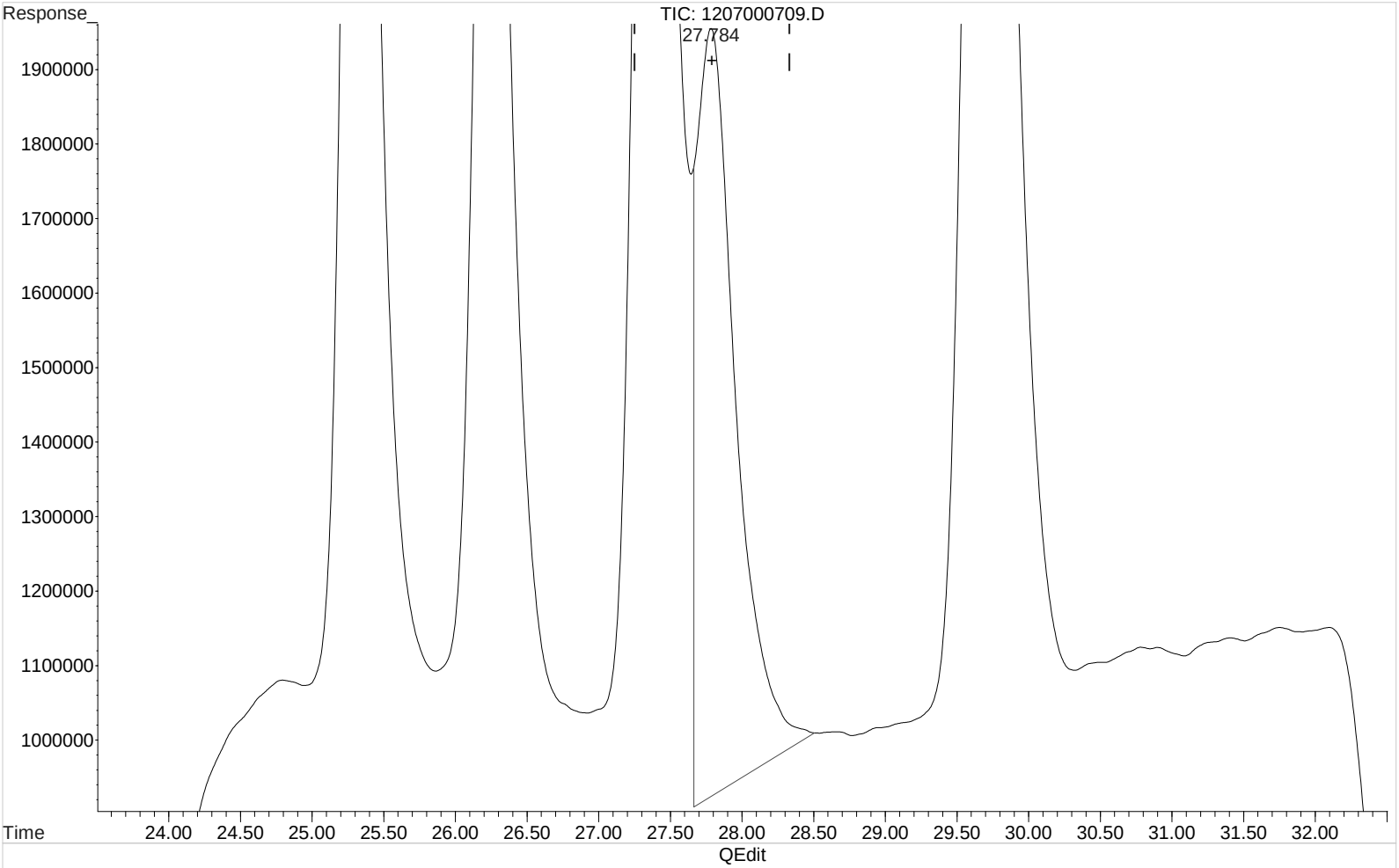
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:32:30 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.784min 975.465 ug/L

response 19498853

Manual Integration:

Before

12/08/16

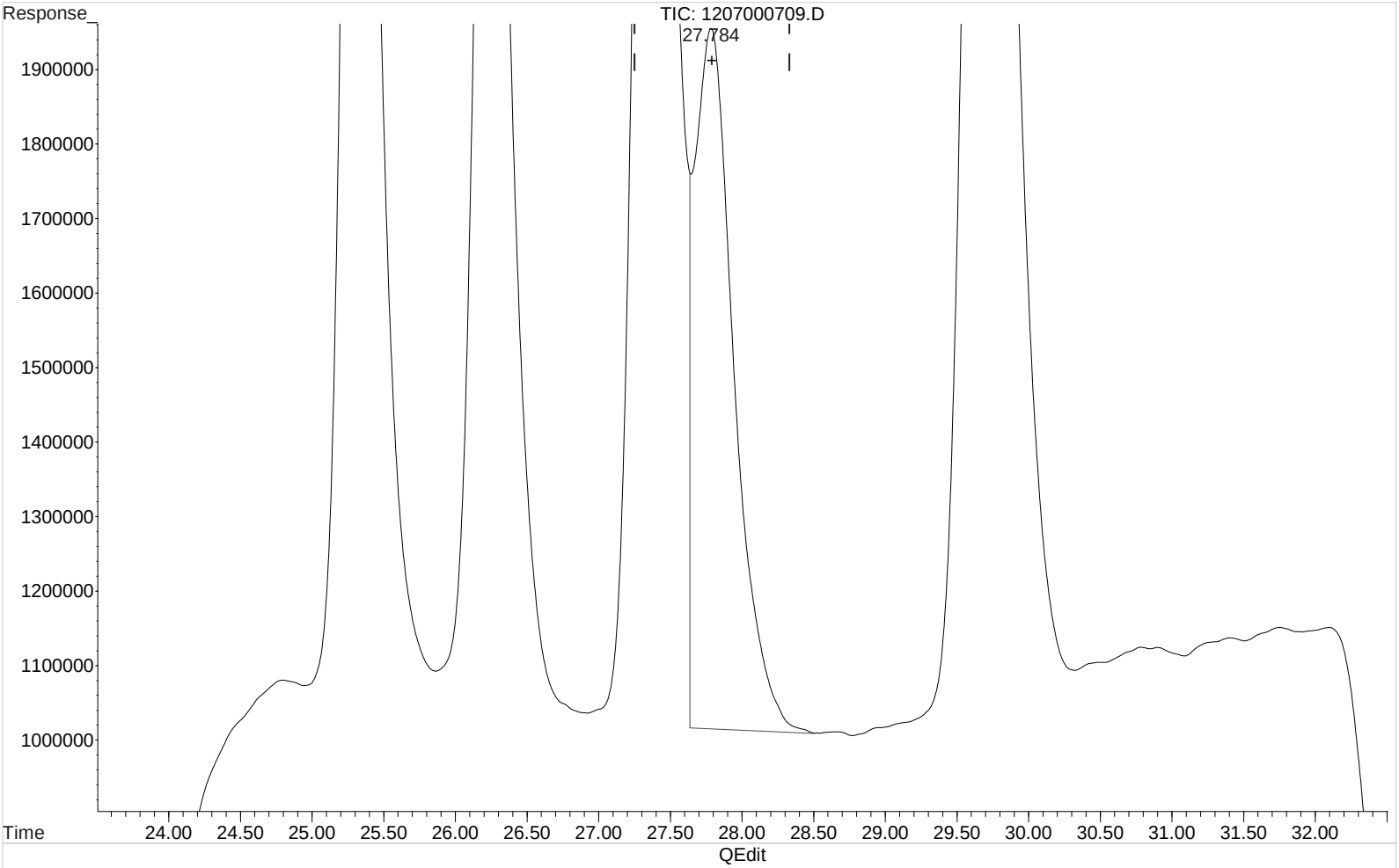
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:32:30 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.784min 902.302 ug/L m

response 18036372

Manual Integration:

After

BLC

12/08/16

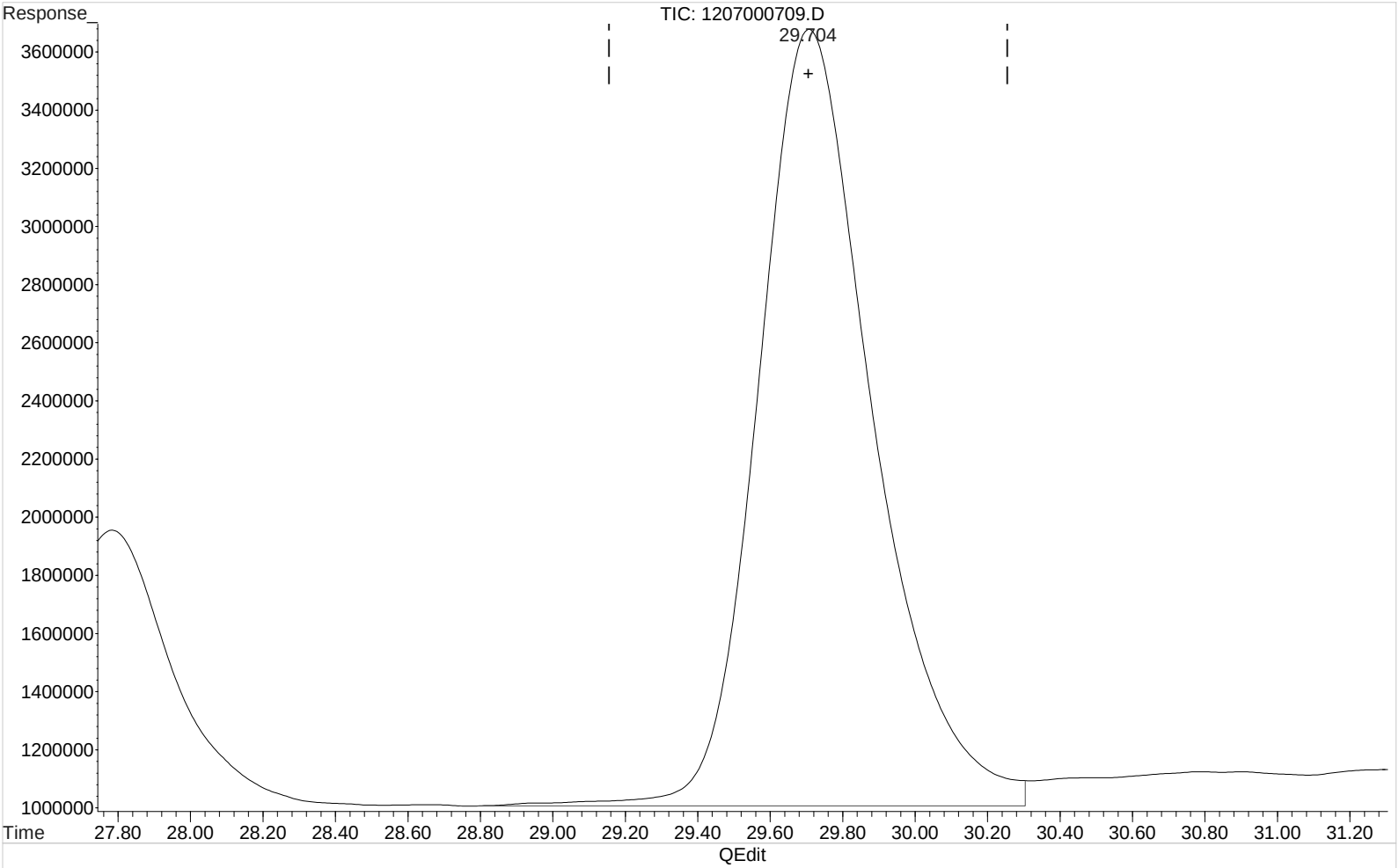
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:32:30 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.704min 995.581 ug/L

response 58729422

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

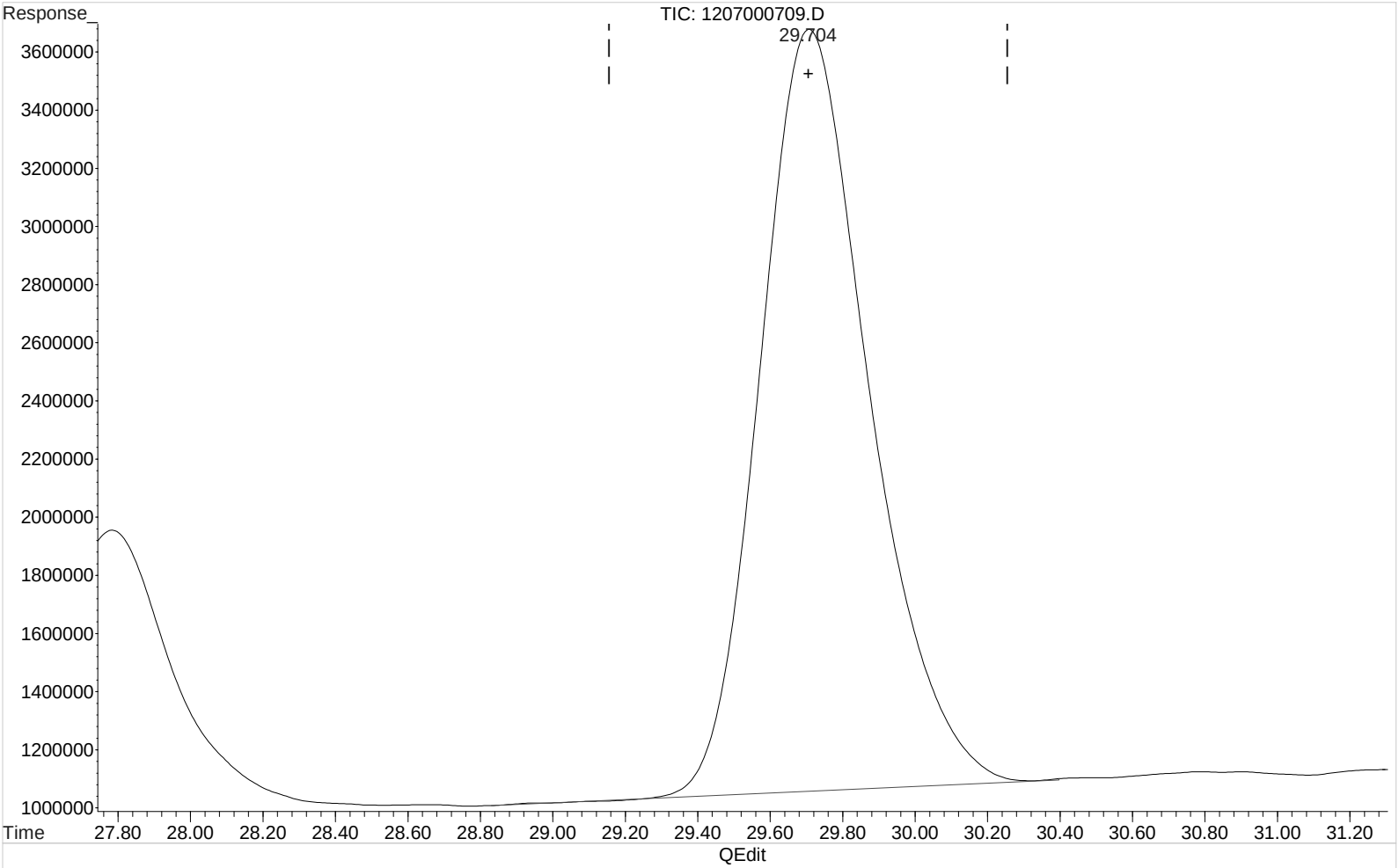
2/08/16

2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:32:30 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.704min 932.538 ug/L m

response 55010487

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:49 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.700	112386573	1931.234	ug/L	m
Target Compounds						
1) T	Nitroglycerin	16.647	43206000	1971.406	ug/L	m
2) T	PETN	27.787	35607998	1816.855	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)

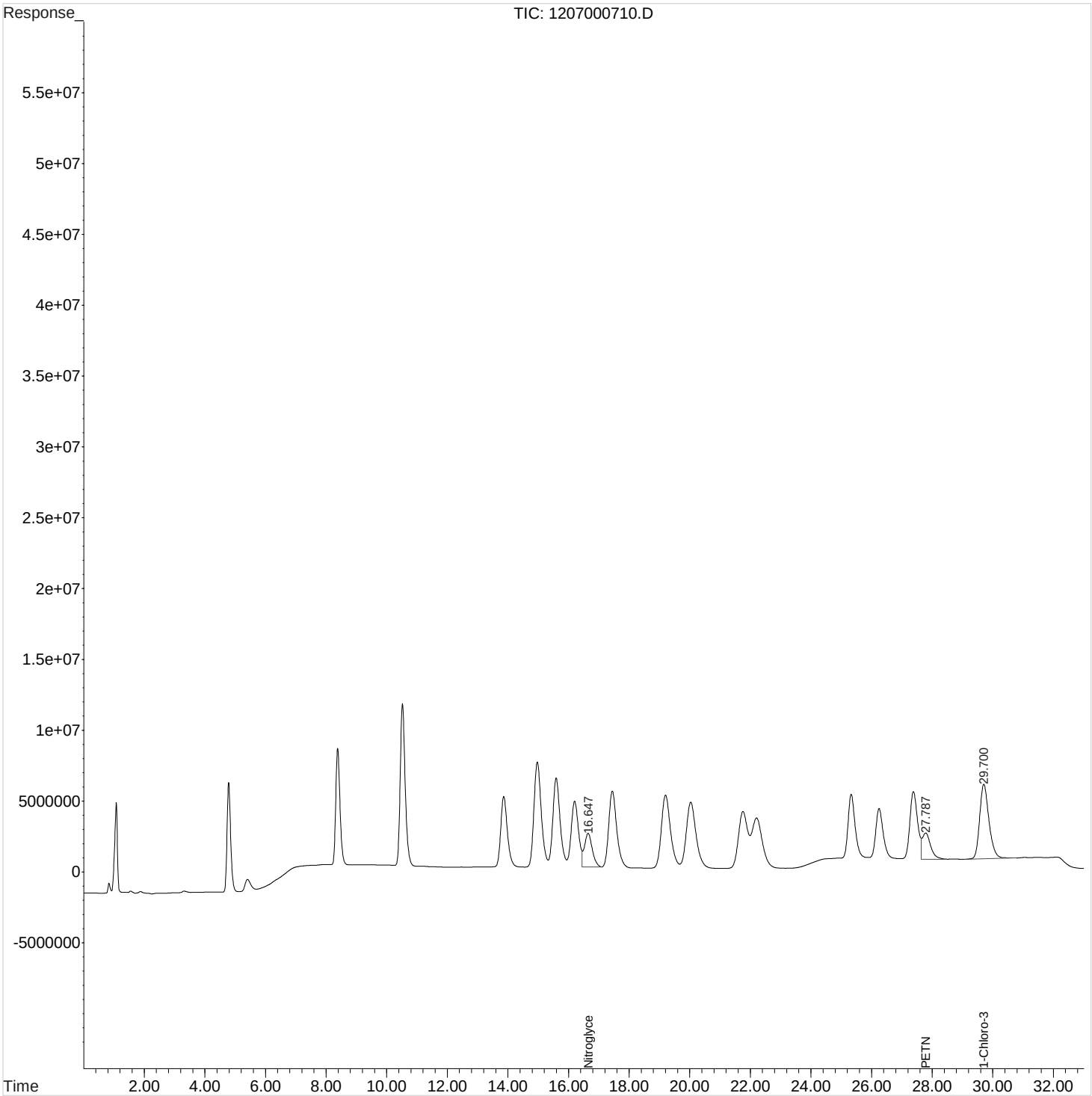
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:49 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

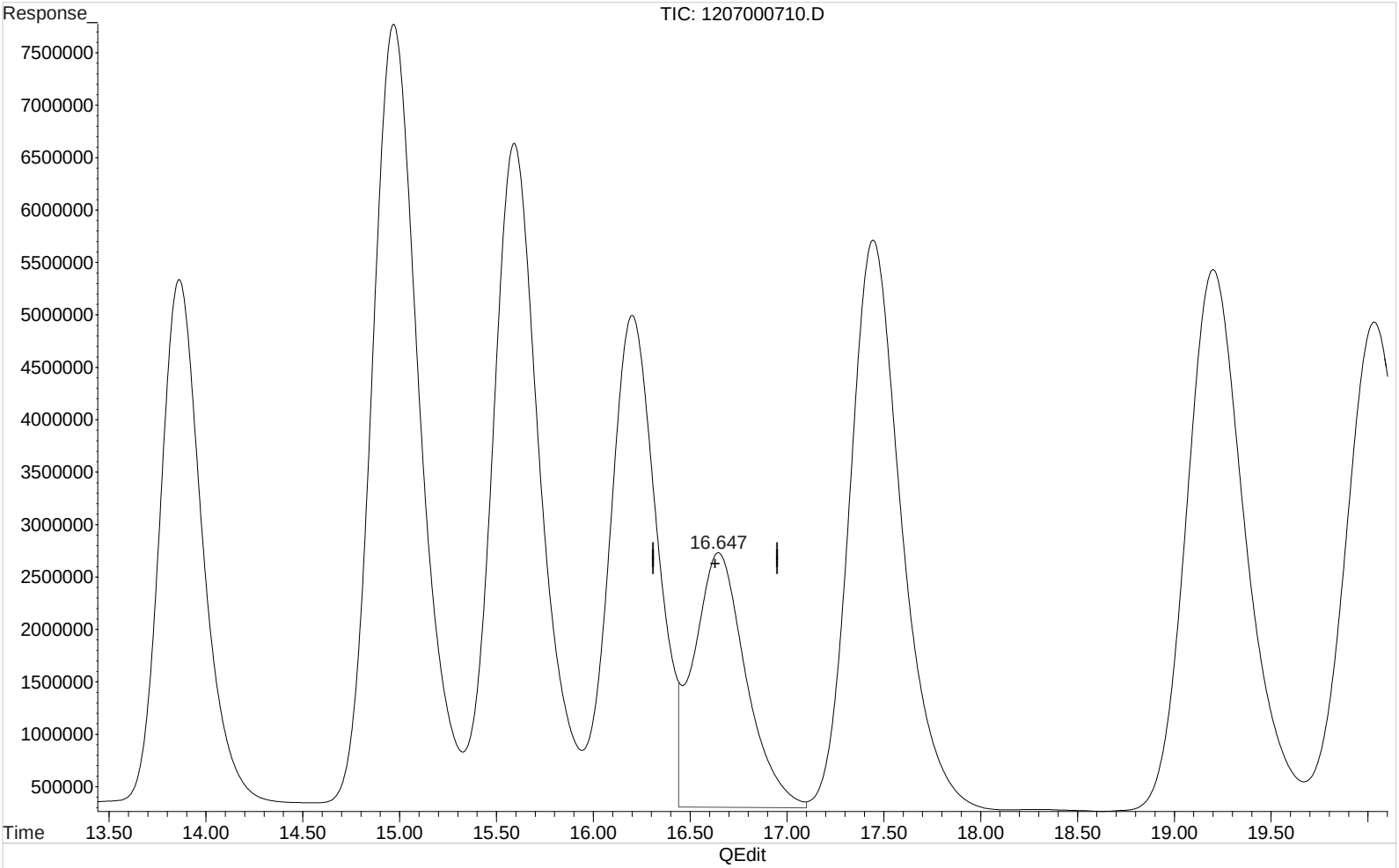


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:03 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.647min 2072.566 ug/L

response 45423047

Manual Integration:

Before

12/08/16

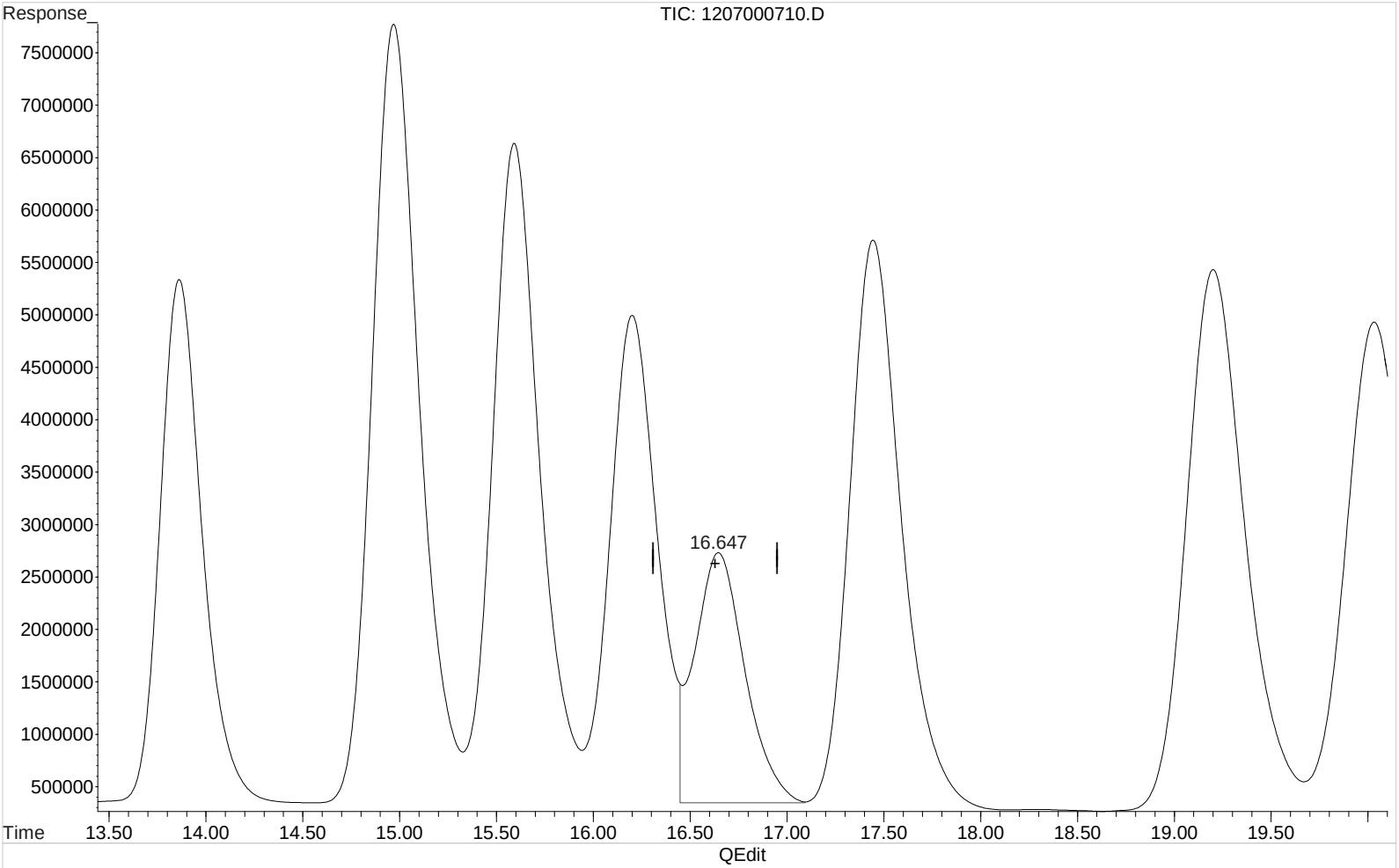
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:03 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.647min 1971.406 ug/L m

response 43206000

Manual Integration:

After

BLC

12/08/16

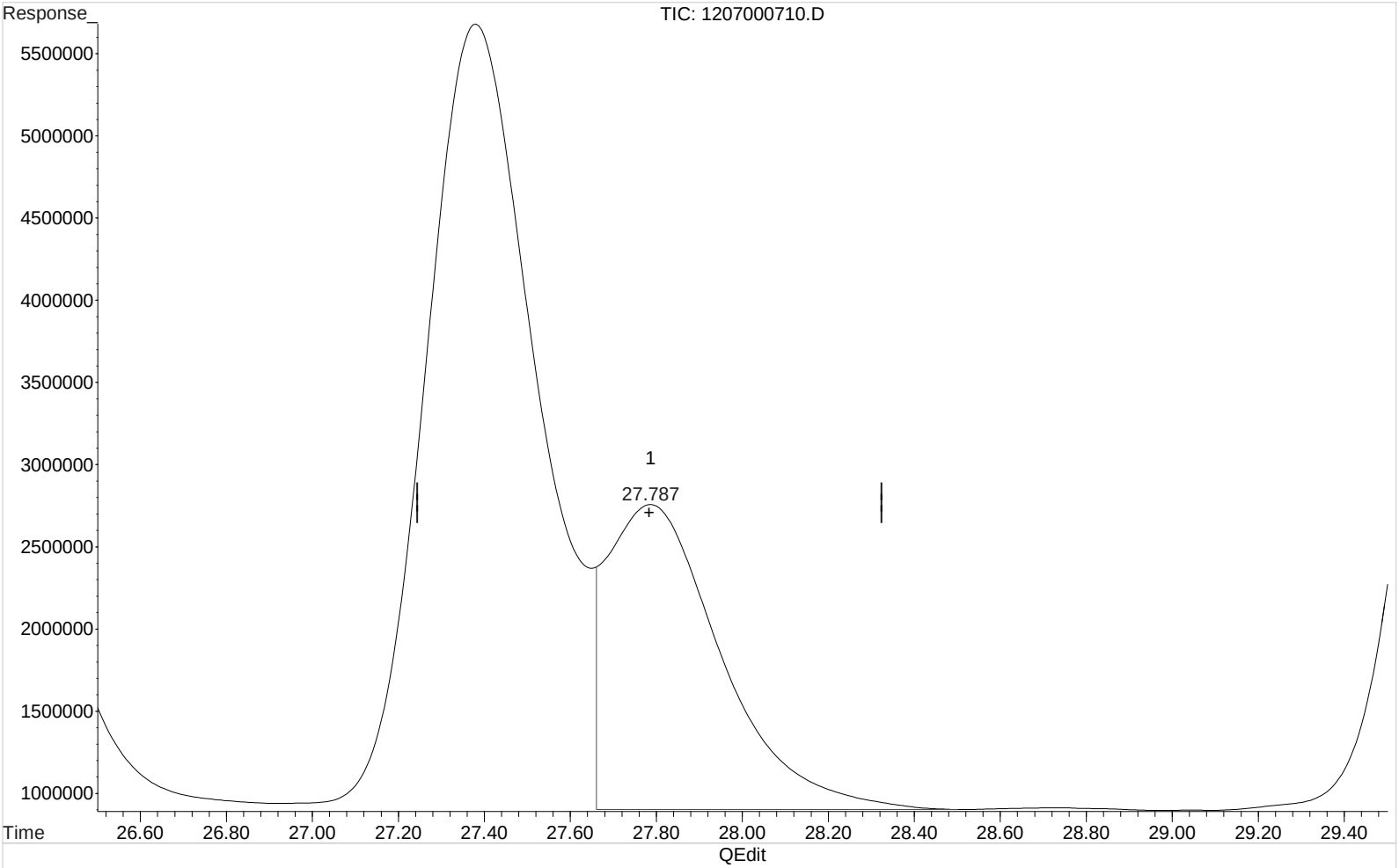
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:03 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.787min 1727.074 ug/L

response 33848411

Manual Integration:

Before

12/08/16

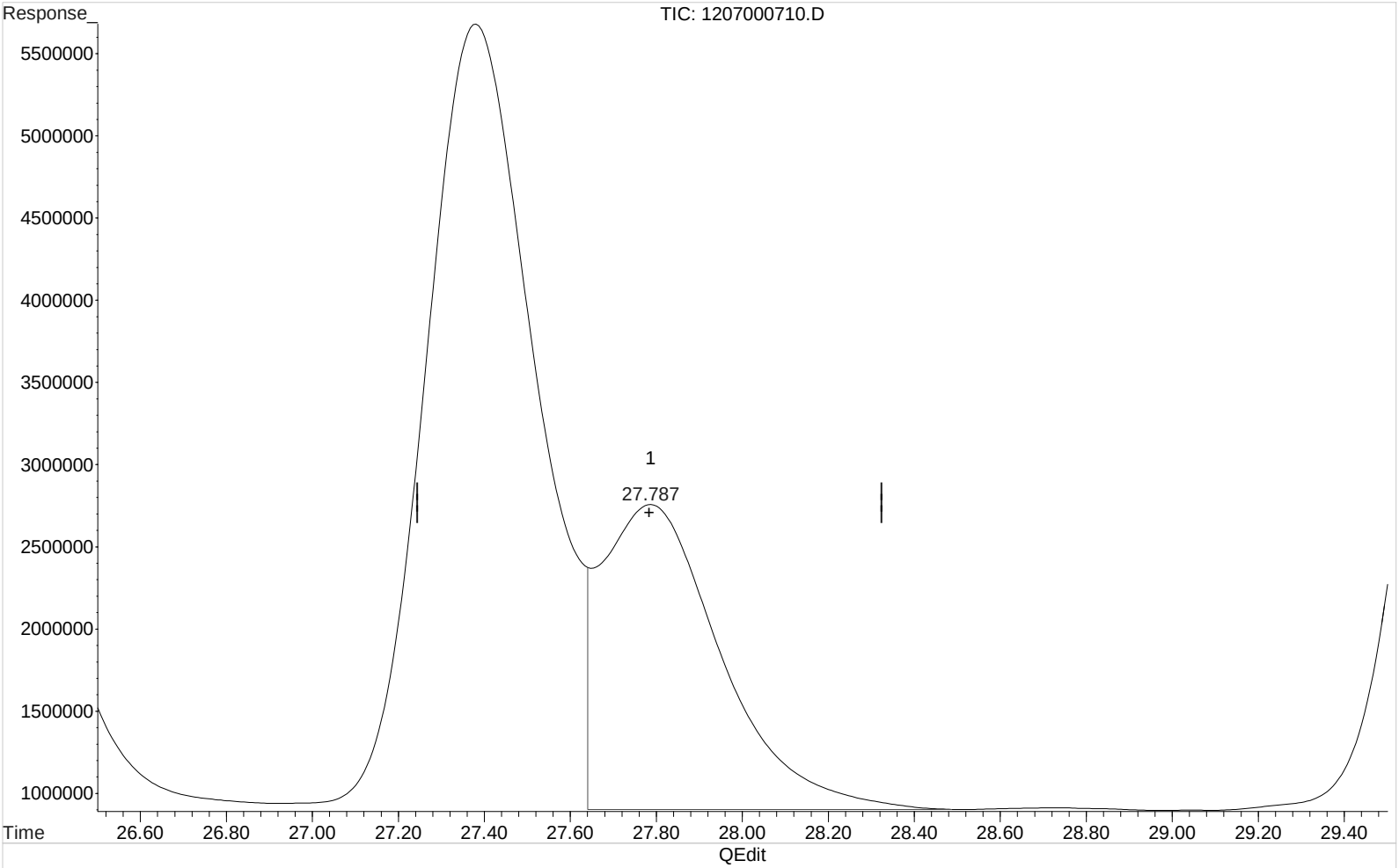
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:03 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.787min 1816.855 ug/L m

response 35607998

Manual Integration:

After

BLC

12/08/16

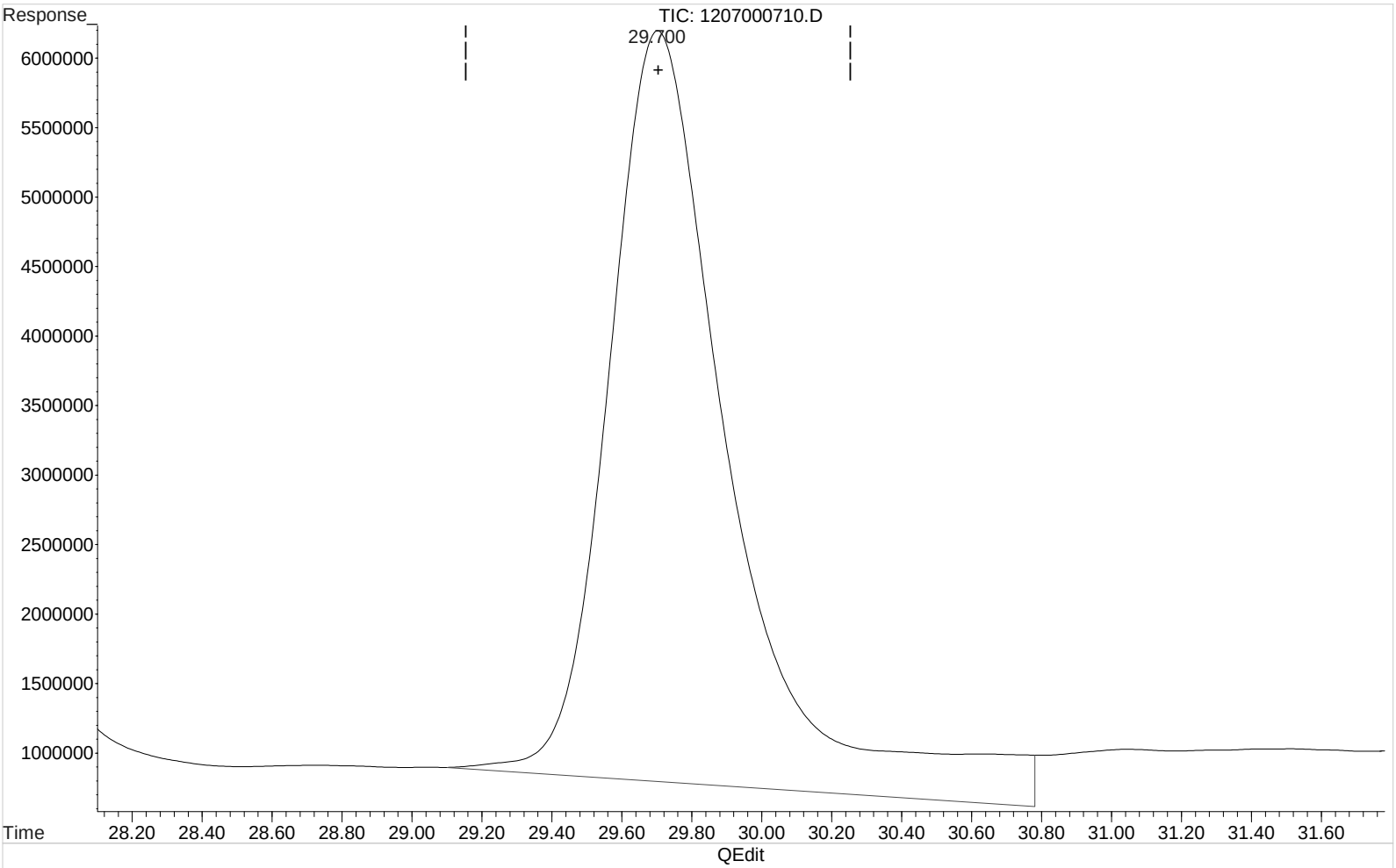
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:03 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

29.700min 2259.280 ug/L

response 131476903

Manual Integration:

Before

12/08/16

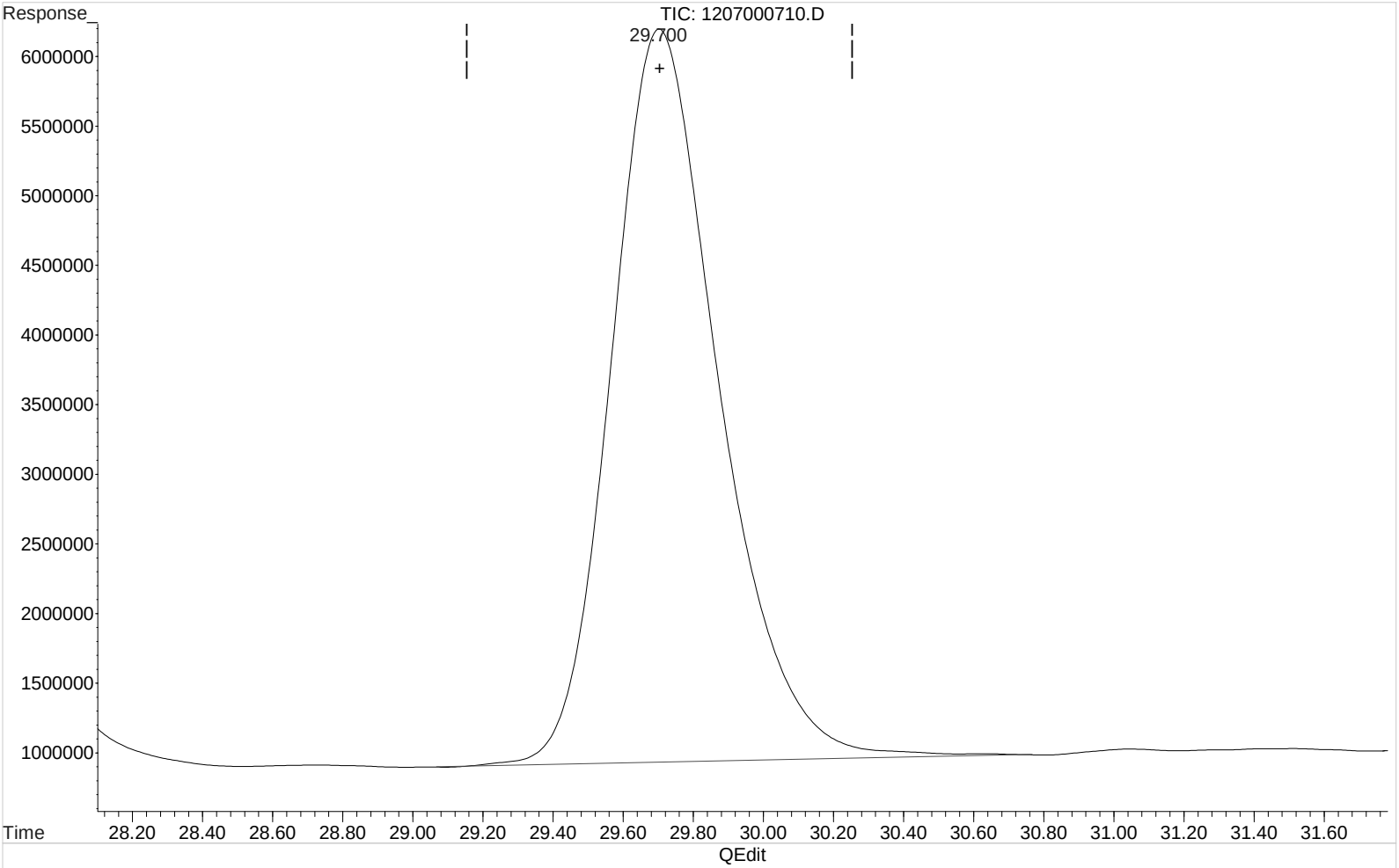
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:03 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

29.700min 1931.234 ug/L m

response 112386573

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:08:50 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.688	288614109	4988.087	ug/L	m
Target Compounds						
1) T	Nitroglycerin	16.621	108352662	4955.731	ug/L	m
2) T	PETN	27.781	89947543	4660.595	ug/L	m

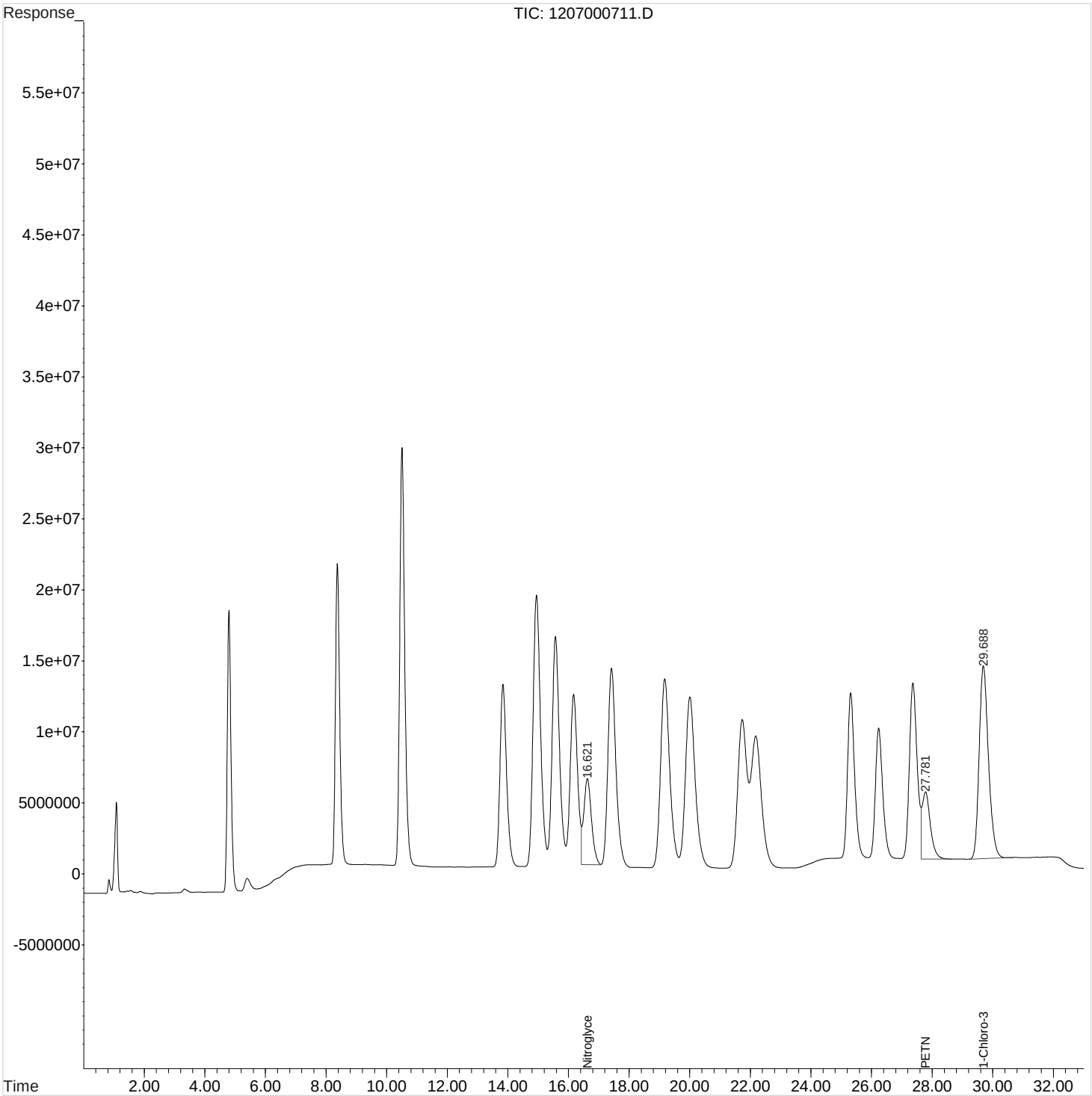
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:08:50 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

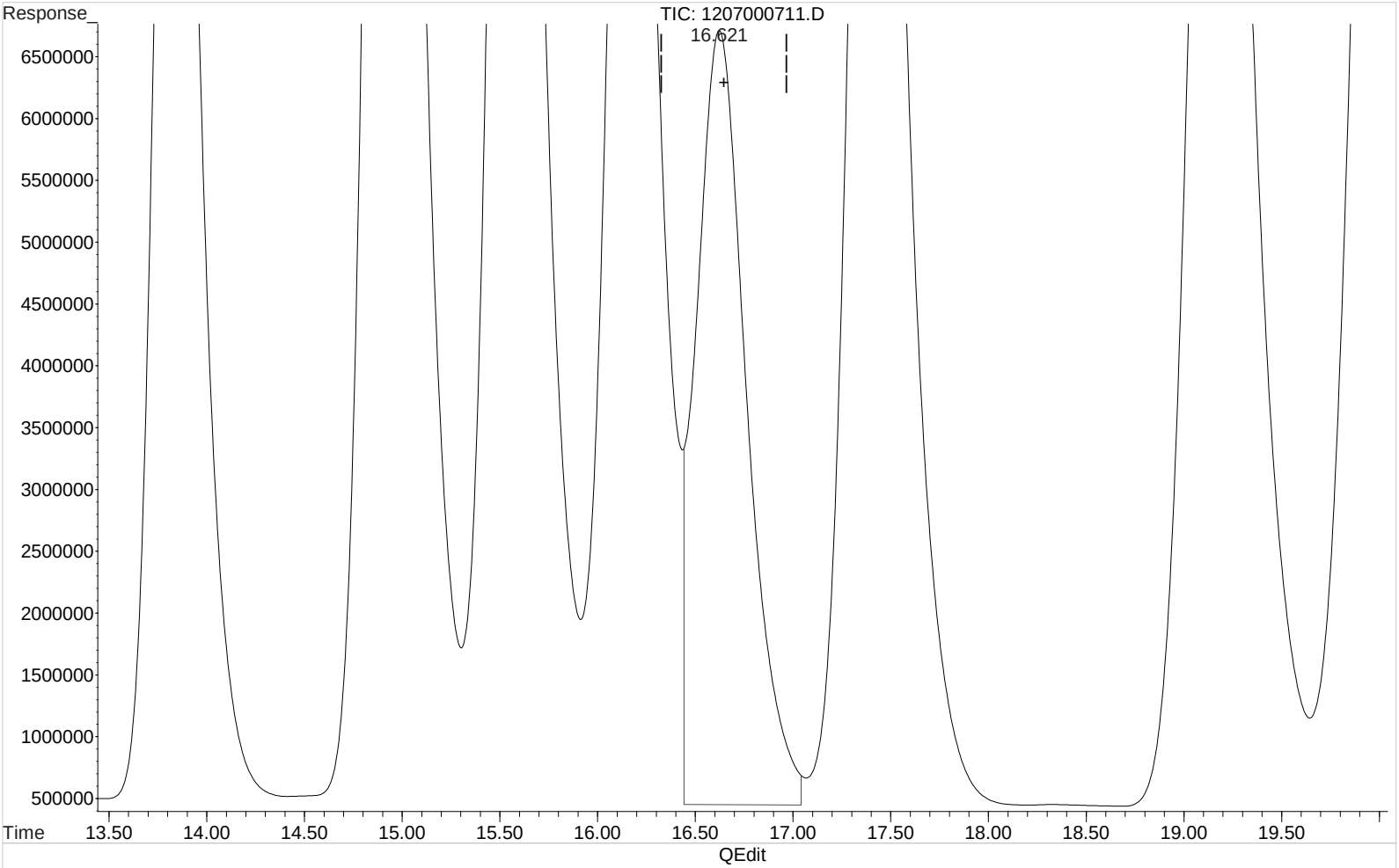


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:35:15 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.621min 5145.490 ug/L

response 112501565

Manual Integration:

Before

12/08/16

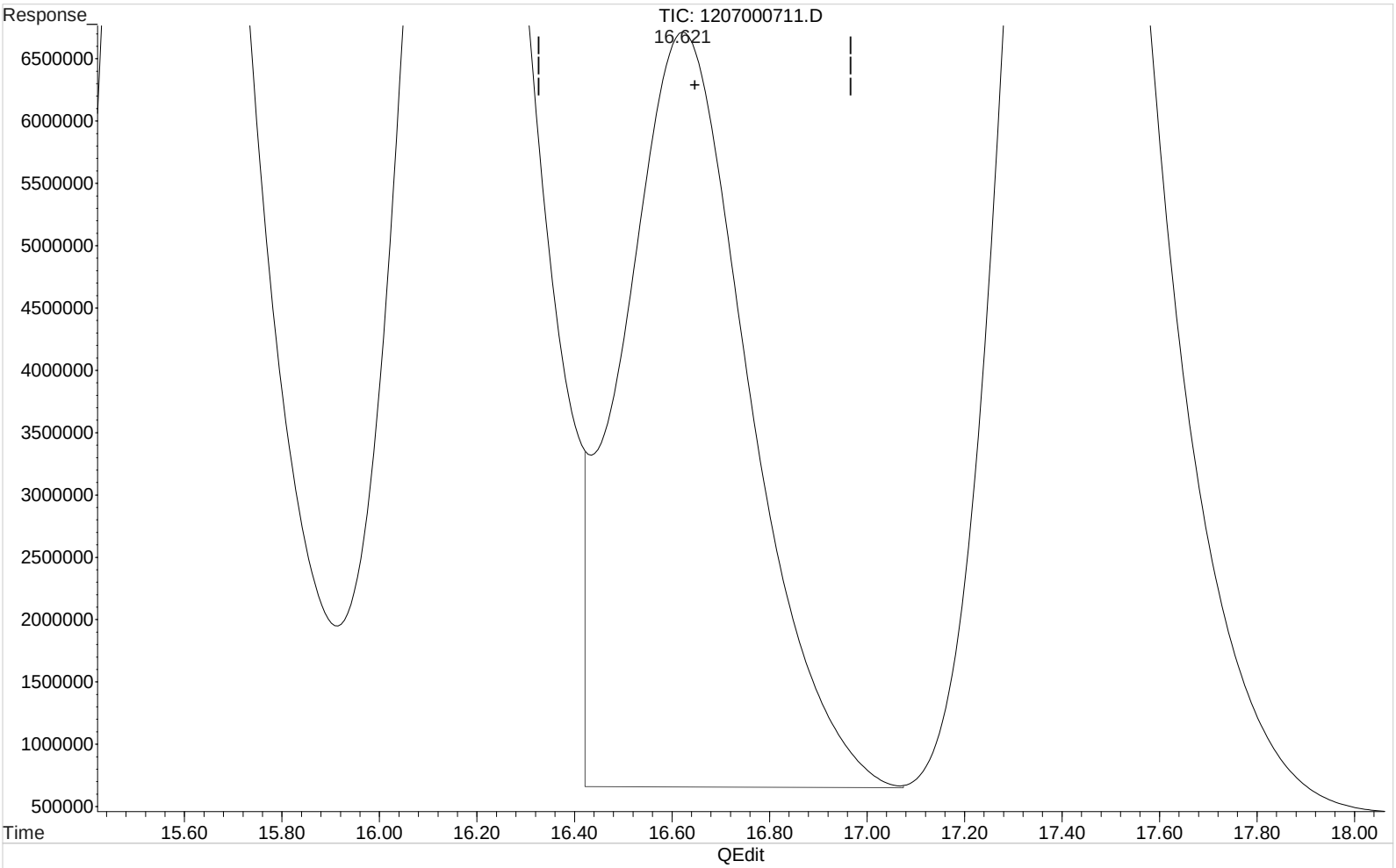
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:36:52 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.621min 4955.731 ug/L m

response 108352662

Manual Integration:

After

Baseline/Shoulder

12/08/16

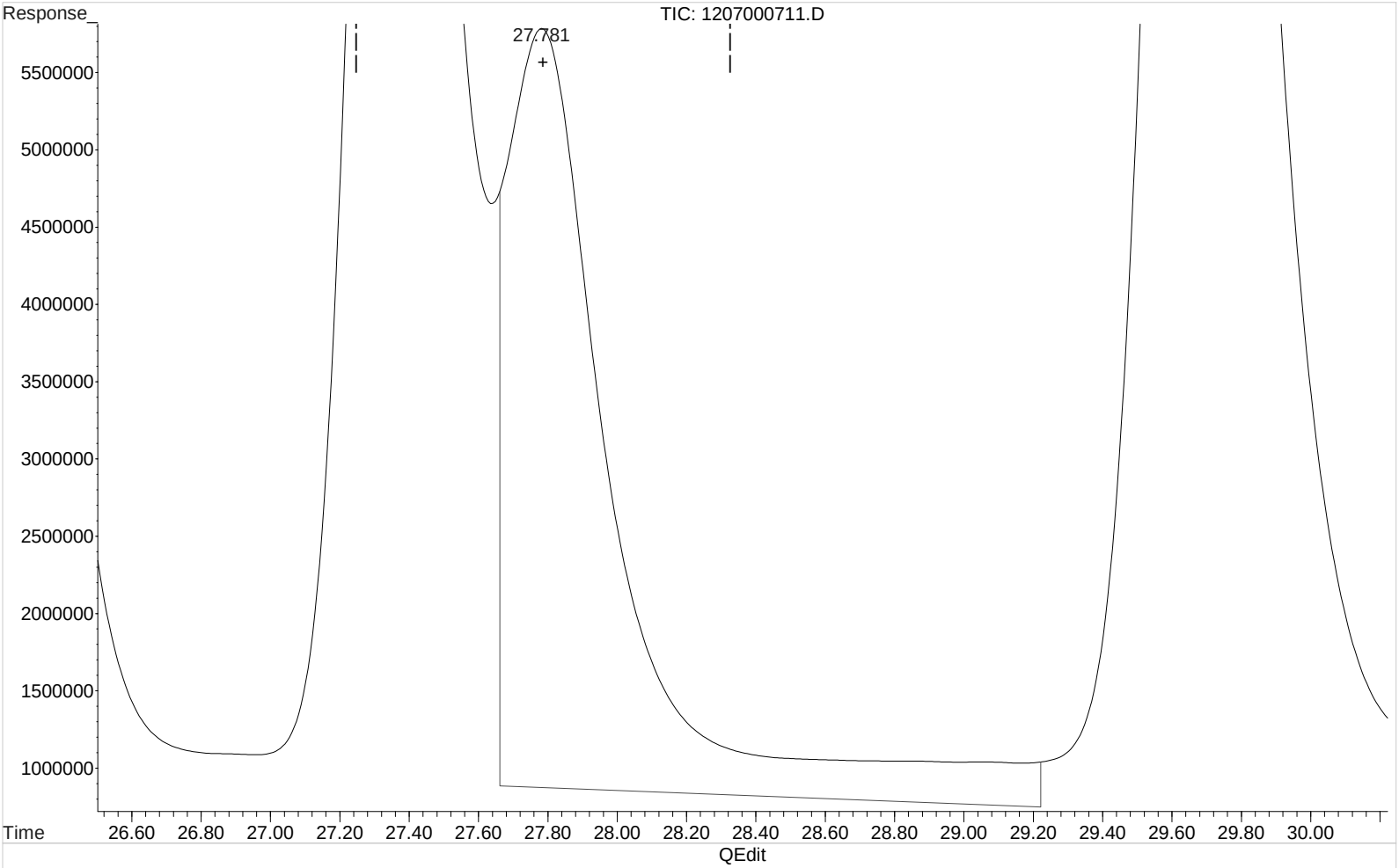
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:35:15 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.781min 5440.778 ug/L

response 105004749

Manual Integration:

Before

12/08/16

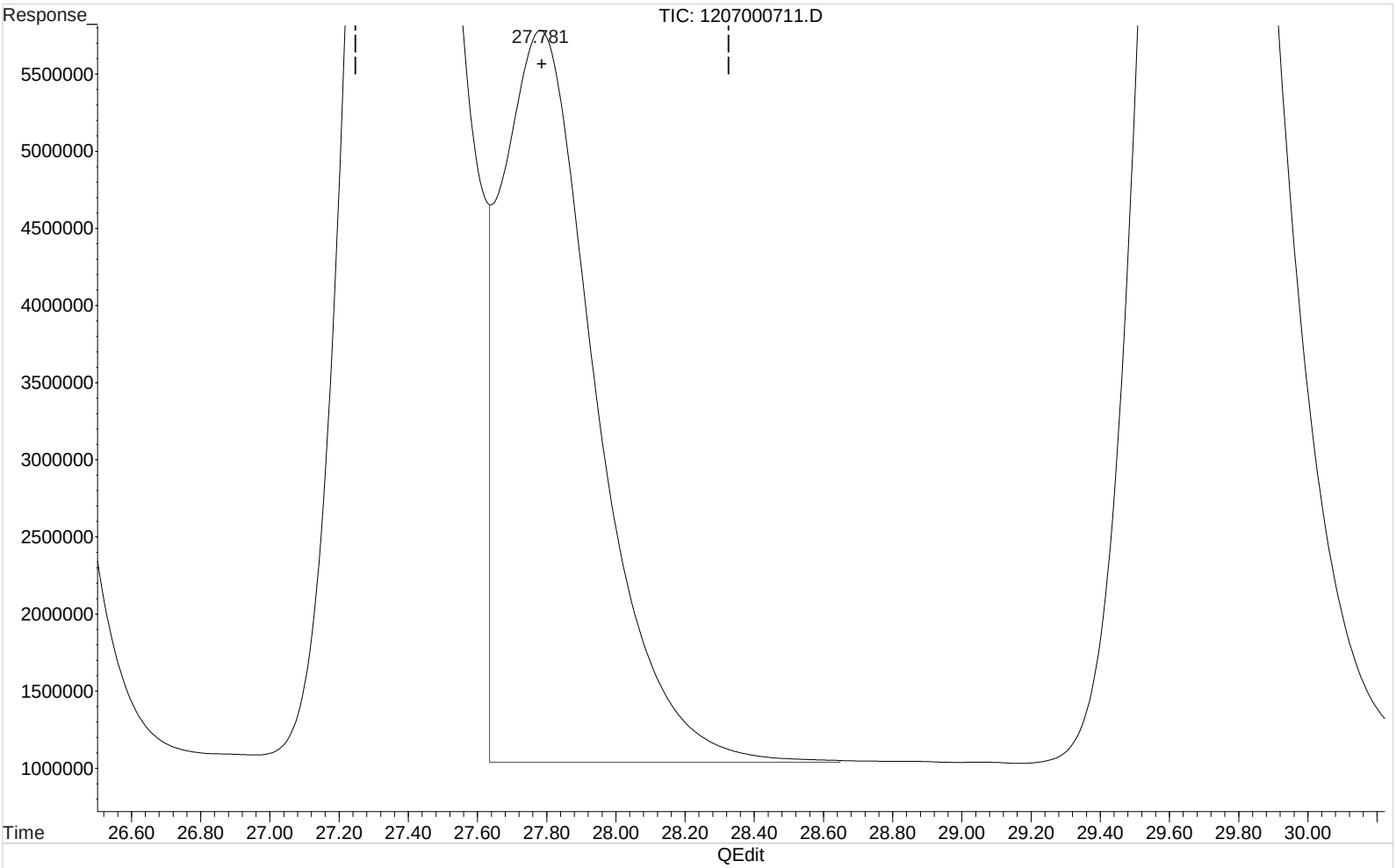
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:35:15 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.781min 4660.595 ug/L m

response 89947543

Manual Integration:

After

BLC

12/08/16

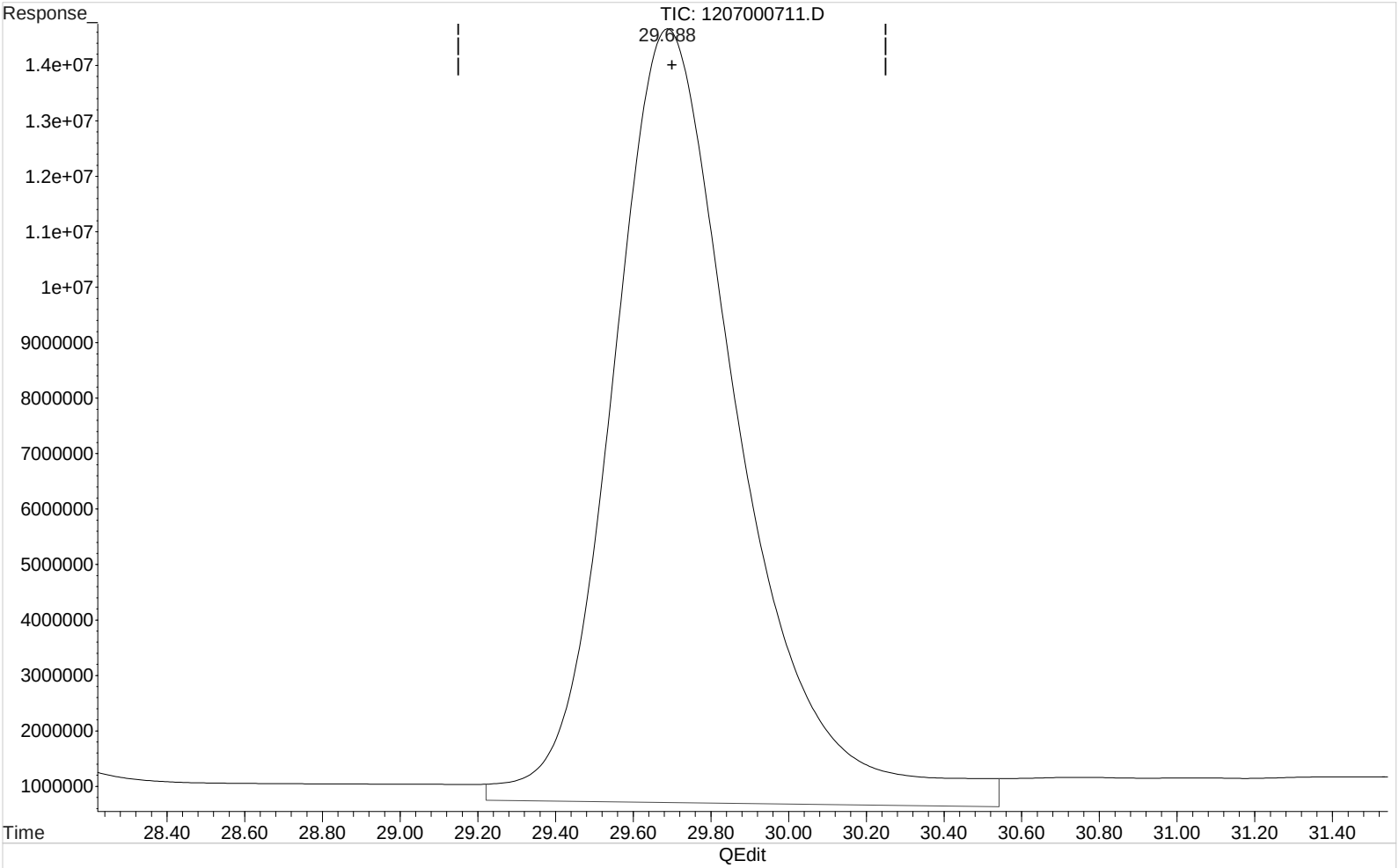
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:35:15 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

29.688min 5541.212 ug/L

response 320618313

Manual Integration:

Before

12/08/16

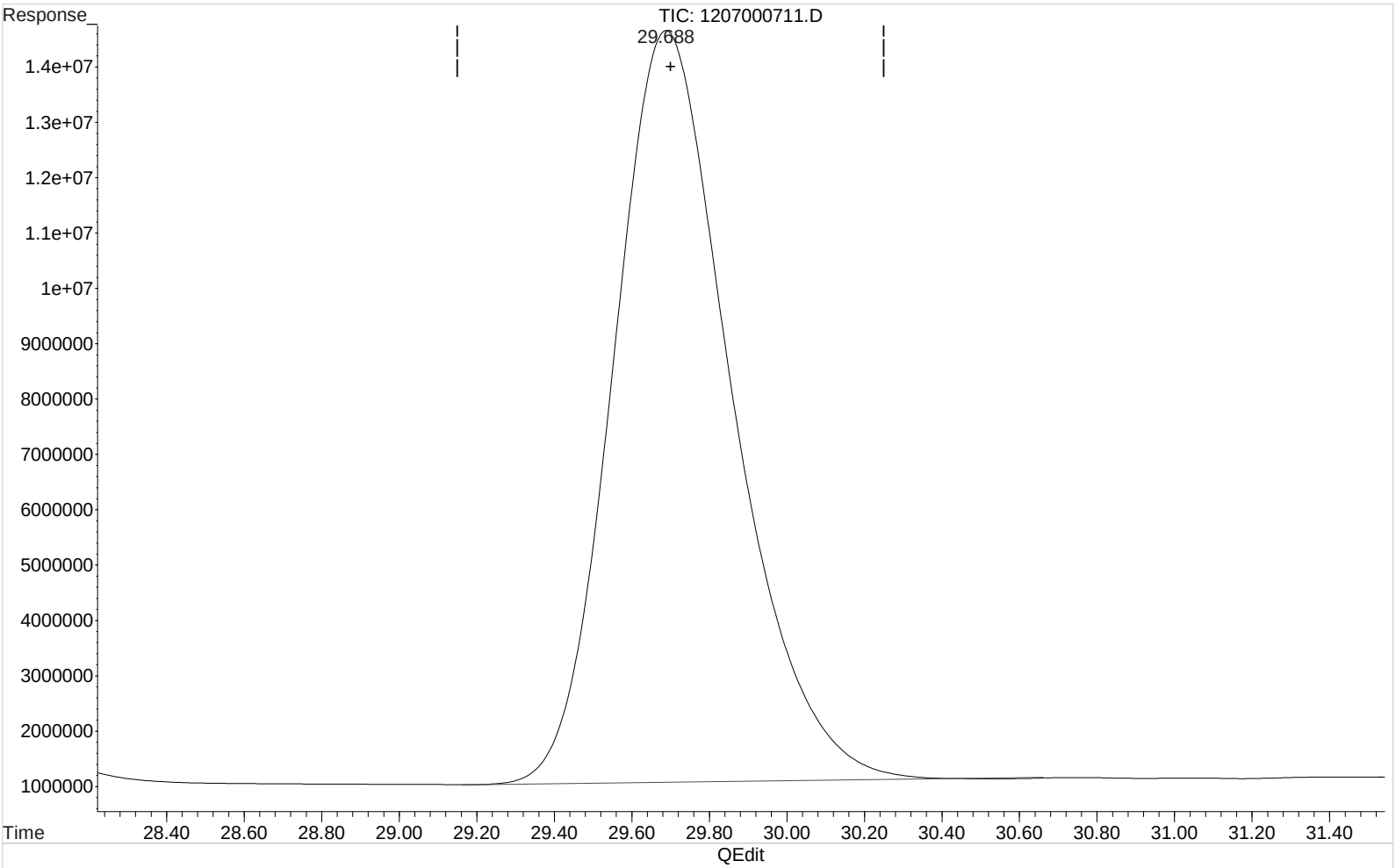
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:35:15 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.688min 4988.087 ug/L m

response 288614109

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000712.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:09:08 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:37:03 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.704	495774702	8571.338	ug/L	
Target Compounds						
1) T	Nitroglycerin	16.638	204600197	9302.543	ug/L	m
2) T	PETN	27.791	173278128	9066.254	ug/L	m

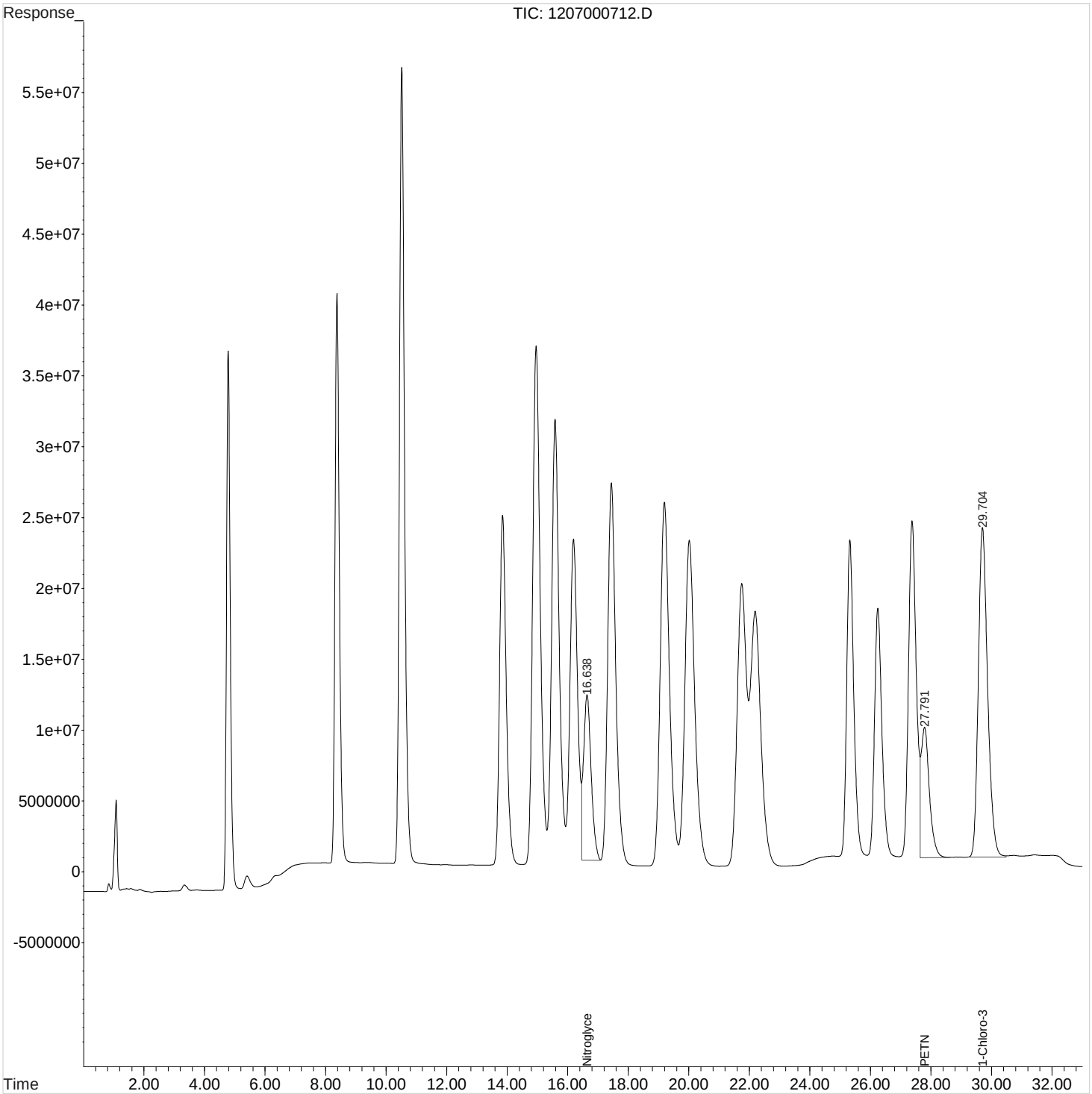
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000712.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:09:08 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:37:03 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

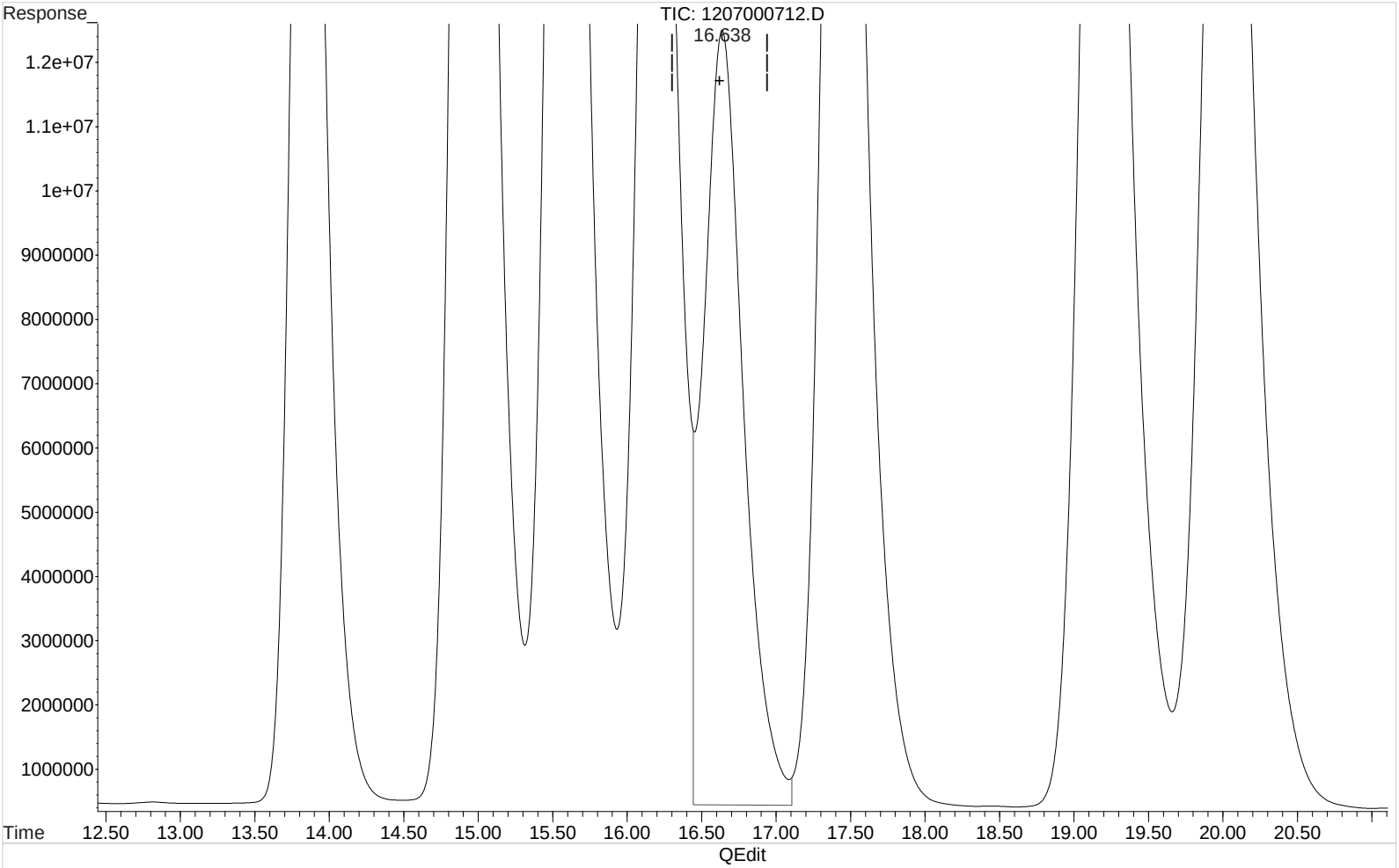


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000712.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:37:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:37:03 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.638min 10174.148 ug/L

response 223770282

Manual Integration:

Before

12/08/16

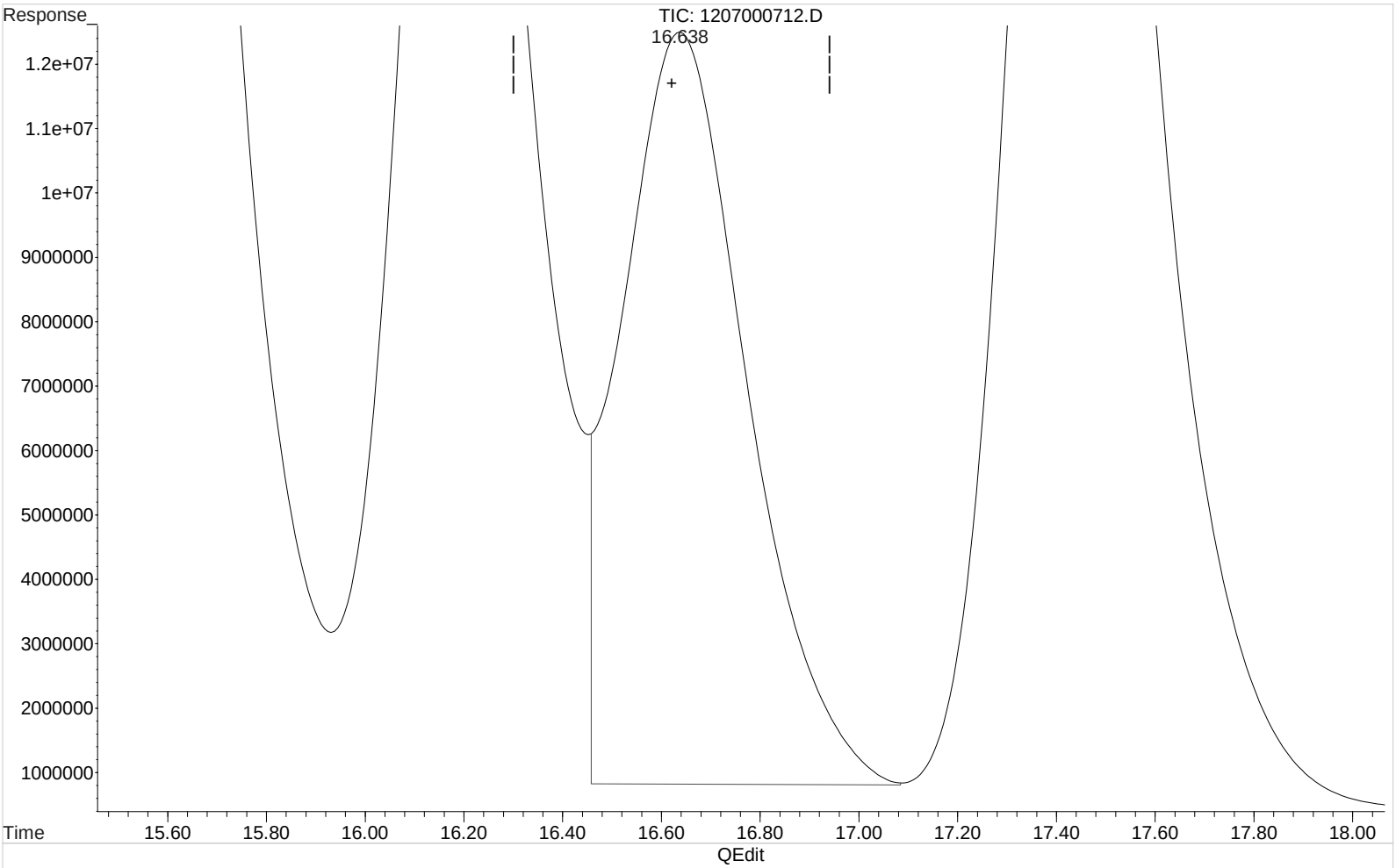
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000712.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:38:00 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:37:03 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.638min 9302.543 ug/L m

response 204600197

Manual Integration:

After

Baseline/Shoulder

12/08/16

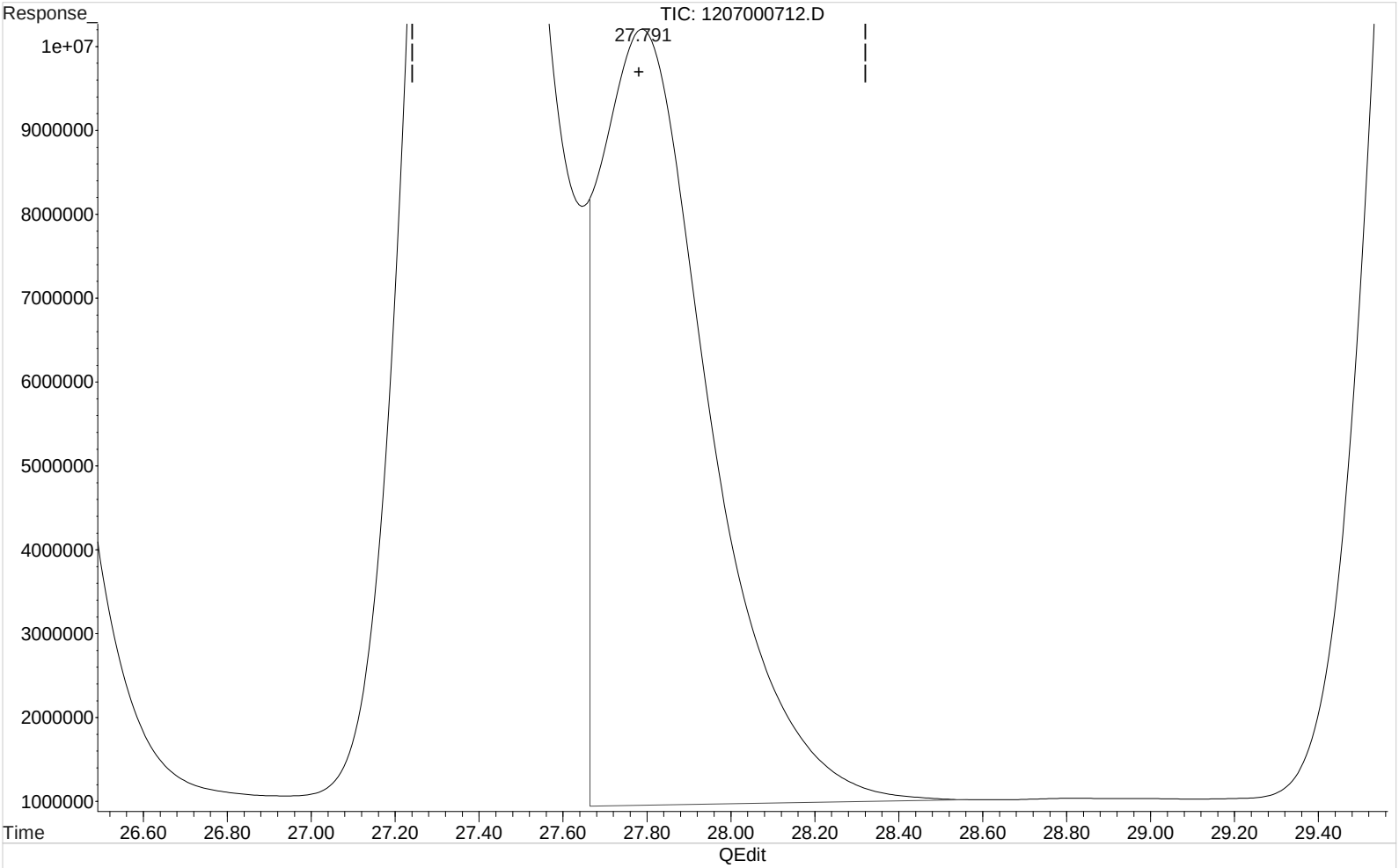
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000712.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:37:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:37:03 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.791min 8680.900 ug/L

response 165913087

Manual Integration:

Before

12/08/16

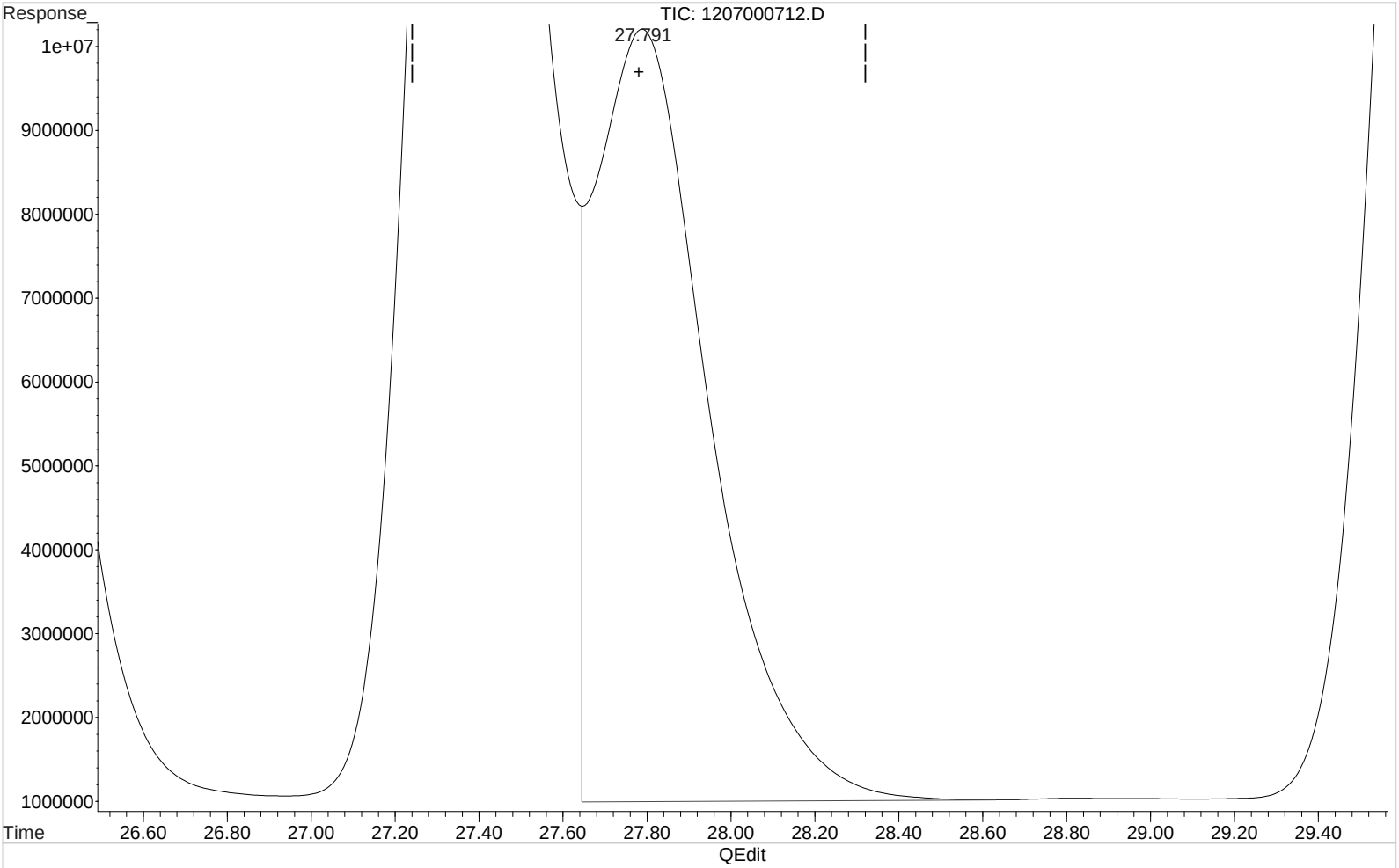
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000712.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:37:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:37:03 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.791min 9066.254 ug/L m

response 173278128

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000713.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:09:26 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:38:20 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.704	1145844586	20170.461	ug/L	
Target Compounds						
1) T	Nitroglycerin	16.624	424970178	19359.201	ug/L	m
2) T	PETN	27.797	360374404	19078.177	ug/L	m

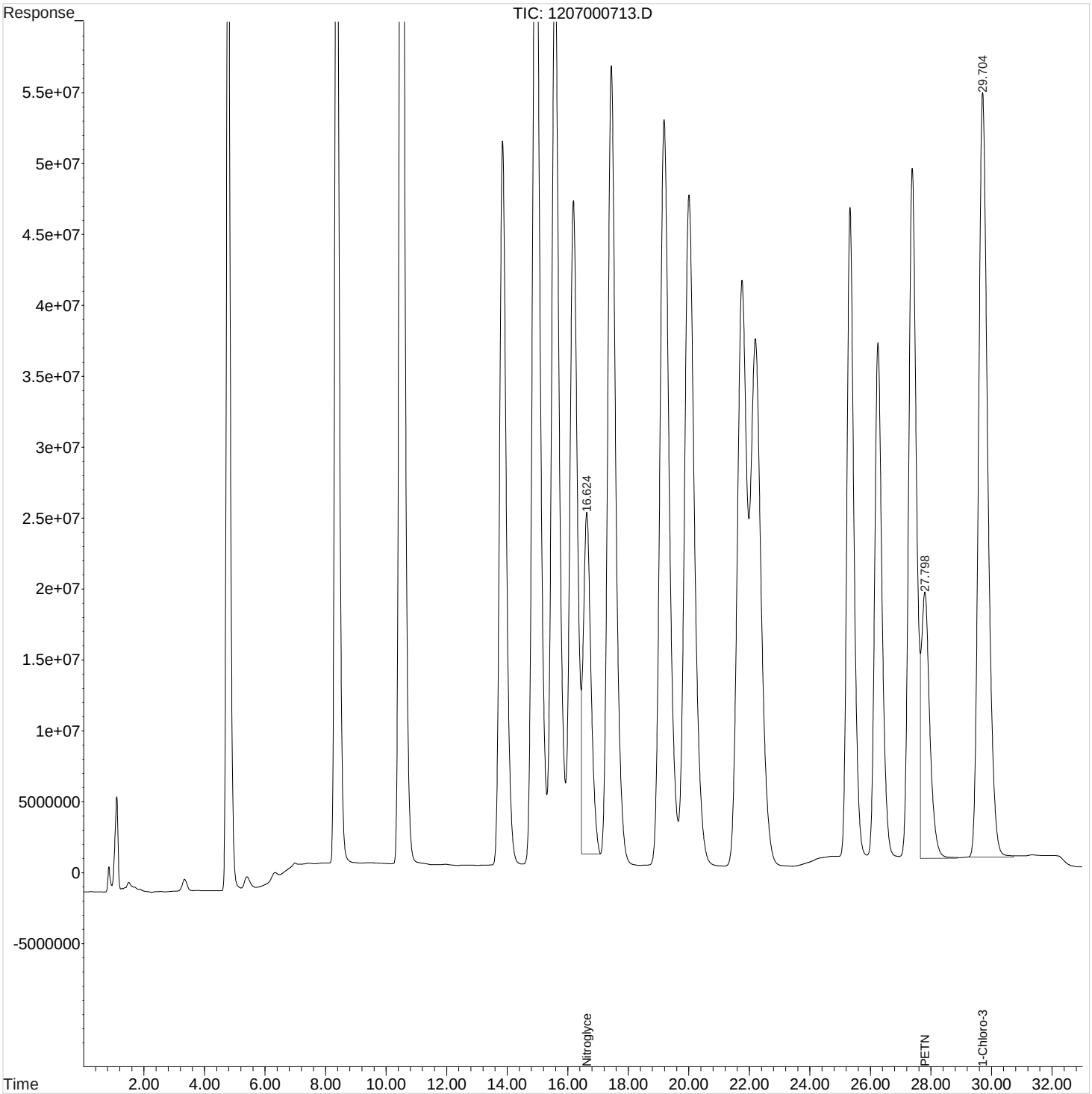
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000713.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:09:26 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:38:20 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

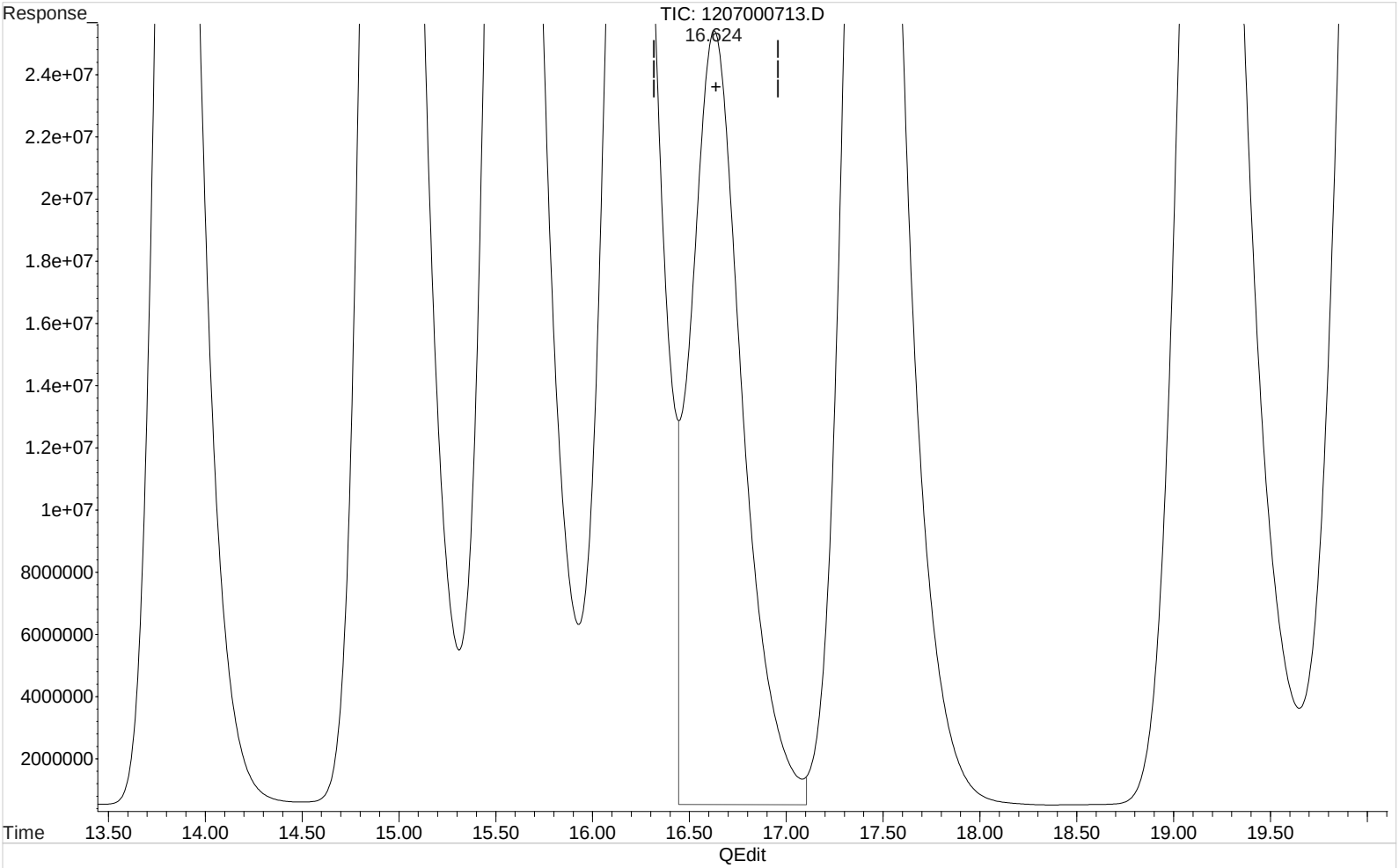


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000713.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:38:32 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:38:20 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.624min 21000.929 ug/L

response 461009128

Manual Integration:

Before

12/08/16

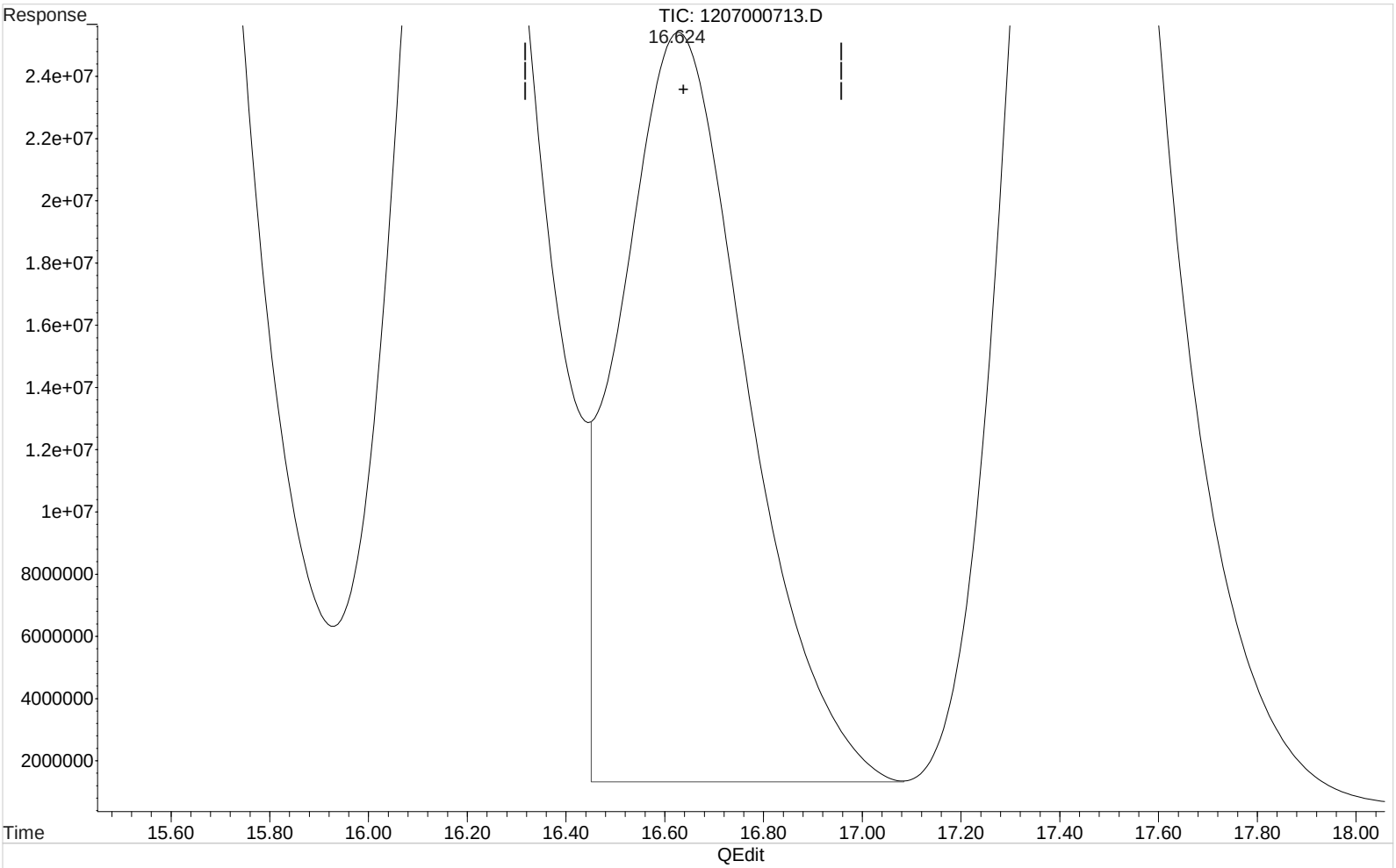
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000713.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:39:06 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:38:20 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.624min 19359.201 ug/L m

response 424970178

Manual Integration:

After

Baseline/Shoulder

12/08/16

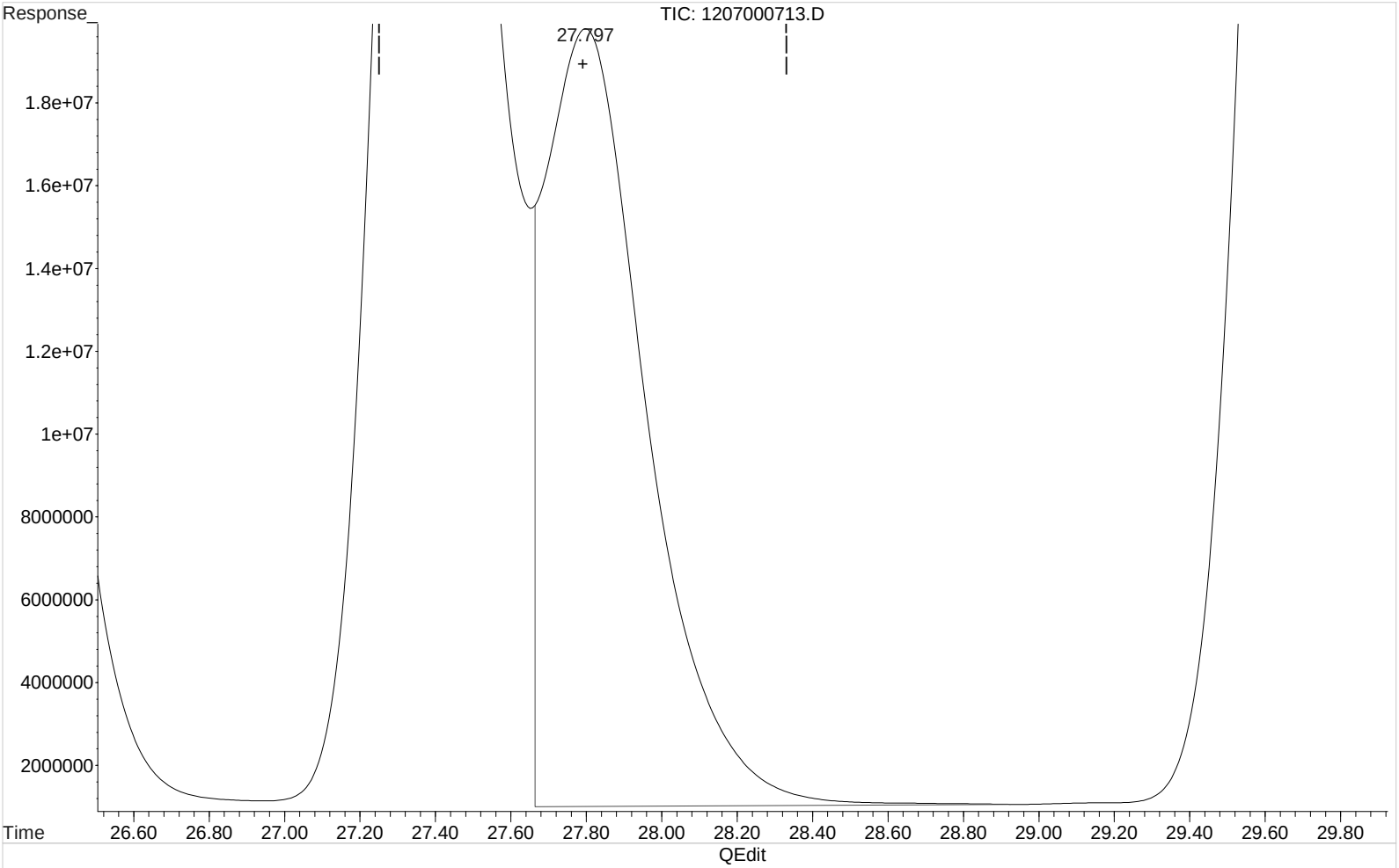
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000713.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:38:32 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:38:20 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.797min 18418.928 ug/L

response 347921609

Manual Integration:

Before

12/08/16

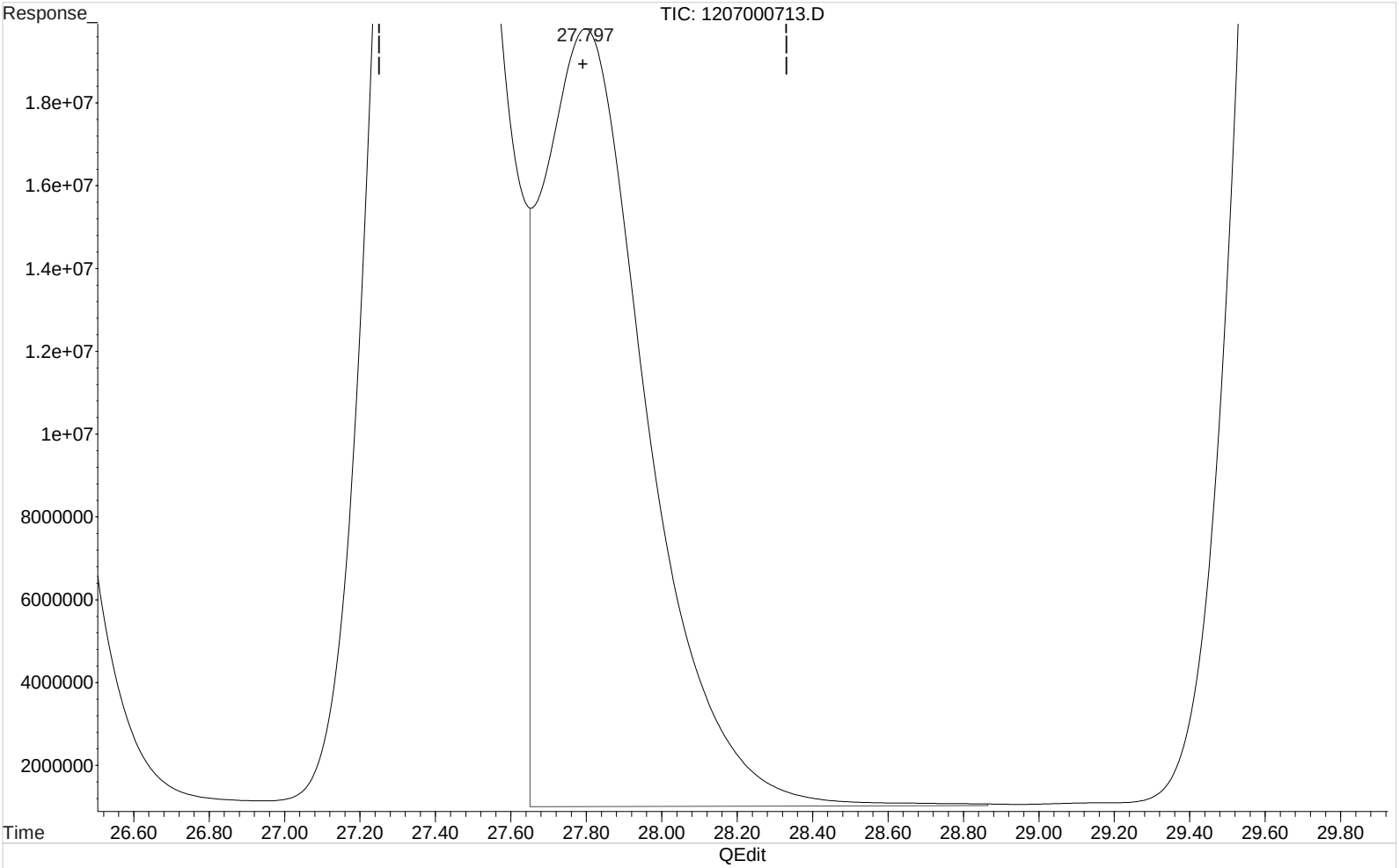
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000713.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:38:32 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:38:20 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.797min 19078.177 ug/L m

response 360374404

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000715.D Vial: 13
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:31:00 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:30:11 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.691	470830412	8280.252	ug/L	
Target Compounds						
1) T	Nitroglycerin	16.637	193613600	9287.498	ug/L	m
2) T	PETN	27.778	158765185	9023.071	ug/L	m

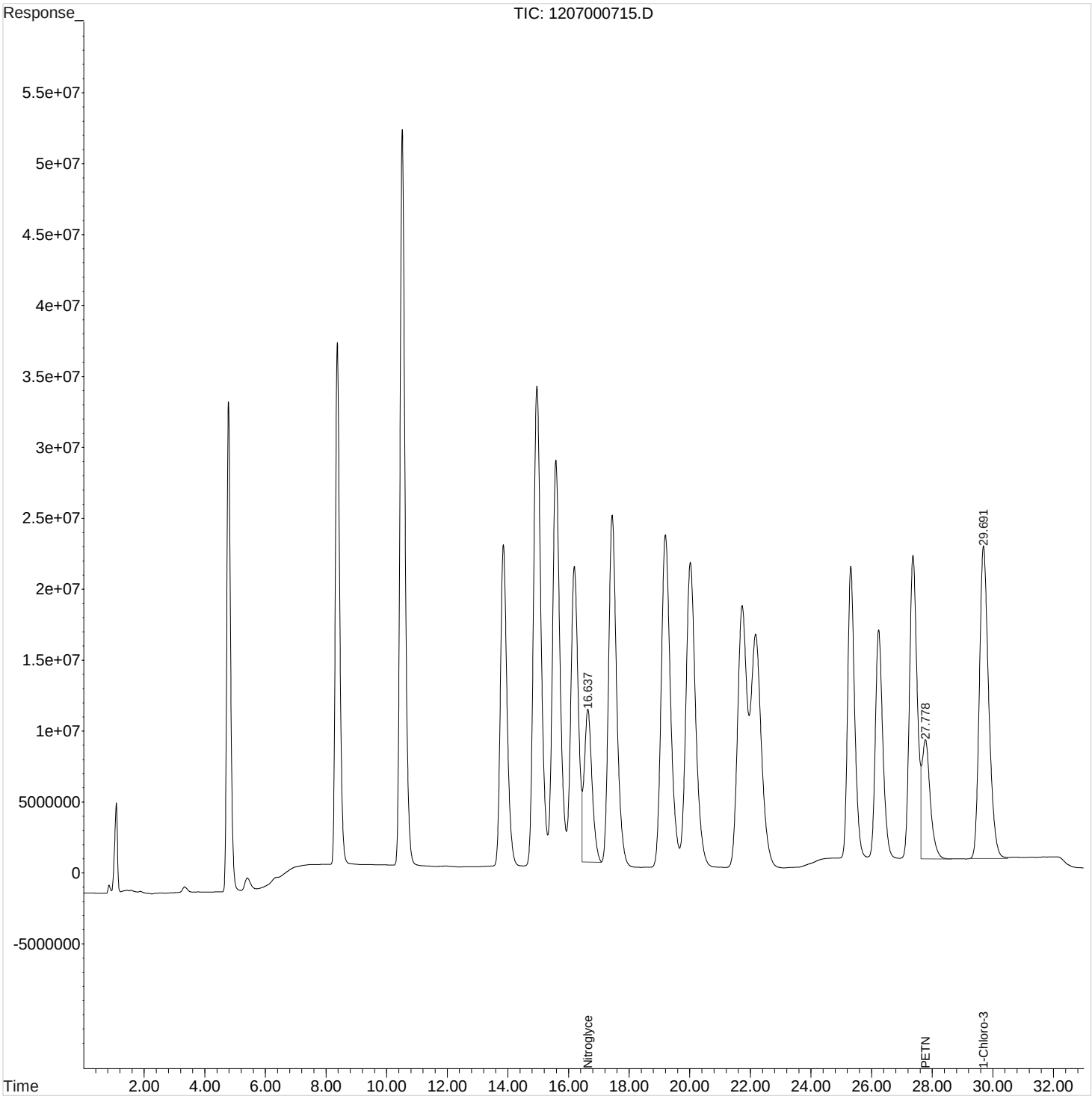
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000715.D Vial: 13
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:31:00 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:30:11 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

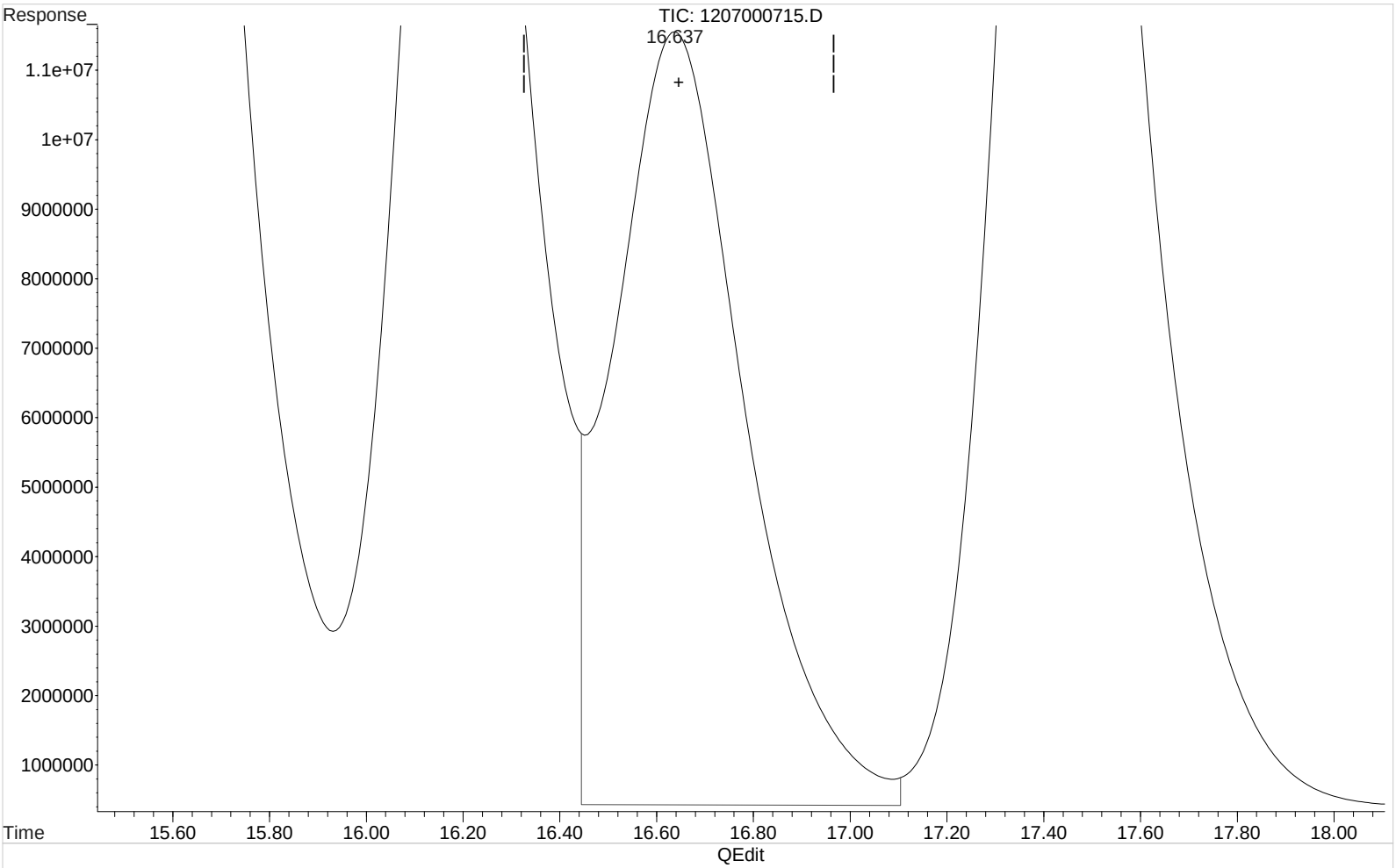


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000715.D Vial: 13
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:30:40 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:30:11 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.637min 9917.726 ug/L

response 206751766

Manual Integration:

Before

12/08/16

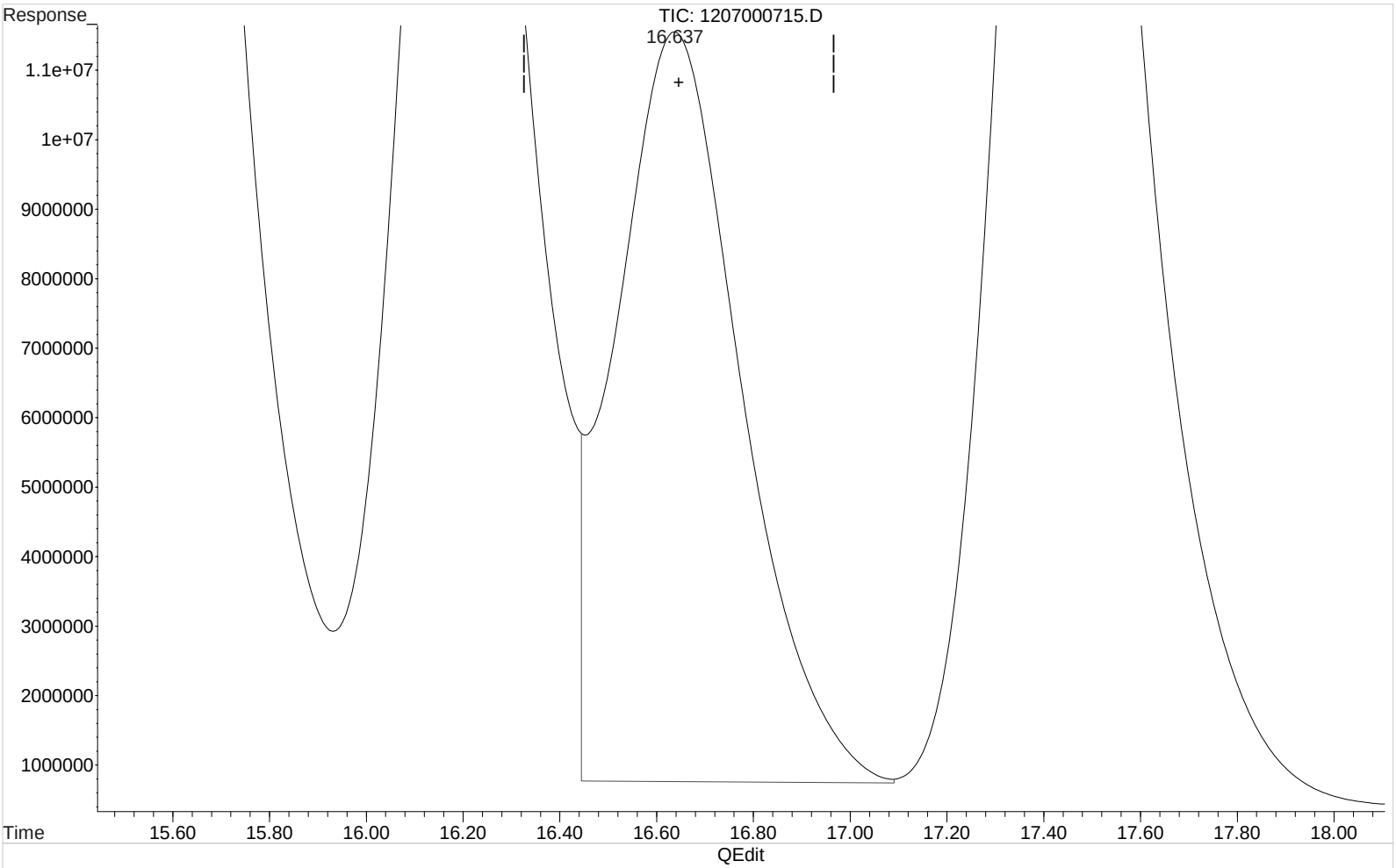
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000715.D Vial: 13
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:30:40 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:30:11 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.637min 9287.498 ug/L m

response 193613600

Manual Integration:

After

Baseline/Shoulder

12/08/16

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b) (6)

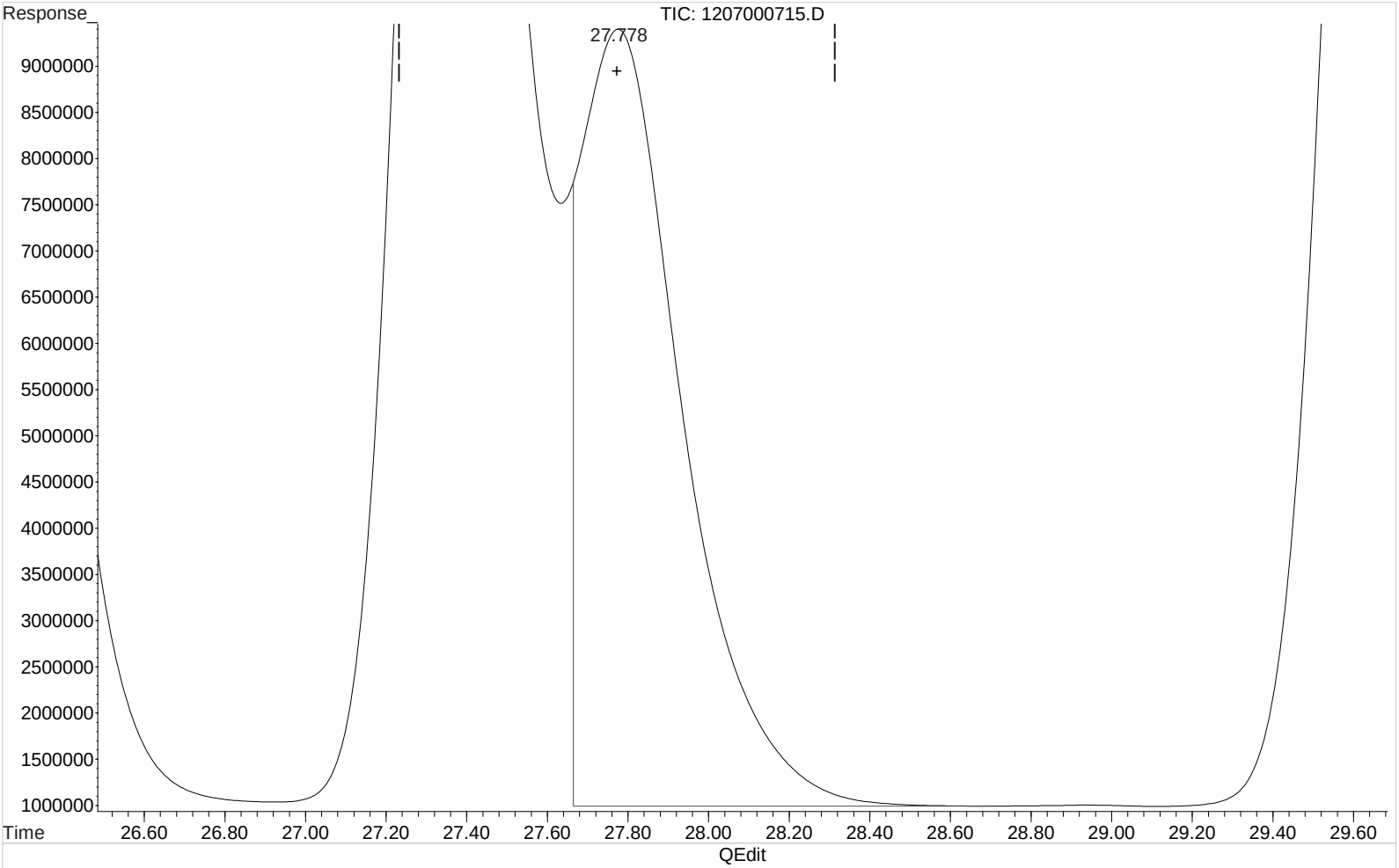
2/08/16

2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000715.D Vial: 13
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:30:40 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:30:11 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.778min 8252.774 ug/L

response 145211446

Manual Integration:

Before

12/08/16

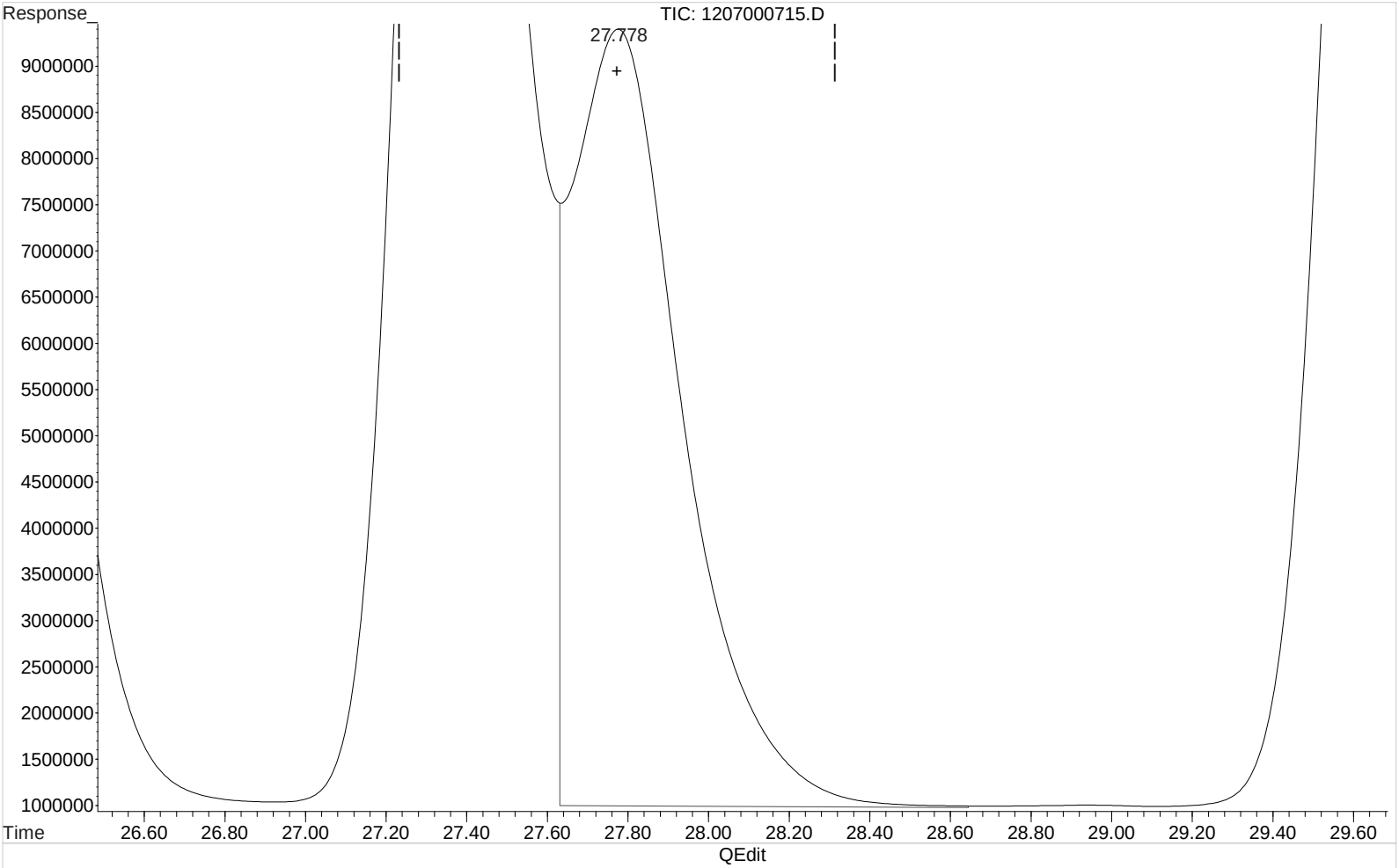
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000715.D Vial: 13
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:30:40 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:30:11 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.778min 9023.071 ug/L m

response 158765185

Manual Integration:

After

Baseline/Shoulder

12/08/16

(+) = Expected Retention Time

Date: 2/9/2017 XC-254 YC-210

ALS Environmental

ICAL Date: 2/9/2017

By: AE

Injection Log

ICAL ID: CAL 15185 (210) CAL 15192 (254)

Stealth ID: N/A **LC8 - Agilent 1260** **LIMS ID:** N/A

2nd Review:

Column: Ultra Aromax SN: 150411353J

Mobile Phases A: MeOH Lot#: 56189 **B:** ACN Lot#: 56207 **C:** H_2O Lot#: 56160 NA

		File Name	Method	Dilution	R	Comments
1	PRIMER	0209000101	8330BXC.M	NA		
2	PRIMER	0209000102	8330BXC.M	NA	X	
3	IB	0209000103	8330BXC.M	NA	X	
4	17-OLC-01-09J 20 PPB	0209000104	8330BXC.M	NA	X	
5	17-OLC-01-09I 50 PPB	0209000105	8330BXC.M	NA	X	
6	17-OLC-01-09H 100 PPB	0209000106	8330BXC.M	NA	X	
7	17-OLC-01-09G 200 PPB	0209000107	8330BXC.M	NA	X	
8	17-OLC-01-09F 500 PPB	0209000108	8330BXC.M	NA	X	
9	17-OLC-01-09E 1000 PPB	0209000109	8330BXC.M	NA	X	
10	17-OLC-01-09D 2000 PPB	0209000110	8330BXC.M	NA	X	
11	17-OLC-01-09C 5000 PPB	0209000111	8330BXC.M	NA	X	
12	17-OLC-01-09B 10000 PPB	0209000112	8330BXC.M	NA	X	
13	17-OLC-01-09A 20000 PPB	0209000113	8330BXC.M	NA	X	
14	IB	0209000114	8330BXC.M	NA	X	
15	17-OLC-01-09K 1000 PPB ICV	0209000115	8330BXC.M	NA	X	
16	IB	0209000116	8330BXC.M	NA	X	

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000103.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 15:23:38 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:39:27 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
Target Compounds					
1) T	Nitroglycerin	0.000	0	N.D.	ug/L
2) T	PETN	0.000	0	N.D.	ug/L d

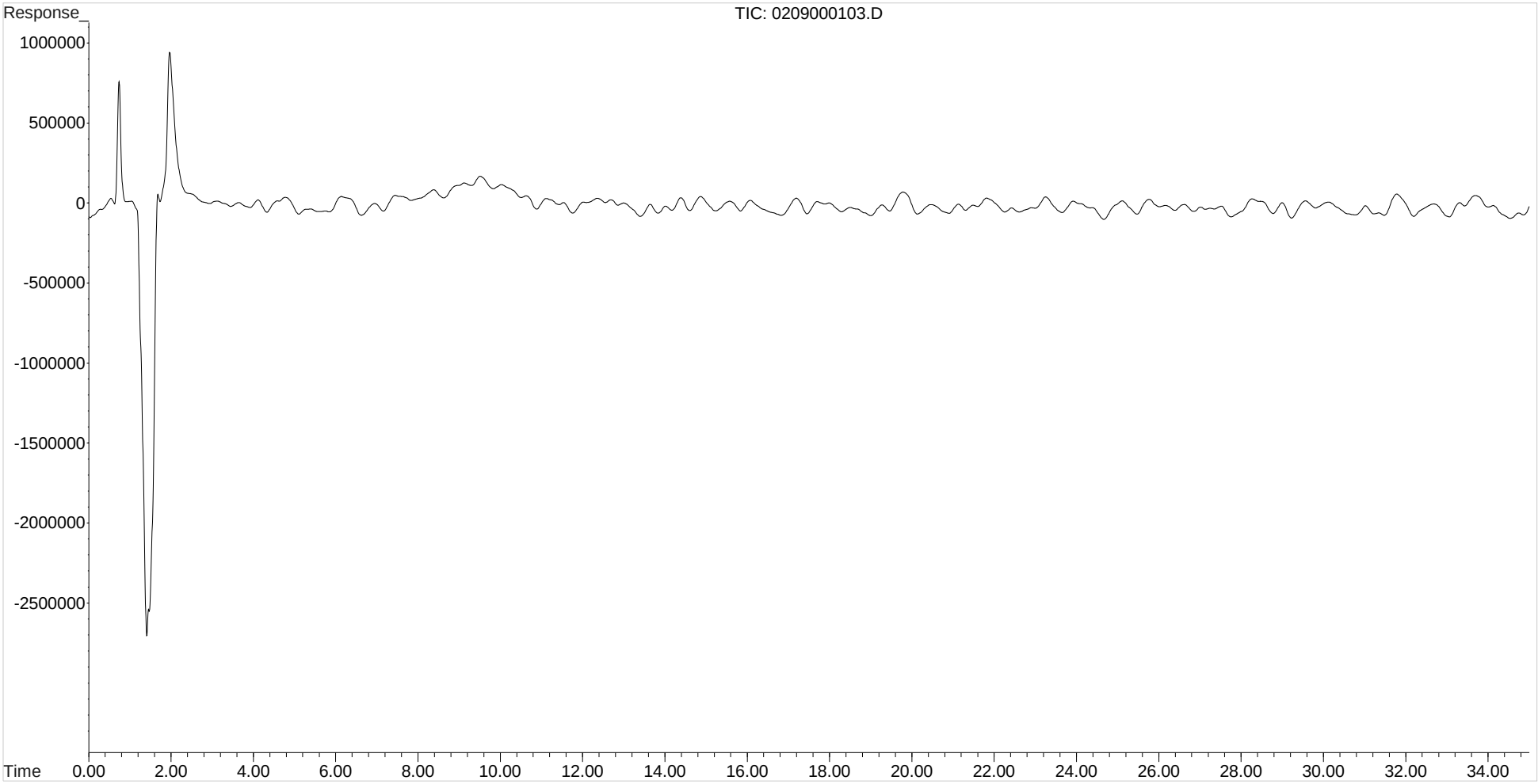
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000103.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 15:23:38 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:39:27 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:33:41 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	8.147	652772	9.384 ug/L m
Target Compounds				
1) T	Nitroglycerin	3.793	1642816	78.604 ug/L m
2) T	PETN	6.980	1691788	20.719 ug/L m

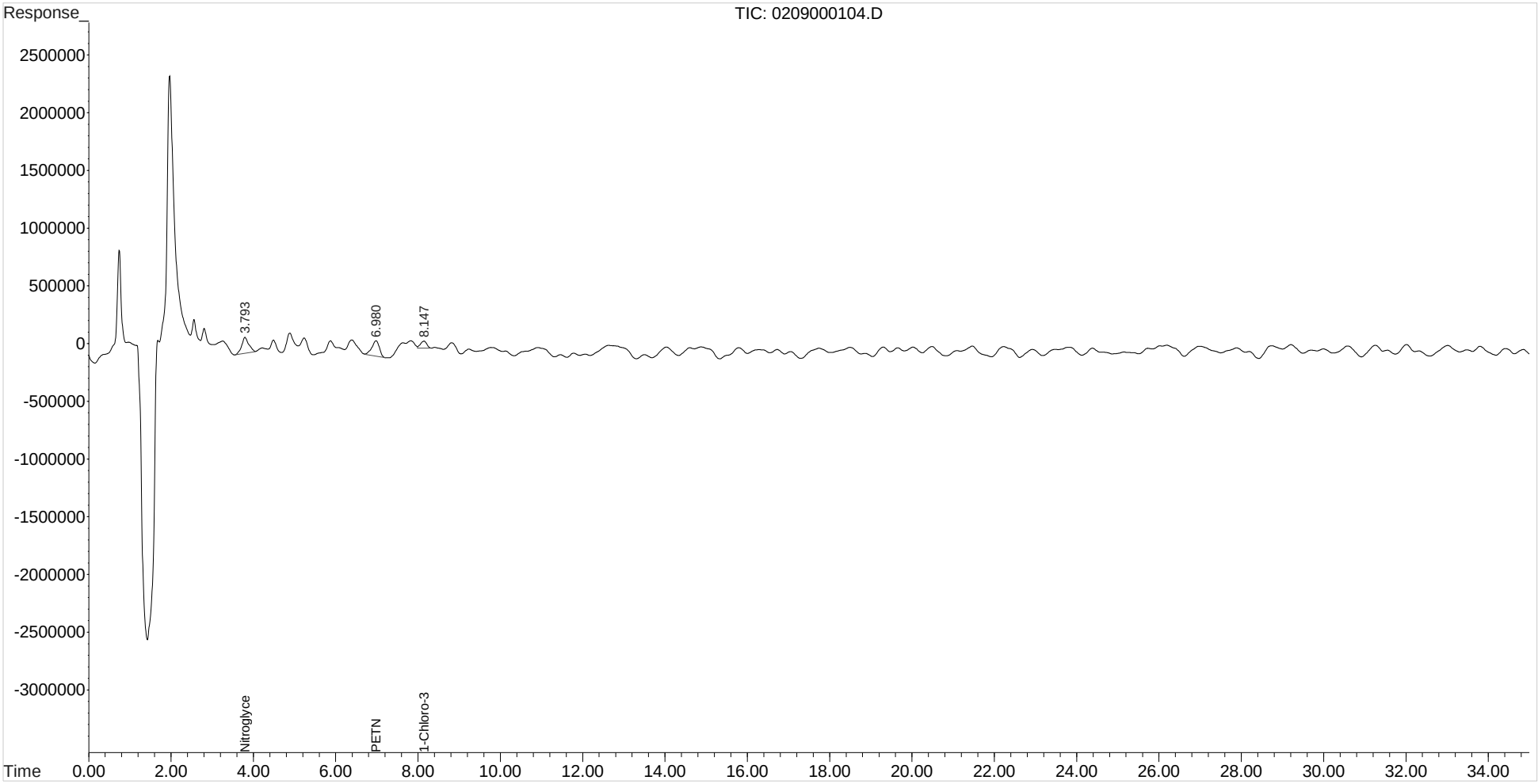
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:33:41 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(b) (6)

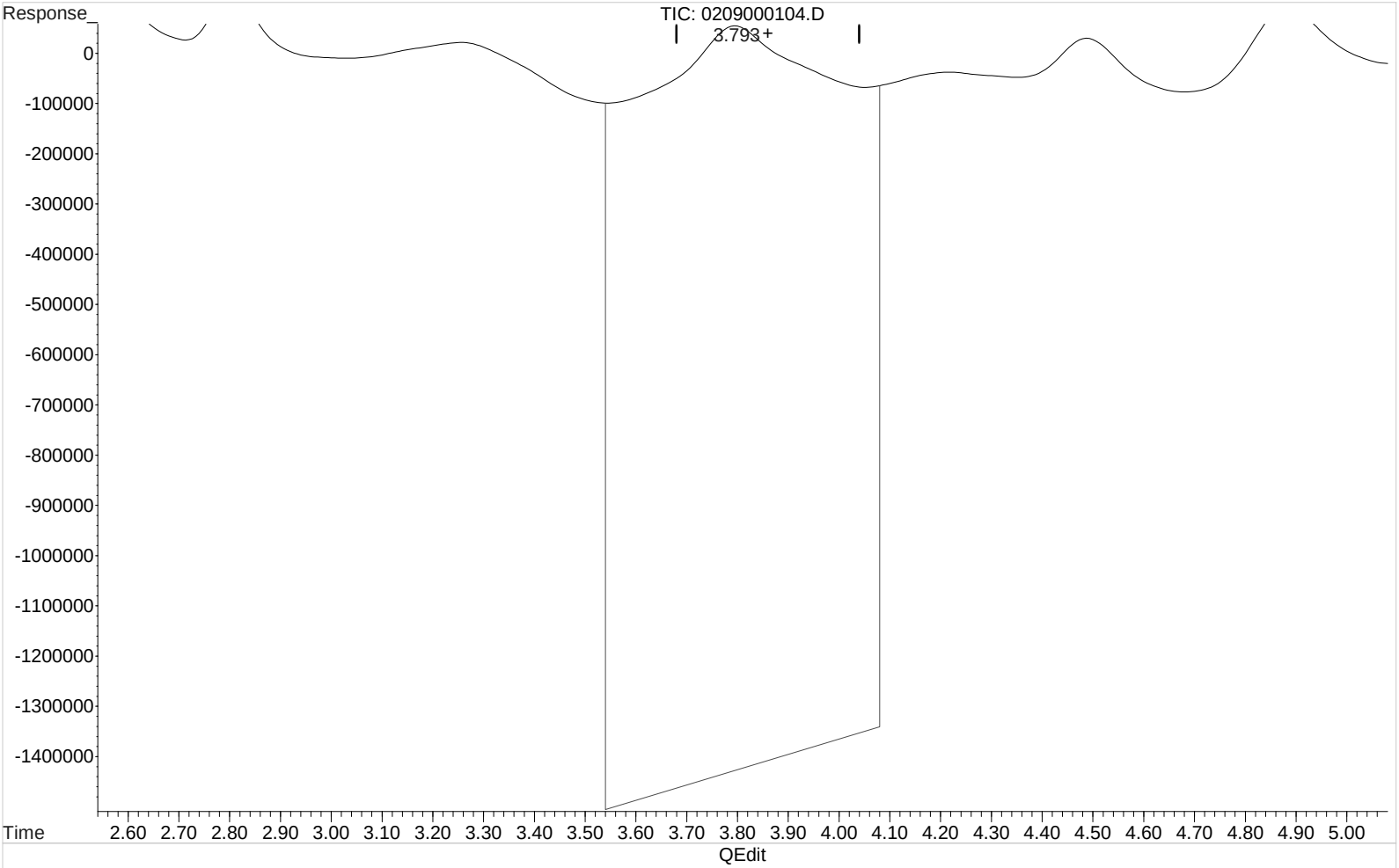
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:44 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.793min 2157.292 ug/L

response 45086986

Manual Integration:

Before

02/10/17

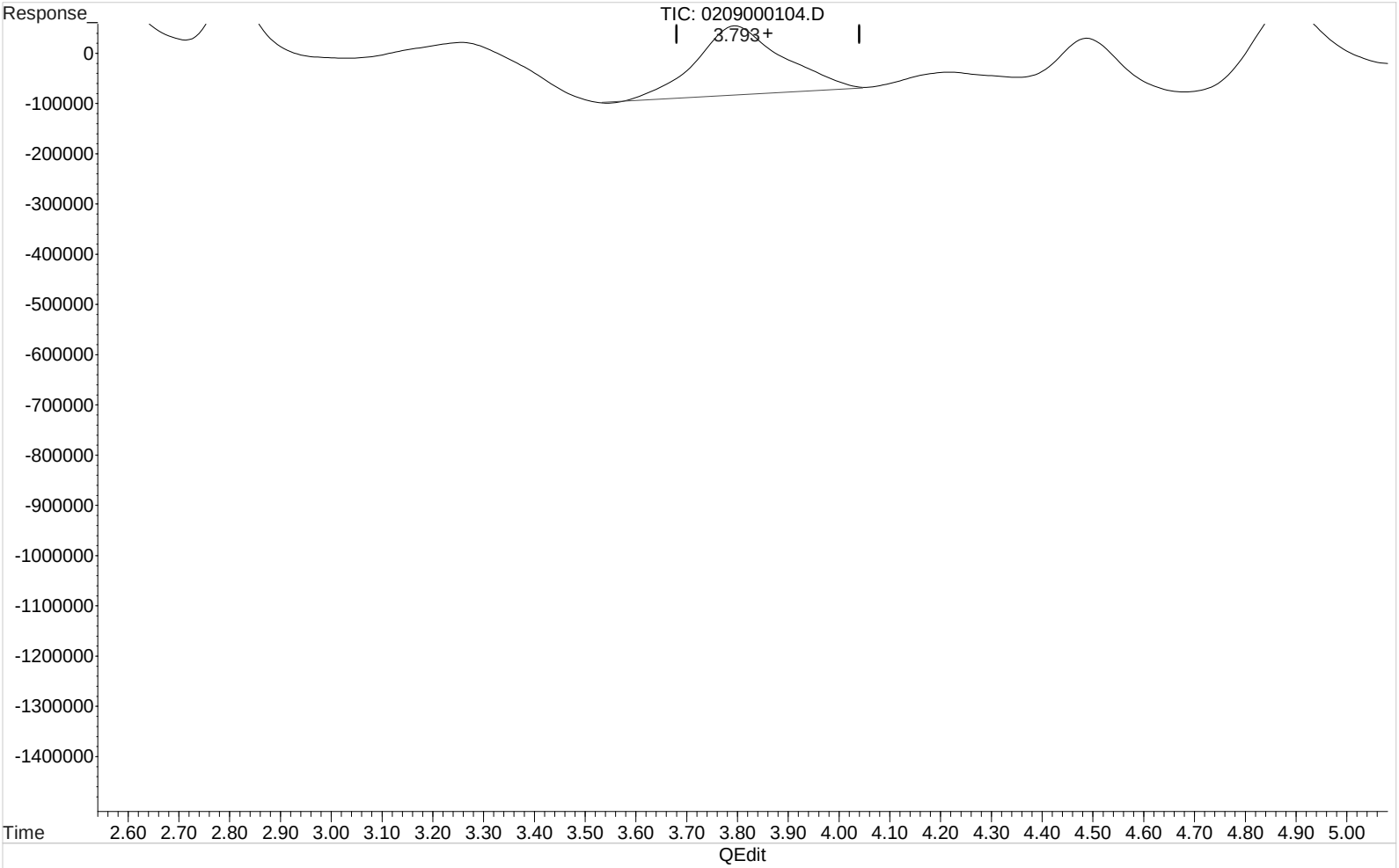
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:44 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.793min 78.604 ug/L m

response 1642816

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

(b) (6)

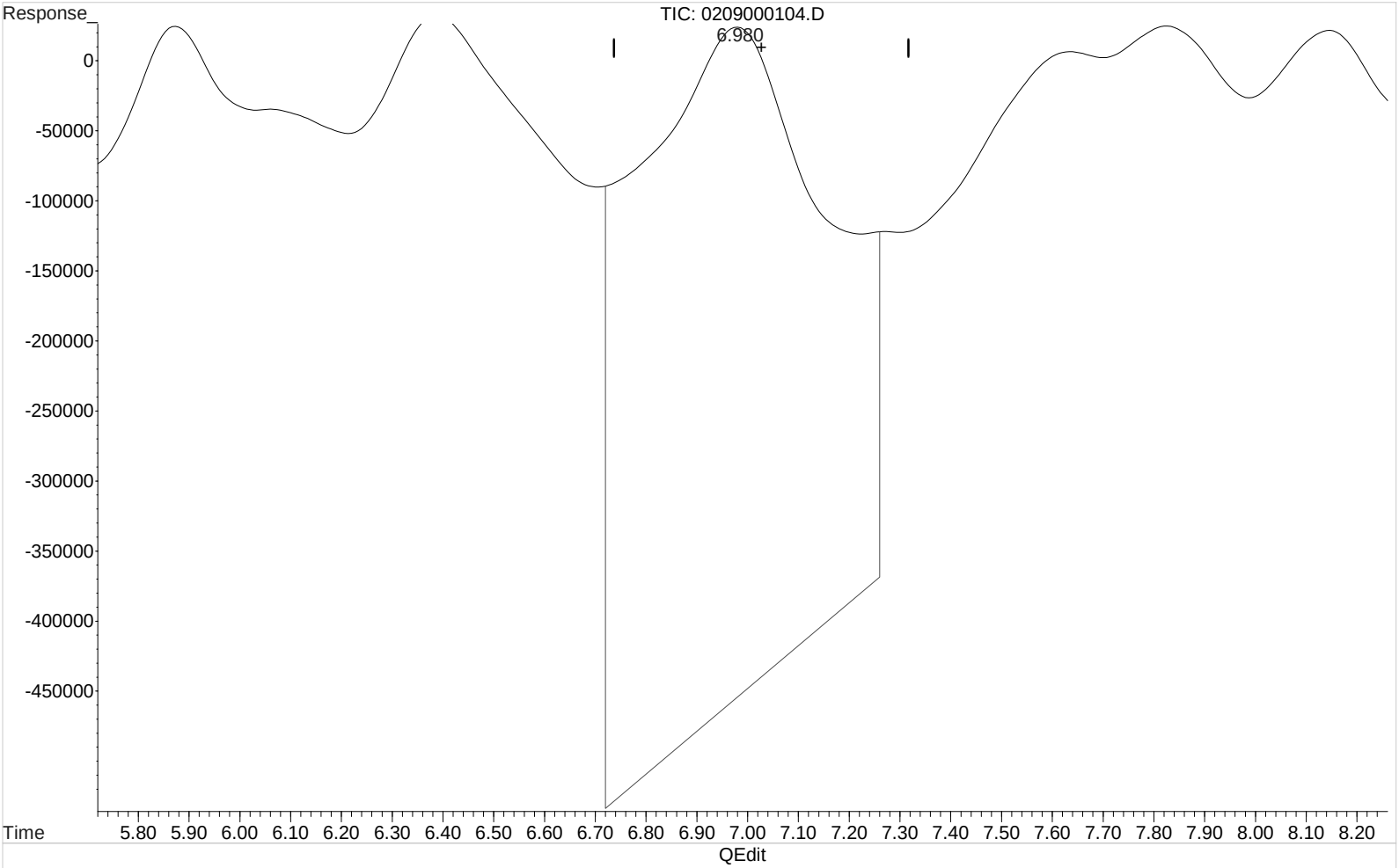
2/13/17

2/17/17

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:44 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.980min 156.268 ug/L

response 12760096

Manual Integration:

Before

02/10/17

(+) = Expected Retention Time

020917_Short_8330B@210.M Fri Feb 10 10:33:20 2017 Page: 1

(b) (6)

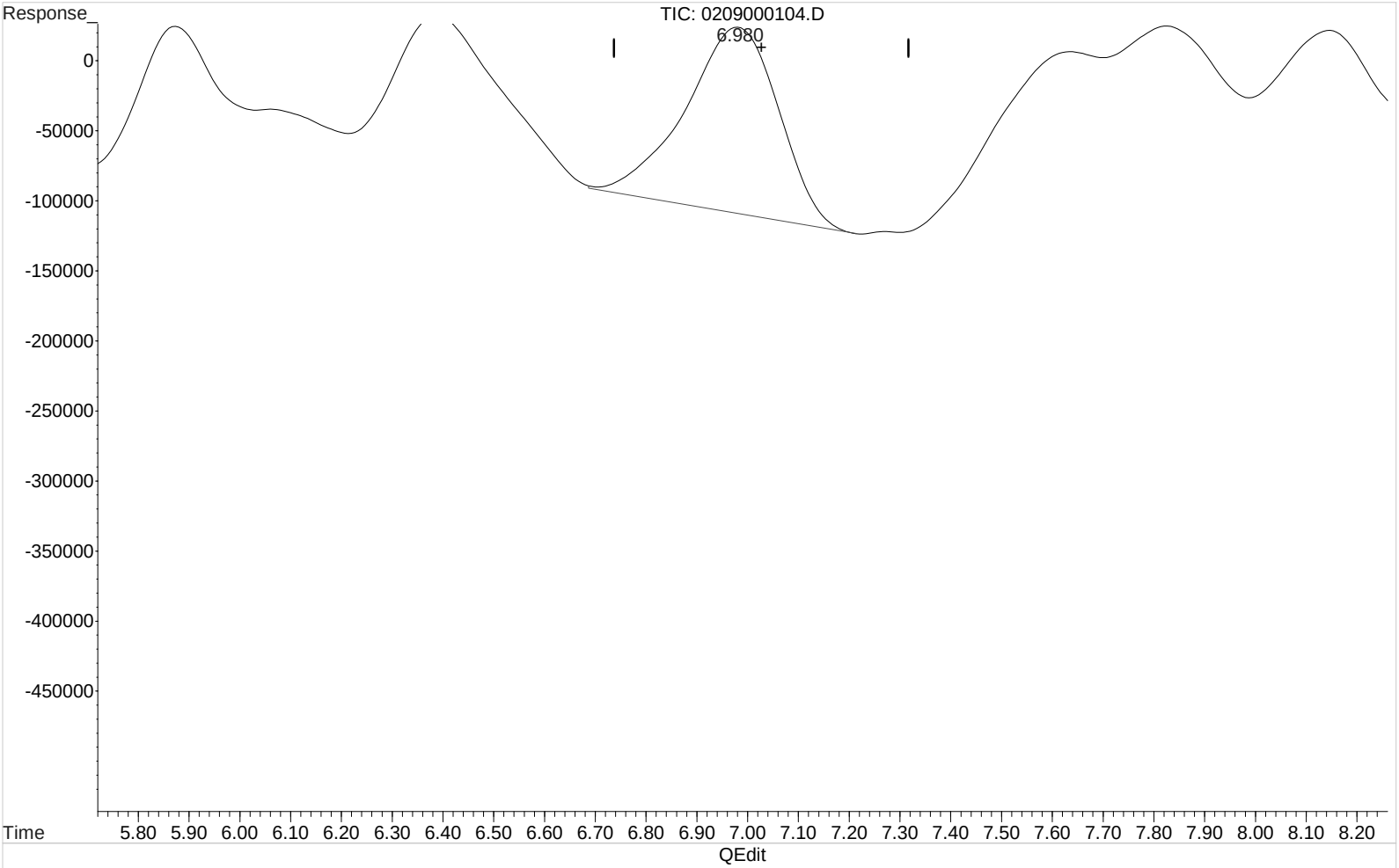
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:44 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.980min 20.719 ug/L m

response 1691788

Manual Integration:

After

BLC

02/10/17

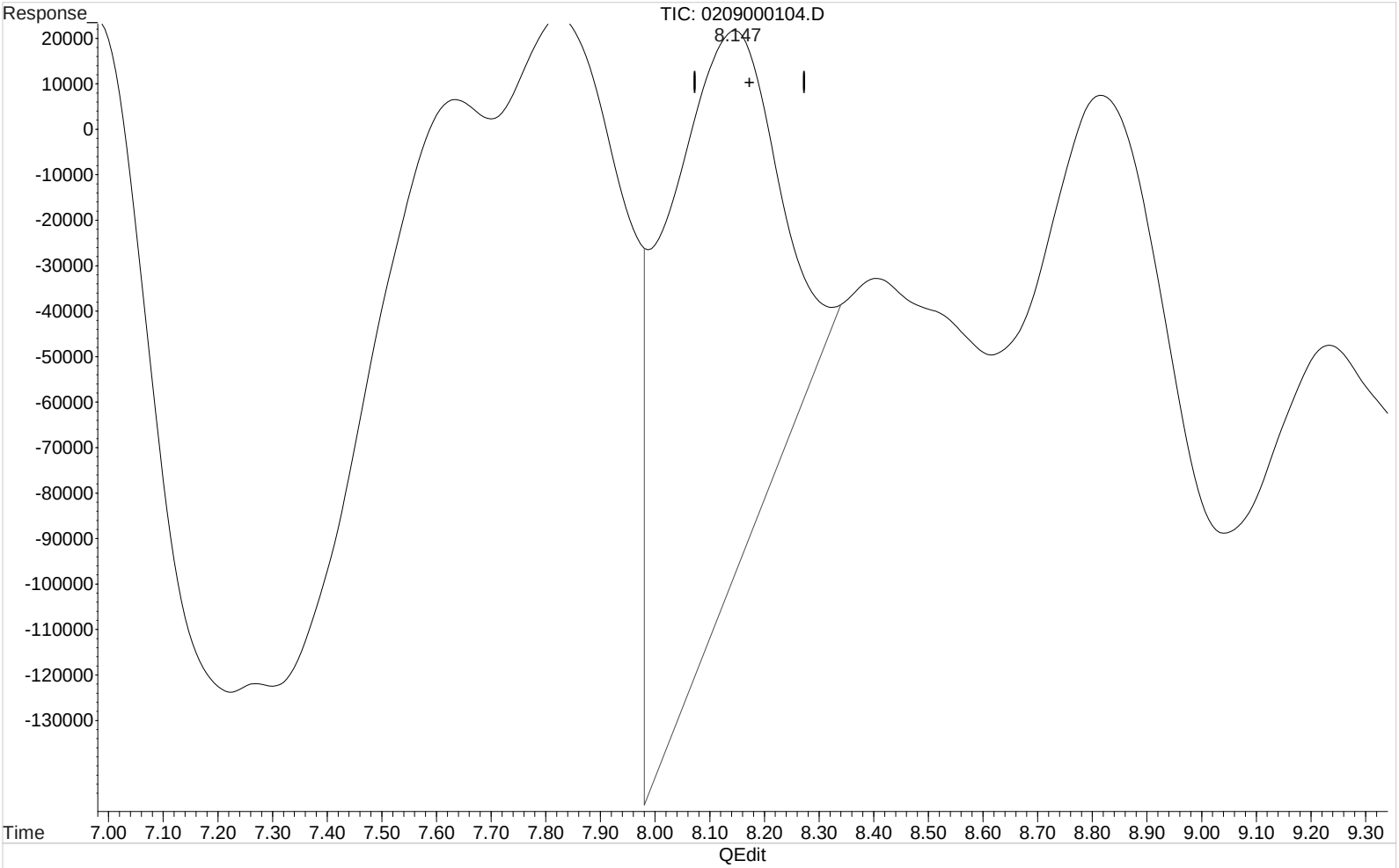
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:44 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.147min 26.209 ug/L

response 1823212

Manual Integration:

Before

02/10/17

(+) = Expected Retention Time

020917_Short_8330B@210.M Fri Feb 10 10:33:28 2017 Page: 1

(b) (6)

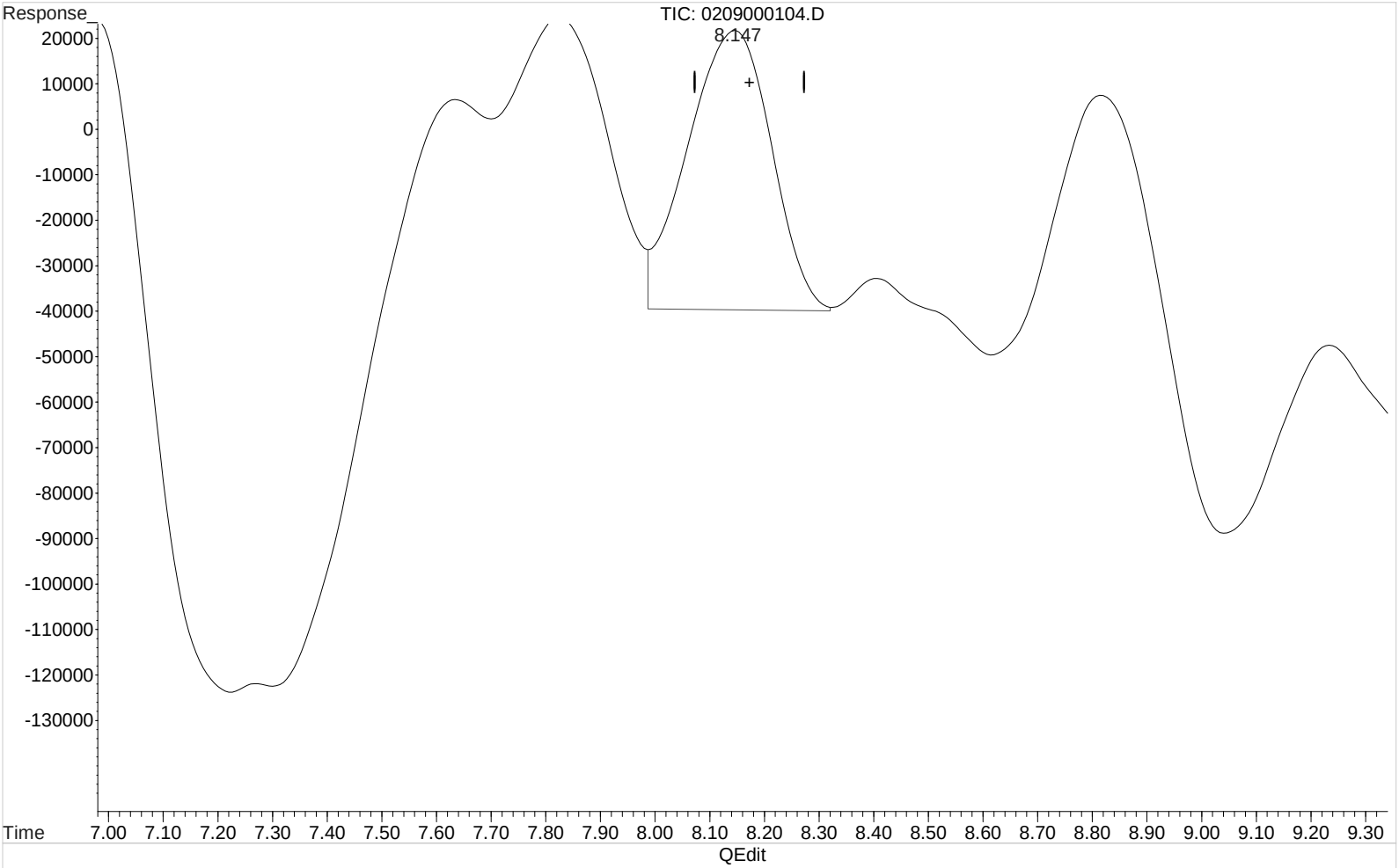
2/13/17

2/17/17

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:44 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.147min 9.384 ug/L m

response 652772

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	8.133	3061814	43.366 ug/L m
Target Compounds				
1) T	Nitroglycerin	3.793	1022712	48.804 ug/L m
2) T	PETN	6.993	3642903	44.021 ug/L m

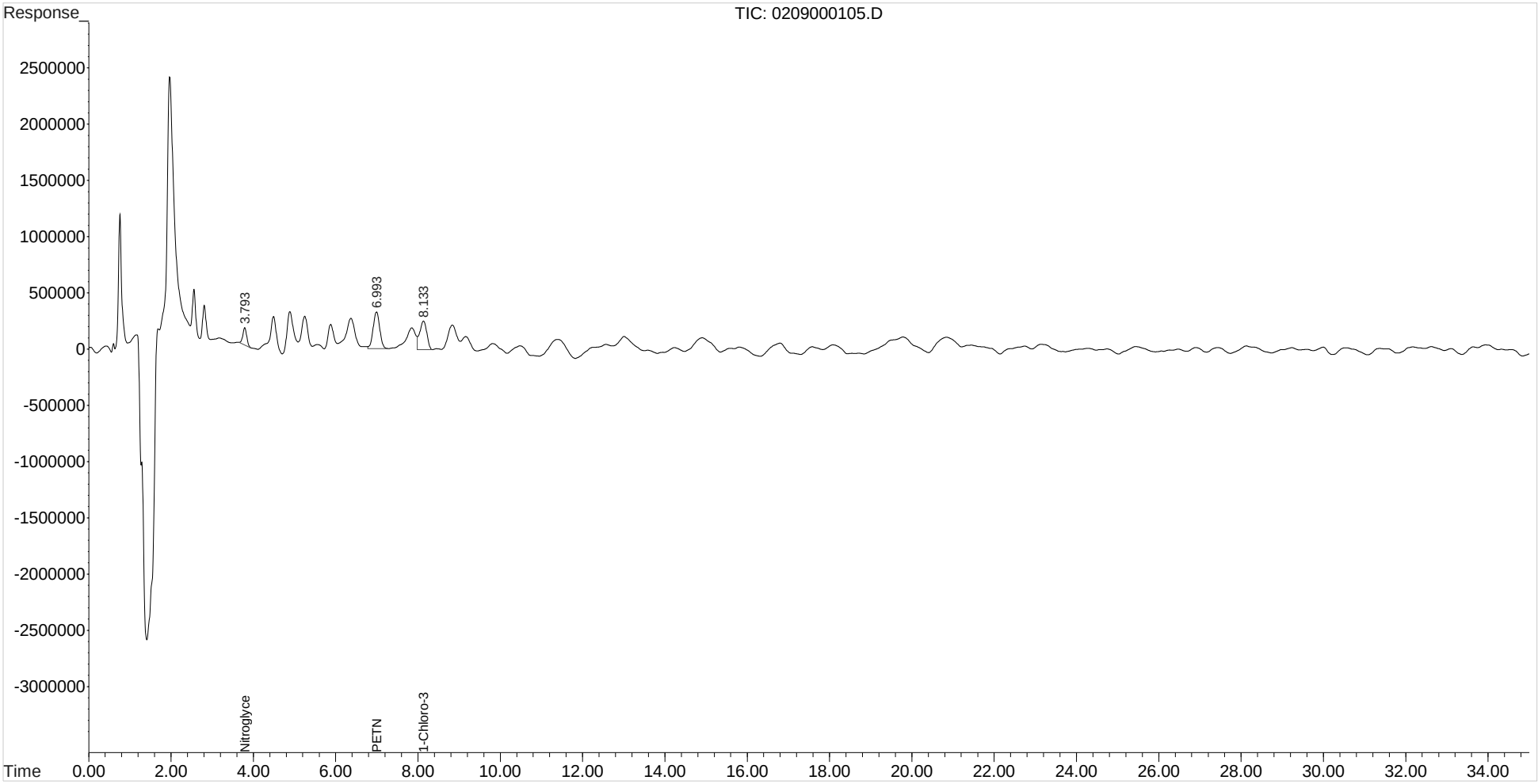
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

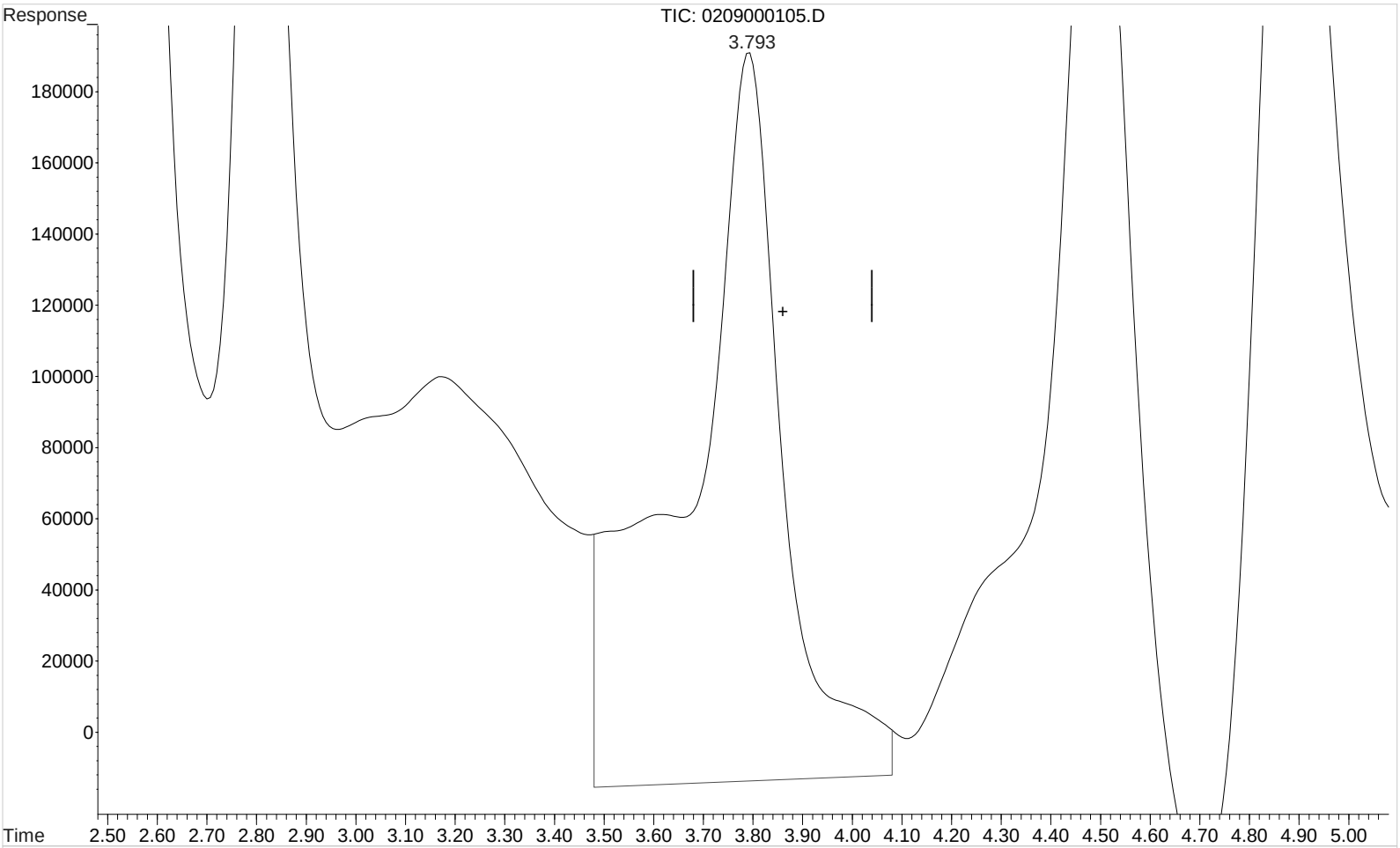


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:25 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.793min 133.146 ug/L

response 2790132

Manual Integration:

Before

02/10/17

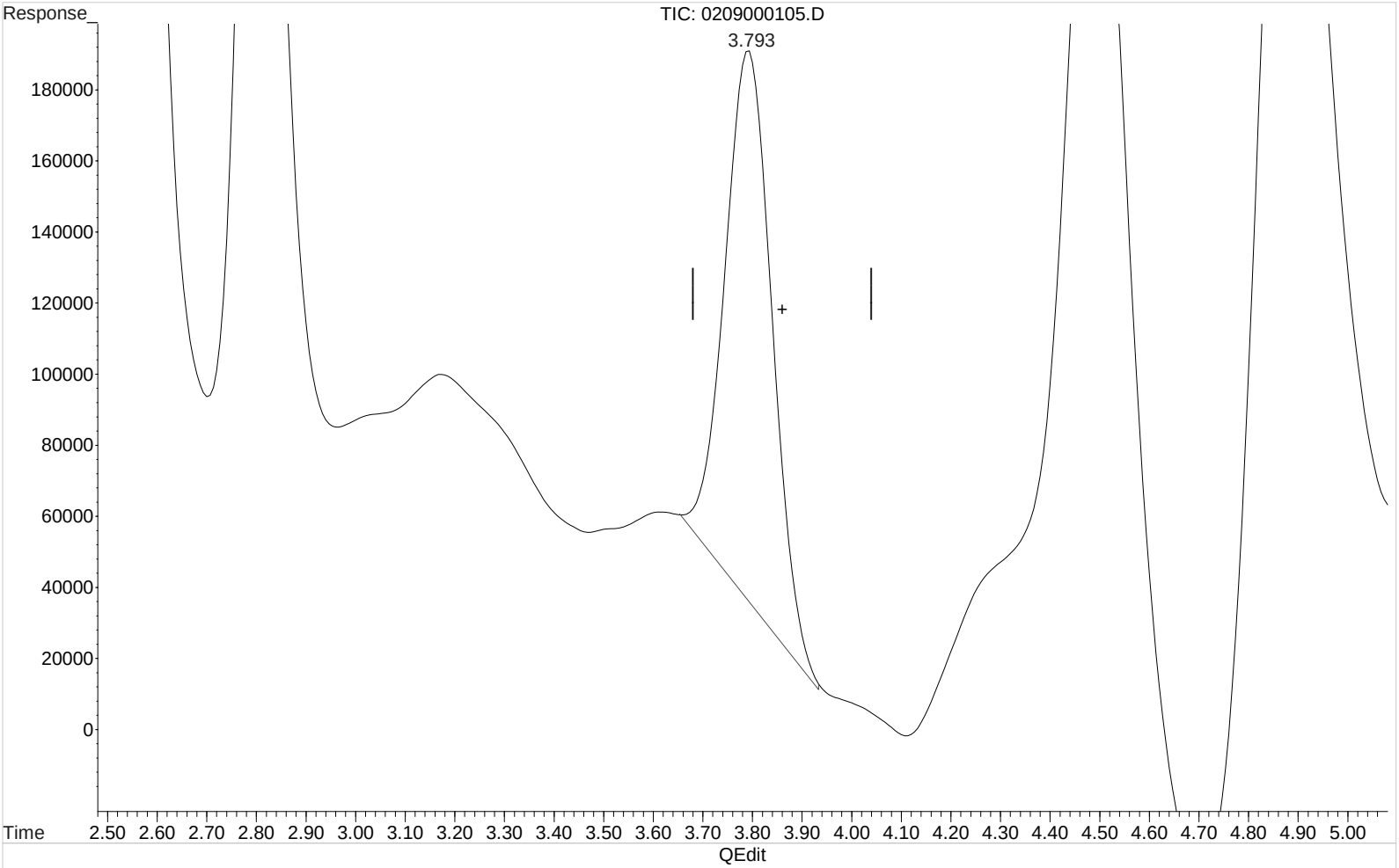
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:25 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.793min 48.804 ug/L m

response 1022712

Manual Integration:

After

BLC

02/10/17

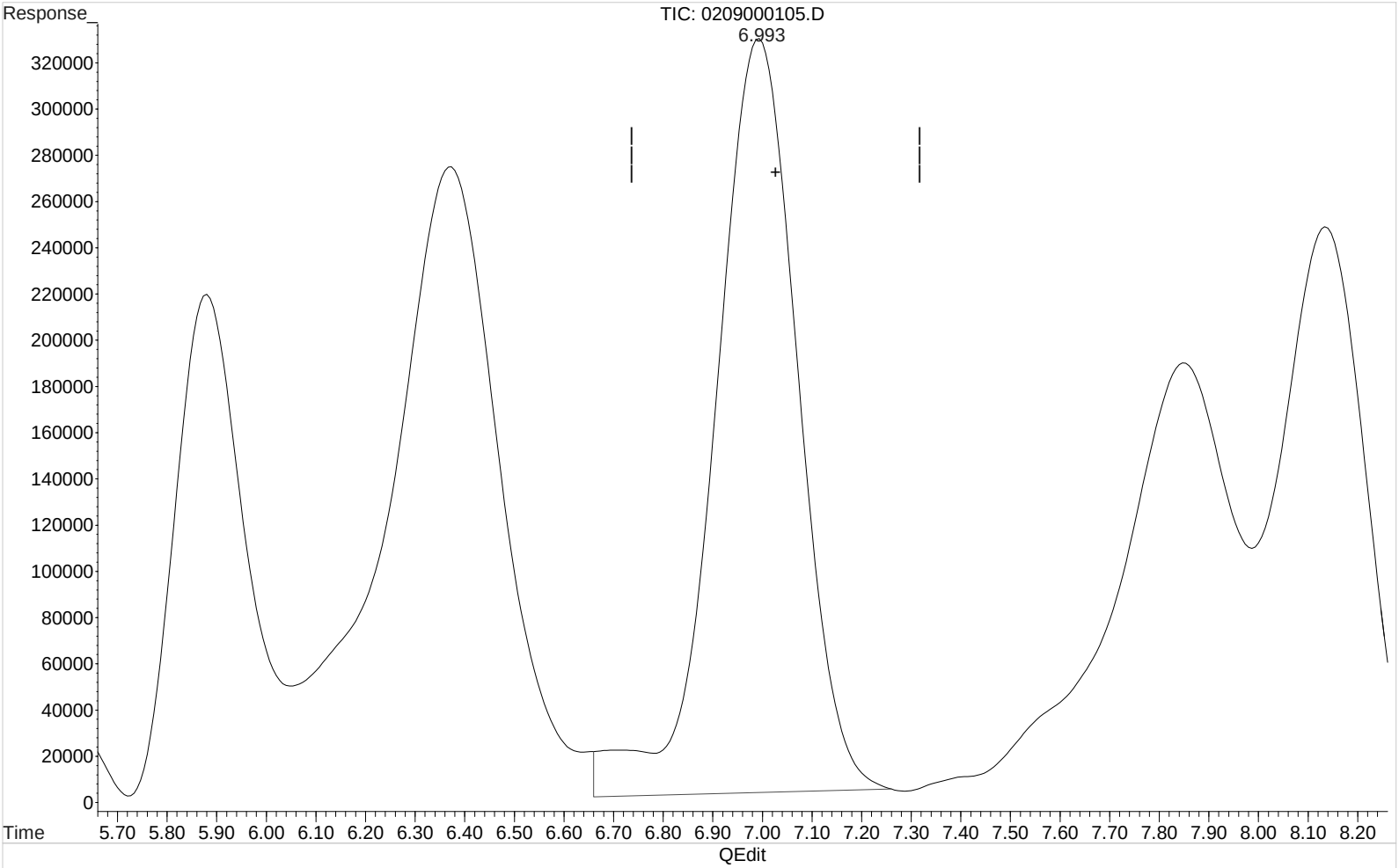
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:25 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.993min 45.943 ug/L

response 3802017

Manual Integration:

Before

02/10/17

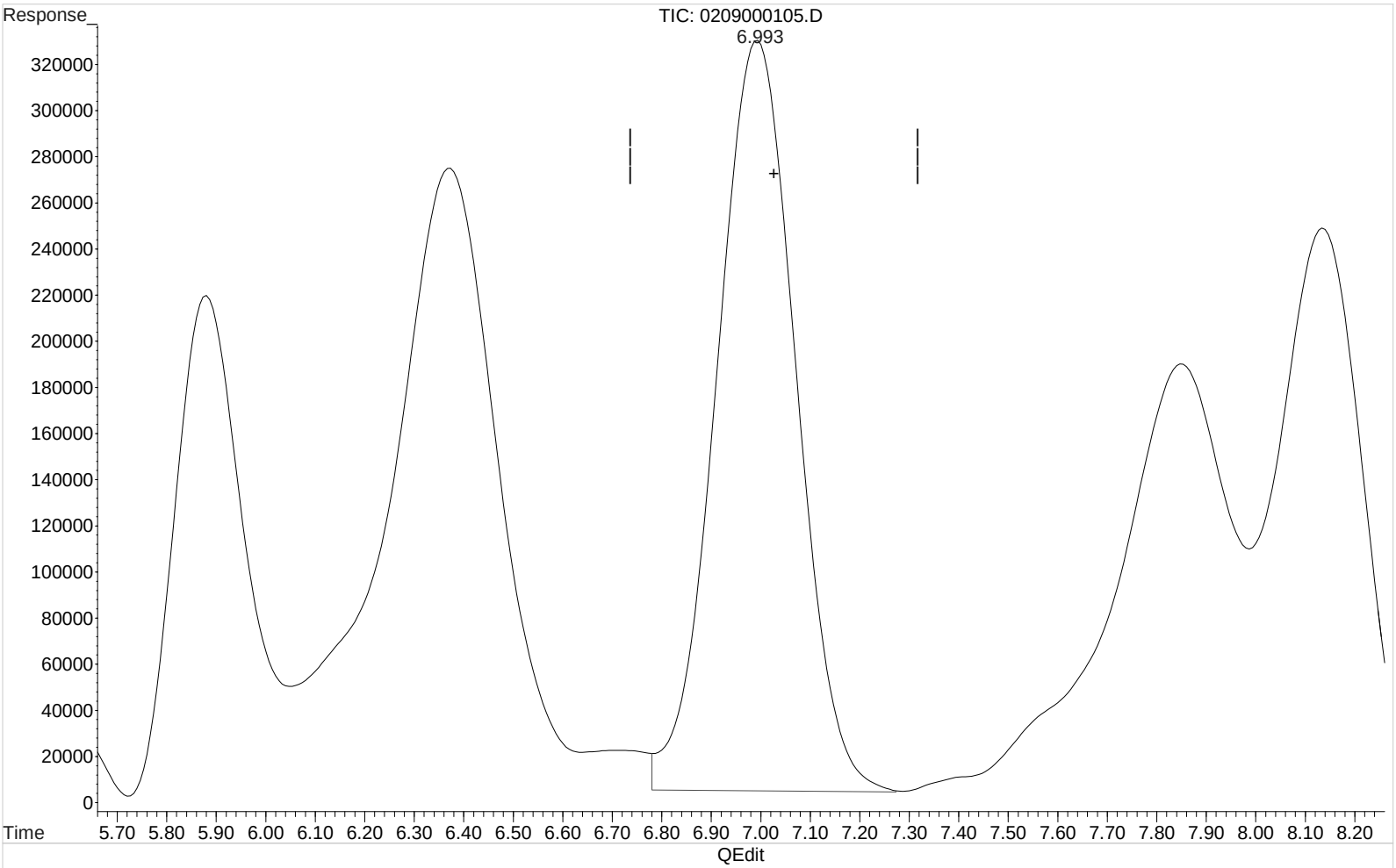
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:25 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.993min 44.021 ug/L m

response 3642903

Manual Integration:

After

BLC

02/10/17

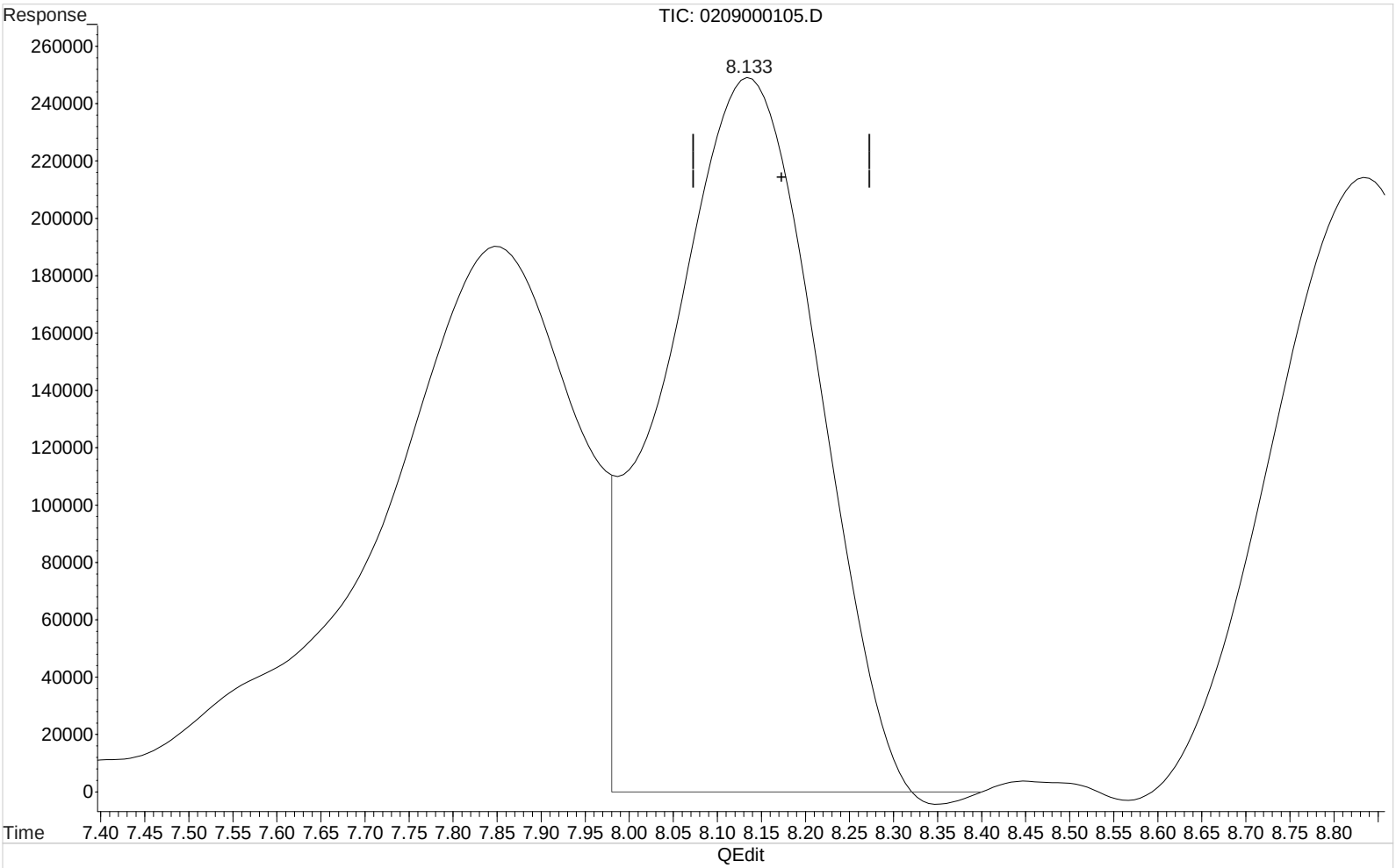
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:25 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.133min 41.867 ug/L

response 2955960

Manual Integration:

Before

02/10/17

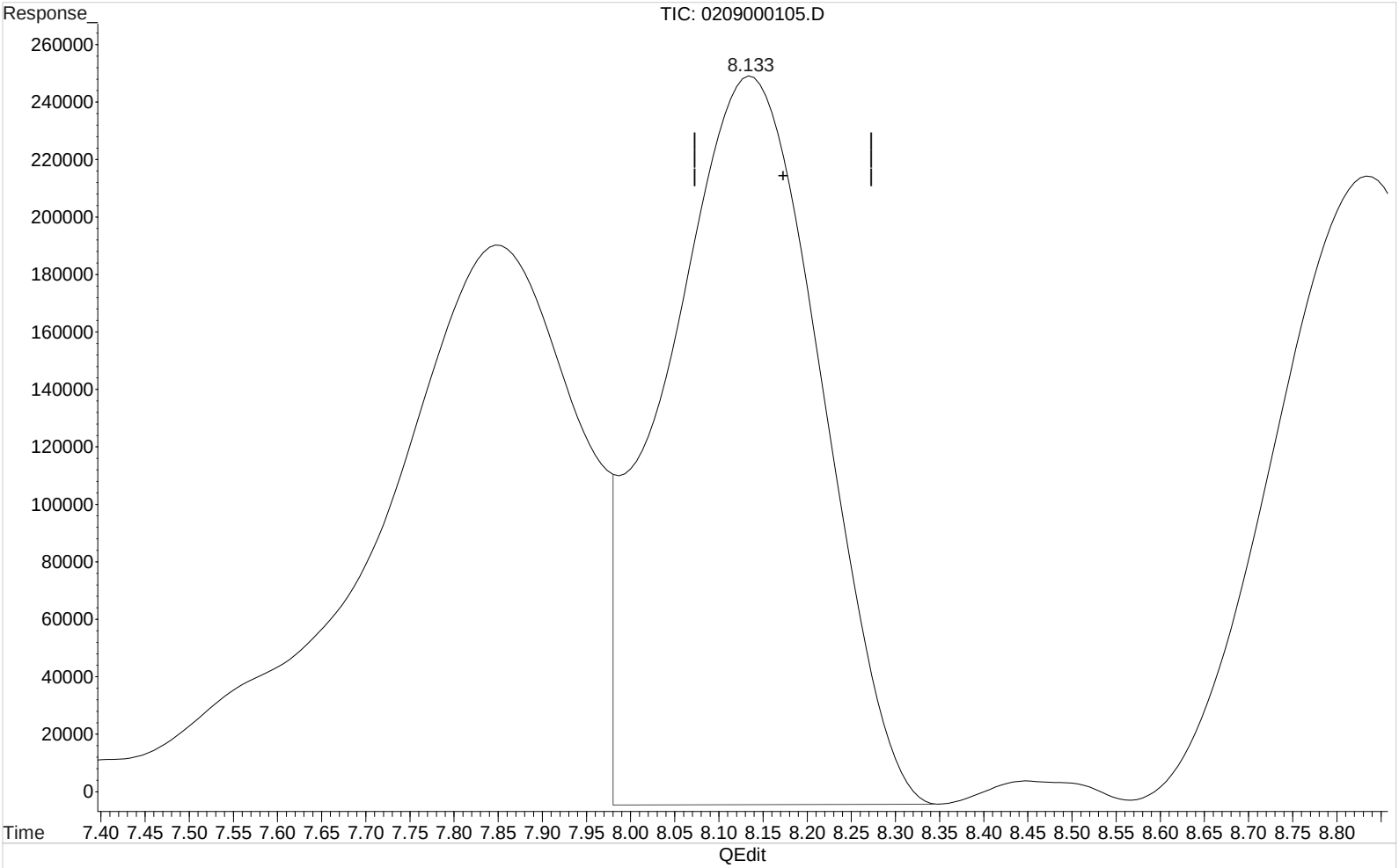
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:25 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.133min 43.366 ug/L m

response 3061814

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:09 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	8.147	7680230	110.160	ug/L	m
Target Compounds						
1) T	Nitroglycerin	3.787	1979030	93.695	ug/L	m
2) T	PETN	6.987	8553205	103.854	ug/L	m

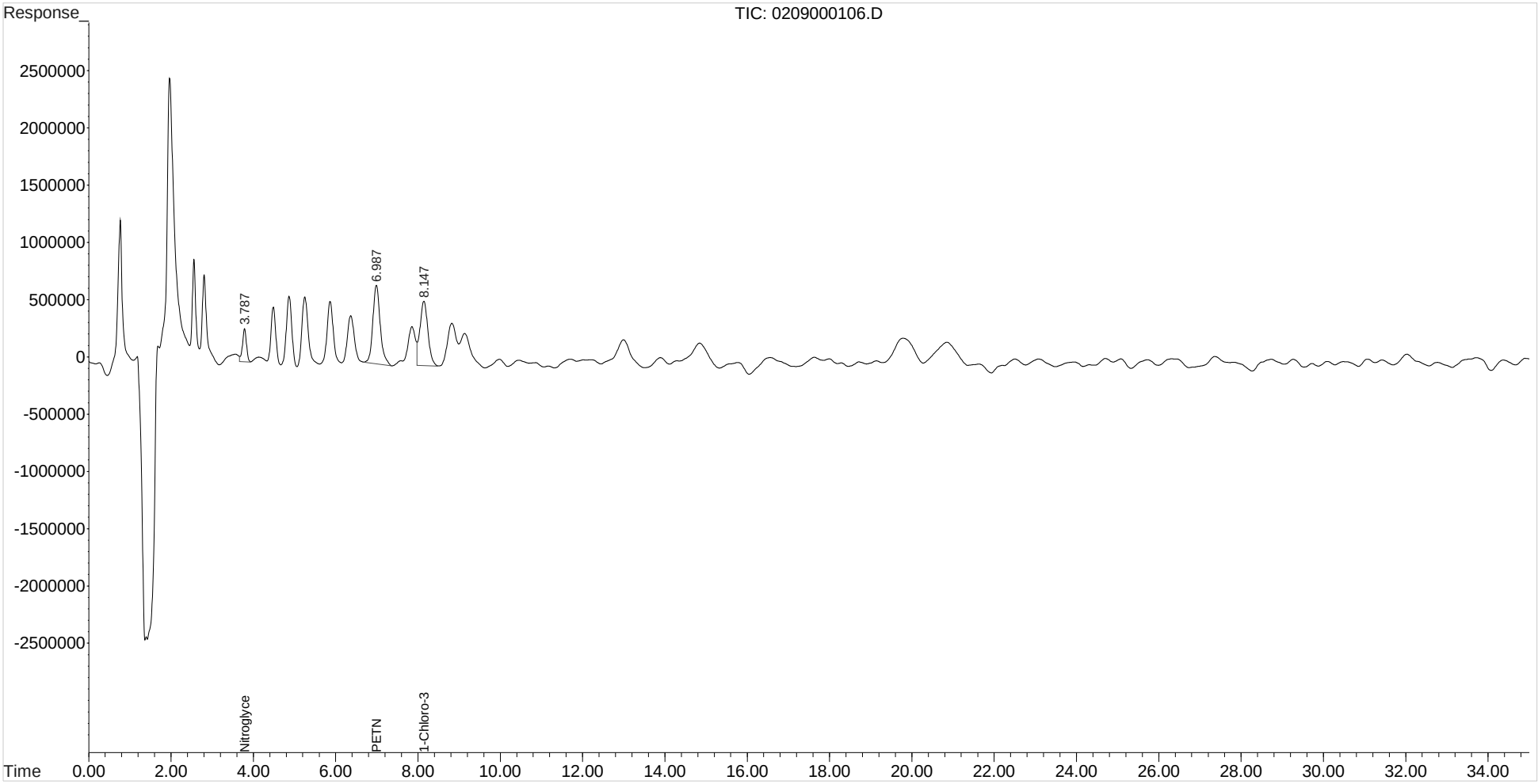
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:09 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

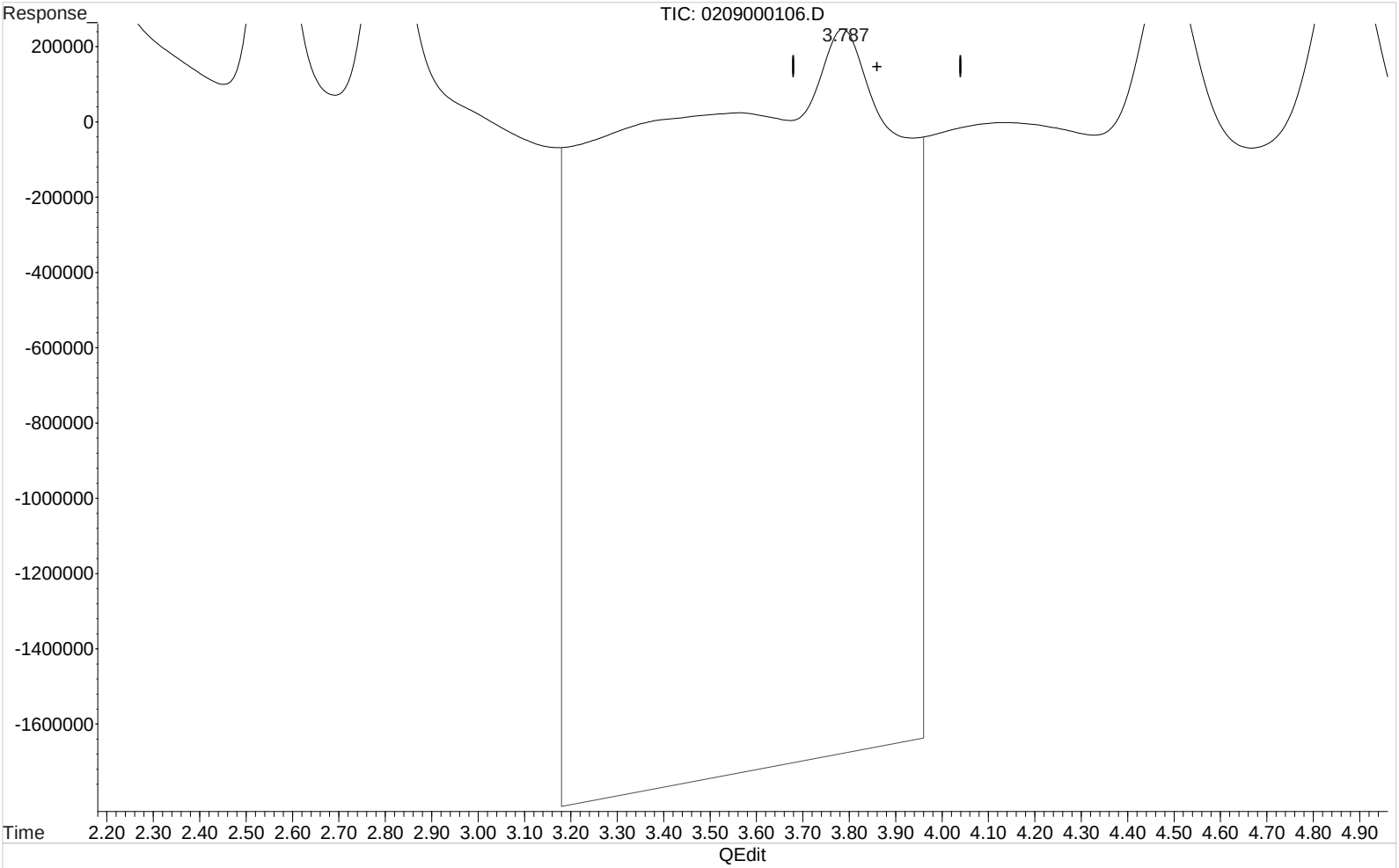


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:30:06 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.787min 3880.314 ug/L

response 81959818

Manual Integration:

Before

02/10/17

(+) = Expected Retention Time

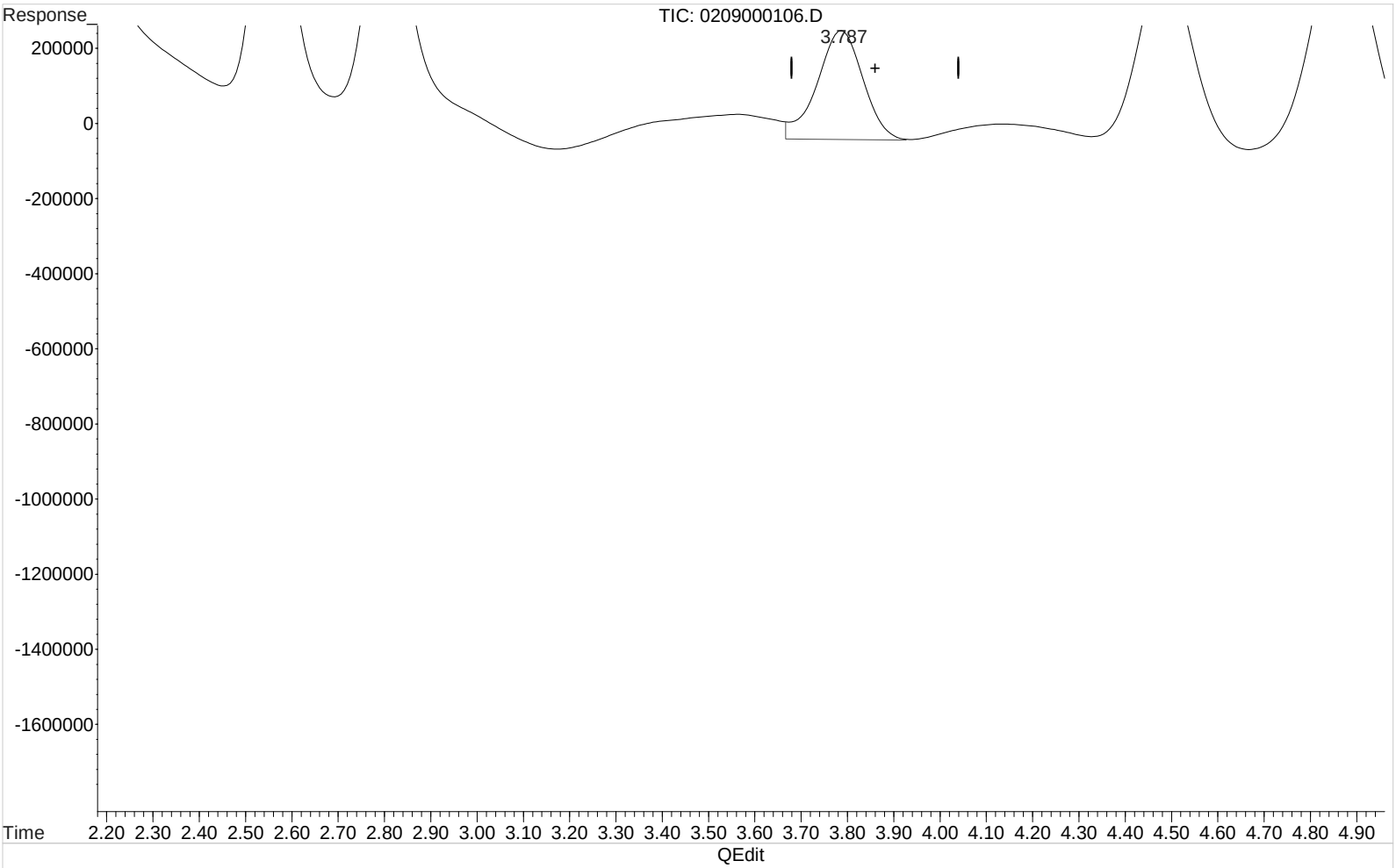
020917_Short_8330B@210.M Fri Feb 10 10:30:10 2017 Page: 1

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:30:06 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.787min 93.695 ug/L m

response 1979030

Manual Integration:

After

BLC

02/10/17

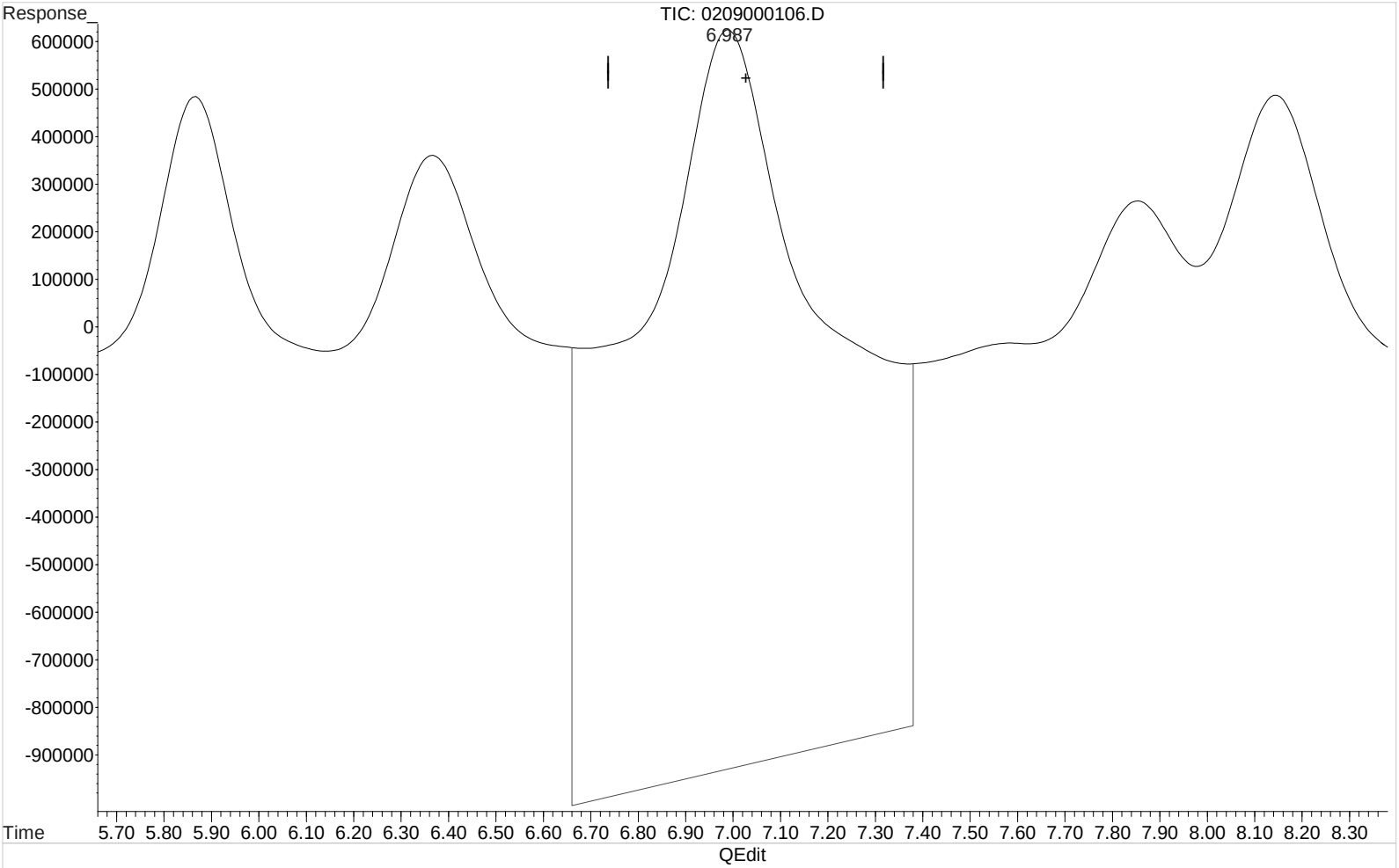
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:30:06 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.987min 555.668 ug/L

response 45763665

Manual Integration:

Before

02/10/17

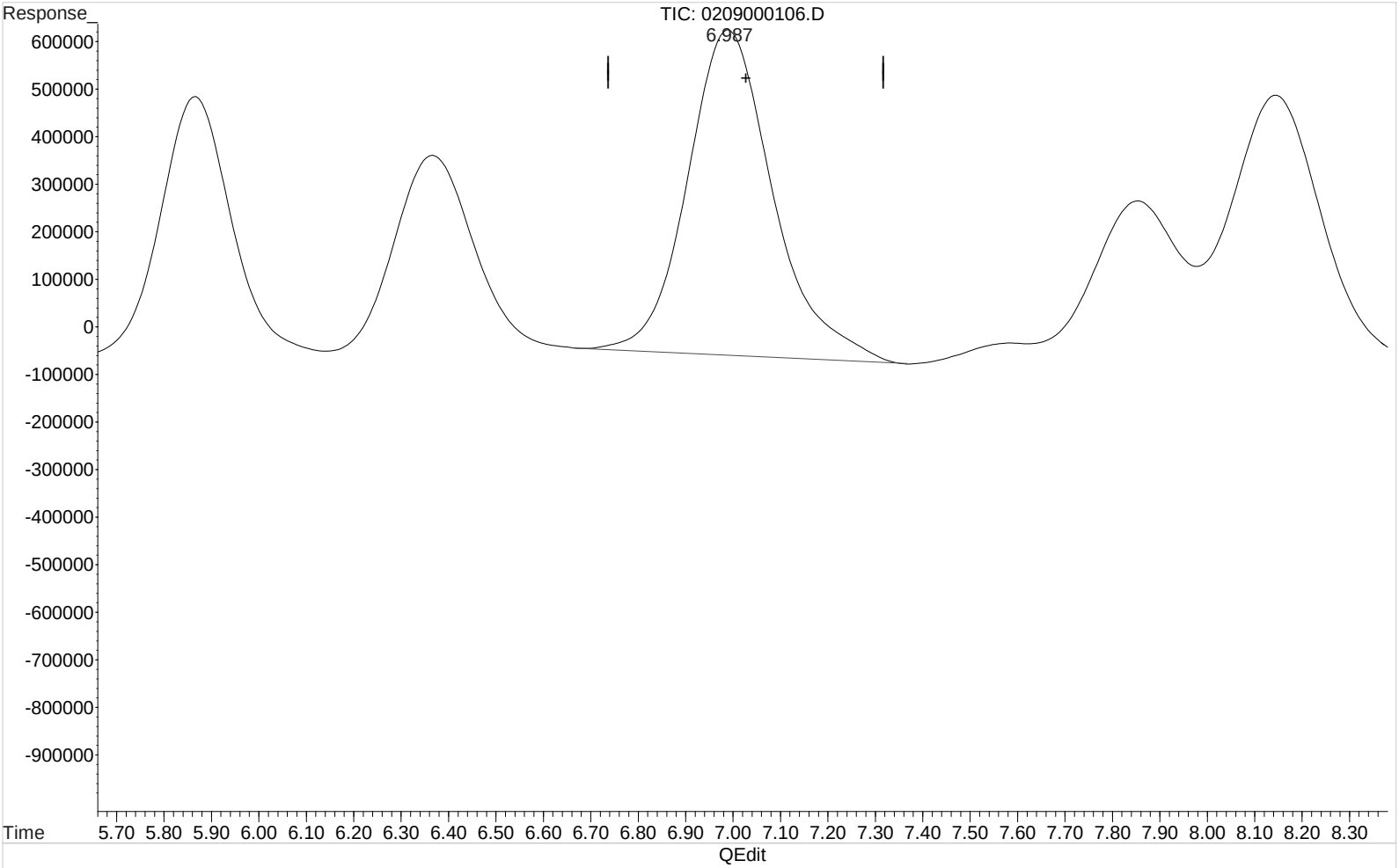
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:30:06 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.987min 103.854 ug/L m

response 8553205

Manual Integration:

After

BLC

02/10/17

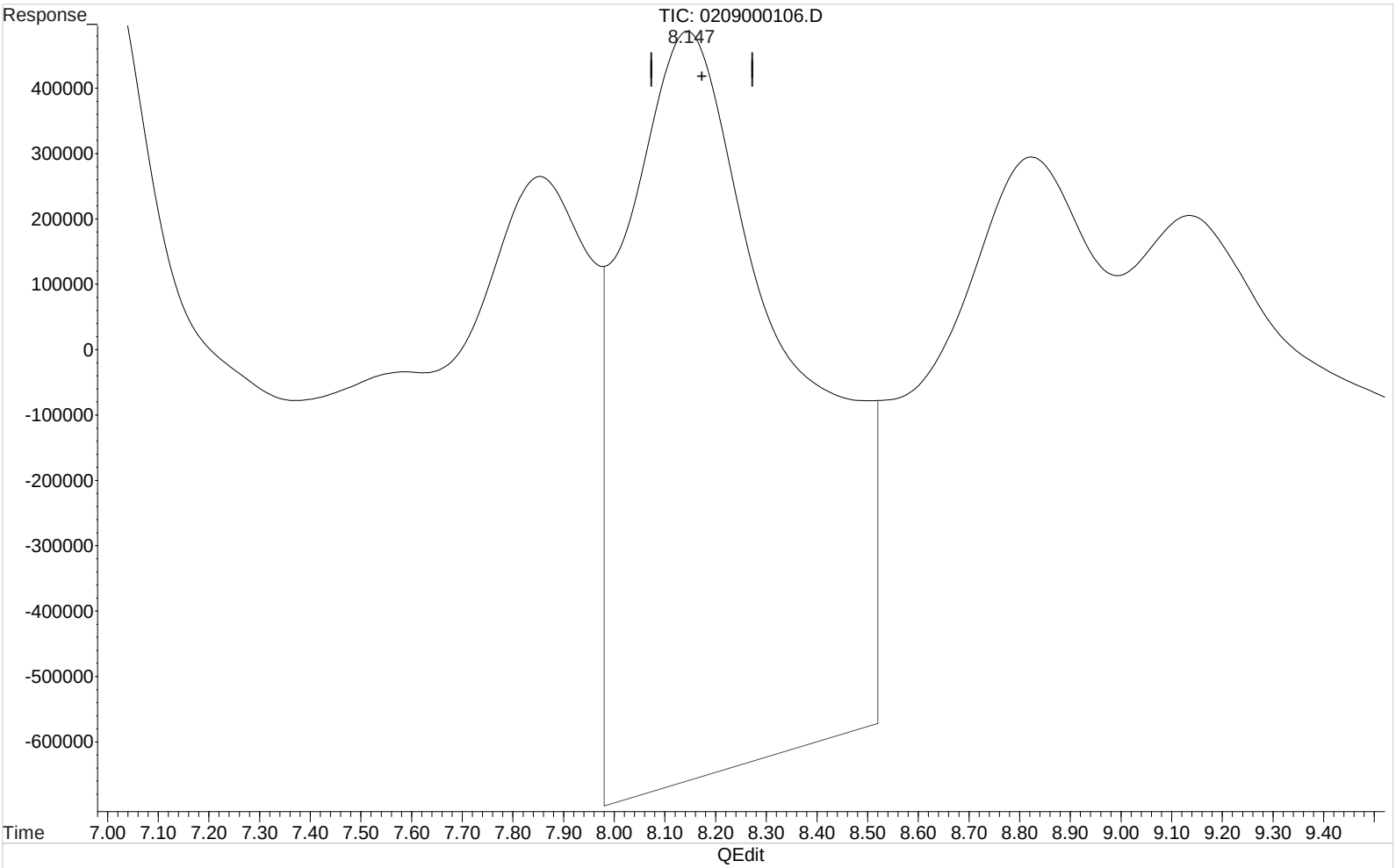
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:30:06 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.147min 368.214 ug/L

response 25671459

Manual Integration:

Before

02/10/17

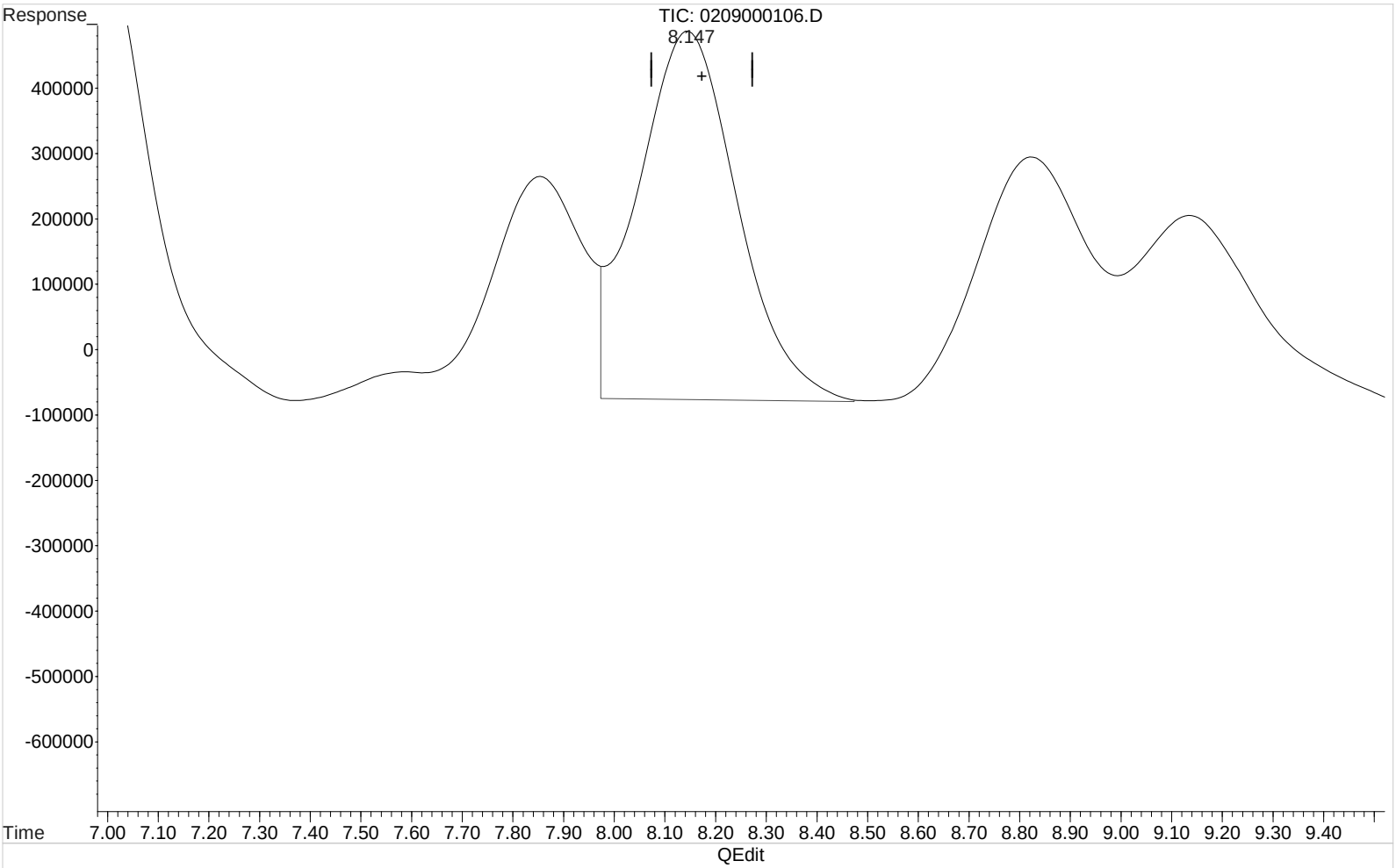
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:30:06 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.147min 110.160 ug/L m

response 7680230

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:29:46 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	8.133	13561422	193.631 ug/L m
Target Compounds				
1) T	Nitroglycerin	3.780	3978902	186.571 ug/L m
2) T	PETN	6.980	17566508	215.684 ug/L m

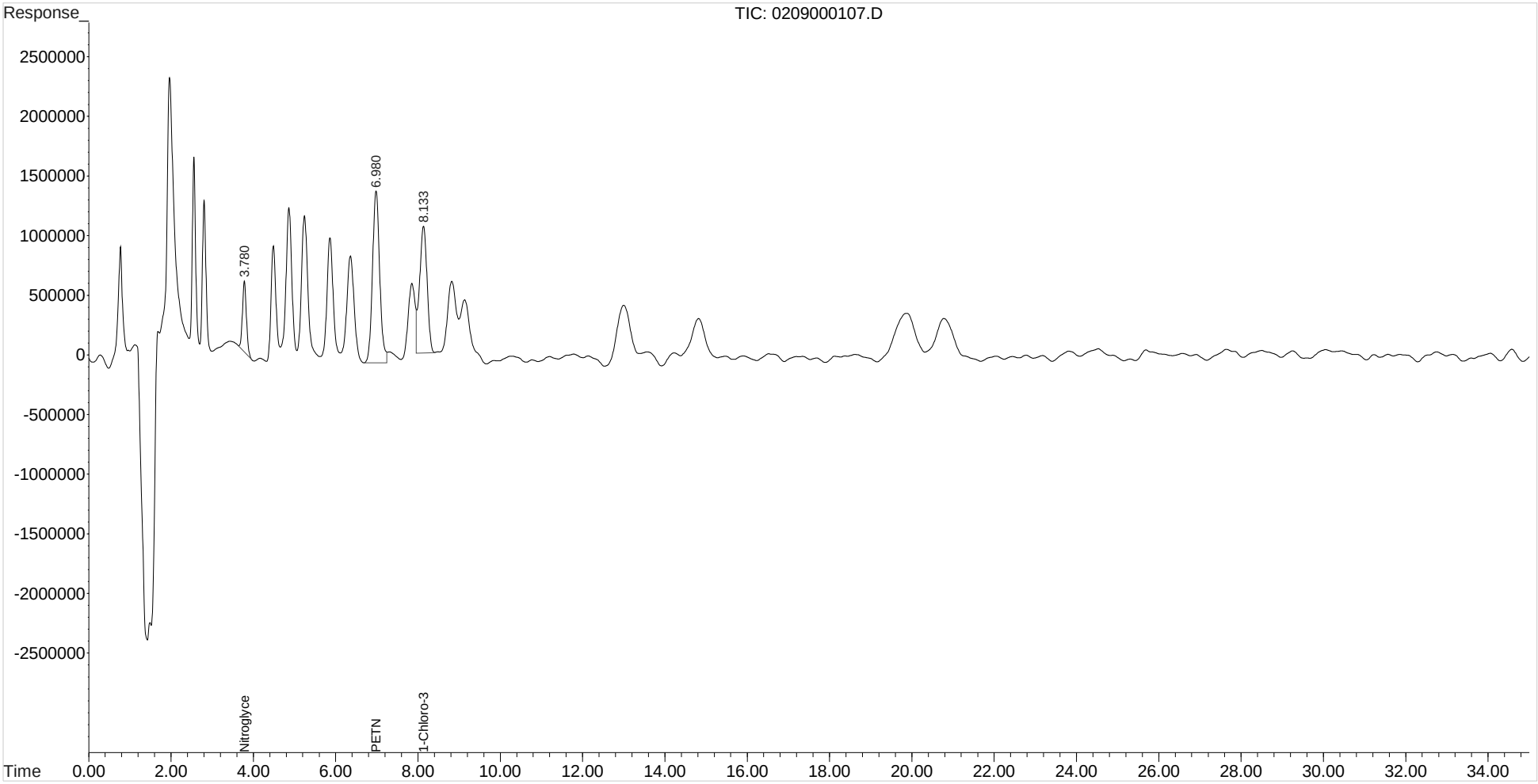
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:29:46 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

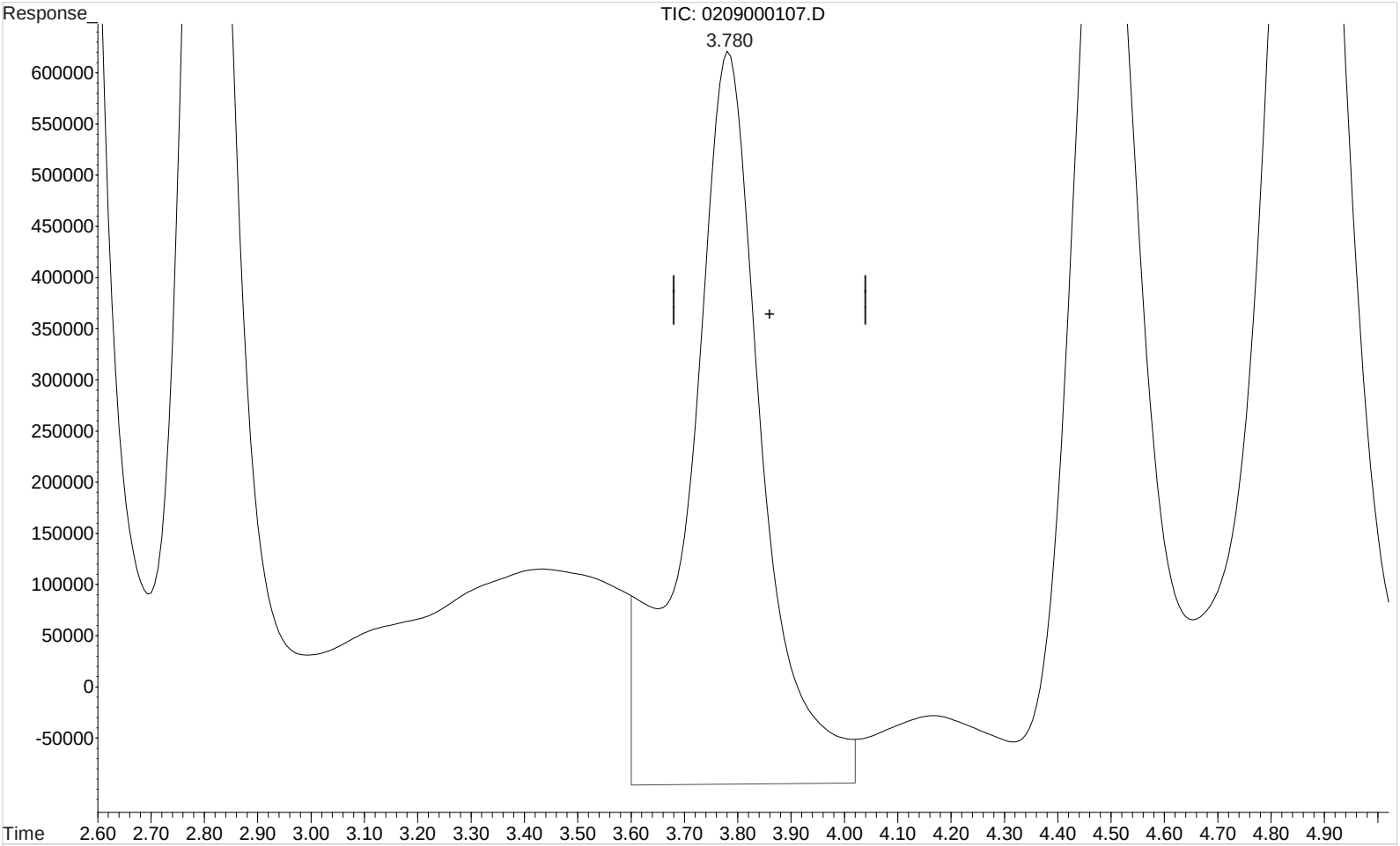


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:42 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.780min 317.059 ug/L

response 6761779

Manual Integration:

Before

02/10/17

(+) = Expected Retention Time

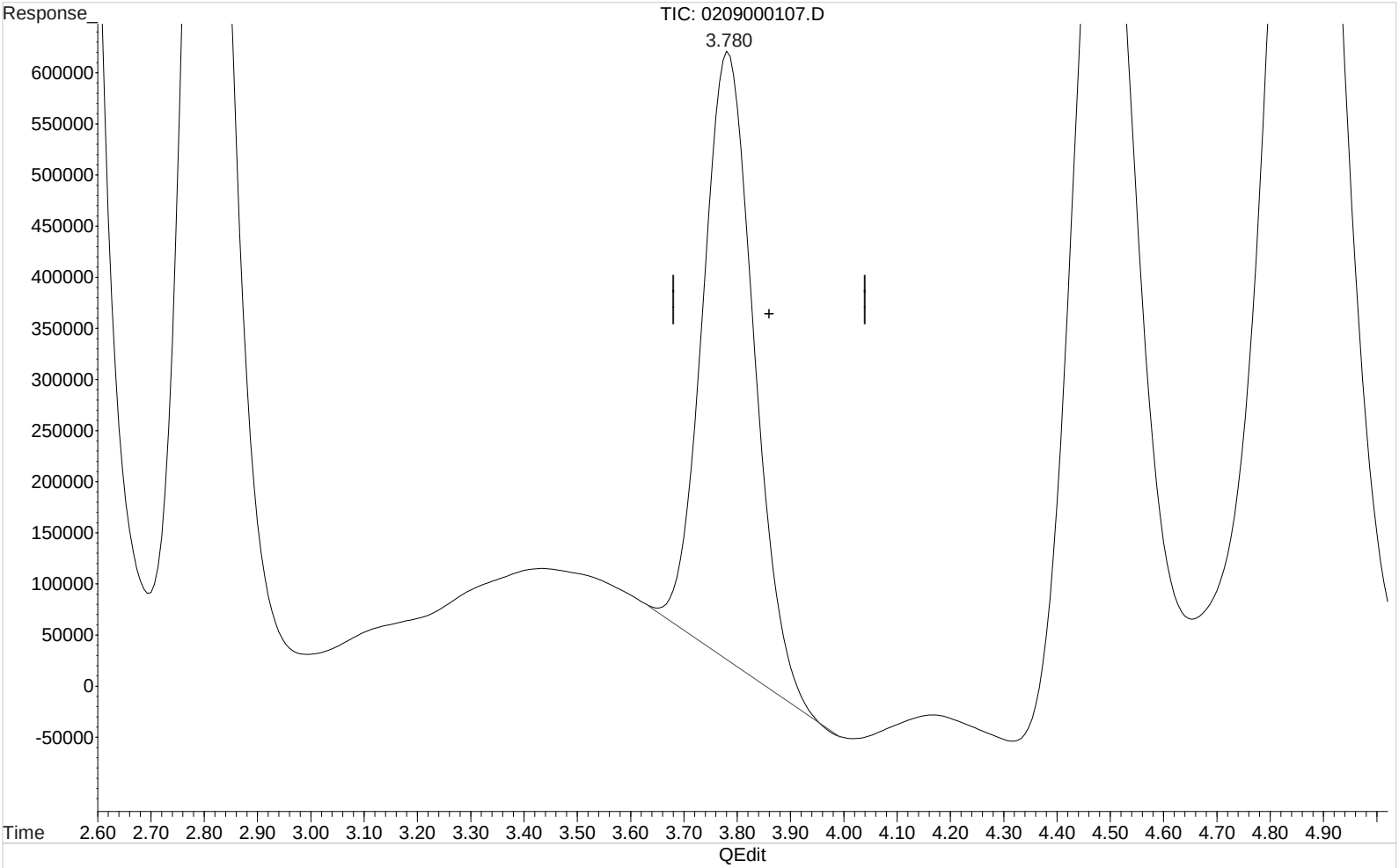
020917_Short_8330B@210.M Fri Feb 10 10:28:45 2017 Page: 1

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:42 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.780min 186.571 ug/L m

response 3978902

Manual Integration:

After

BLC

02/10/17

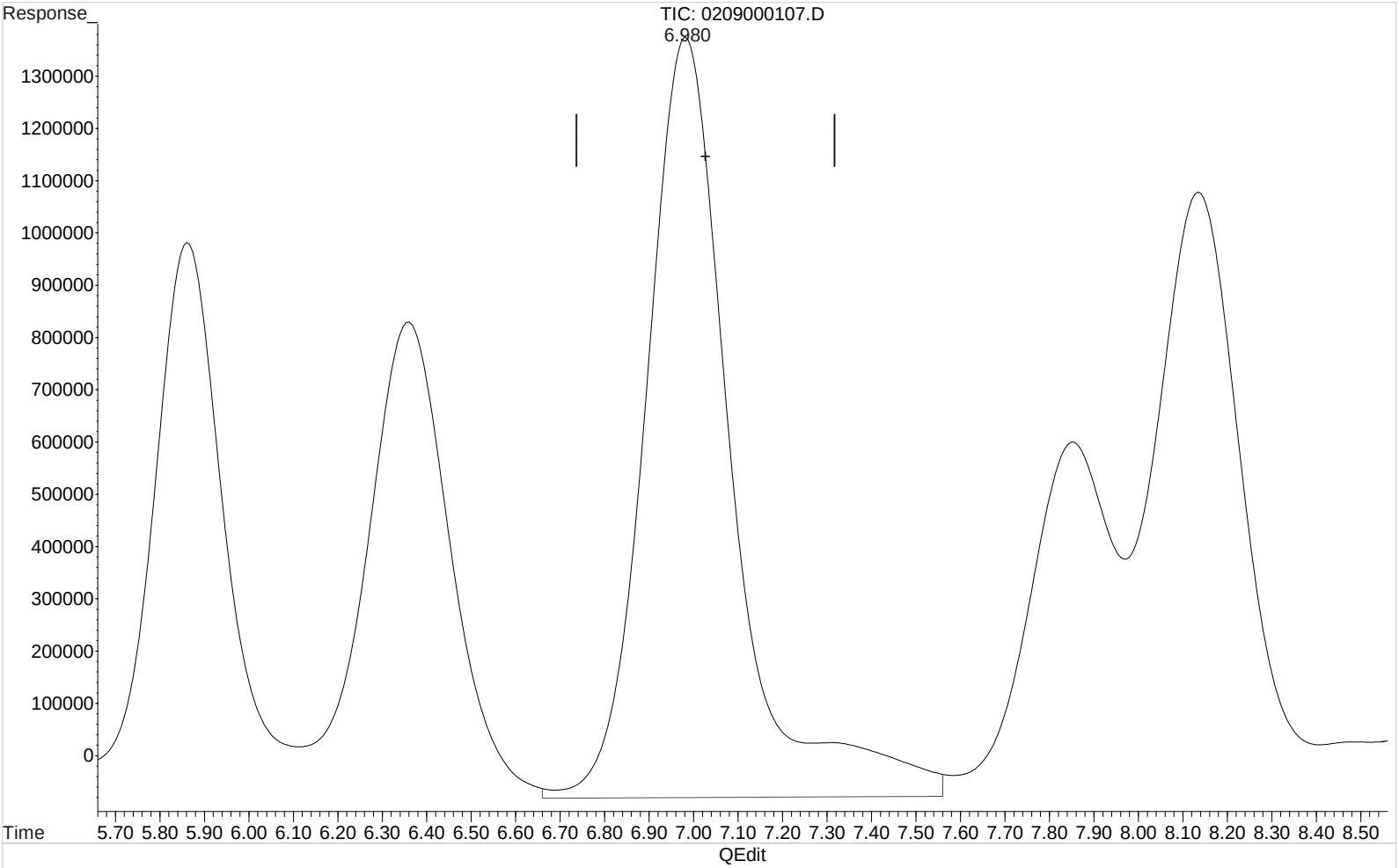
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:42 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.980min 240.910 ug/L

response 19621034

Manual Integration:

Before

02/10/17

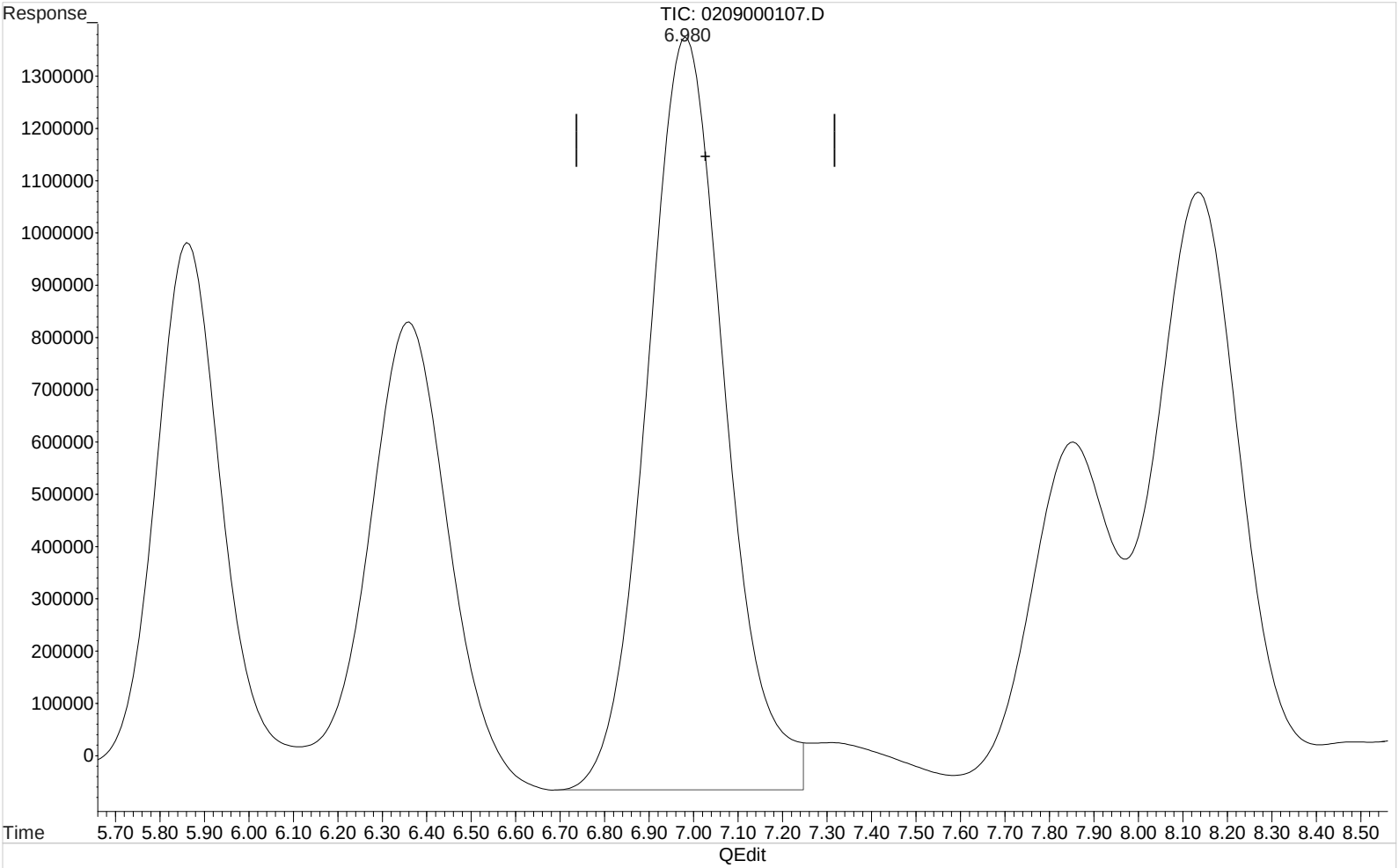
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:42 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.980min 215.684 ug/L m

response 17566508

Manual Integration:

After

BLC

02/10/17

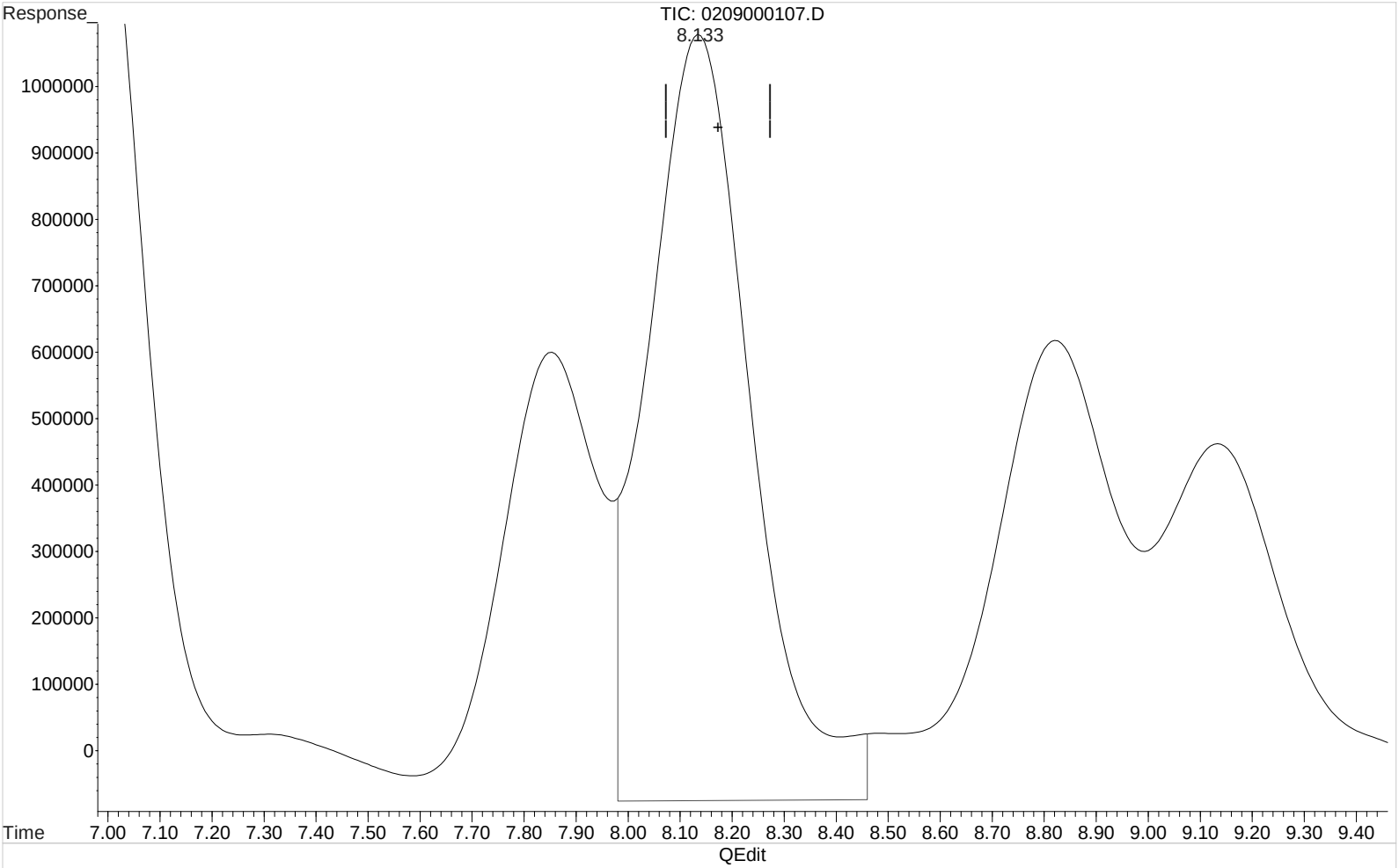
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:42 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

8.133min 225.281 ug/L

response 15778076

Manual Integration:

Before

02/10/17

(+) = Expected Retention Time

(b) (6)

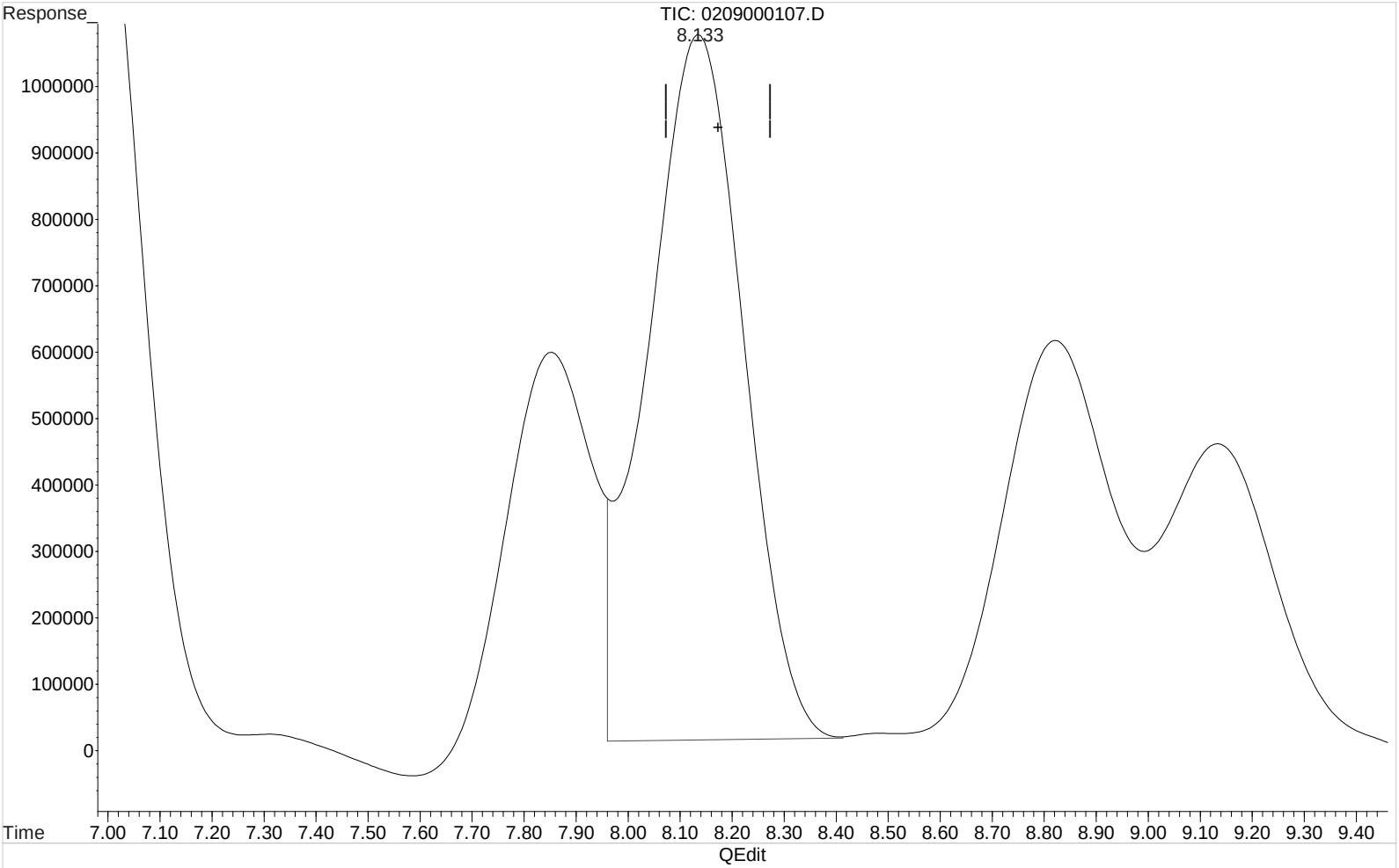
/13/17

/17/17

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:42 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.133min 193.631 ug/L m

response 13561422

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000108.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:14 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:27:33 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	8.153	35971989	516.422 ug/L
Target Compounds				
1) T	Nitroglycerin	3.800	11272556	534.680 ug/L m
2) T	PETN	6.993	42145946	521.117 ug/L m

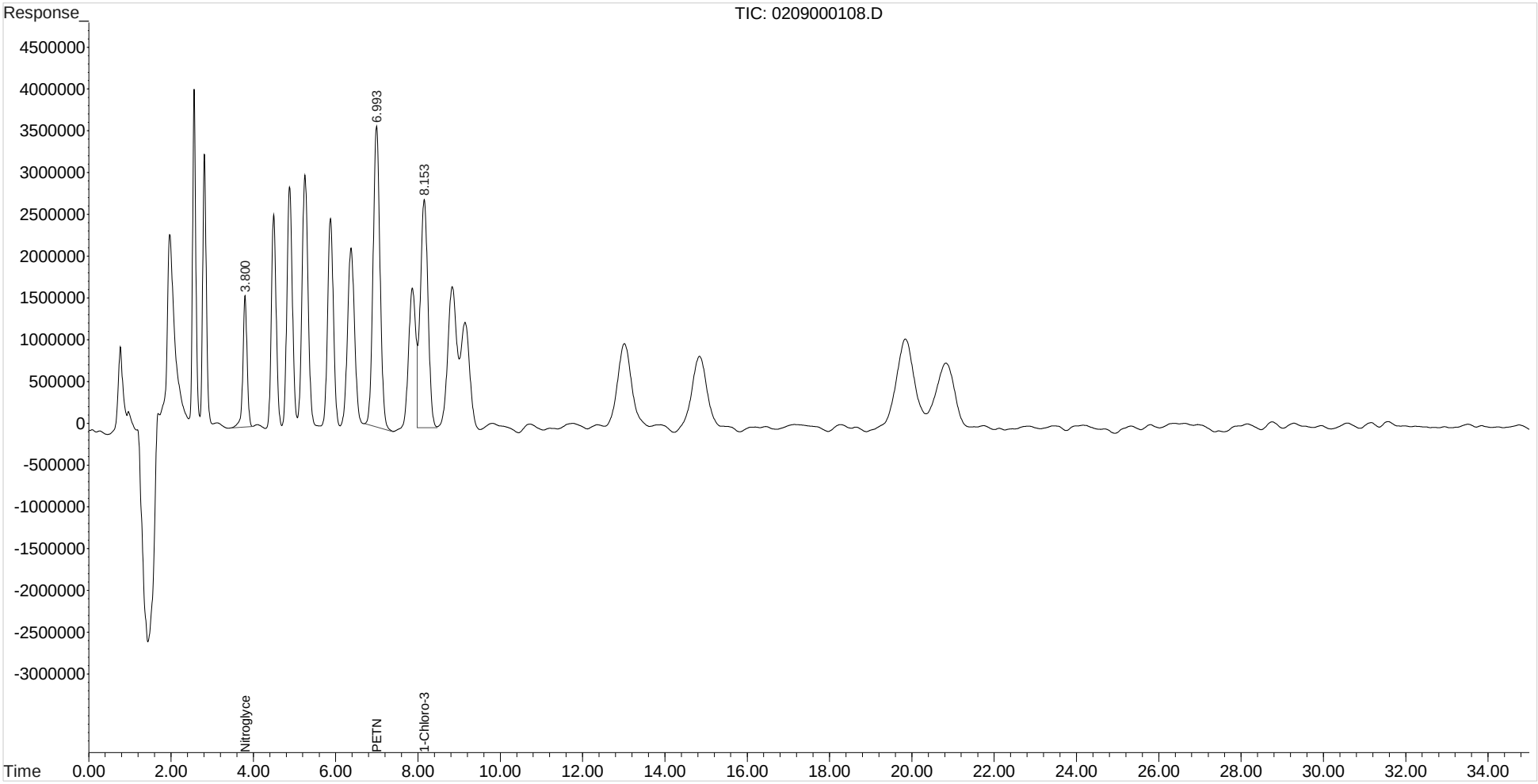
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000108.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:14 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:27:33 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

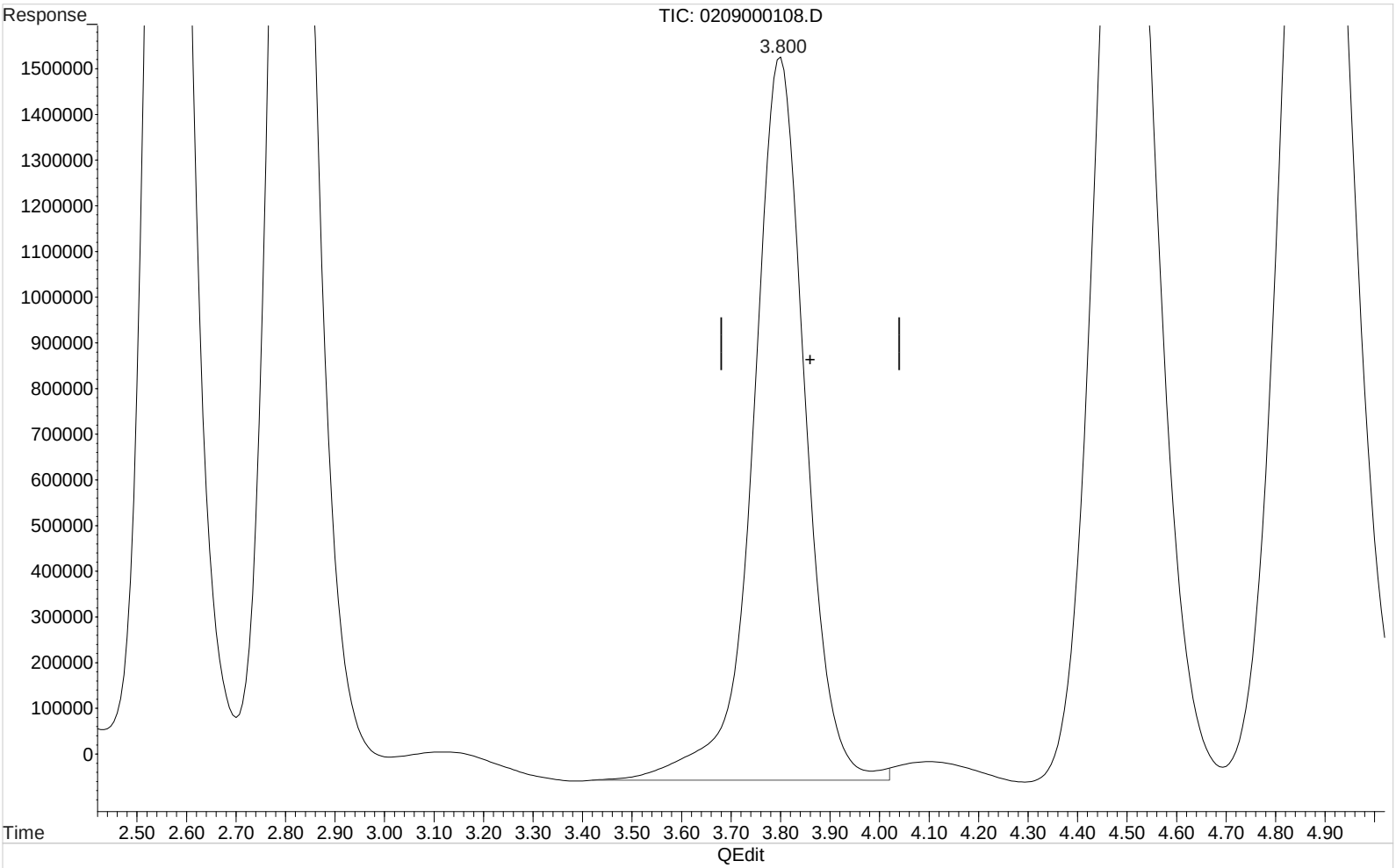


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000108.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:43 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:27:33 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.800min 552.022 ug/L

response 11638168

Manual Integration:

Before

02/10/17

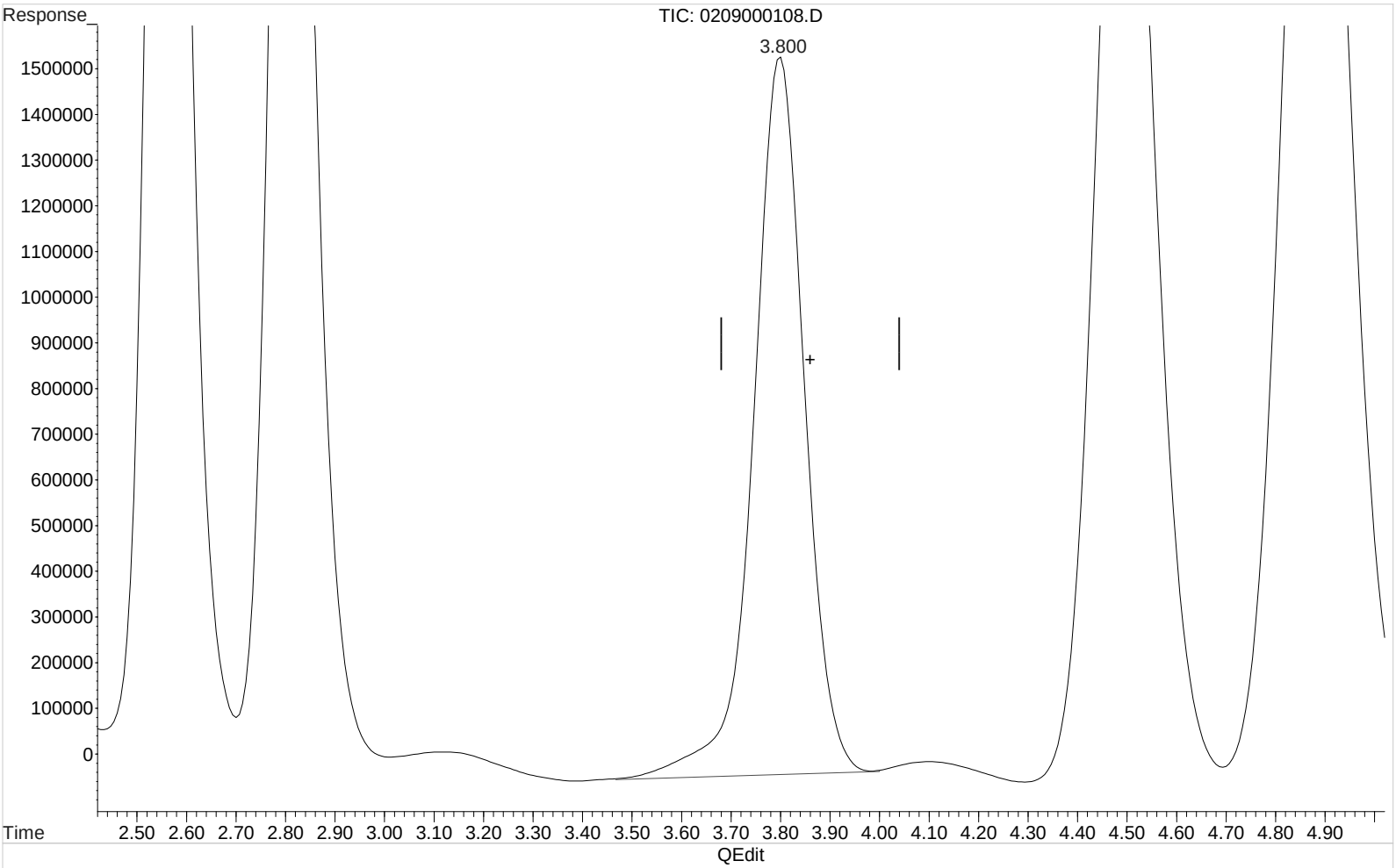
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000108.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:43 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:27:33 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.800min 534.680 ug/L m

response 11272556

Manual Integration:

After

BLC

02/10/17

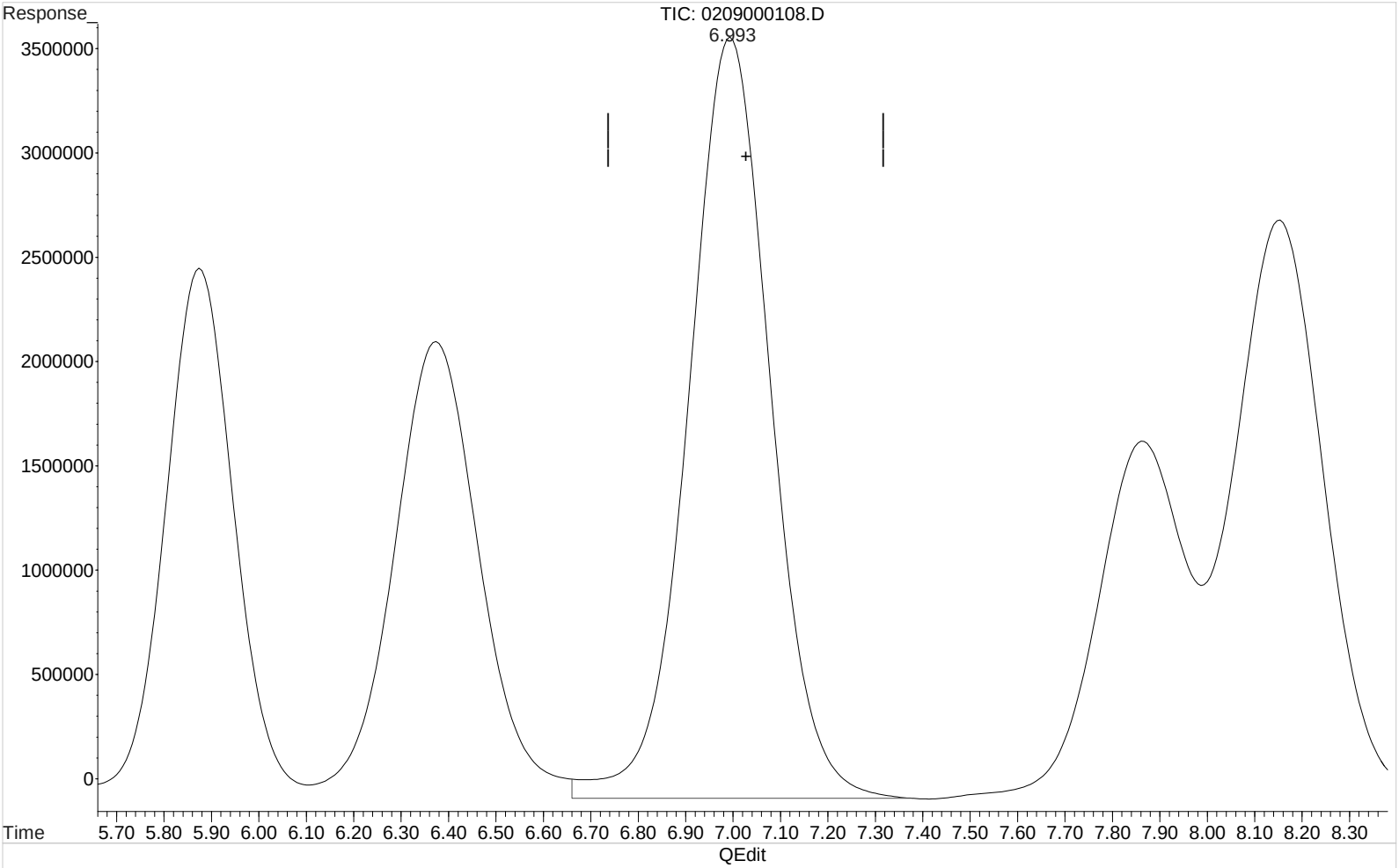
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000108.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:43 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:27:33 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.993min 544.802 ug/L

response 44061458

Manual Integration:

Before

02/10/17

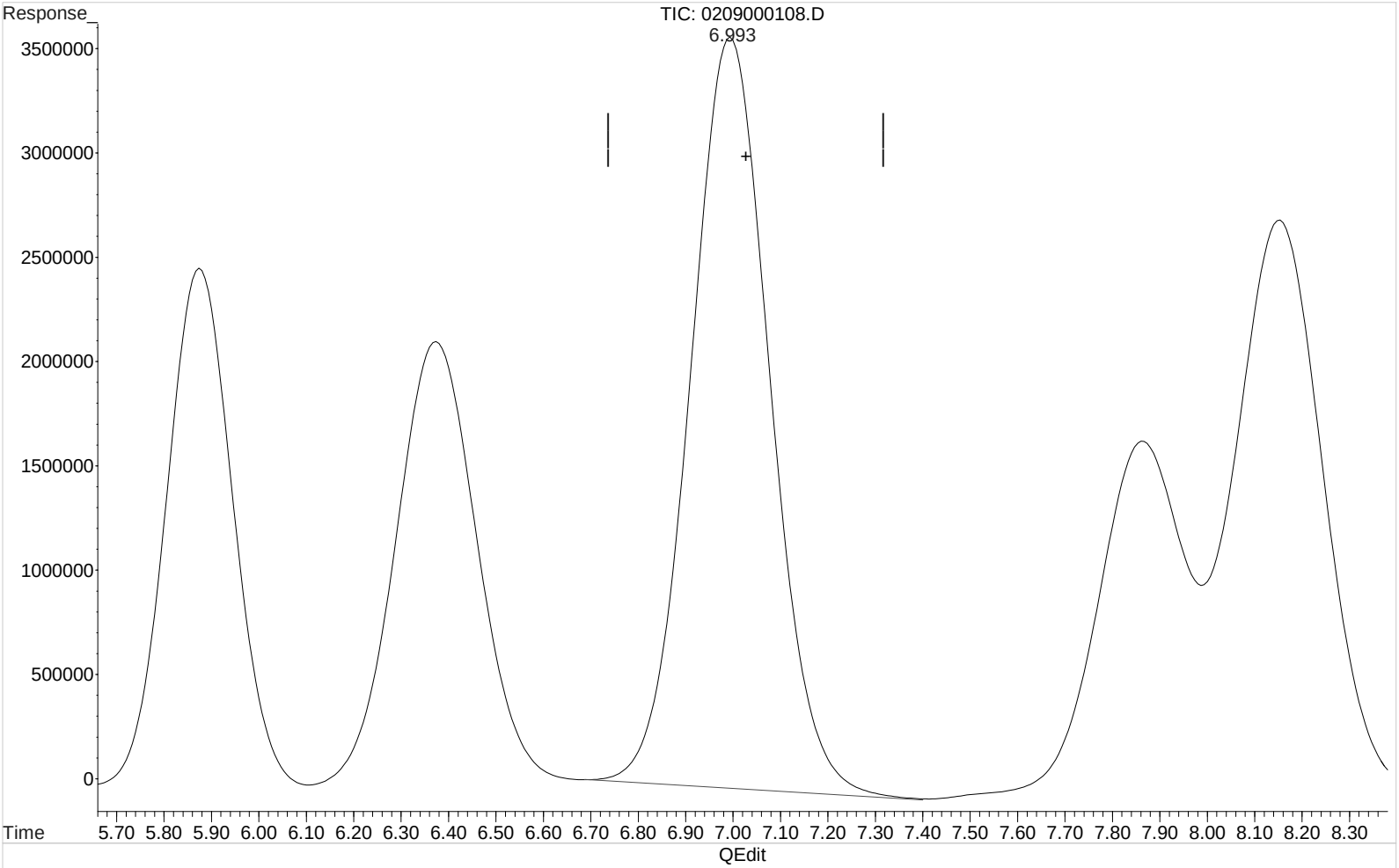
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000108.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:43 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:27:33 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.993min 521.117 ug/L m

response 42145946

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

[redacted] 2/13/17
2/17/17

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:23 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:26:45 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
3) S	1-Chloro-3-Nitrobenzene	8.140	69921036	1004.758	ug/L	
	Target Compounds					
1) T	Nitroglycerin	3.793	21356542	1016.282	ug/L	m
2) T	PETN	6.987	82490148	1025.070	ug/L	m

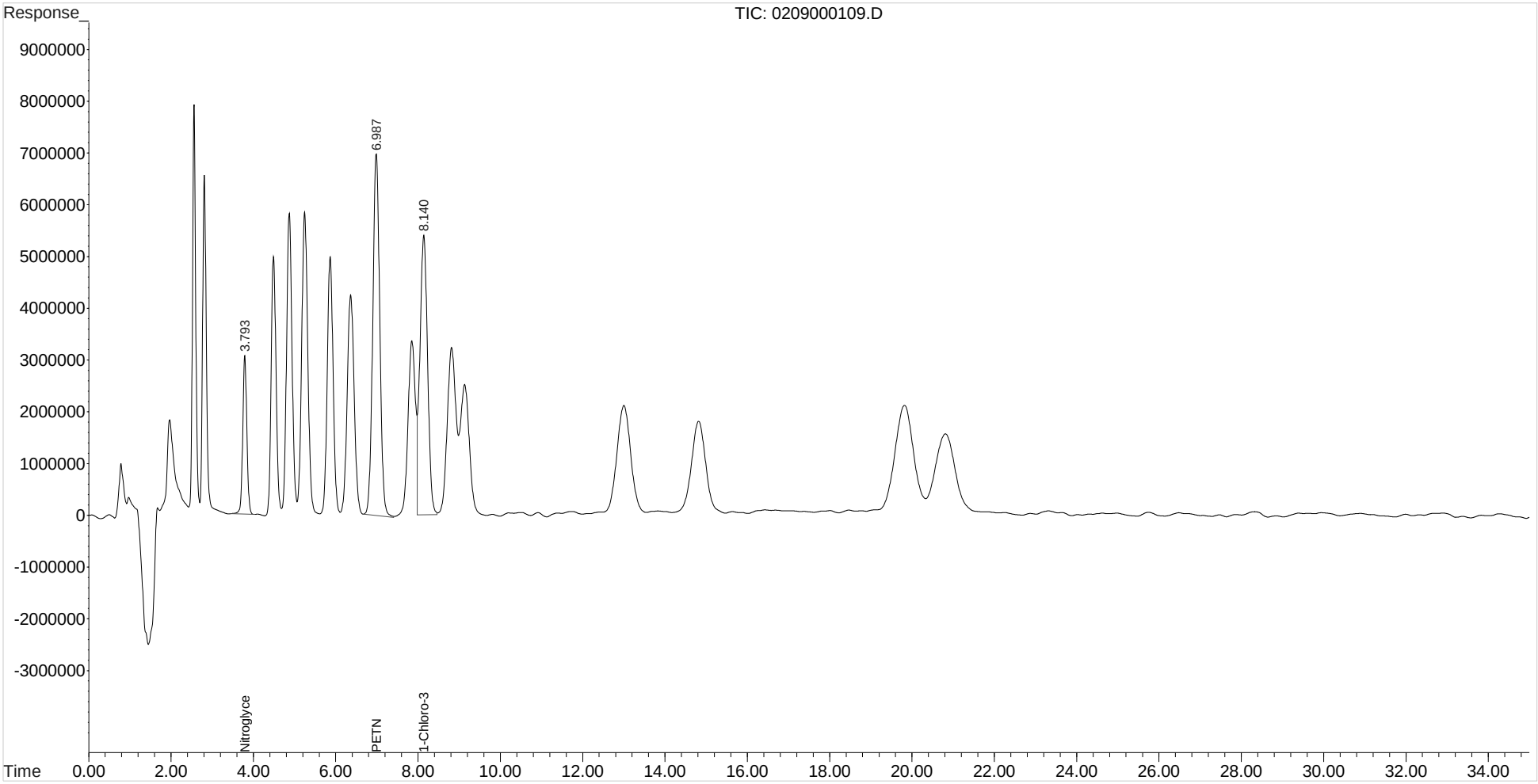
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:23 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:26:45 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

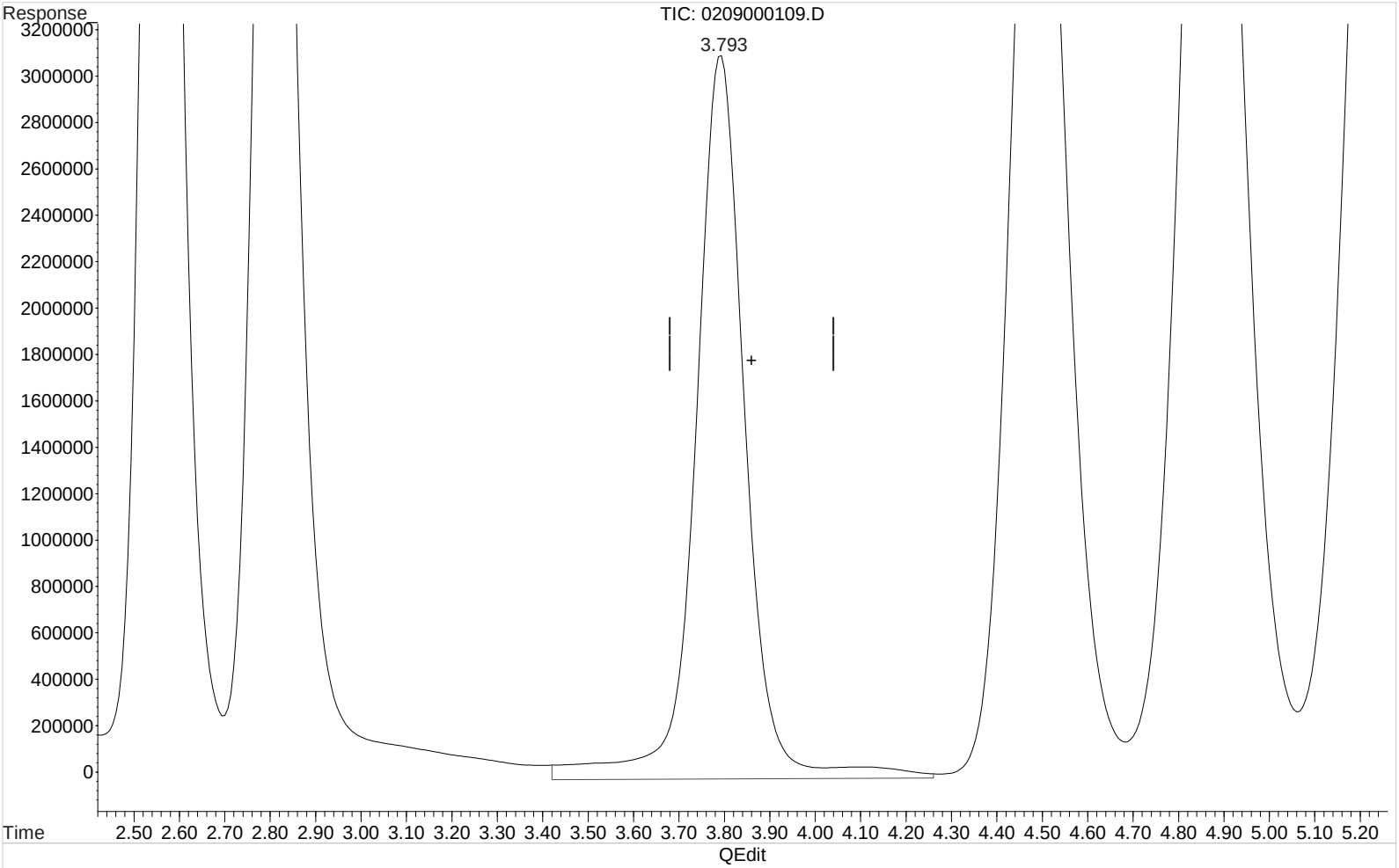


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:01 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:26:45 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.793min 1137.163 ug/L

response 23896782

Manual Integration:

Before

02/10/17

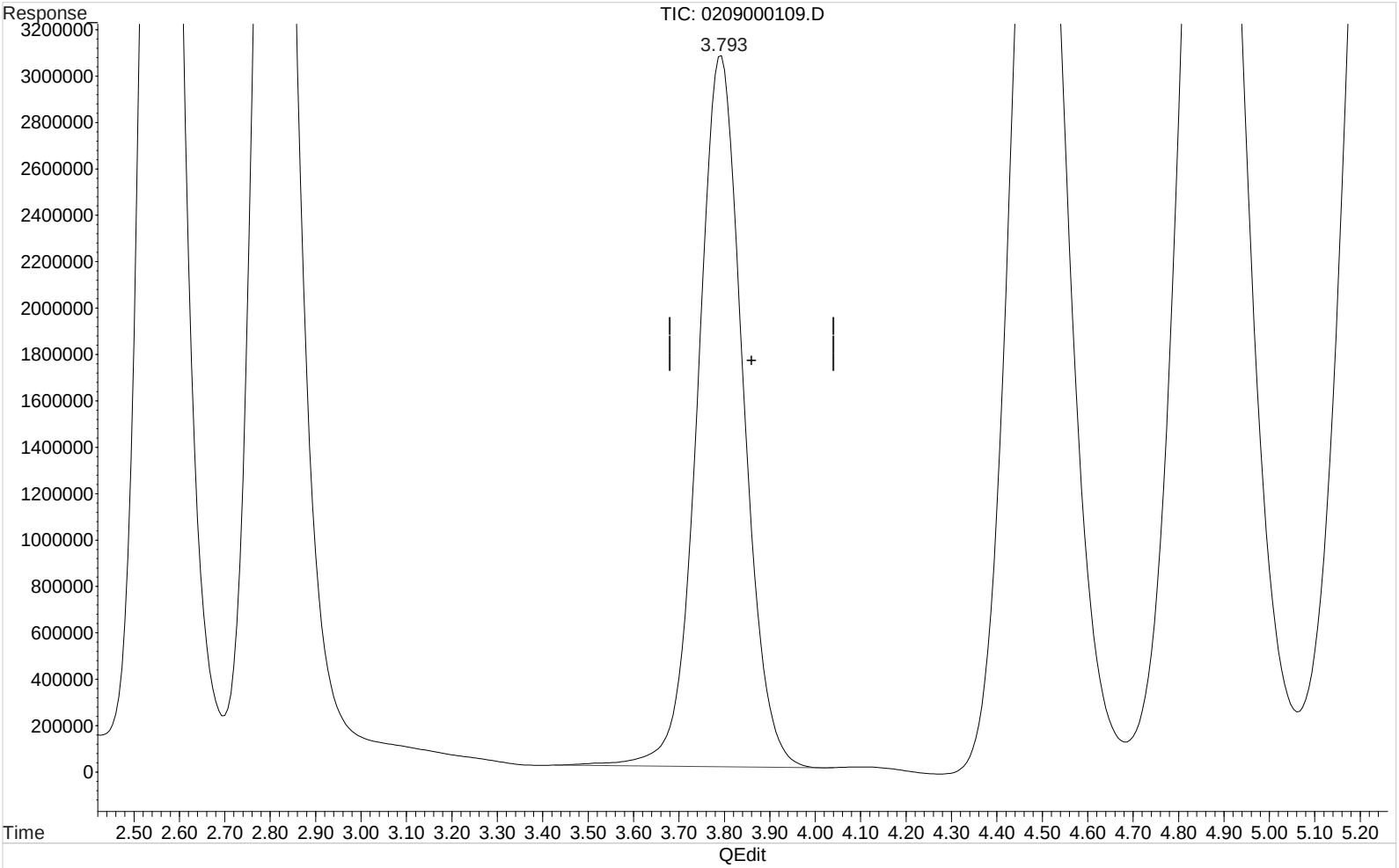
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:01 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:26:45 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.793min 1016.282 ug/L m

response 21356542

Manual Integration:

After

BLC

02/10/17

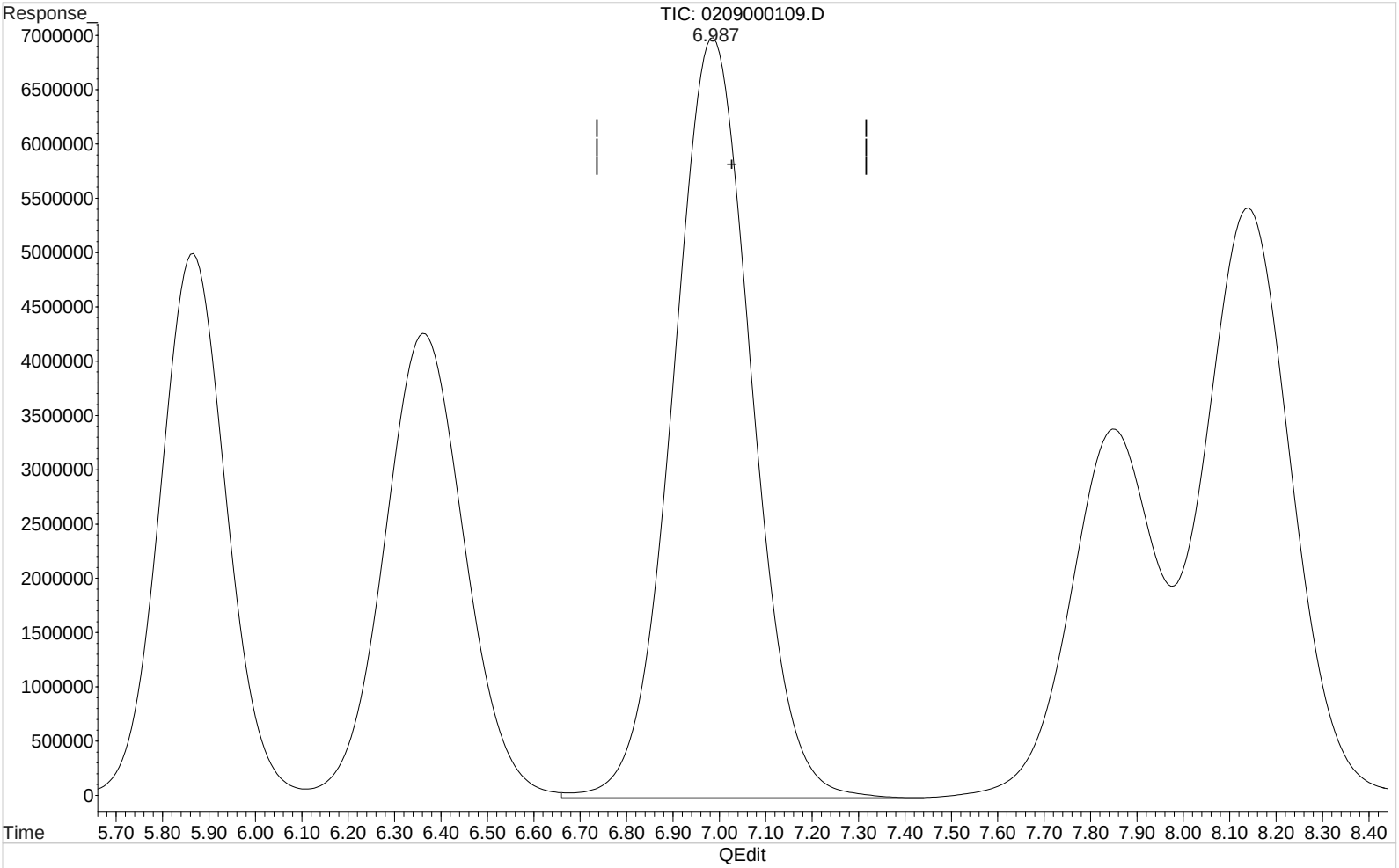
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:01 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:26:45 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.987min 1031.524 ug/L

response 83009500

Manual Integration:

Before

02/10/17

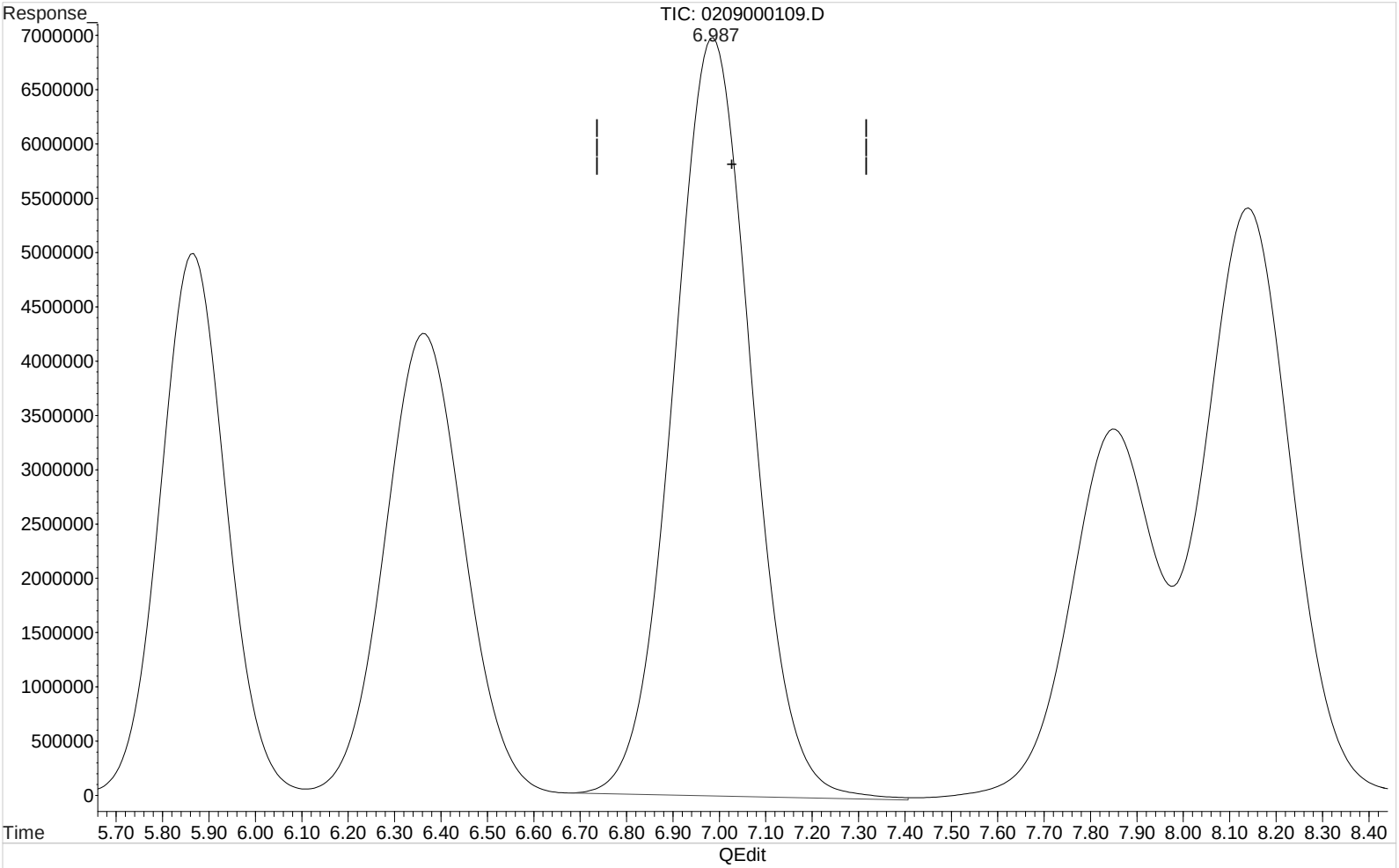
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:01 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:26:45 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.987min 1025.070 ug/L m

response 82490148

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:26:26 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	8.140	139414192	2004.492	ug/L	m
Target Compounds						
1) T	Nitroglycerin	3.793	42551590	2033.310	ug/L	m
2) T	PETN	6.987	162597336	2027.466	ug/L	m

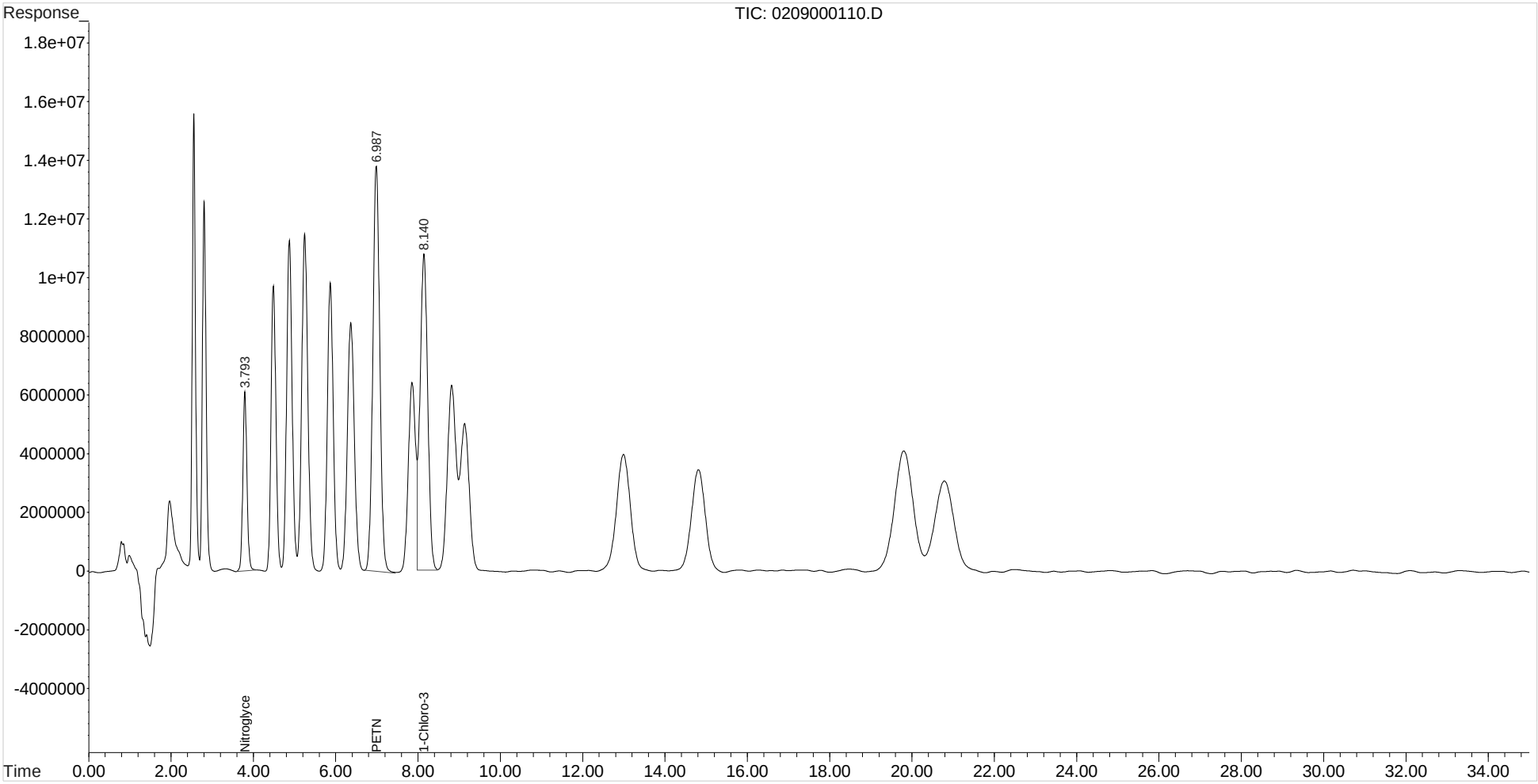
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:26:26 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

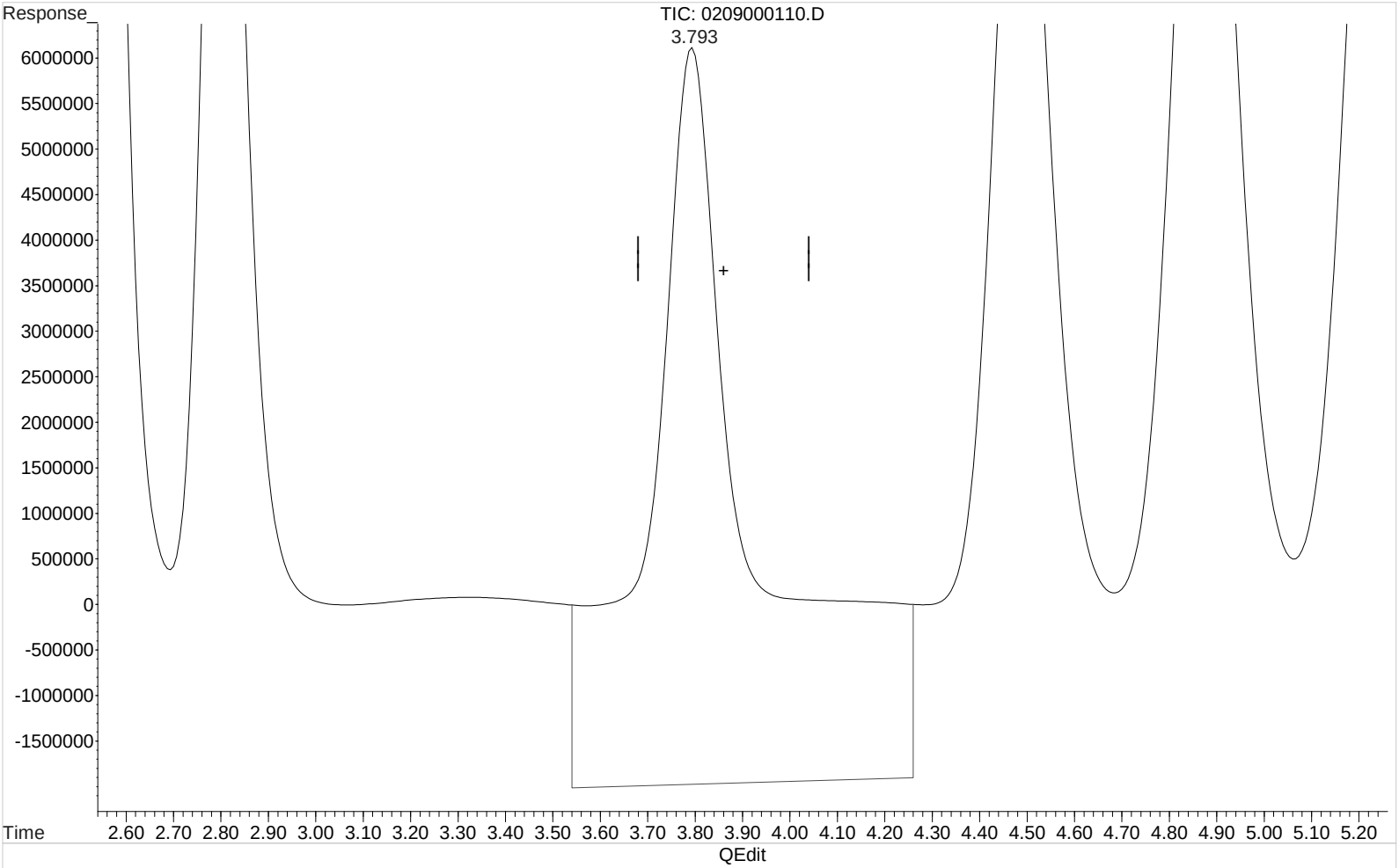


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:58 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.793min 6103.062 ug/L

response 127720293

Manual Integration:

Before

02/10/17

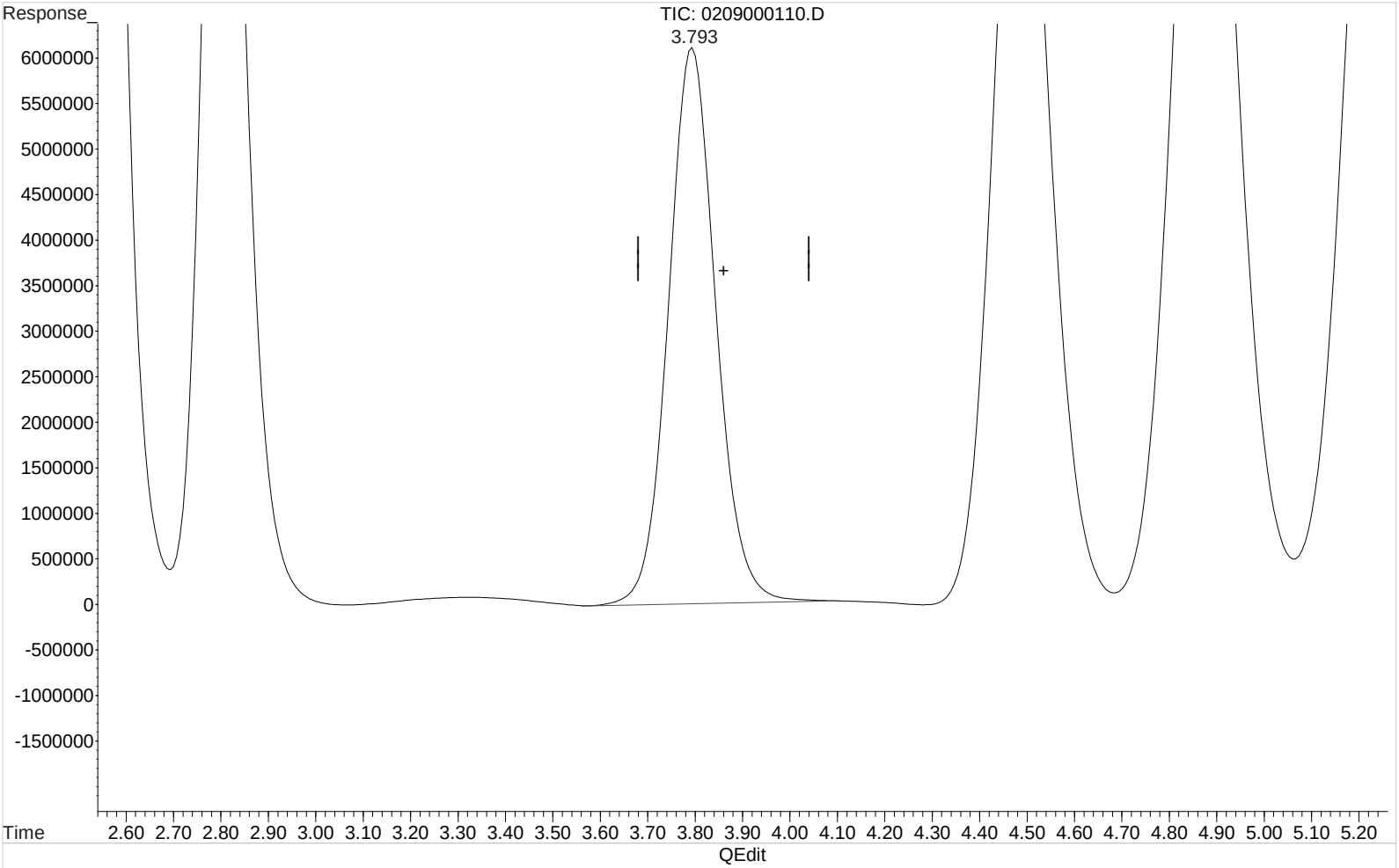
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:58 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.793min 2033.310 ug/L m

response 42551590

Manual Integration:

After

BLC

02/10/17

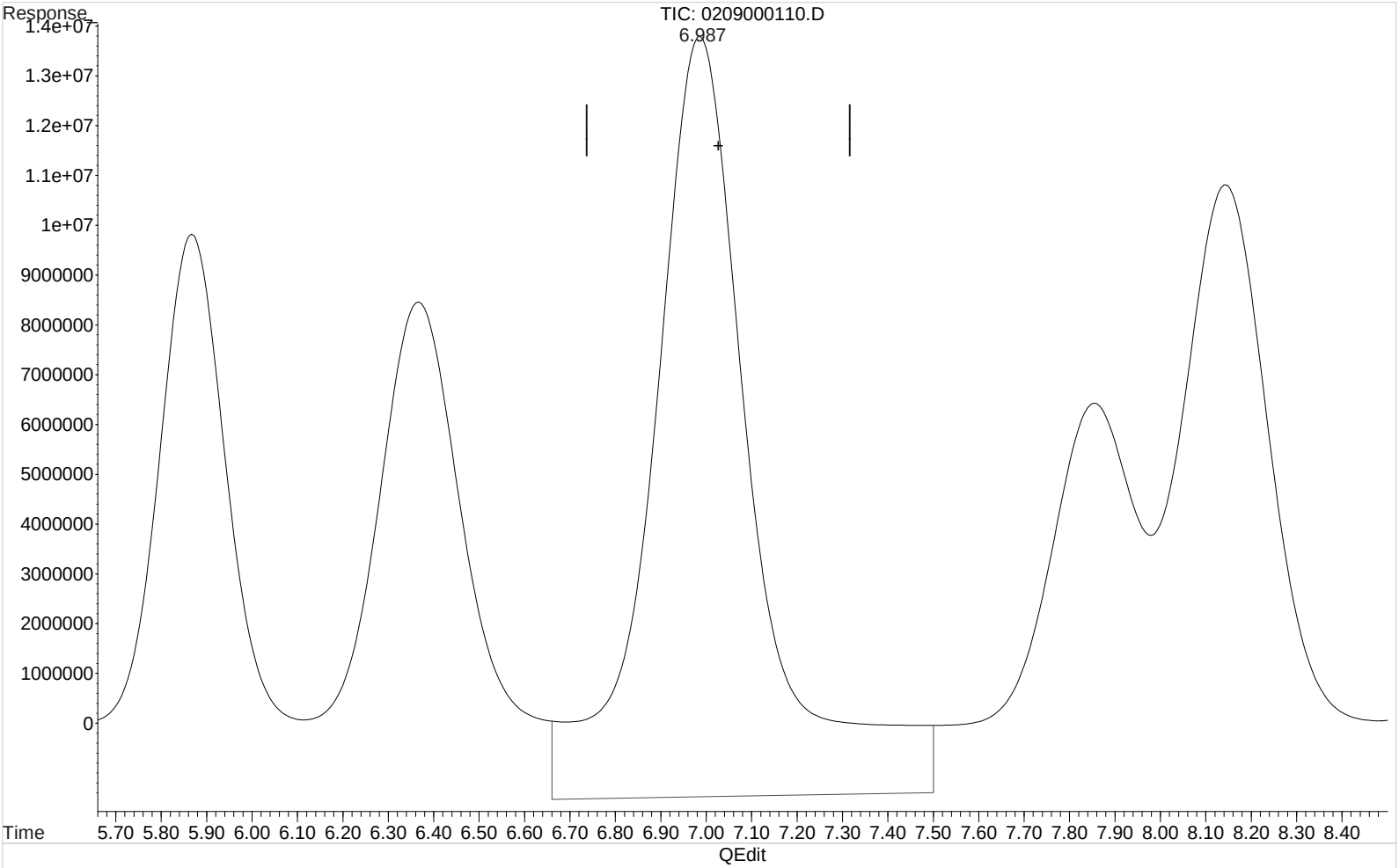
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:58 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.987min 2934.380 ug/L

response 235329399

Manual Integration:

Before

02/10/17

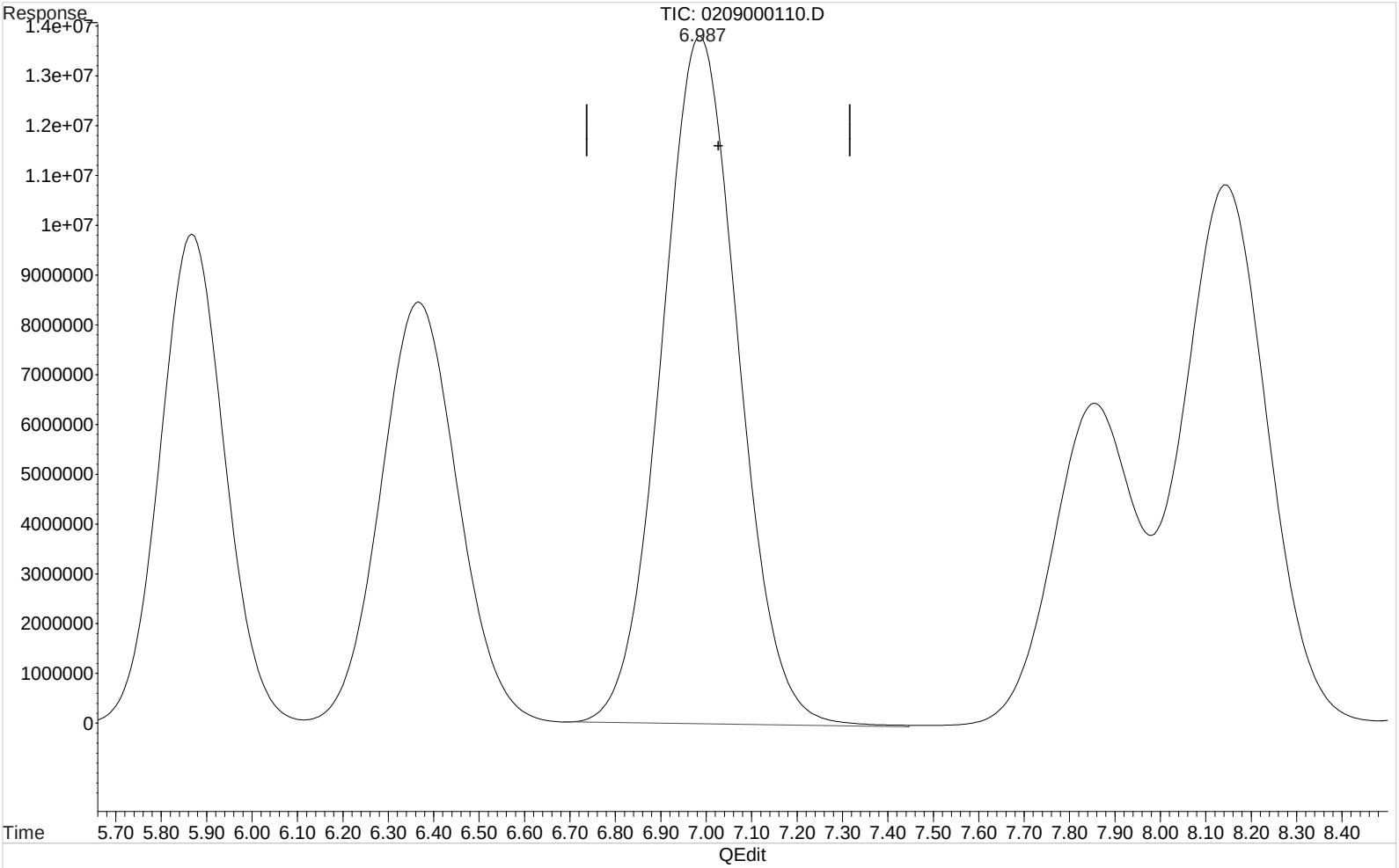
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:58 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.987min 2027.466 ug/L m

response 162597336

Manual Integration:

After

BLC

02/10/17

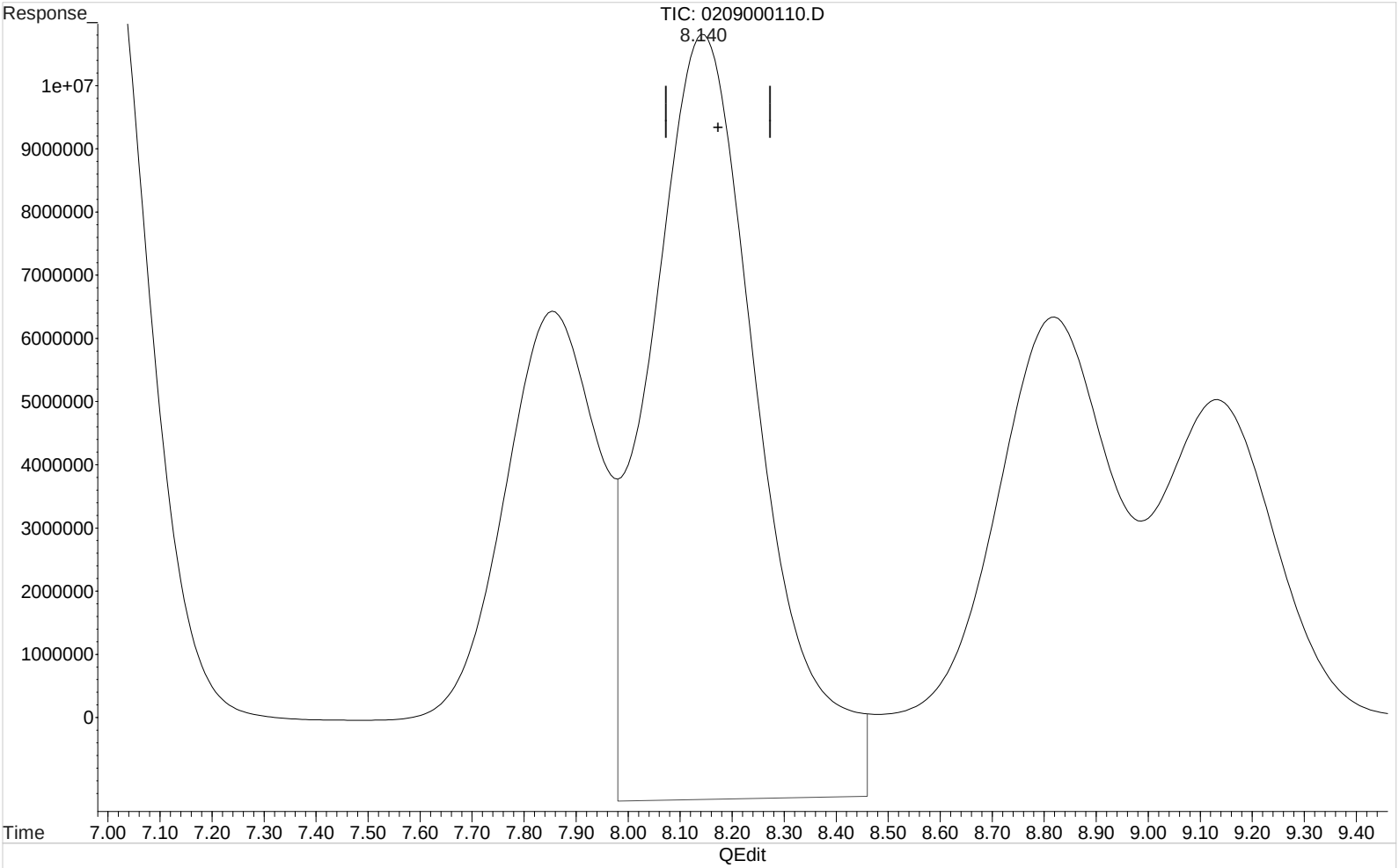
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:58 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.140min 2549.905 ug/L

response 177348124

Manual Integration:

Before

02/10/17

(+) = Expected Retention Time

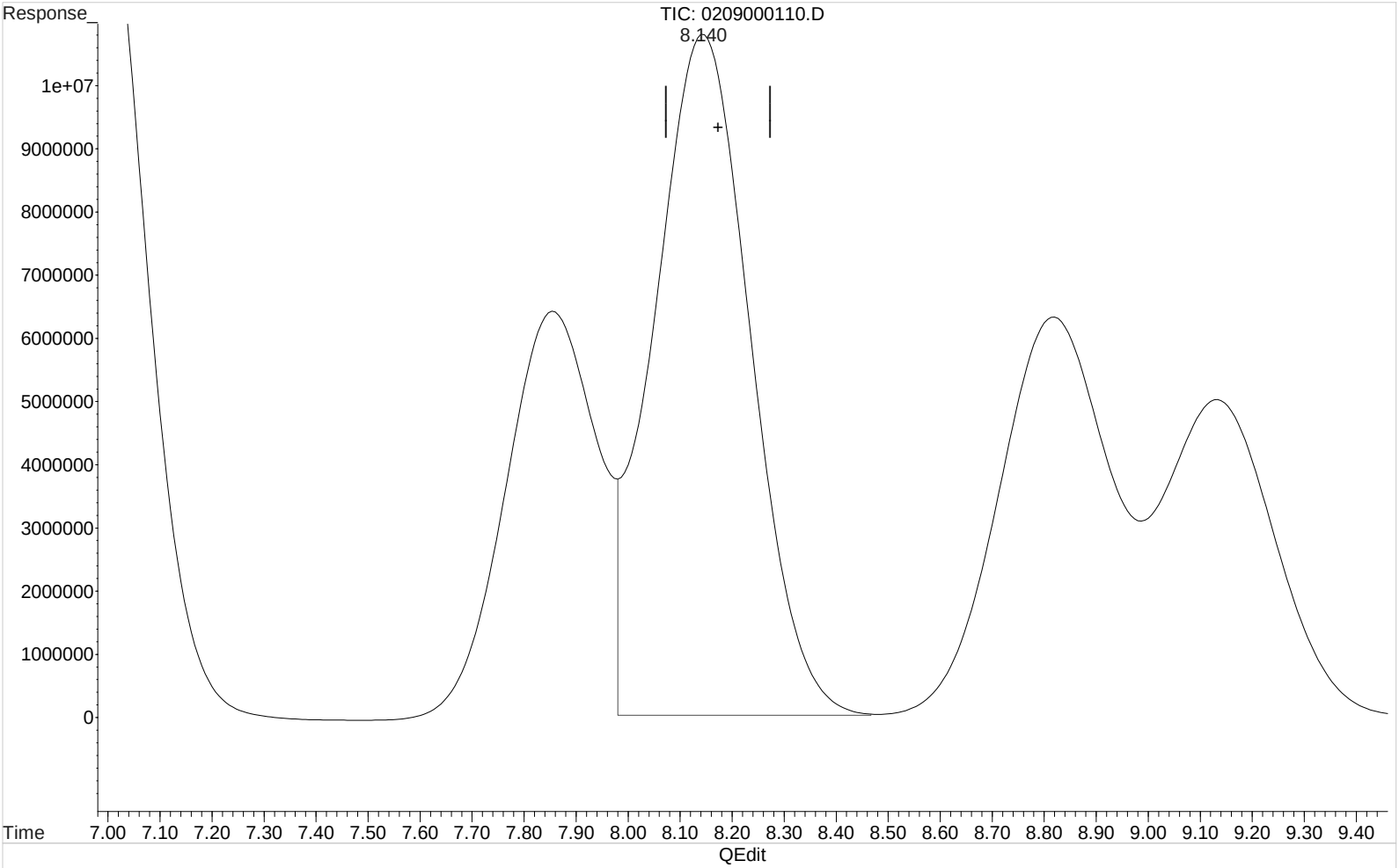
020917_Short_8330B@210.M Fri Feb 10 10:26:22 2017 Page: 1

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:58 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.140min 2004.492 ug/L m

response 139414192

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000111.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:40 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:08 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	8.147	351298284	5076.822	ug/L	
Target Compounds						
1) T	Nitroglycerin	3.787	104644653	5000.603	ug/L	m
2) T	PETN	6.987	405313182	5081.362	ug/L	m

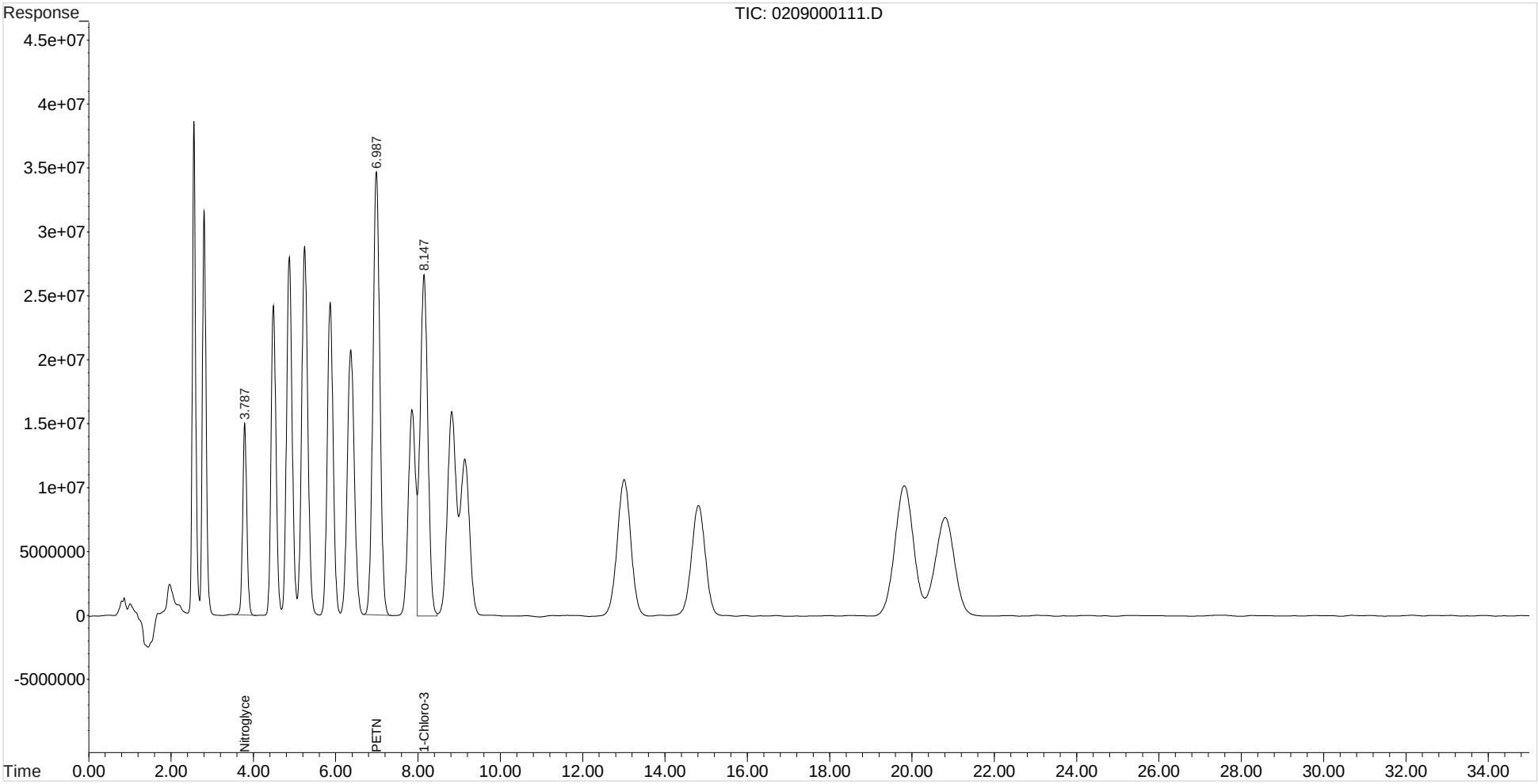
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000111.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:40 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:08 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

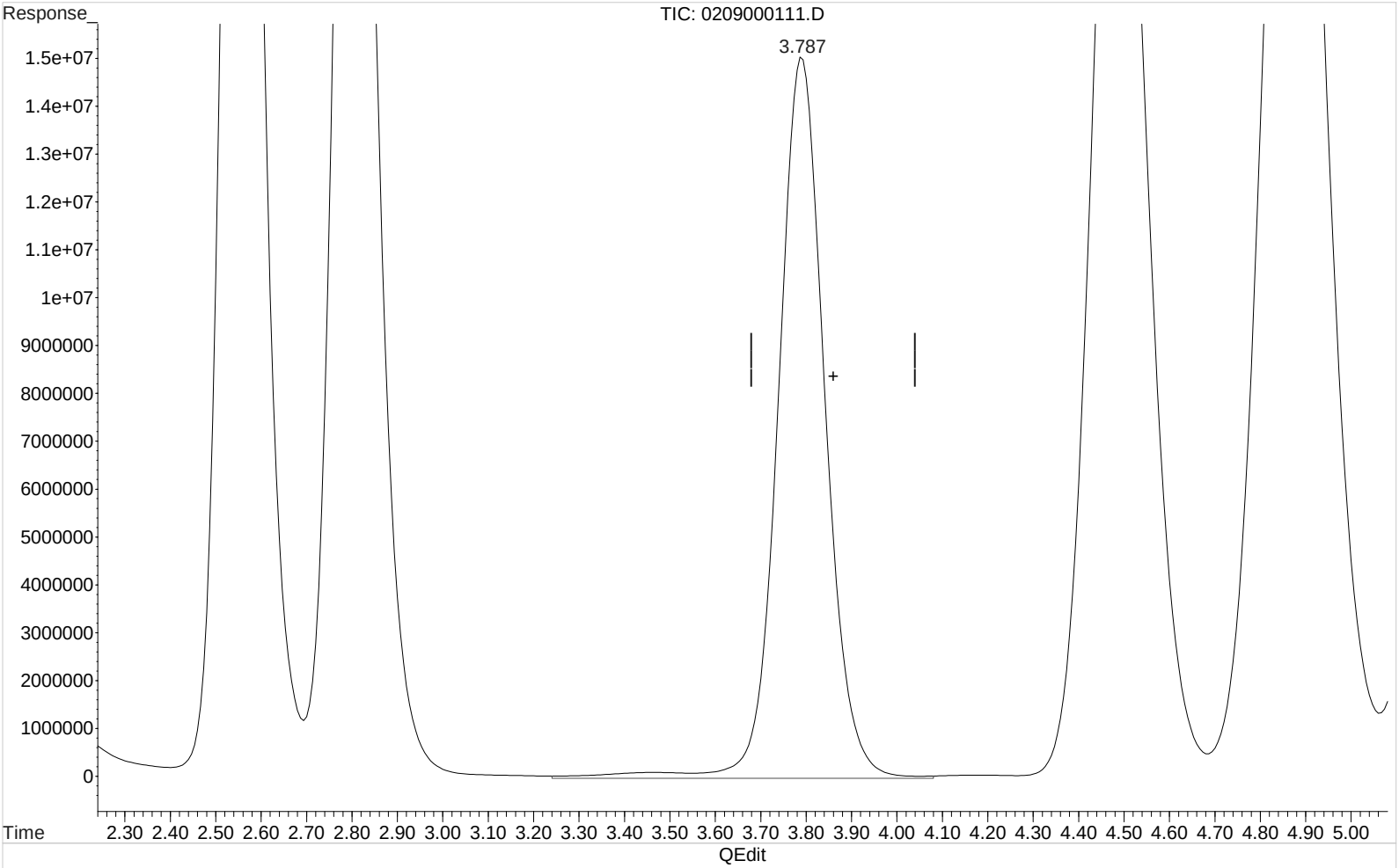


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000111.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:08 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.787min 5213.557 ug/L

response 109101011

Manual Integration:

Before

02/10/17

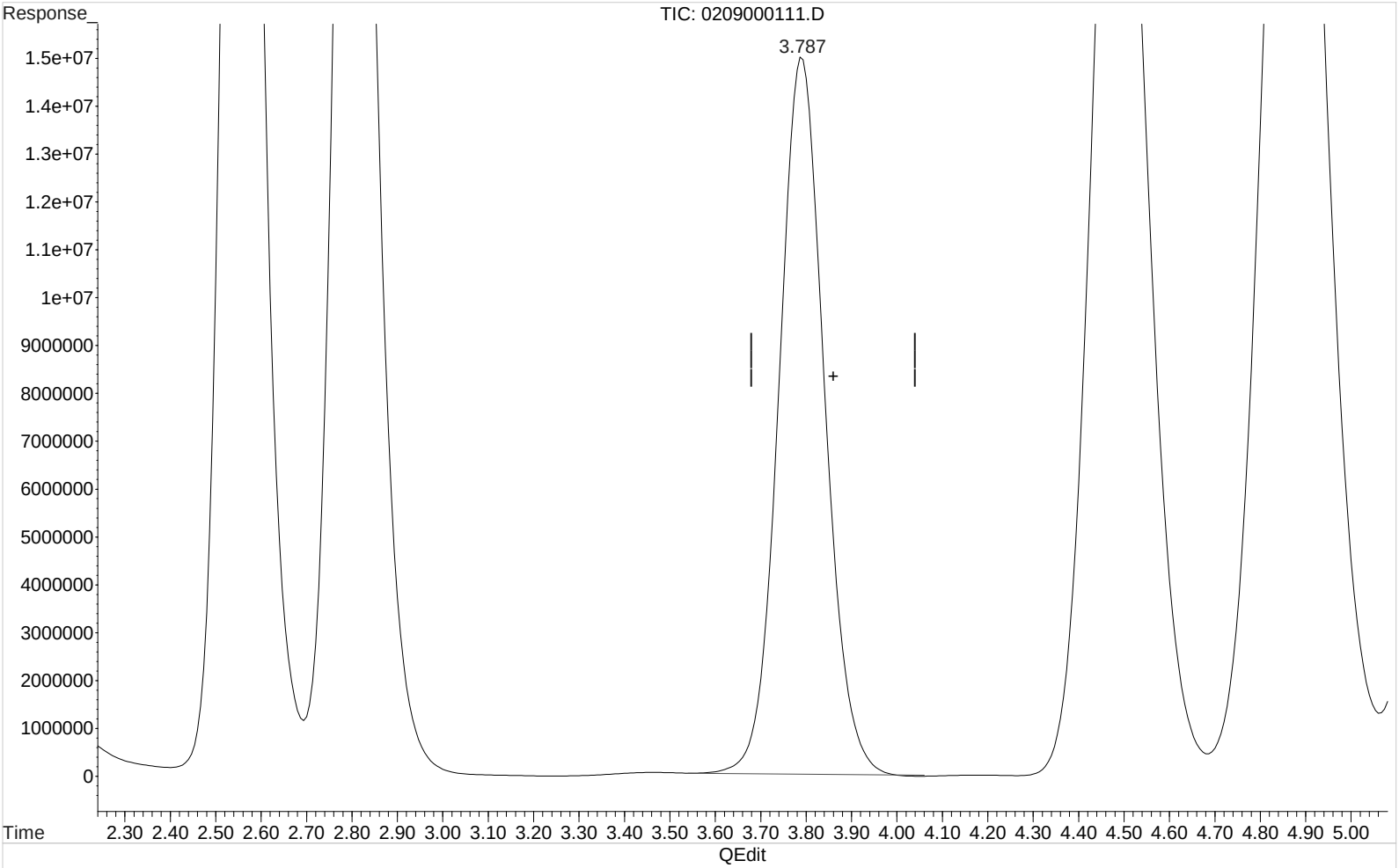
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000111.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:08 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.787min 5000.603 ug/L m

response 104644653

Manual Integration:

After

BLC

02/10/17

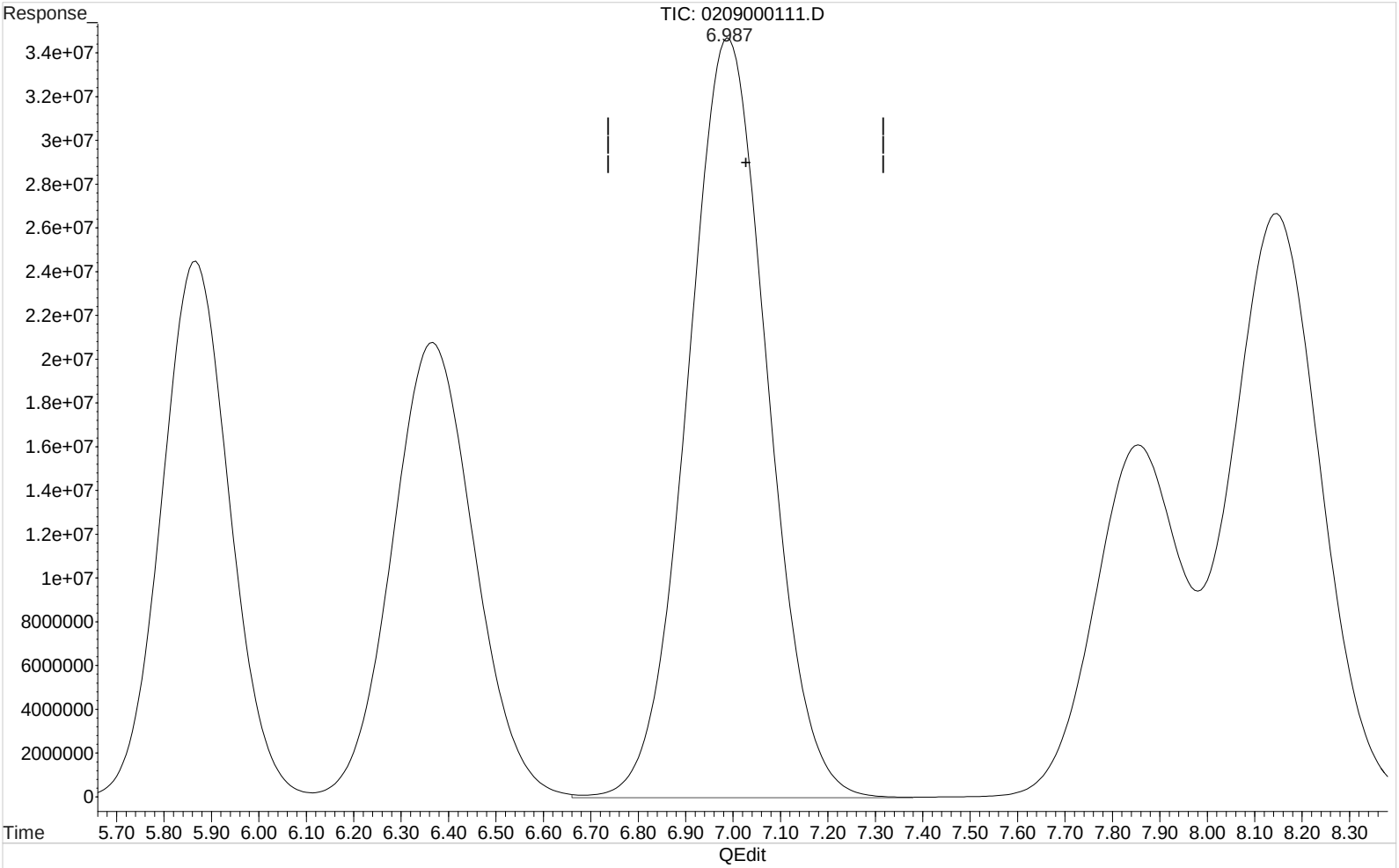
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000111.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:08 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.987min 5129.172 ug/L

response 409126699

Manual Integration:

Before

02/10/17

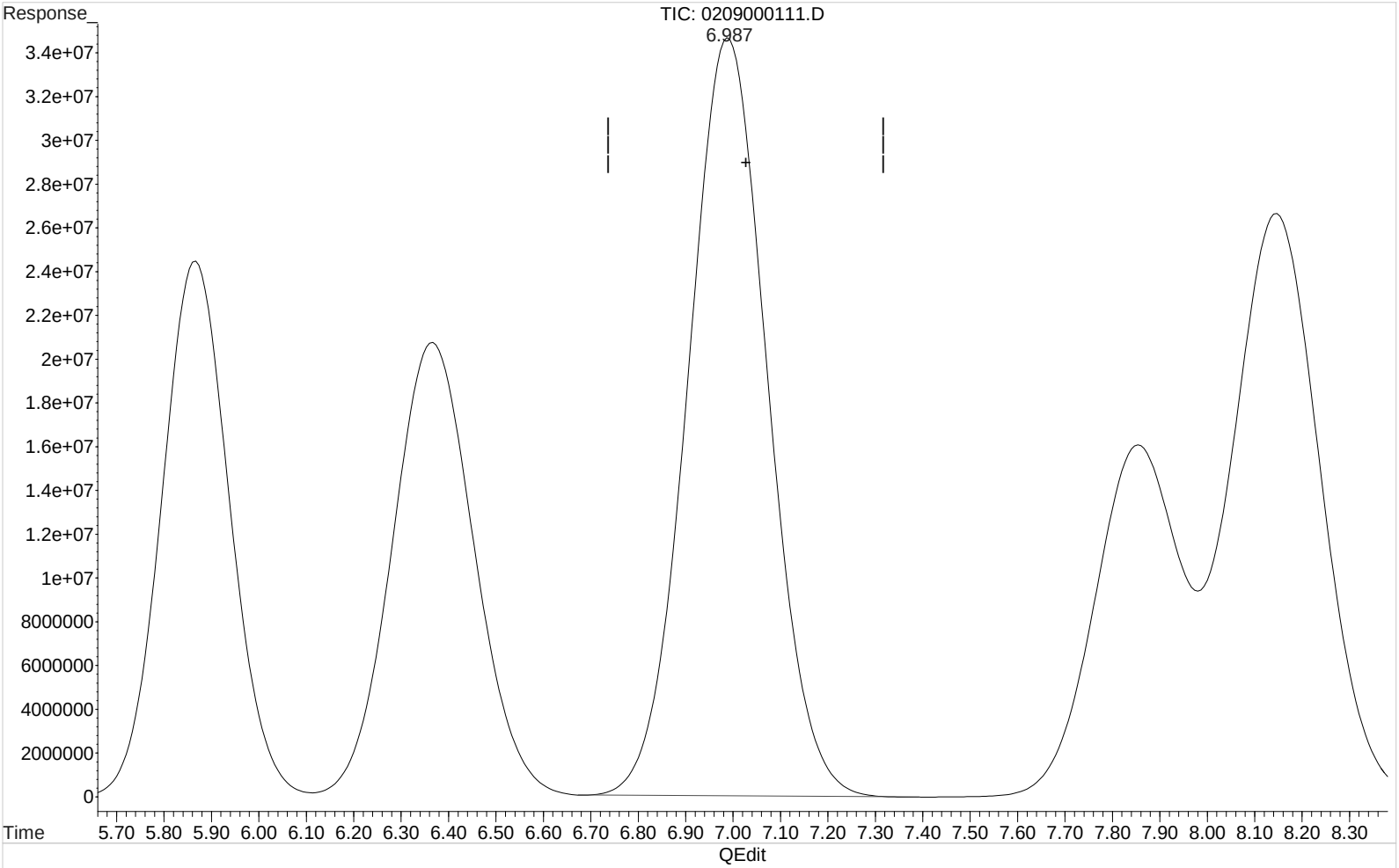
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000111.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:08 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.987min 5081.362 ug/L m

response 405313182

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000112.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:24:52 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:24:06 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	8.147	689768693	9936.722	ug/L	
Target Compounds						
1) T	Nitroglycerin	3.793	210346801	10104.020	ug/L	m
2) T	PETN	6.987	805997758	10211.609	ug/L	m

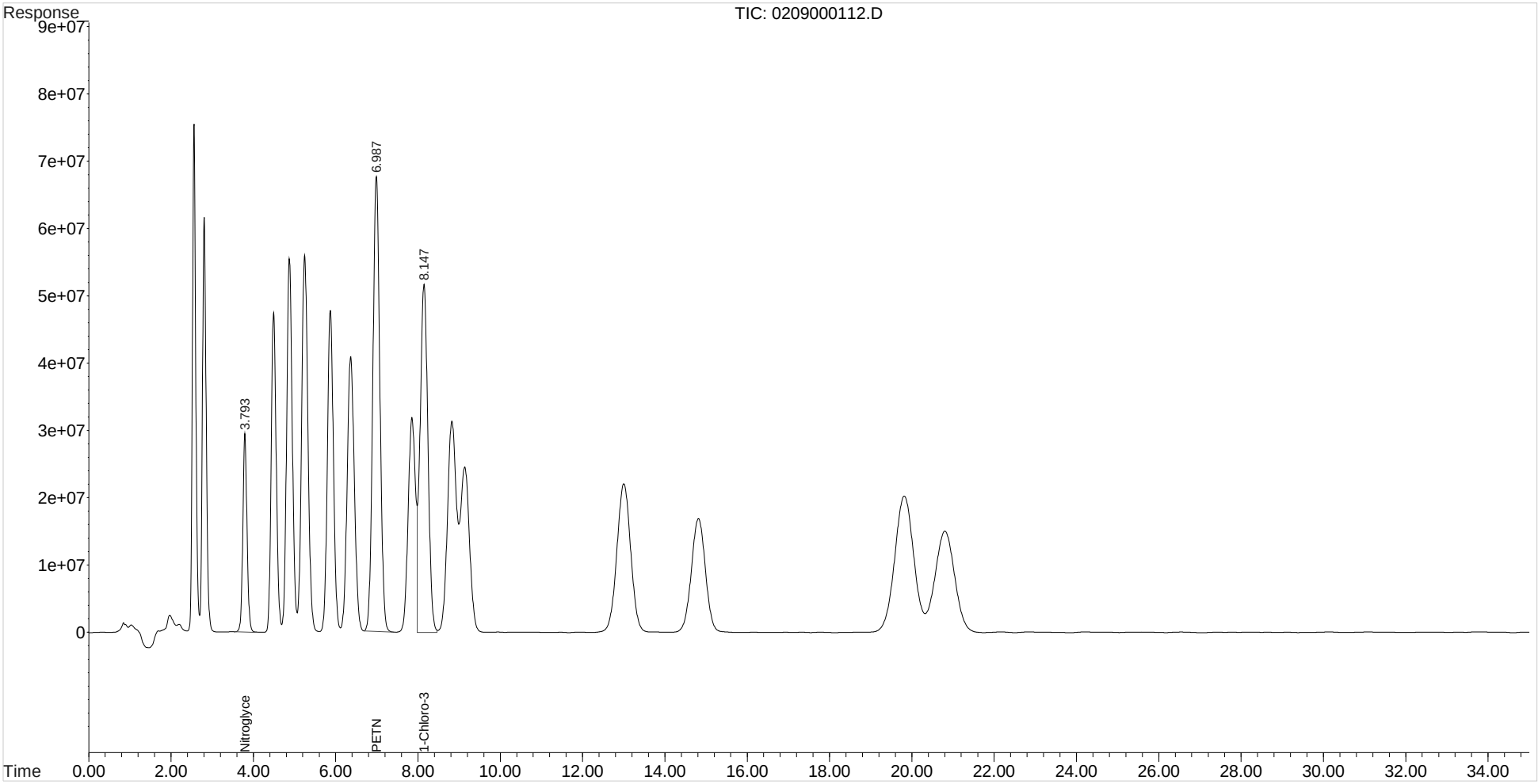
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000112.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:24:52 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:24:06 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

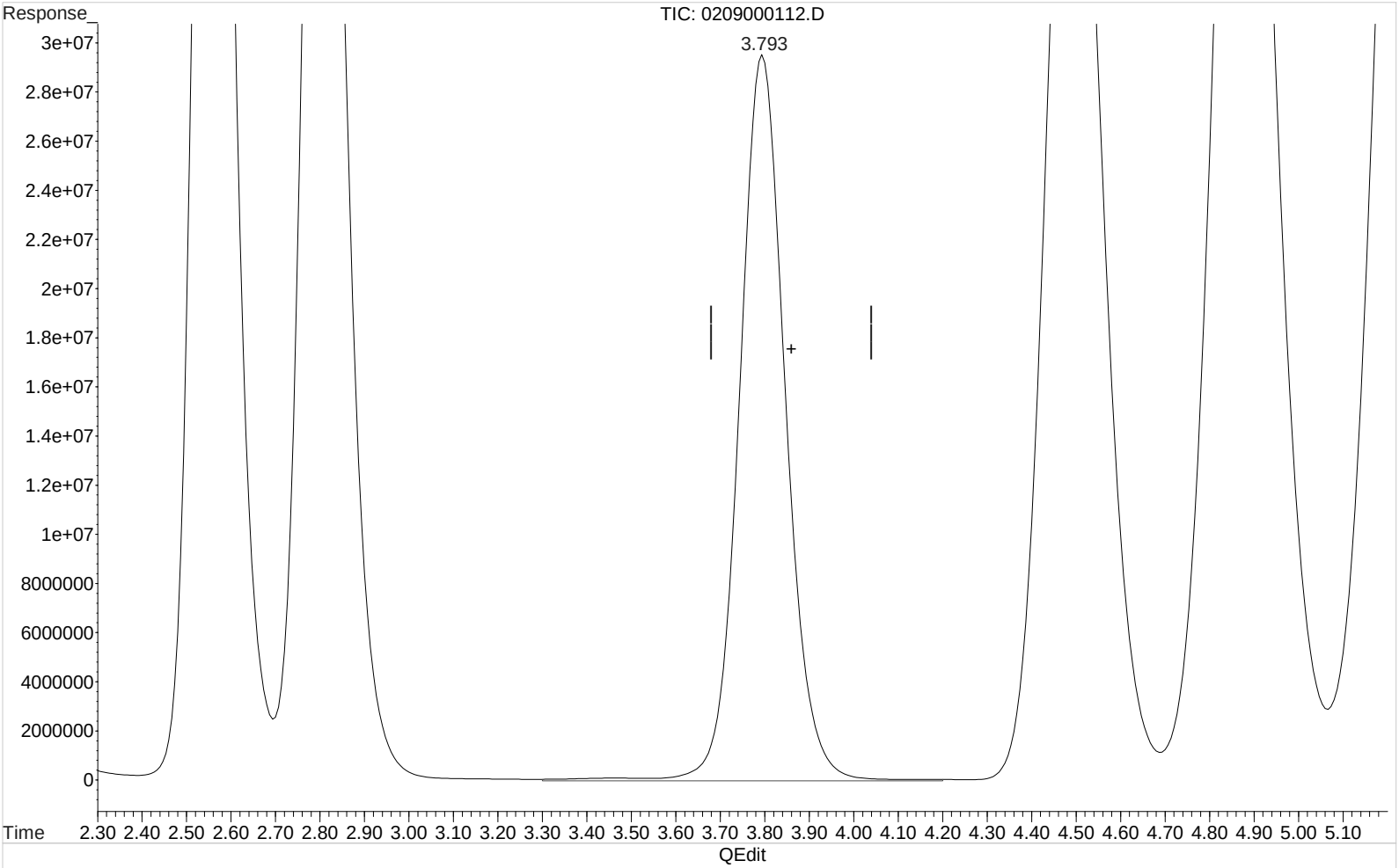


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000112.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:24:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:24:06 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.793min 10277.587 ug/L

response 213960148

Manual Integration:

Before

02/10/17

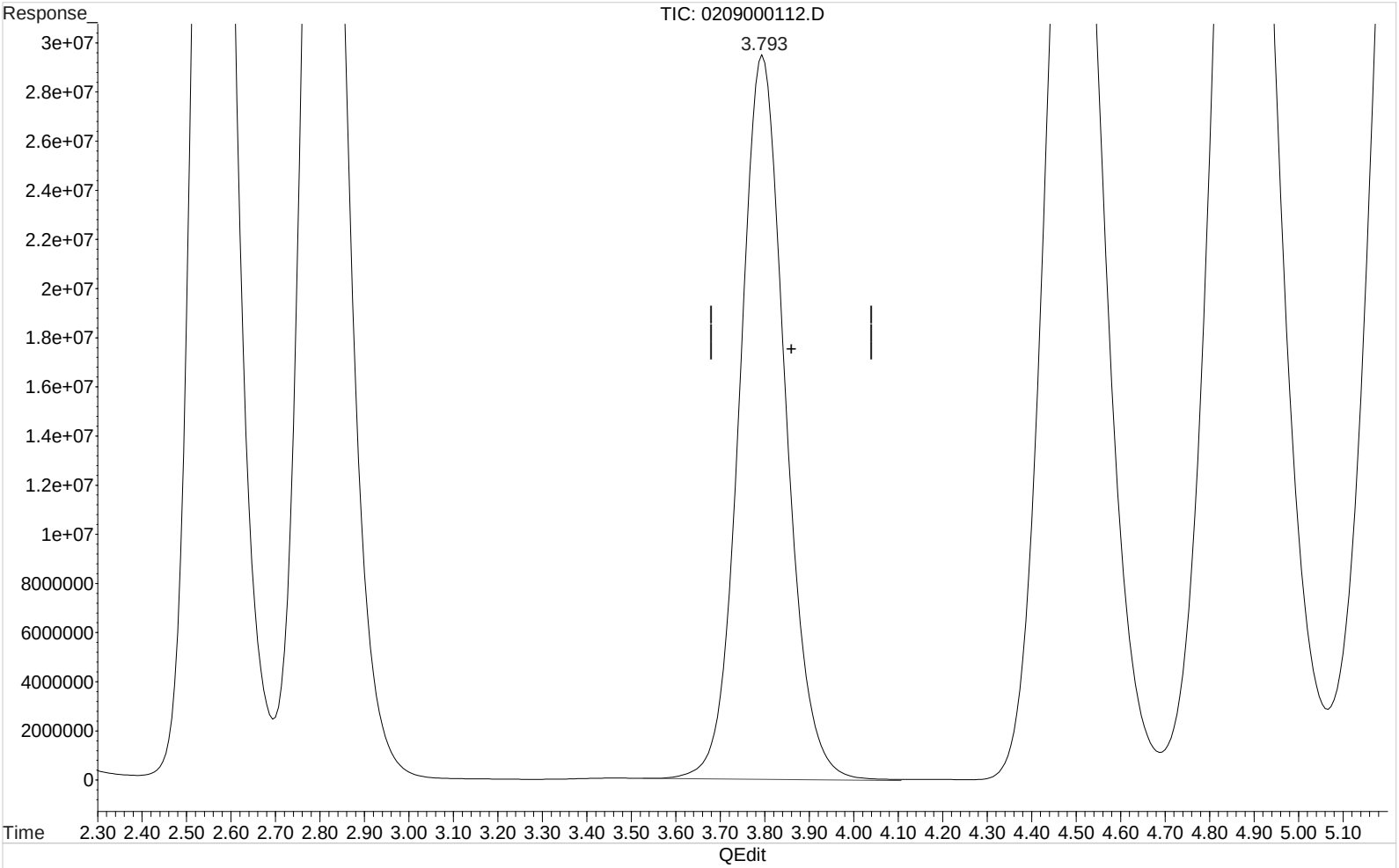
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000112.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:24:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:24:06 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.793min 10104.020 ug/L m

response 210346801

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

(b) (6)

02/13/17

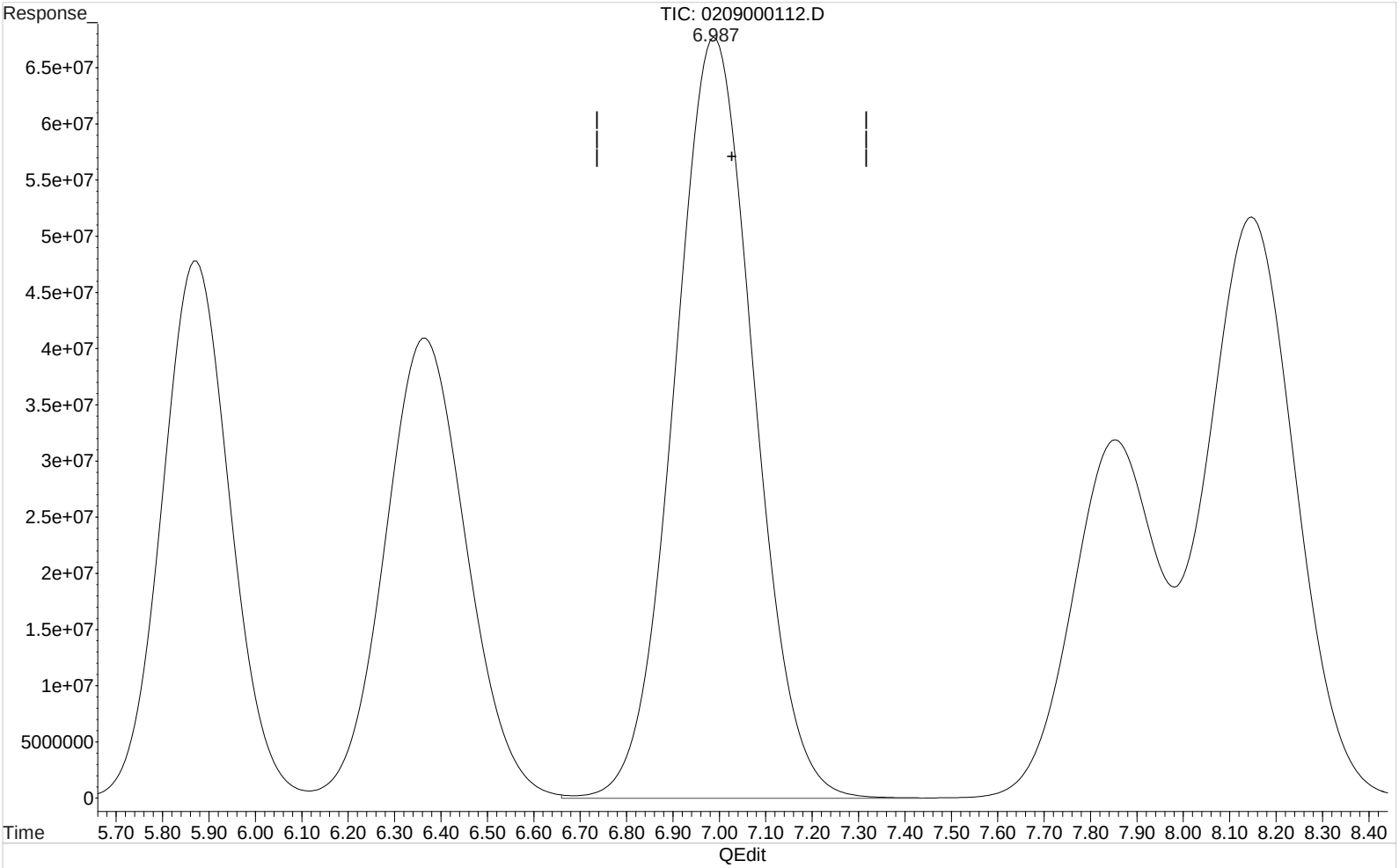
02/17/17

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000112.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:24:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:24:06 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.987min 10290.163 ug/L

response 812198027

Manual Integration:

Before

02/10/17

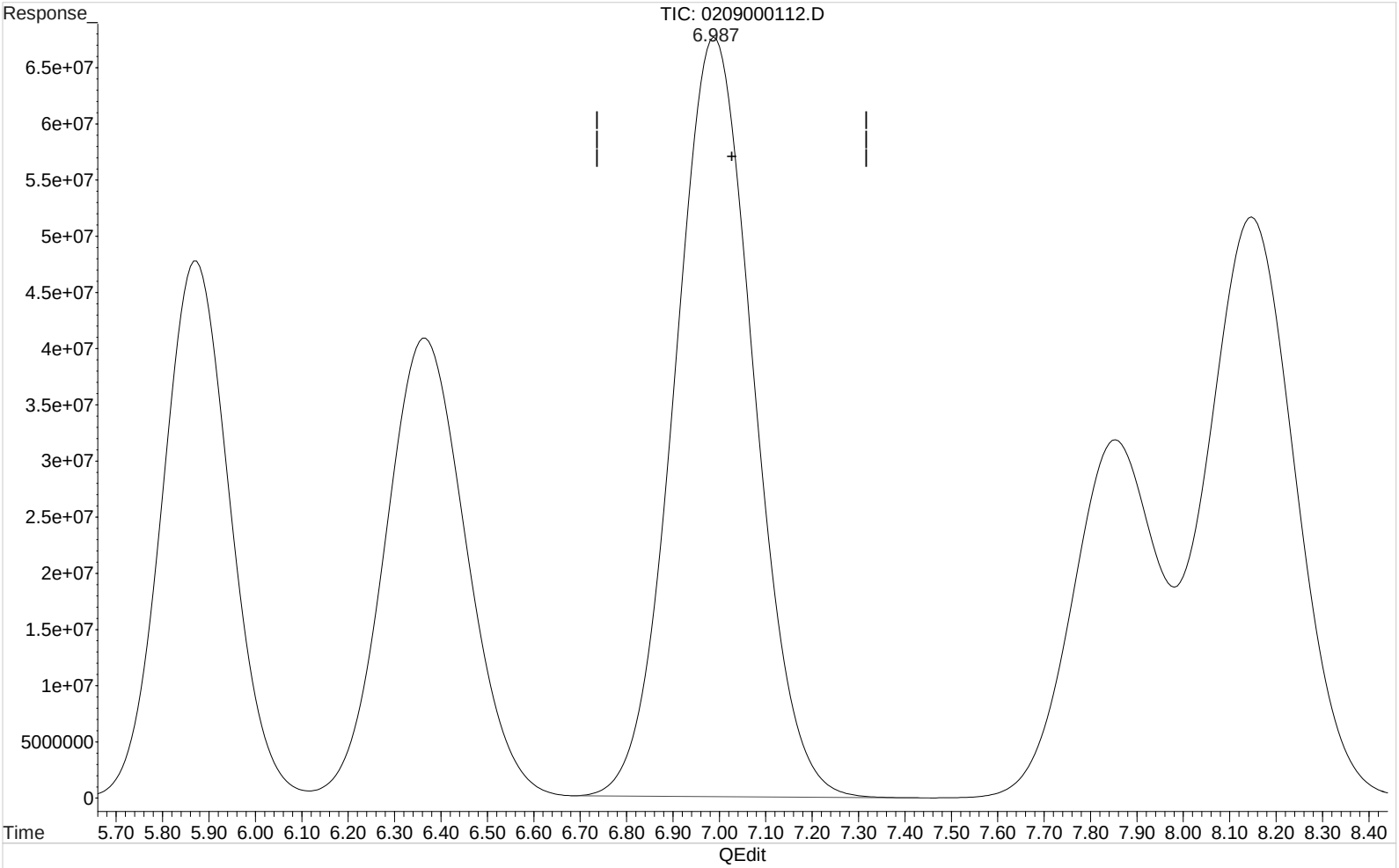
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000112.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:24:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:24:06 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.987min 10211.609 ug/L m

response 805997758

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000113.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:23:51 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:23:31 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	8.127	1388322466	NoCal	ug/L	m
Target Compounds						
1) T	Nitroglycerin	3.780	416362602	NoCal	ug/L	
2) T	PETN	6.973	1578591137	NoCal	ug/L	

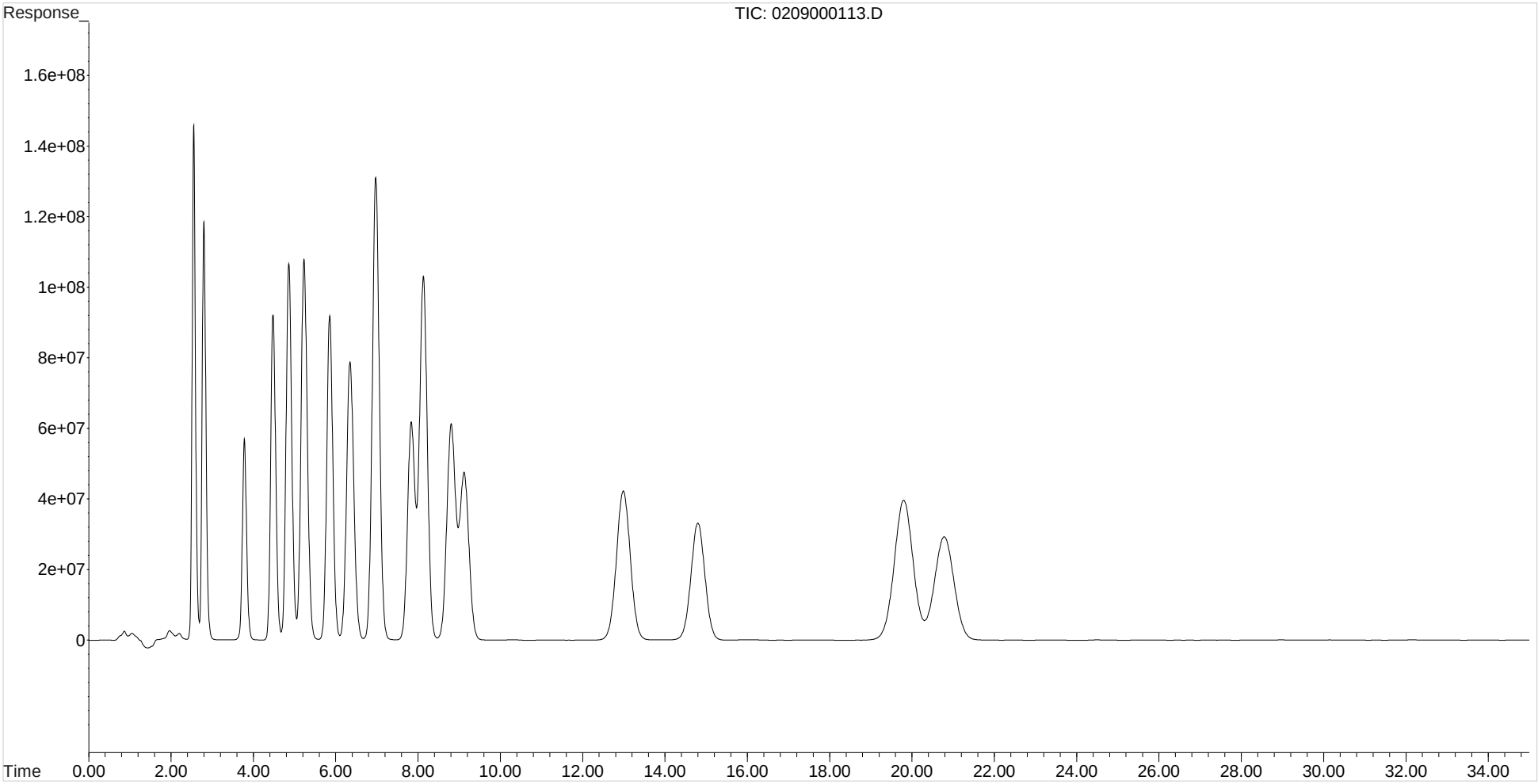
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000113.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:23:51 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:23:31 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

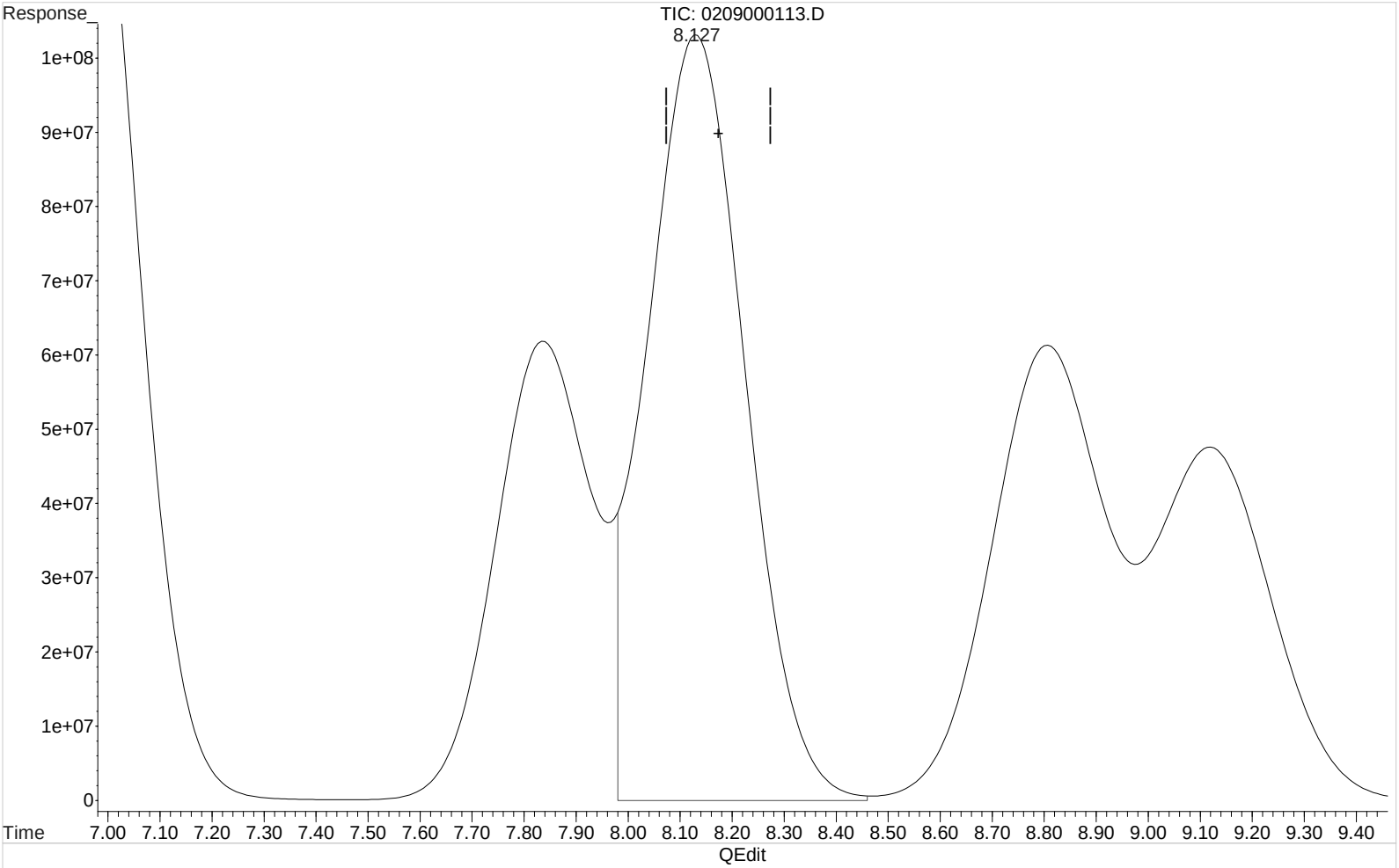


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000113.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:23:39 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:23:31 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.127min 0.000 ug/L

response 1344410632

Manual Integration:

Before

02/10/17

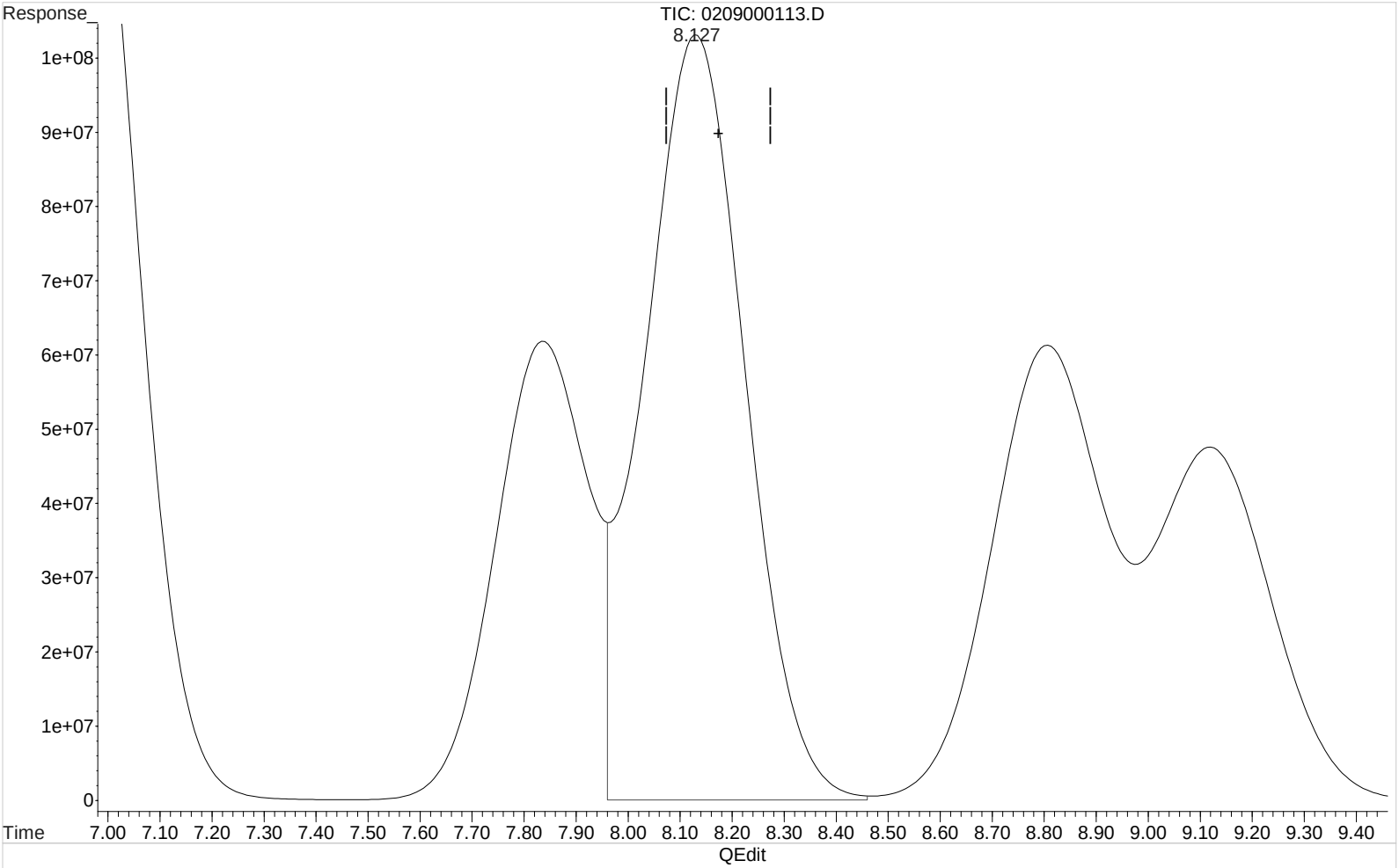
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000113.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:23:39 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:23:31 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.127min 0.000 ug/L m

response 1388322466

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000114.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 22:09:06 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:37:33 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L d
Target Compounds					
1) T	Nitroglycerin	0.000	0	N.D.	ug/L
2) T	PETN	0.000	0	N.D.	ug/L d

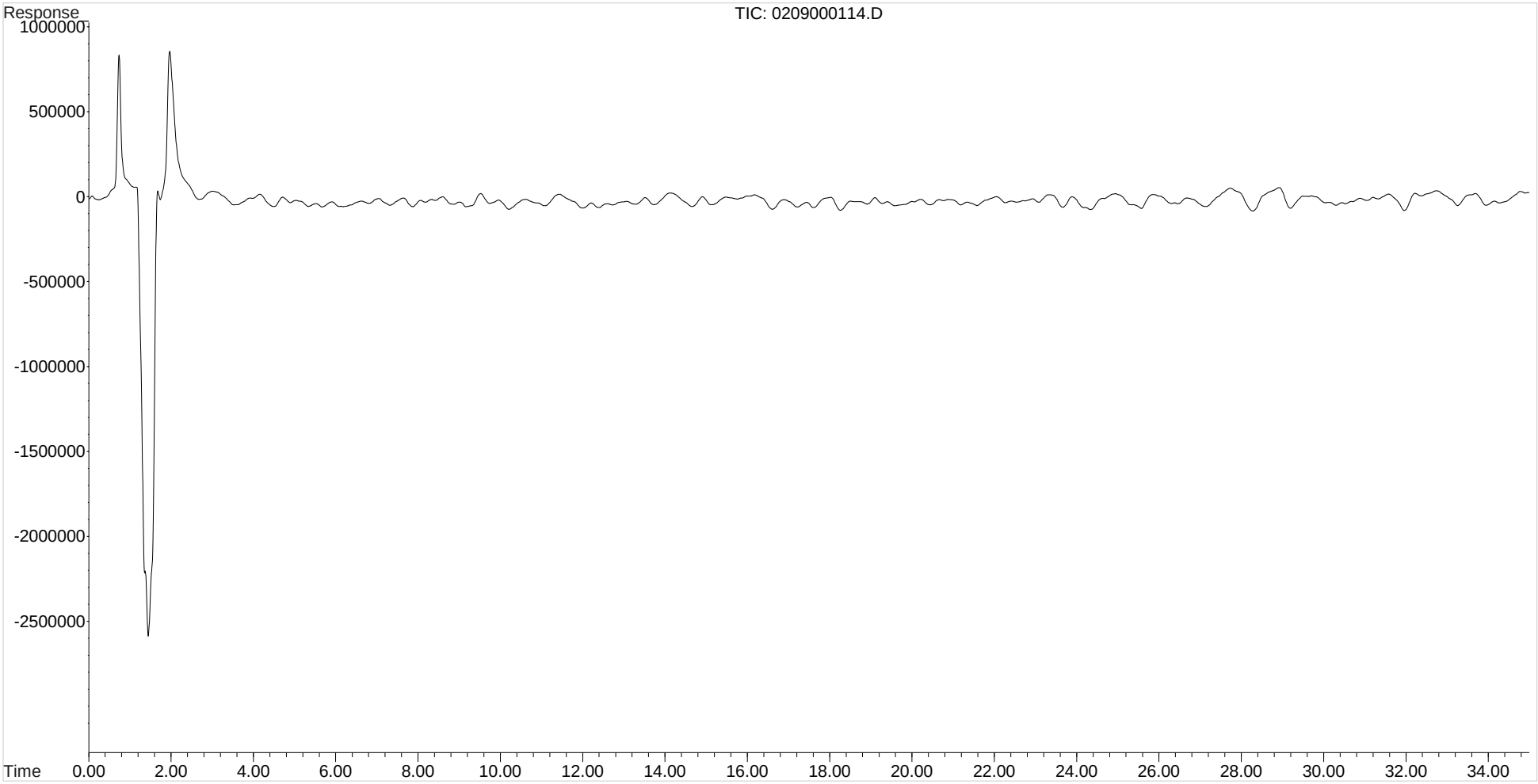
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000114.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 22:09:06 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:37:33 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000115.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:38:11 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	8.127	67923552	976.427 ug/L
Target Compounds				
1) T	Nitroglycerin	3.787	20764472	993.525 ug/L m
2) T	PETN	6.973	77460880	945.239 ug/L

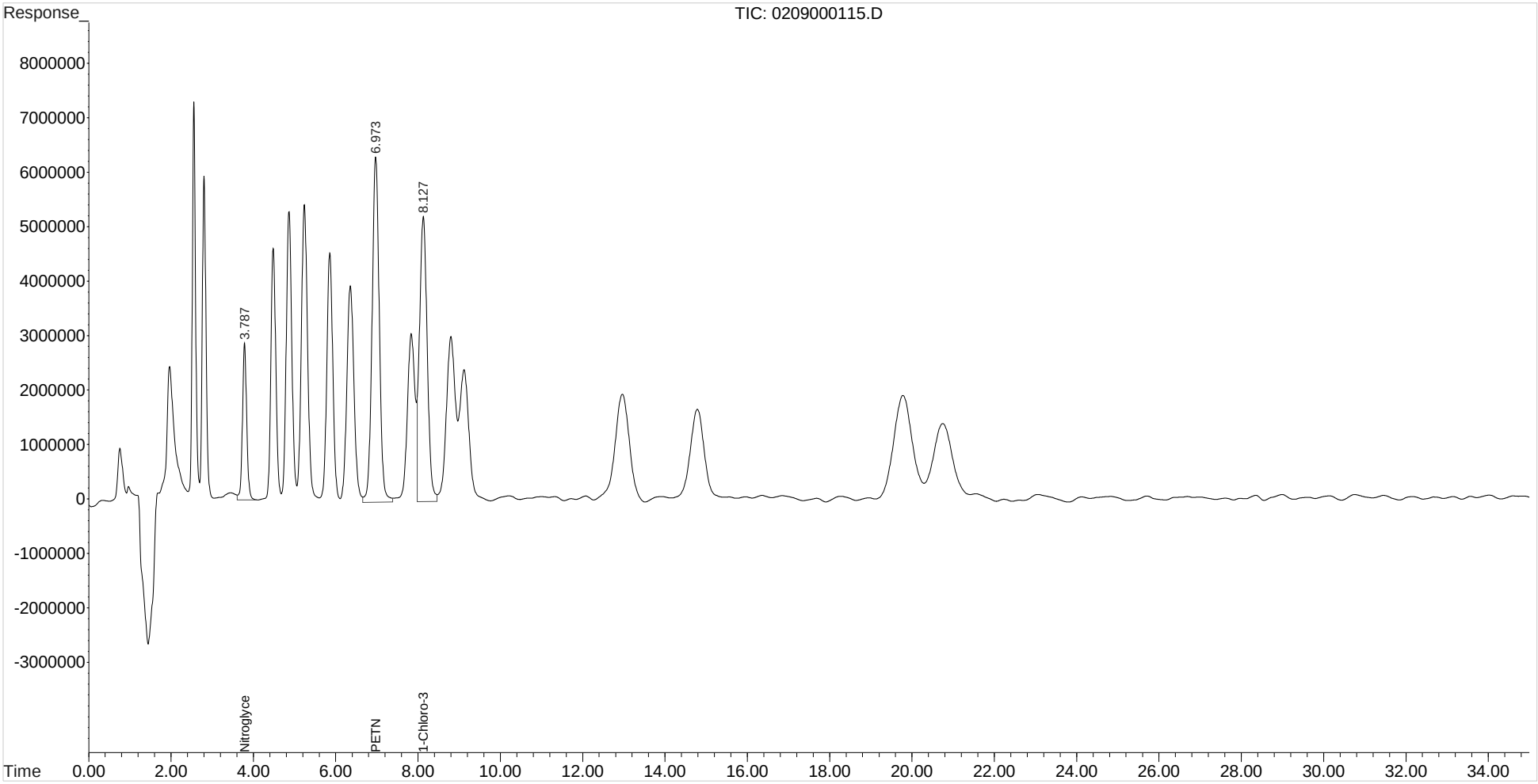
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000115.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:38:11 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

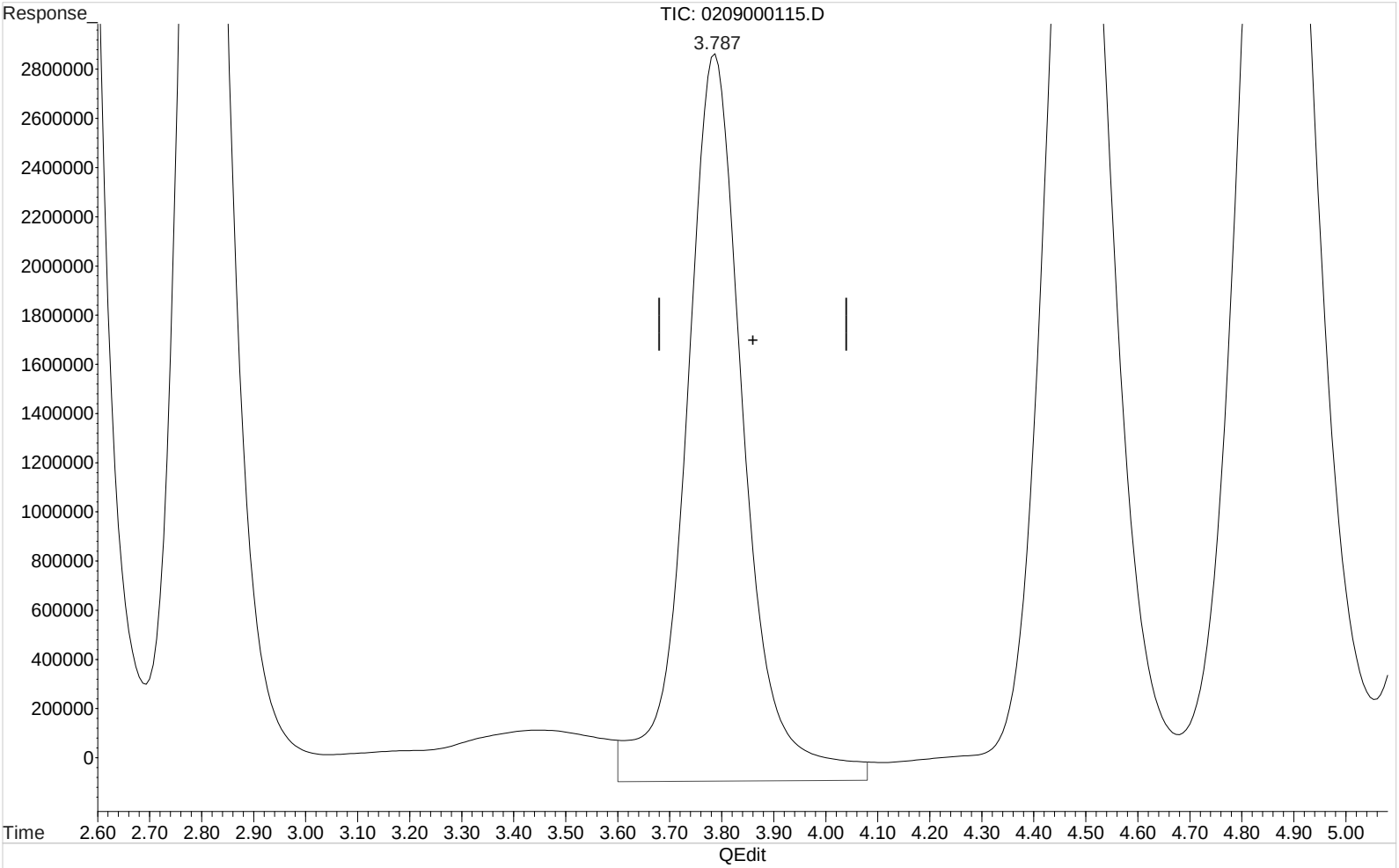


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000115.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:37:47 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.787min 1099.844 ug/L

response 22986522

Manual Integration:

Before

02/10/17

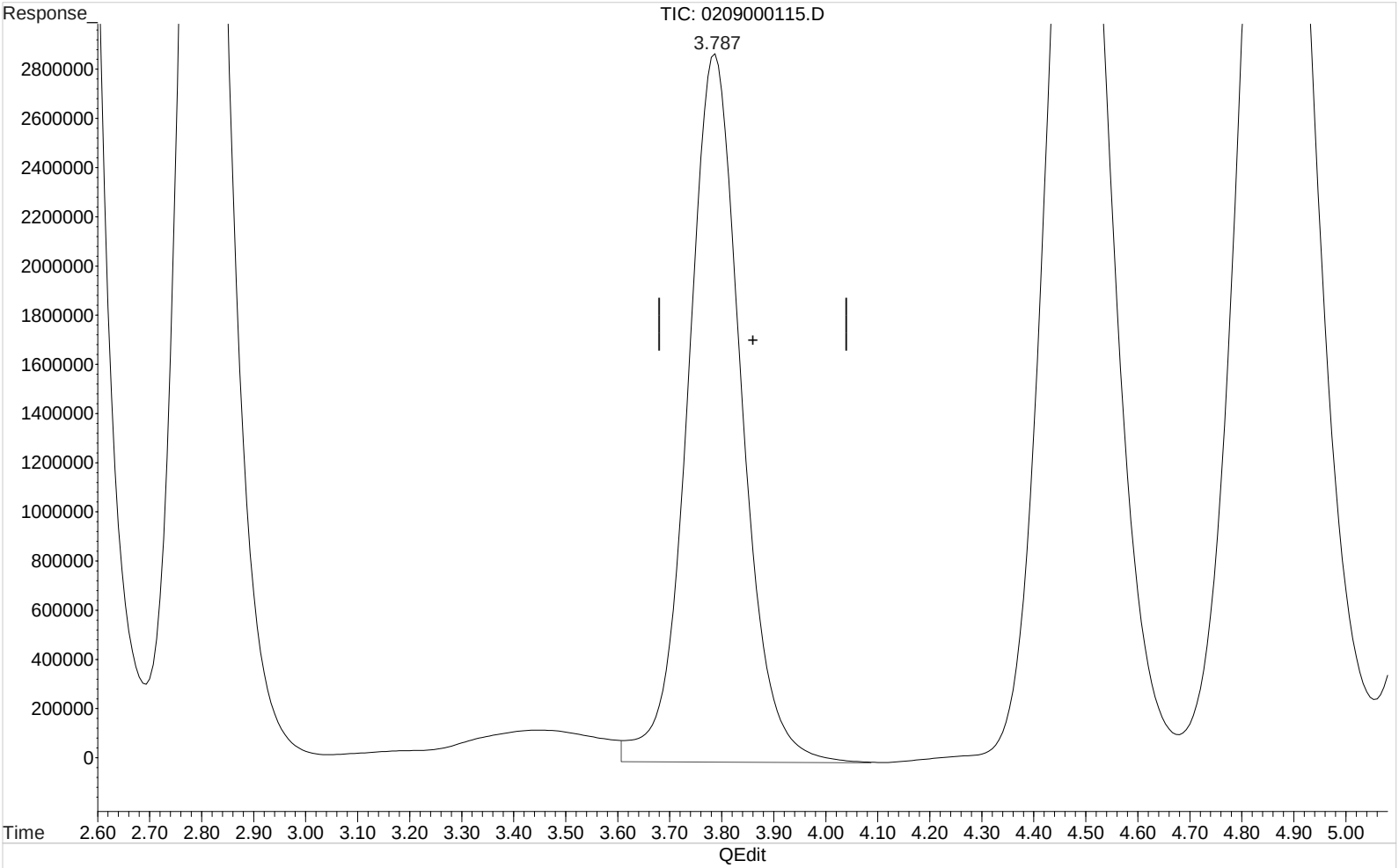
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000115.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:37:47 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.787min 993.525 ug/L m

response 20764472

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Date: 12/7/2016 **ALS Kelso, WA** **ICAL Date:** 12/7/2016

By: AE **Injection Log** **ICAL ID:** (254)-15062 (210)-15063

Stealth ID: n/a **LC10 - Agilent 1260** **LIMS ID:** n/a

2nd Review: (b) (6)

Column: Phen. Synergi Hydro-RP 80A 250x4.6 mm SN 759076-19

Mobile Phases A: MeOH Lot#: 56175 **B:** ACN Lot#: 56165 **C:** H_2O Lot#: 56006 **D:**

	Sample Name	File Name	Method	Dilution	R	Comments
1		12070000101	8330BX+DIAMINOS.M	NA		
2		12070000102	8330BX+DIAMINOS.M	NA		
3		1207000202	8330BX+DIAMINOS.M	NA		
4		1207000203	8330BX+DIAMINOS.M	NA		
5		1207000204	8330BX+DIAMINOS.M	NA		
6		1207000205	8330BX+DIAMINOS.M	NA		
7		1207000206	8330BX+DIAMINOS.M	NA		
8		1207000207	8330BX+DIAMINOS.M	NA		
9		1207000303	8330BX+DIAMINOS.M	NA		
10		1207000404	8330BX+DIAMINOS.M	NA		
11		1207000405	8330BX+DIAMINOS.M	NA		
12		1207000505	8330BX+DIAMINOS.M	NA		
13		1207000601	8330BX+DIAMINOS.M	NA		
14		1207000602	8330BX+DIAMINOS.M	NA		
15		1207000603	8330BX+DIAMINOS.M	NA		
16		1207000701	8330BX+DIAMINOS.M	NA		
17		1207000702	8330BX+DIAMINOS.M	NA		
18	IB	1207000703	8330BX+DIAMINOS.M	NA	X	
19	16-OLC-01-89J 20 PPB	1207000704	8330BX+DIAMINOS.M	NA	X	
20	16-OLC-01-89I 50 PPB	1207000705	8330BX+DIAMINOS.M	NA	X	
21	16-OLC-01-89H 100 PPB	1207000706	8330BX+DIAMINOS.M	NA	X	
22	16-OLC-01-89G 200 PPB	1207000707	8330BX+DIAMINOS.M	NA	X	
23	16-OLC-01-89F 500 PPB	1207000708	8330BX+DIAMINOS.M	NA	X	
24	16-OLC-01-89E 1000 PPB	1207000709	8330BX+DIAMINOS.M	NA	X	
25	16-OLC-01-89D 2000 PPB	1207000710	8330BX+DIAMINOS.M	NA	X	
26	16-OLC-01-89C 5000 PPB	1207000711	8330BX+DIAMINOS.M	NA	X	
27	16-OLC-01-89B 10000 PPB	1207000712	8330BX+DIAMINOS.M	NA	X	
28	16-OLC-01-89A 20000 PPB	1207000713	8330BX+DIAMINOS.M	NA	X	
29	IB	1207000714	8330BX+DIAMINOS.M	NA	X	
30	16-OLC-01-89K 10000 PPB ICV	1207000715	8330BX+DIAMINOS.M	NA	X	

(Cal not valid for Diaminos)

R:\OLC\Injection Logs\LC10 2016\INJLOG_LC10_xl_120716_ICAL

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000703.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 19:36:44 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:24:49 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:23:13 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
18) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
	Target Compounds				
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2) T	HMX	0.000	0	N.D.	ug/L
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4) T	RDX	0.000	0	N.D.	ug/L
5) T	1,3,5-TNB	0.000	0	N.D.	ug/L
6) T	1,3-DNB	0.000	0	N.D.	ug/L
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8) T	Tetryl	0.000	0	N.D.	ug/L
9) T	Nitrobenzene	0.000	0	N.D.	ug/L
10) T	2,4,6-TNT	0.000	0	N.D.	ug/L
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13) T	2,6-DNT	0.000	0	N.D.	ug/L
14) T	2,4-DNT	0.000	0	N.D.	ug/L
15) T	2-NT	0.000	0	N.D.	ug/L
16) T	4-NT	0.000	0	N.D.	ug/L
17) T	3-NT	0.000	0	N.D.	ug/L

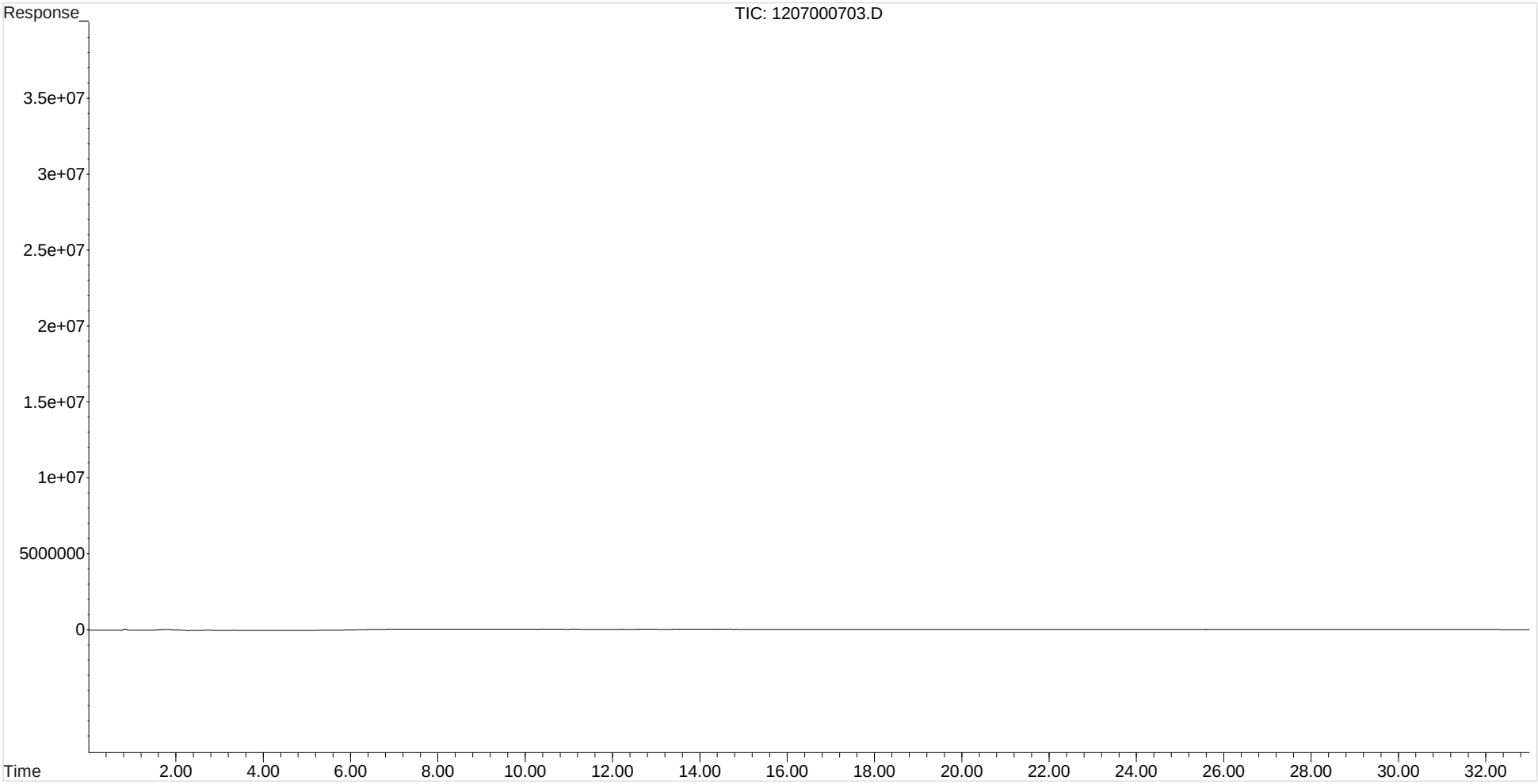
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000703.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 19:36:44 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:24:49 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:23:13 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 13:46:47 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
18) S	1-Chloro-3-Nitrobenzene	29.718	461332	NoCal	ug/L	m
	Target Compounds					
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2) T	HMX	4.618	232698	NoCal	ug/L	m
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4) T	RDX	8.378	420328	NoCal	ug/L	m
5) T	1,3,5-TNB	10.518	908690	NoCal	ug/L	m
6) T	1,3-DNB	13.865	1258488	NoCal	ug/L	
7) T	3,5-Dinitroaniline	14.978	975768	NoCal	ug/L	m
8) T	Tetryl	15.592	673809	NoCal	ug/L	m
9) T	Nitrobenzene	16.198	787874	NoCal	ug/L	m
10) T	2,4,6-TNT	17.445	797481	NoCal	ug/L	m
11) T	4-Amino-2,6-DNT	19.212	537582	NoCal	ug/L	m
12) T	2-Amino-4,6-DNT	20.038	846074	NoCal	ug/L	m
13) T	2,6-DNT	21.765	470868	NoCal	ug/L	m
14) T	2,4-DNT	22.218	1151614	NoCal	ug/L	m
15) T	2-NT	25.332	349859	NoCal	ug/L	m
16) T	4-NT	26.252	319957	NoCal	ug/L	m
17) T	3-NT	27.378	411159	NoCal	ug/L	m

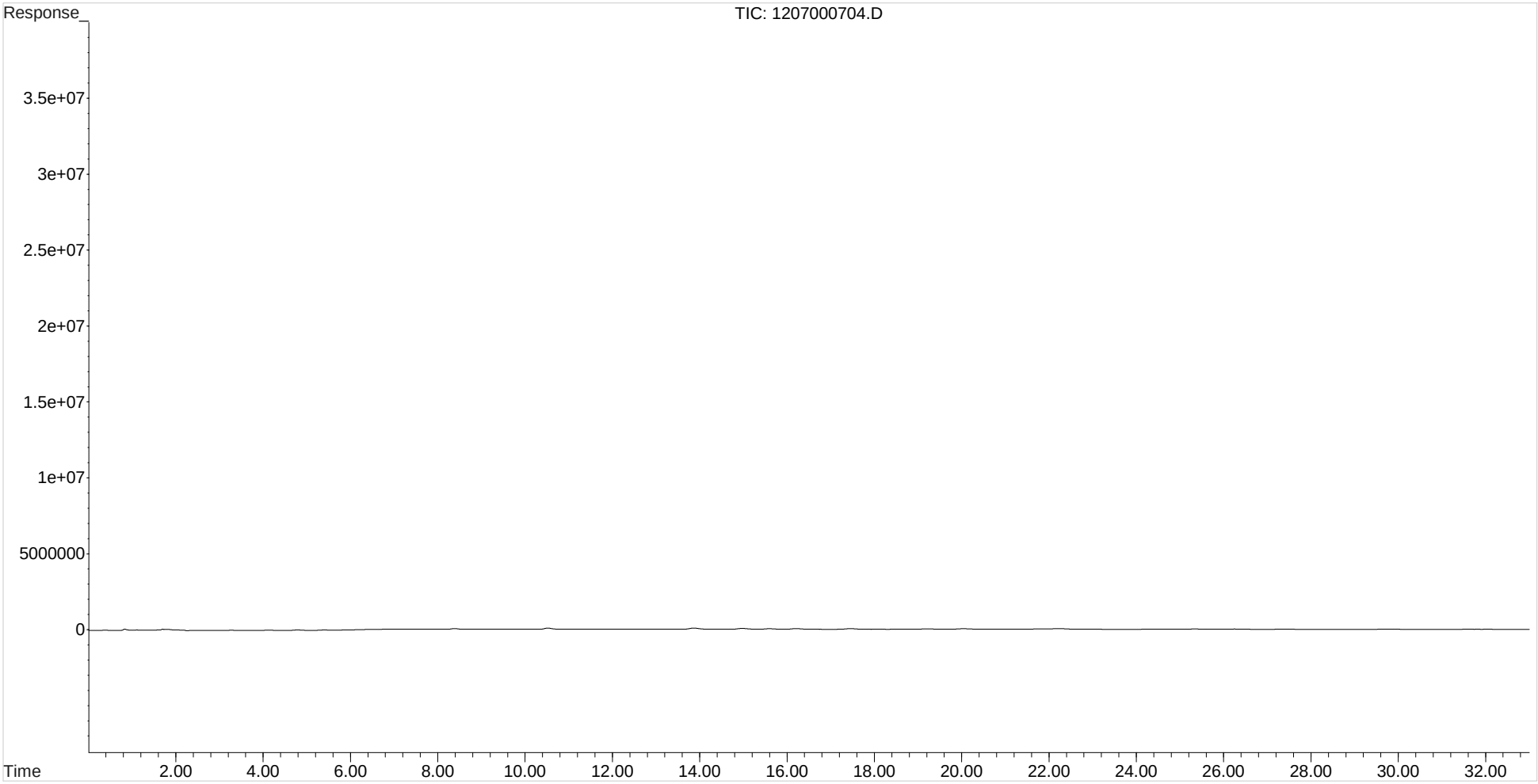
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 13:46:47 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

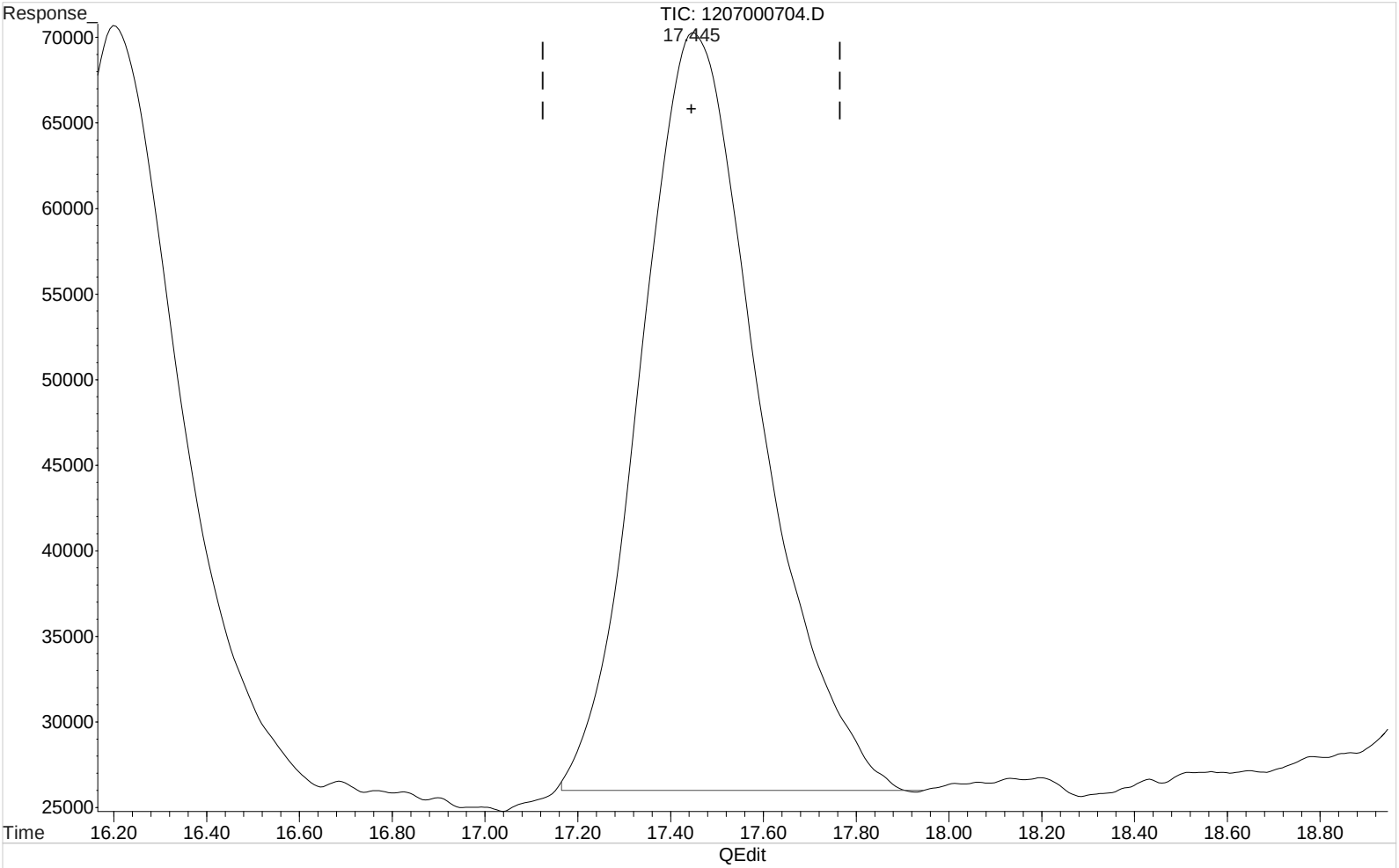


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(10) 2,4,6-TNT (T)

17.445min 0.000 ug/L

response 786868

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

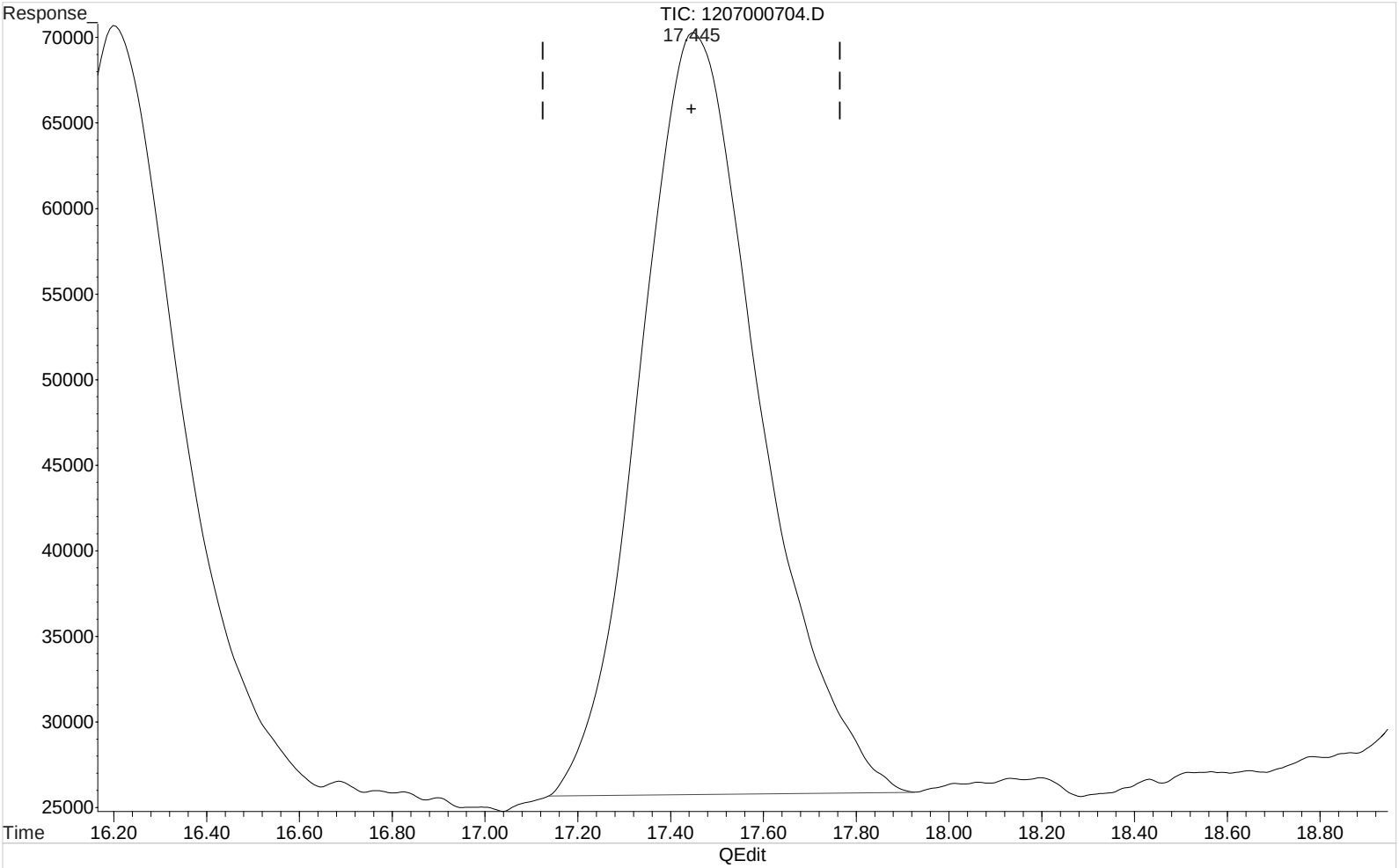
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(10) 2,4,6-TNT (T)

17.445min 0.000 ug/L m

response 797481

Manual Integration:

After

BLC

12/08/16

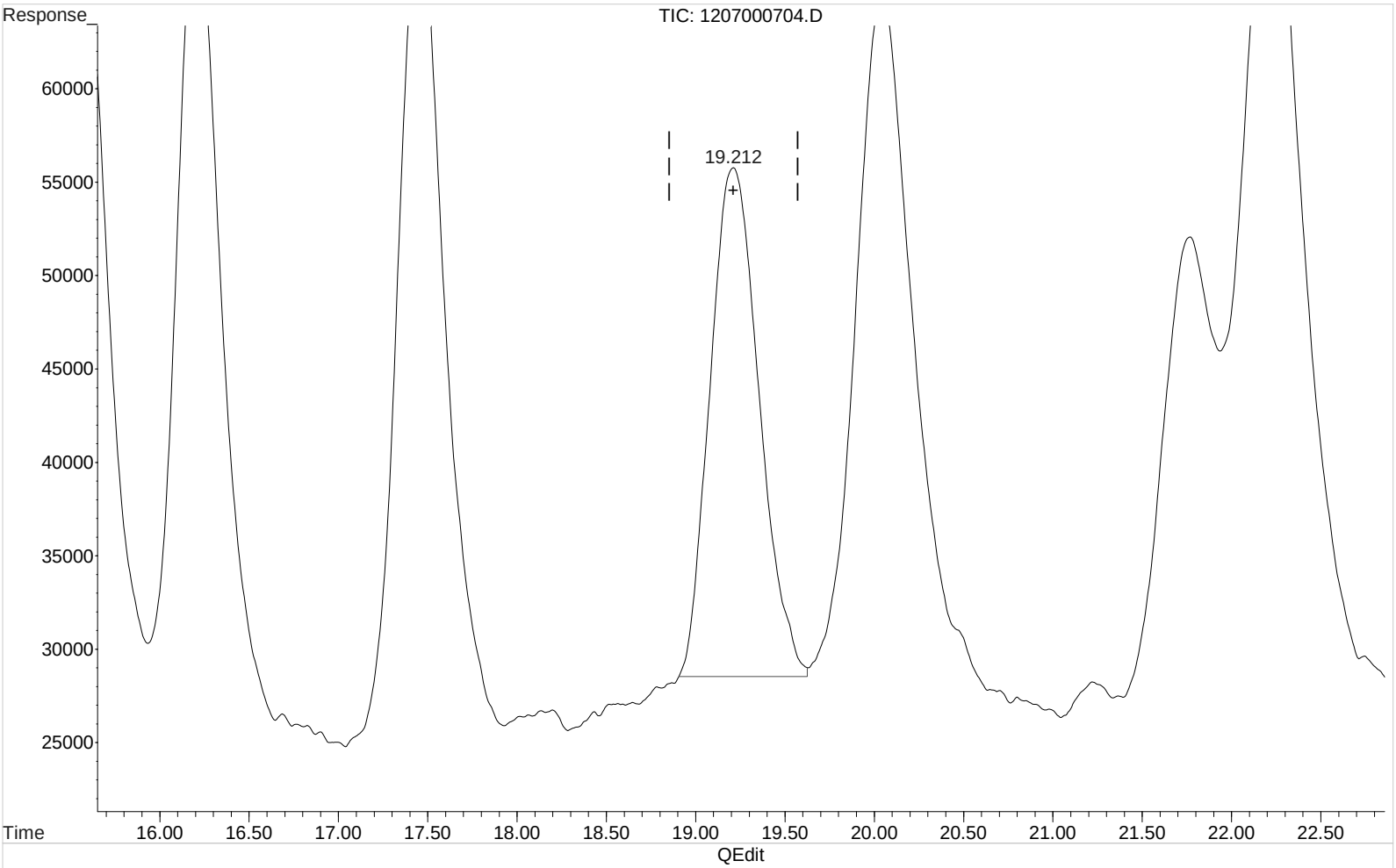
(+) = Expected Retention Time

(b) (6) /08/16 /09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(11) 4-Amino-2,6-DNT (T)

19.212min 0.000 ug/L

response 521042

Manual Integration:

Before

12/08/16

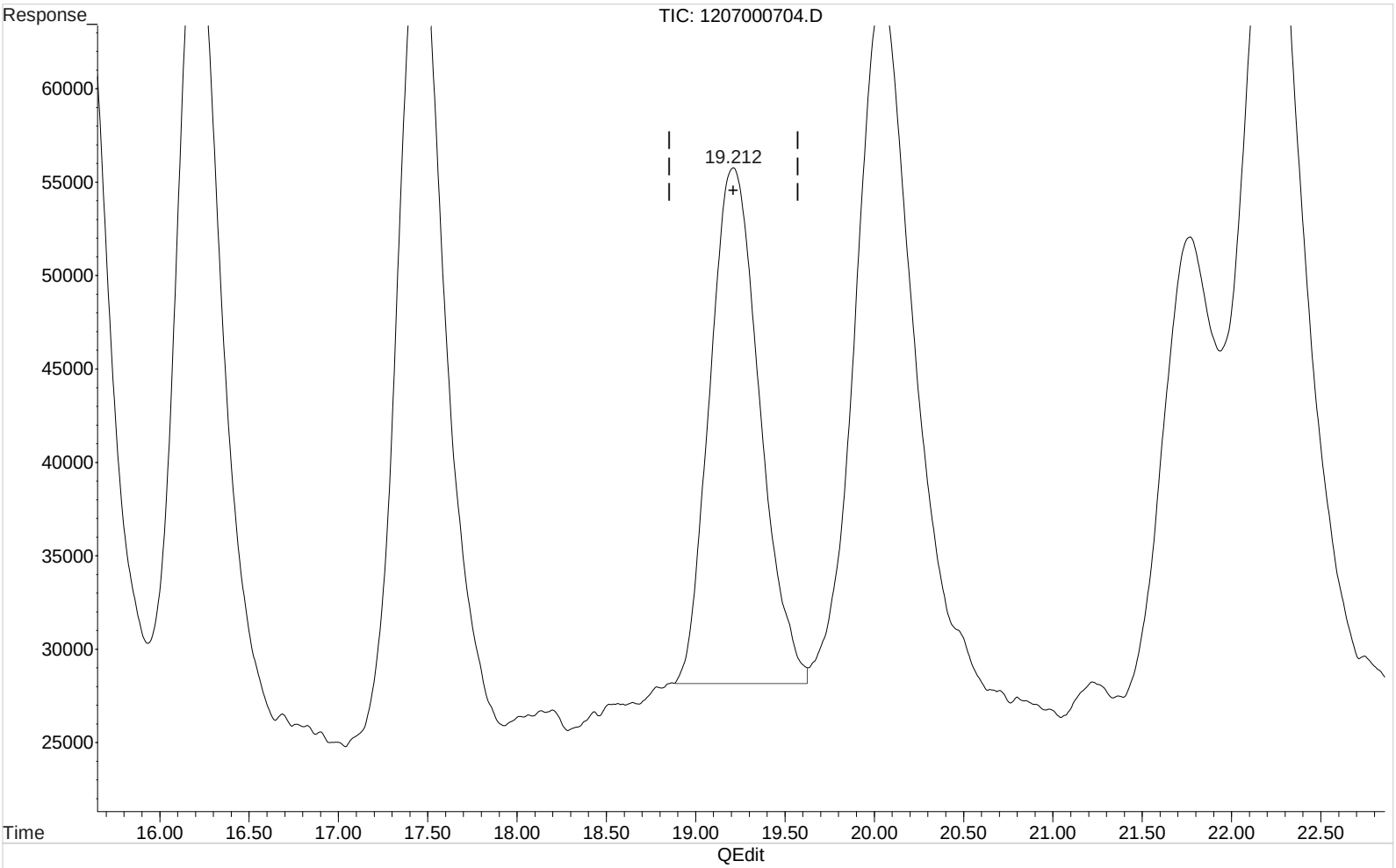
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(11) 4-Amino-2,6-DNT (T)

19.212min 0.000 ug/L m

response 537582

Manual Integration:

After

BLC

12/08/16

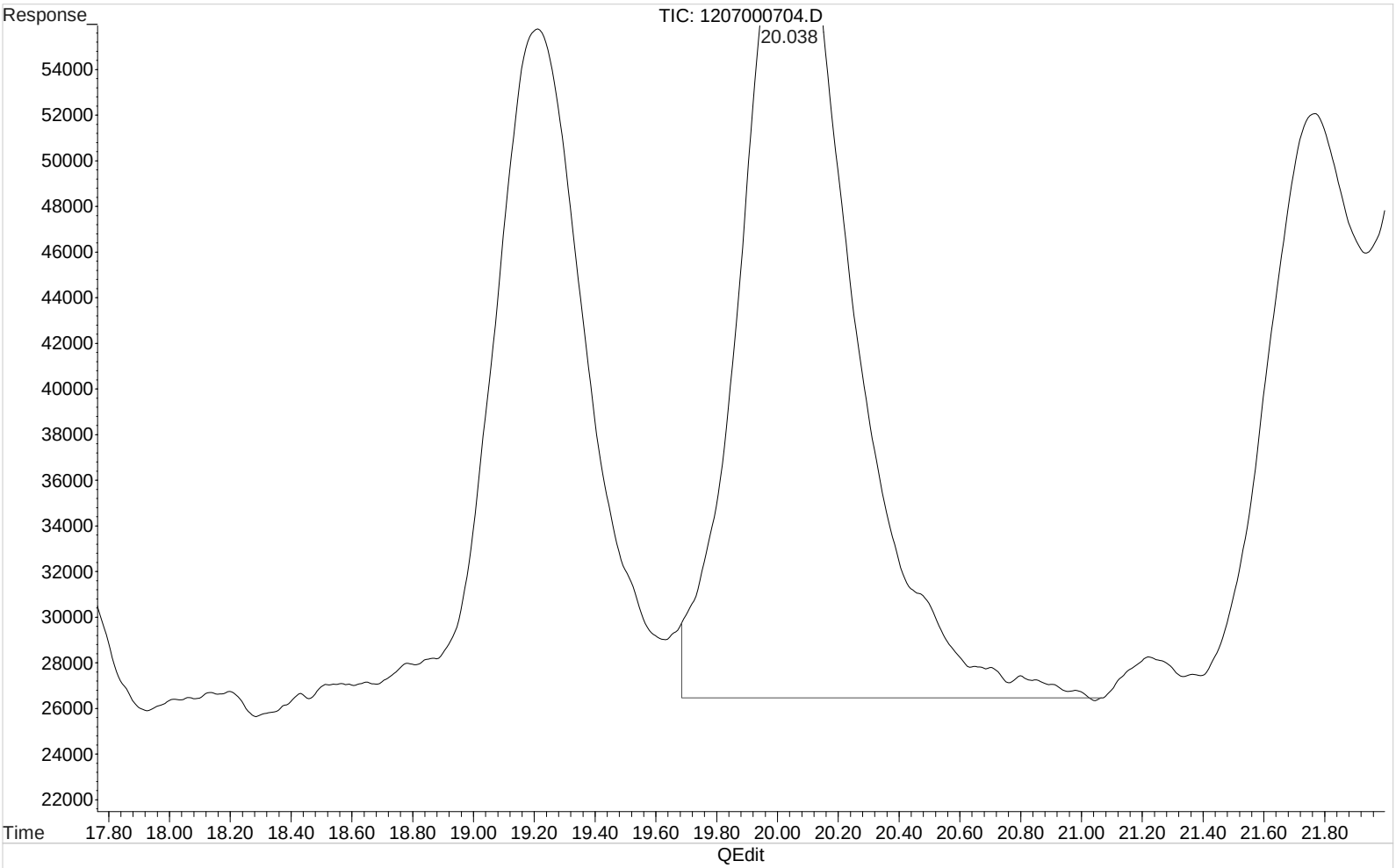
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(12) 2-Amino-4,6-DNT (T)

20.038min 0.000 ug/L

response 932740

Manual Integration:

Before

12/08/16

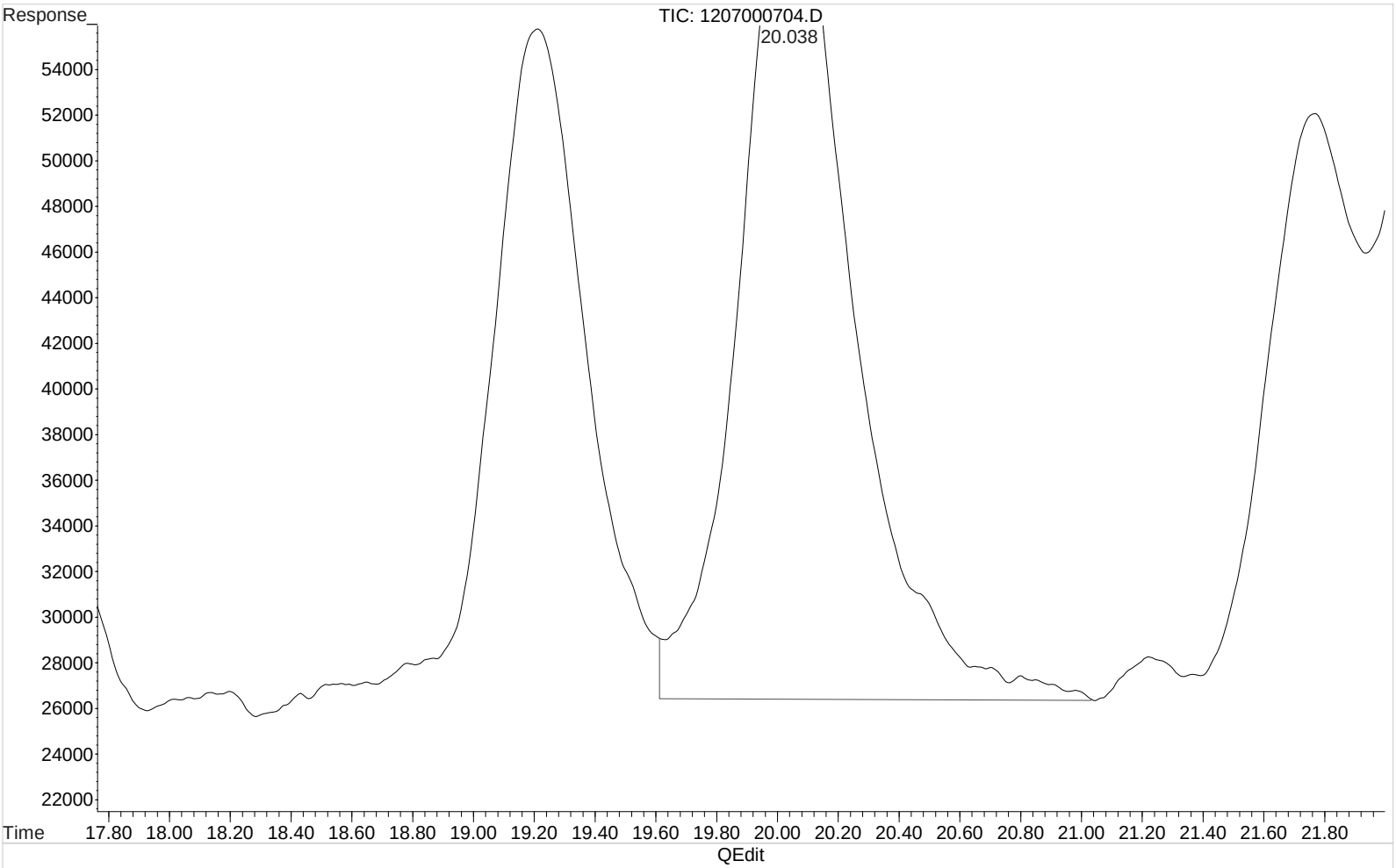
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(12) 2-Amino-4,6-DNT (T)

20.038min 0.000 ug/L m

response 951343

Manual Integration:

After

BLC

12/08/16

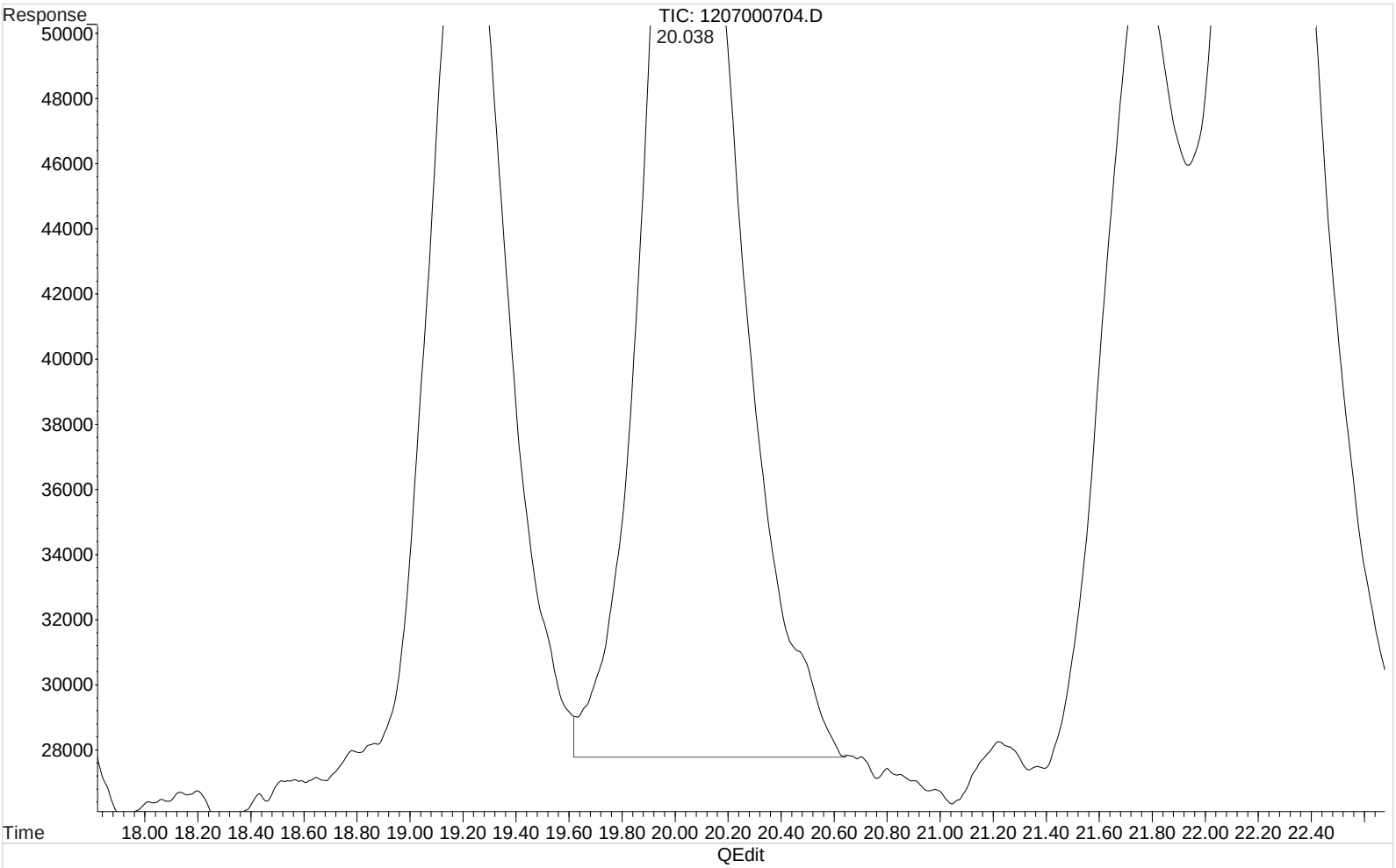
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:32:07 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(12) 2-Amino-4,6-DNT (T)

20.038min 0.000 ug/L m

response 846074

Manual Integration:

After

Baseline/Shoulder

12/08/16

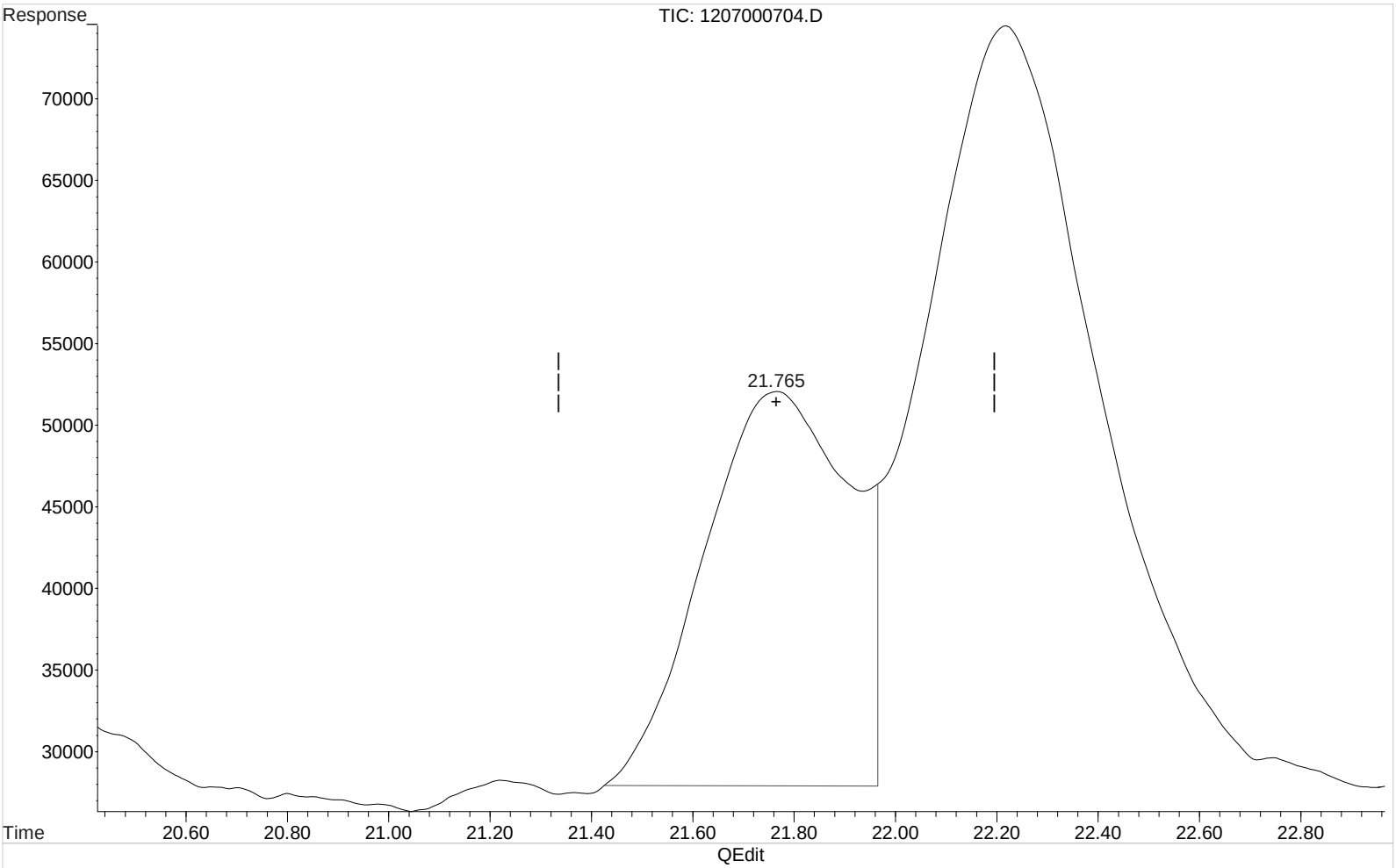
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.765min 0.000 ug/L

response 490736

Manual Integration:

Before

12/08/16

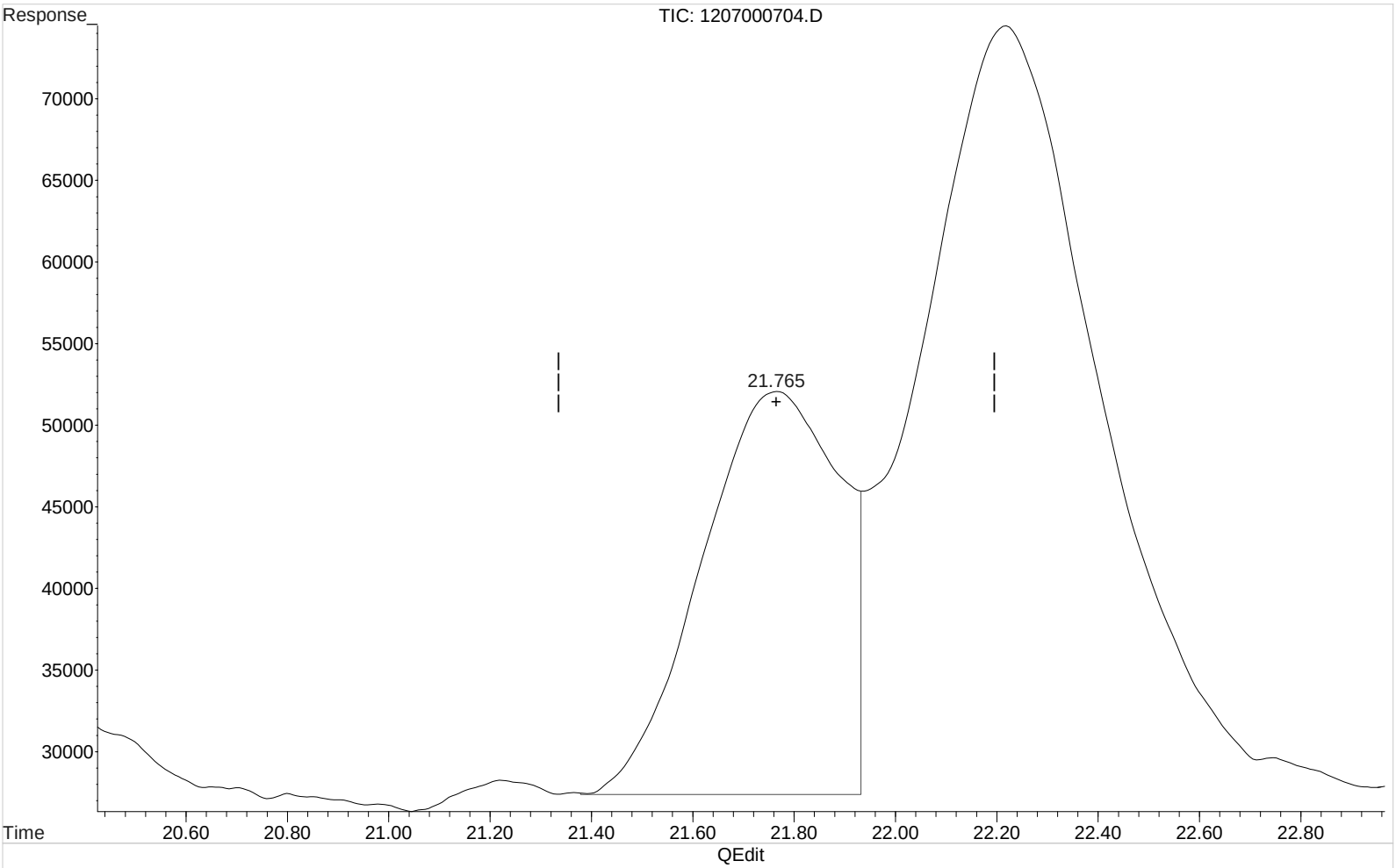
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.765min 0.000 ug/L m

response 470868

Manual Integration:

After

BLC

12/08/16

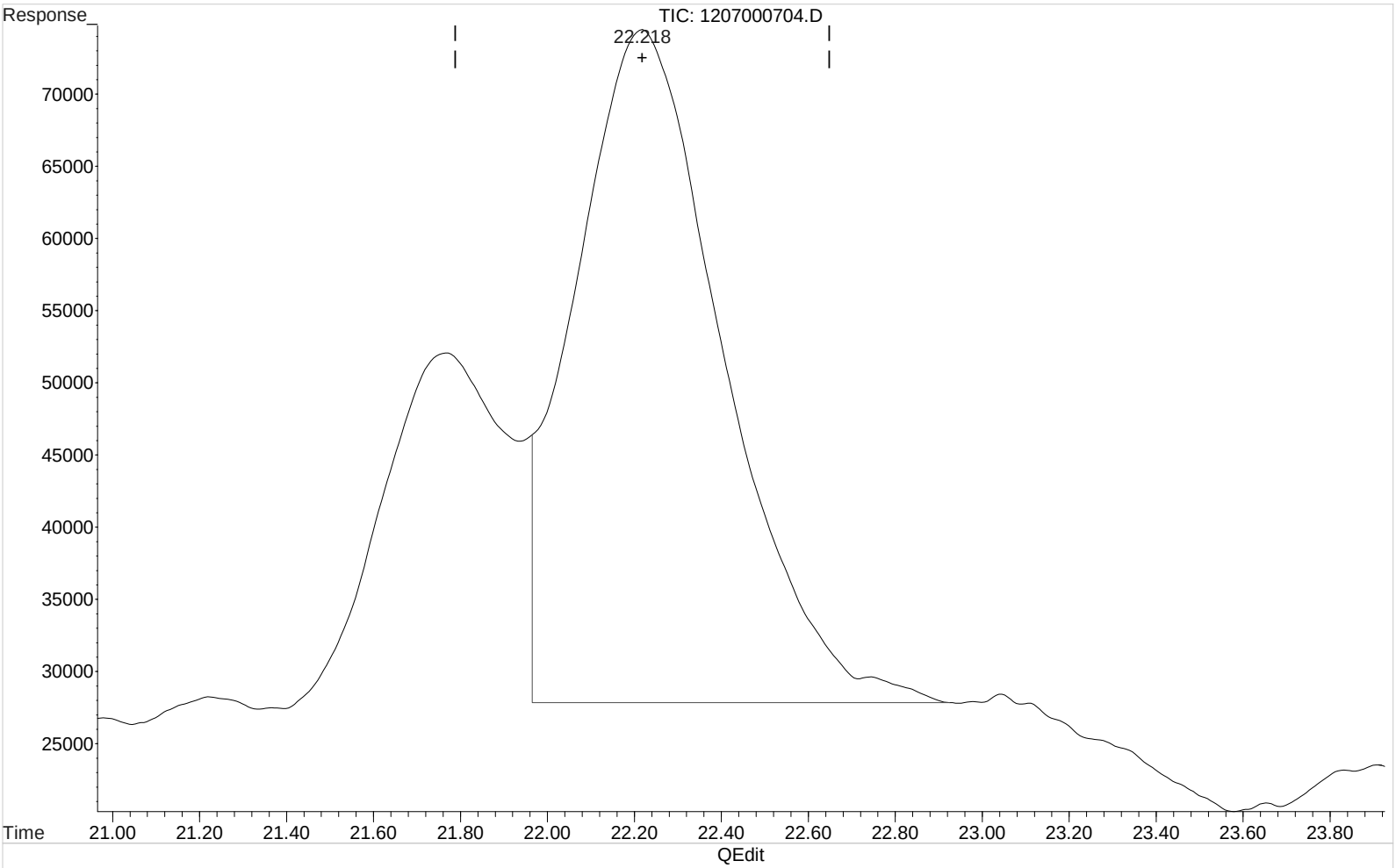
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.218min 0.000 ug/L

response 1110180

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

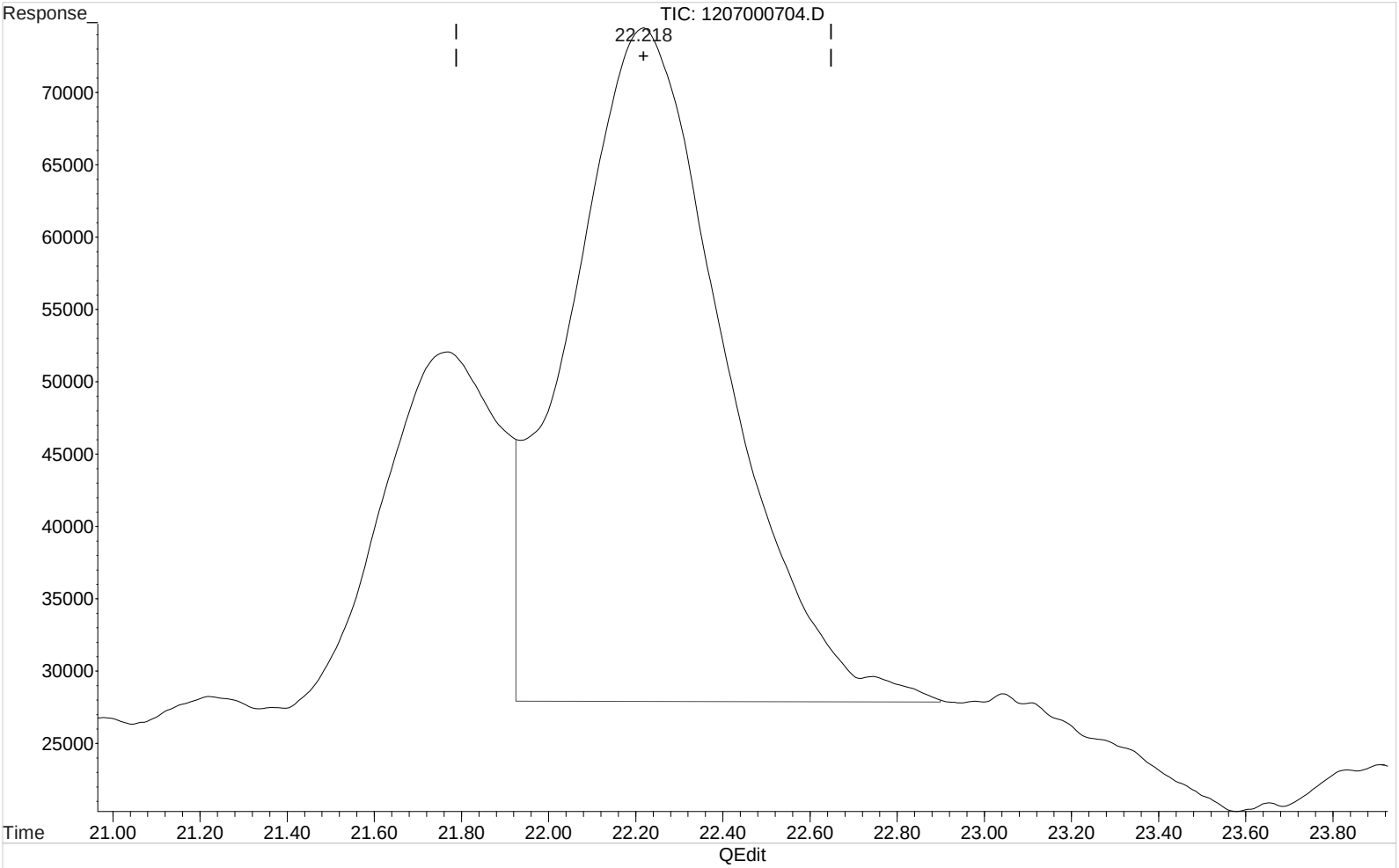
/08/16

/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.218min 0.000 ug/L m

response 1151614

Manual Integration:

After

BLC

12/08/16

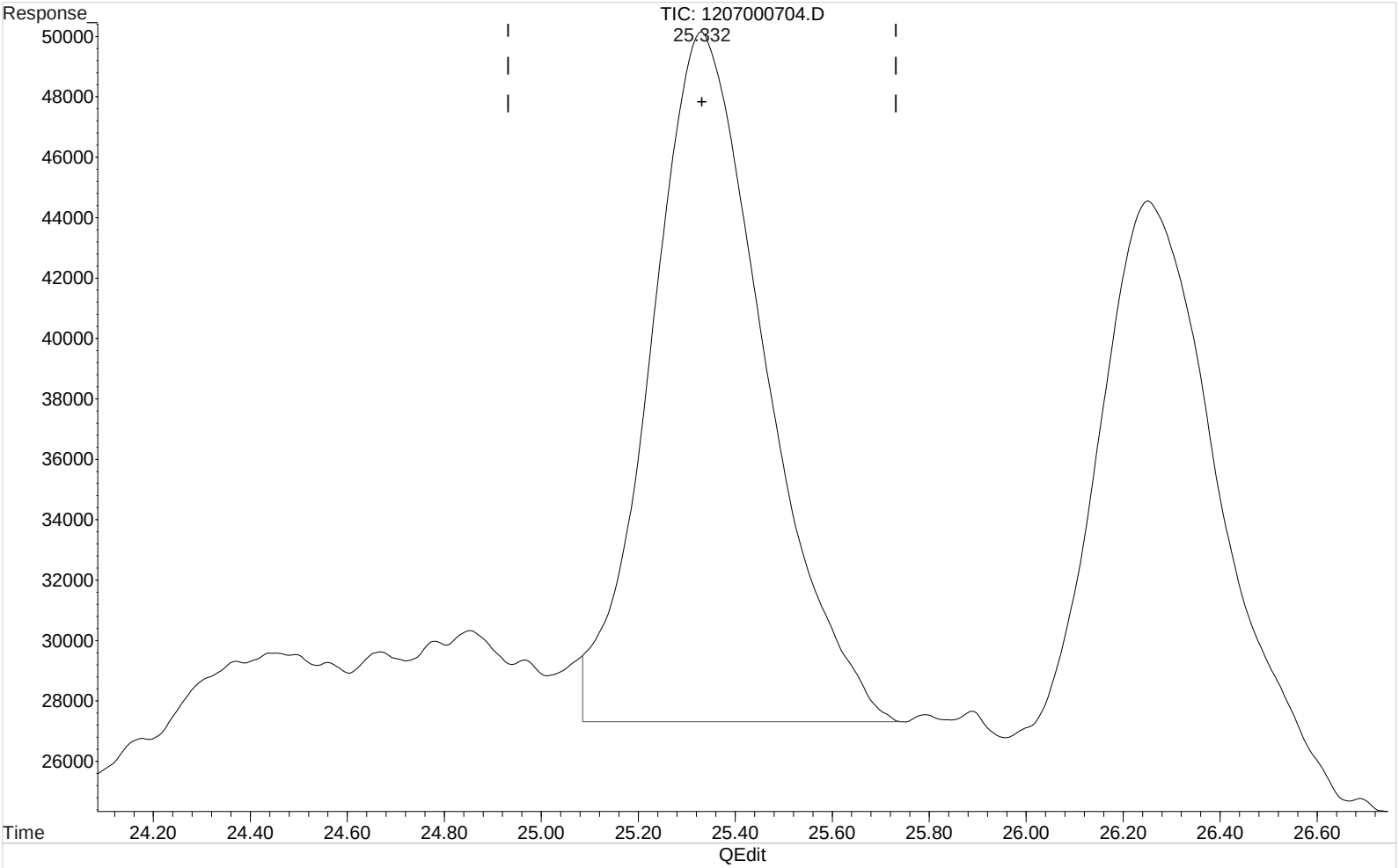
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.332min 0.000 ug/L

response 373720

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

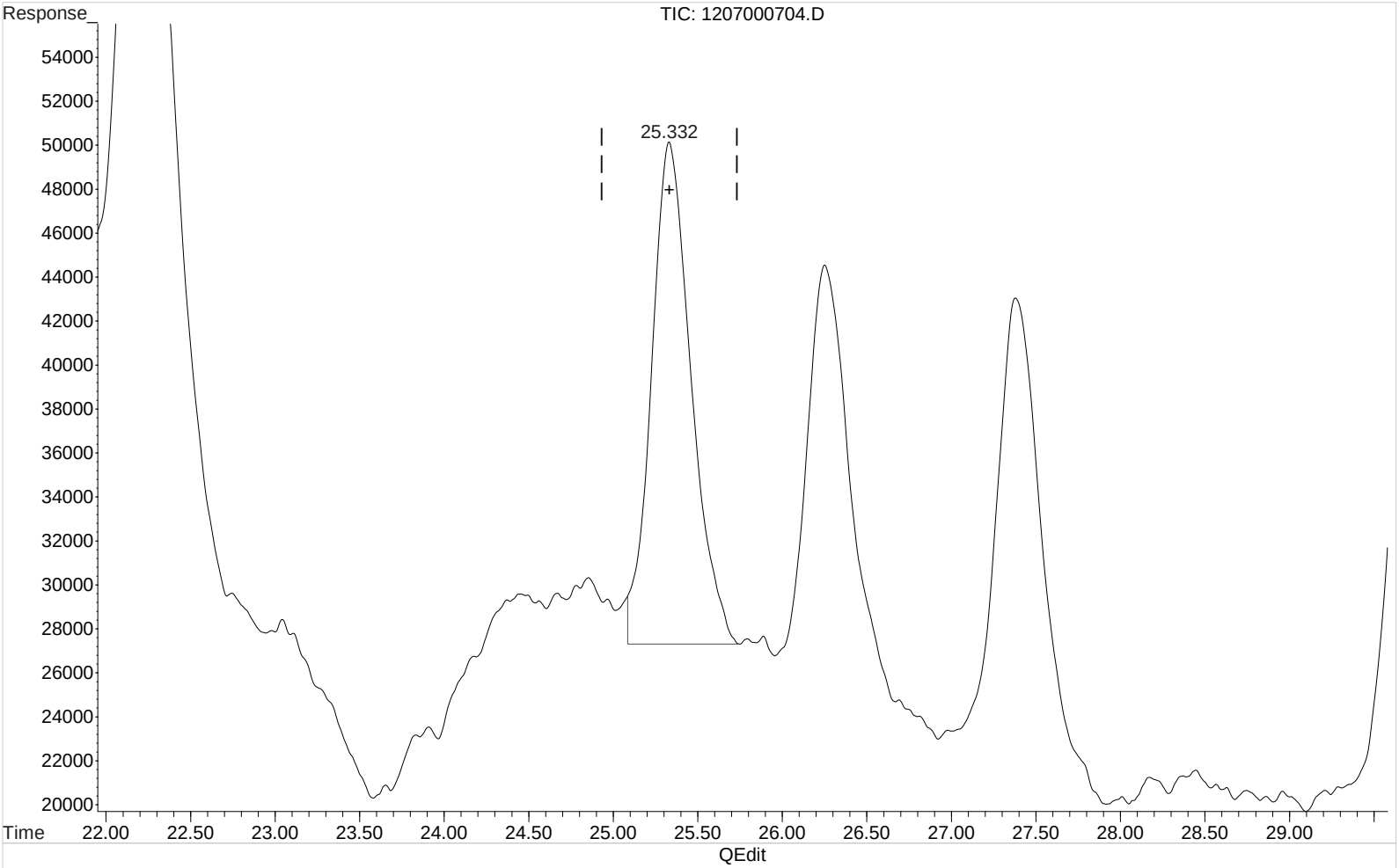
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.332min 0.000 ug/L

response 373720

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

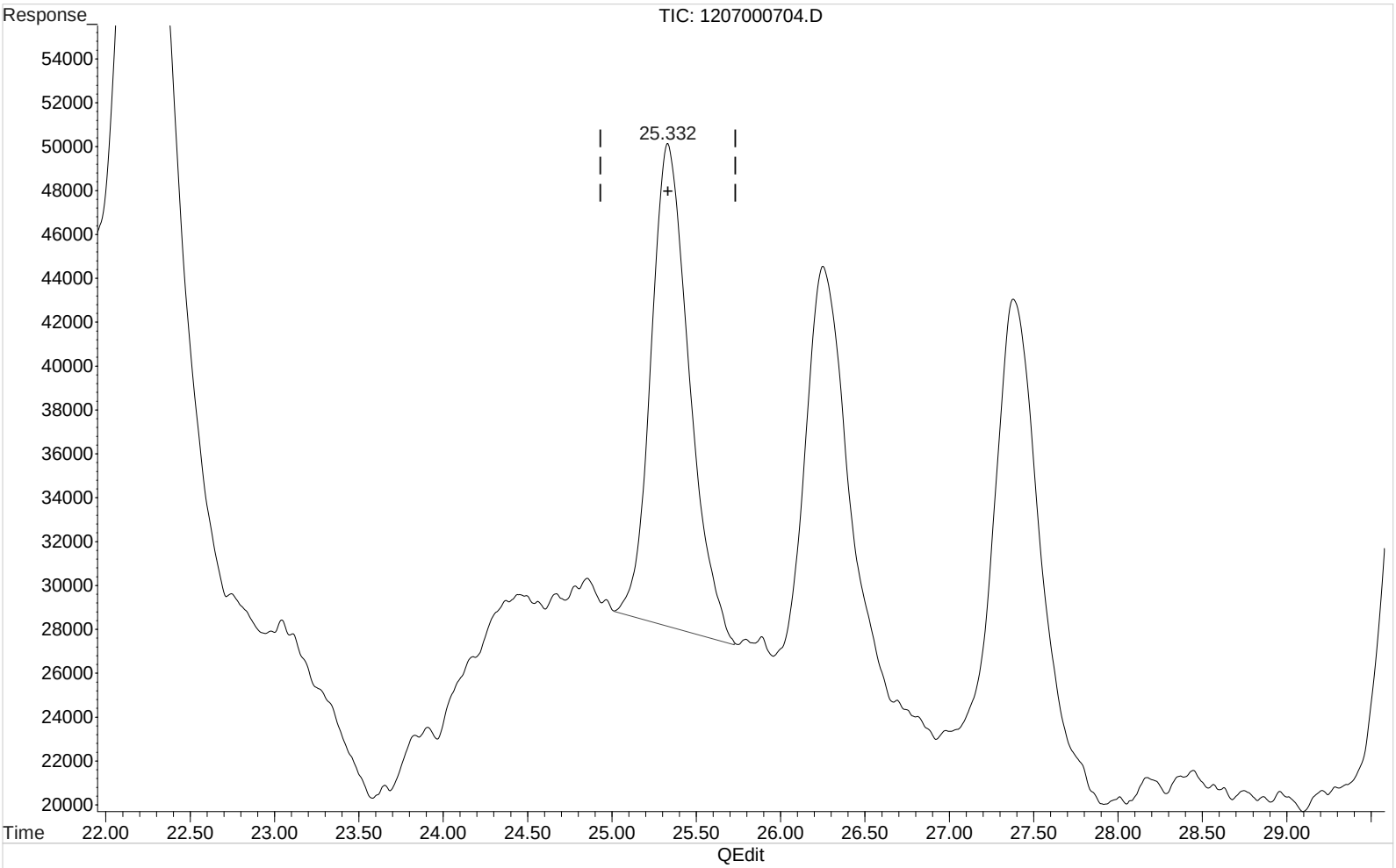
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.332min 0.000 ug/L m

response 349859

Manual Integration:

After

BLC

12/08/16

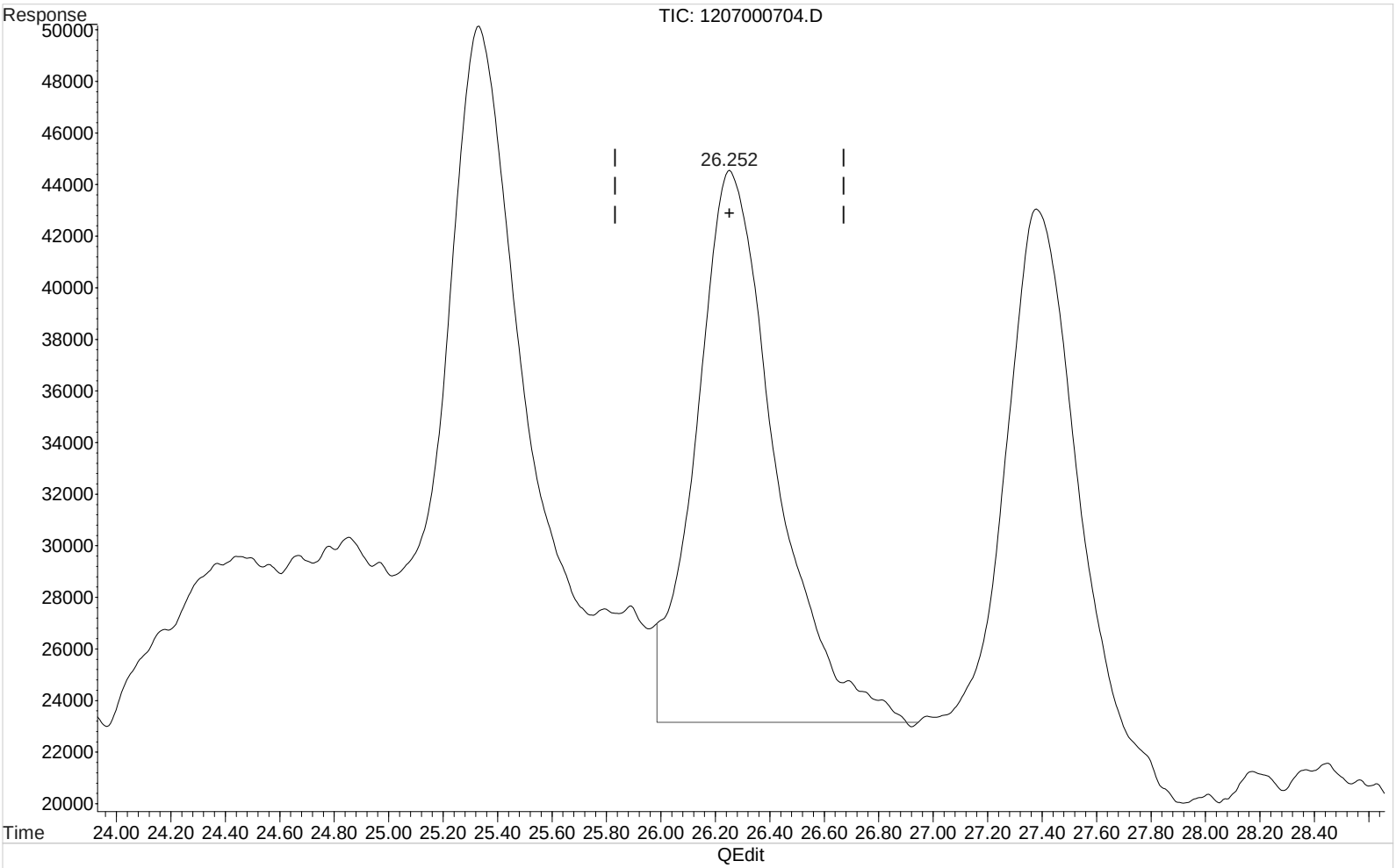
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.252min 0.000 ug/L

response 435478

Manual Integration:

Before

12/08/16

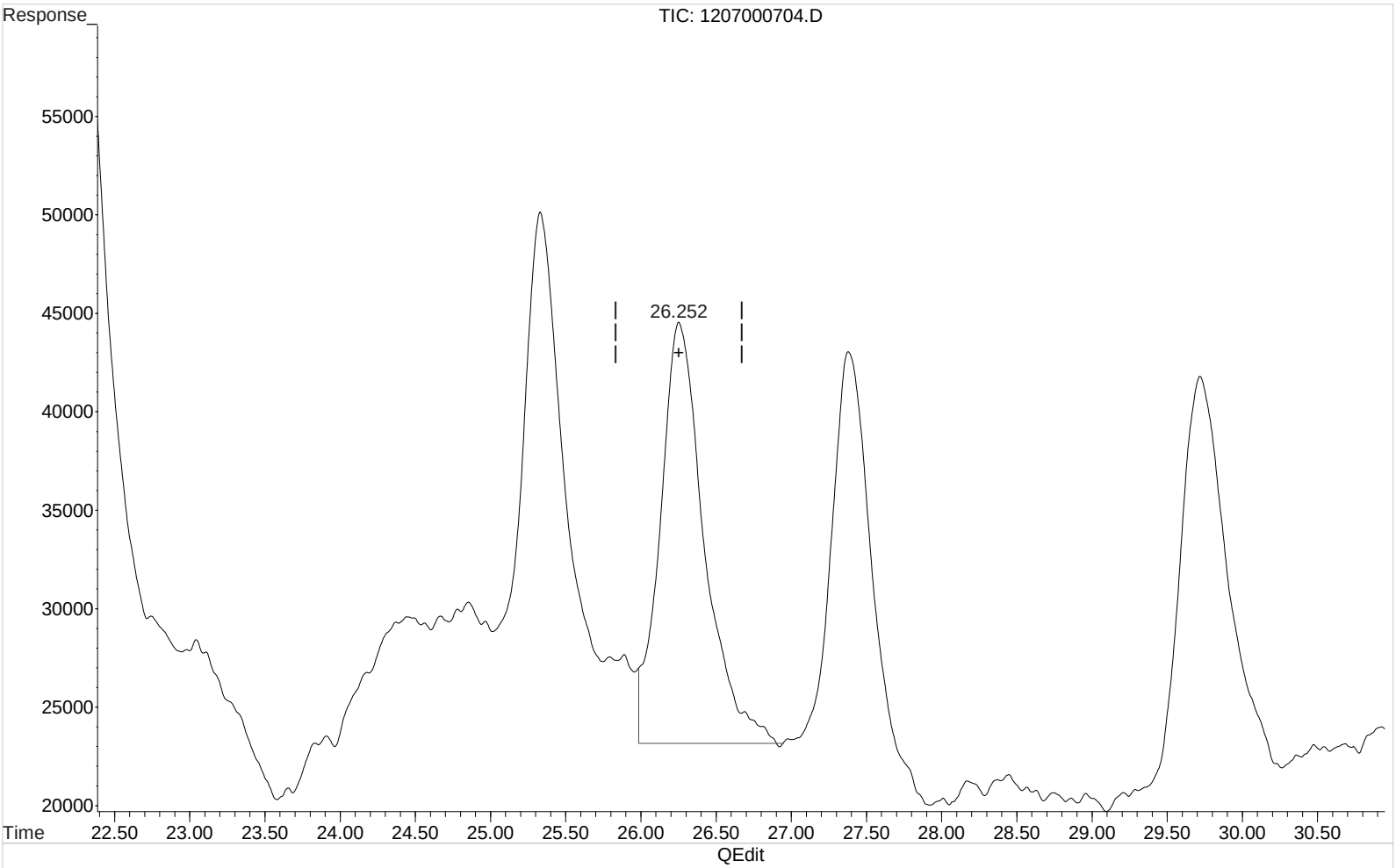
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.252min 0.000 ug/L

response 435478

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

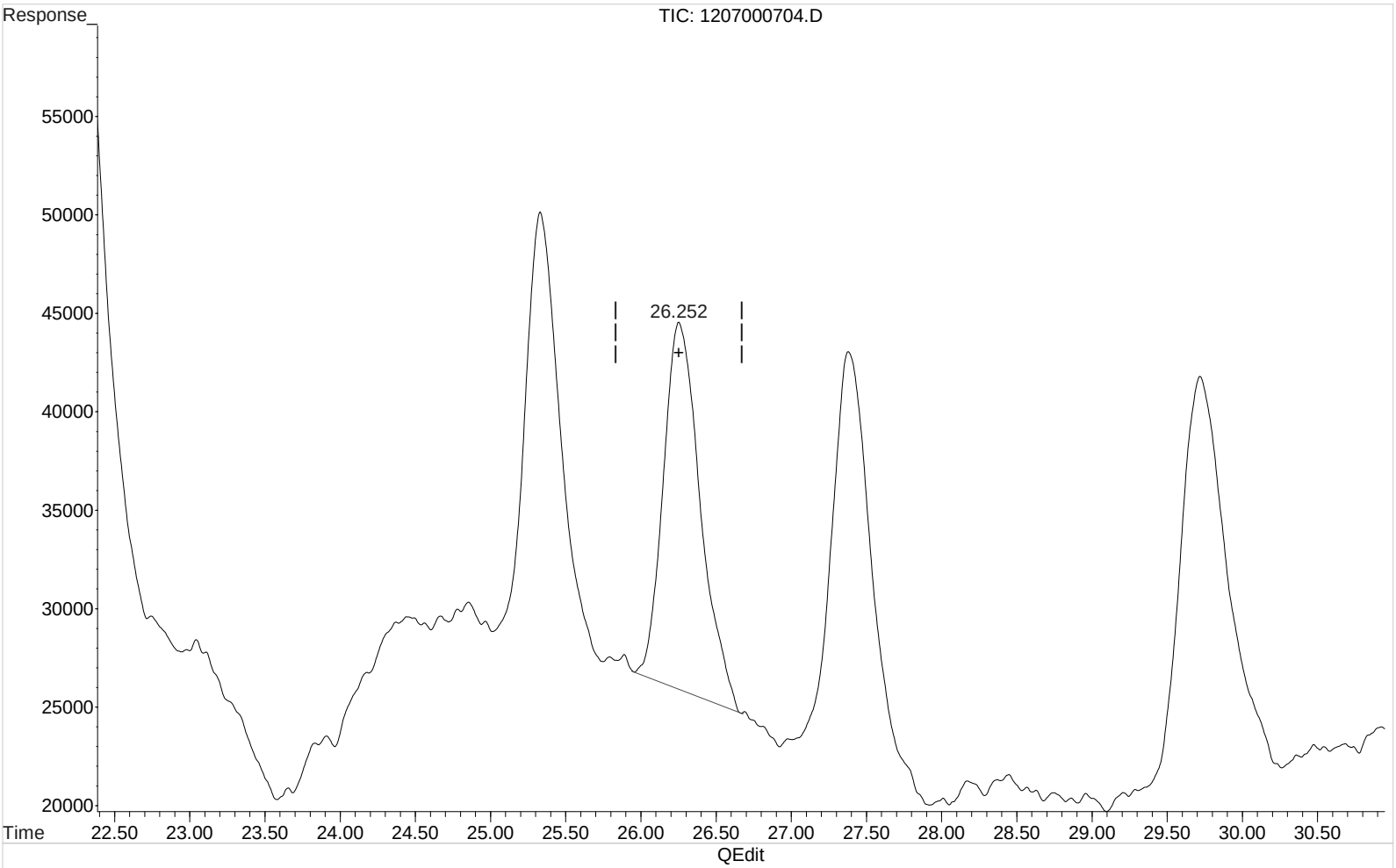
2/08/16

2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(16) 4-NT (T)

26.252min 0.000 ug/L m

response 319957

Manual Integration:

After

BLC

12/08/16

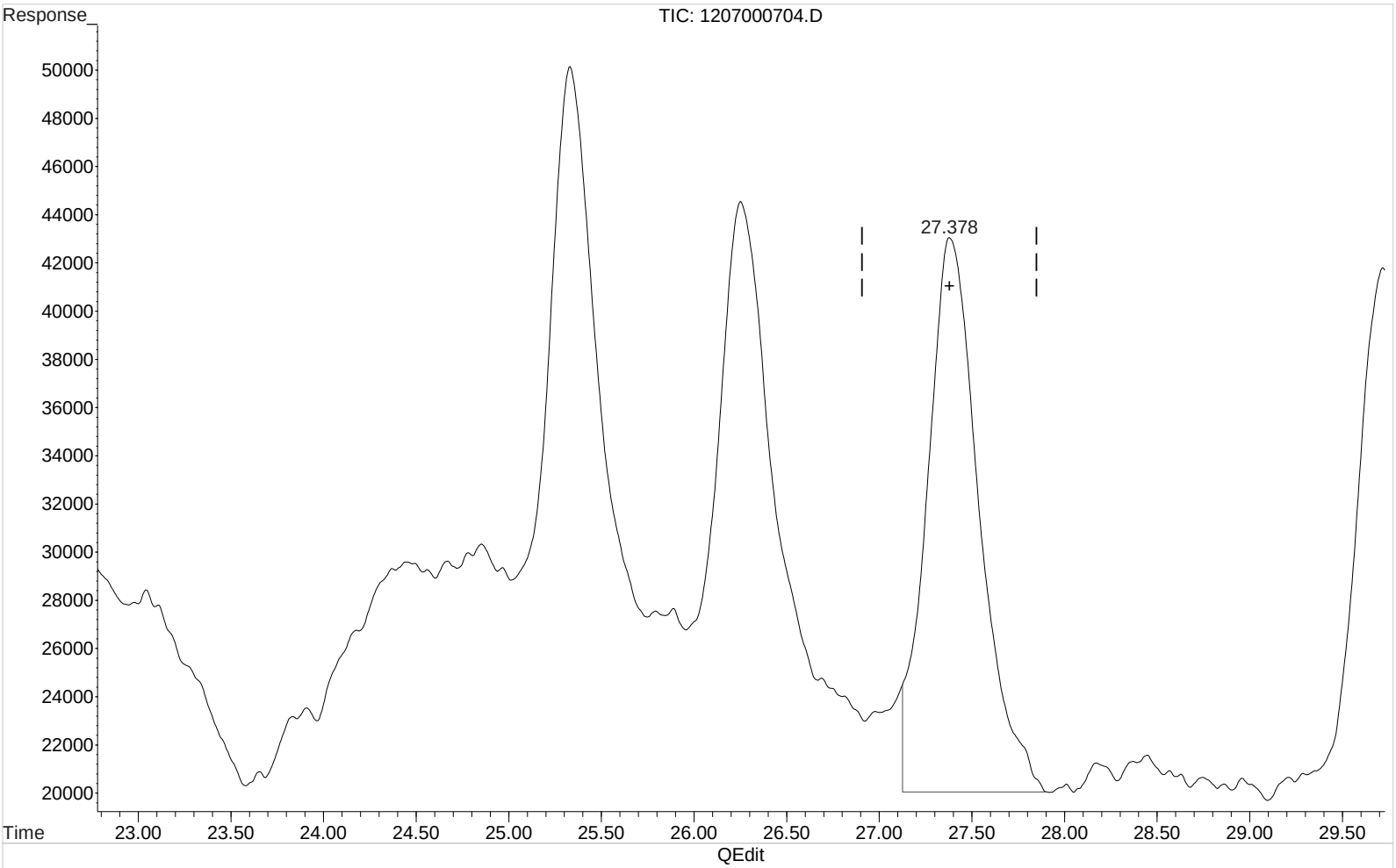
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.378min 0.000 ug/L

response 452684

Manual Integration:

Before

12/08/16

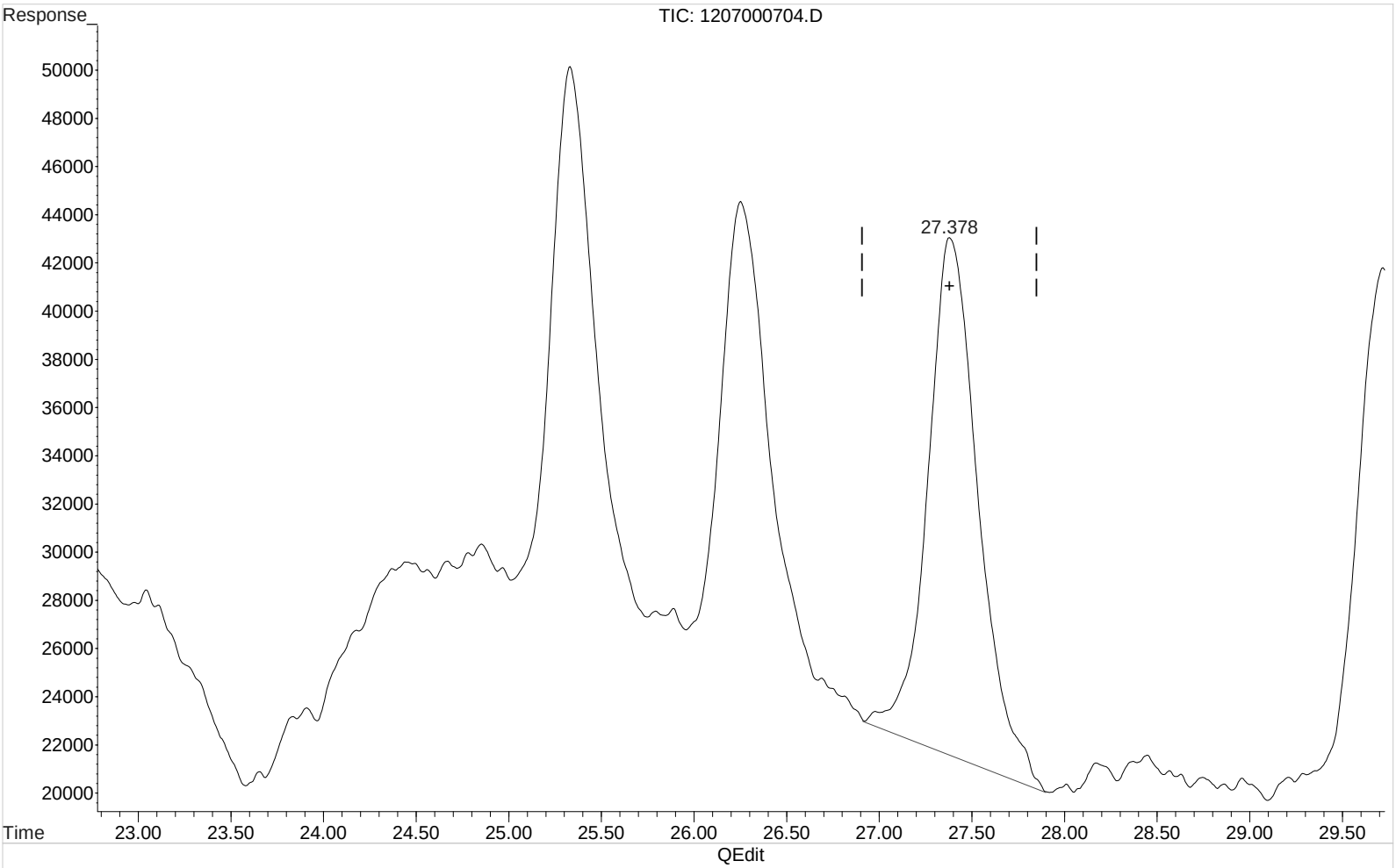
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.378min 0.000 ug/L m

response 411159

Manual Integration:

After

BLC

12/08/16

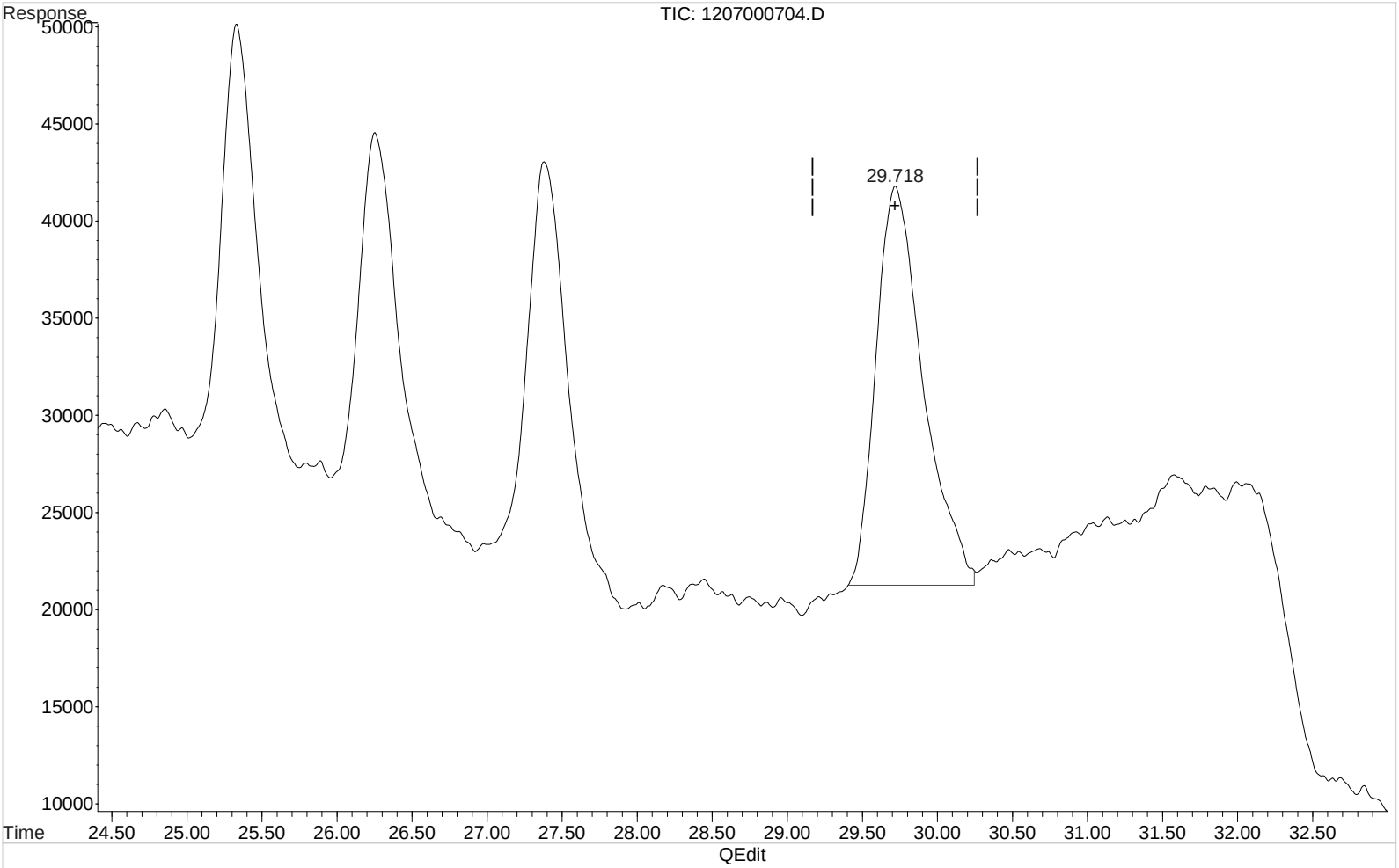
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(18) 1-Chloro-3-Nitrobenzene (S)

29.718min 0.000 ug/L

response 448530

Manual Integration:

Before

12/08/16

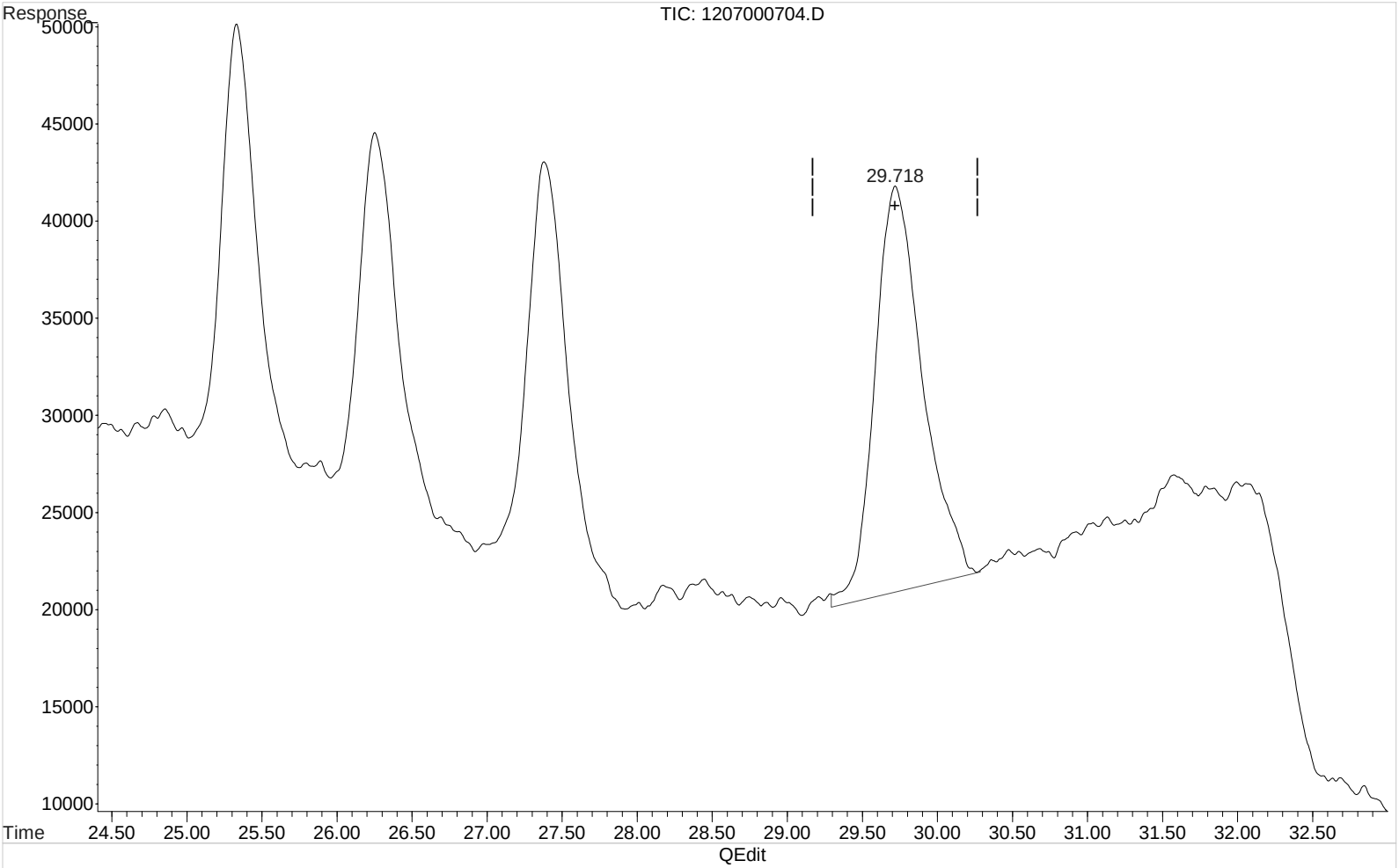
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(18) 1-Chloro-3-Nitrobenzene (S)

29.718min 0.000 ug/L m

response 461332

Manual Integration:

After

BLC

12/08/16

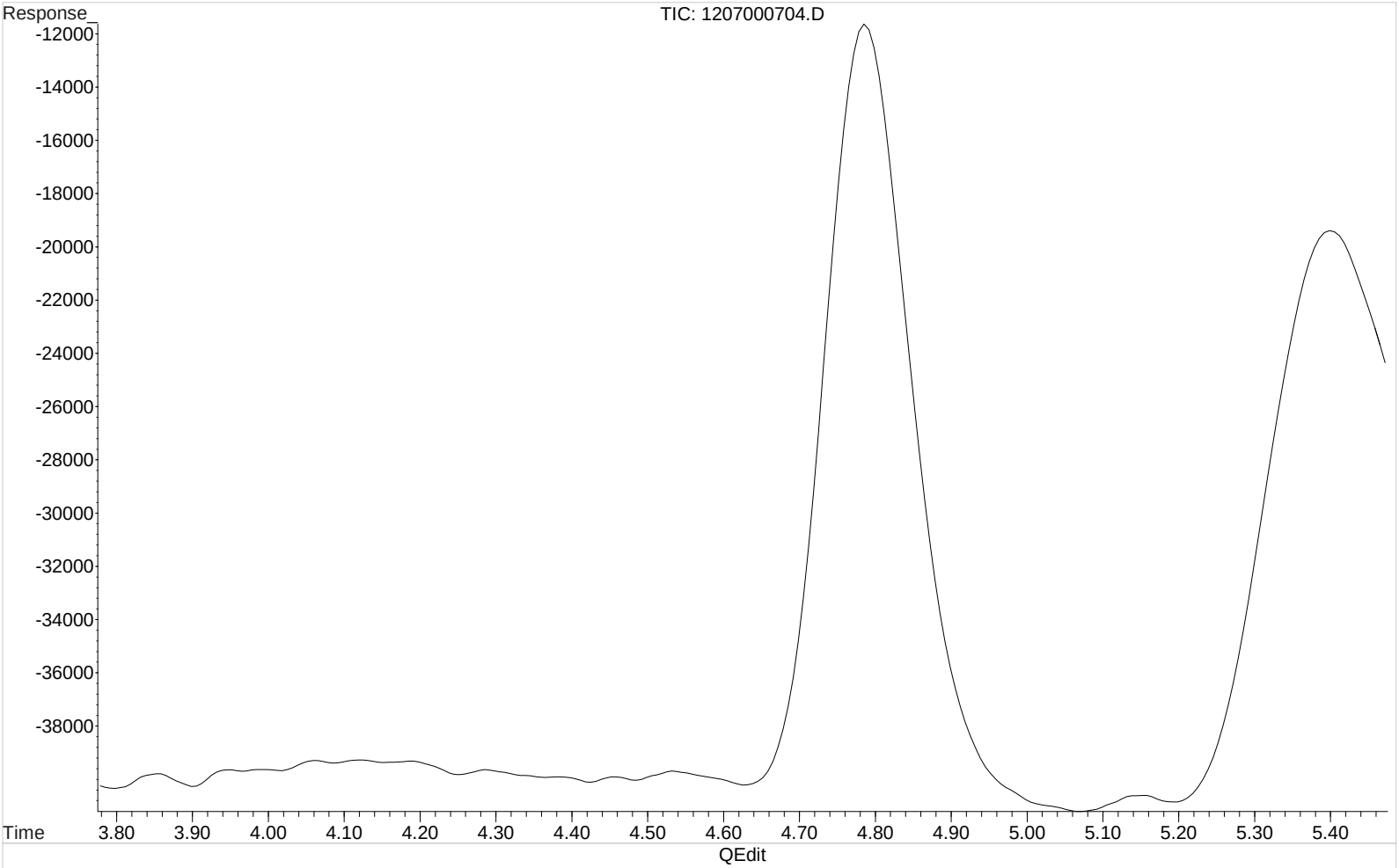
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(2) HMX (T)

4.625min 0.000 ug/L

response 0

Manual Integration:

Before

12/08/16

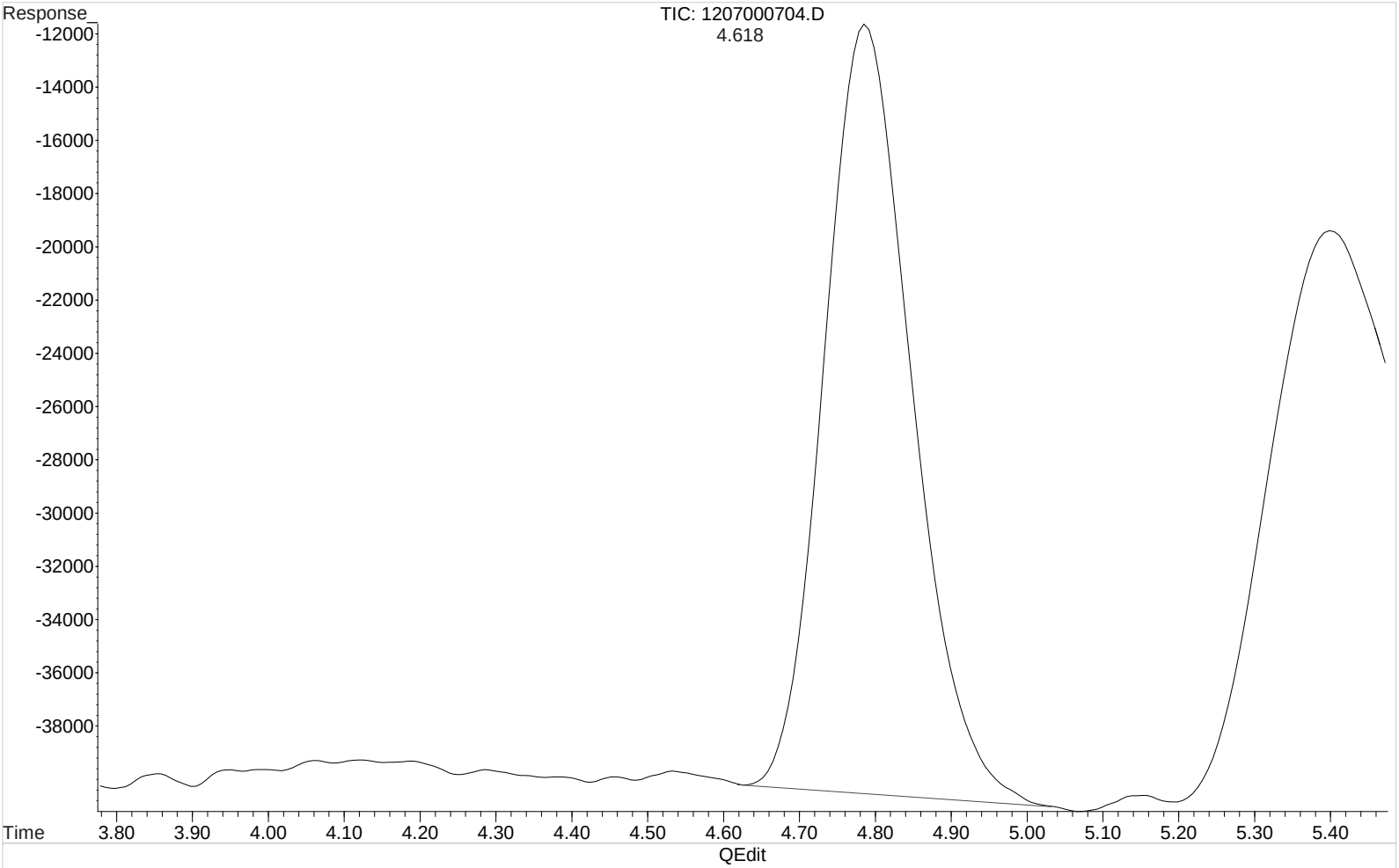
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(2) HMX (T)

4.618min 0.000 ug/L m

response 232698

Manual Integration:

After

BLC

12/08/16

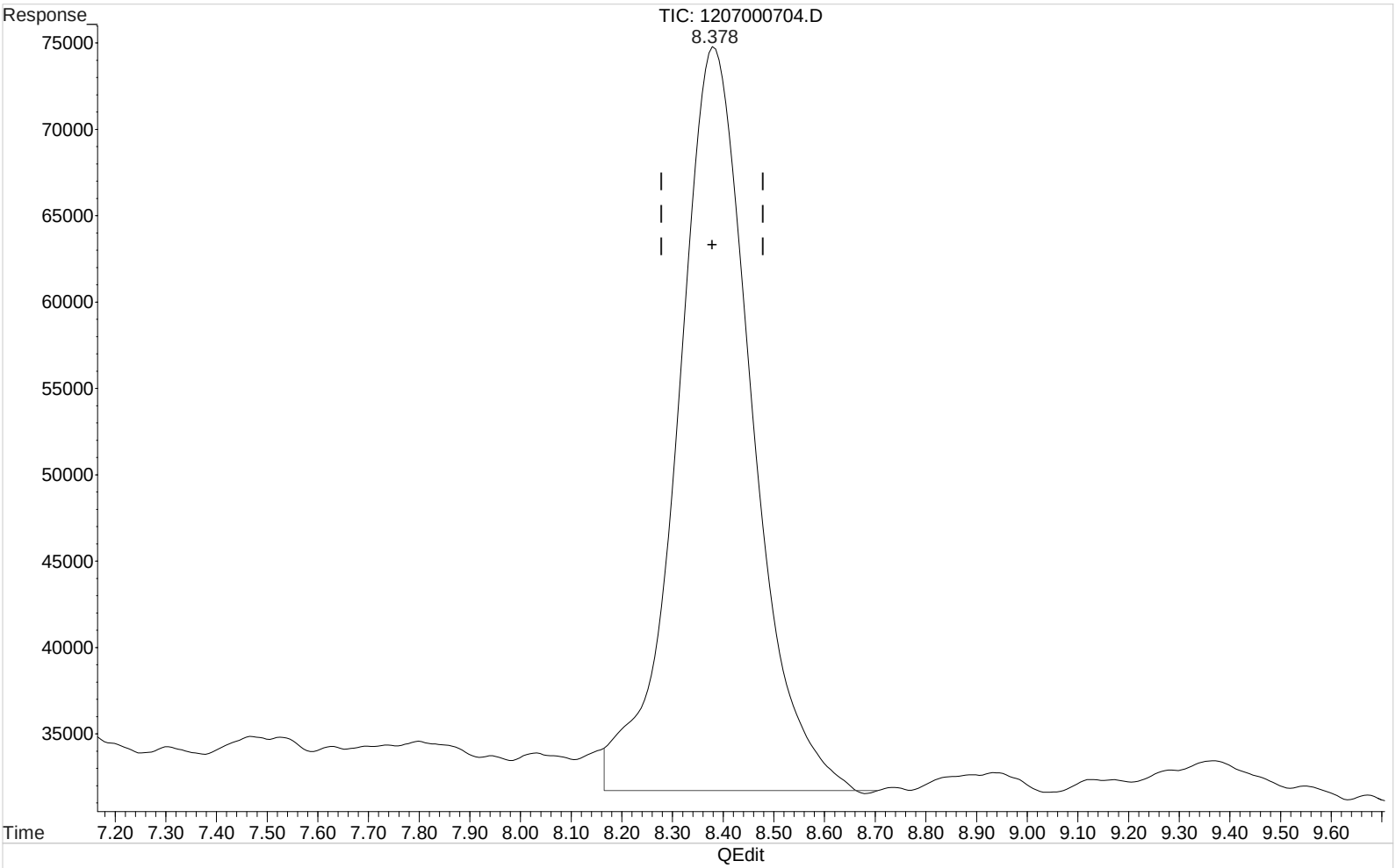
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(4) RDX (T)

8.378min 0.000 ug/L

response 440014

Manual Integration:

Before

12/08/16

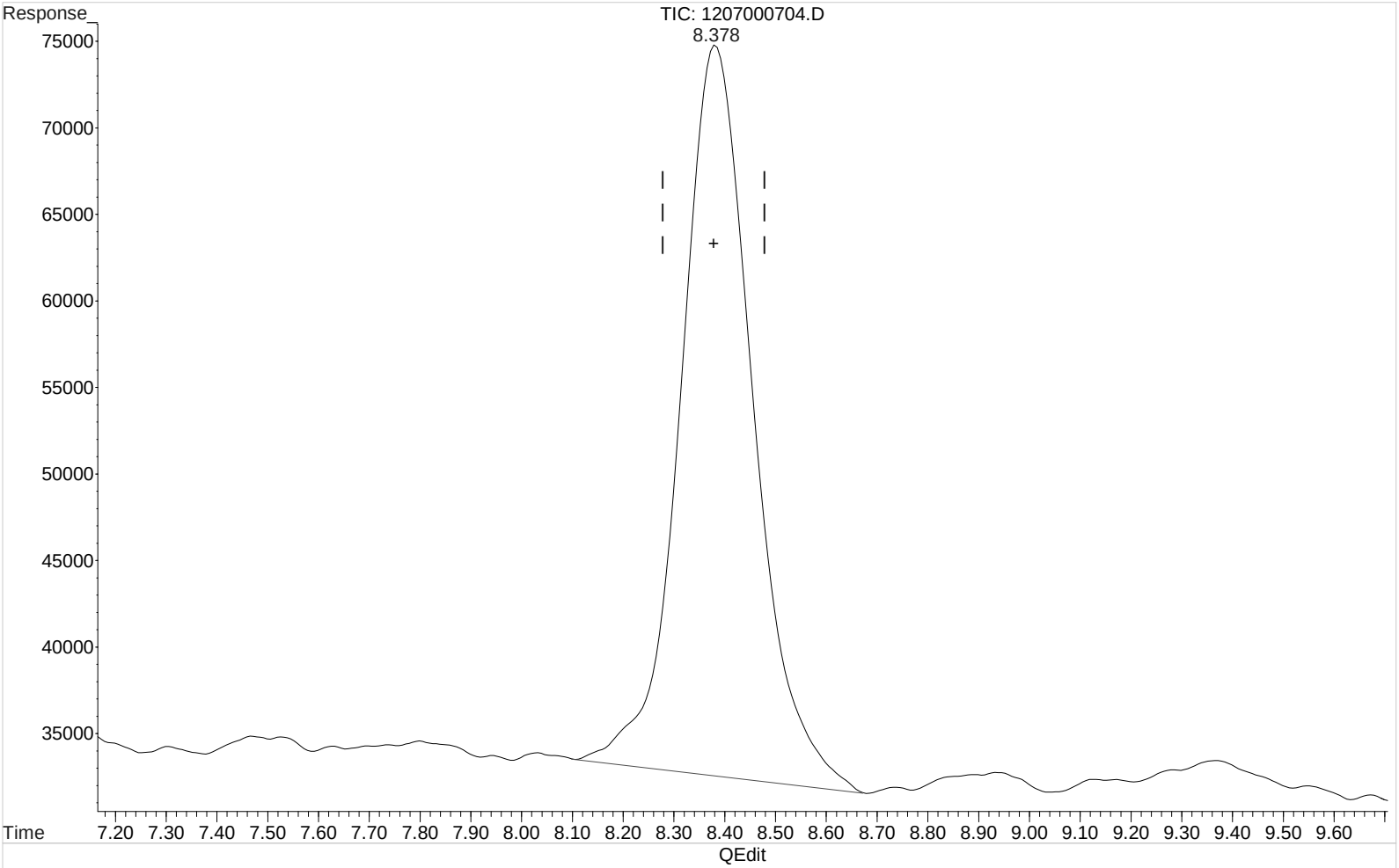
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(4) RDX (T)

8.378min 0.000 ug/L m

response 420328

Manual Integration:

After

BLC

12/08/16

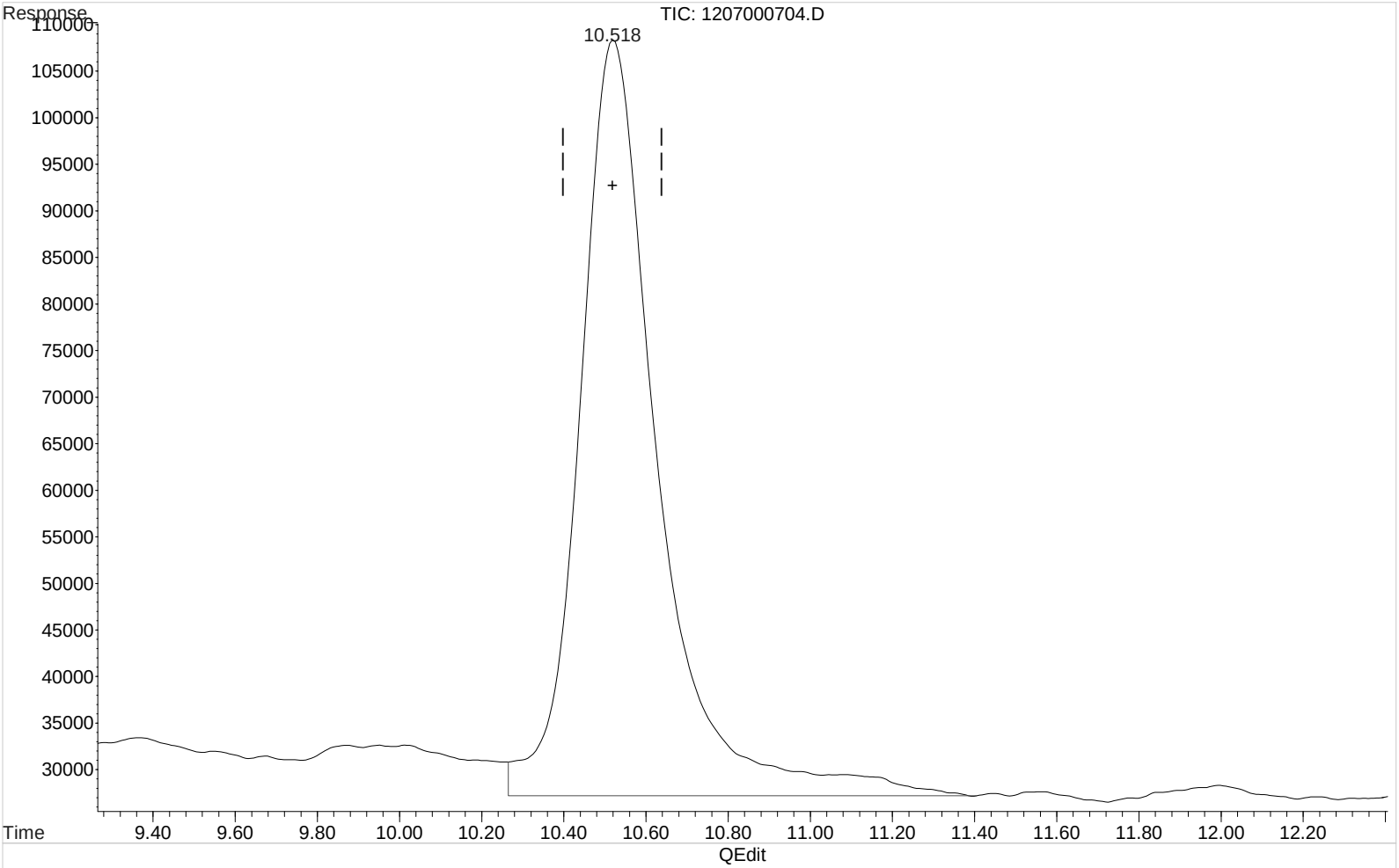
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(5) 1,3,5-TNB (T)

10.518min 0.000 ug/L

response 1075873

Manual Integration:

Before

12/08/16

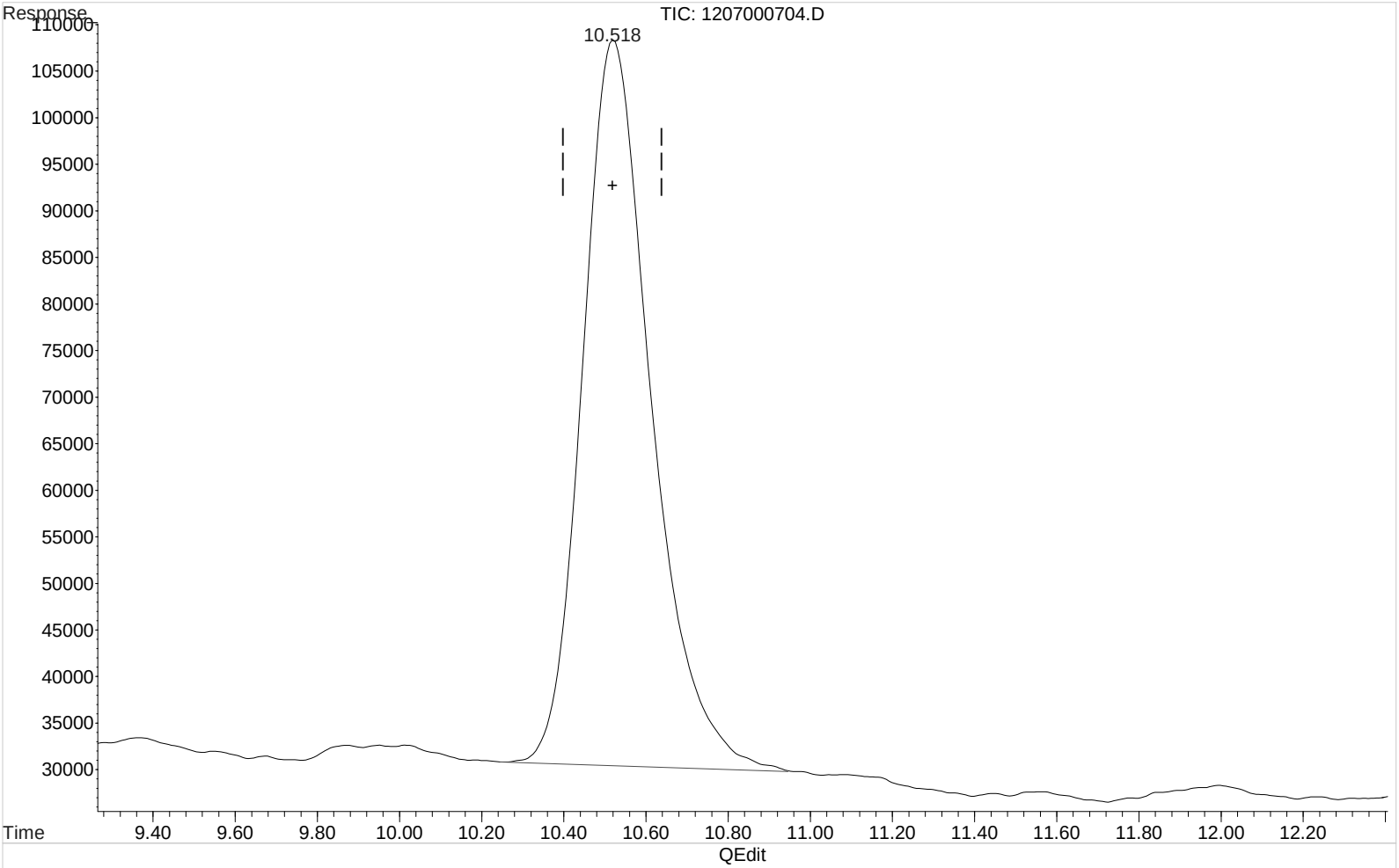
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(5) 1,3,5-TNB (T)

10.518min 0.000 ug/L m

response 908690

Manual Integration:

After

BLC

12/08/16

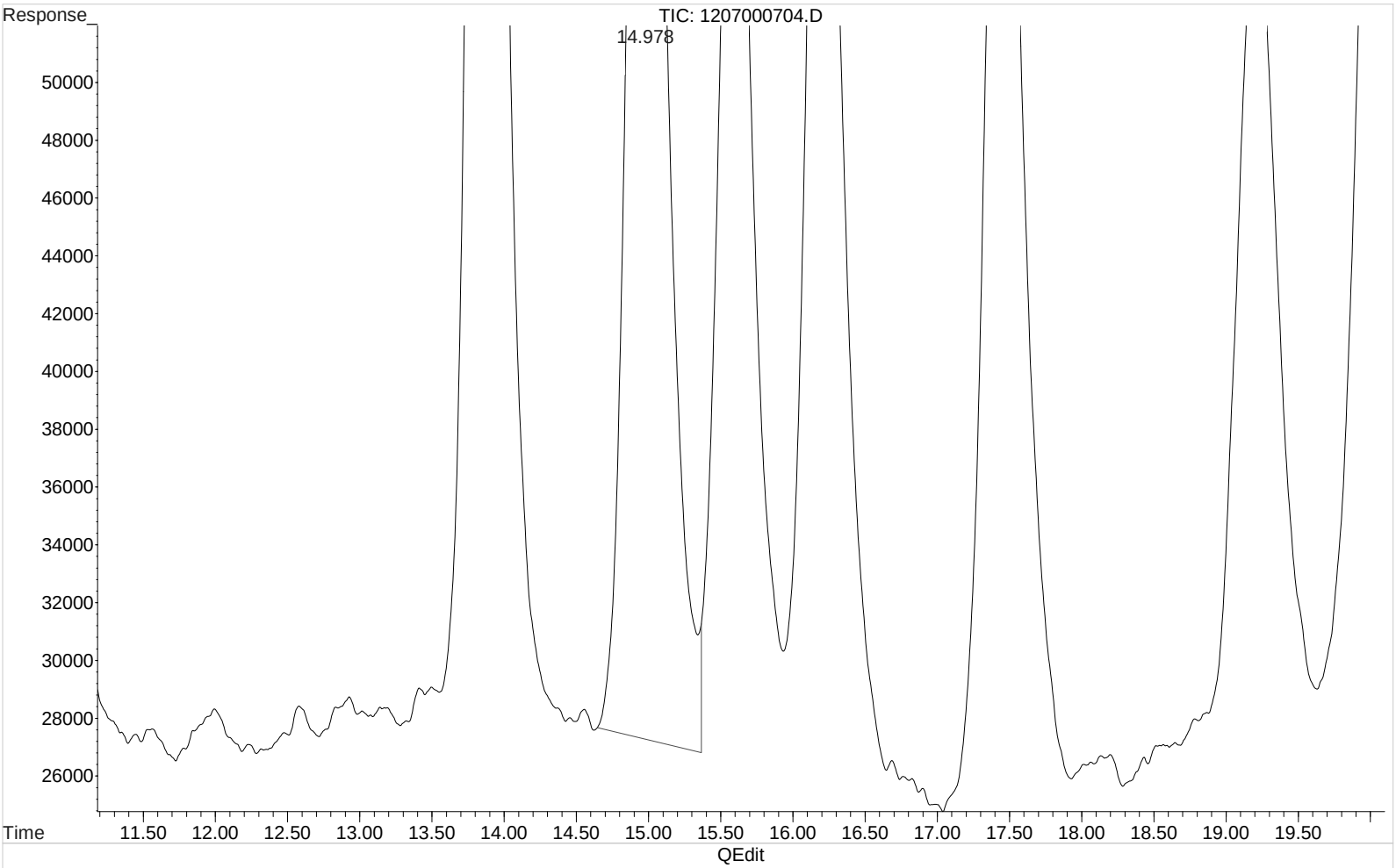
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(7) 3,5-Dinitroaniline (T)

14.978min 0.000 ug/L

response 975452

Manual Integration:

Before

12/08/16

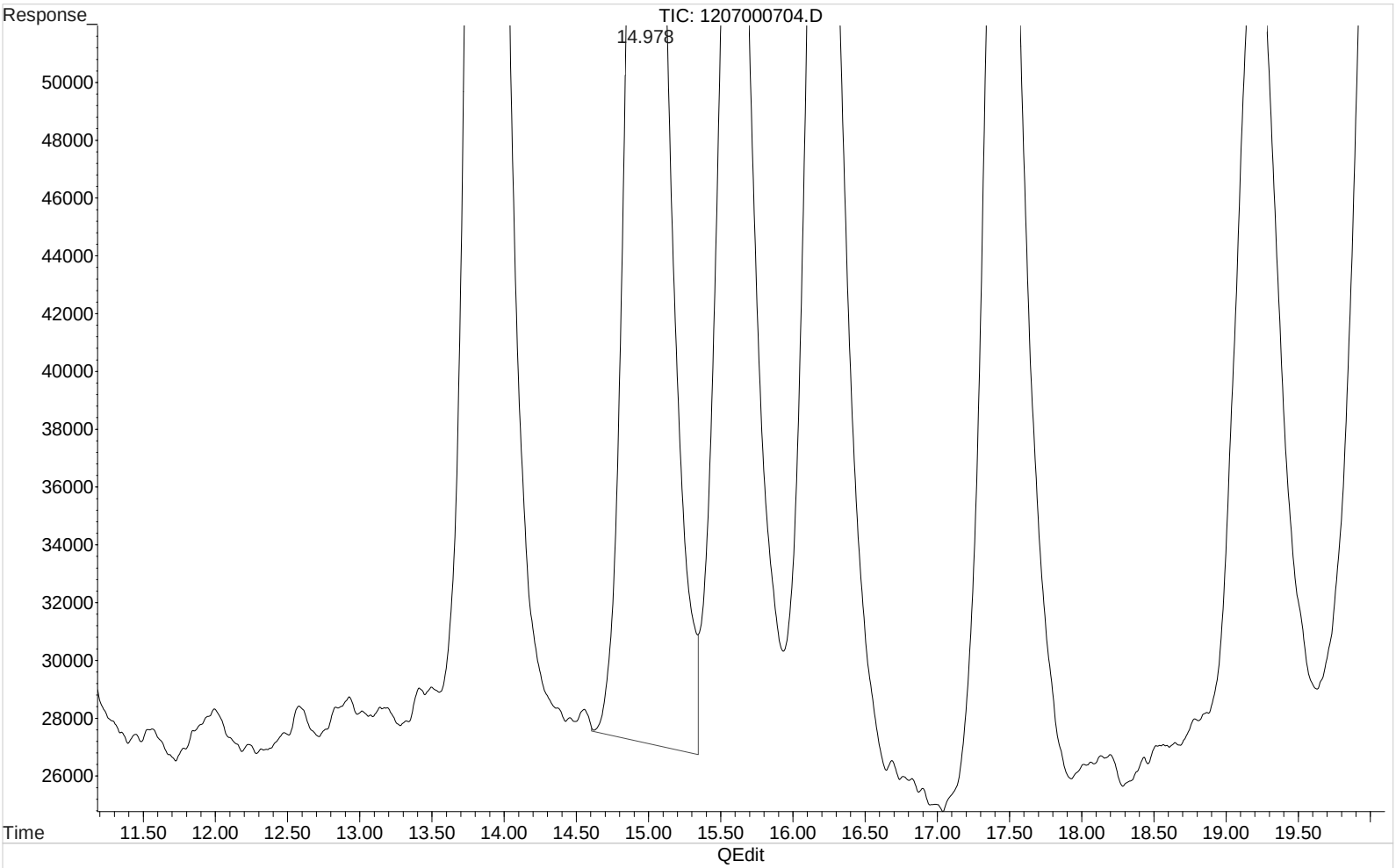
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(7) 3,5-Dinitroaniline (T)

14.978min 0.000 ug/L m

response 975768

Manual Integration:

After

BLC

12/08/16

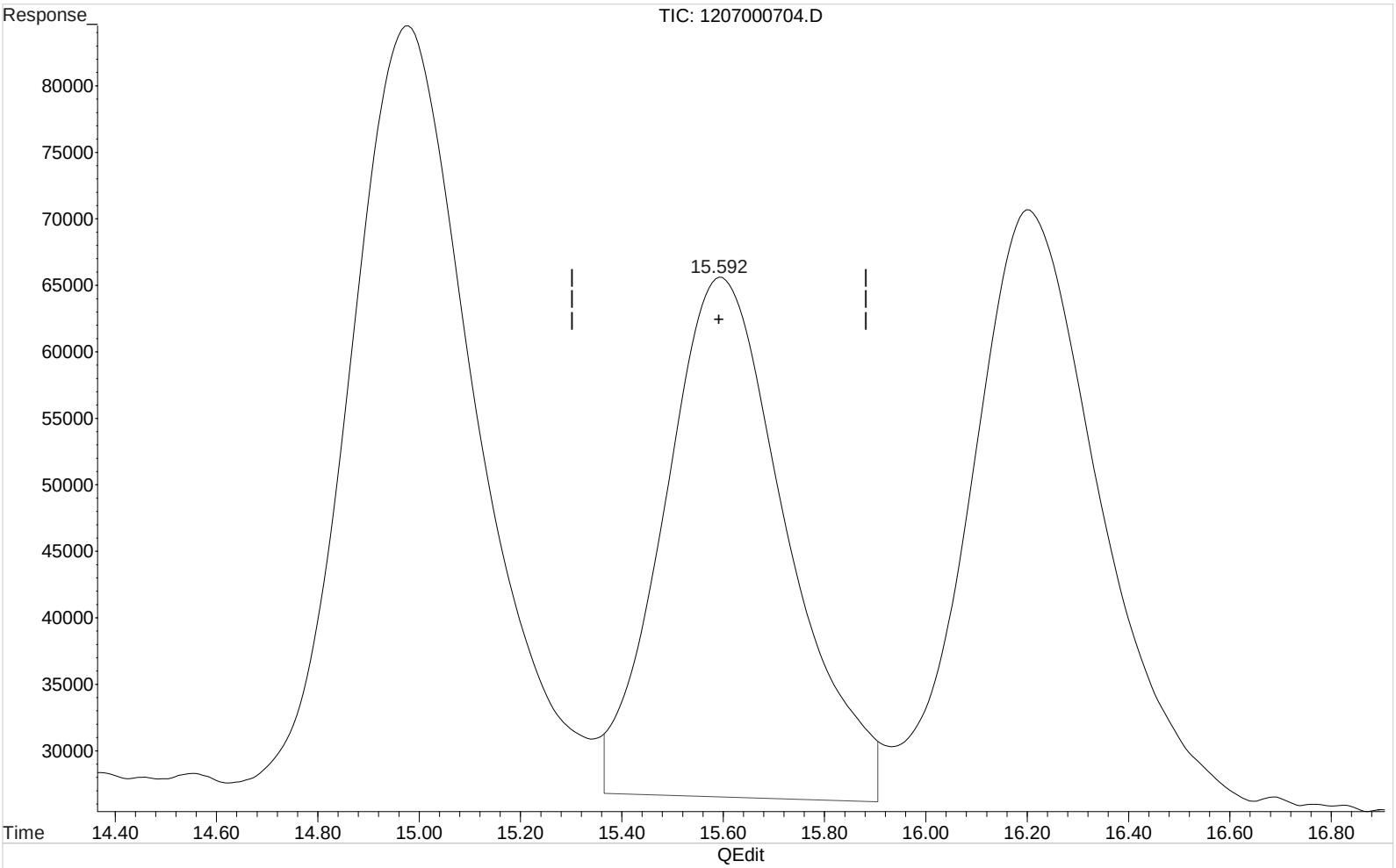
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.592min 0.000 ug/L

response 653235

Manual Integration:

Before

12/08/16

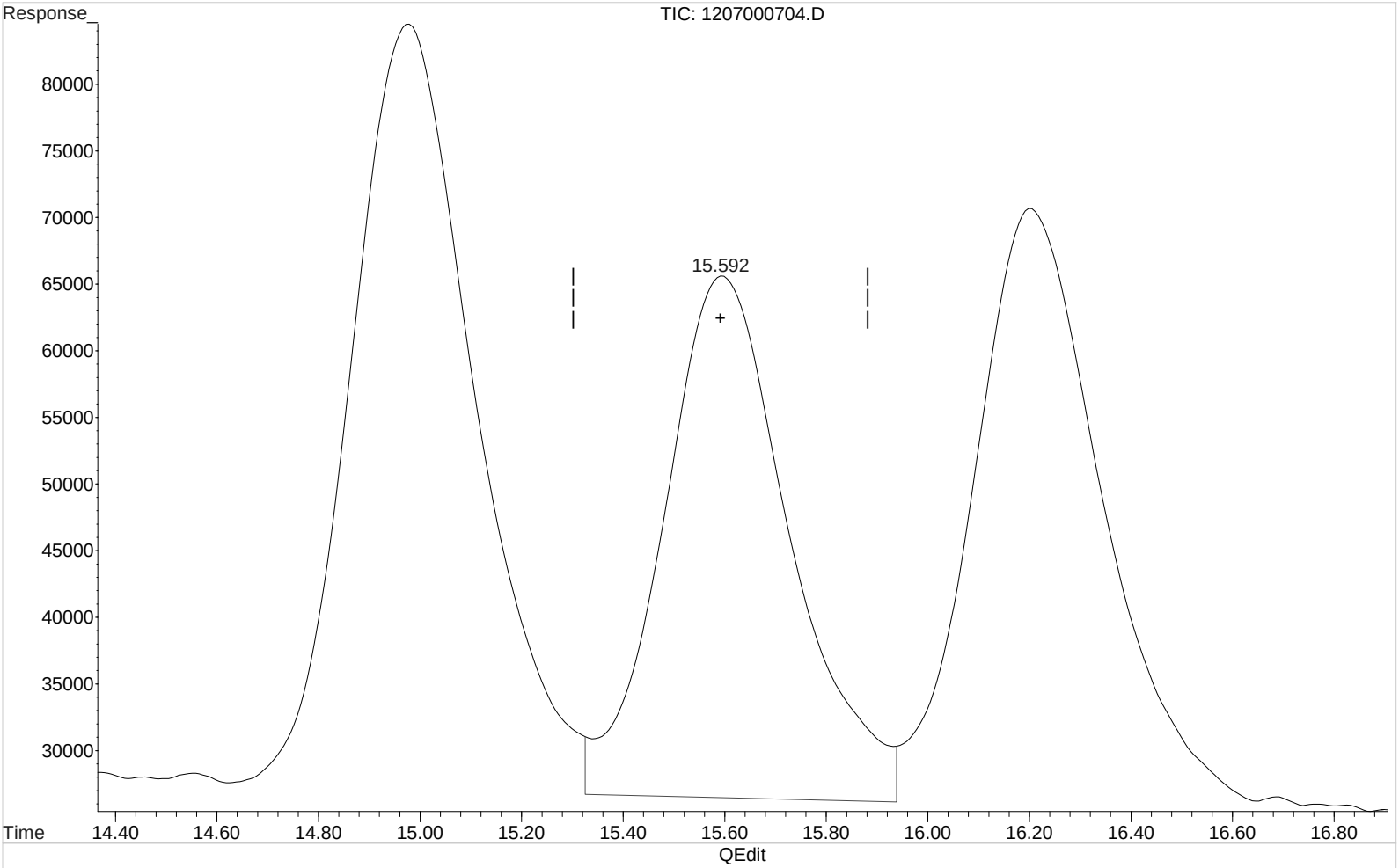
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.592min 0.000 ug/L m

response 673809

Manual Integration:

After

BLC

12/08/16

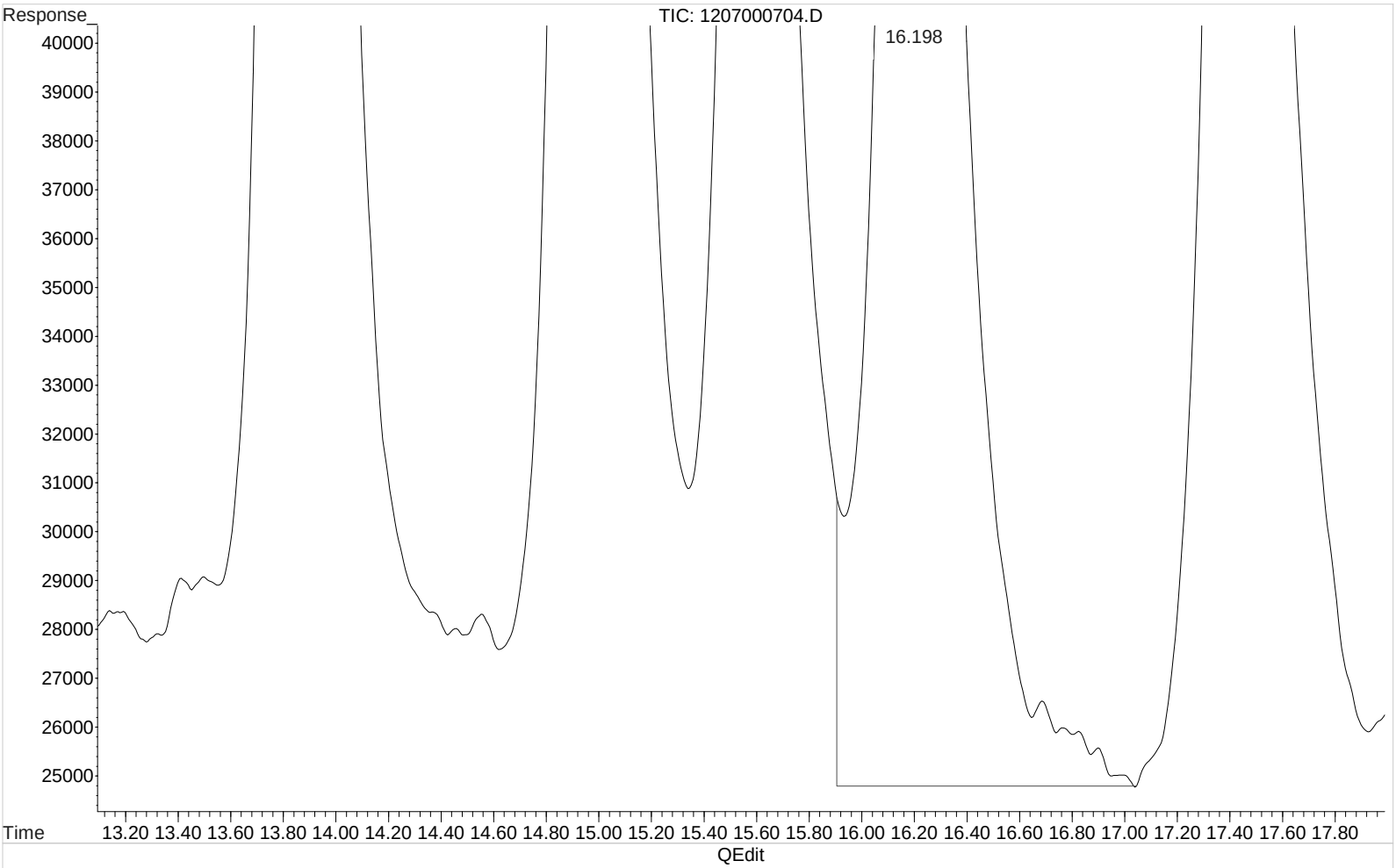
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(9) Nitrobenzene (T)

16.198min 0.000 ug/L

response 865148

Manual Integration:

Before

12/08/16

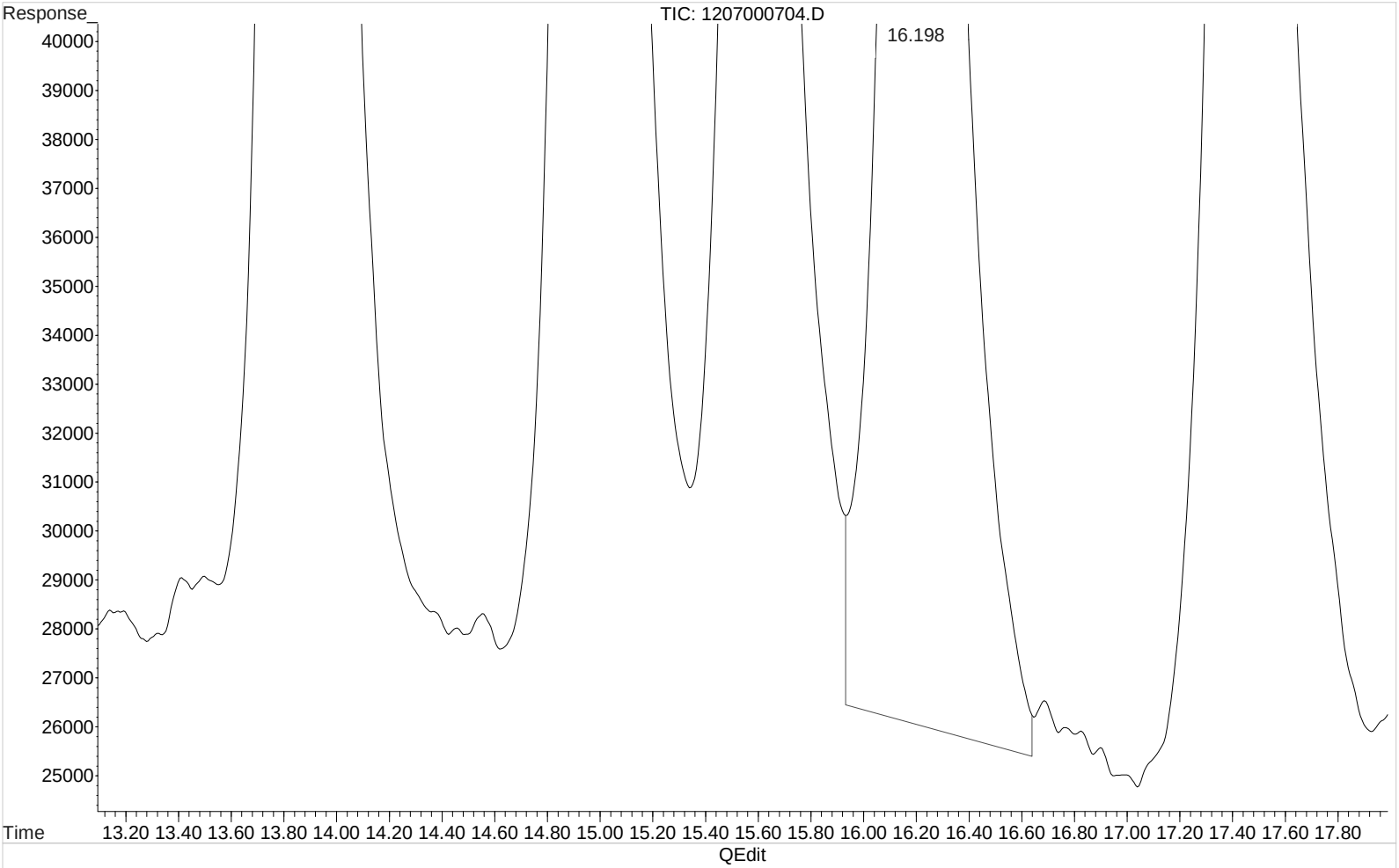
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(9) Nitrobenzene (T)

16.198min 0.000 ug/L m

response 787874

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:09 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
18)	S	1-Chloro-3-Nitrobenzene	29.700	1102787	47.809	ug/L	m
		Target Compounds					
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	4.787	592400	50.916	ug/L	m
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	8.380	978940	46.580	ug/L	m
5)	T	1,3,5-TNB	10.520	2272781	50.023	ug/L	
6)	T	1,3-DNB	13.860	3069012	48.773	ug/L	m
7)	T	3,5-Dinitroaniline	14.967	2382128	48.826	ug/L	m
8)	T	Tetryl	15.587	1676426	49.760	ug/L	m
9)	T	Nitrobenzene	16.200	1950750	49.519	ug/L	m
10)	T	2,4,6-TNT	17.447	2100866	52.688	ug/L	m
11)	T	4-Amino-2,6-DNT	19.200	1535717	57.134	ug/L	m
12)	T	2-Amino-4,6-DNT	20.034	2085917	43.852	ug/L	m
13)	T	2,6-DNT	21.760	1280625	NoCal	ug/L	m
14)	T	2,4-DNT	22.214	2955148	51.322	ug/L	m
15)	T	2-NT	25.327	912402	52.158	ug/L	m
16)	T	4-NT	26.254	806643	50.422	ug/L	m
17)	T	3-NT	27.380	982059	47.770	ug/L	m

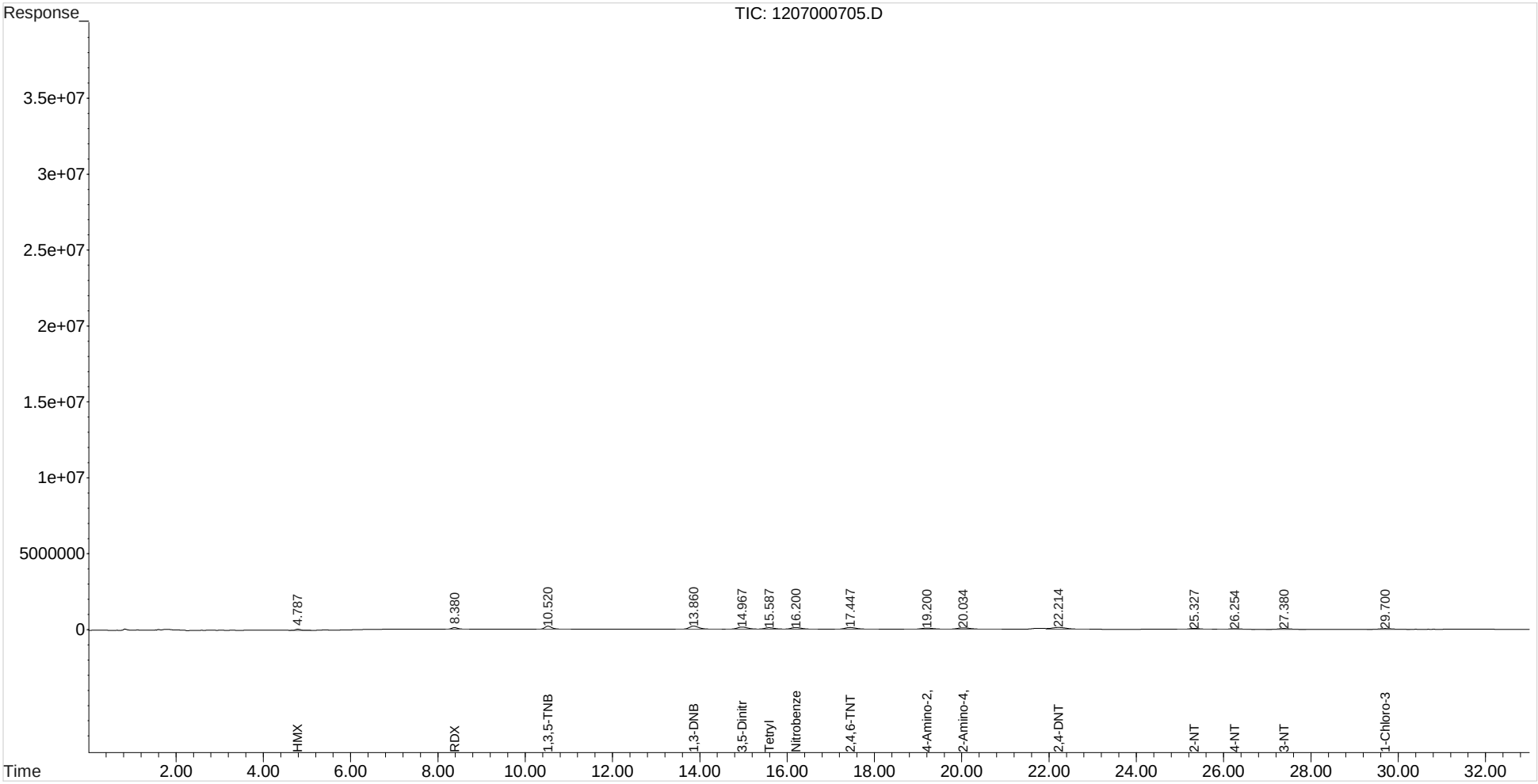
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:09 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

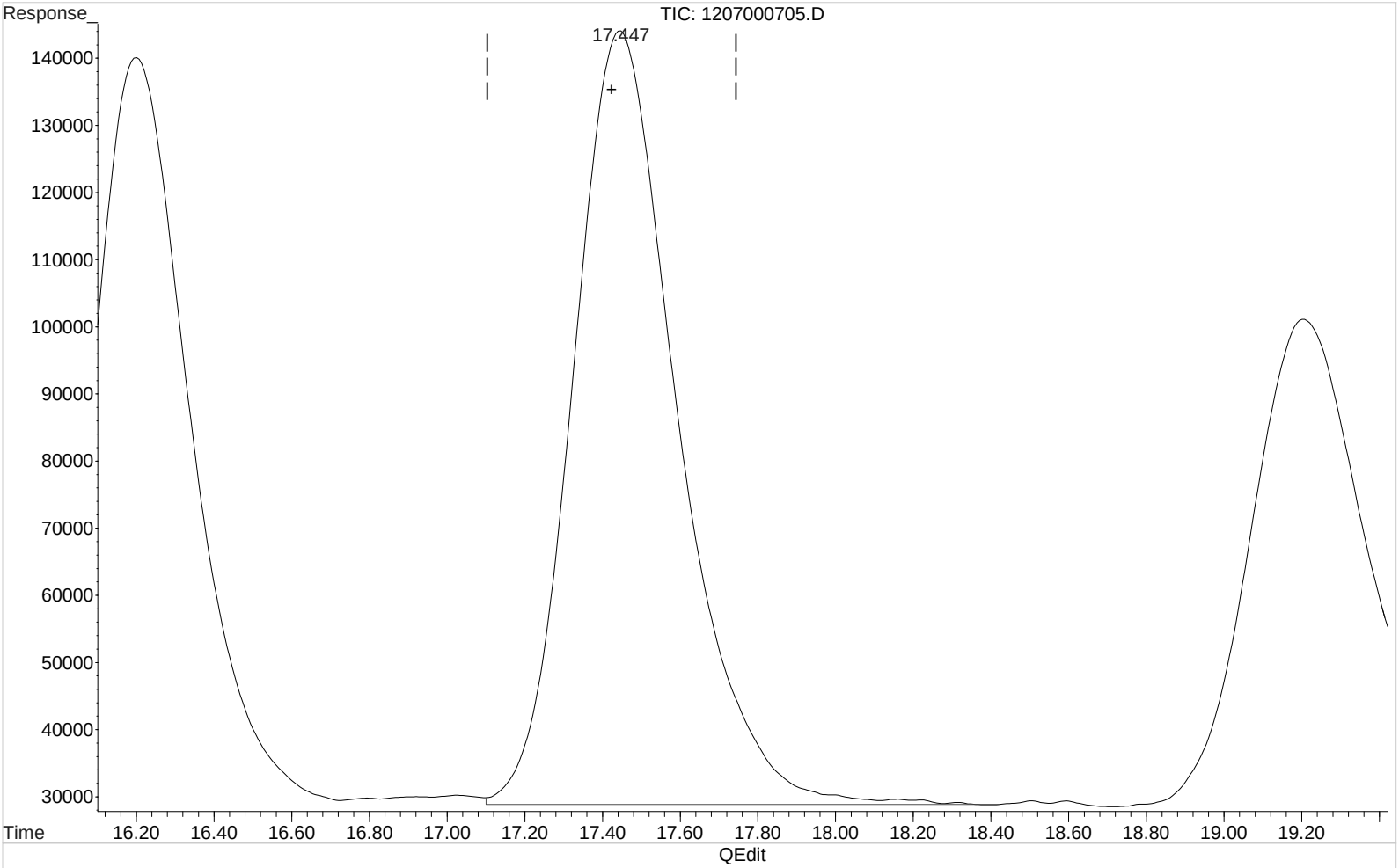


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(10) 2,4,6-TNT (T)

17.447min 54.187 ug/L

response 2160666

Manual Integration:

Before

12/08/16

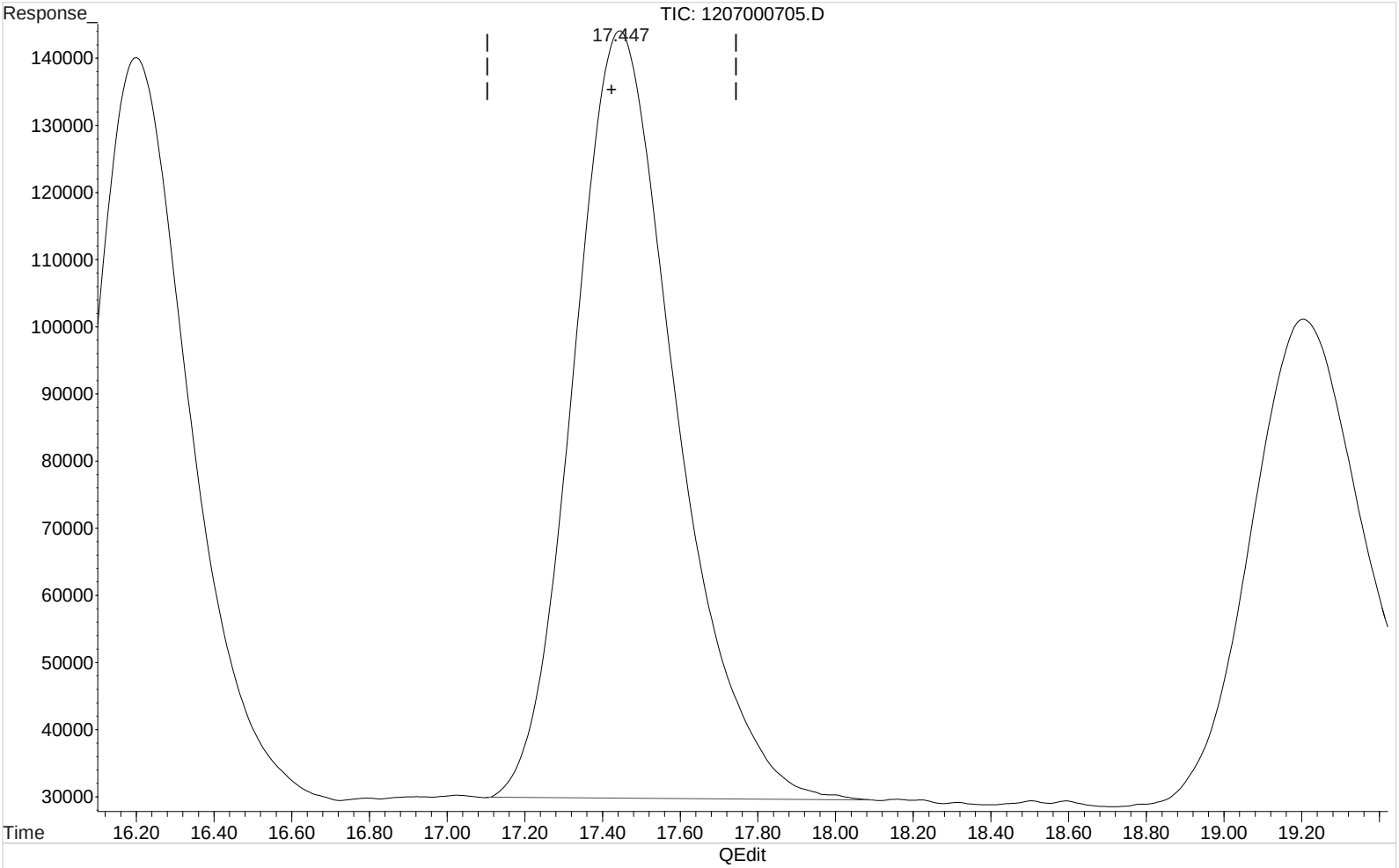
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(10) 2,4,6-TNT (T)

17.447min 52.688 ug/L m

response 2100866

Manual Integration:

After

BLC

12/08/16

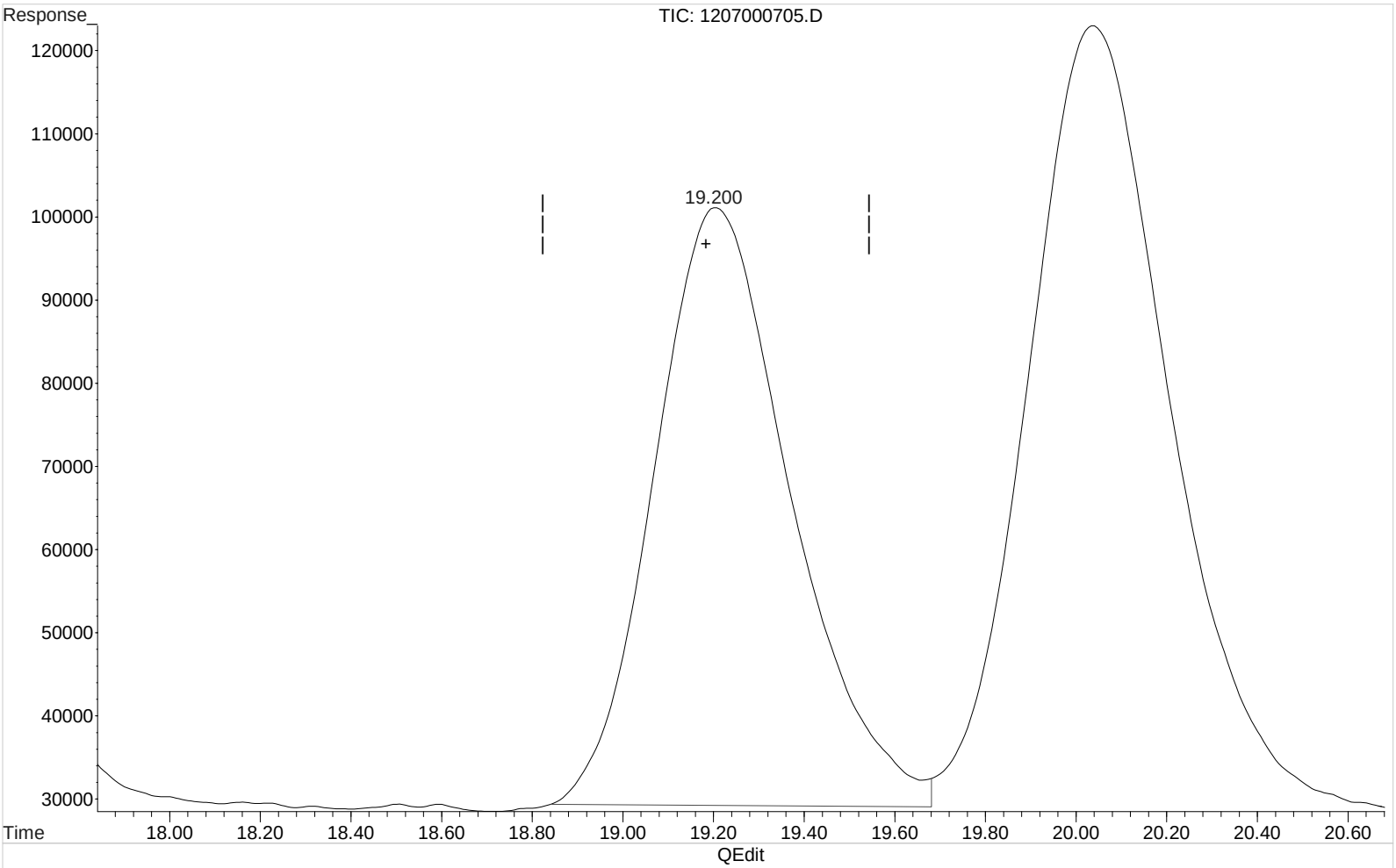
(+) = Expected Retention Time

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(11) 4-Amino-2,6-DNT (T)

19.200min 55.799 ug/L

response 1499828

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b)(6)

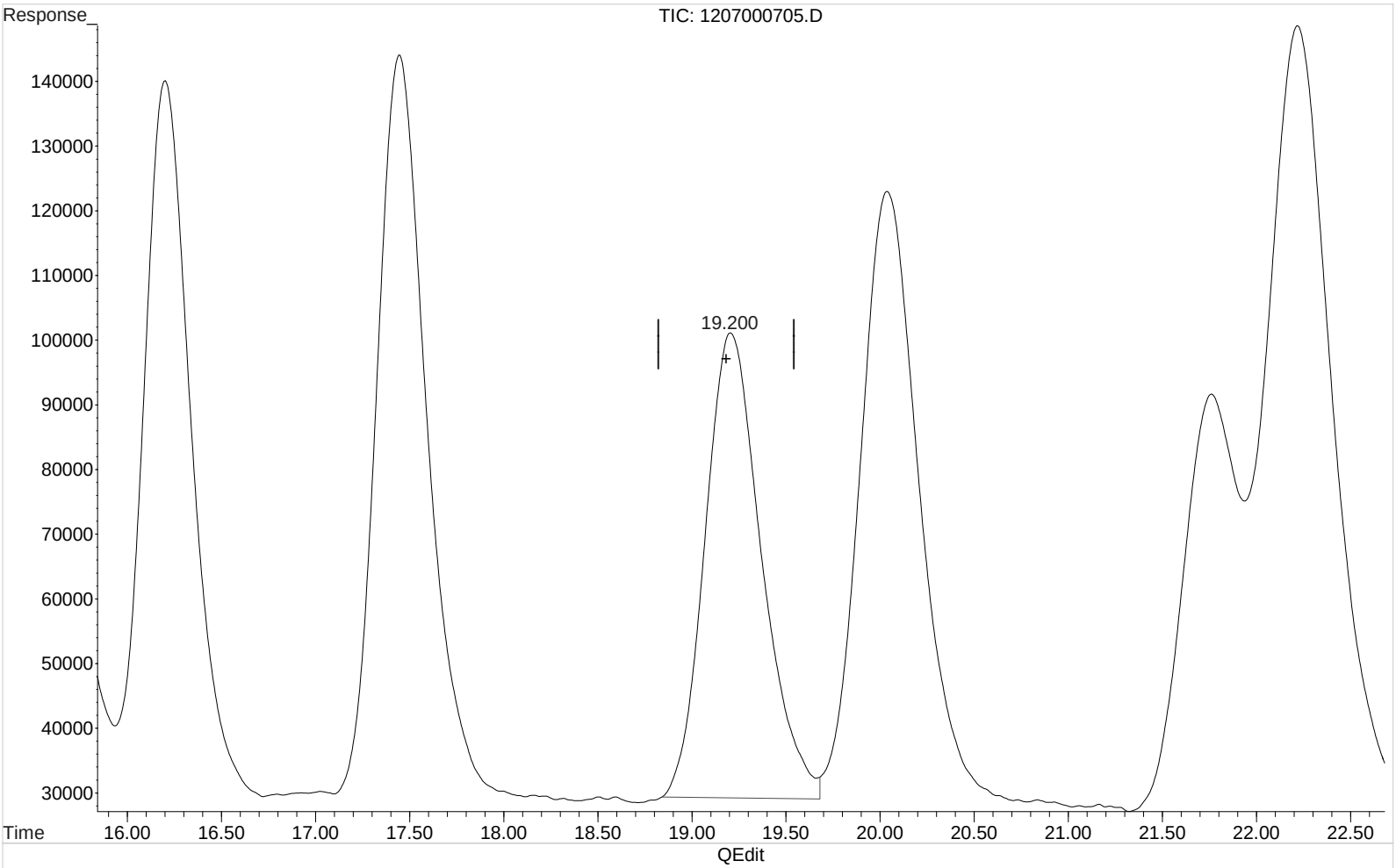
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(11) 4-Amino-2,6-DNT (T)

19.200min 55.799 ug/L

response 1499828

Manual Integration:

Before

12/08/16

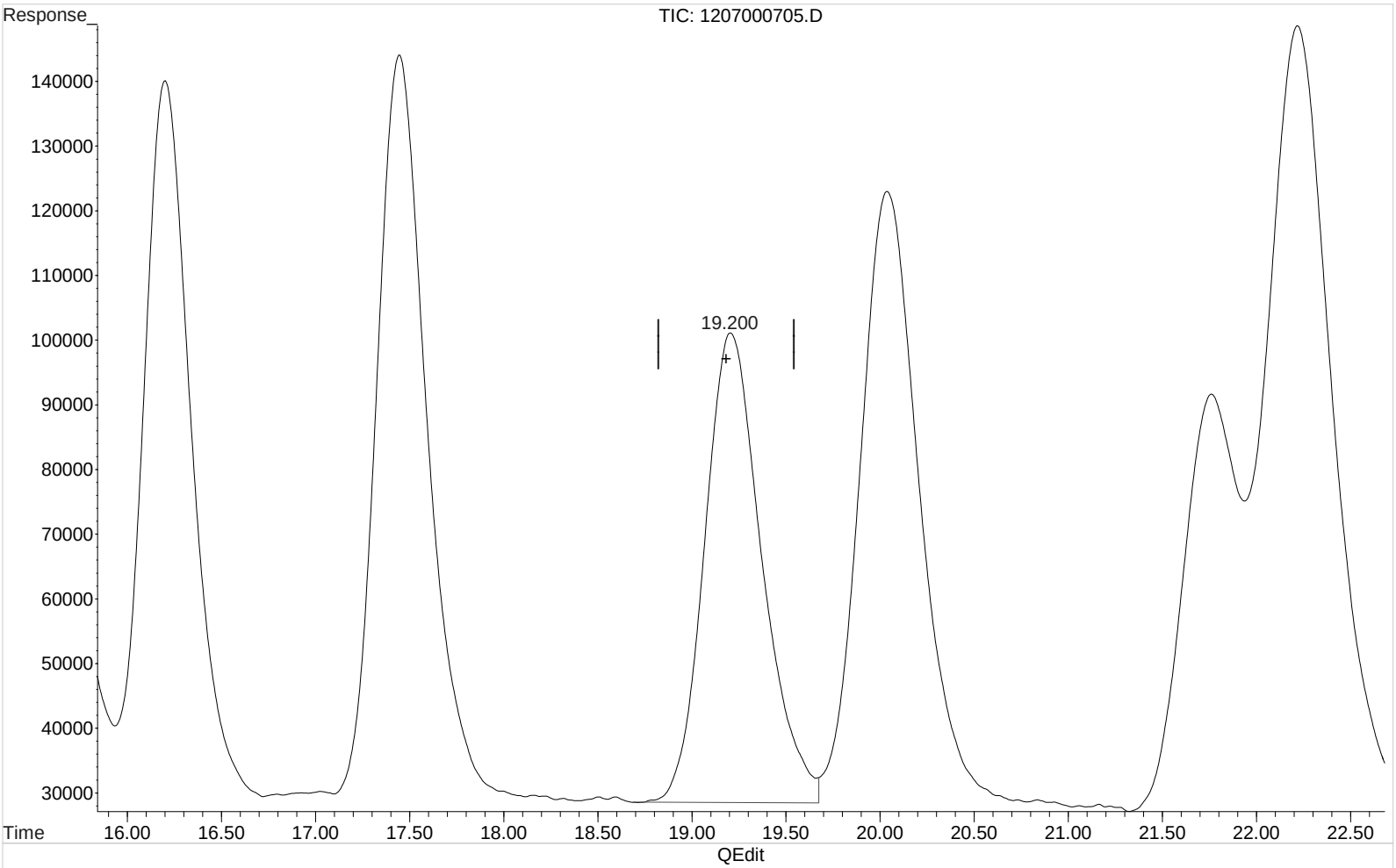
(+) = Expected Retention Time

(b)(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(11) 4-Amino-2,6-DNT (T)

19.200min 57.134 ug/L m

response 1535717

Manual Integration:

After

BLC

12/08/16

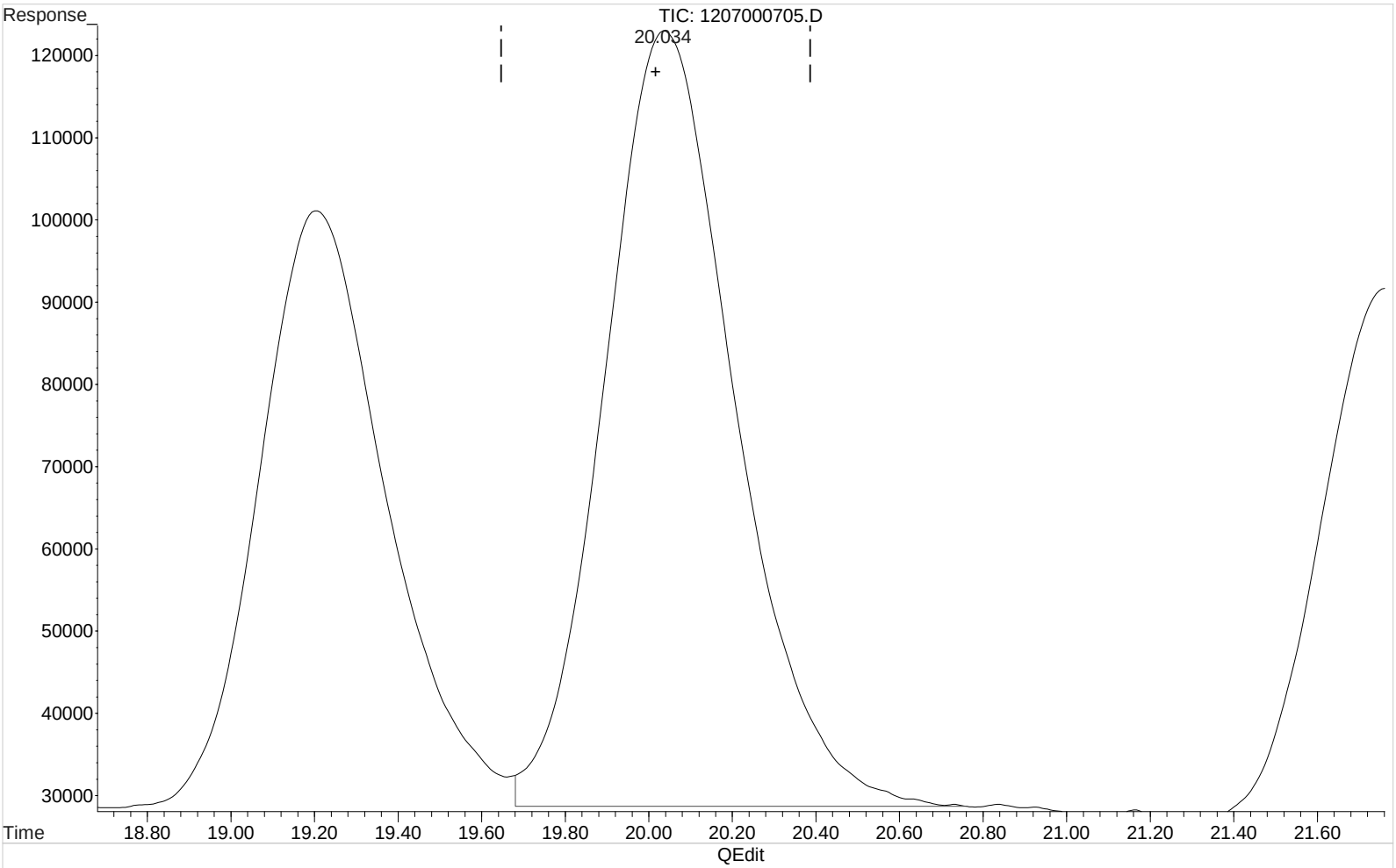
(+) = Expected Retention Time

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(12) 2-Amino-4,6-DNT (T)

20.034min 43.047 ug/L

response 2047627

Manual Integration:

Before

12/08/16

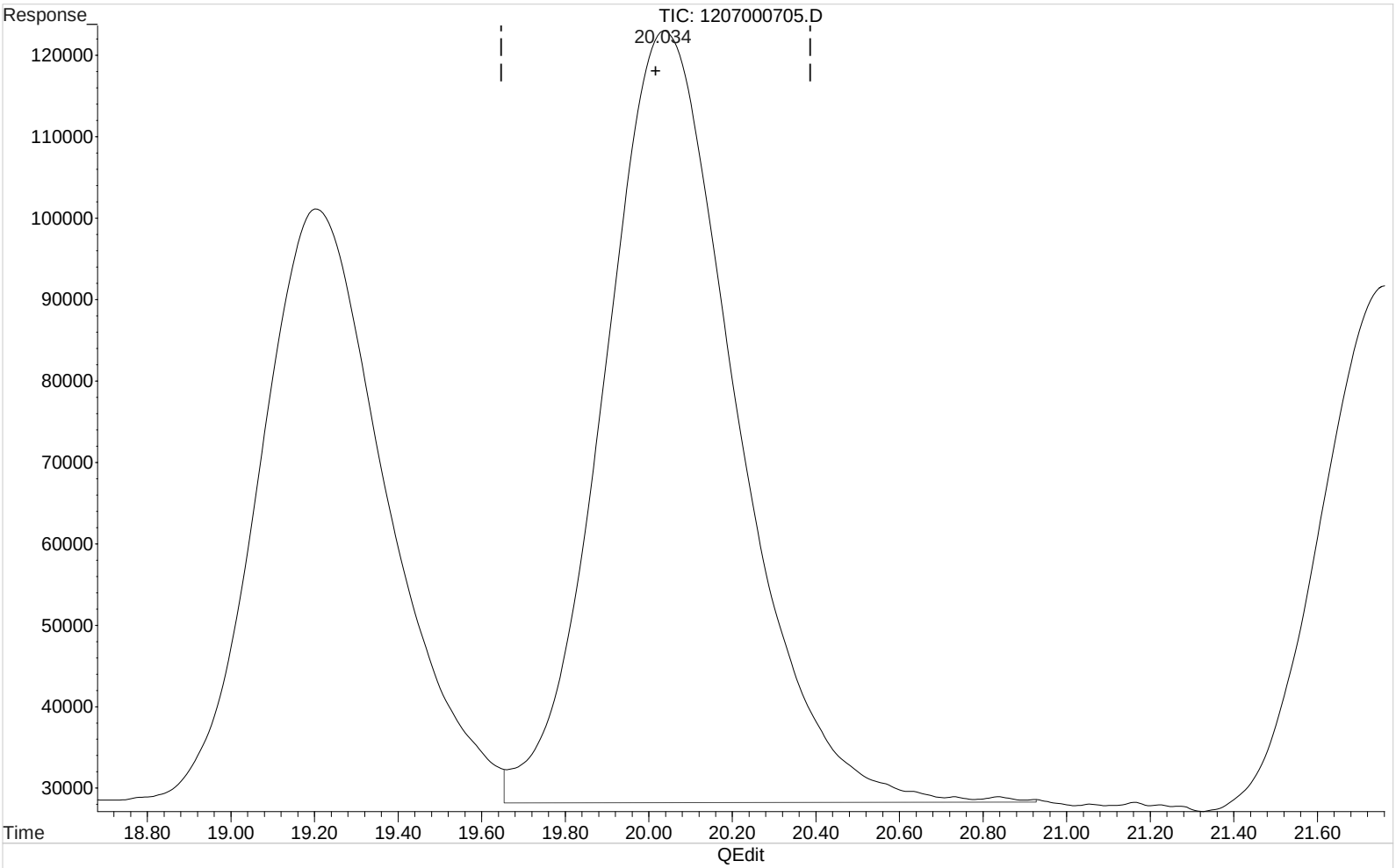
(+) = Expected Retention Time

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(12) 2-Amino-4,6-DNT (T)

20.034min 43.890 ug/L m

response 2087710

Manual Integration:

Before

12/08/16

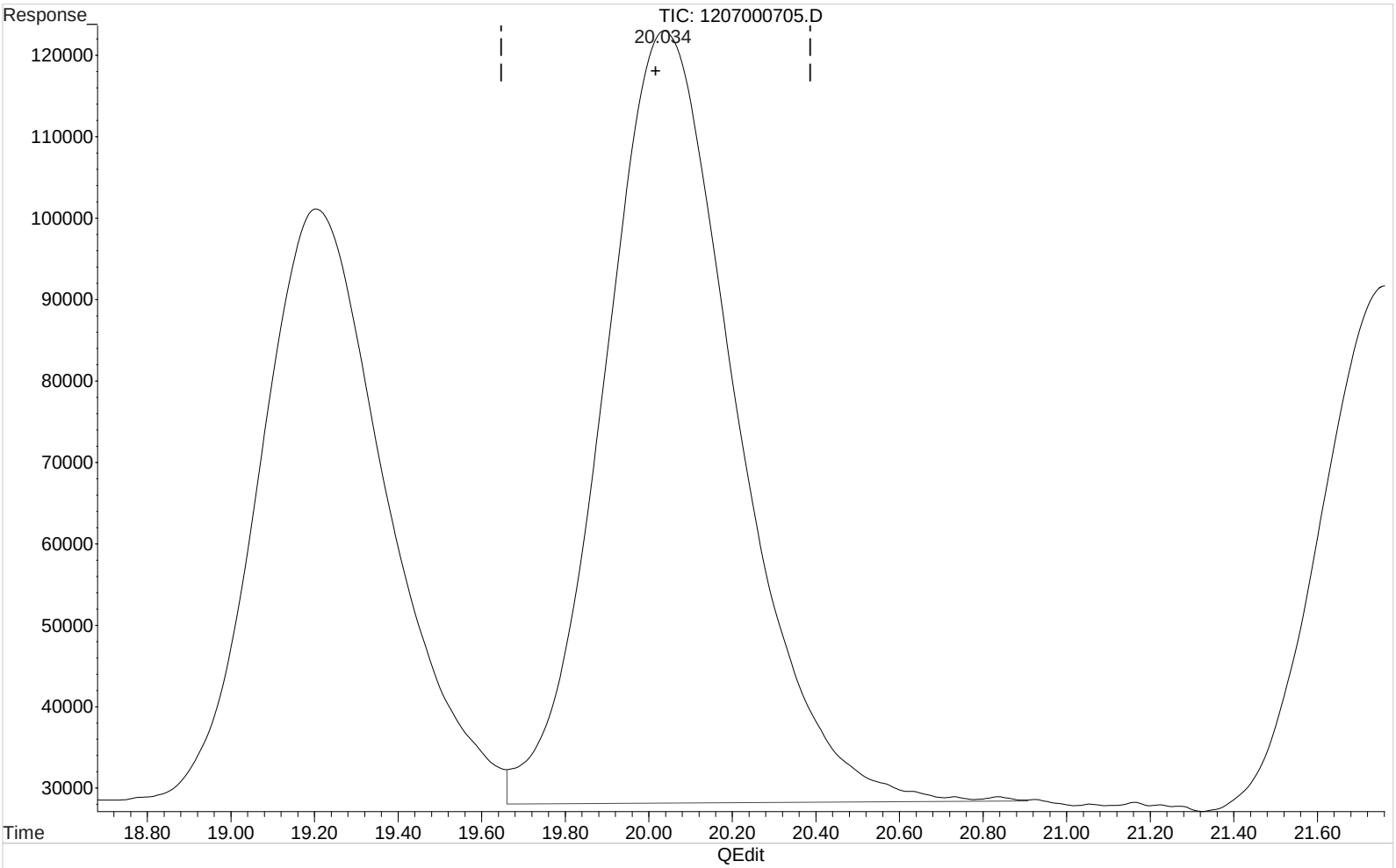
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(12) 2-Amino-4,6-DNT (T)

20.034min 43.852 ug/L m

response 2085917

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

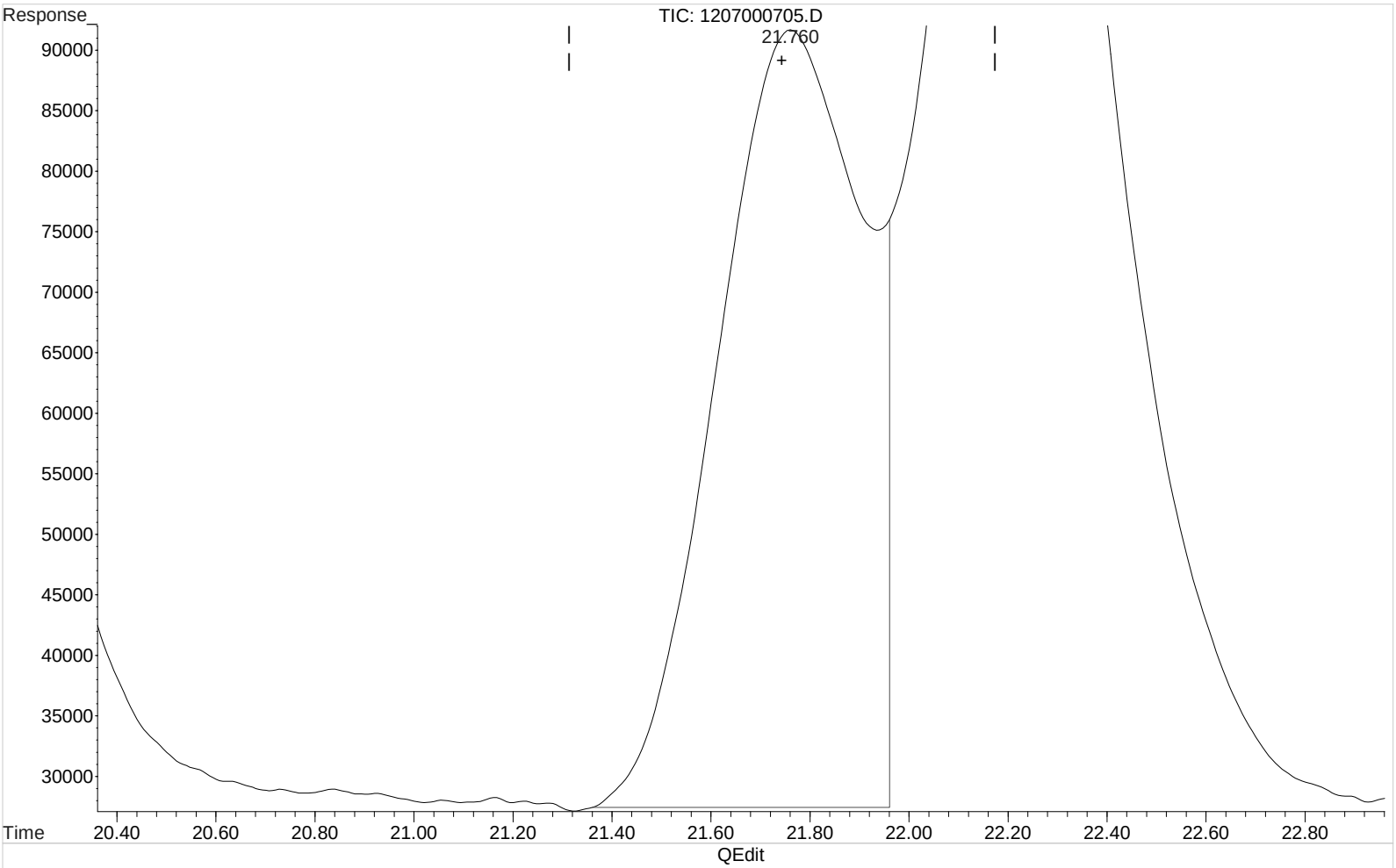
Quantitation Report (Qedit)

1st (b) (6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.760min 0.000 ug/L

response 1327592

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

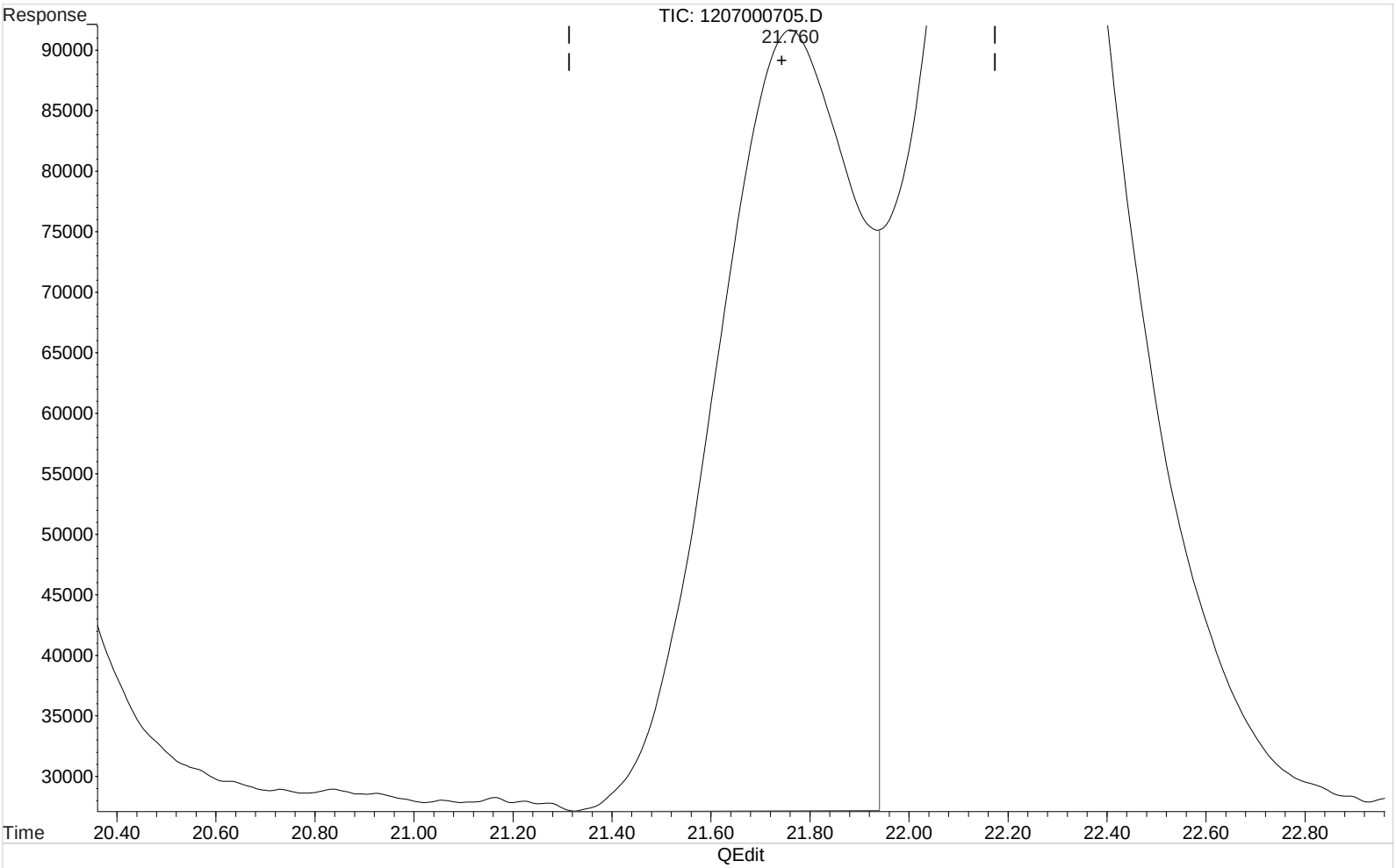
Quantitation Report (Qedit)

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.760min 0.000 ug/L m

response 1280625

Manual Integration:

After

BLC

12/08/16

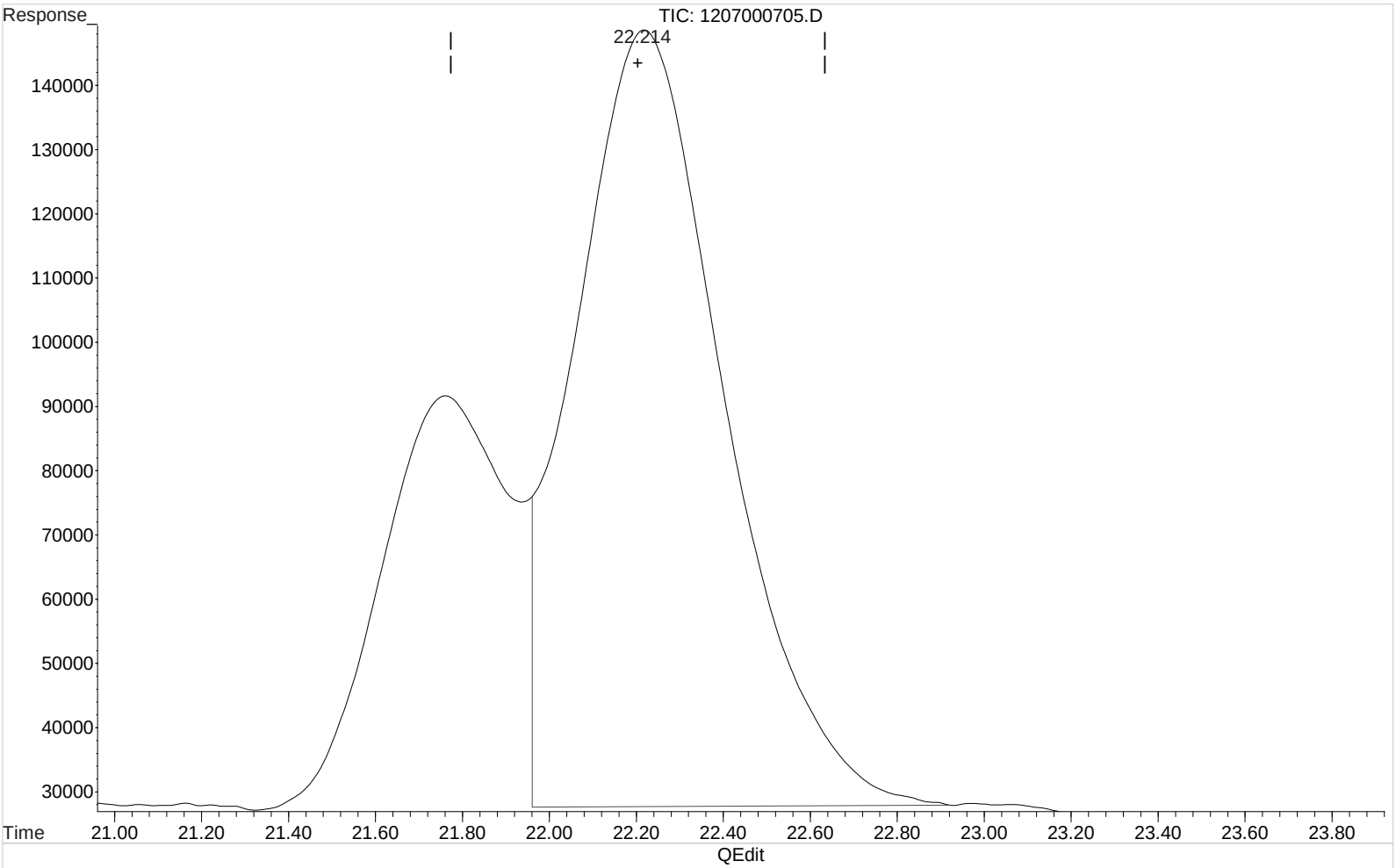
(+) = Expected Retention Time

1st (b) (6) 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.214min 50.242 ug/L

response 2892987

Manual Integration:

Before

12/08/16

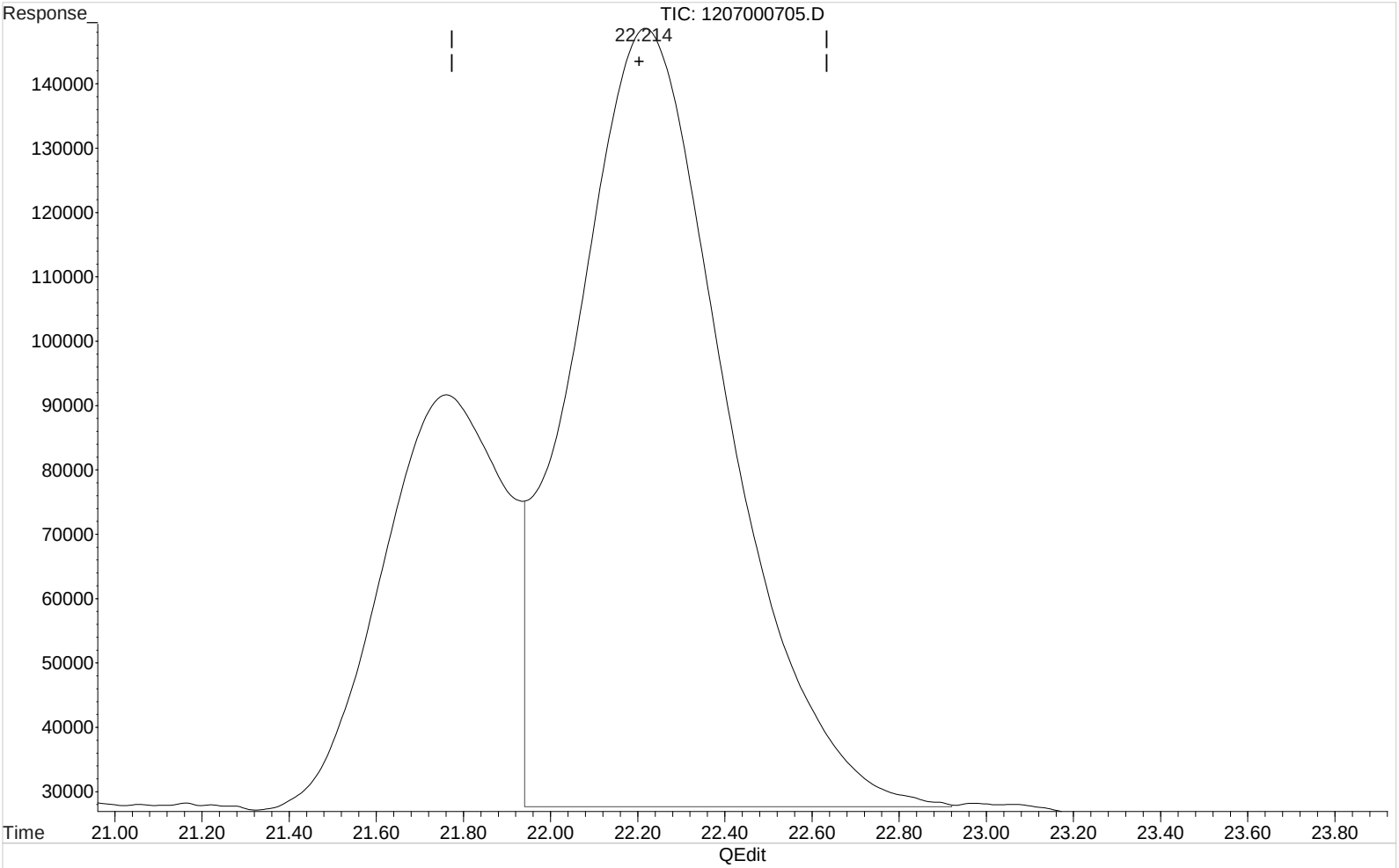
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.214min 51.322 ug/L m

response 2955148

Manual Integration:

After

BLC

12/08/16

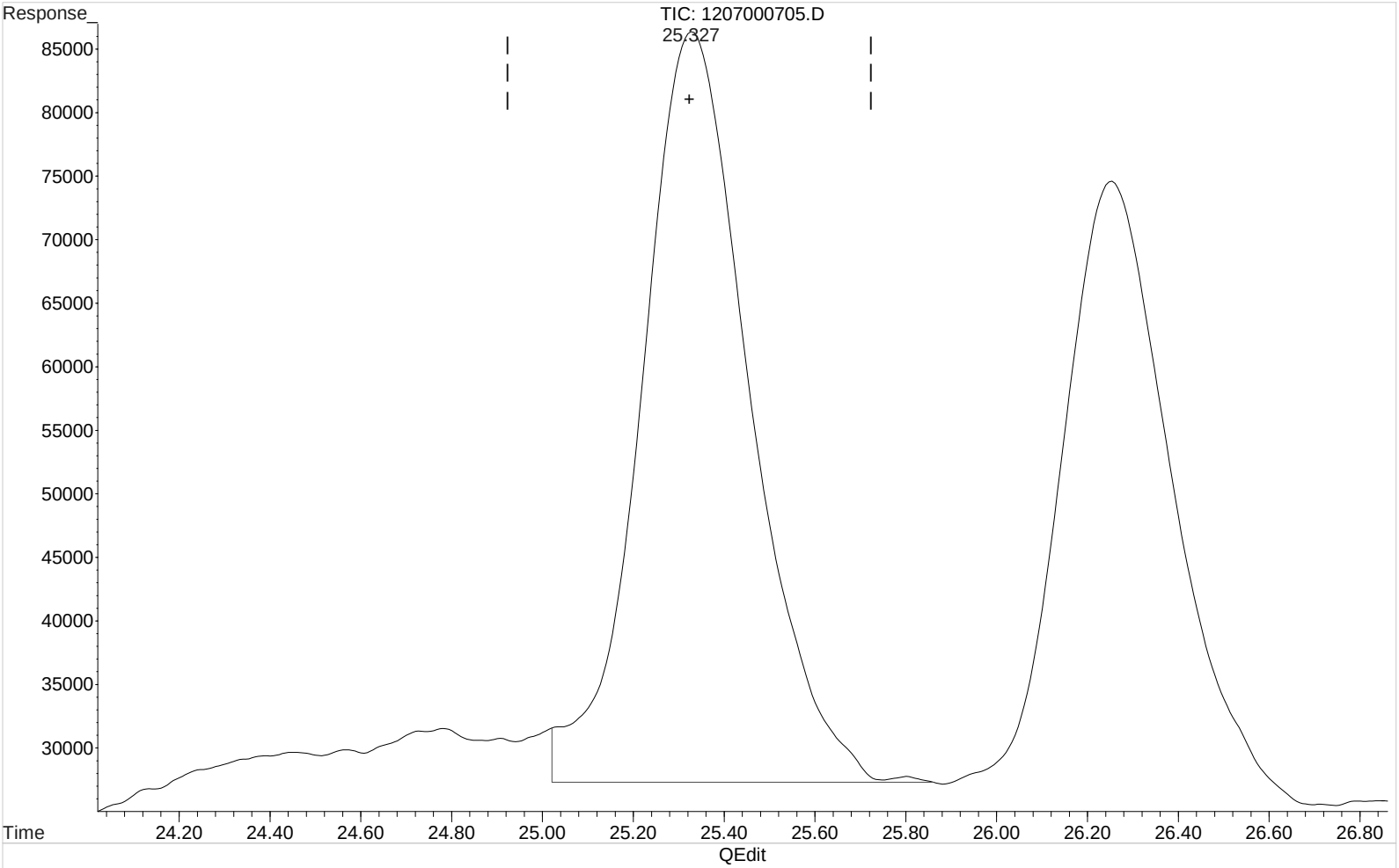
(+) = Expected Retention Time

(b) (6)
1st [redacted] 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.327min 56.083 ug/L

response 981052

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

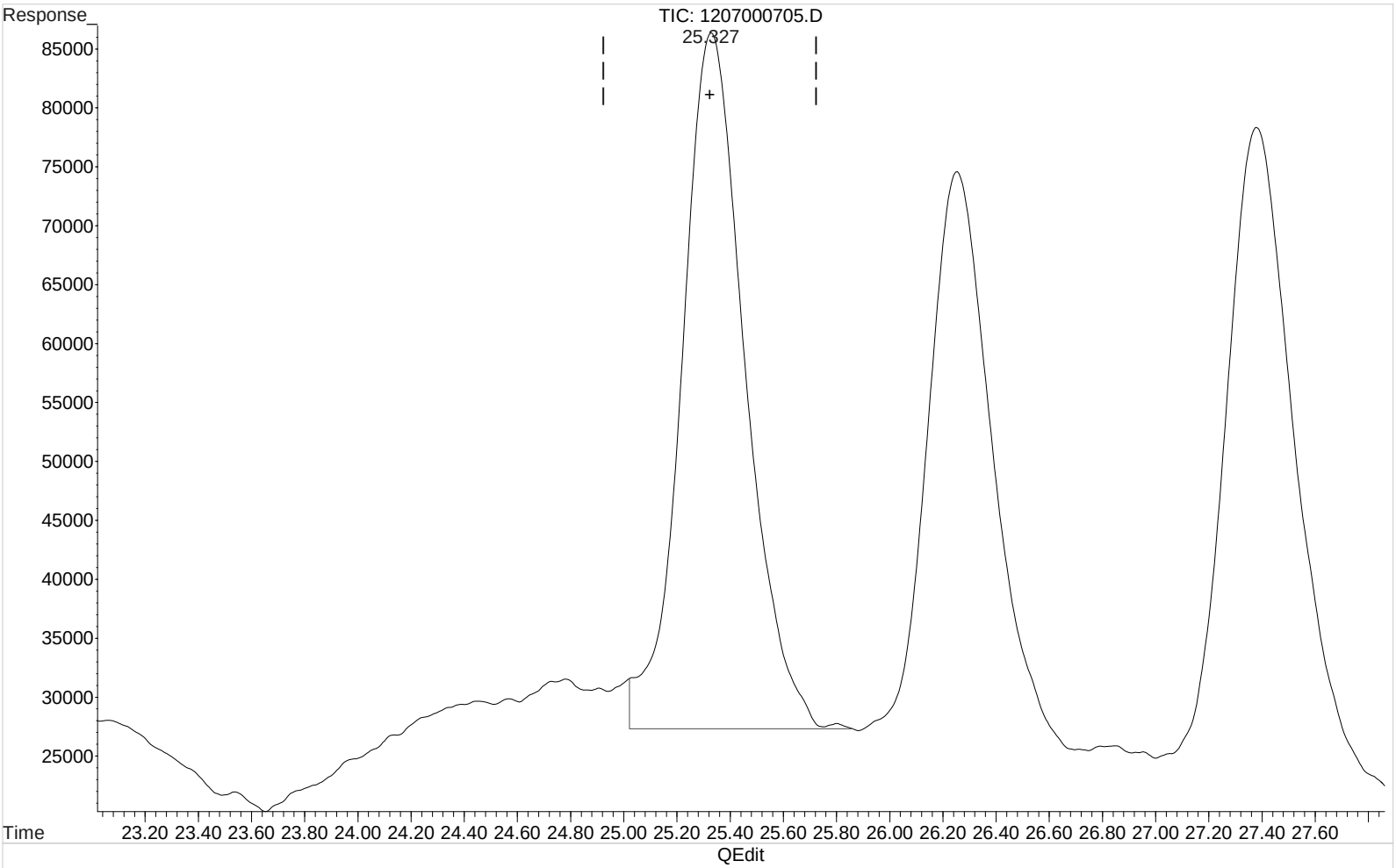
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.327min 56.083 ug/L

response 981052

Manual Integration:

Before

12/08/16

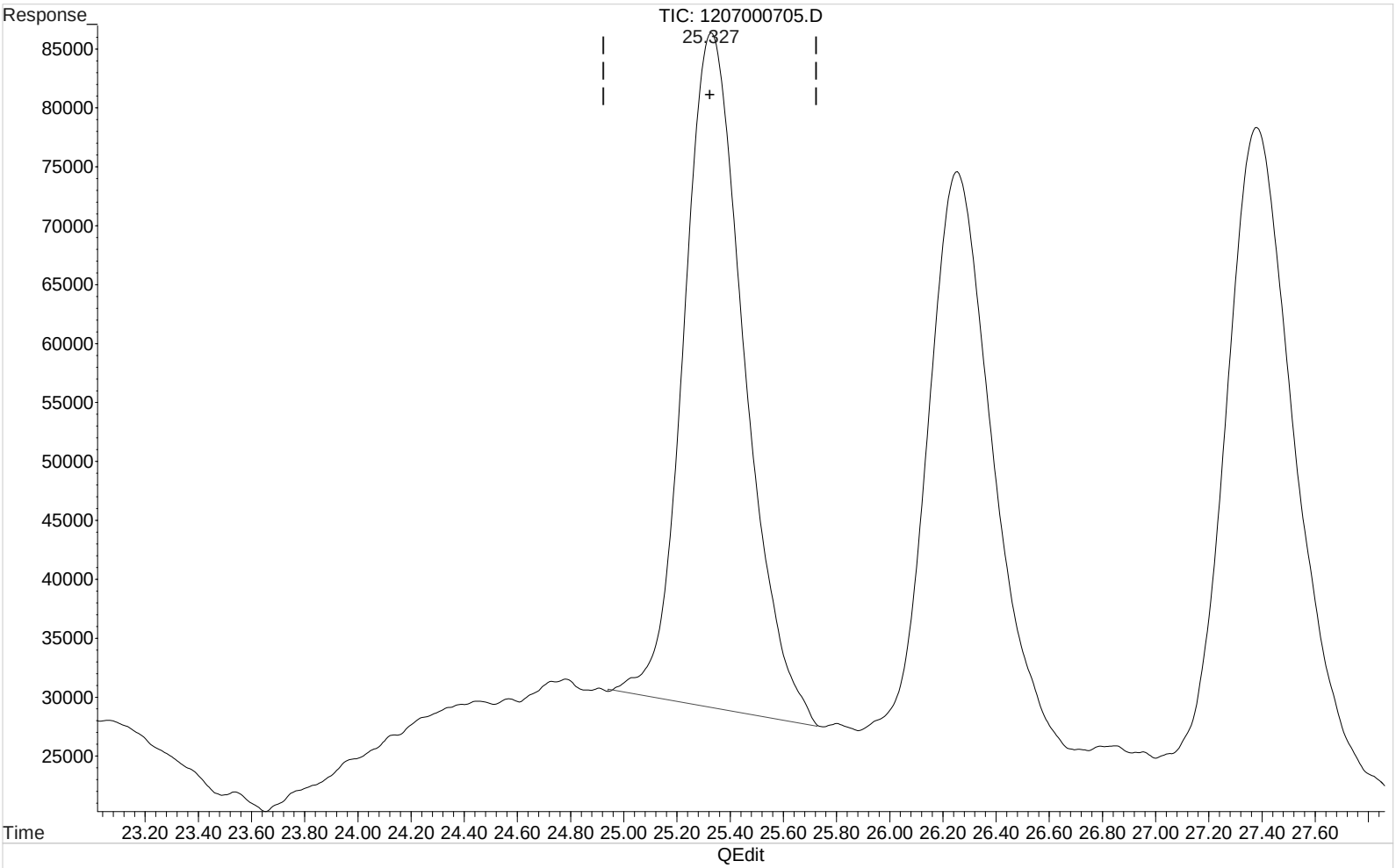
(+) = Expected Retention Time

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.327min 52.158 ug/L m

response 912402

Manual Integration:

After

BLC

12/08/16

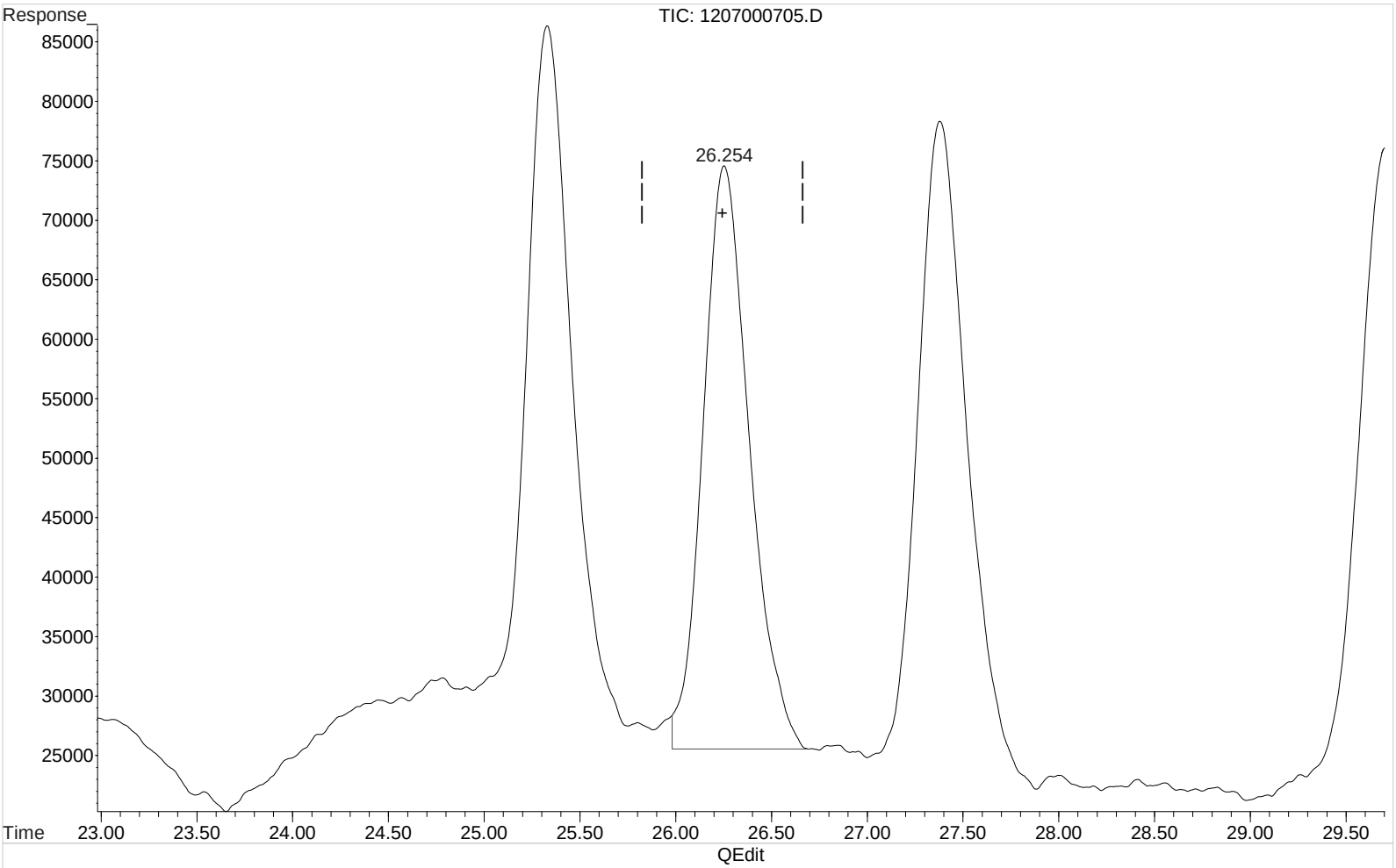
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.254min 51.817 ug/L

response 828954

Manual Integration:

Before

12/08/16

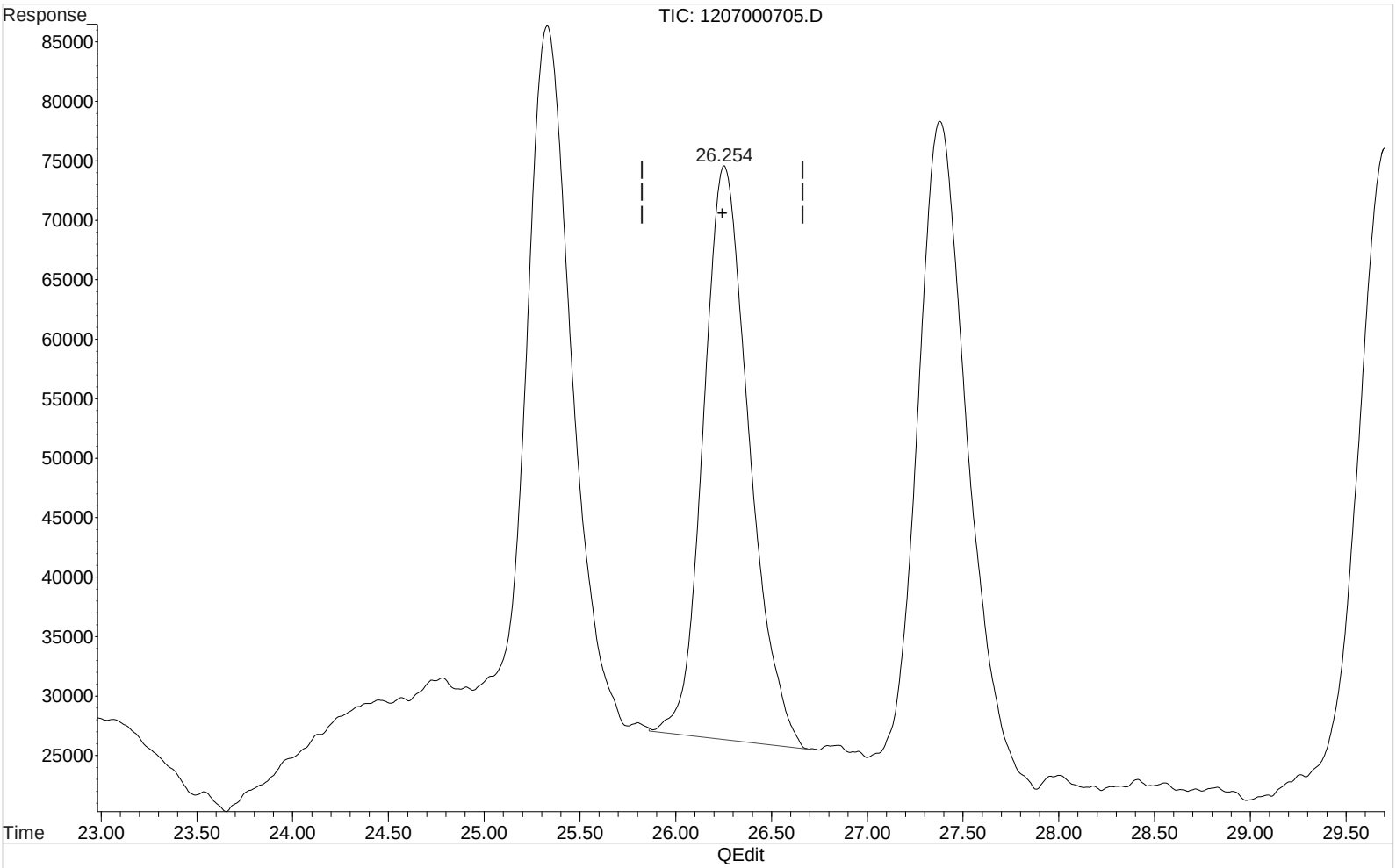
(+) = Expected Retention Time

1st (b) (6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.254min 50.422 ug/L m

response 806643

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

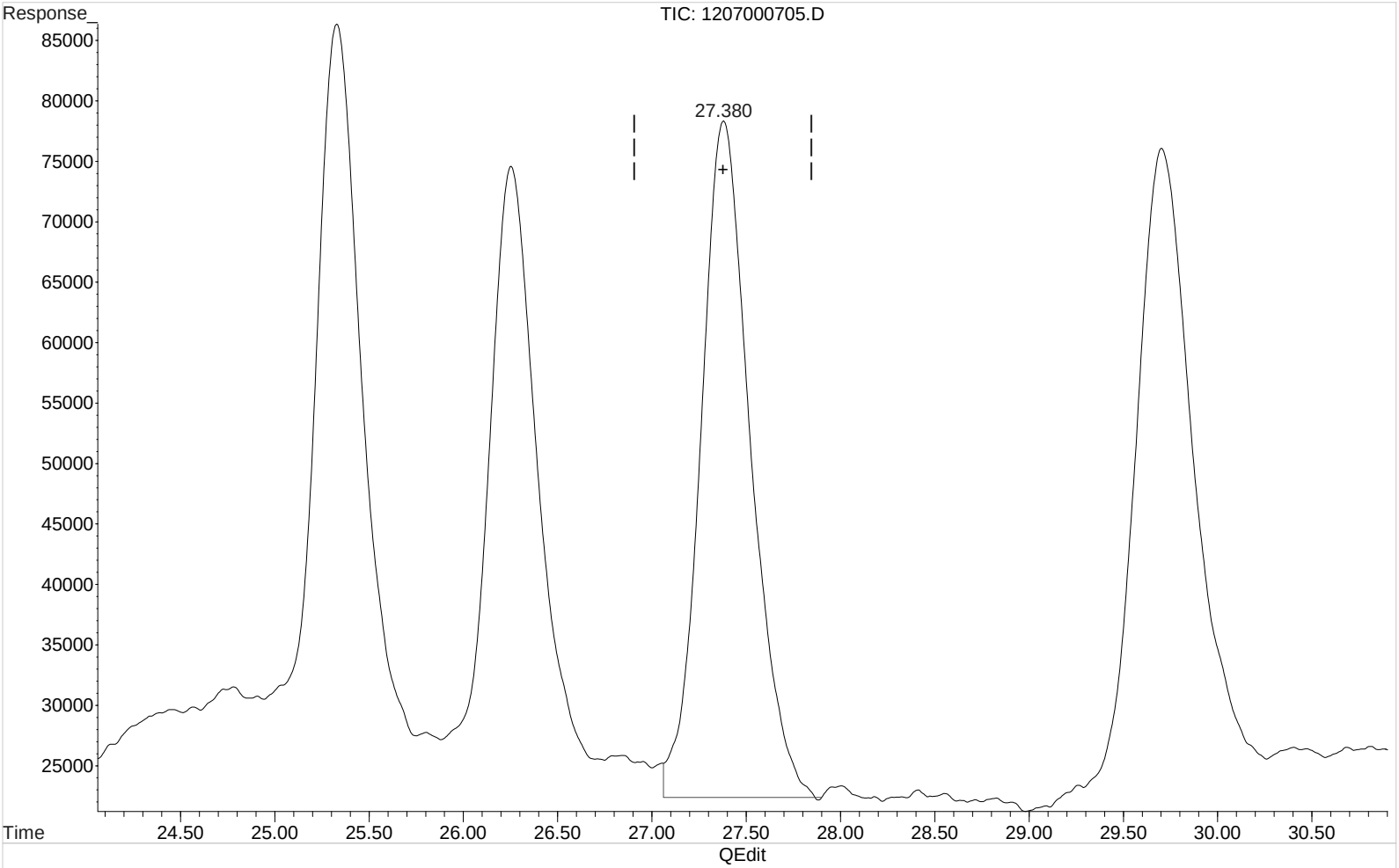
Quantitation Report (Qedit)

1st (b)(6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.380min 50.117 ug/L

response 1030312

Manual Integration:

Before

12/08/16

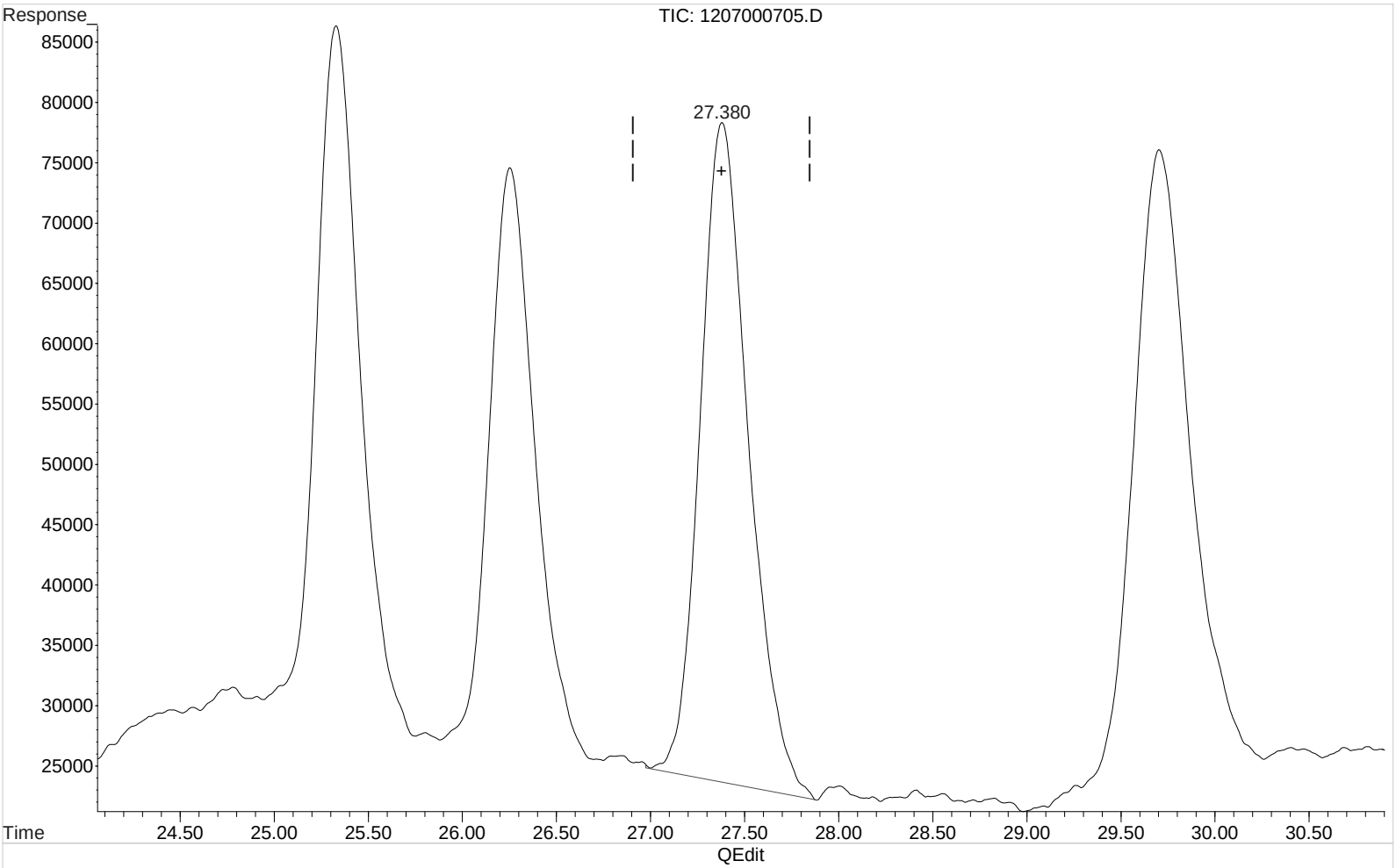
(+) = Expected Retention Time

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.380min 47.770 ug/L m

response 982059

Manual Integration:

After

BLC

12/08/16

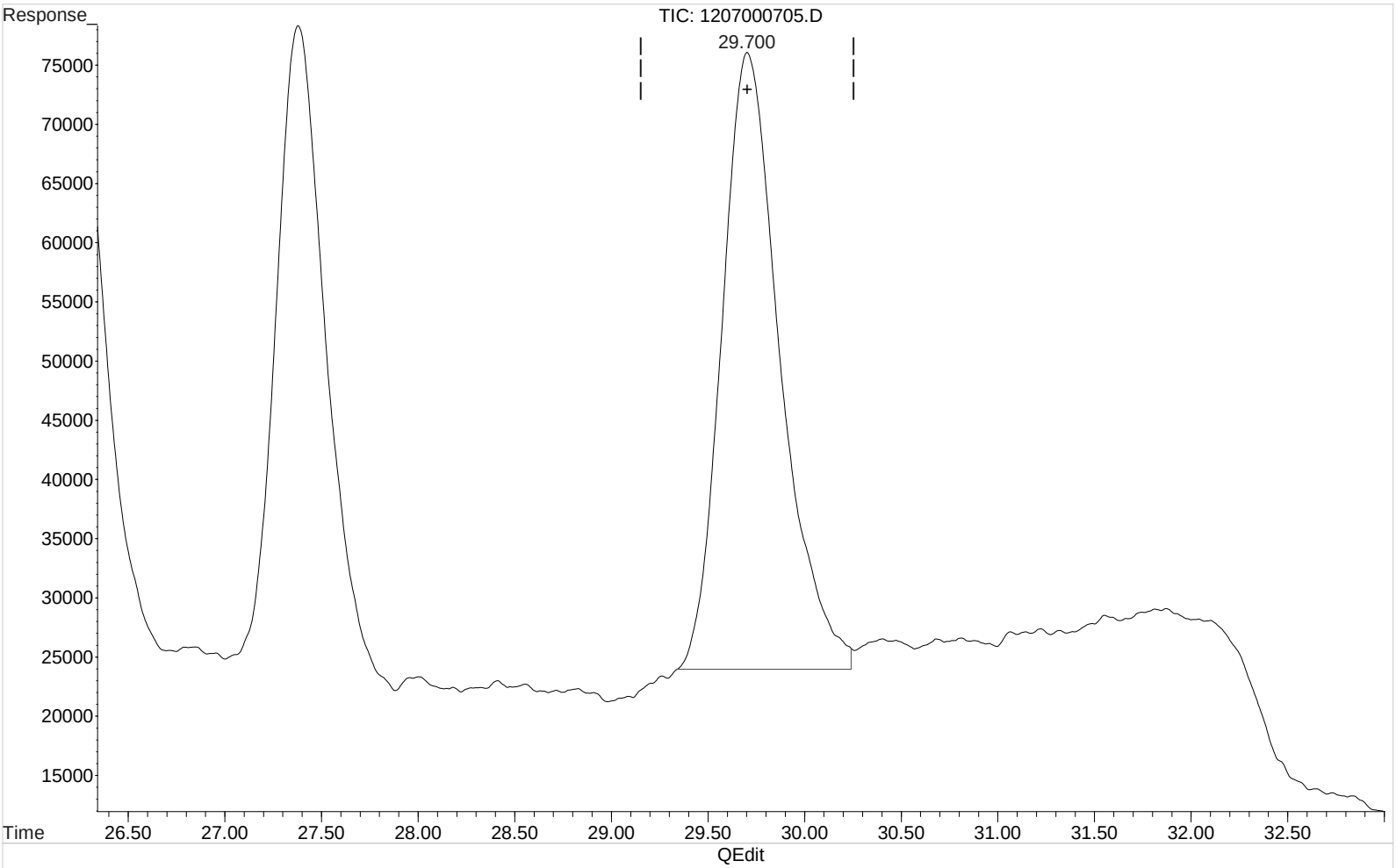
(+) = Expected Retention Time

(b)(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(18) 1-Chloro-3-Nitrobenzene (S)

29.700min 47.408 ug/L

response 1093549

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

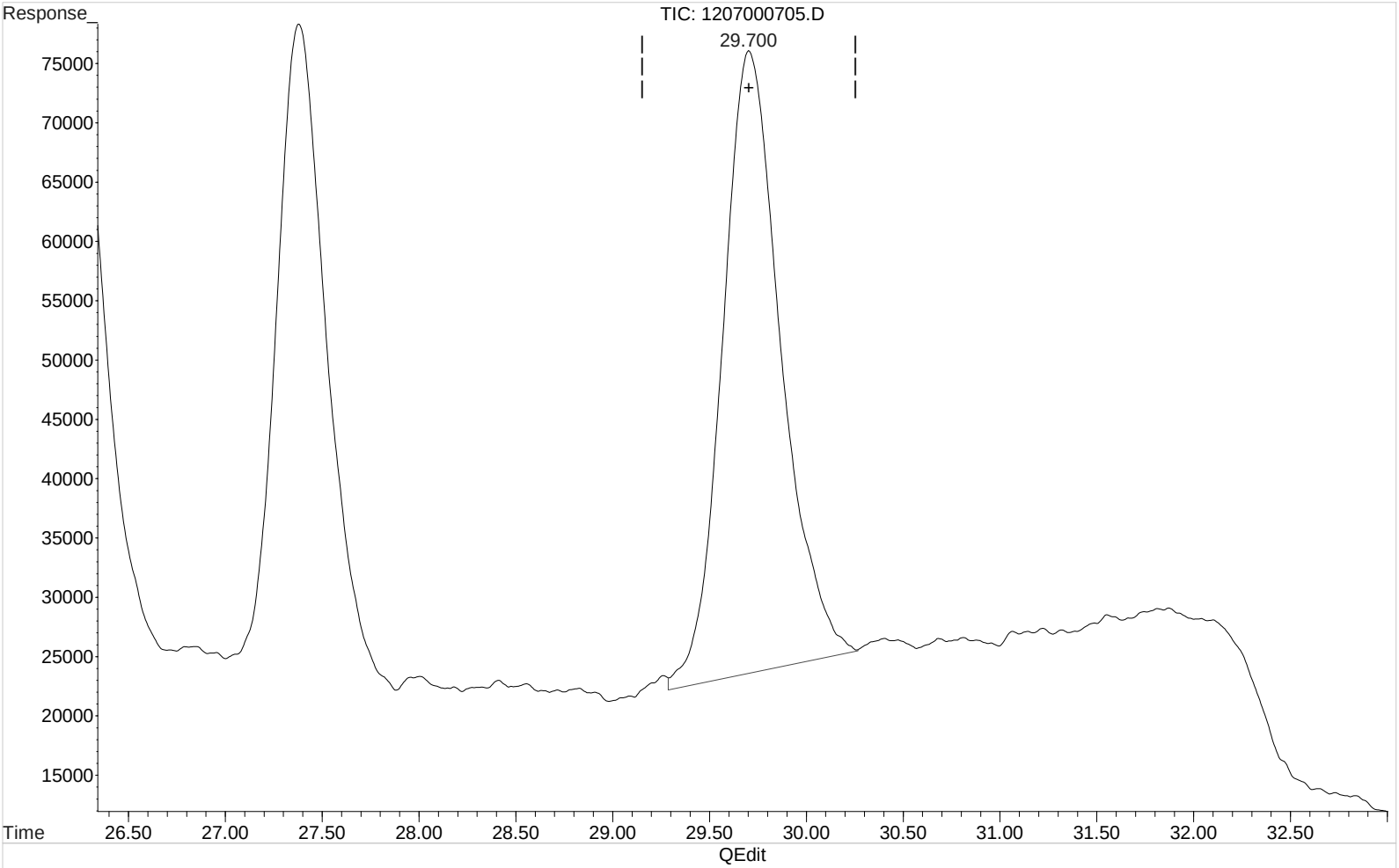
Quantitation Report (Qedit)

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(18) 1-Chloro-3-Nitrobenzene (S)

29.700min 47.809 ug/L m

response 1102787

Manual Integration:

After

BLC

12/08/16

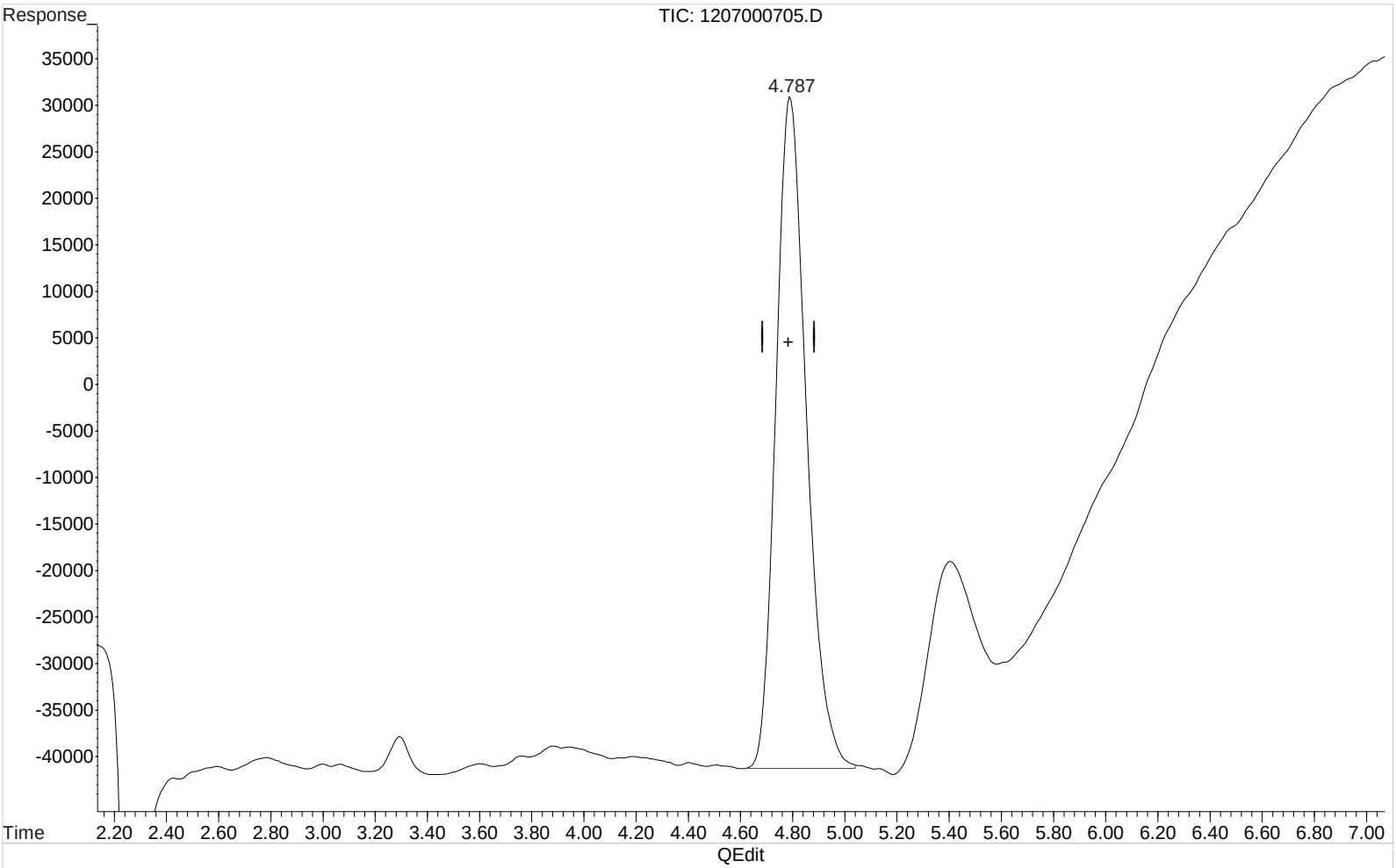
(+) = Expected Retention Time

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(2) HMX (T)

4.787min 50.576 ug/L

response 588444

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

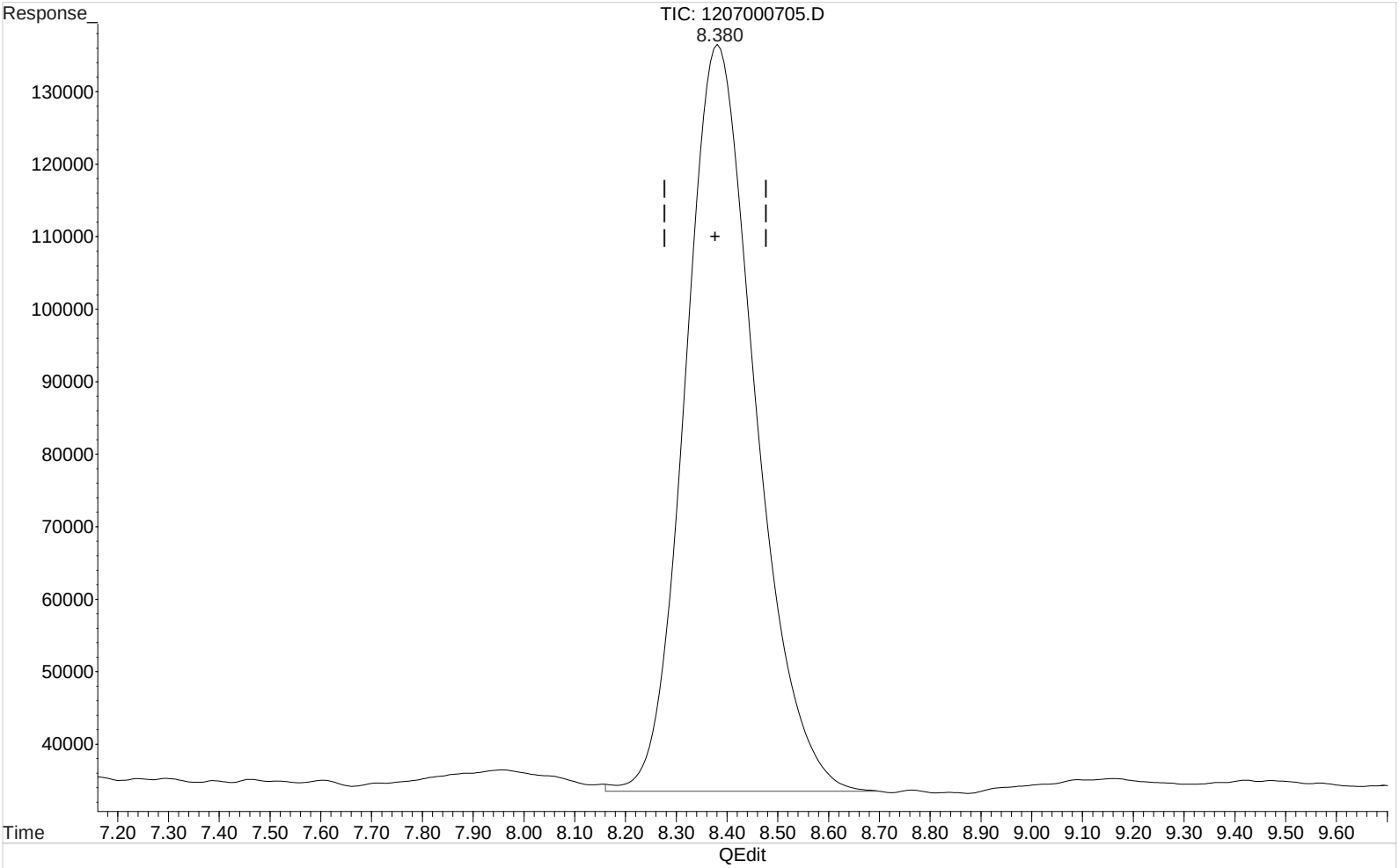
Quantitation Report (Qedit)

[redacted] (b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(4) RDX (T)

8.380min 47.162 ug/L

response 991175

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

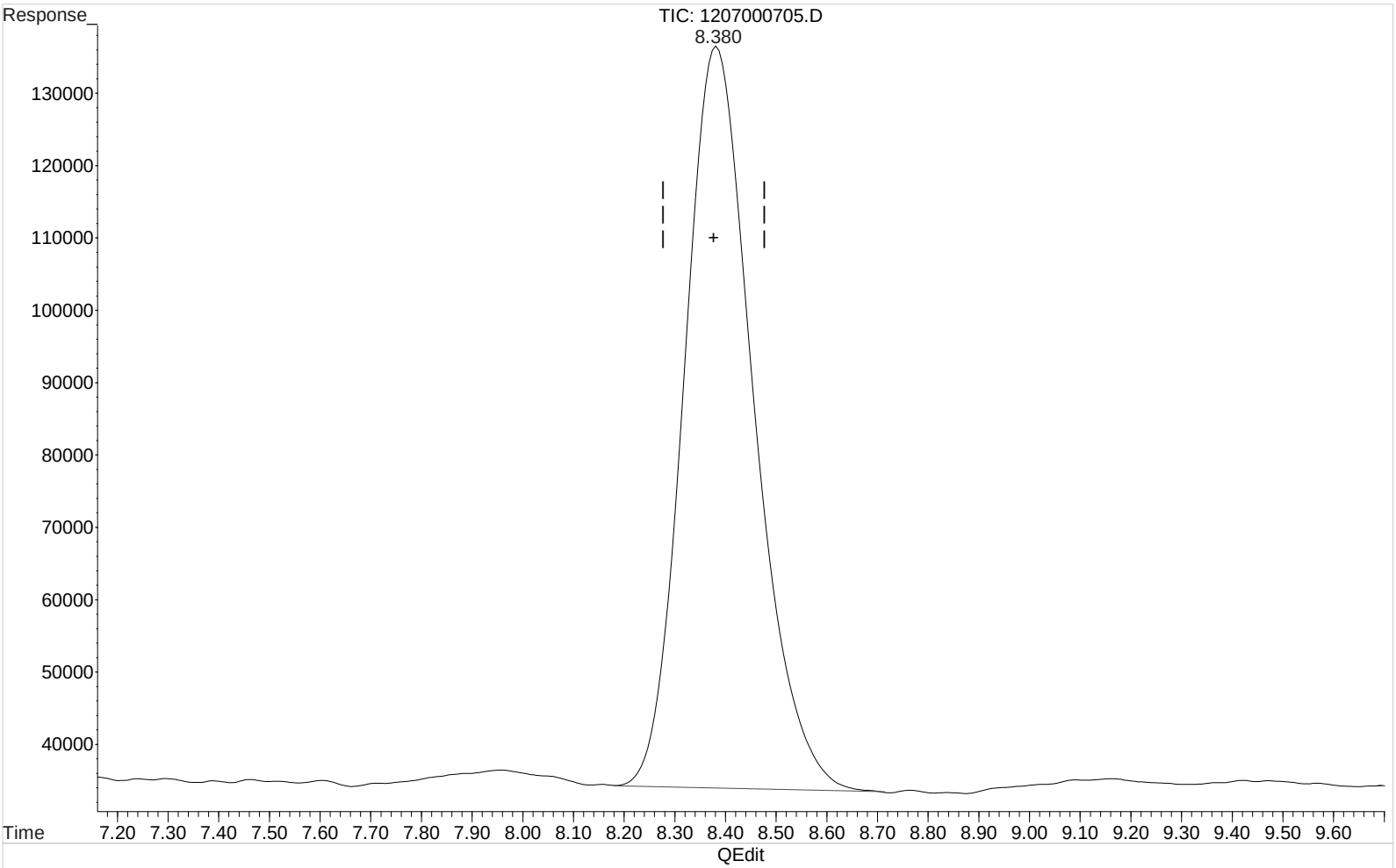
Quantitation Report (Qedit)

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(4) RDX (T)

8.380min 46.580 ug/L m

response 978940

Manual Integration:

After

BLC

12/08/16

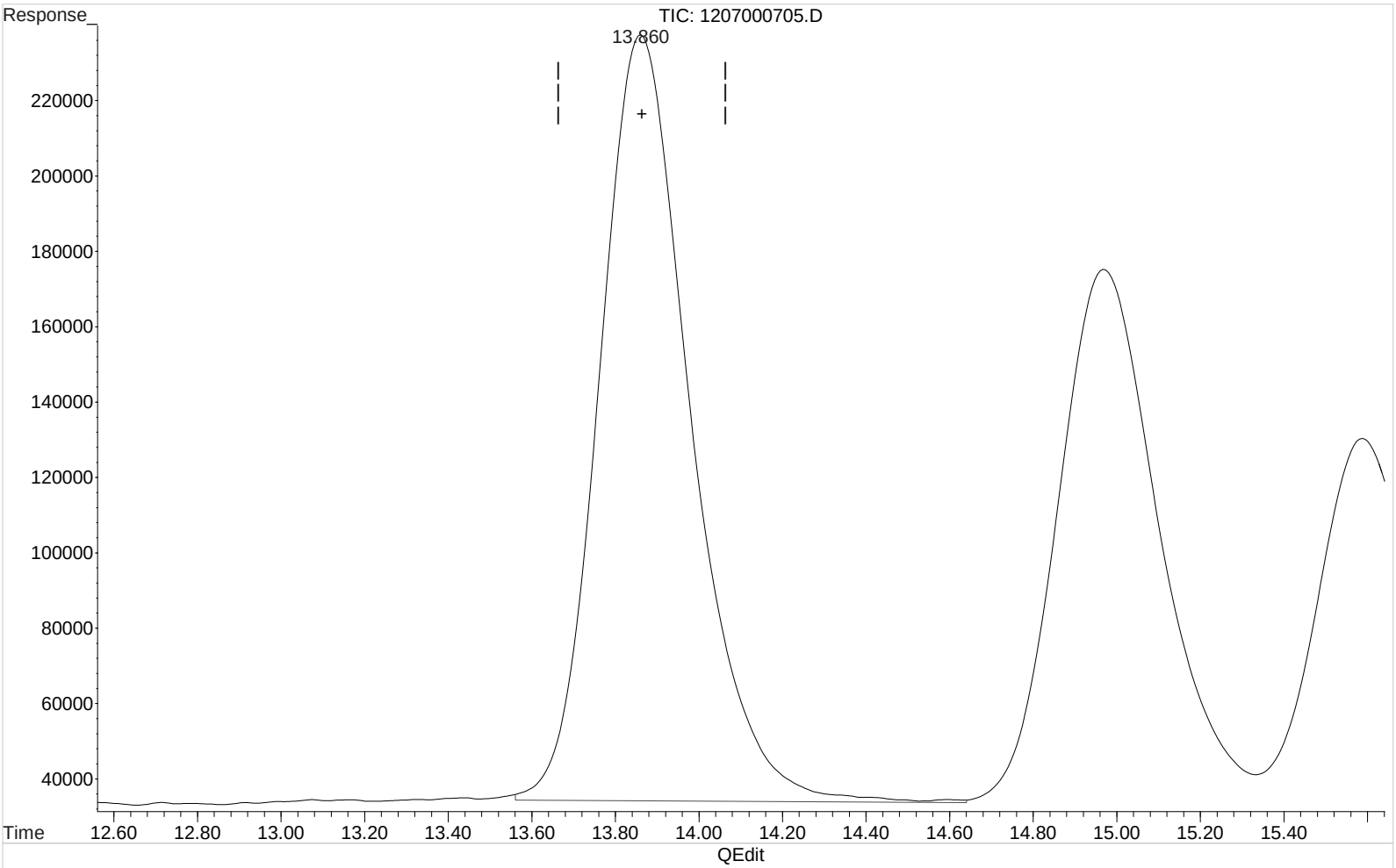
(+) = Expected Retention Time

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(6) 1,3-DNB (T)

13.860min 49.138 ug/L

response 3091980

Manual Integration:

Before

12/08/16

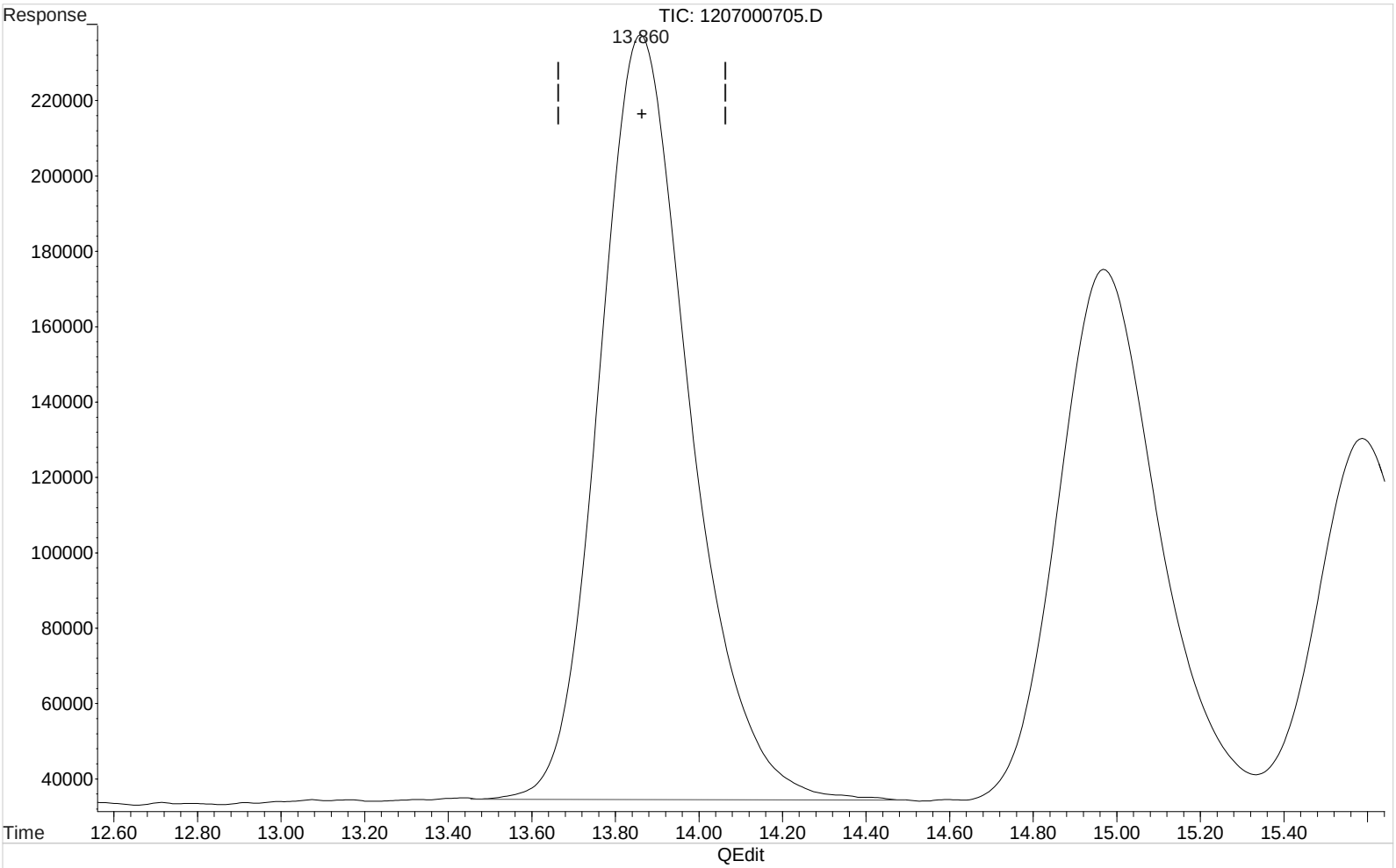
(+) = Expected Retention Time

1st (b) (6) 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(6) 1,3-DNB (T)

13.860min 48.773 ug/L m

response 3069012

Manual Integration:

After

BLC

12/08/16

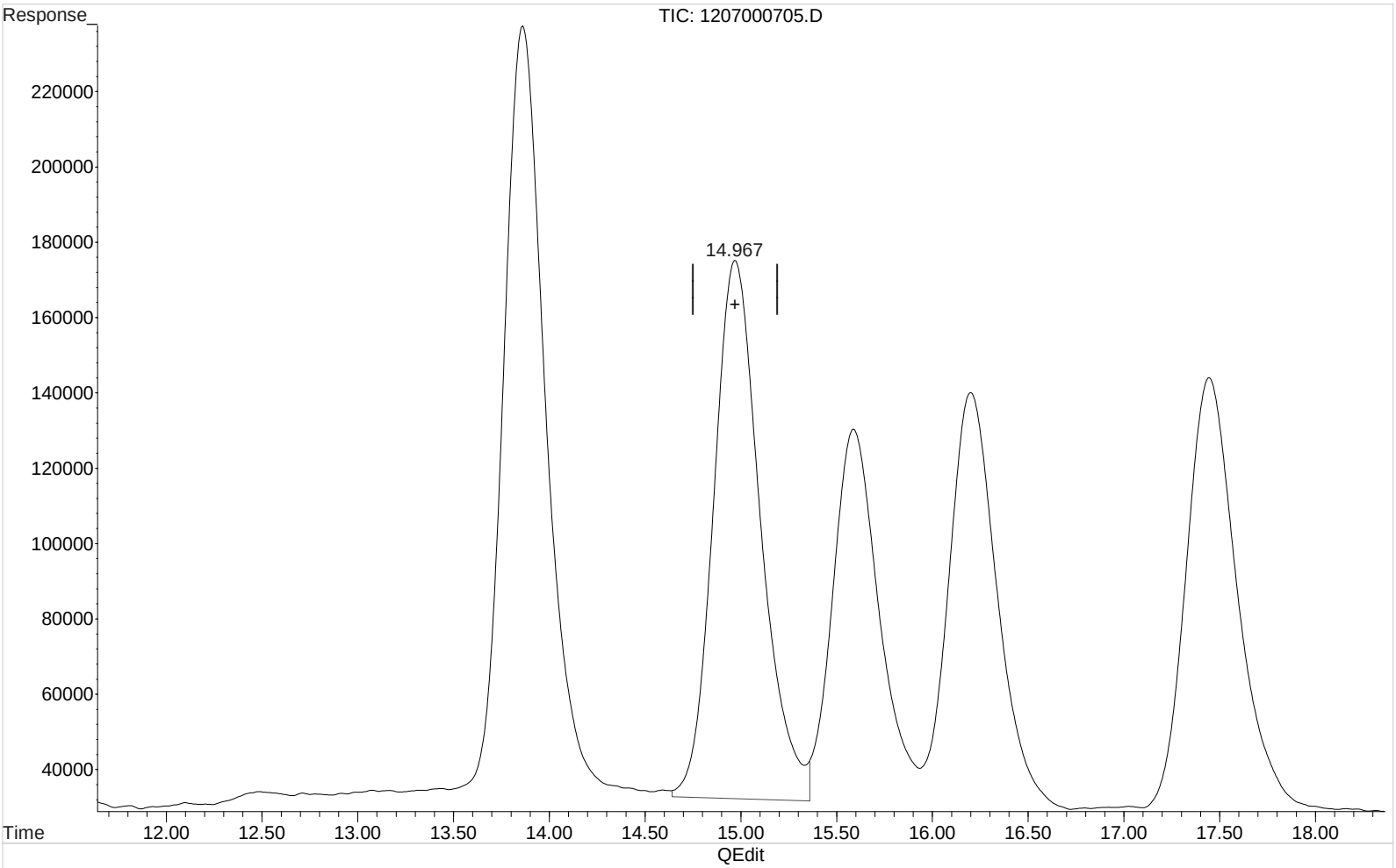
(+) = Expected Retention Time

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(7) 3,5-Dinitroaniline (T)

14.967min 50.232 ug/L

response 2450718

Manual Integration:

Before

12/08/16

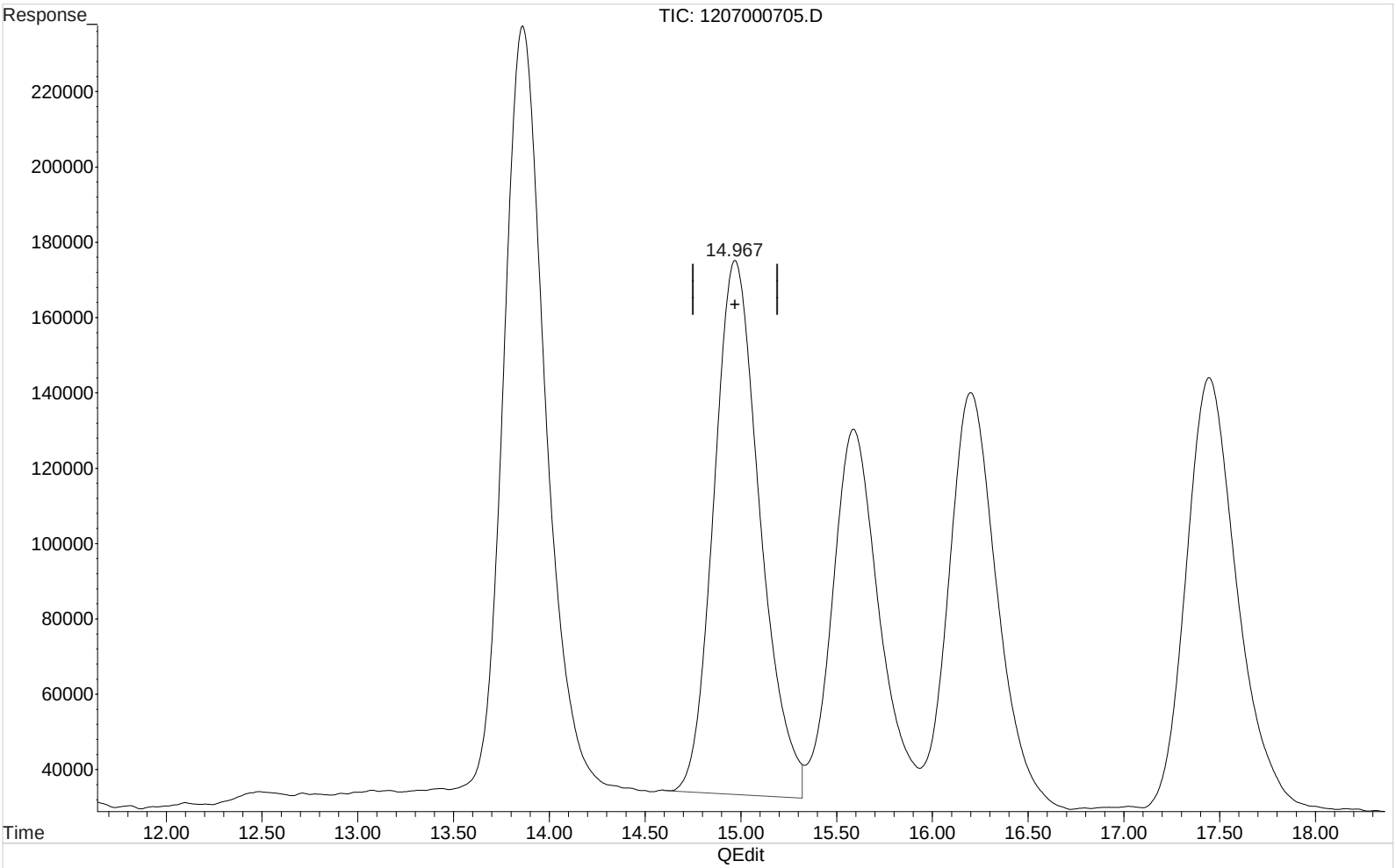
(+) = Expected Retention Time

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(7) 3,5-Dinitroaniline (T)

14.967min 48.826 ug/L m

response 2382128

Manual Integration:

After

BLC

12/08/16

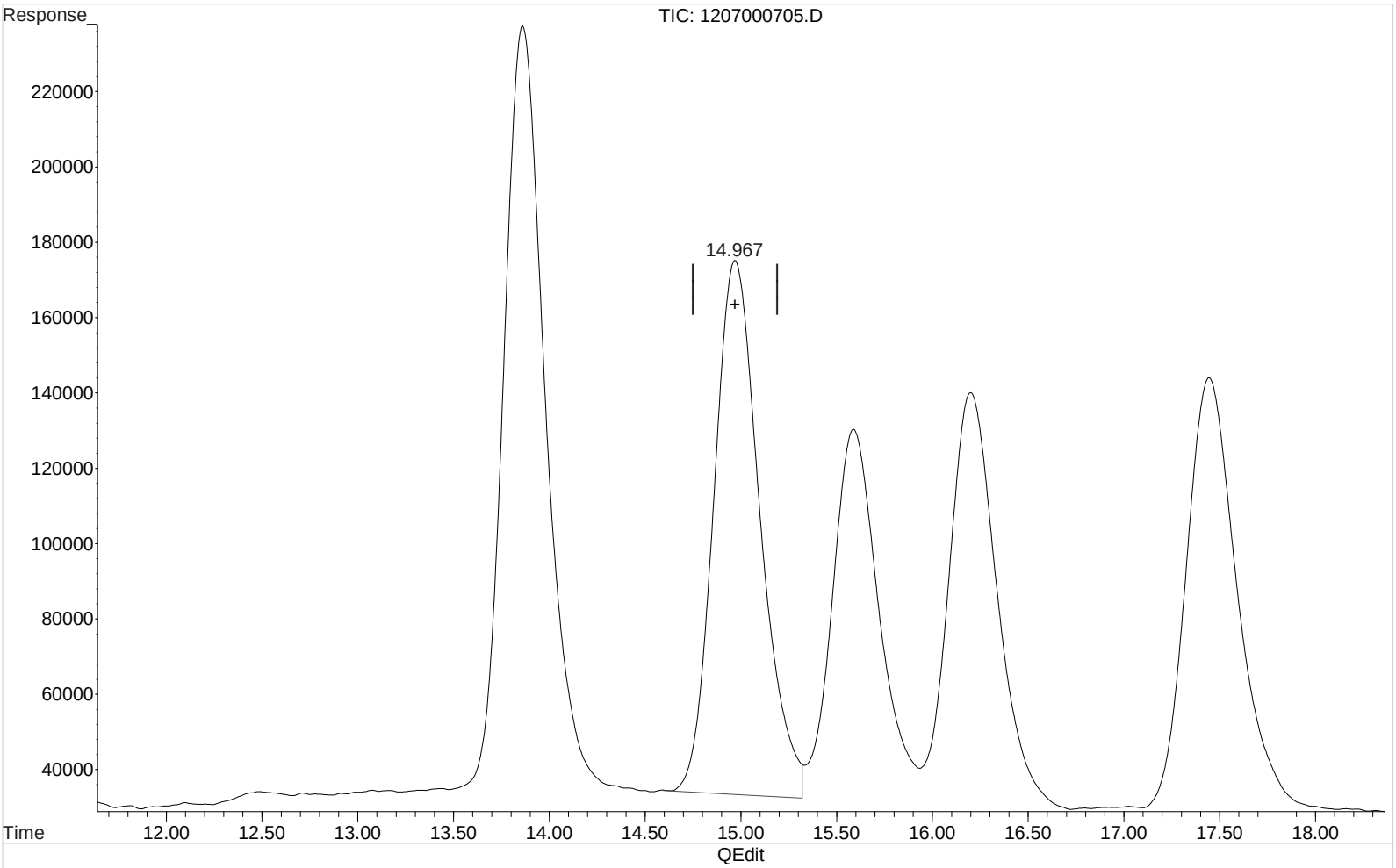
(+) = Expected Retention Time

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(7) 3,5-Dinitroaniline (T)

14.967min 48.826 ug/L m

response 2382128

Manual Integration:

After

NO BEFORE, ACCIDENTAL INT

12/08/16

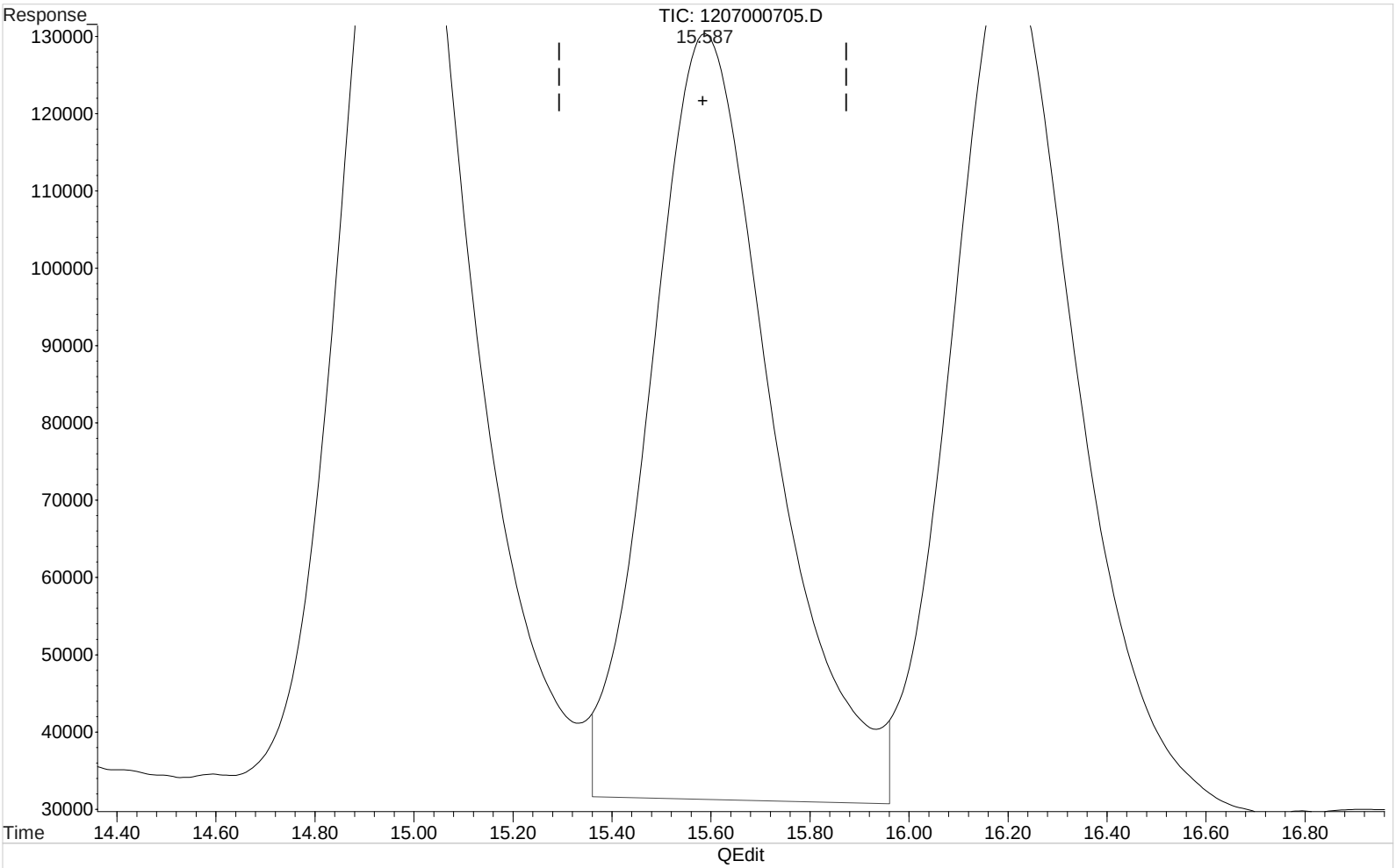
(+) = Expected Retention Time

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.587min 49.926 ug/L

response 1682029

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

Quantitation Report (Qedit)

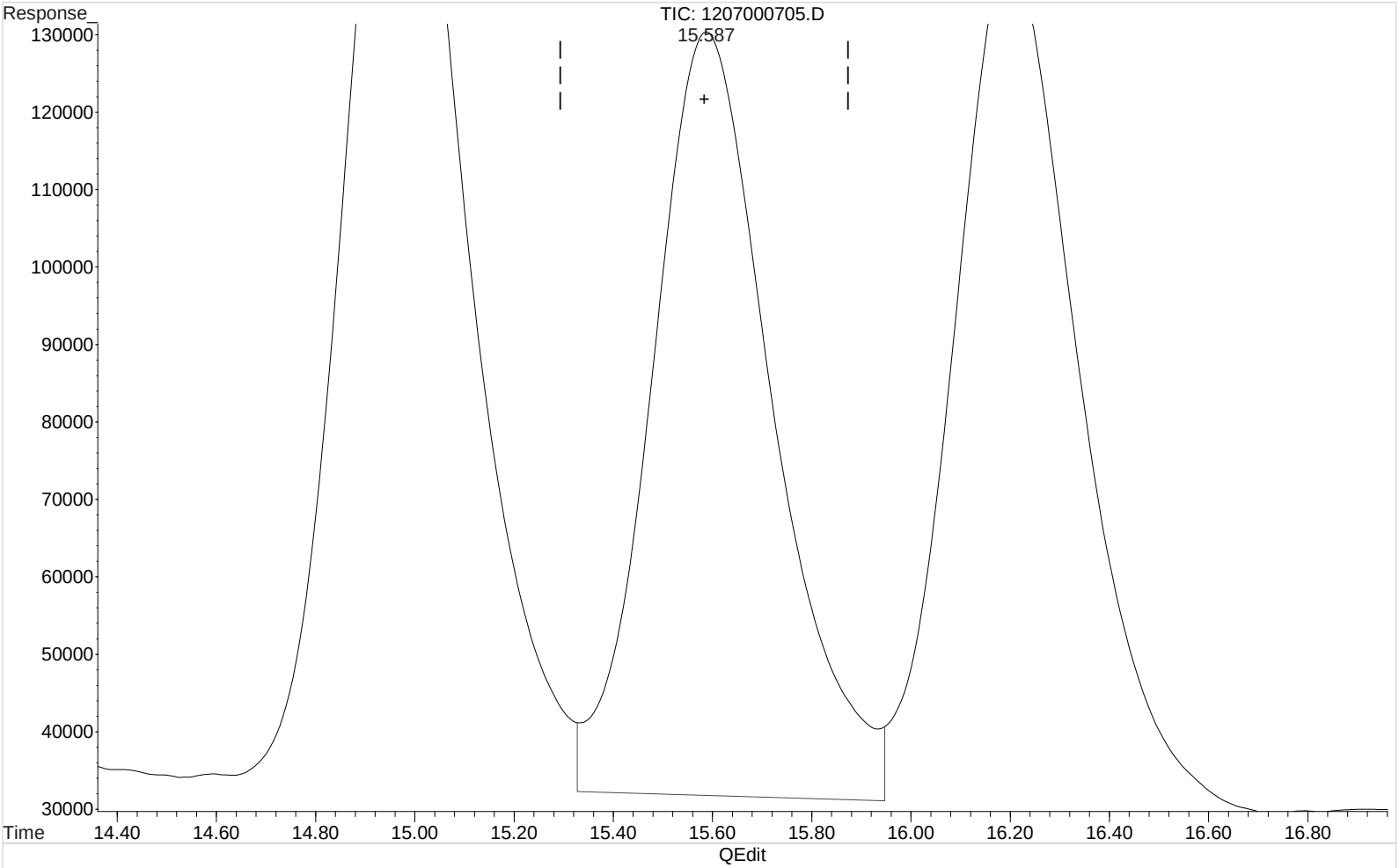
(b)(6)

1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.587min 49.760 ug/L m

response 1676426

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

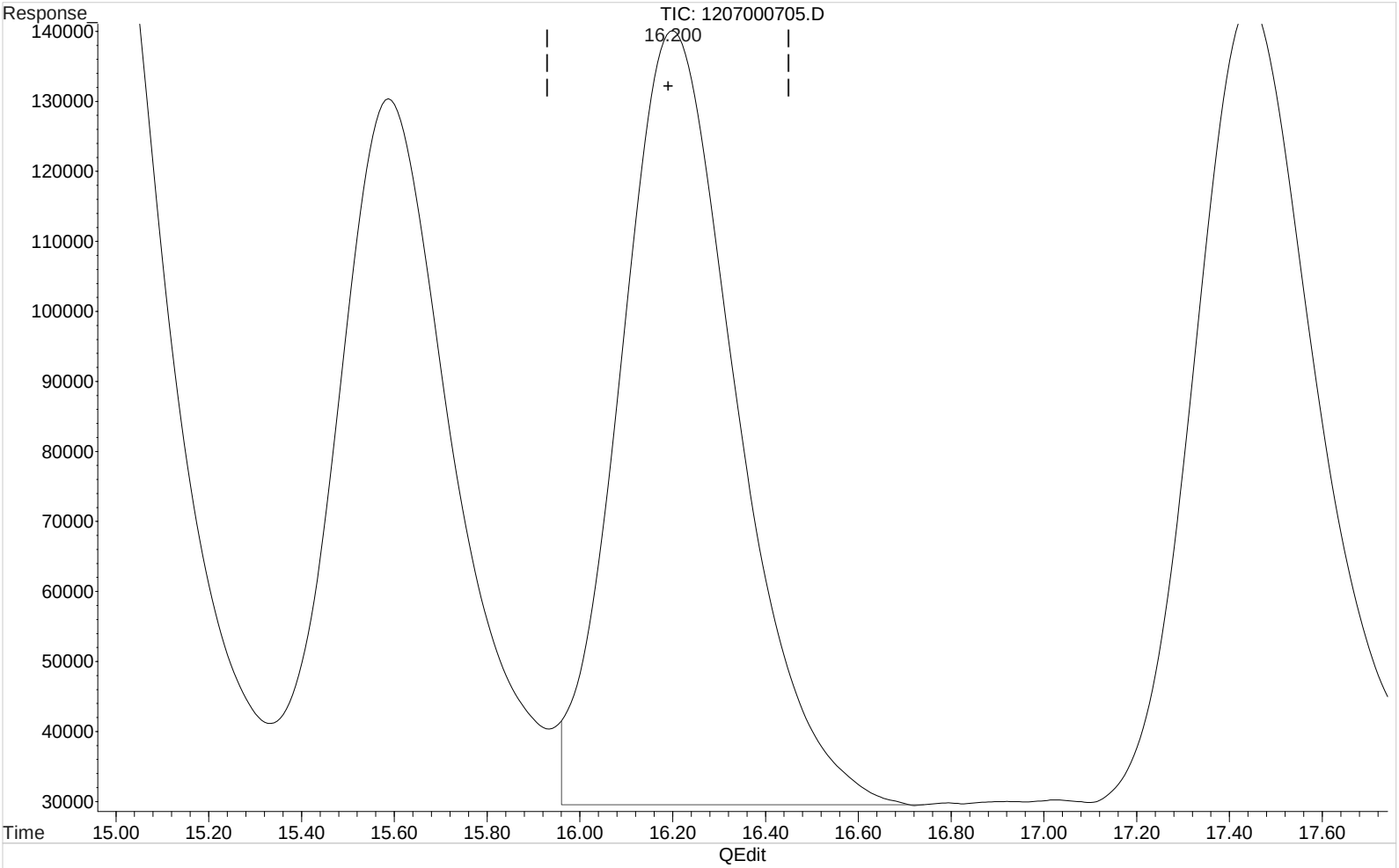
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(9) Nitrobenzene (T)

16.200min 48.909 ug/L

response 1926694

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

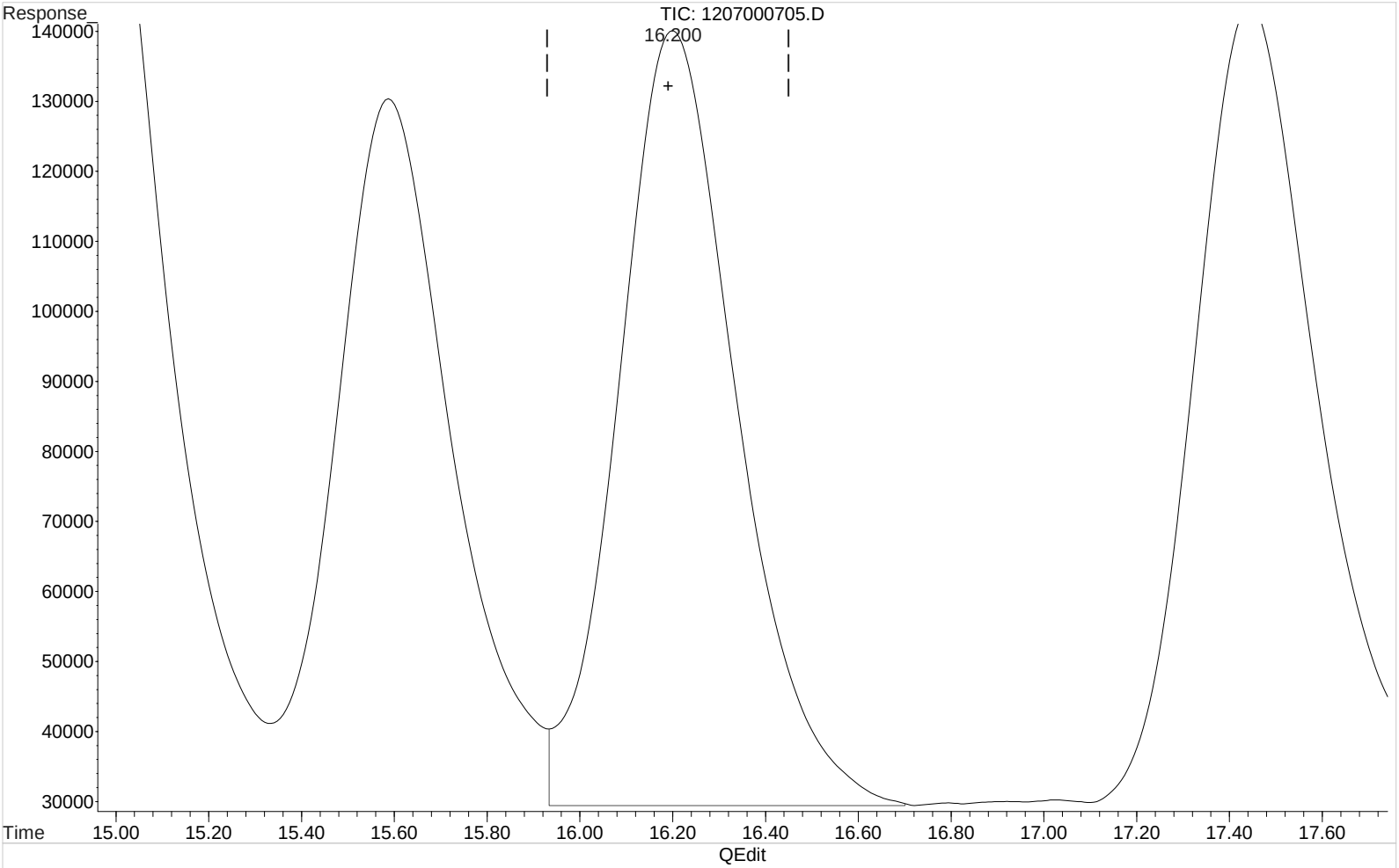
Quantitation Report (Qedit)

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.200min 49.519 ug/L m

response 1950750

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:06:56 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
18)	S	1-Chloro-3-Nitrobenzene	29.688	2222660	98.517	ug/L	m
		Target Compounds					
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	4.788	1216166	103.579	ug/L	
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	8.381	1985238	97.807	ug/L	m
5)	T	1,3,5-TNB	10.521	4433120	97.549	ug/L	m
6)	T	1,3-DNB	13.861	5956080	95.830	ug/L	
7)	T	3,5-Dinitroaniline	14.975	4770181	98.935	ug/L	m
8)	T	Tetryl	15.588	3353341	99.774	ug/L	m
9)	T	Nitrobenzene	16.201	3828698	97.660	ug/L	m
10)	T	2,4,6-TNT	17.441	4139905	101.107	ug/L	
11)	T	4-Amino-2,6-DNT	19.215	2969829	103.131	ug/L	m
12)	T	2-Amino-4,6-DNT	20.048	4166626	93.333	ug/L	
13)	T	2,6-DNT	21.748	2380424	NoCal	ug/L	m
14)	T	2,4-DNT	22.201	5893843	101.023	ug/L	m
15)	T	2-NT	25.321	1803120	100.899	ug/L	
16)	T	4-NT	26.241	1643208	102.283	ug/L	m
17)	T	3-NT	27.361	2049432	101.964	ug/L	m

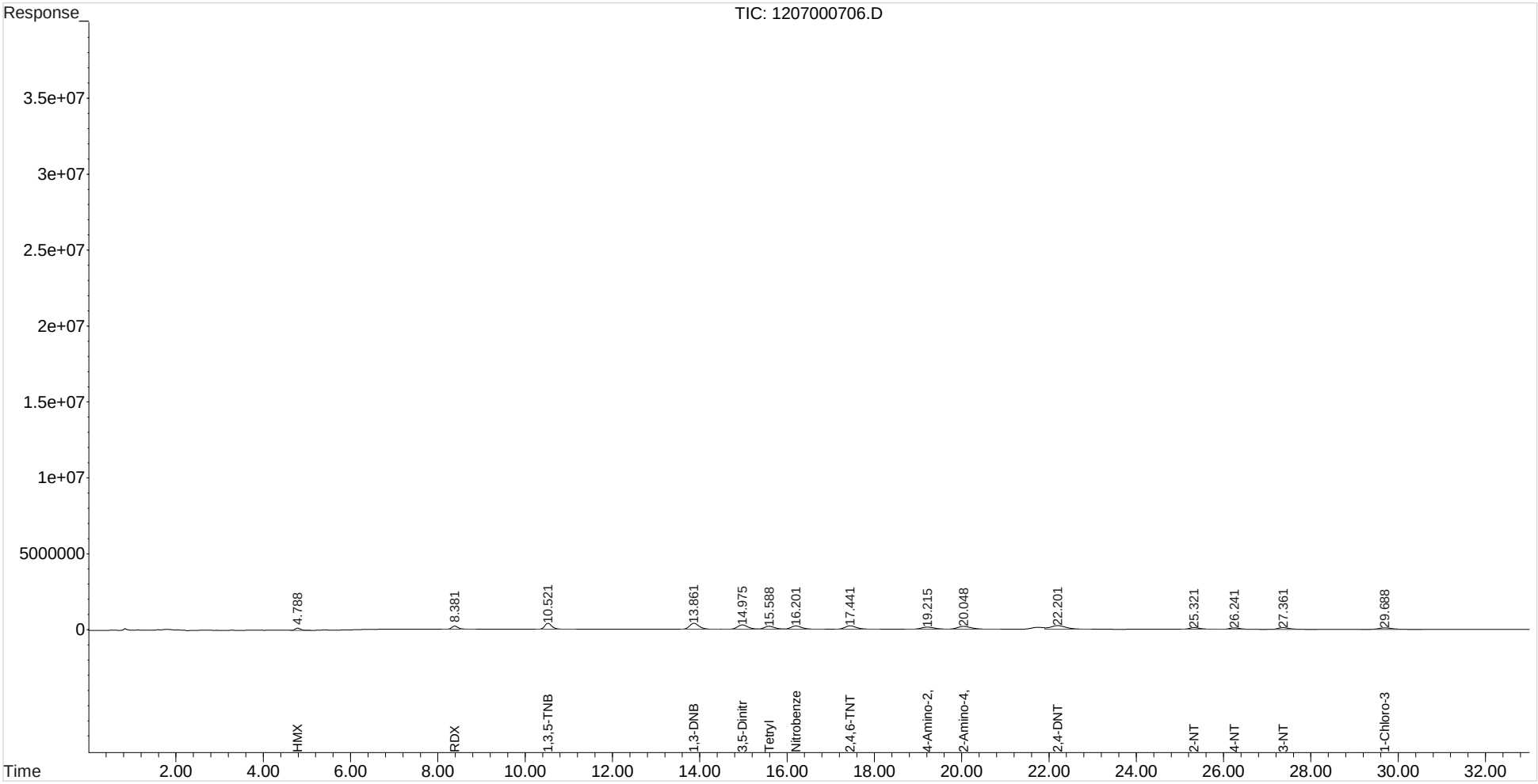
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:06:56 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

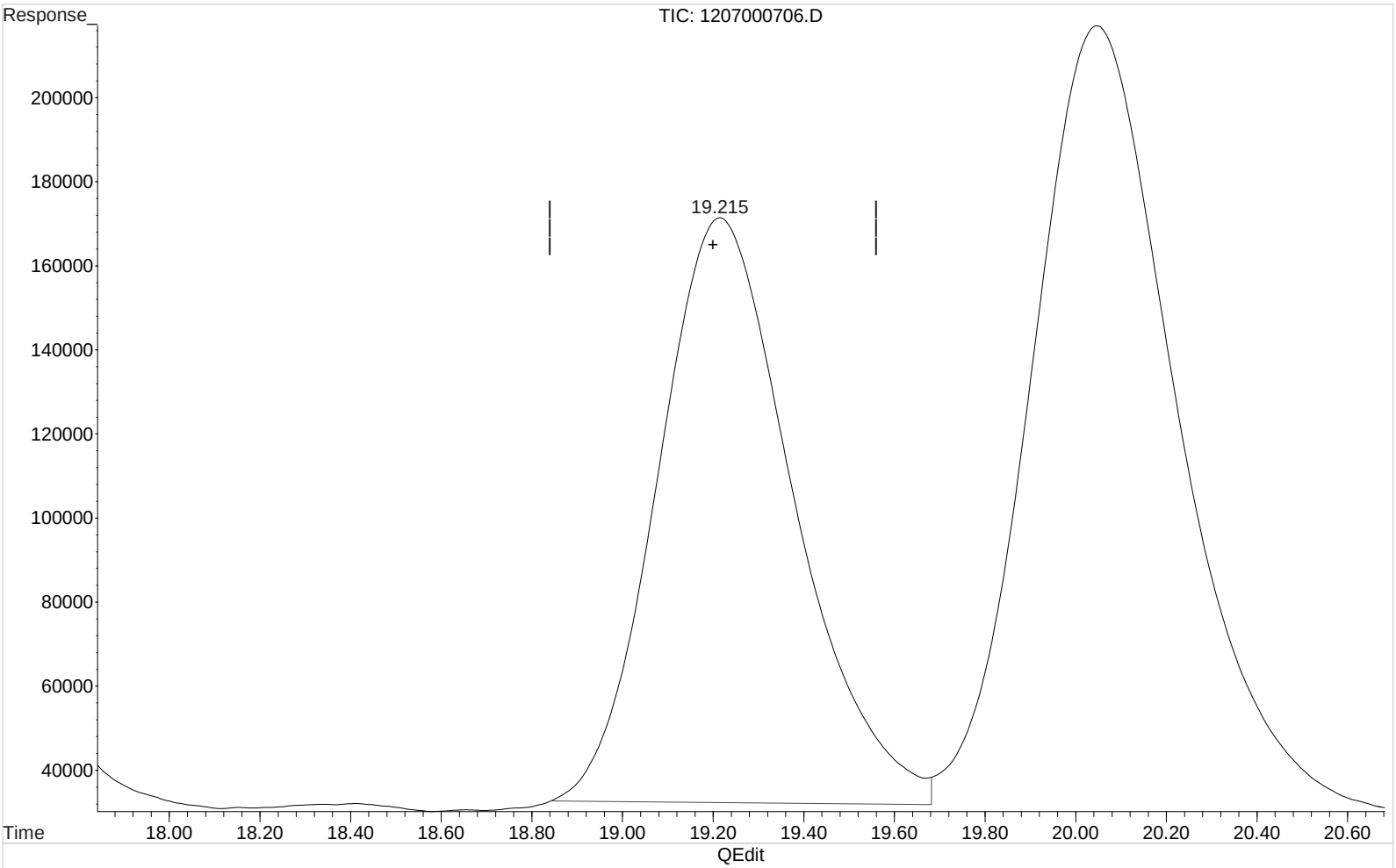


(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(11) 4-Amino-2,6-DNT (T)

19.215min 100.578 ug/L

response 2896316

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

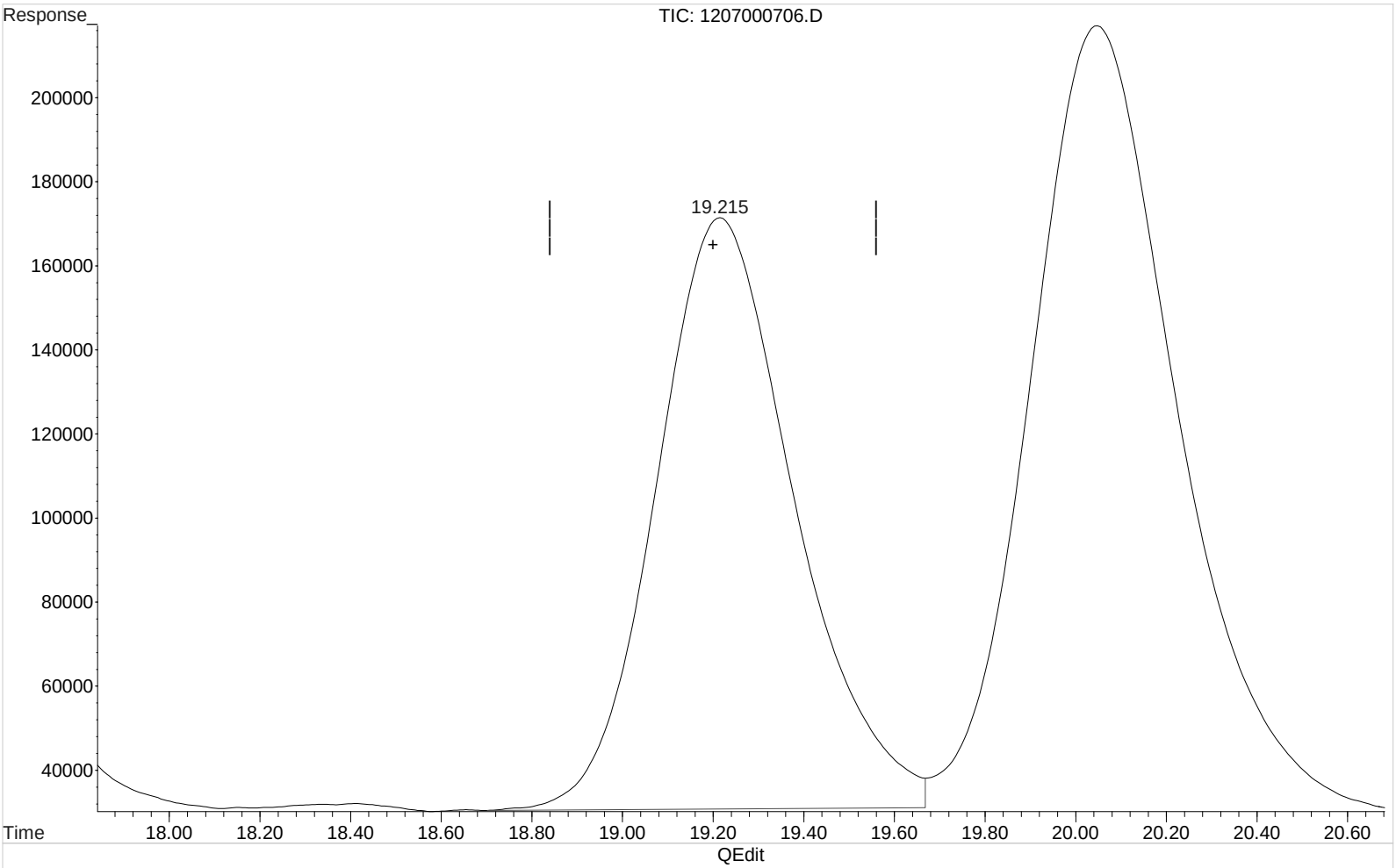
(b)(6)

1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(11) 4-Amino-2,6-DNT (T)

19.215min 103.131 ug/L m

response 2969829

Manual Integration:

After

BLC

12/08/16

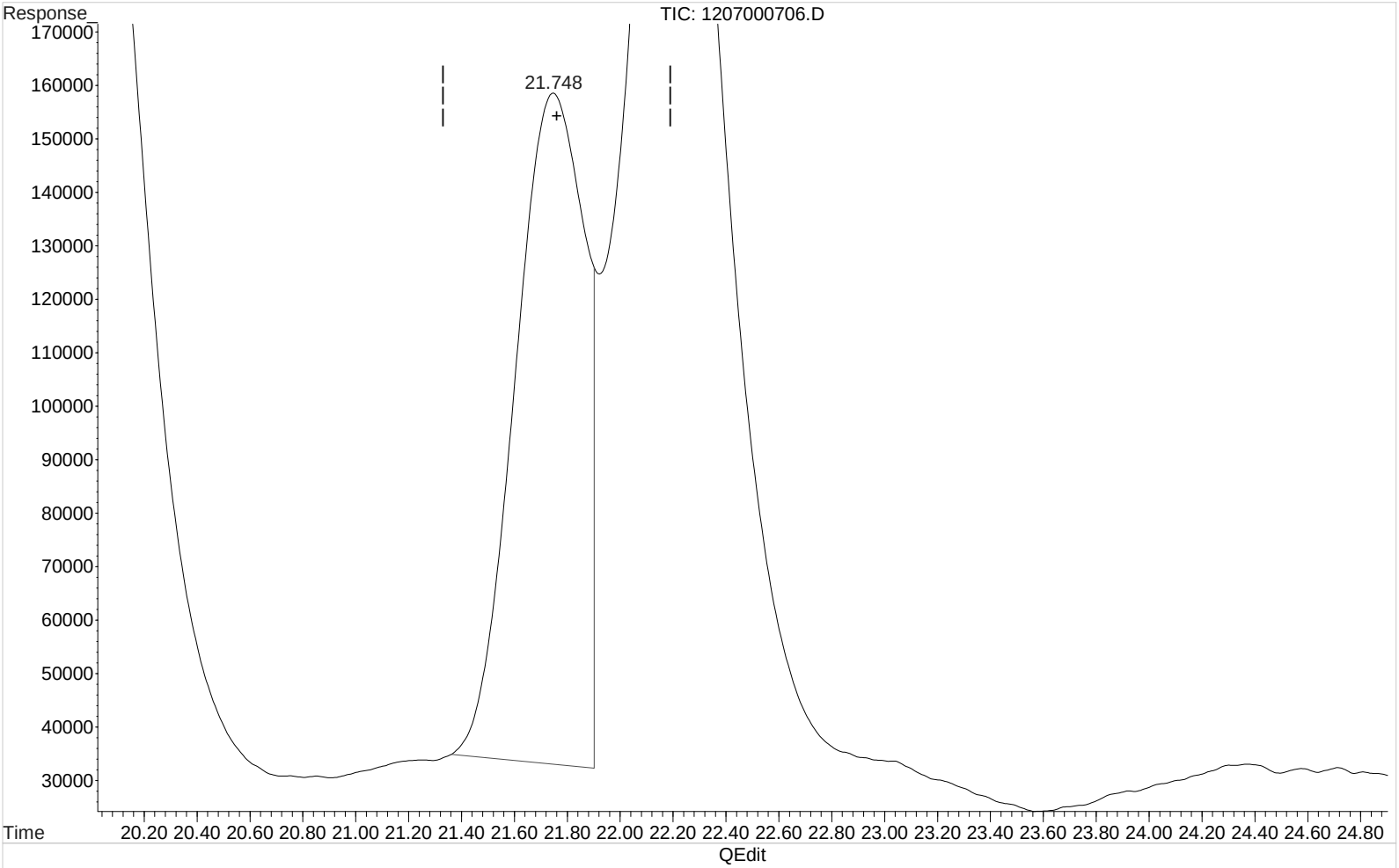
(+) = Expected Retention Time

(b)(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.748min 0.000 ug/L

response 2294444

Manual Integration:

Before

12/08/16

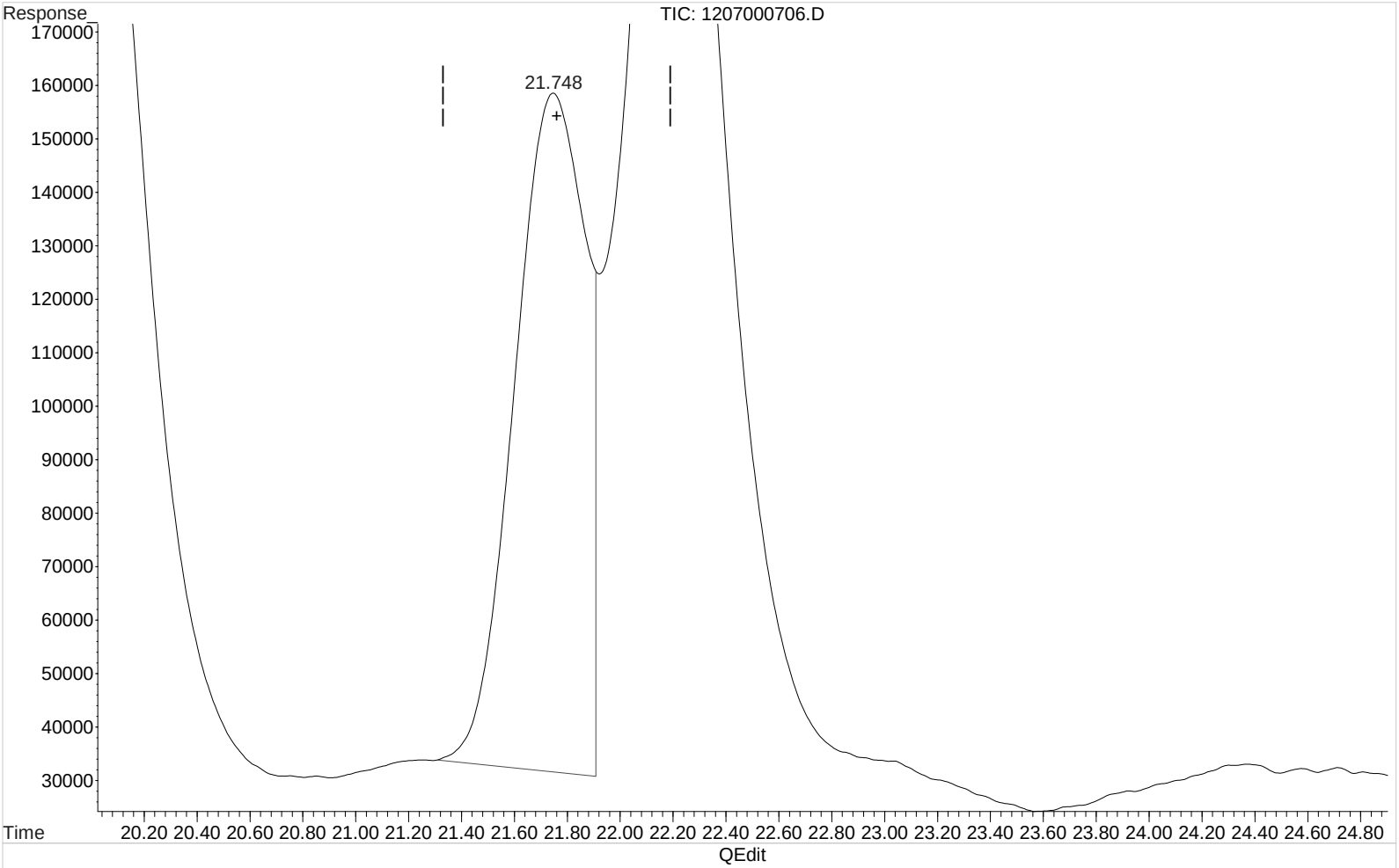
(+) = Expected Retention Time

1st (b) (6) 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.748min 0.000 ug/L m

response 2380424

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b)(6)

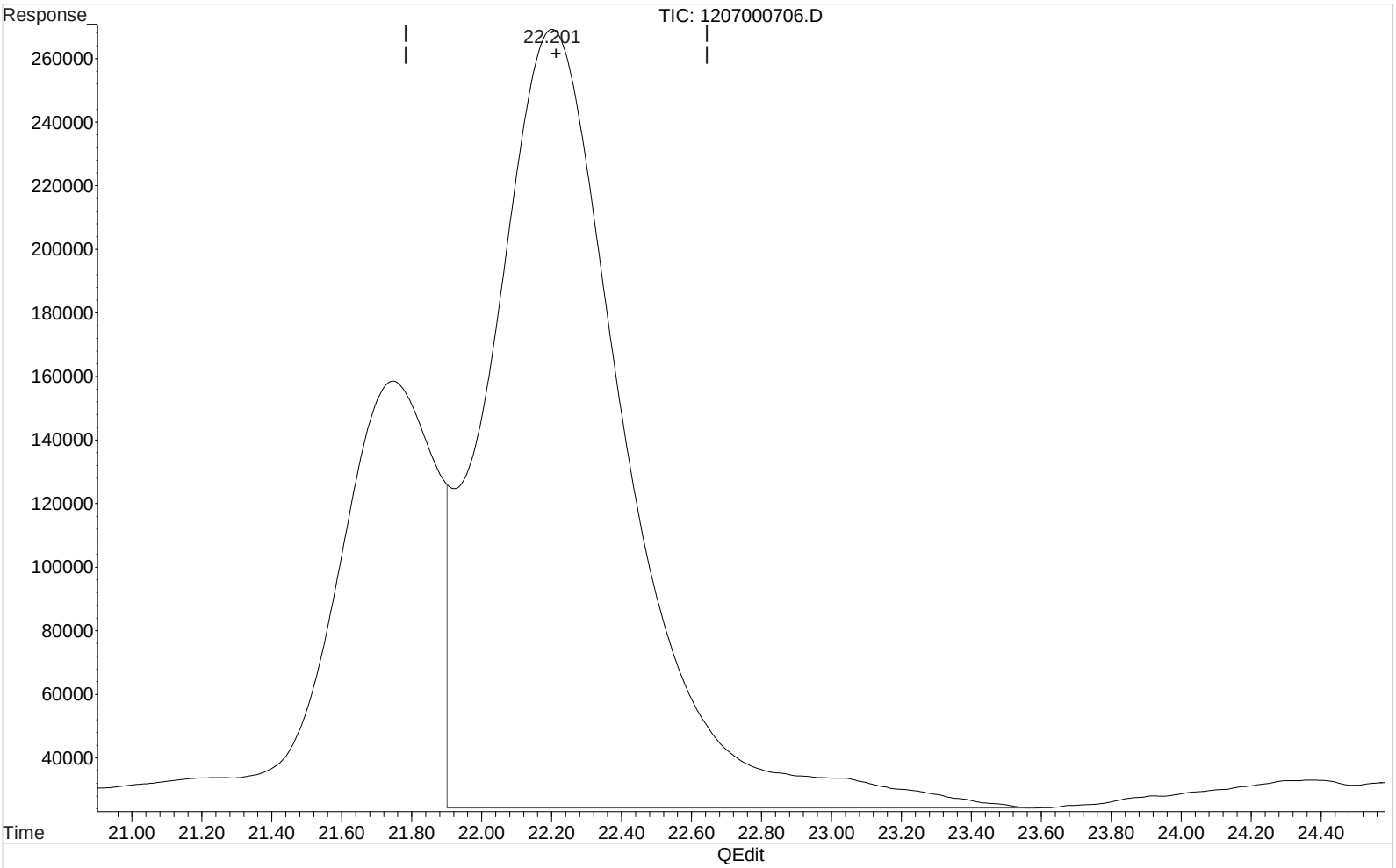
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.201min 114.241 ug/L

response 6665030

Manual Integration:

Before

12/08/16

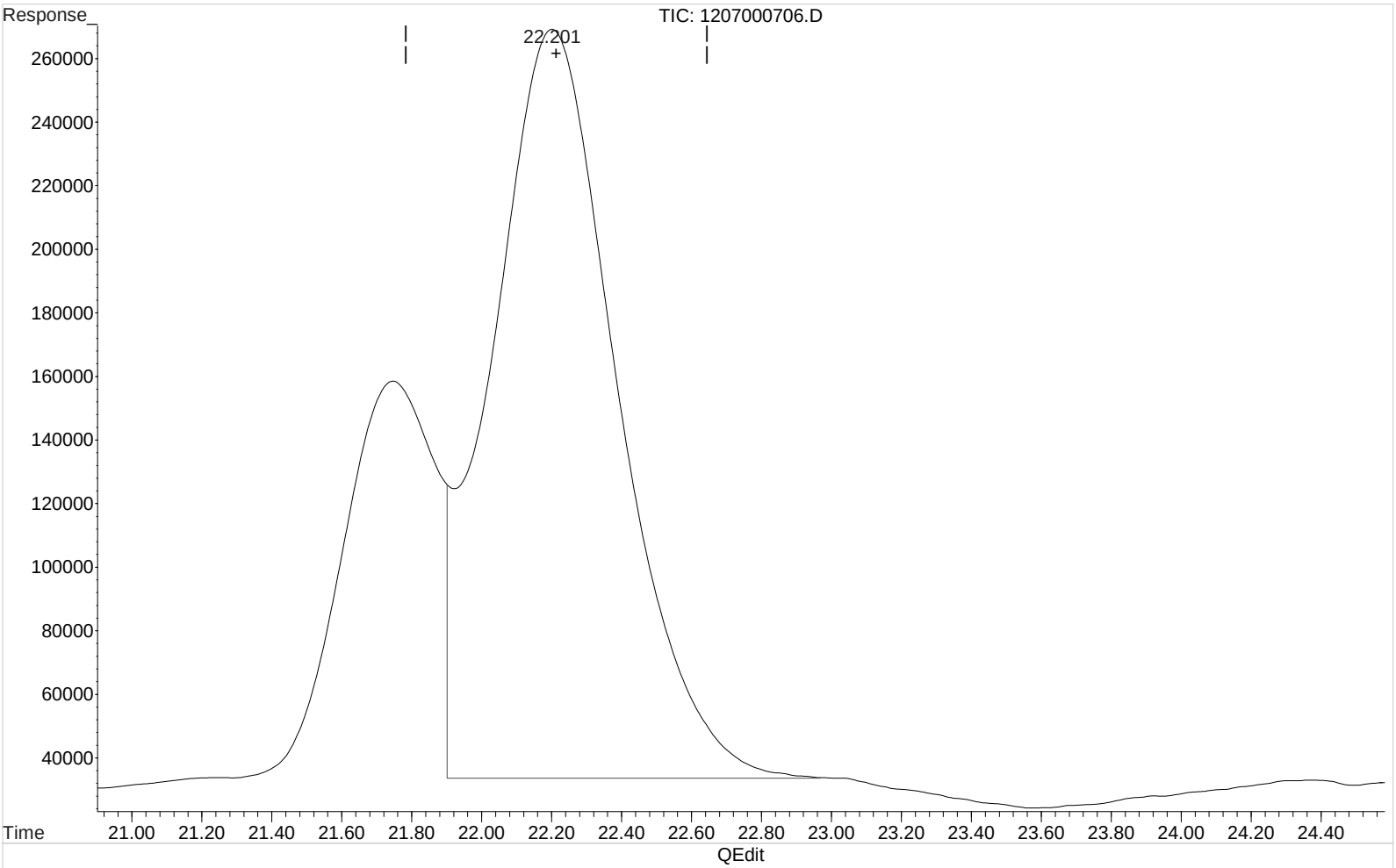
(+) = Expected Retention Time

(b)(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.201min 101.023 ug/L m

response 5893843

Manual Integration:

After

BLC

12/08/16

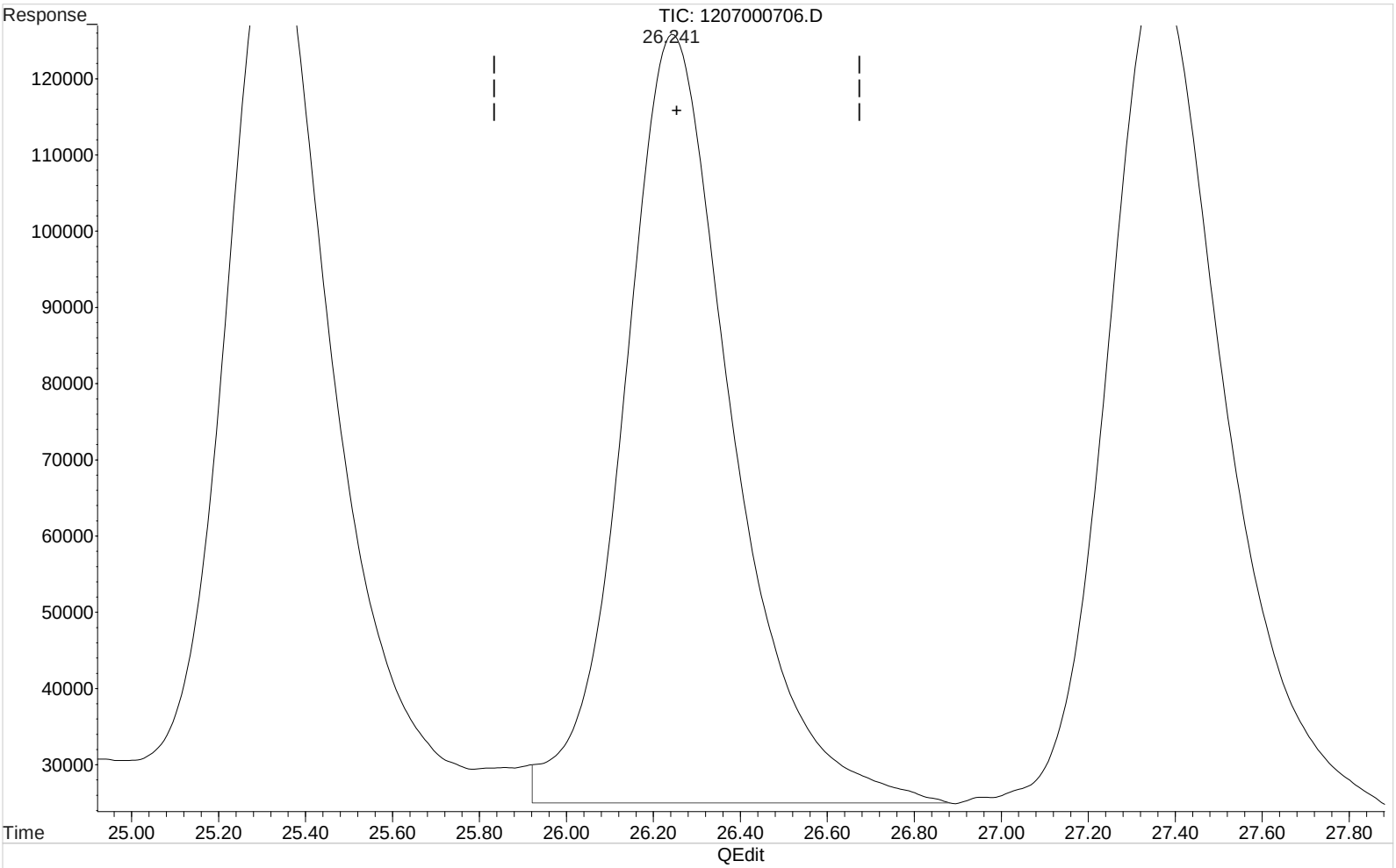
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.241min 109.482 ug/L

response 1758863

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b)(6)

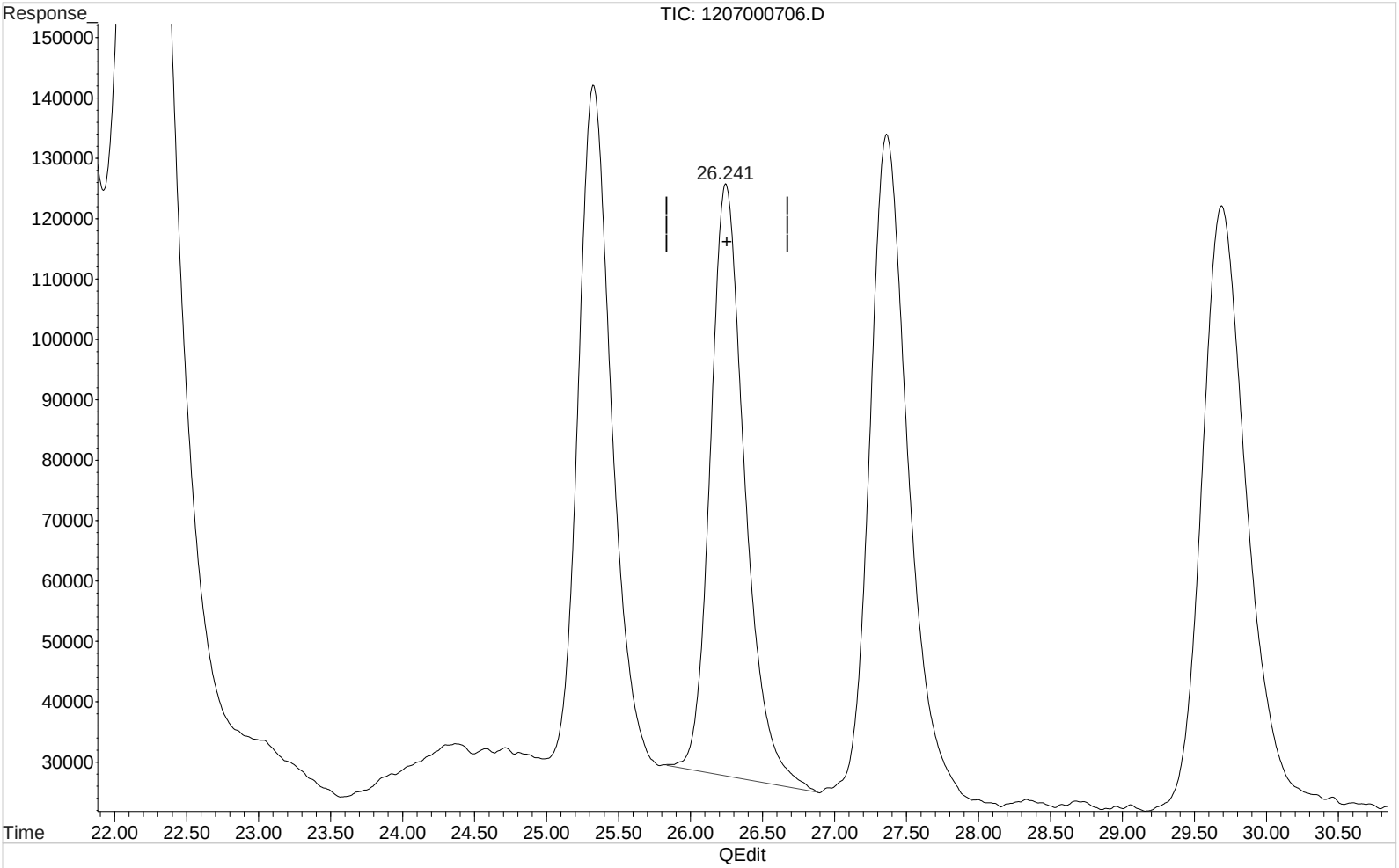
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(16) 4-NT (T)

26.241min 102.283 ug/L m

response 1643208

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

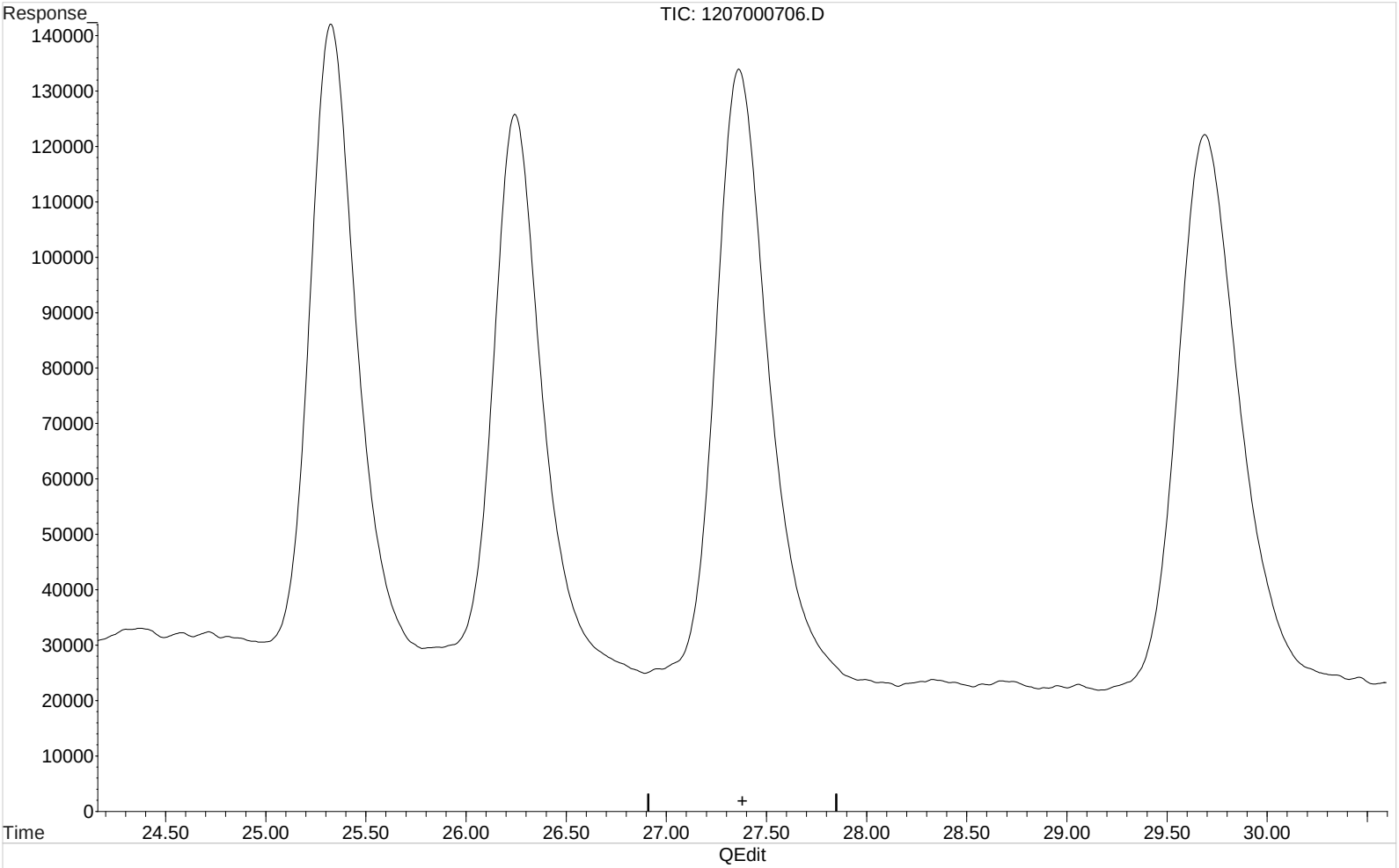
Quantitation Report (Qedit)

1st (b) (6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

0.000min 0.000 ug/L d

response 0

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

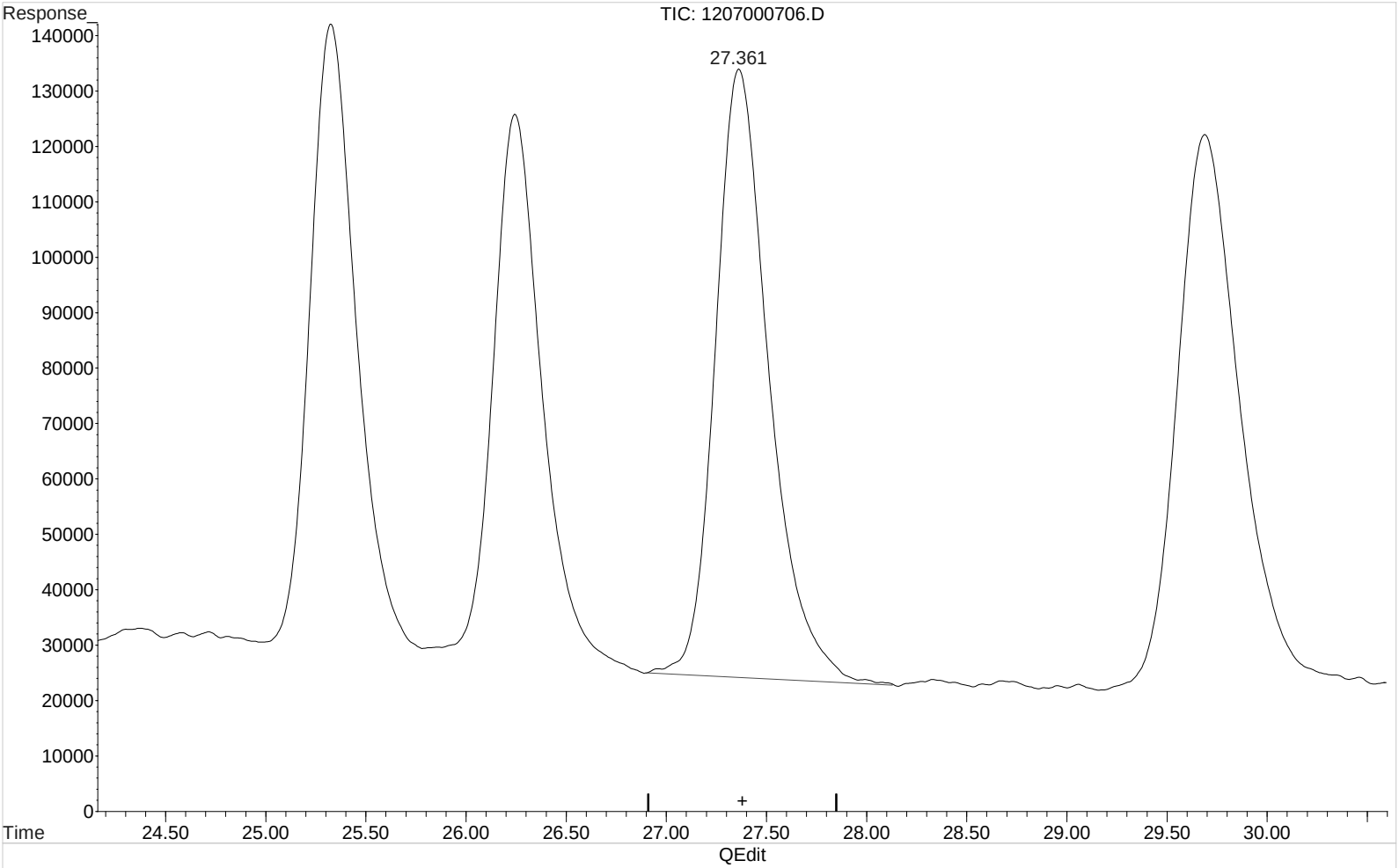
Quantitation Report (Qedit)

1st (b) (6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.361min 101.964 ug/L m

response 2049432

Manual Integration:

After

Accidentally deleted, reintegrated

12/08/16

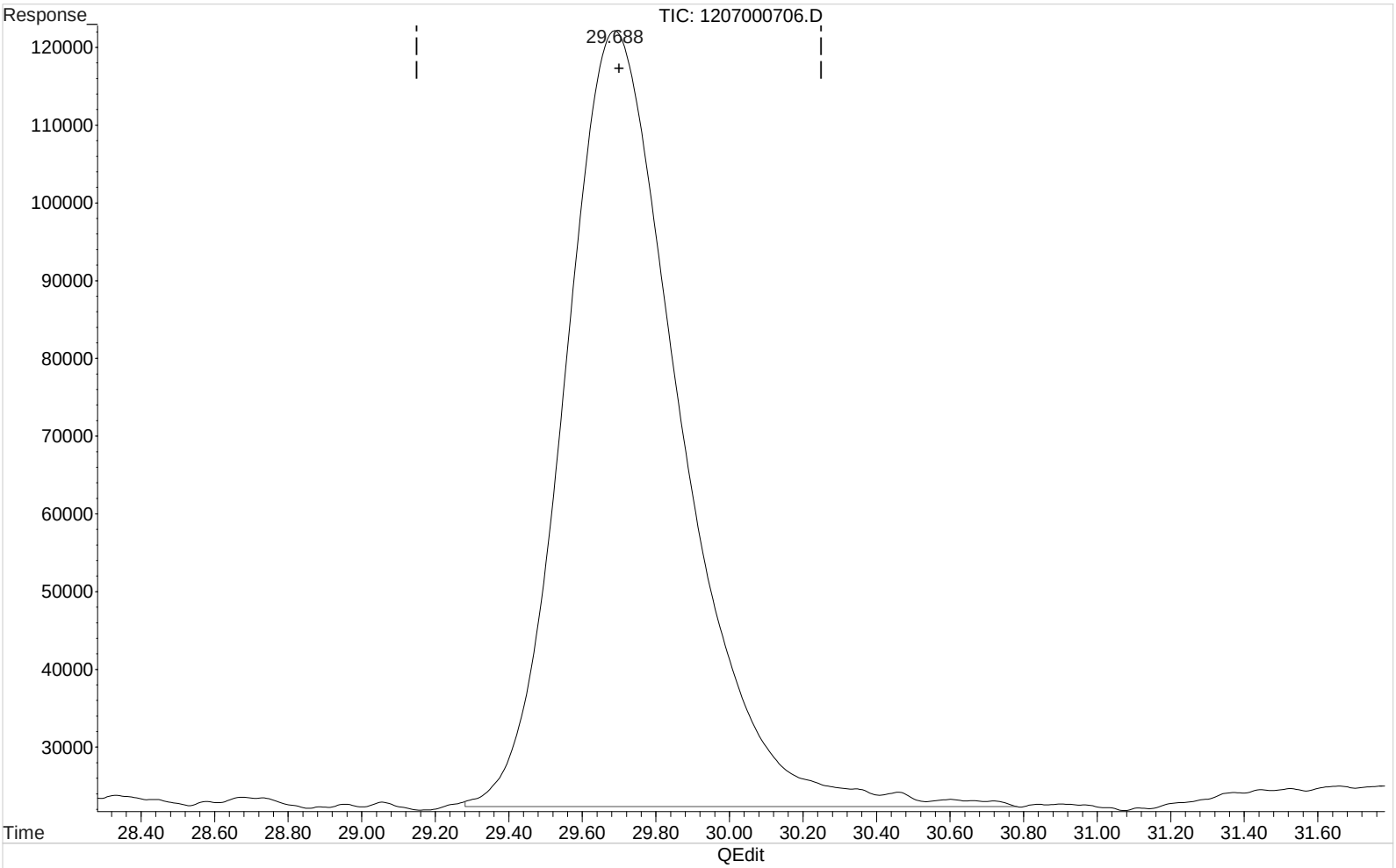
(+) = Expected Retention Time

1st [redacted] 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(18) 1-Chloro-3-Nitrobenzene (S)

29.688min 97.323 ug/L

response 2195729

Manual Integration:

Before

12/08/16

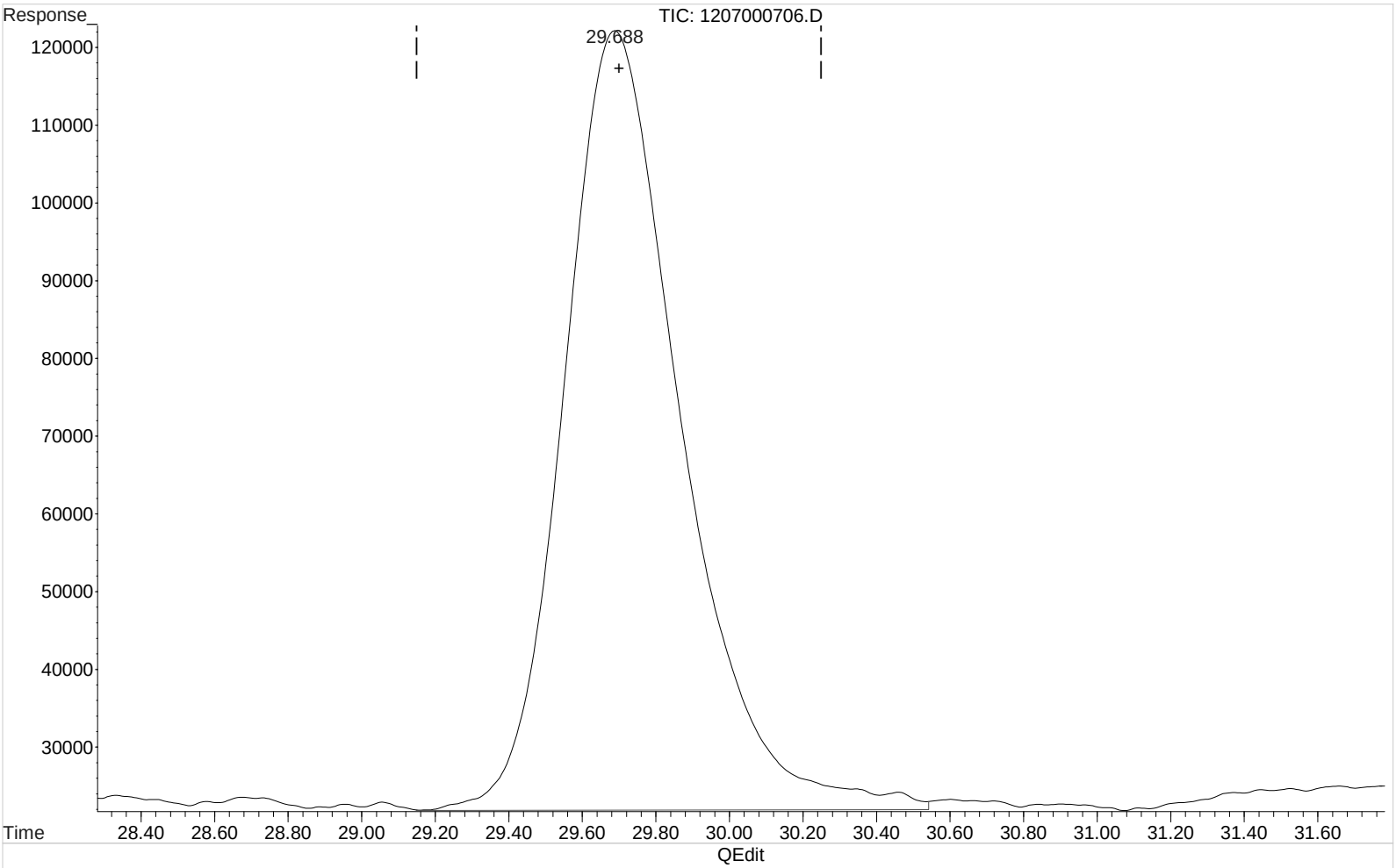
(+) = Expected Retention Time

(b) (6)
1st [redacted] 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(18) 1-Chloro-3-Nitrobenzene (S)

29.688min 98.517 ug/L m

response 2222660

Manual Integration:

After

BLC

12/08/16

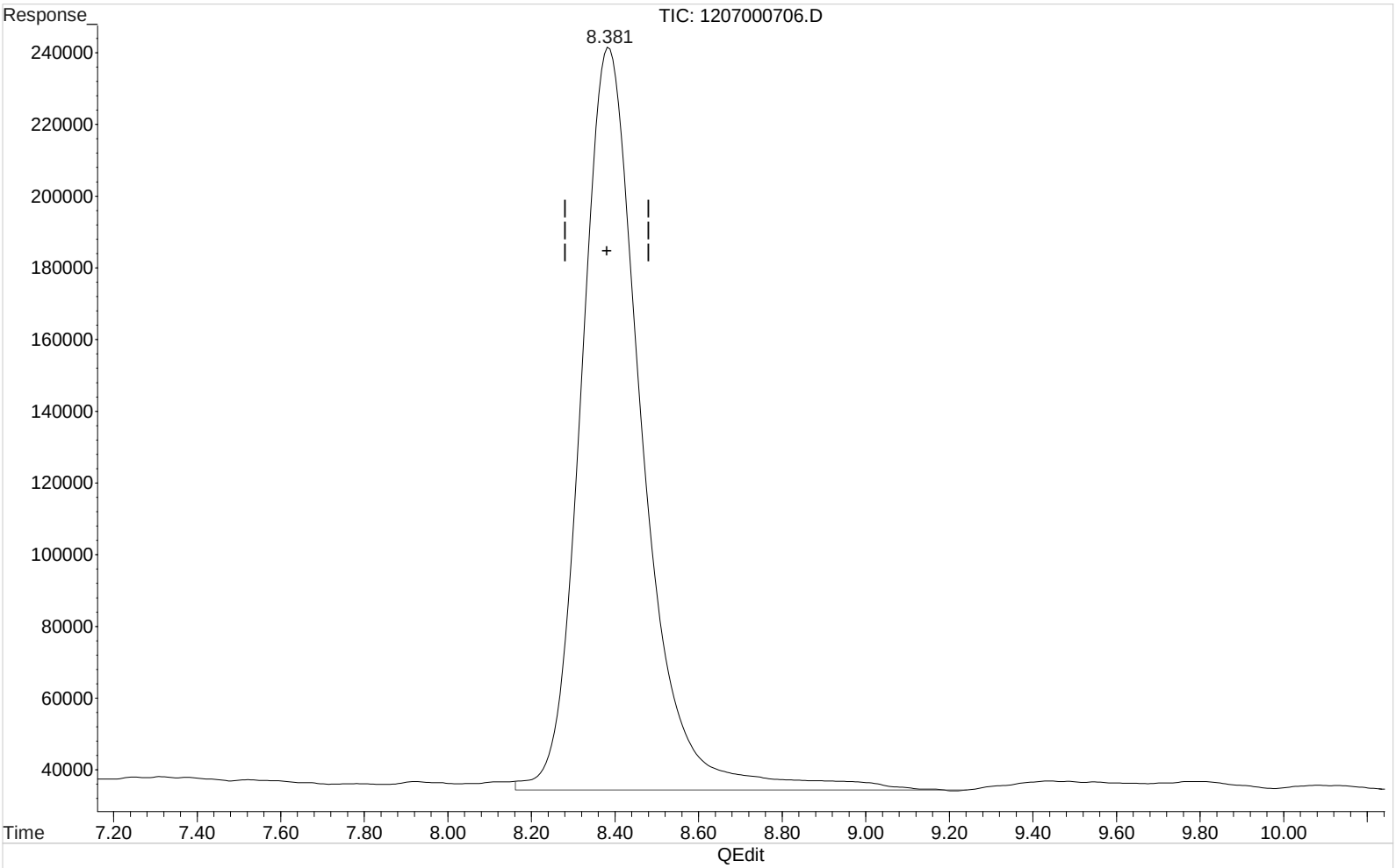
(+) = Expected Retention Time

(b) (6)
1st 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(4) RDX (T)

8.381min 104.100 ug/L

response 2112981

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b)(6)

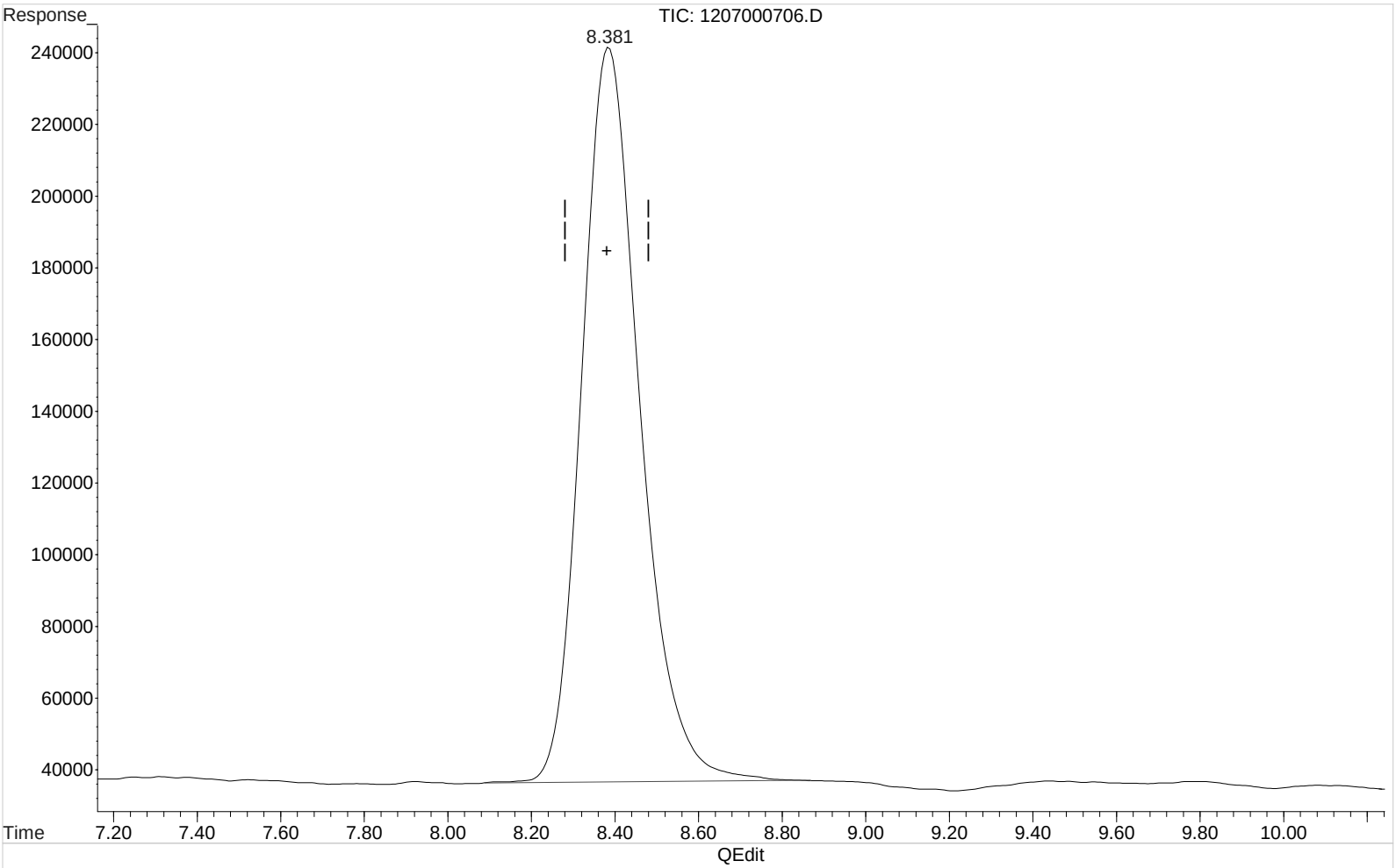
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(4) RDX (T)

8.381min 97.807 ug/L m

response 1985238

Manual Integration:

After

BLC

12/08/16

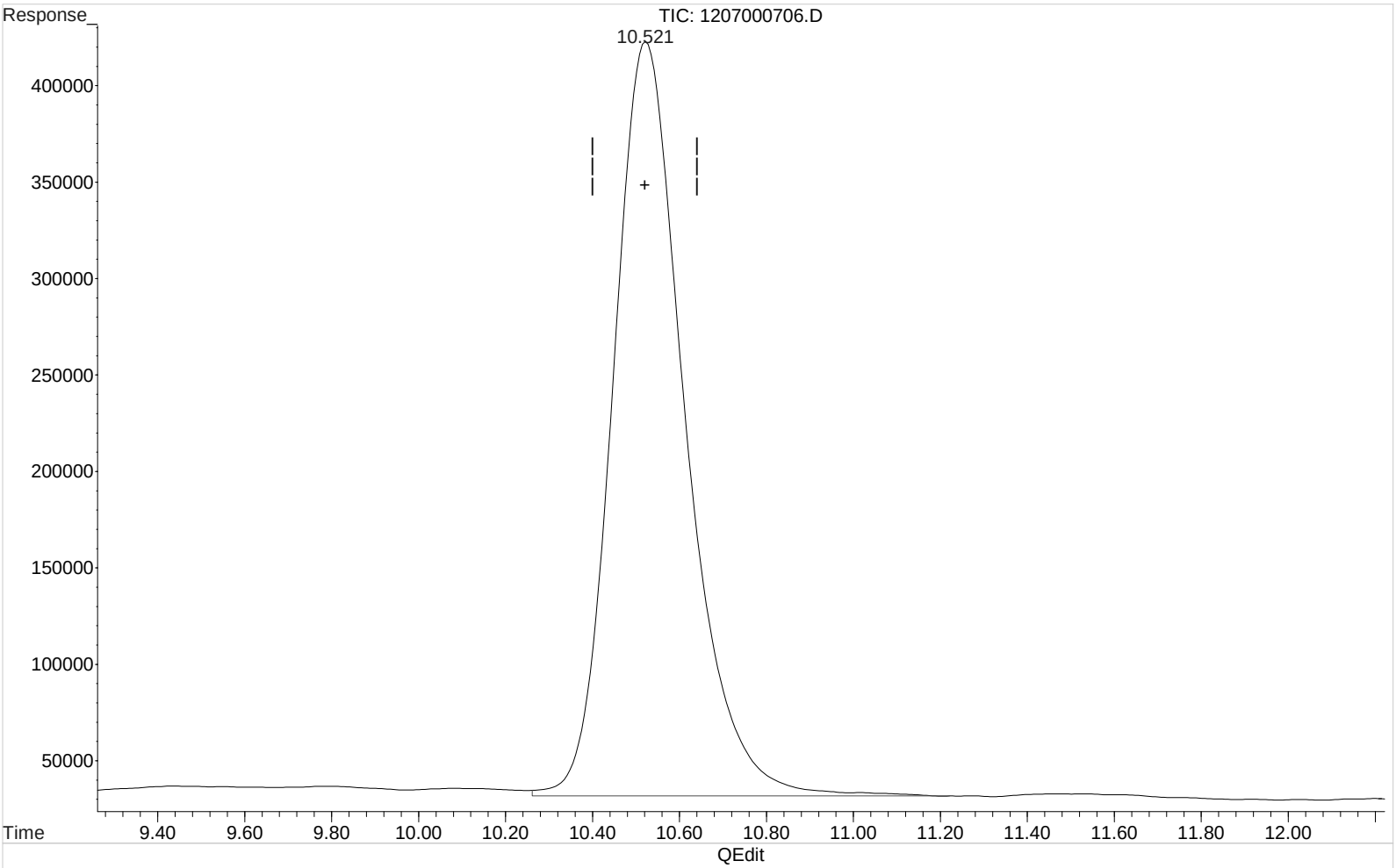
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(5) 1,3,5-TNB (T)

10.521min 99.668 ug/L

response 4529404

Manual Integration:

Before

12/08/16

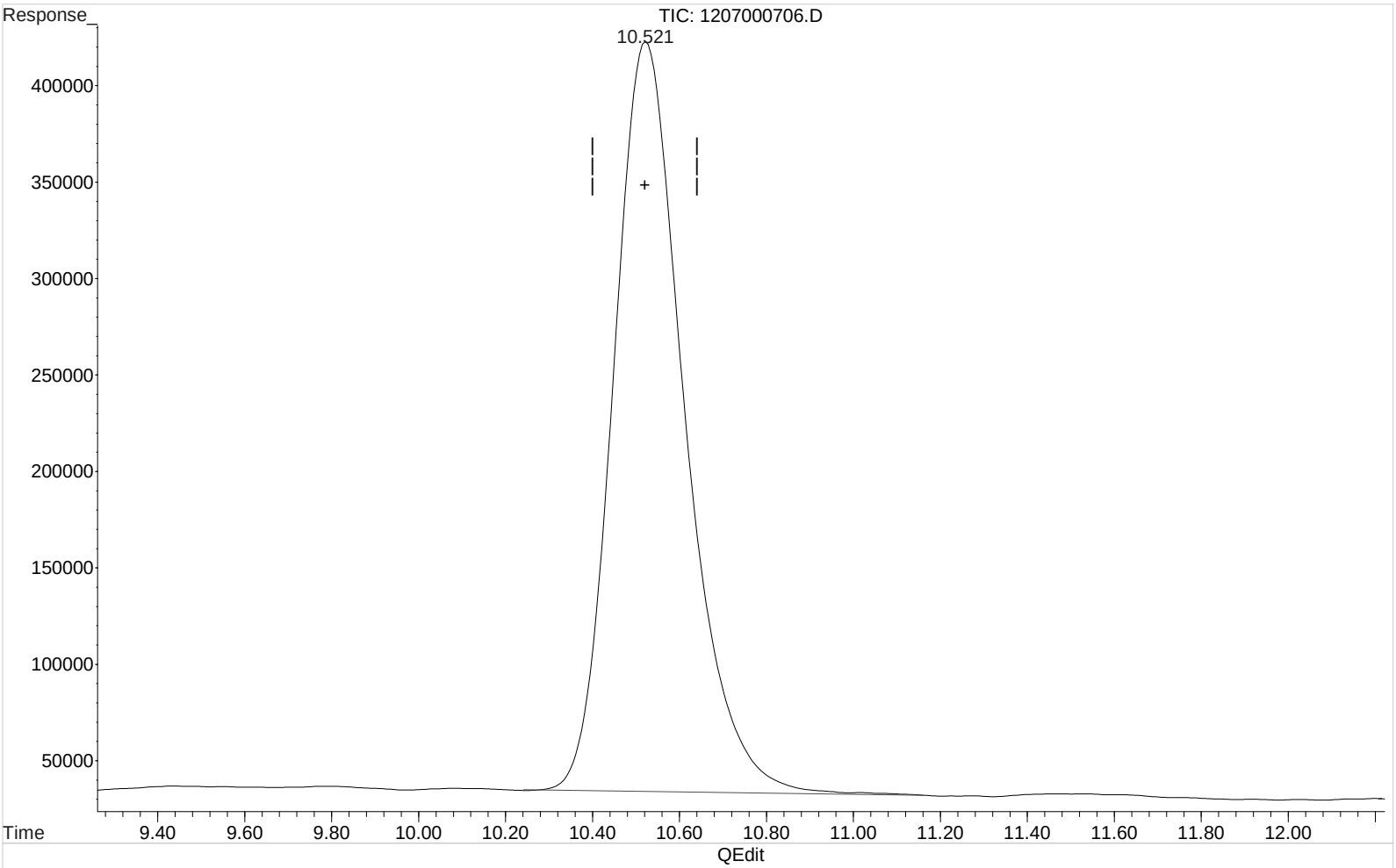
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(5) 1,3,5-TNB (T)

10.521min 97.549 ug/L m

response 4433120

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

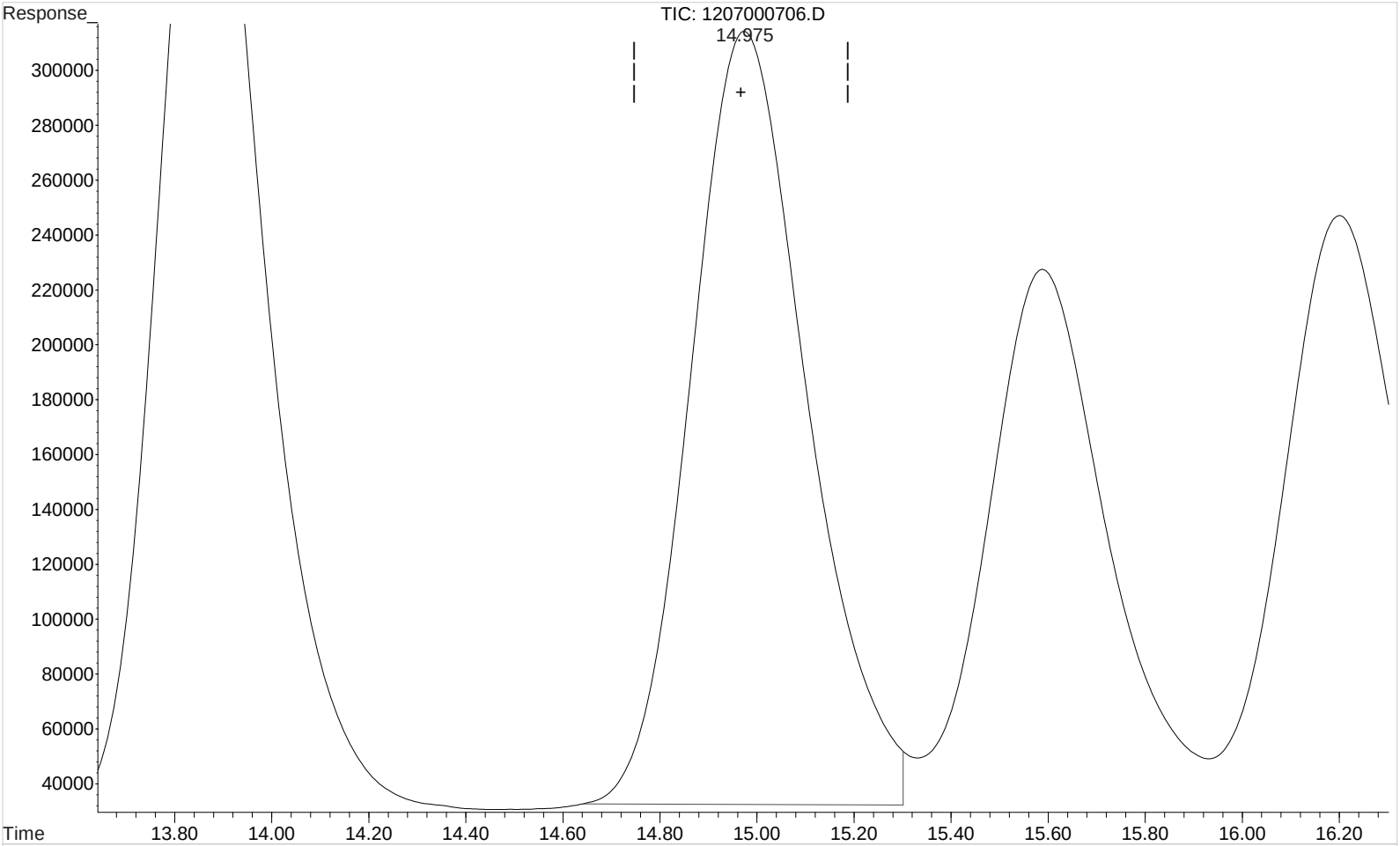
Quantitation Report (Qedit)

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.975min 97.288 ug/L

response 4690794

Manual Integration:

Before

12/08/16

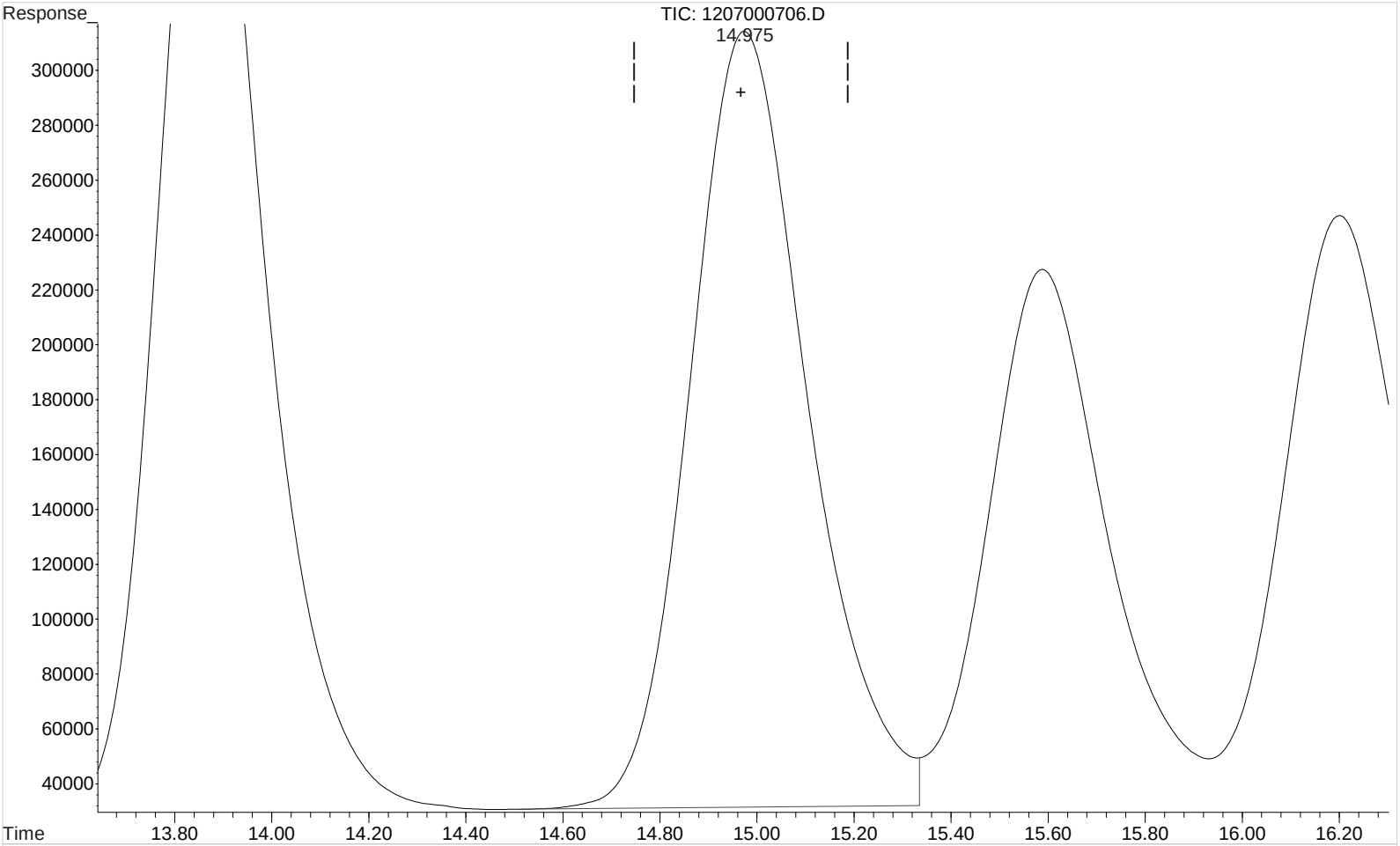
(+) = Expected Retention Time

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.975min 98.935 ug/L m

response 4770181

Manual Integration:

After

BLC

12/08/16

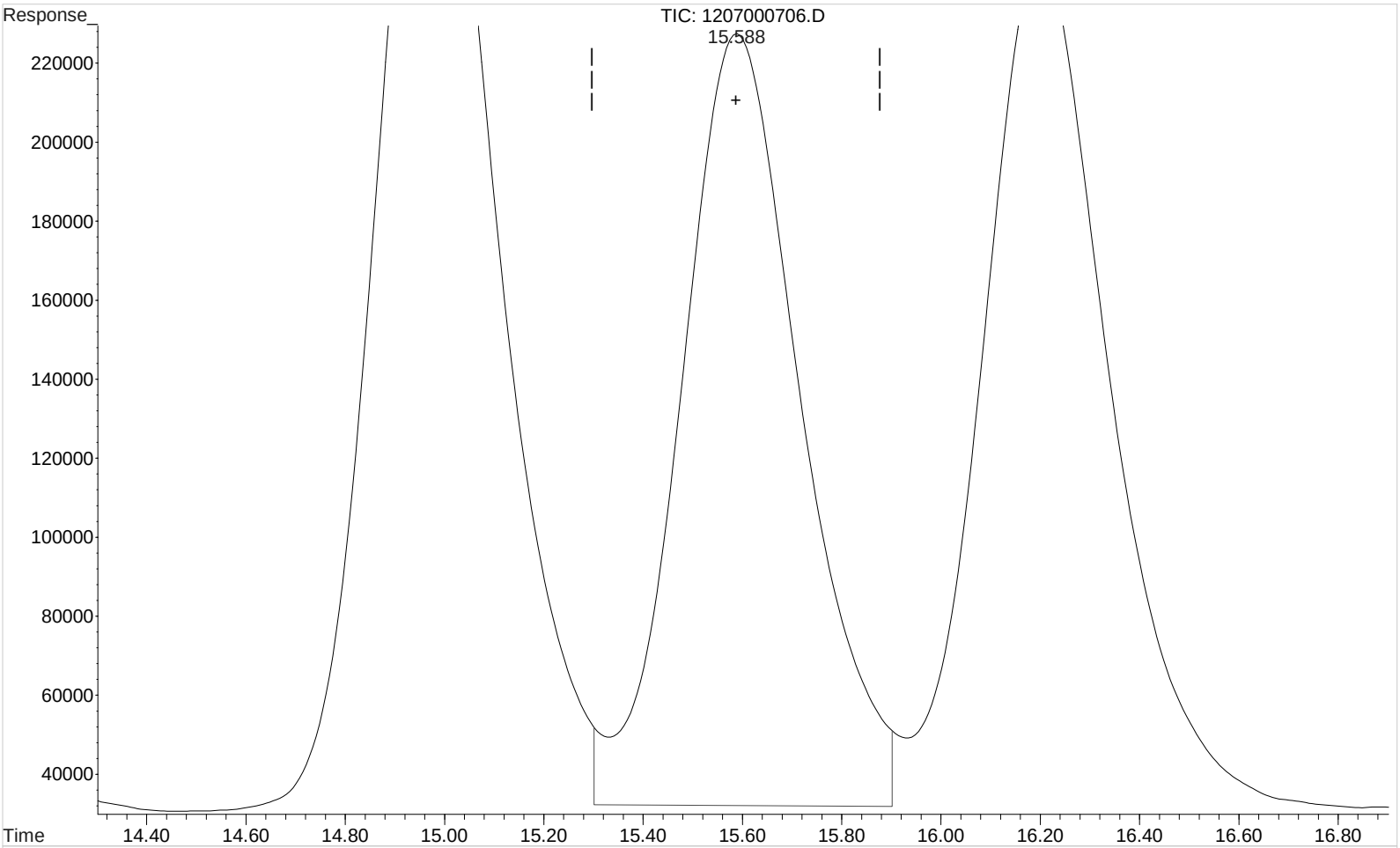
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(8) Tetryl (T)

15.588min 97.618 ug/L

response 3280904

Manual Integration:

Before

12/08/16

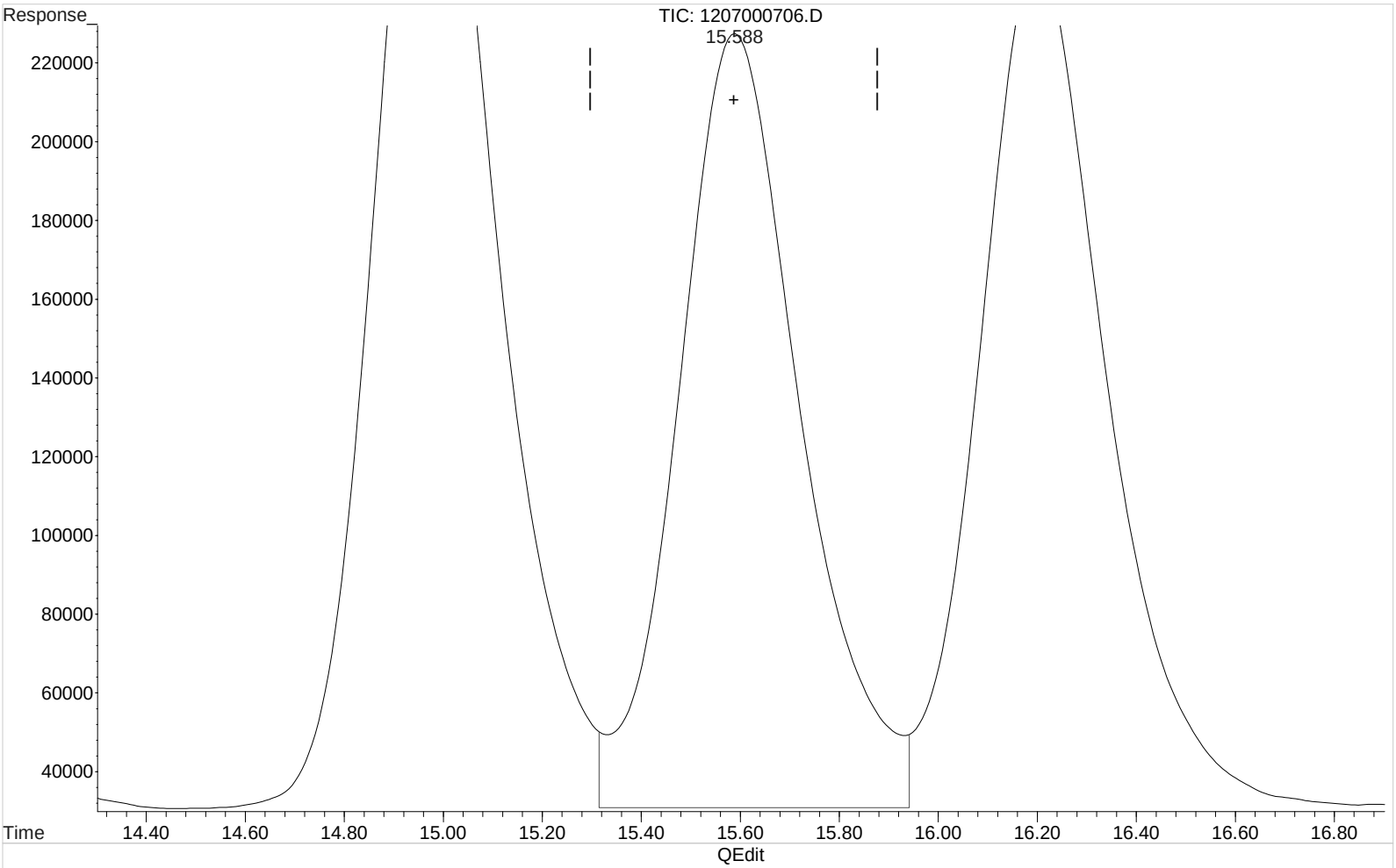
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(8) Tetryl (T)

15.588min 99.774 ug/L m

response 3353341

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

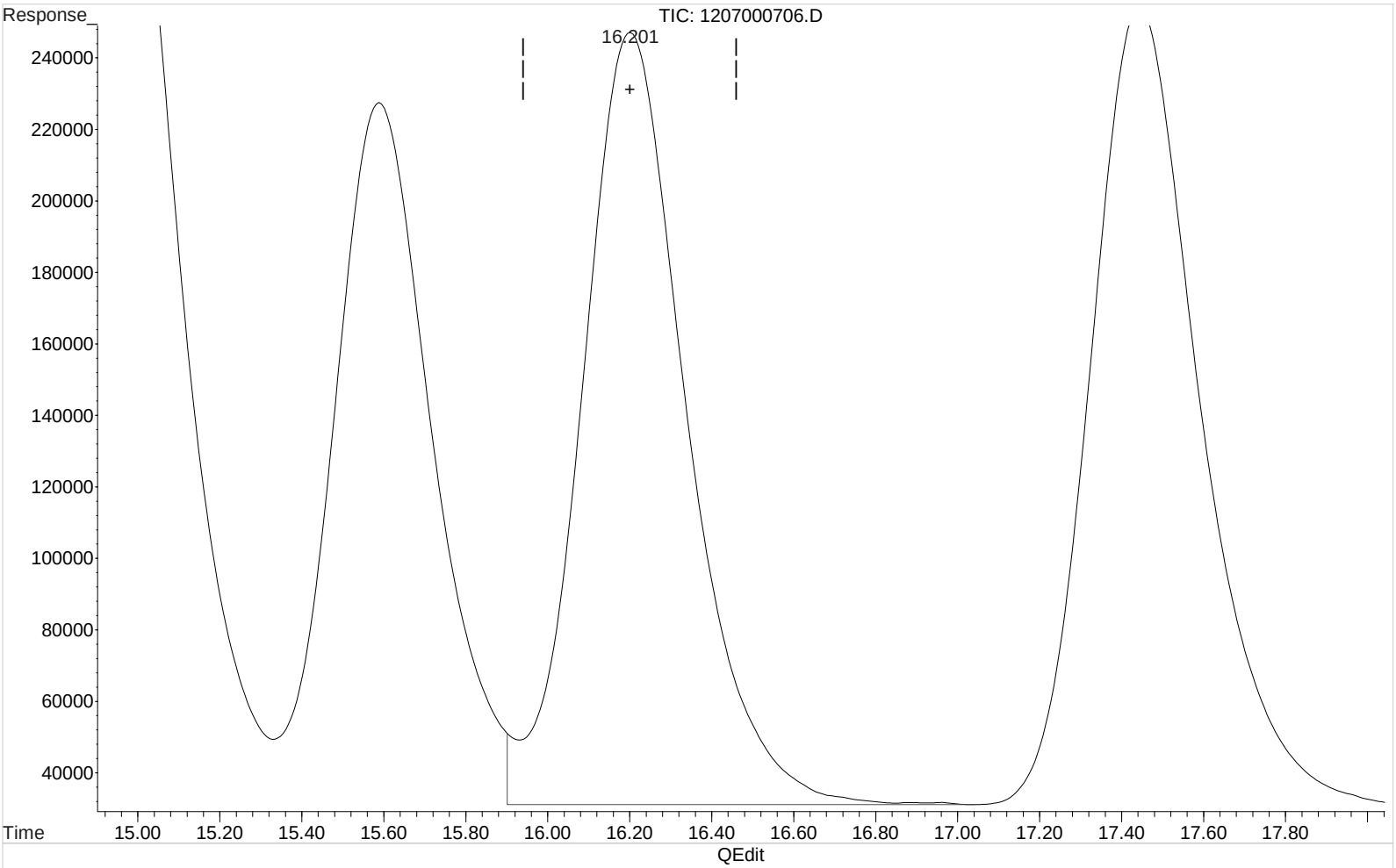
Quantitation Report (Qedit)

1st (b) (6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.201min 97.938 ug/L

response 3839592

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

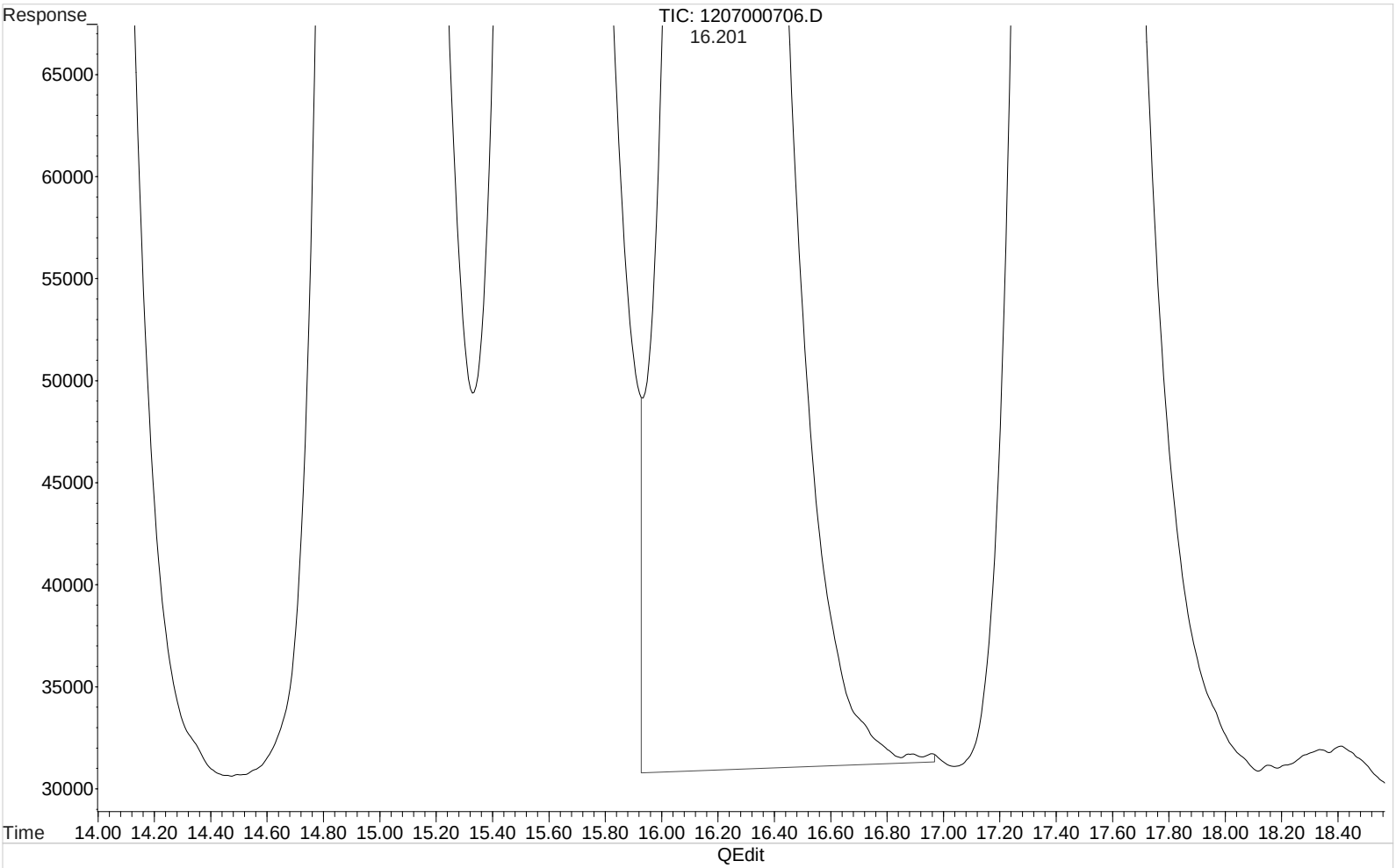
Quantitation Report (Qedit)

(b) (6)
1st 12/08/16
2n 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(9) Nitrobenzene (T)

16.201min 97.226 ug/L m

response 3811670

Manual Integration:

Before

12/08/16

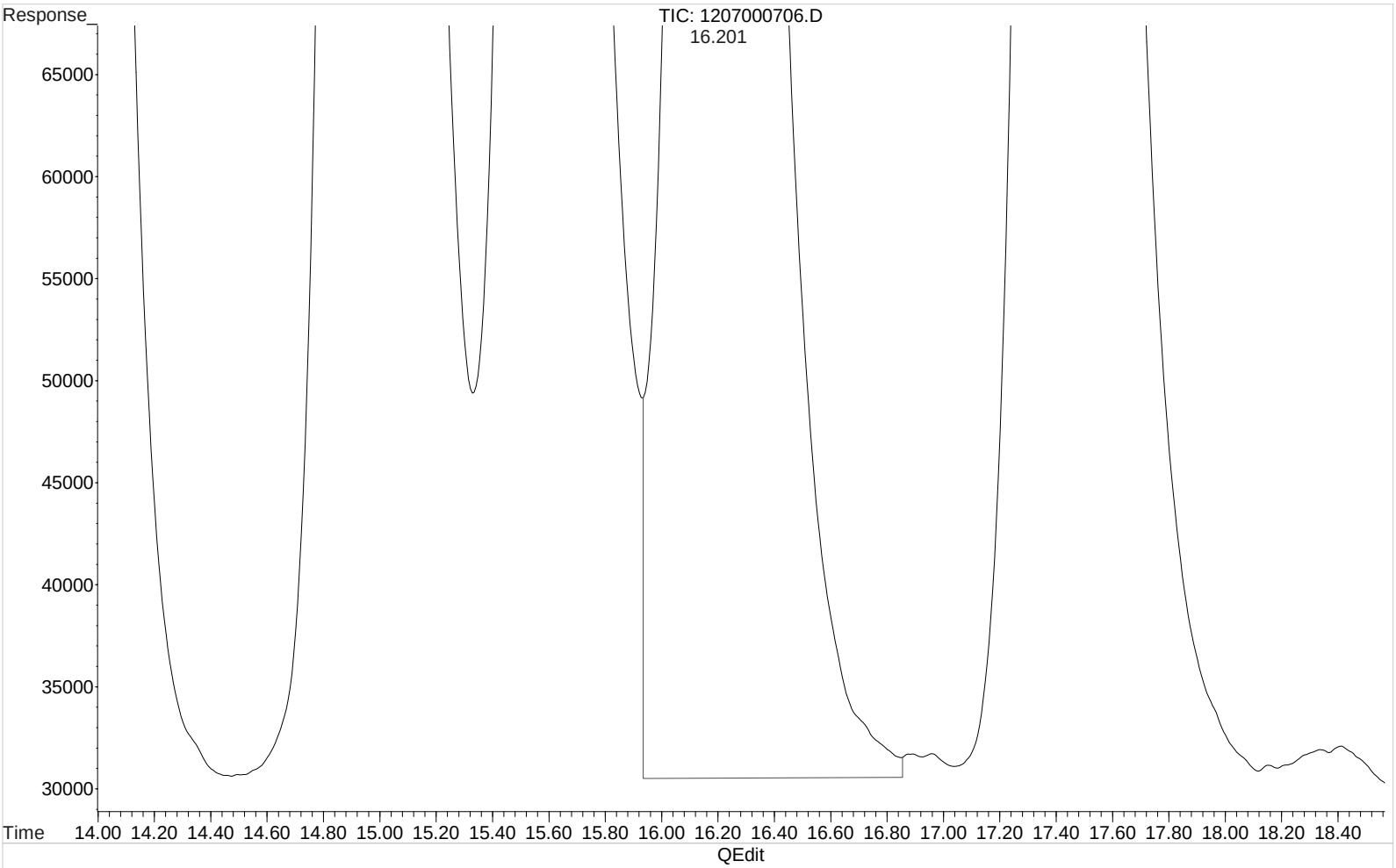
(+) = Expected Retention Time

(b) (6)
1st 12/08/16
2n 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.201min 97.660 ug/L m

response 3828698

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

1st (b) (6) 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:13:39 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
18)	S	1-Chloro-3-Nitrobenzene	29.700	4361045	194.259	ug/L	m
		Target Compounds					
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	4.786	2435762	205.004	ug/L	
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	8.386	3921355	194.616	ug/L	
5)	T	1,3,5-TNB	10.520	8886477	197.154	ug/L	
6)	T	1,3-DNB	13.866	12031824	196.315	ug/L	
7)	T	3,5-Dinitroaniline	14.980	9487220	197.468	ug/L	m
8)	T	Tetryl	15.593	6714428	199.929	ug/L	m
9)	T	Nitrobenzene	16.206	7632300	196.210	ug/L	m
10)	T	2,4,6-TNT	17.433	8434124	205.226	ug/L	
11)	T	4-Amino-2,6-DNT	19.193	5924218	203.601	ug/L	
12)	T	2-Amino-4,6-DNT	20.026	8501432	194.761	ug/L	
13)	T	2,6-DNT	21.753	4897380	201.372	ug/L	m
14)	T	2,4-DNT	22.206	11809220	201.727	ug/L	m
15)	T	2-NT	25.326	3610858	201.453	ug/L	m
16)	T	4-NT	26.253	3198950	197.617	ug/L	m
17)	T	3-NT	27.380	4020214	198.714	ug/L	

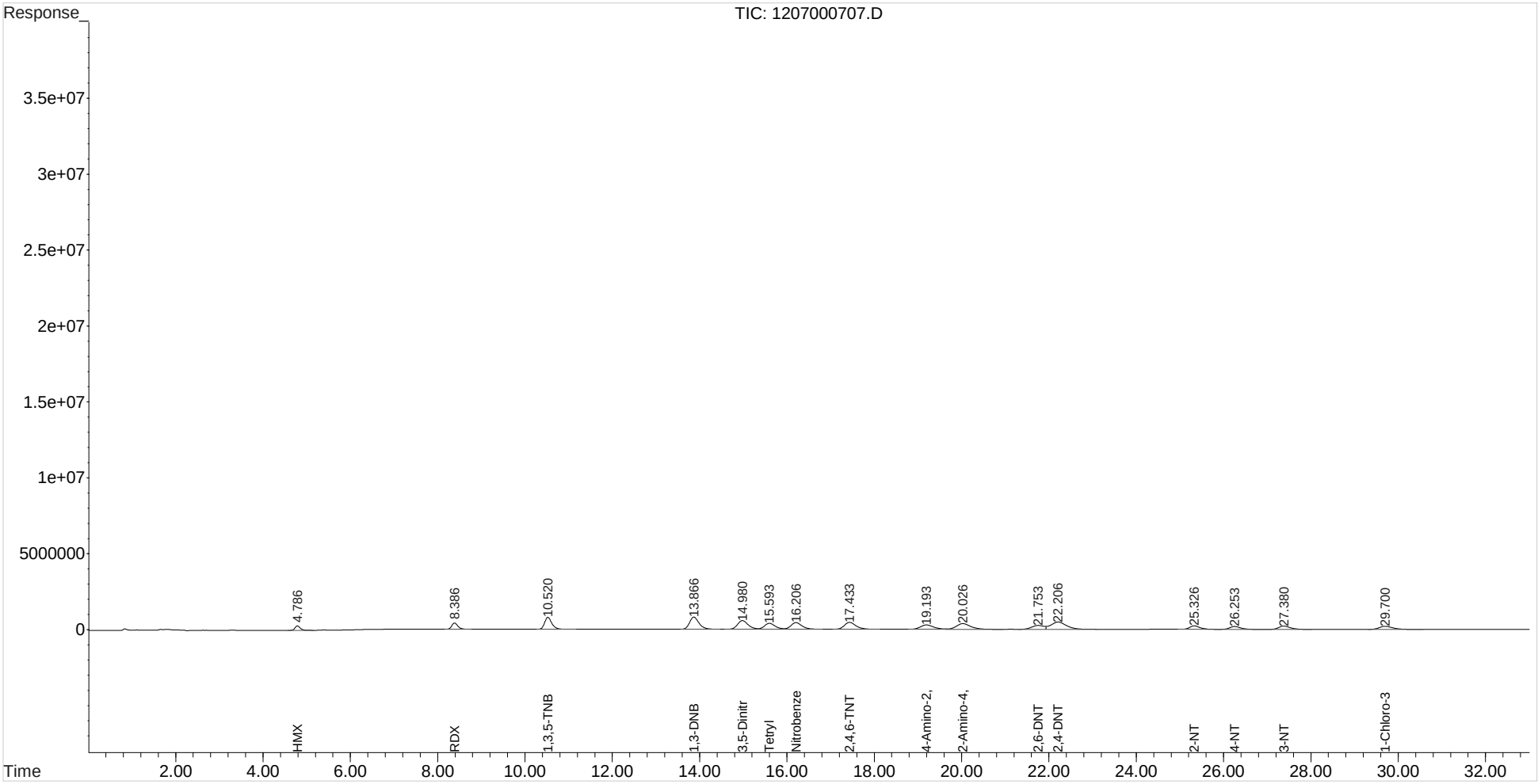
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:13:39 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



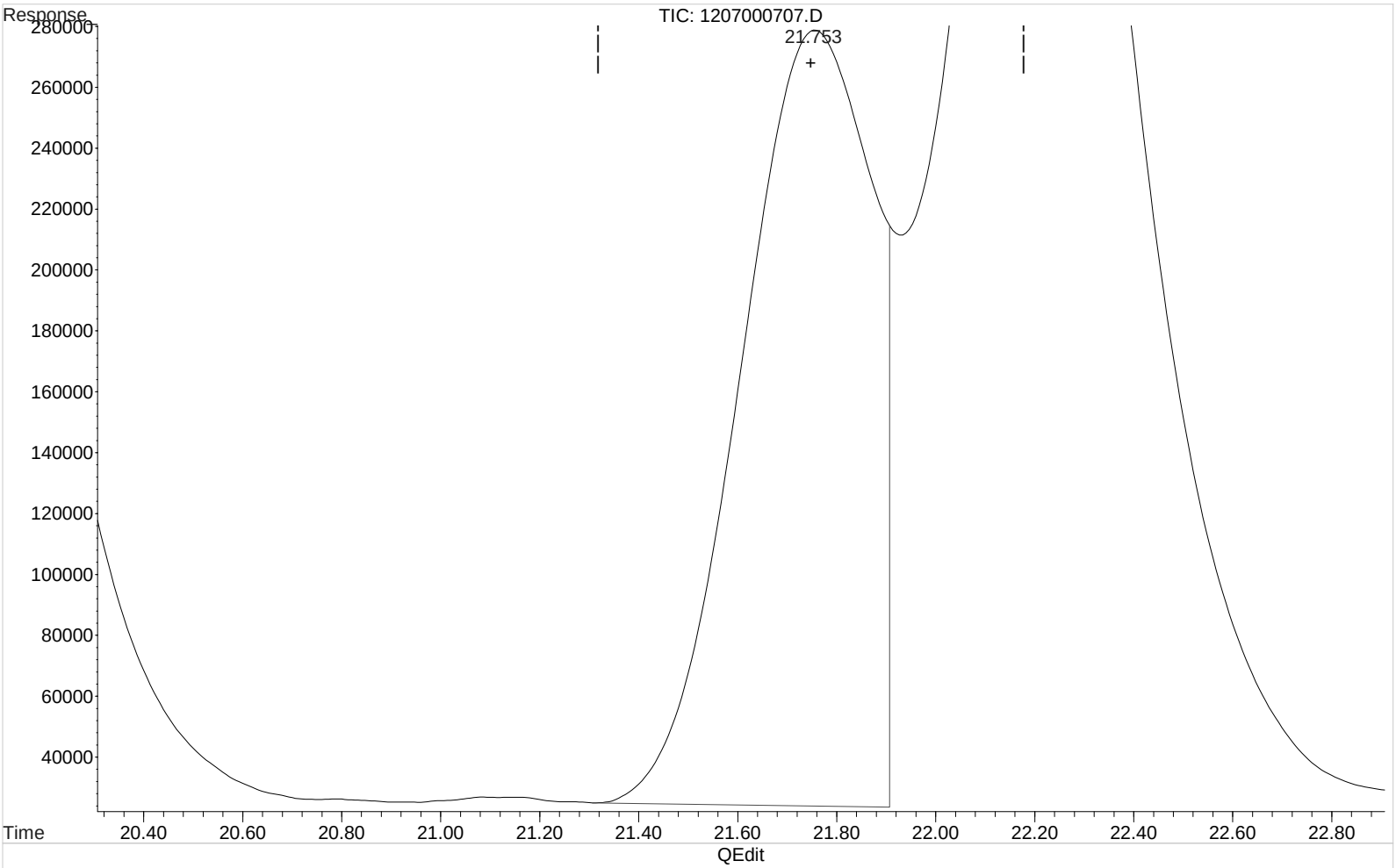
Quantitation Report (Qedit)

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.753min 193.577 ug/L

response 4707799

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

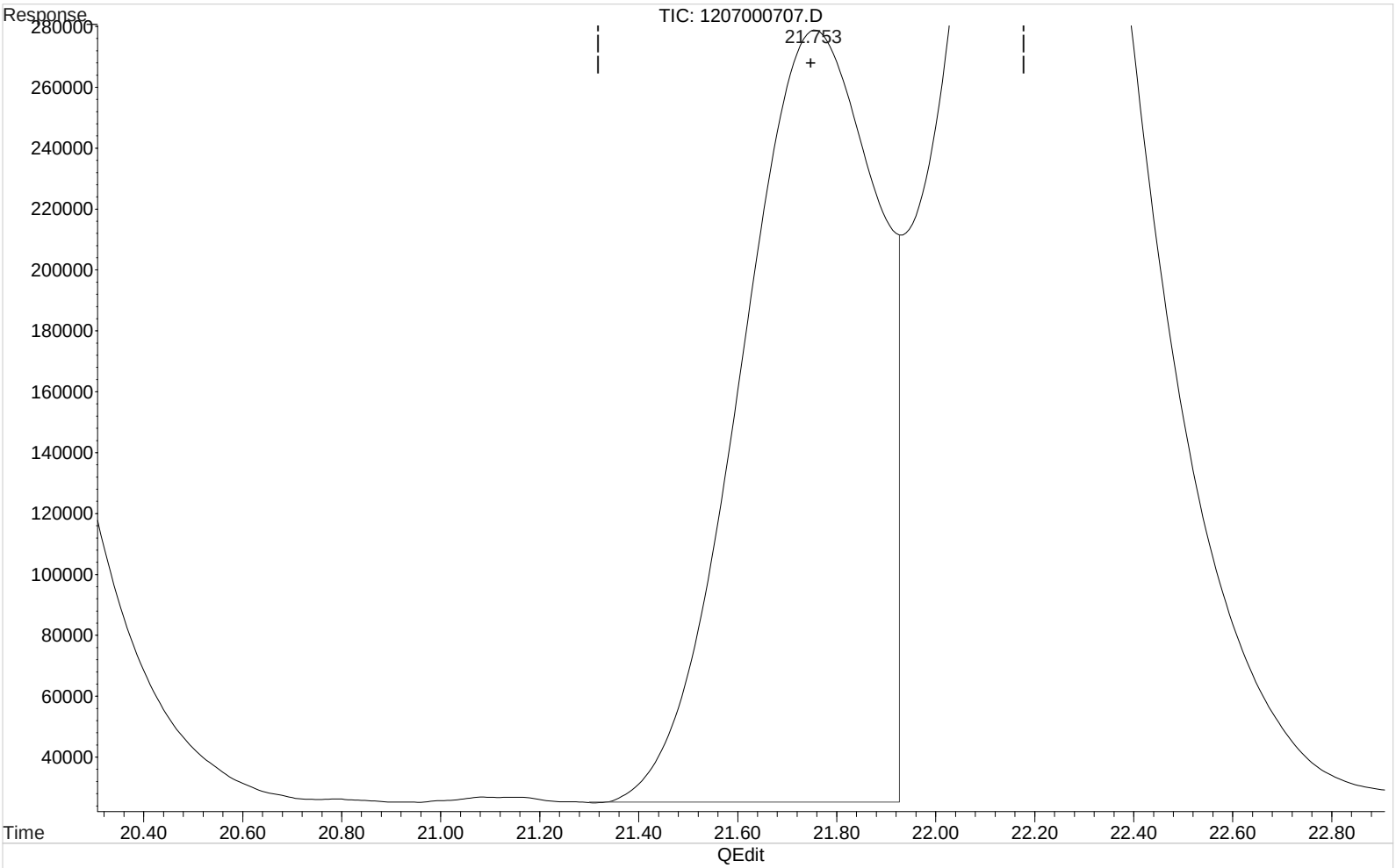
Quantitation Report (Qedit)

1st (b)(6) 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.753min 201.372 ug/L m

response 4897380

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

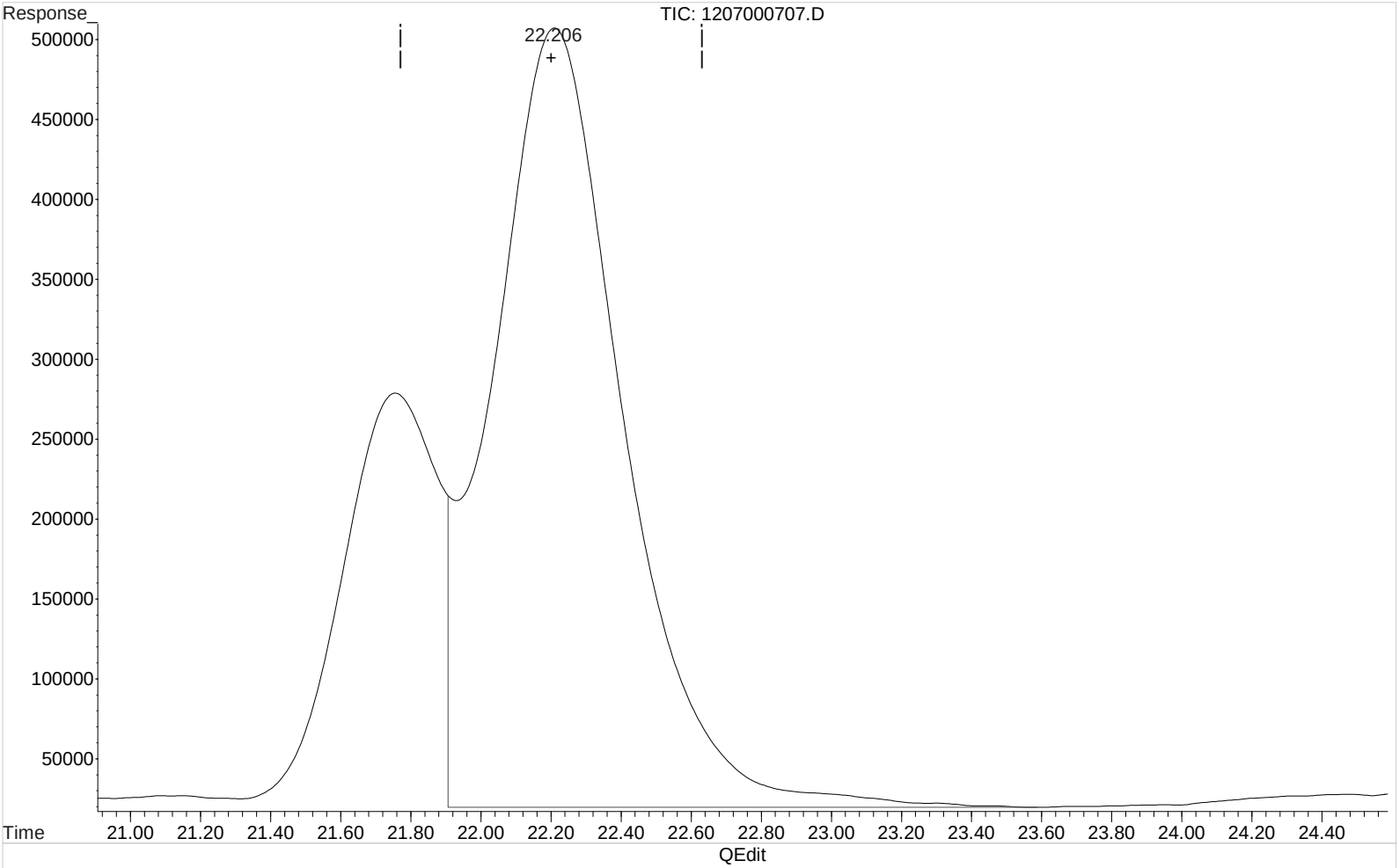
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.206min 215.947 ug/L

response 12641702

Manual Integration:

Before

12/08/16

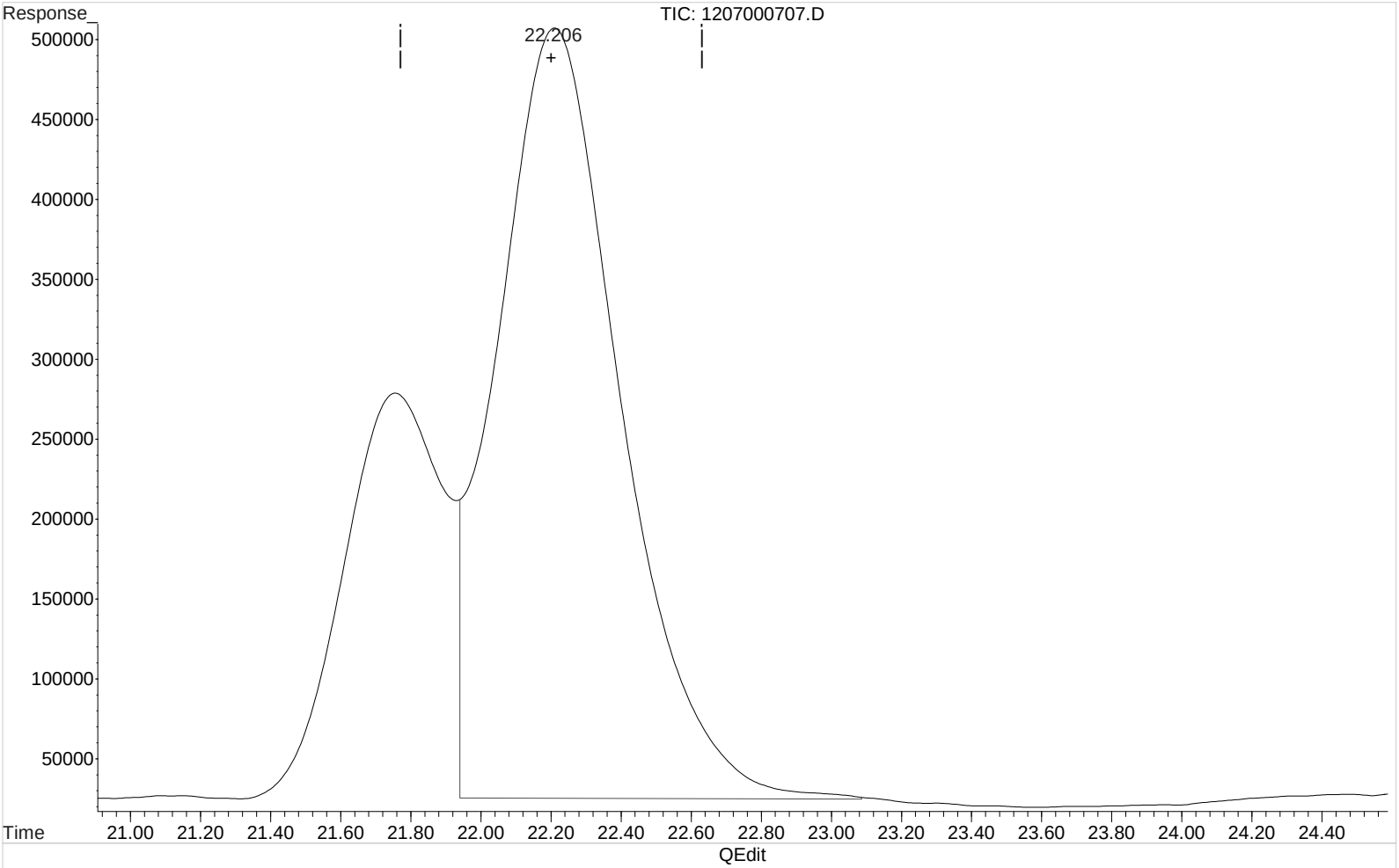
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(14) 2,4-DNT (T)

22.206min 201.727 ug/L m

response 11809220

Manual Integration:

After

BLC

12/08/16

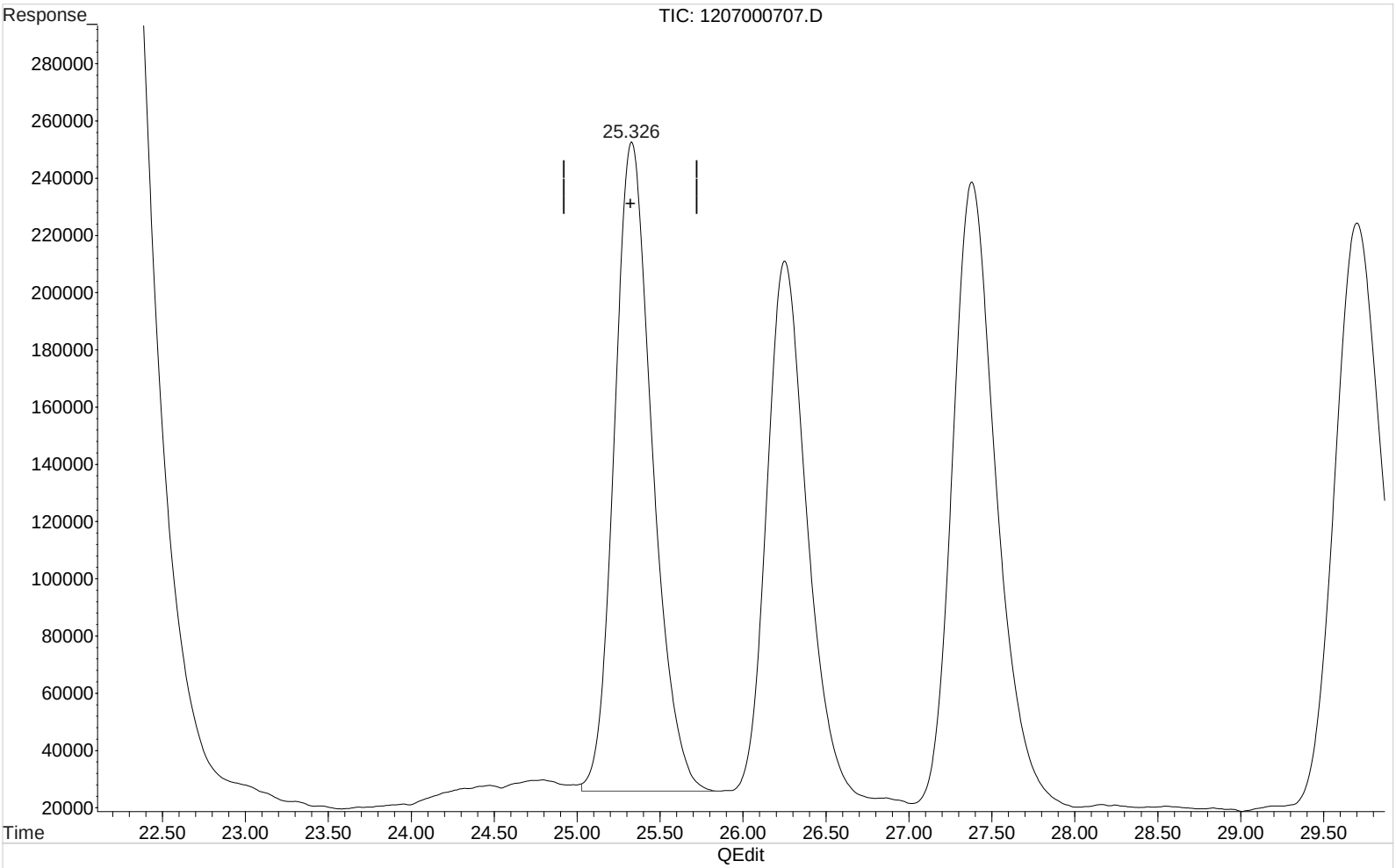
(+) = Expected Retention Time

(b) (6)
1st [redacted] /08/16
2nd [redacted] /09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.326min 202.270 ug/L

response 3625509

Manual Integration:

Before

12/08/16

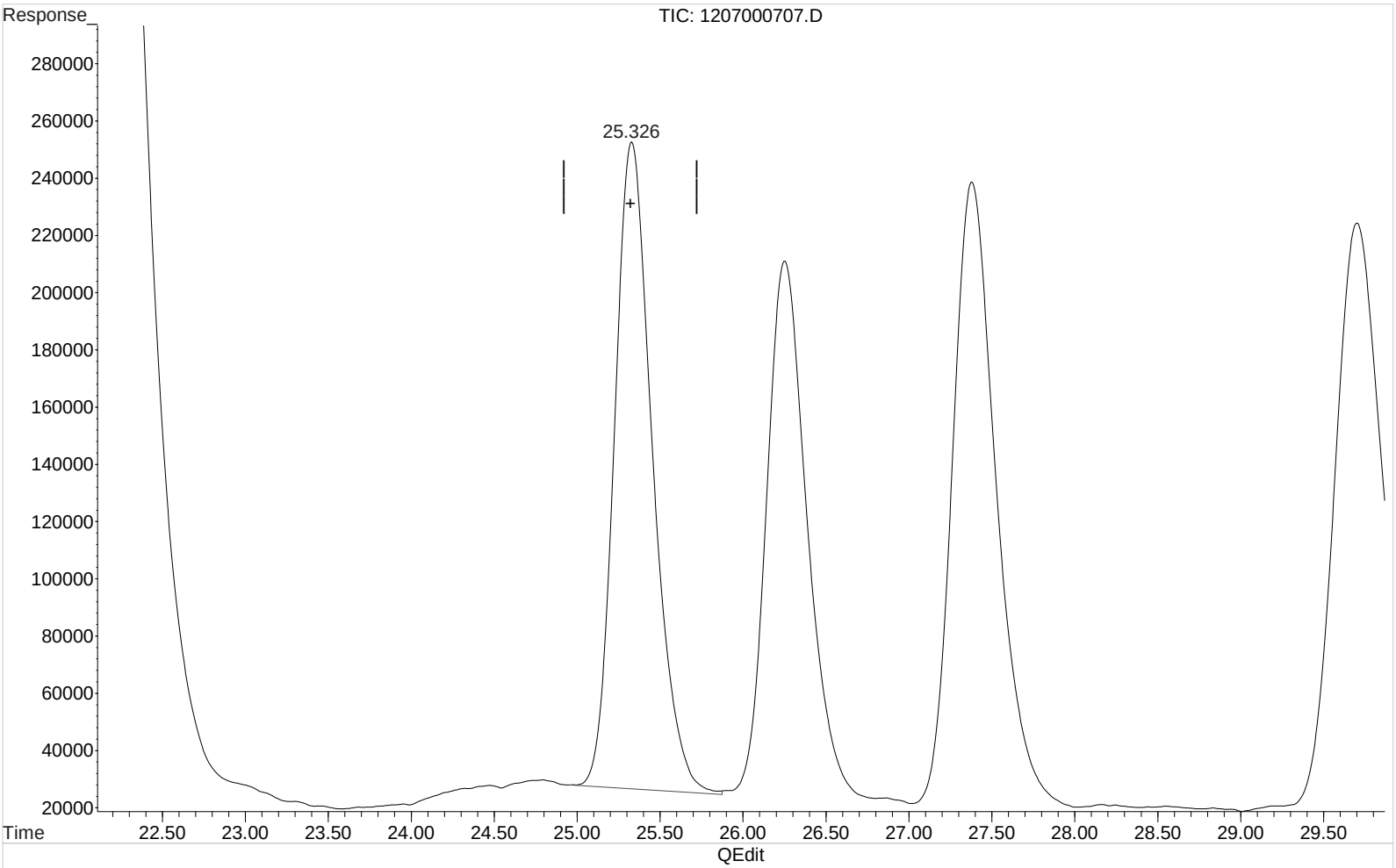
(+) = Expected Retention Time

(b) (6)
1st /08/16
2n /09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.326min 201.453 ug/L m

response 3610858

Manual Integration:

After

BLC

12/08/16

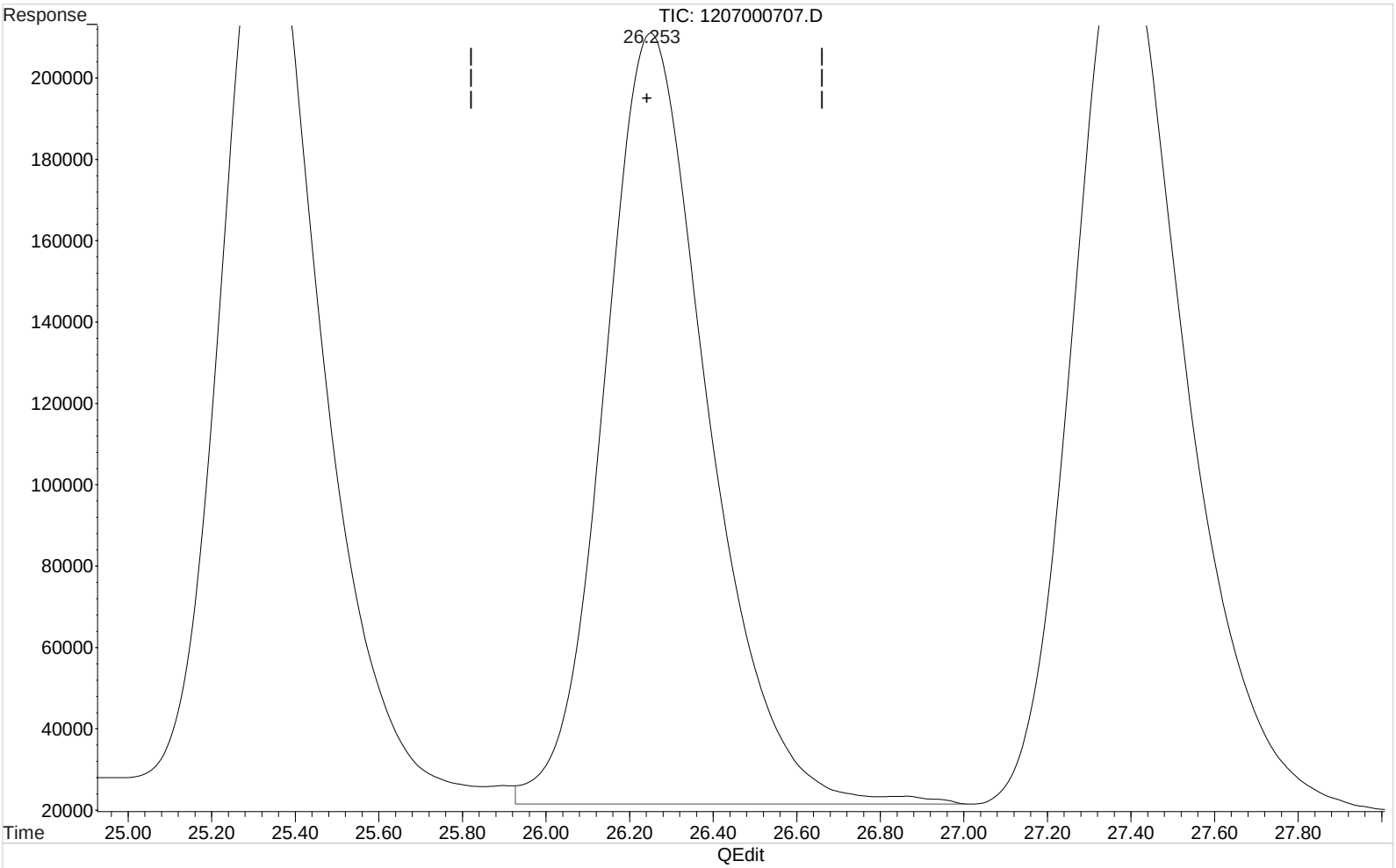
(+) = Expected Retention Time

(b) (6)
1st 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.253min 203.164 ug/L

response 3288744

Manual Integration:

Before

12/08/16

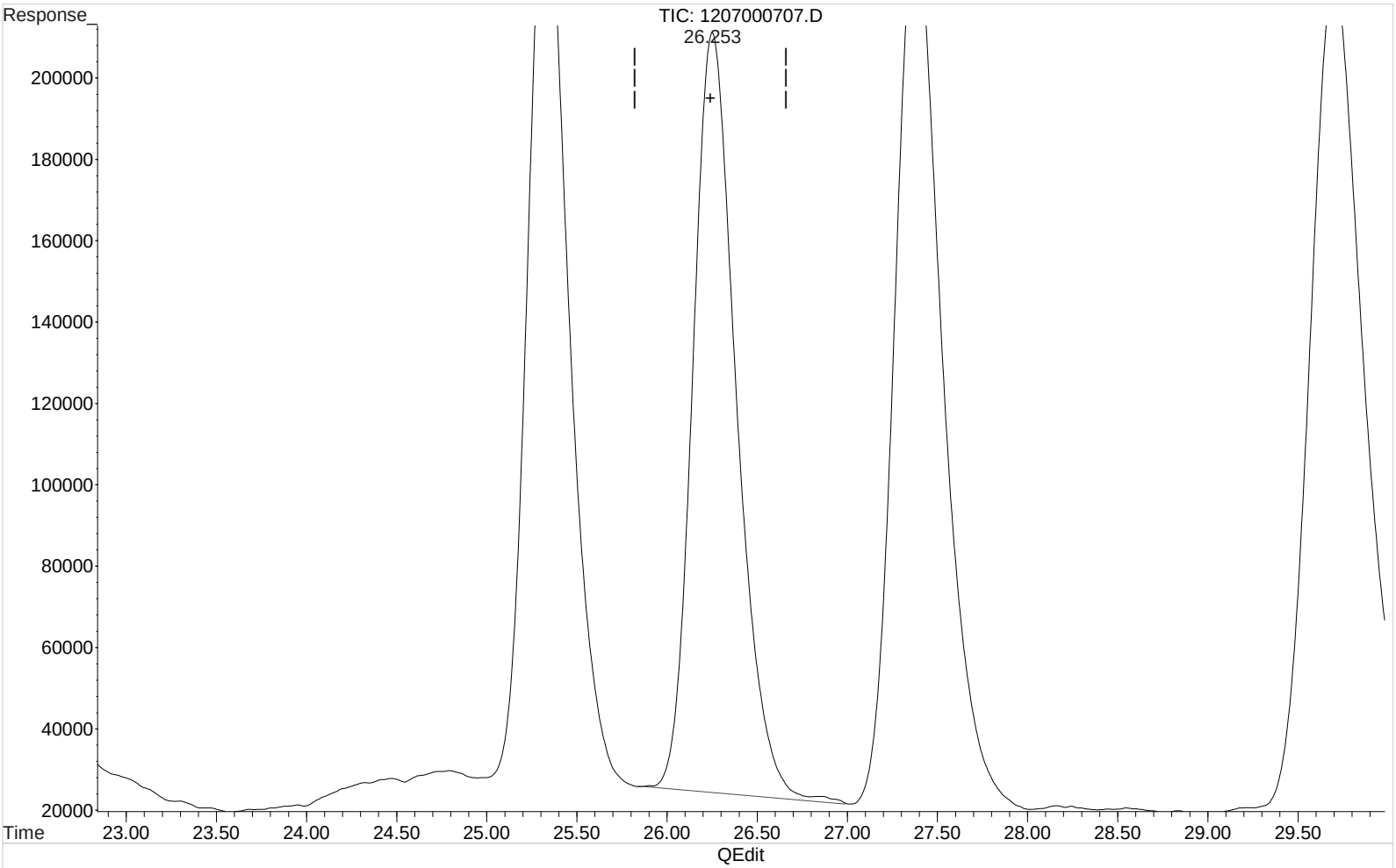
(+) = Expected Retention Time

1st (b)(6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.253min 195.125 ug/L m

response 3158608

Manual Integration:

Before

12/08/16

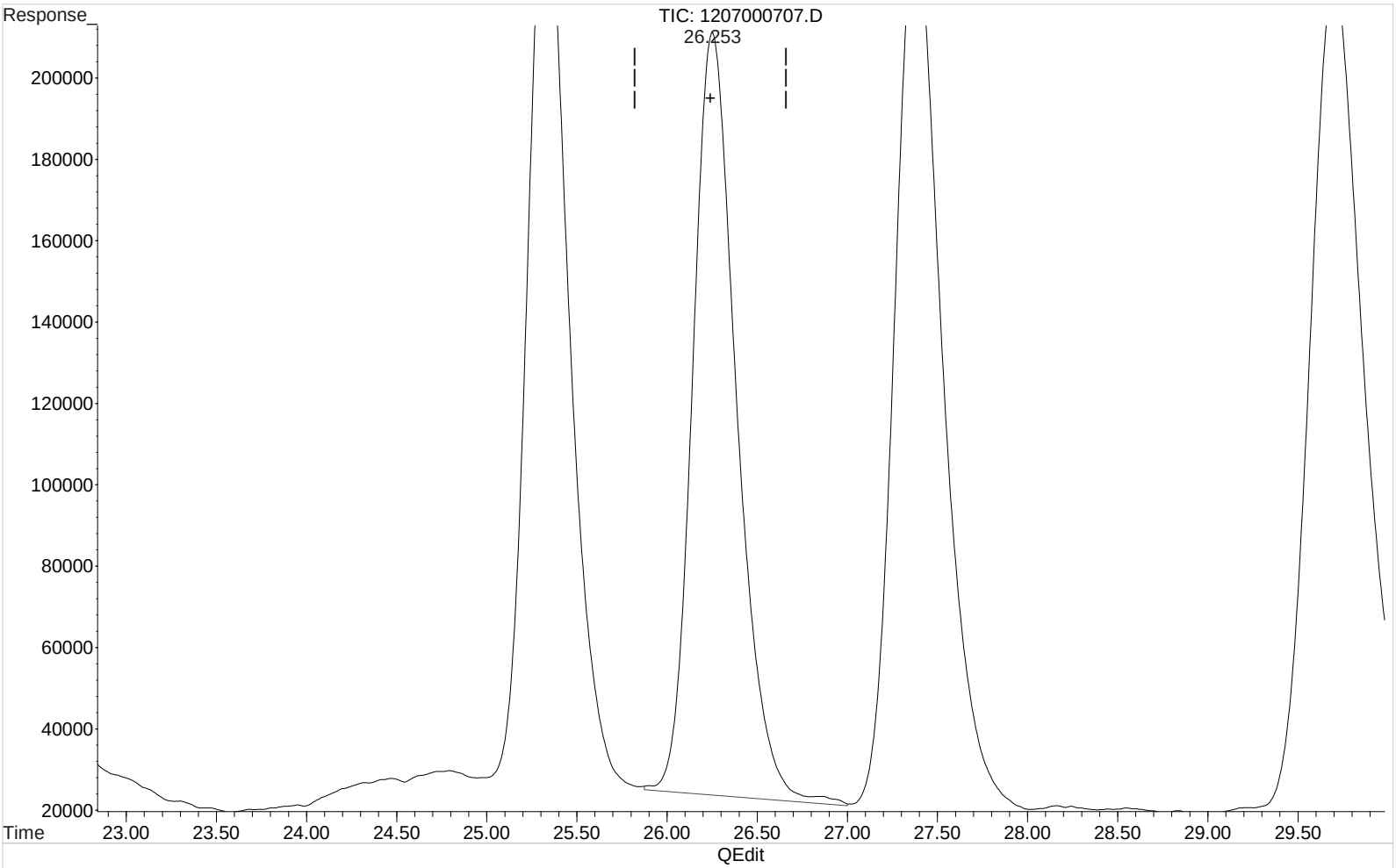
(+) = Expected Retention Time

(b) (6)
1st 12/08/16
2n 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.253min 197.617 ug/L m

response 3198950

Manual Integration:

After

BLC

12/08/16

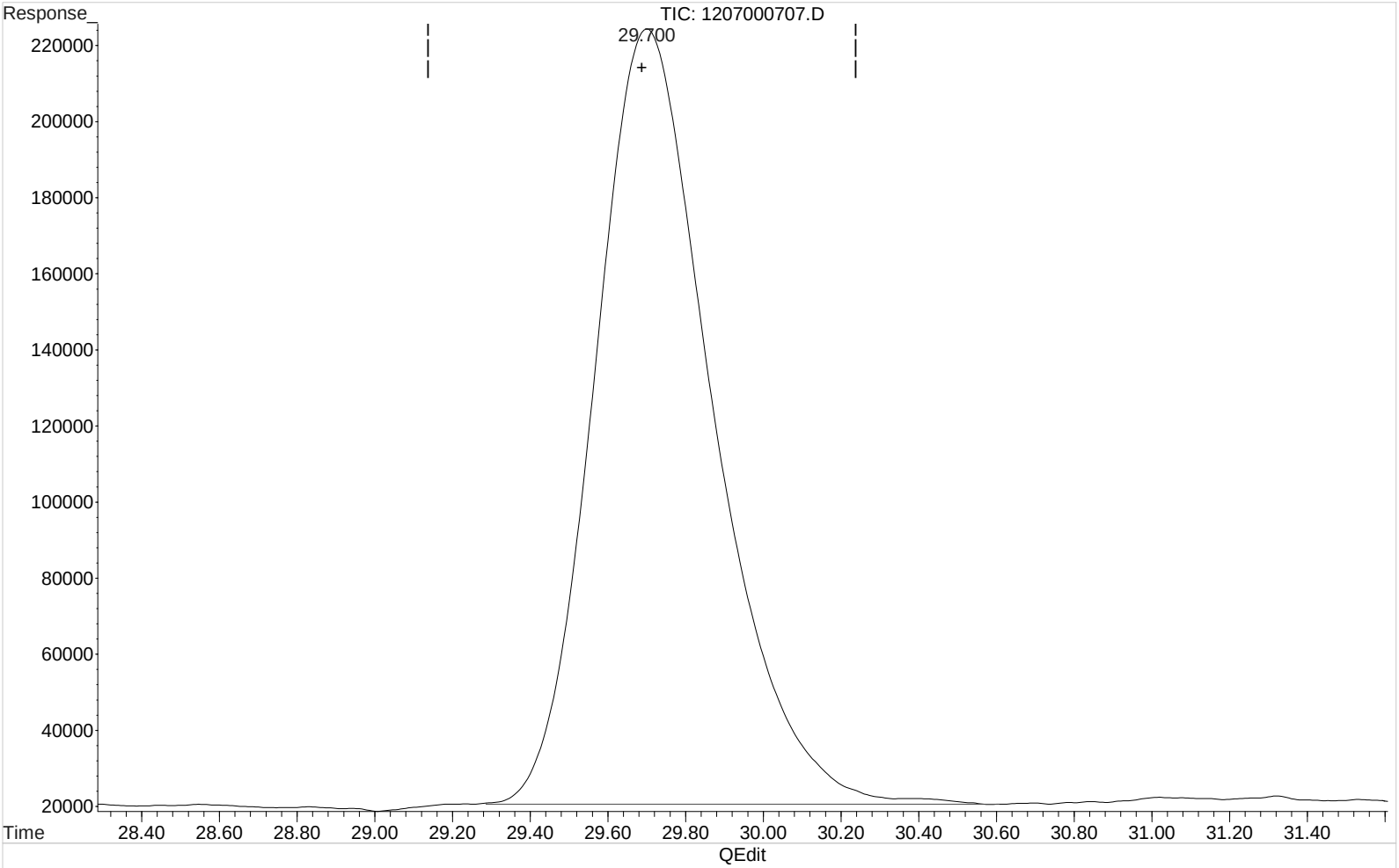
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(18) 1-Chloro-3-Nitrobenzene (S)

29.700min 192.103 ug/L

response 4312645

Manual Integration:

Before

12/08/16

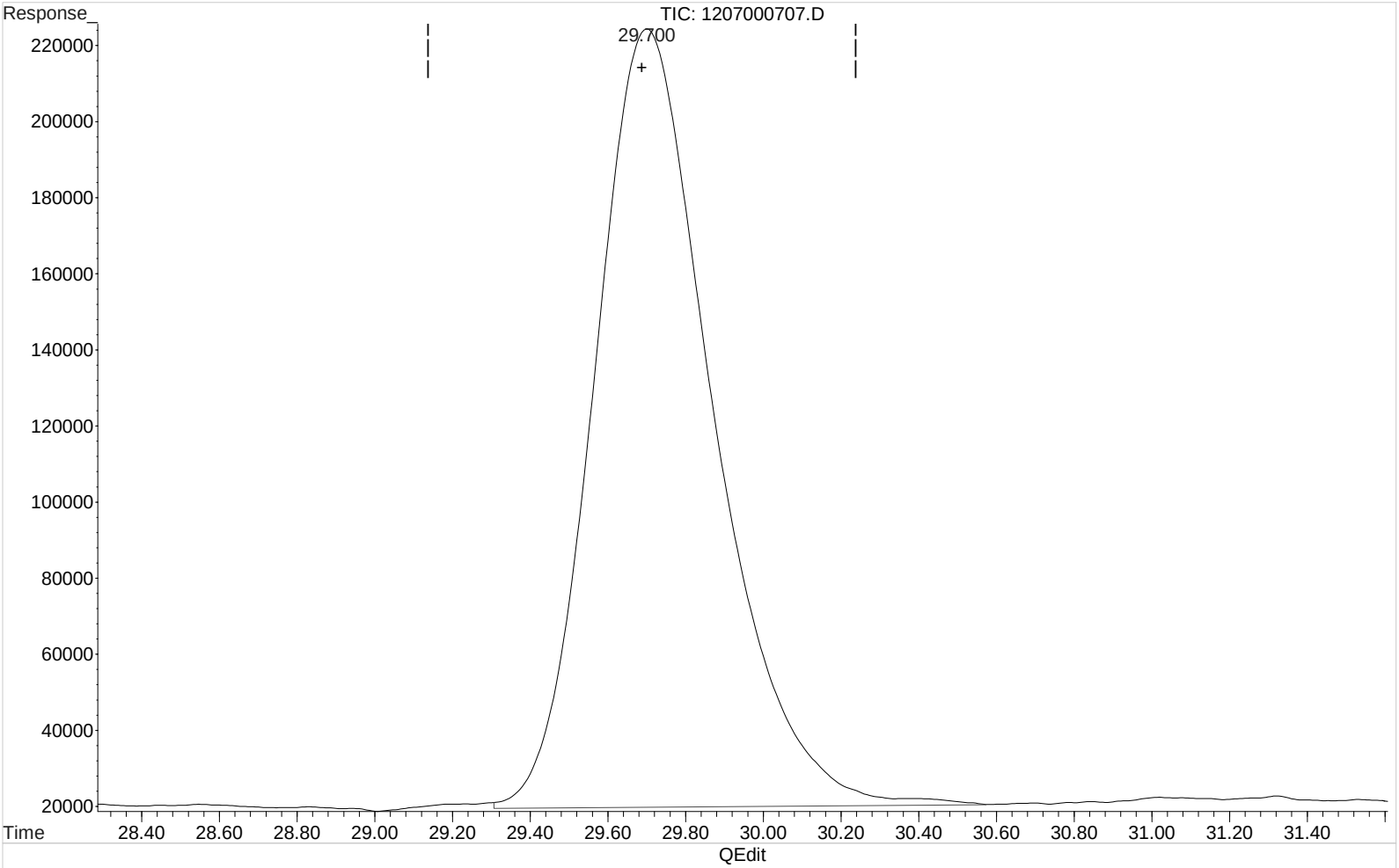
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(18) 1-Chloro-3-Nitrobenzene (S)

29.700min 194.259 ug/L m

response 4361045

Manual Integration:

After

BLC

12/08/16

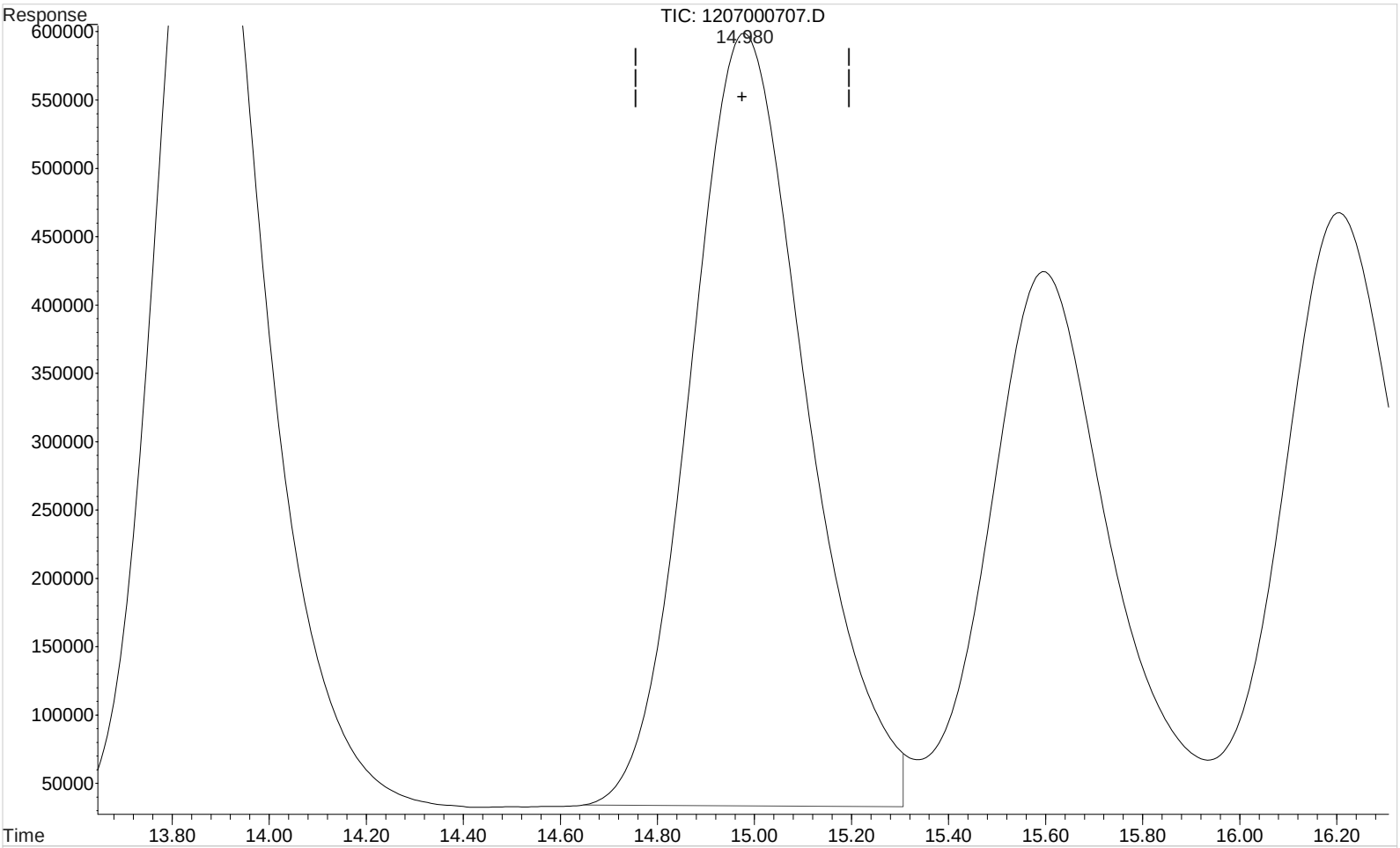
(+) = Expected Retention Time

1st (b) (6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.980min 195.548 ug/L

response 9394960

Manual Integration:

Before

12/08/16

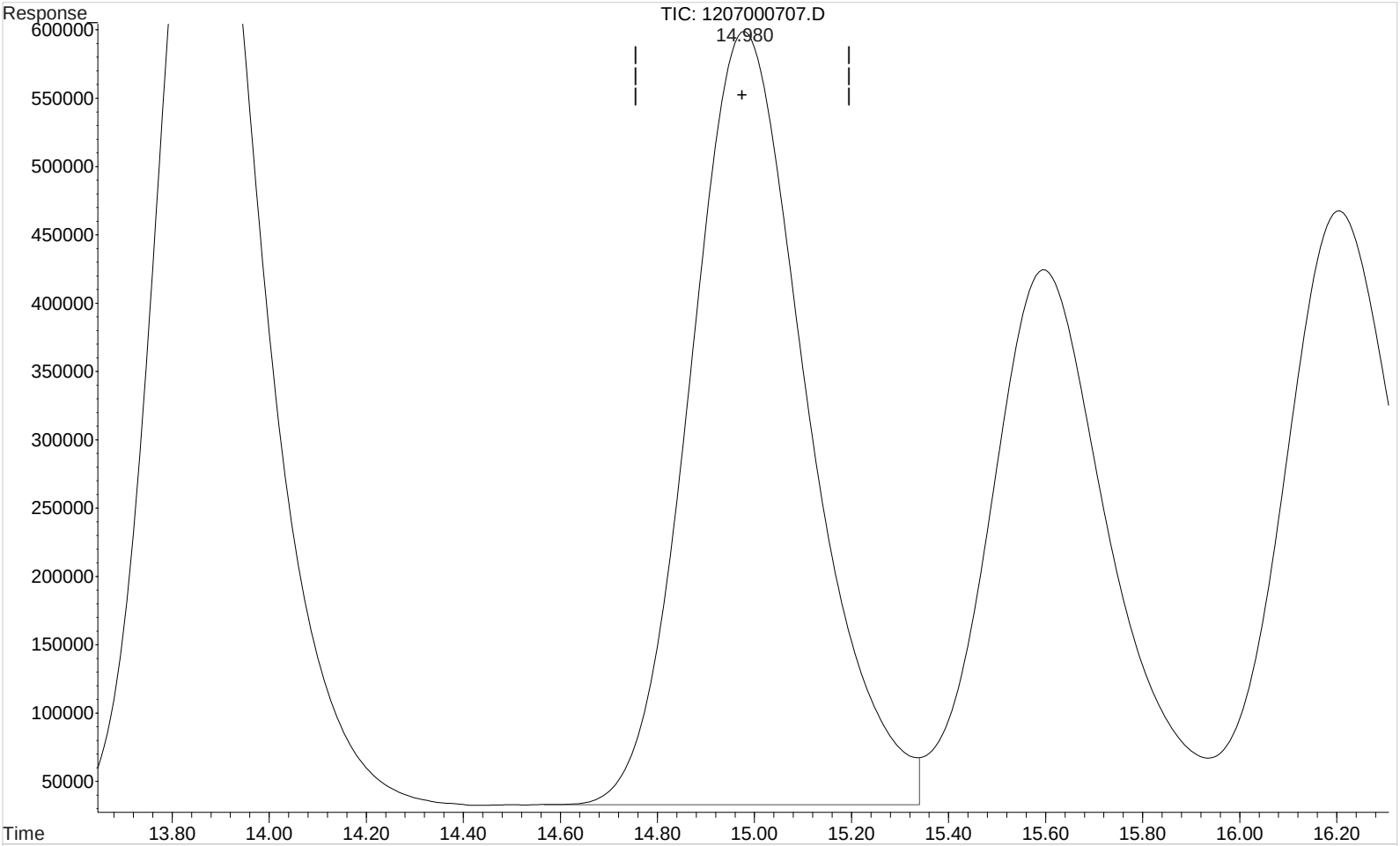
(+) = Expected Retention Time

1st (b) (6) /08/16
2nd /09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.980min 197.468 ug/L m

response 9487220

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b)(6)

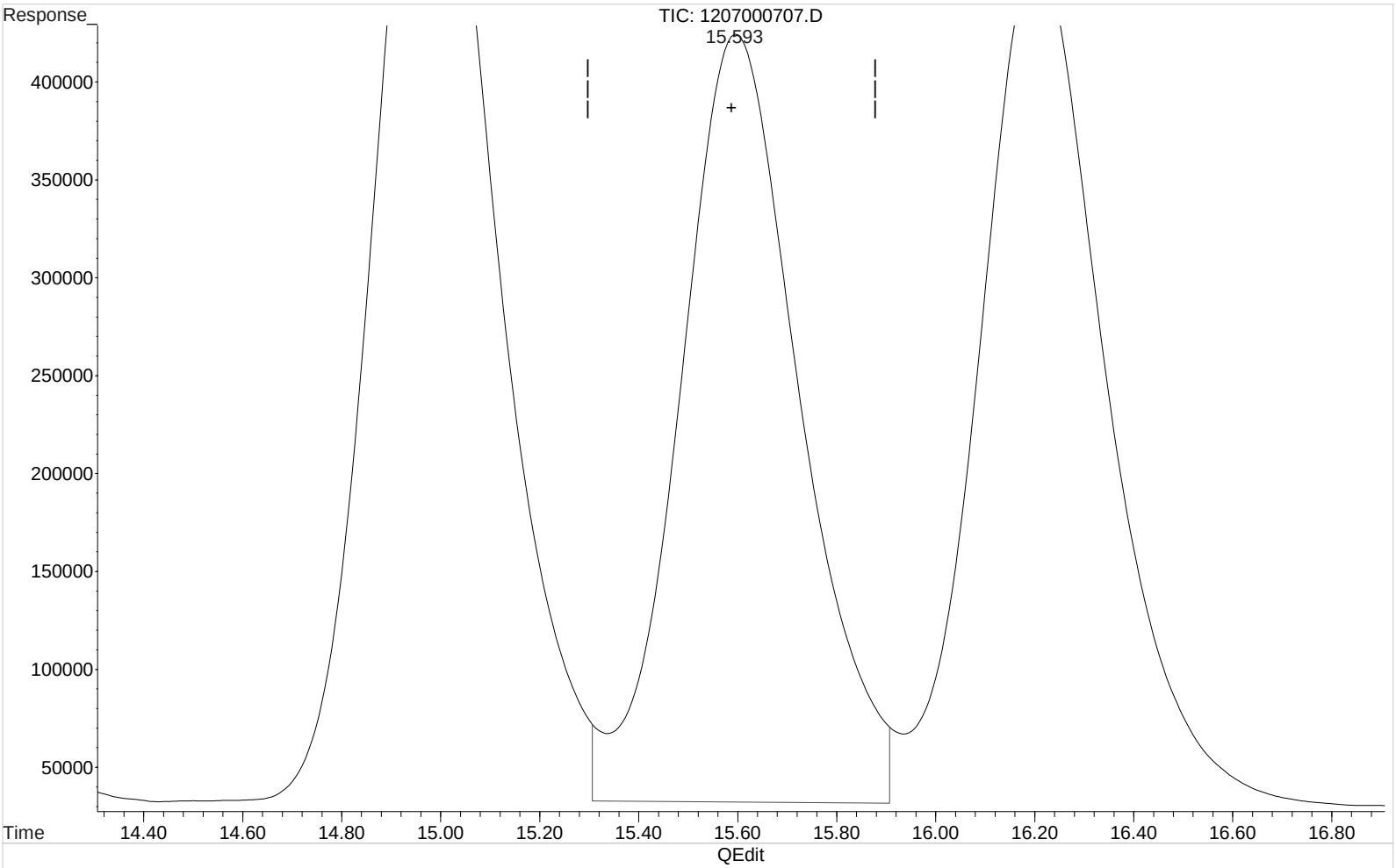
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.593min 196.528 ug/L

response 6600222

Manual Integration:

Before

12/08/16

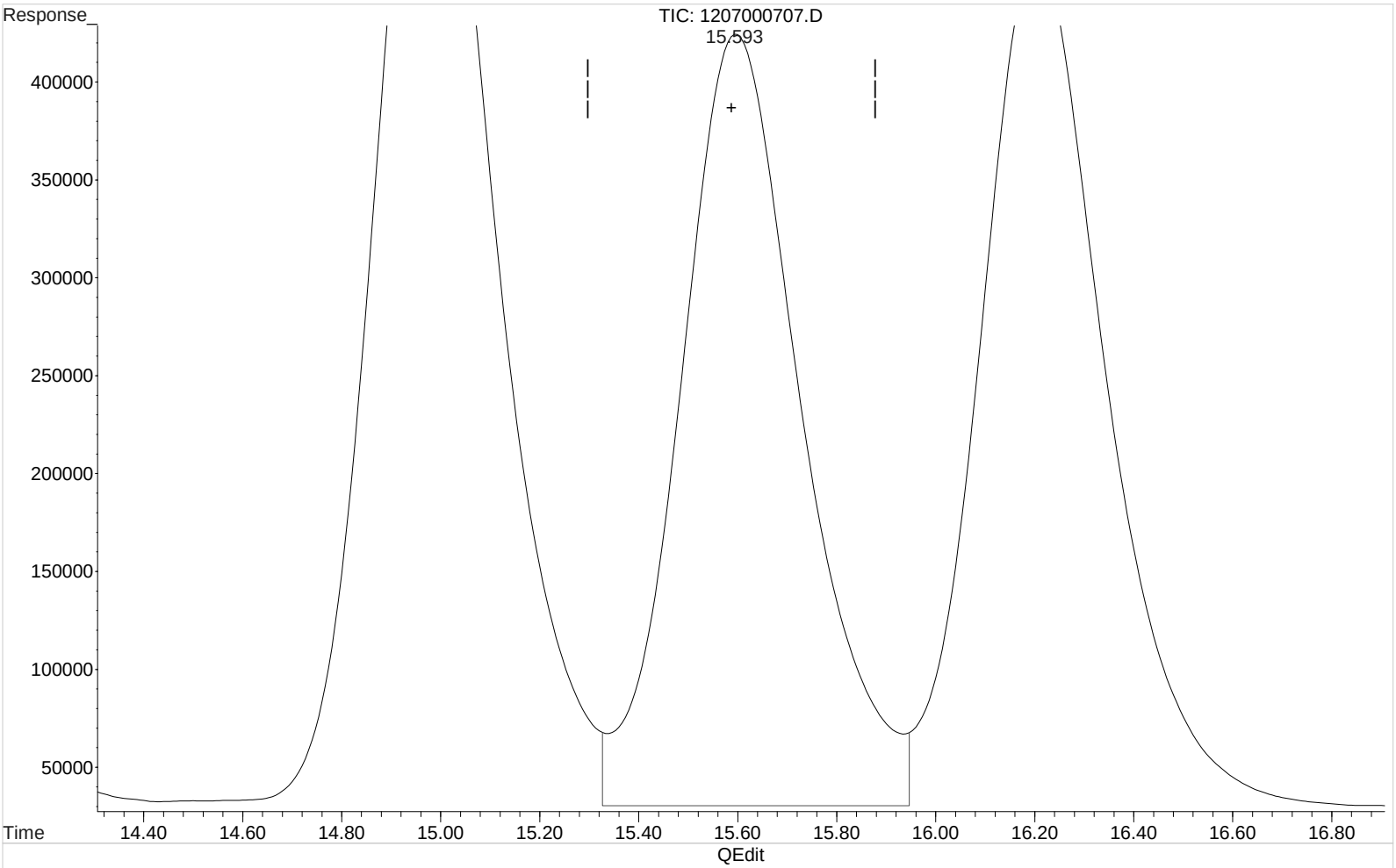
(+) = Expected Retention Time

(b) (6)
1st [redacted] 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.593min 199.929 ug/L m

response 6714428

Manual Integration:

After

BLC

12/08/16

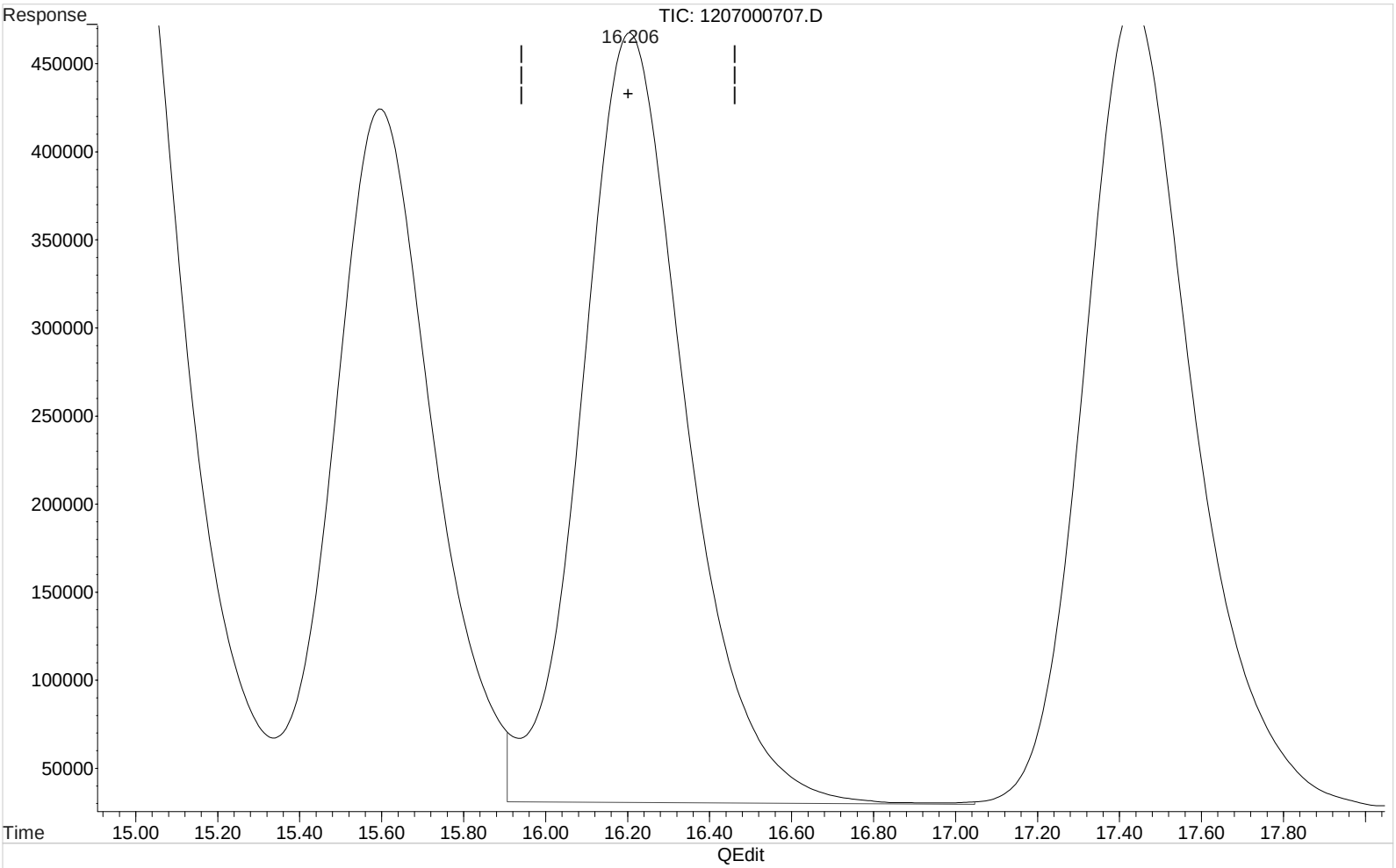
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.206min 198.294 ug/L

response 7713338

Manual Integration:

Before

12/08/16

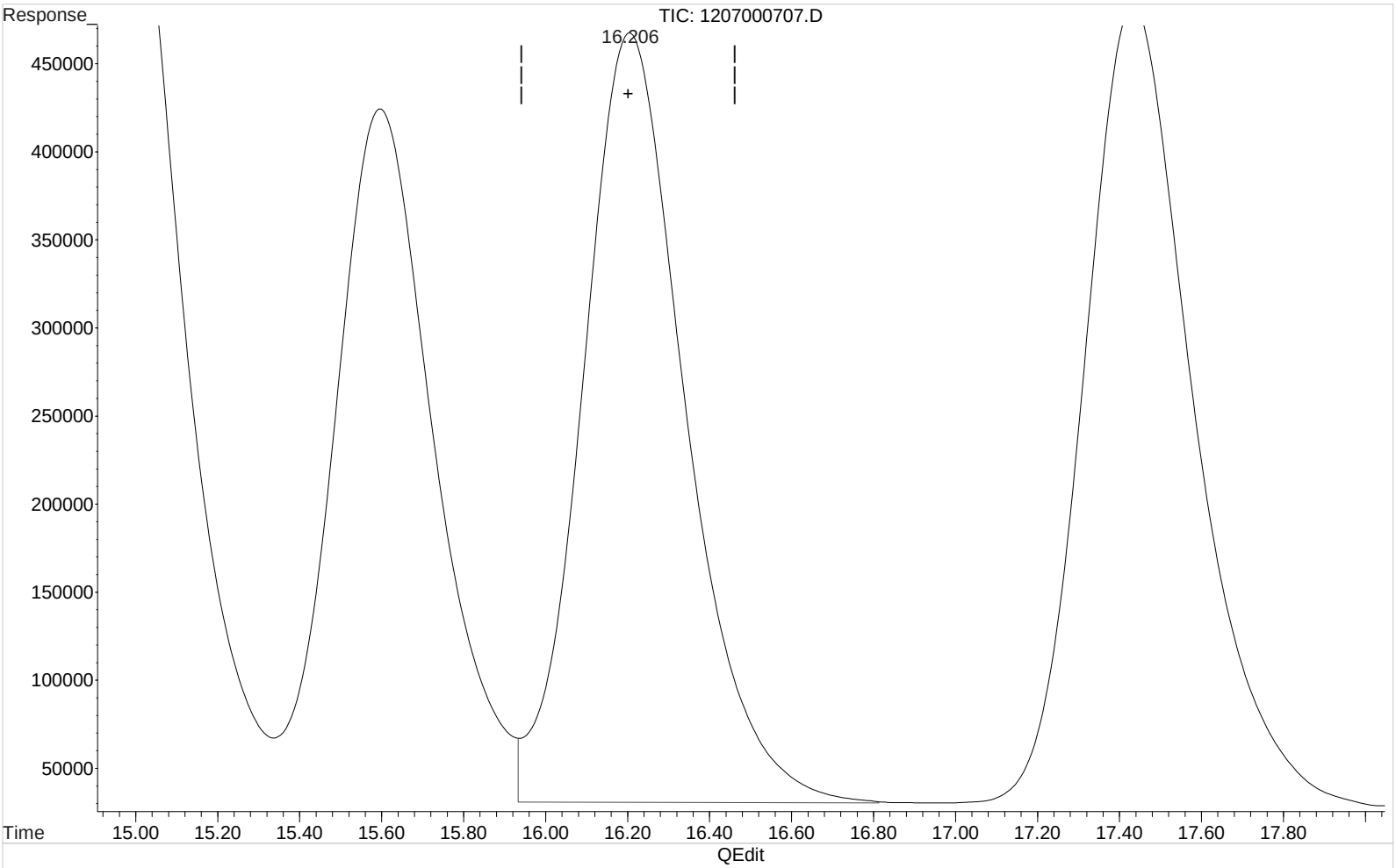
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.206min 196.210 ug/L m

response 7632300

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:15:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
18) S	1-Chloro-3-Nitrobenzene	29.705	10886437	488.432	ug/L	
	Target Compounds					
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2) T	HMX	4.785	6056374	506.562	ug/L	
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4) T	RDX	8.379	10003709	499.846	ug/L	
5) T	1,3,5-TNB	10.519	22540023	501.855	ug/L	
6) T	1,3-DNB	13.859	30302928	496.719	ug/L	
7) T	3,5-Dinitroaniline	14.965	24125484	503.745	ug/L	
8) T	Tetryl	15.585	16812702	500.659	ug/L	
9) T	Nitrobenzene	16.192	19511965	503.999	ug/L	
10) T	2,4,6-TNT	17.439	21176168	511.931	ug/L	
11) T	4-Amino-2,6-DNT	19.192	14984390	512.669	ug/L	
12) T	2-Amino-4,6-DNT	20.025	21286599	490.874	ug/L	
13) T	2,6-DNT	21.745	12560679	515.590	ug/L	m
14) T	2,4-DNT	22.205	29961095	510.697	ug/L	m
15) T	2-NT	25.325	9109097	507.283	ug/L	m
16) T	4-NT	26.252	8010069	496.306	ug/L	m
17) T	3-NT	27.379	10130589	501.548	ug/L	m

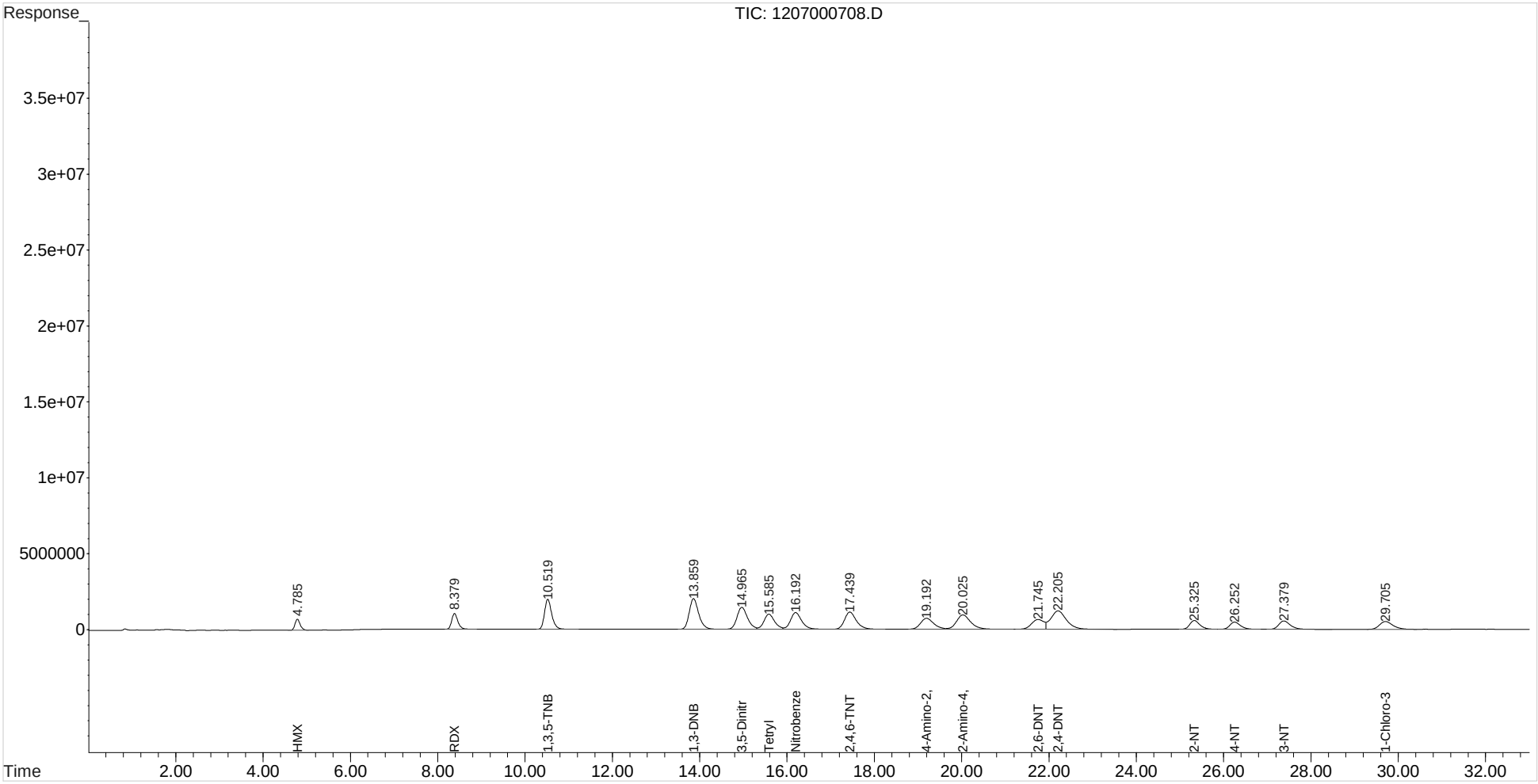
(f)=RT Delta > 1/2 Window (m)=manual int.

1st (b) (6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:15:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

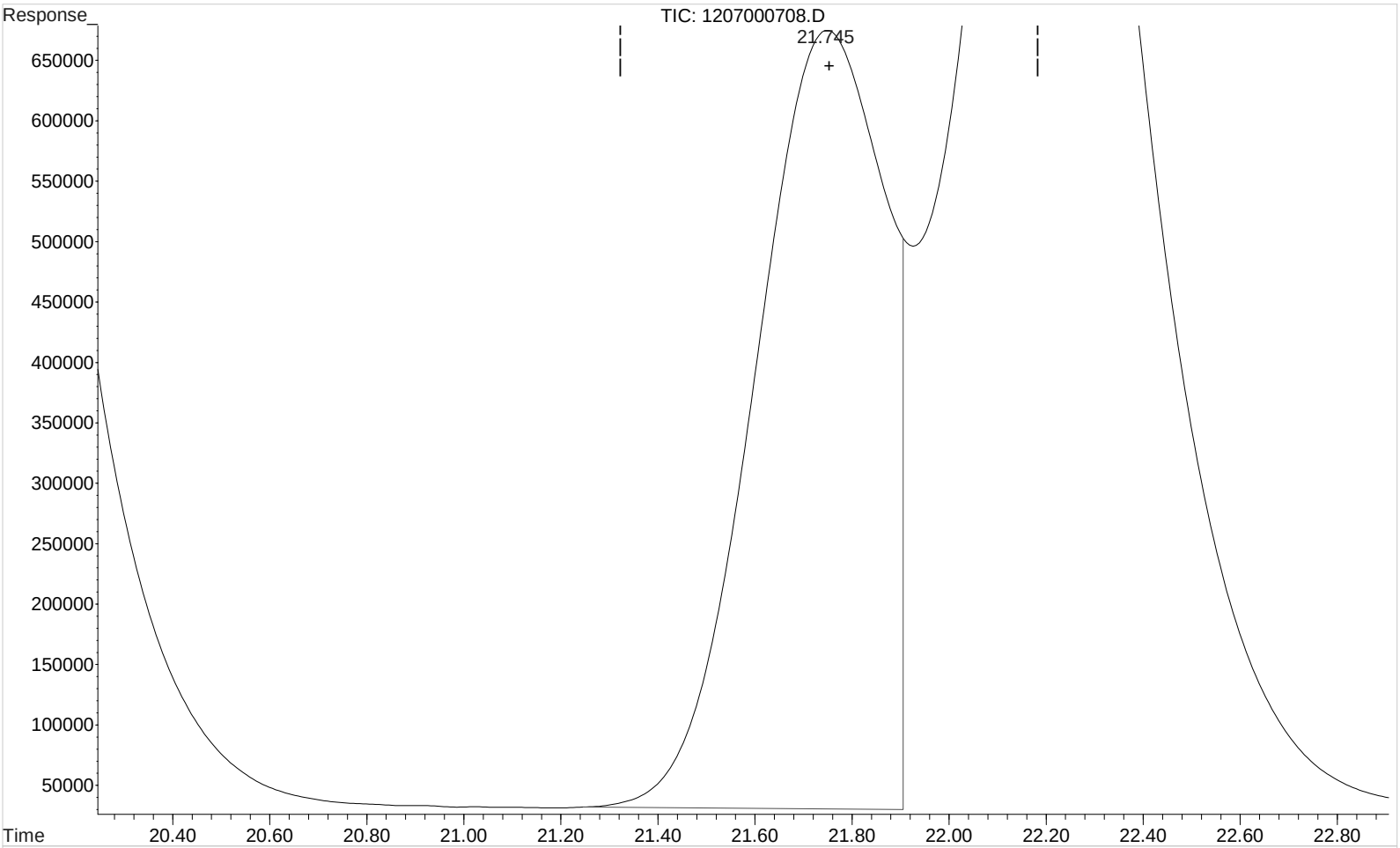


(b)(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.745min 493.038 ug/L

response 12011281

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

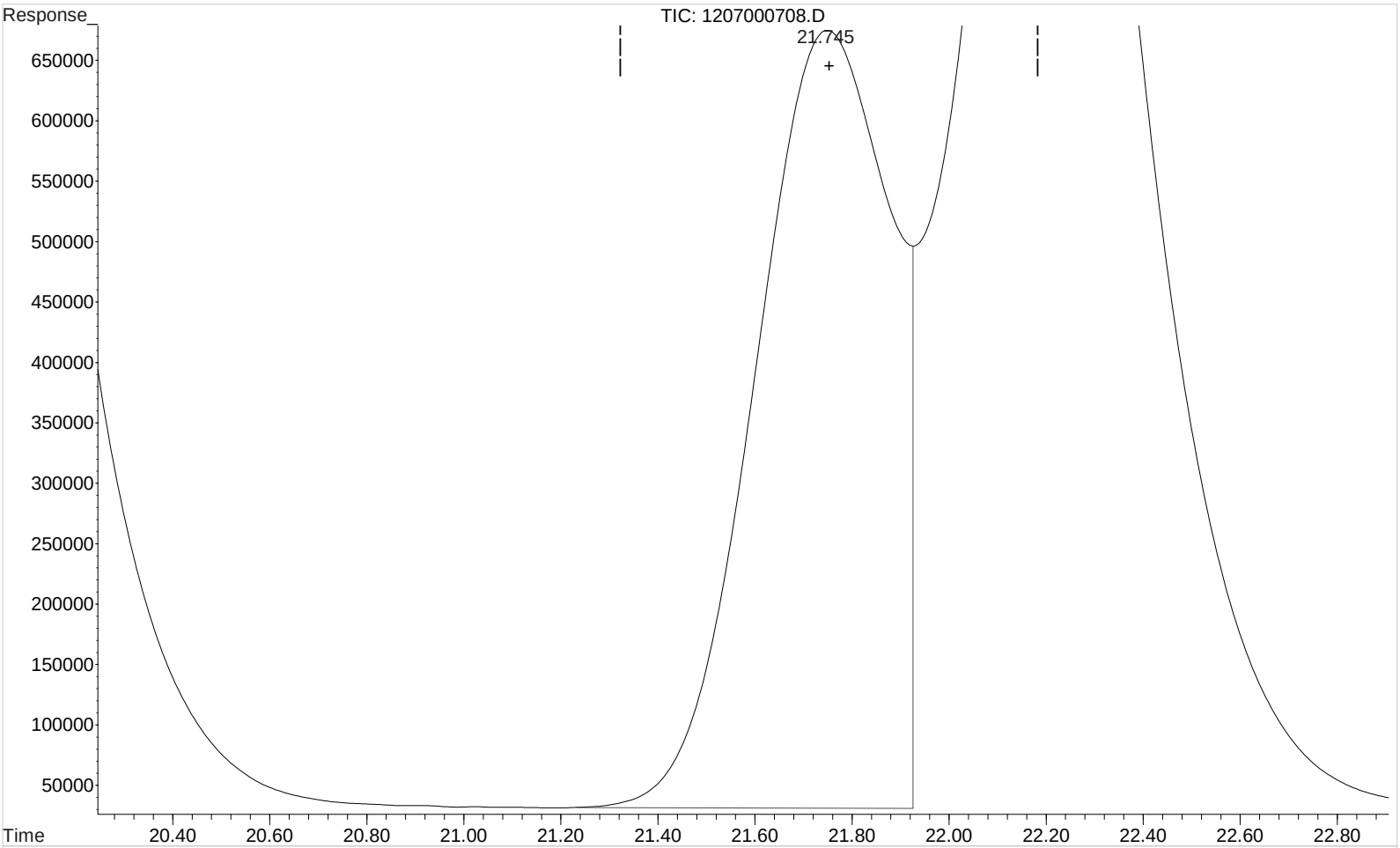
Quantitation Report (Qedit)

(b) (6)
1st 12/08/16
2n 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.745min 515.590 ug/L m

response 12560679

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)

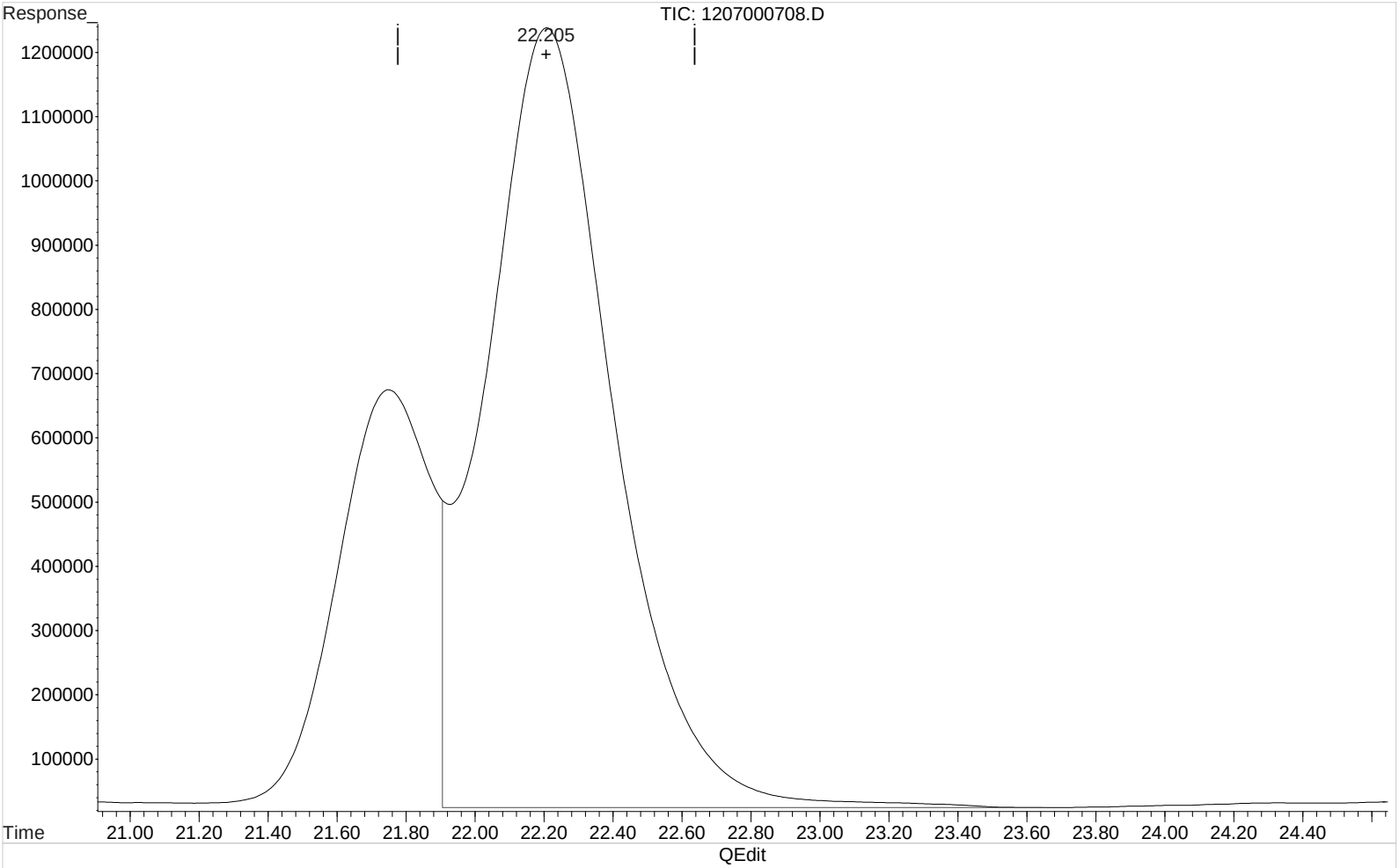
1st [redacted] 12/08/16

2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.205min 531.088 ug/L

response 31157389

Manual Integration:

Before

12/08/16

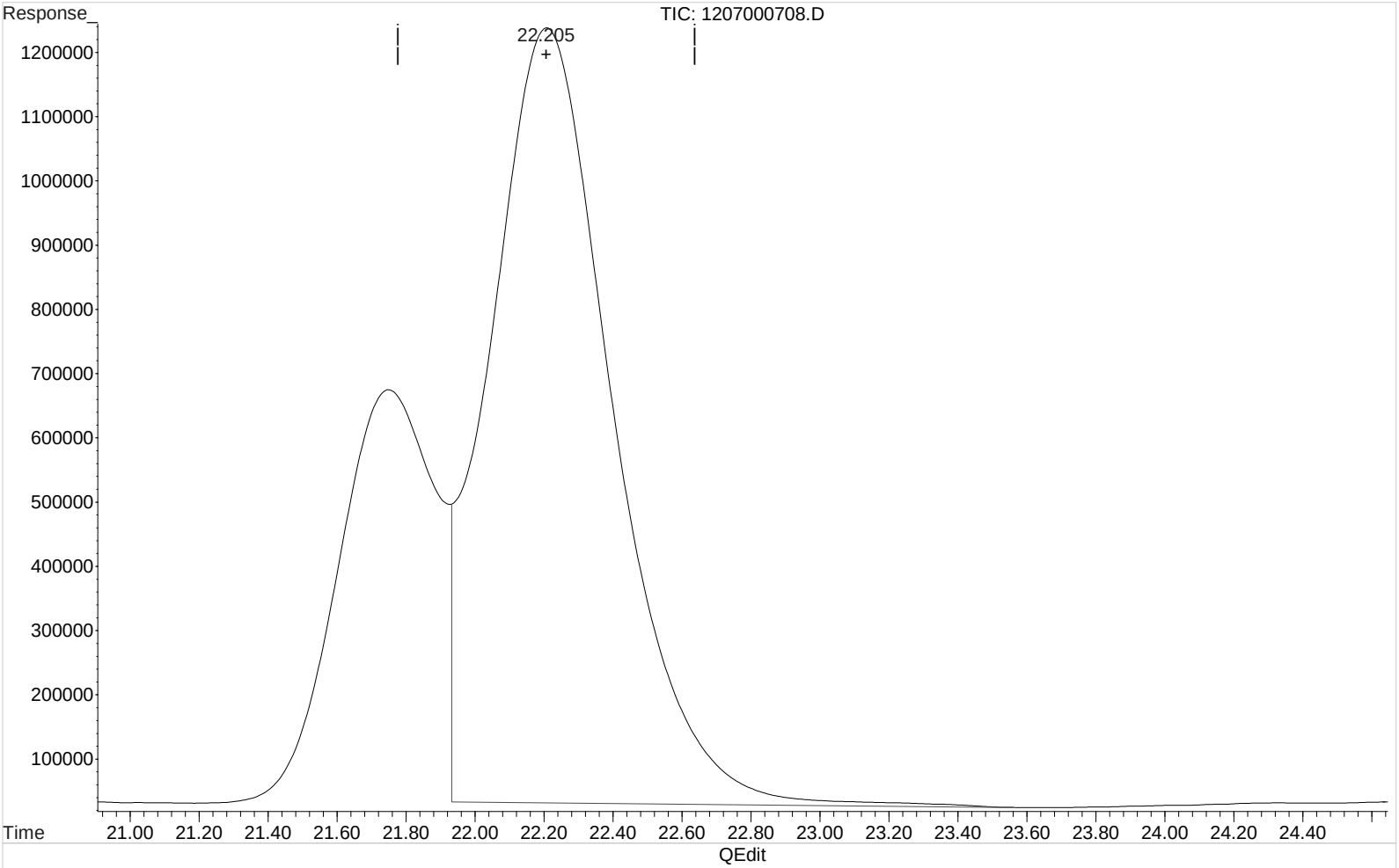
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.205min 510.697 ug/L m

response 29961095

Manual Integration:

After

BLC

12/08/16

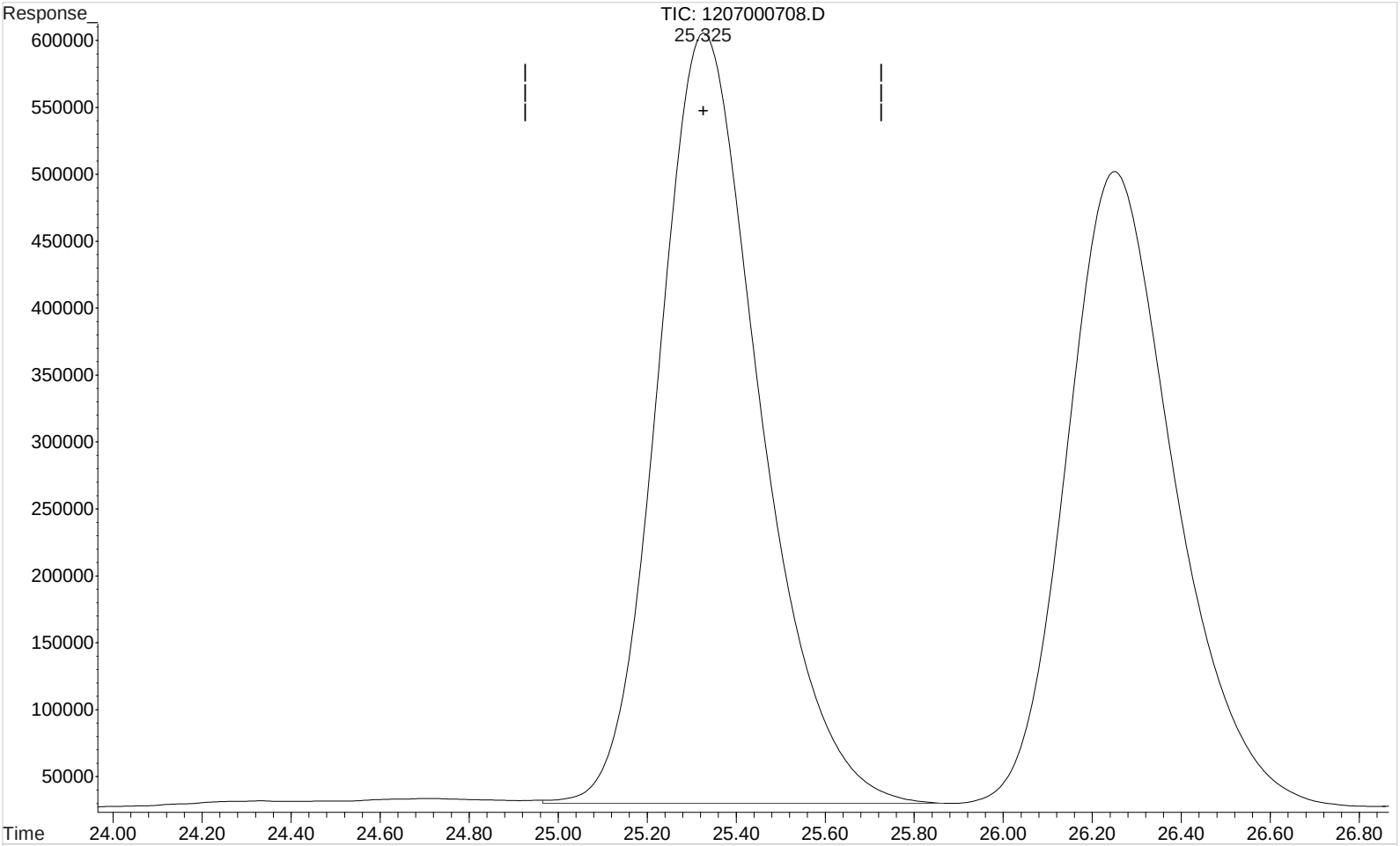
(+) = Expected Retention Time

(b) (6)
1st [redacted] 12/08/16
2n [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.325min 510.734 ug/L

response 9171057

Manual Integration:

Before

12/08/16

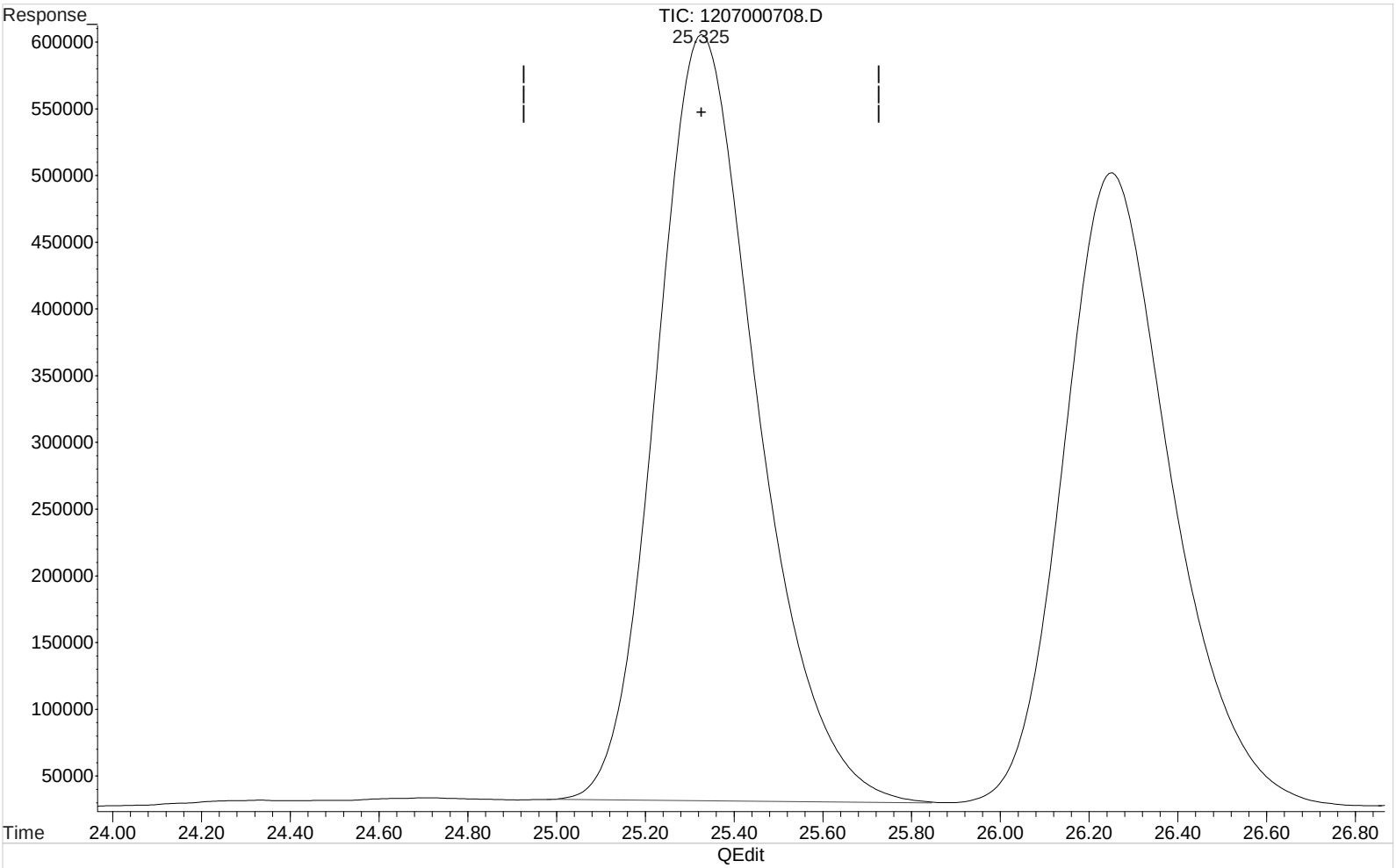
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.325min 507.283 ug/L m

response 9109097

Manual Integration:

After

BLC

12/08/16

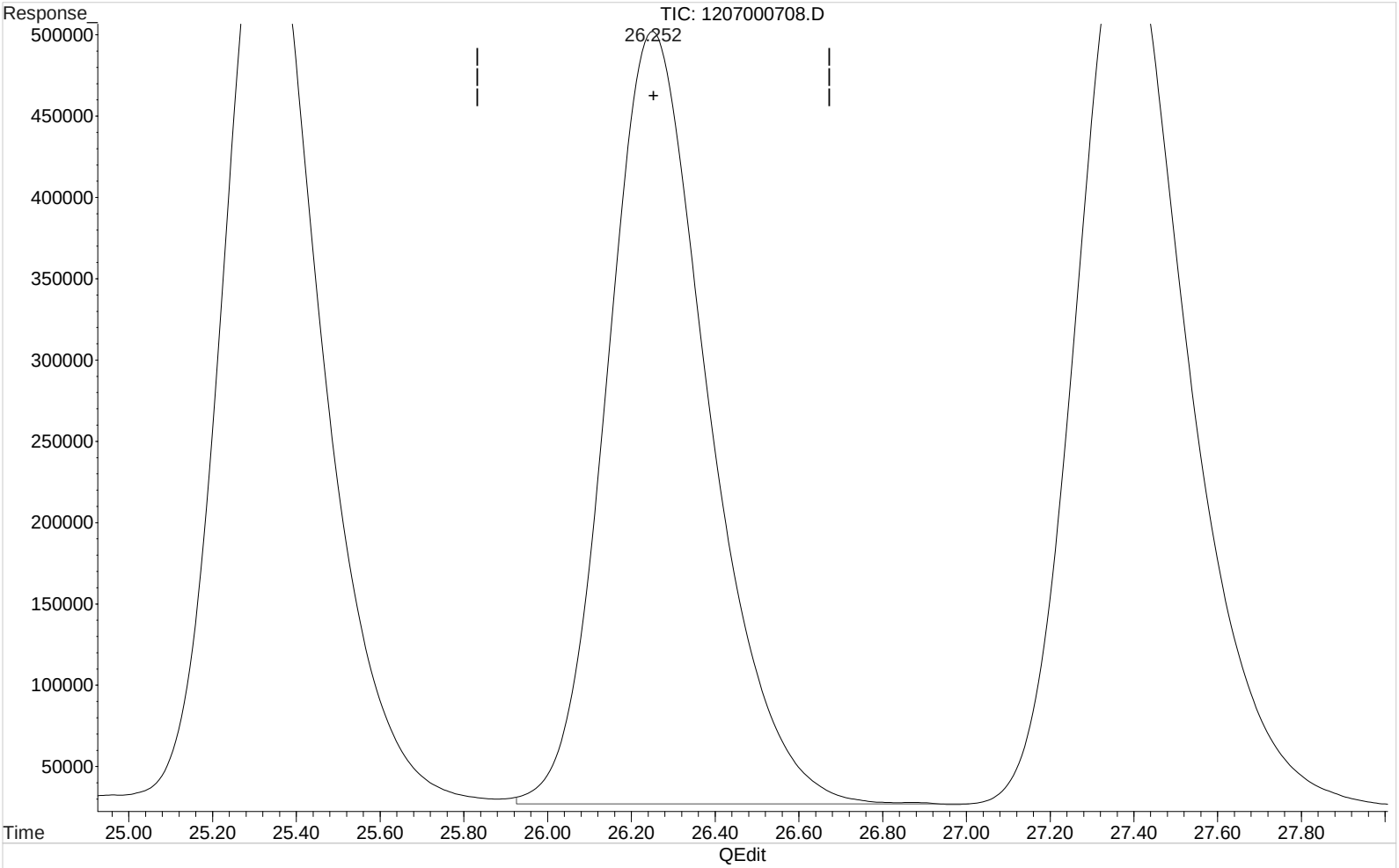
(+) = Expected Retention Time

1st [redacted] 2/08/16
2nd [redacted] 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.252min 498.182 ug/L

response 8040347

Manual Integration:

Before

12/08/16

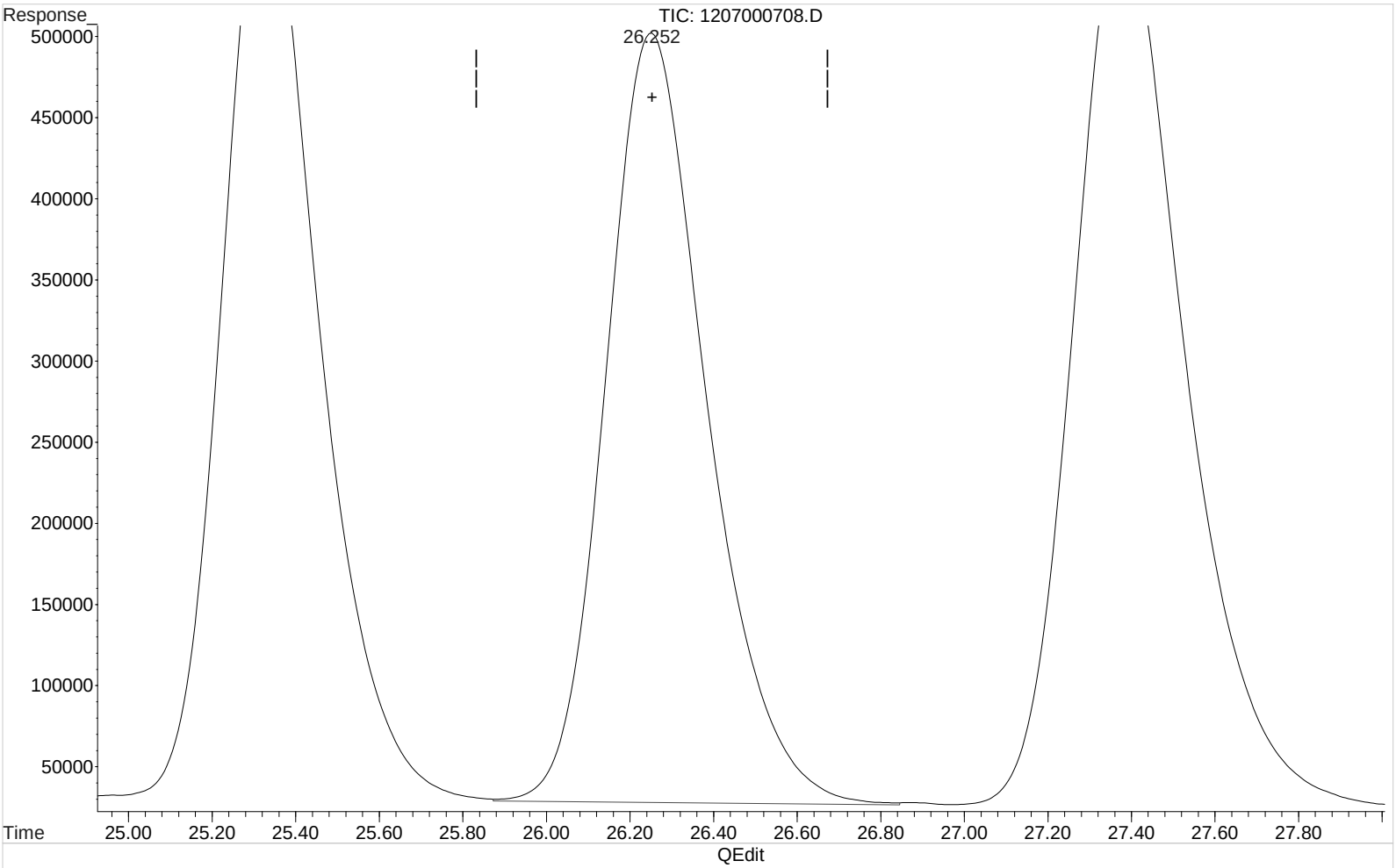
(+) = Expected Retention Time

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.252min 496.306 ug/L m

response 8010069

Manual Integration:

After

BLC

12/08/16

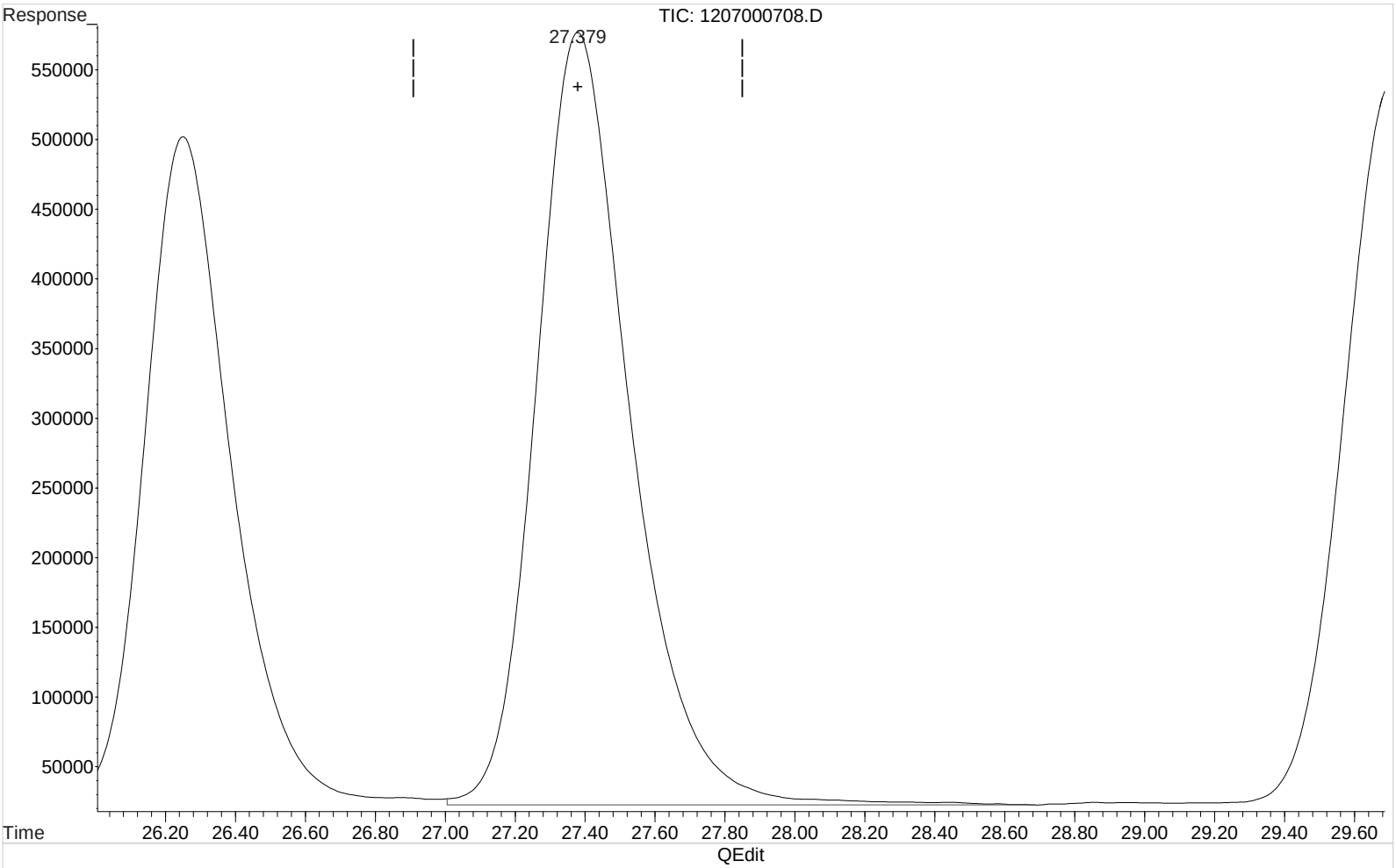
(+) = Expected Retention Time

(b) (6)
1st 12/08/16
2n 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(17) 3-NT (T)

27.379min 512.791 ug/L

response 10357684

Manual Integration:

Before

12/08/16

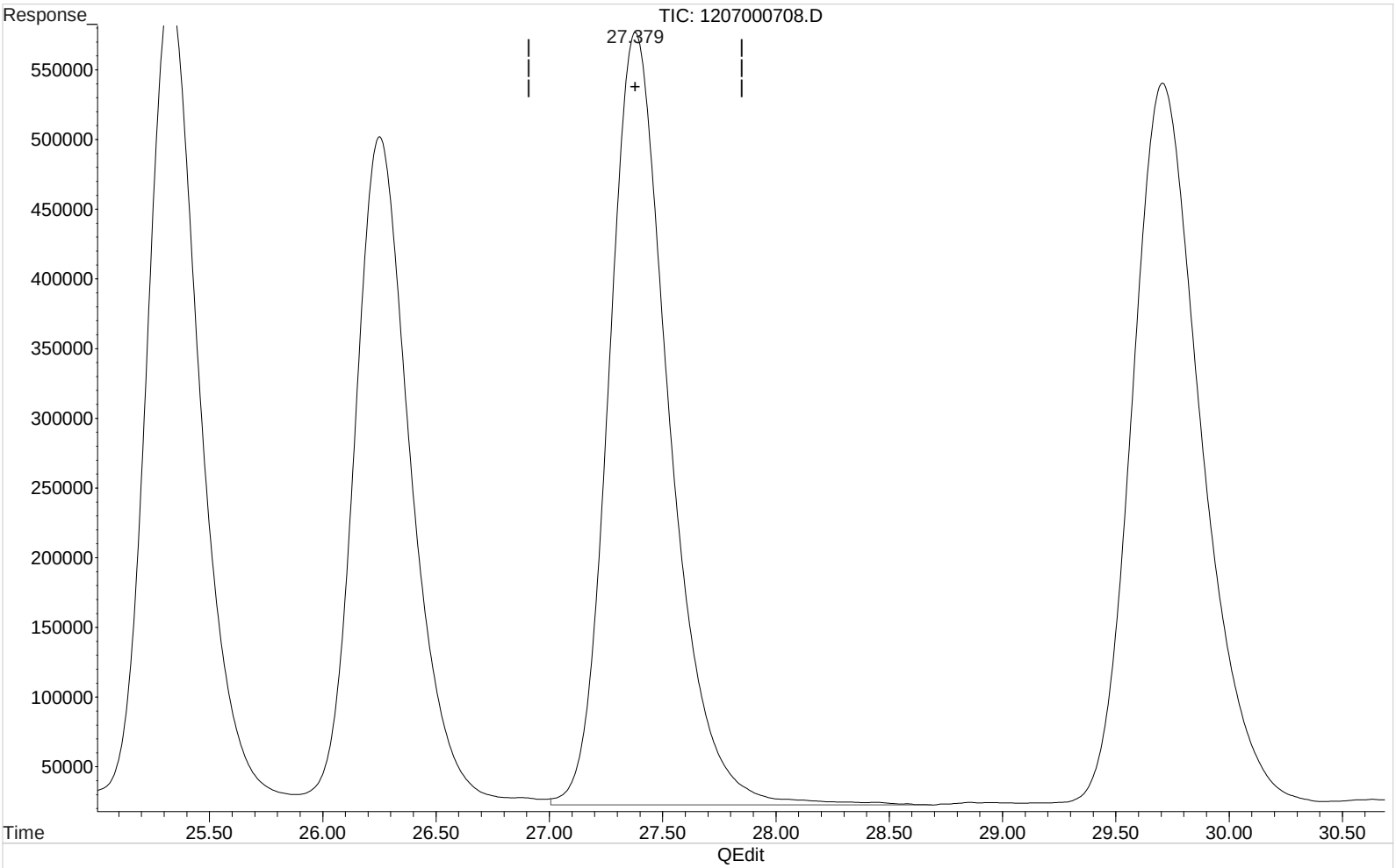
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.379min 512.791 ug/L

response 10357684

Manual Integration:

Before

12/08/16

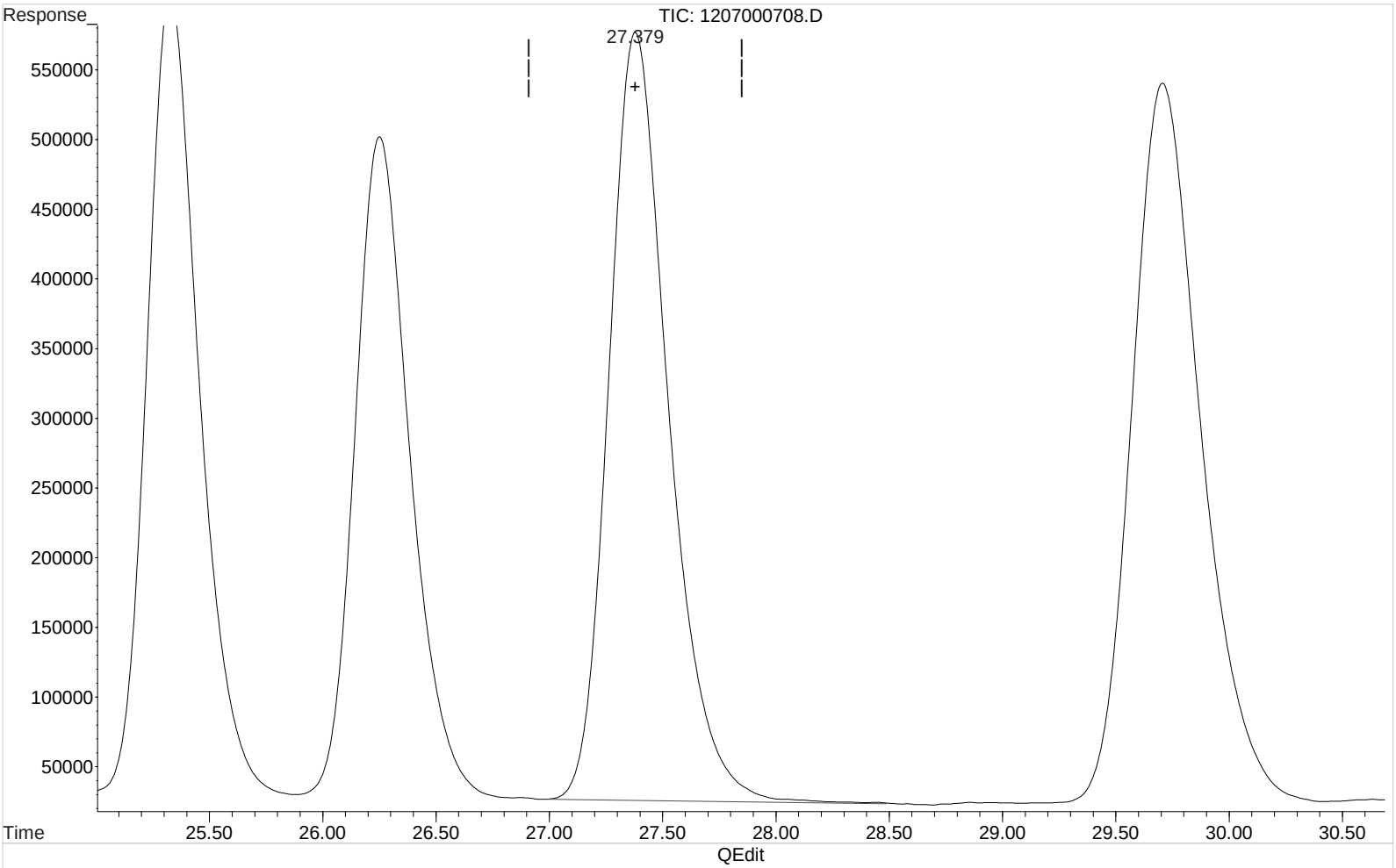
(+) = Expected Retention Time

1st (b)(6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.379min 501.548 ug/L m

response 10130589

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000709.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:17:24 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:16:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds							
18)	S	1-Chloro-3-Nitrobenzene	29.704	21424748	965.714	ug/L	
Target Compounds							
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	4.784	11949913	996.887	ug/L	
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	8.377	19595263	979.158	ug/L	
5)	T	1,3,5-TNB	10.517	44322350	986.108	ug/L	
6)	T	1,3-DNB	13.864	59271553	972.844	ug/L	
7)	T	3,5-Dinitroaniline	14.970	47161666	983.273	ug/L	
8)	T	Tetryl	15.584	33058166	984.167	ug/L	
9)	T	Nitrobenzene	16.190	38294717	987.582	ug/L	
10)	T	2,4,6-TNT	17.424	41608108	1001.093	ug/L	
11)	T	4-Amino-2,6-DNT	19.184	29562551	1006.339	ug/L	
12)	T	2-Amino-4,6-DNT	20.017	41752958	966.360	ug/L	
13)	T	2,6-DNT	21.744	24453723	997.554	ug/L	m
14)	T	2,4-DNT	22.204	58902914	999.743	ug/L	m
15)	T	2-NT	25.324	17886628	993.209	ug/L	
16)	T	4-NT	26.244	15580571	966.804	ug/L	
17)	T	3-NT	27.377	20277426	1003.280	ug/L	

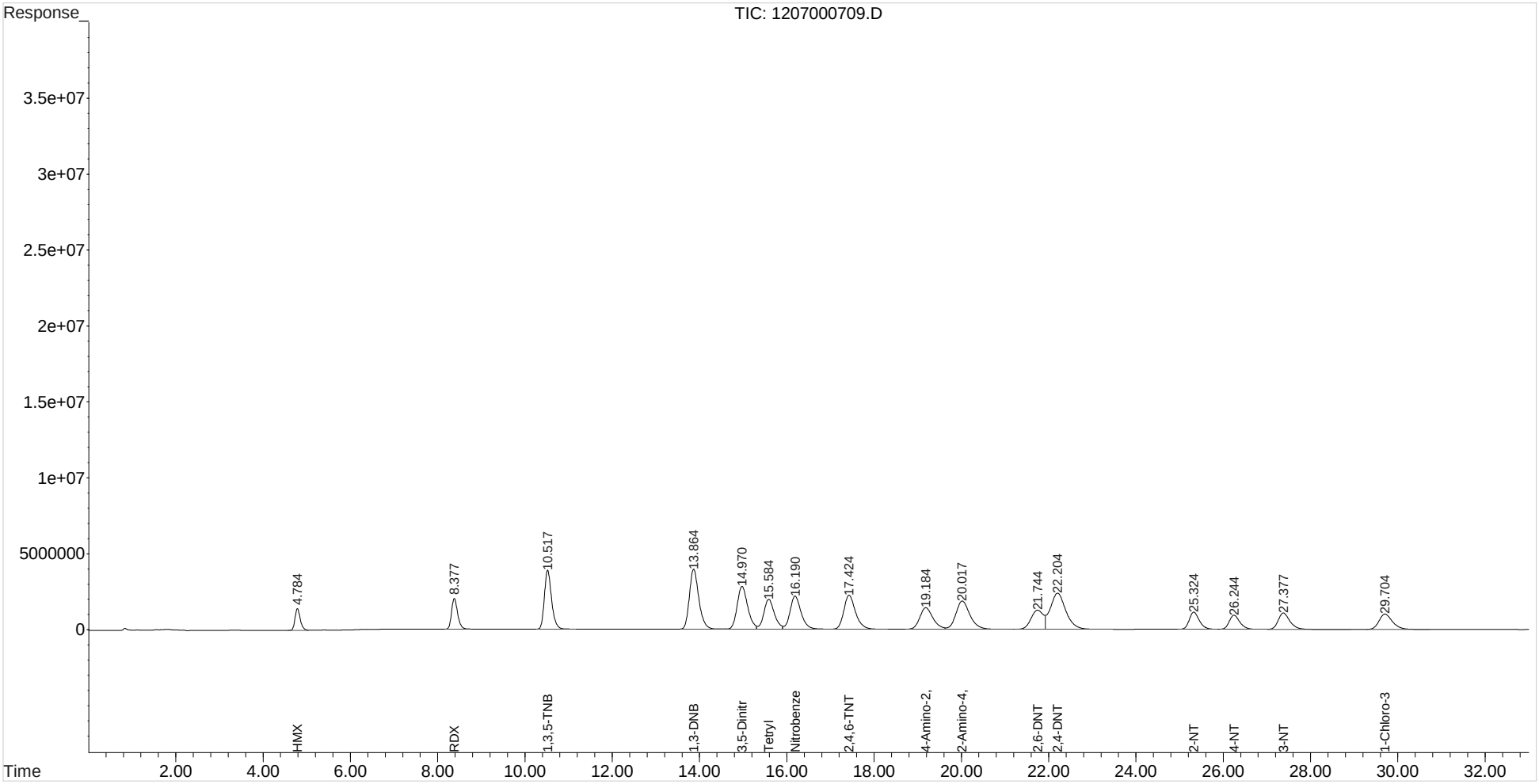
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000709.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:17:24 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:16:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

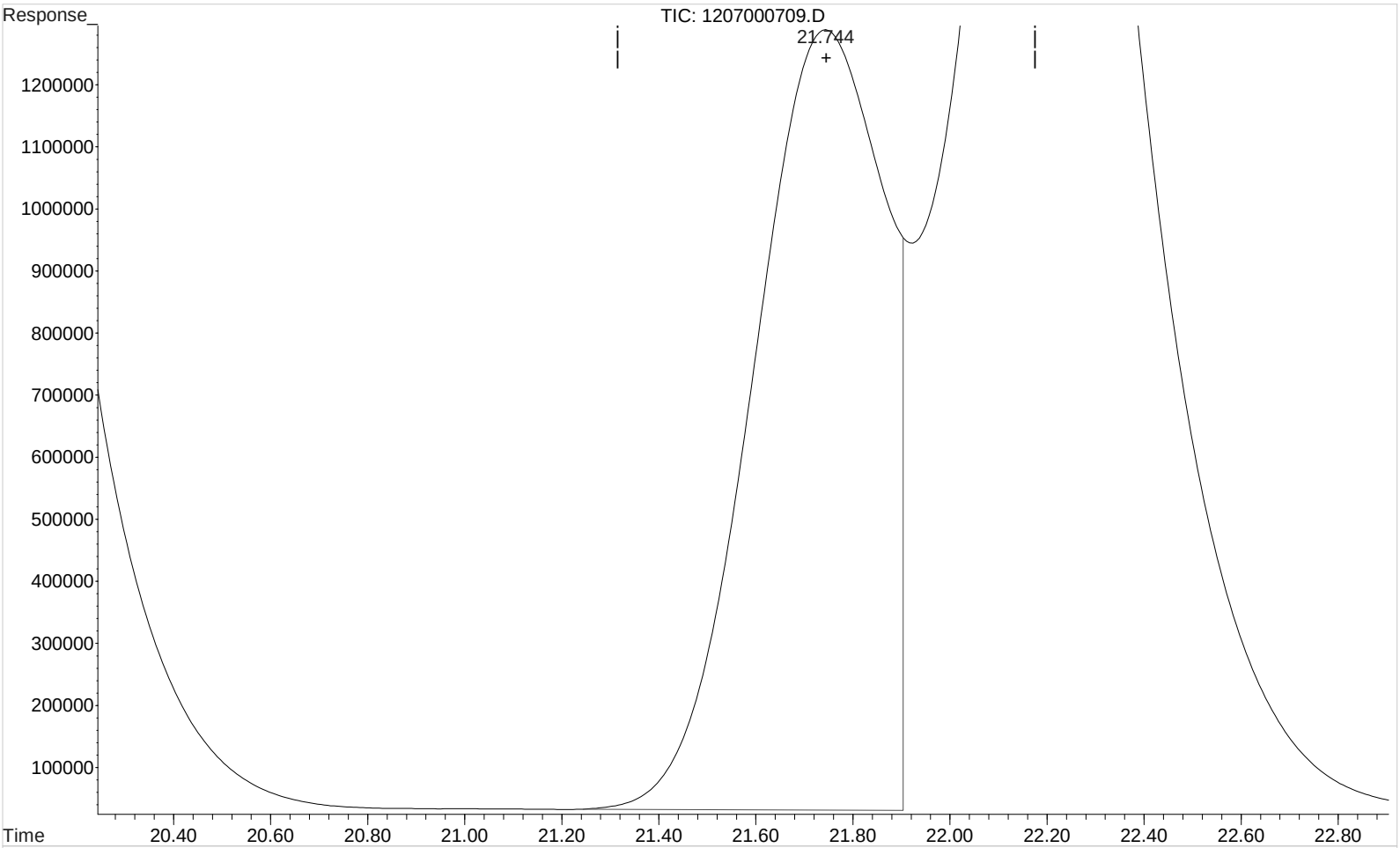


(b) (6)
1st 12/08/16
2n 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000709.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:16:36 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:16:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.744min 967.112 ug/L

response 23707470

Manual Integration:

Before

12/08/16

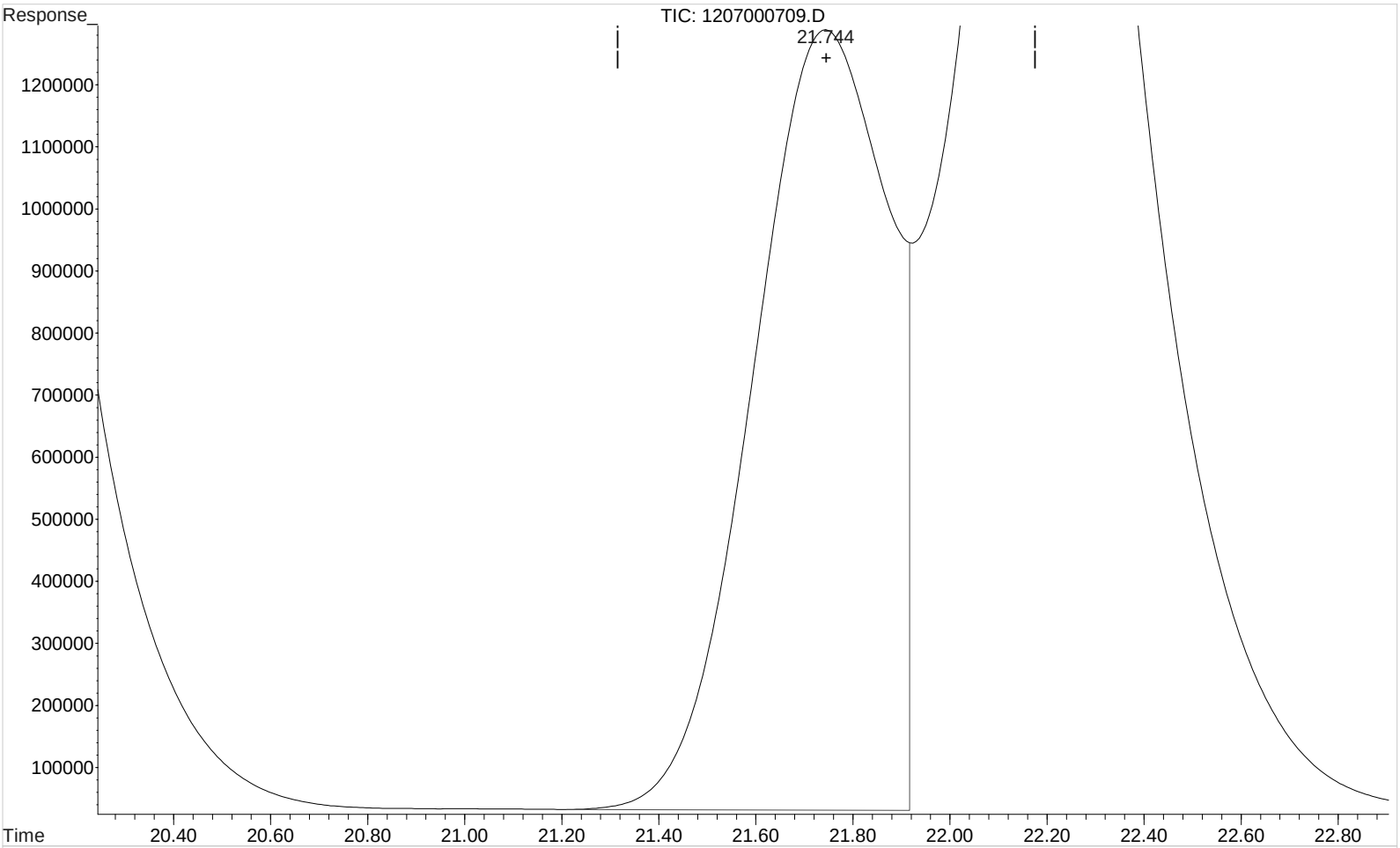
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000709.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:16:36 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:16:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.744min 997.554 ug/L m

response 24453723

Manual Integration:

After

BLC

12/08/16

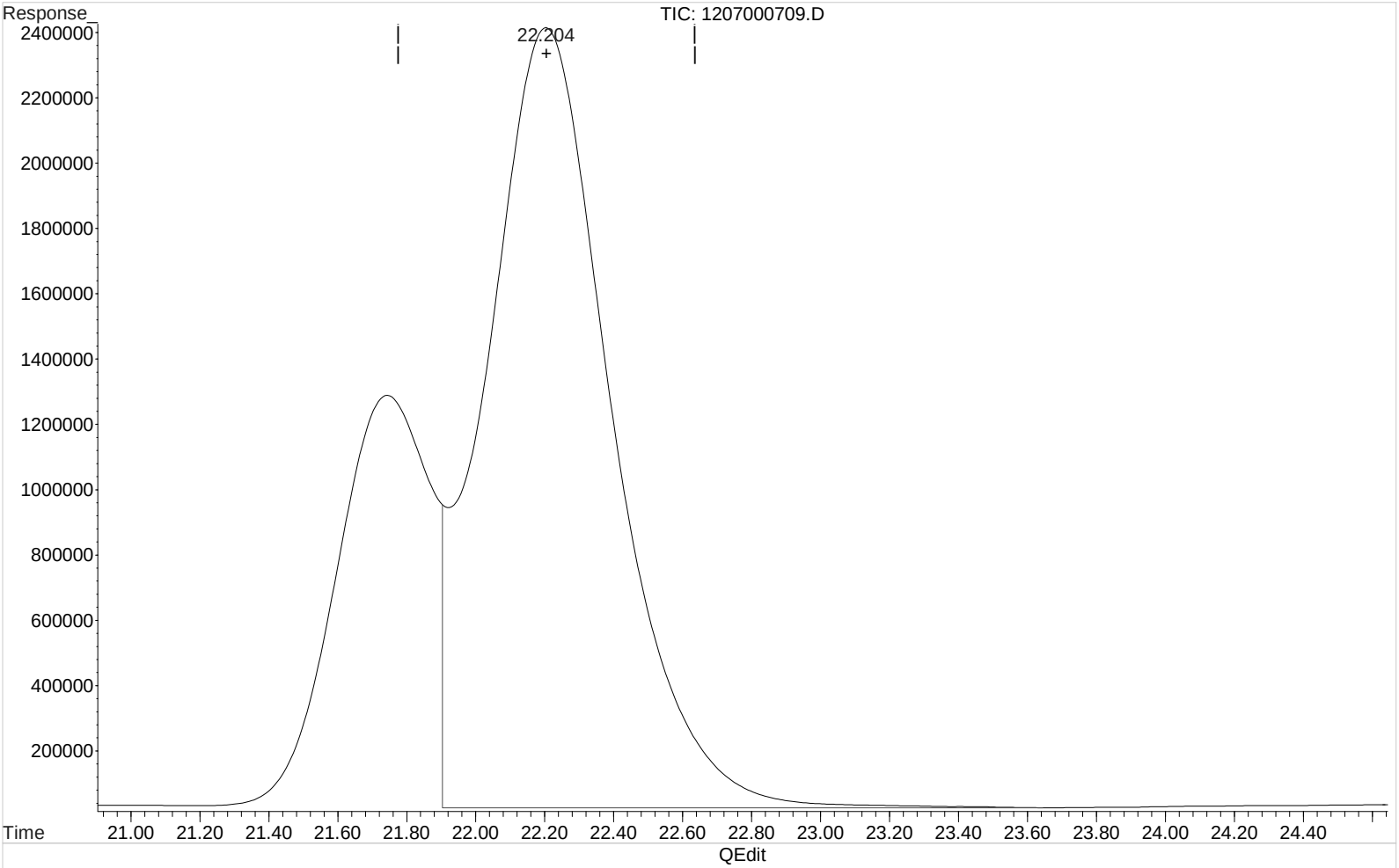
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000709.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:16:36 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:16:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.204min 1026.588 ug/L

response 60484608

Manual Integration:

Before

12/08/16

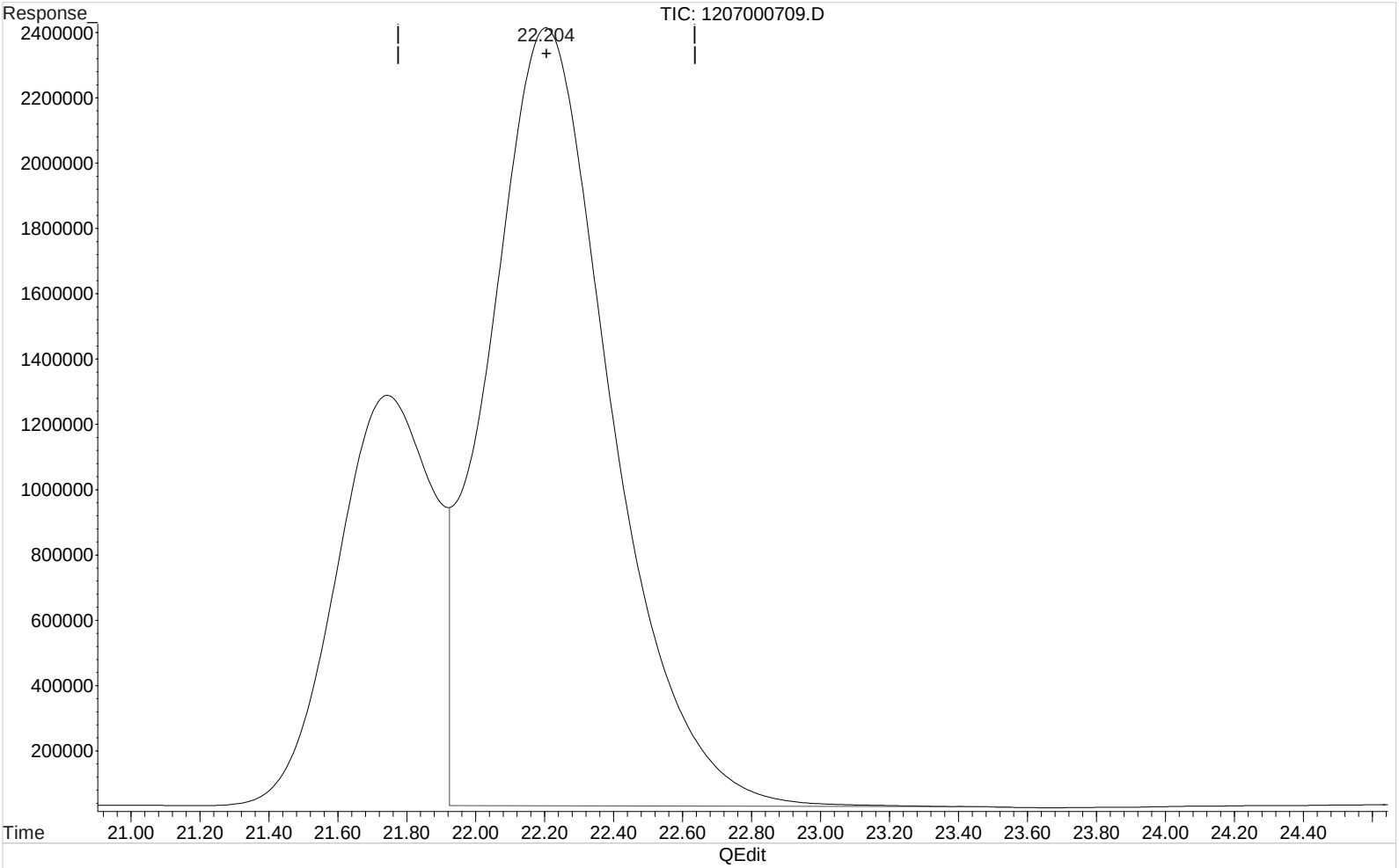
(+) = Expected Retention Time

1st (b) (6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000709.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:16:36 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:16:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.204min 999.743 ug/L m

response 58902914

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:19:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
18) S	1-Chloro-3-Nitrobenzene	29.700	42294963	1917.388	ug/L	
	Target Compounds					
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2) T	HMX	4.787	23722211	1979.985	ug/L	m
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4) T	RDX	8.380	38913573	1951.255	ug/L	
5) T	1,3,5-TNB	10.520	87503916	1951.353	ug/L	
6) T	1,3-DNB	13.860	117702258	1940.670	ug/L	
7) T	3,5-Dinitroaniline	14.967	93512376	1955.089	ug/L	m
8) T	Tetryl	15.587	65318779	1949.736	ug/L	
9) T	Nitrobenzene	16.200	76224644	1969.834	ug/L	
10) T	2,4,6-TNT	17.440	82170115	1976.657	ug/L	
11) T	4-Amino-2,6-DNT	19.200	58780326	1998.831	ug/L	
12) T	2-Amino-4,6-DNT	20.034	81844649	1904.951	ug/L	
13) T	2,6-DNT	21.754	47948148	1956.773	ug/L	m
14) T	2,4-DNT	22.214	117648318	1996.898	ug/L	m
15) T	2-NT	25.327	35281189	1961.314	ug/L	
16) T	4-NT	26.247	30767210	1919.786	ug/L	
17) T	3-NT	27.380	39399716	1948.341	ug/L	

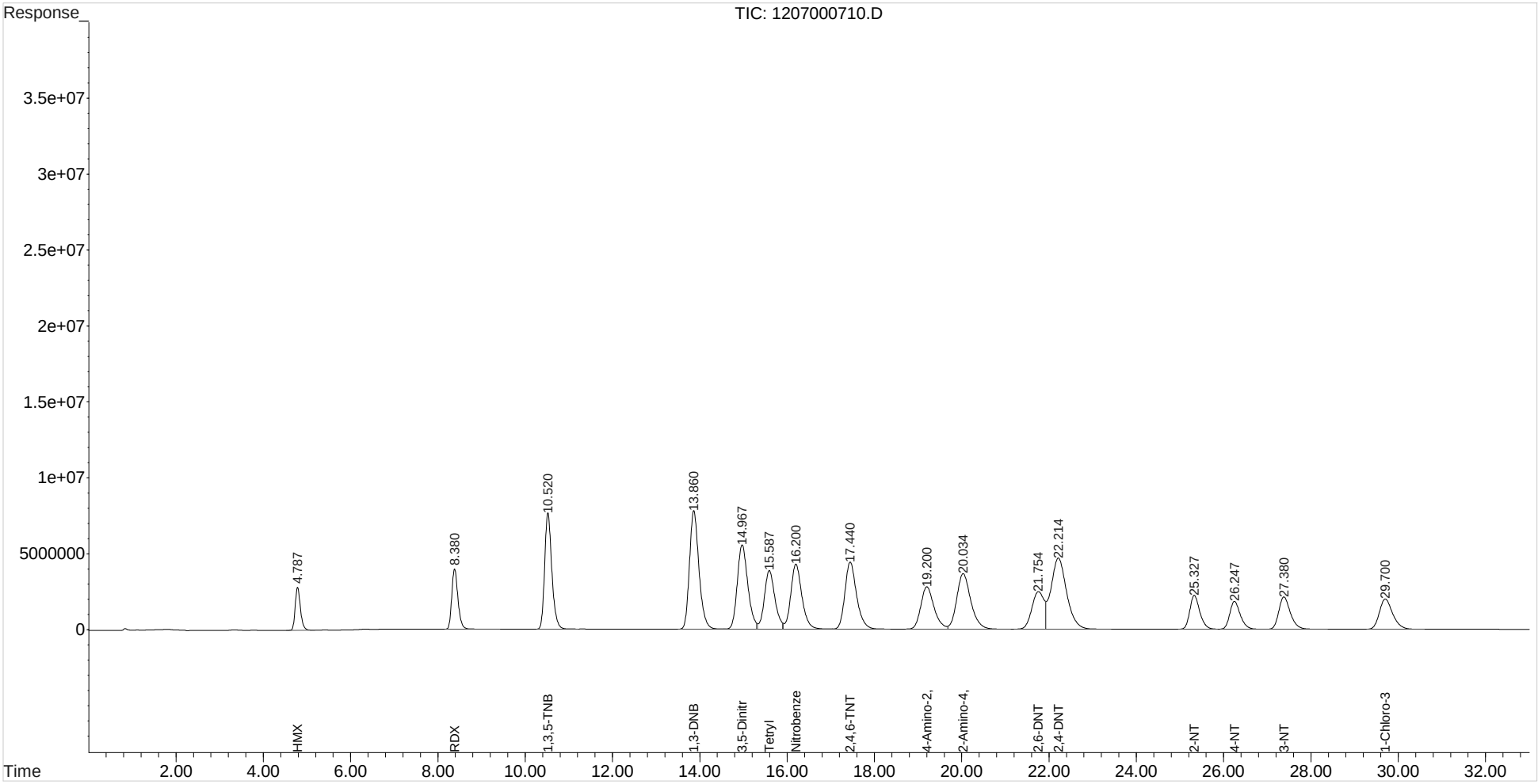
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:19:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

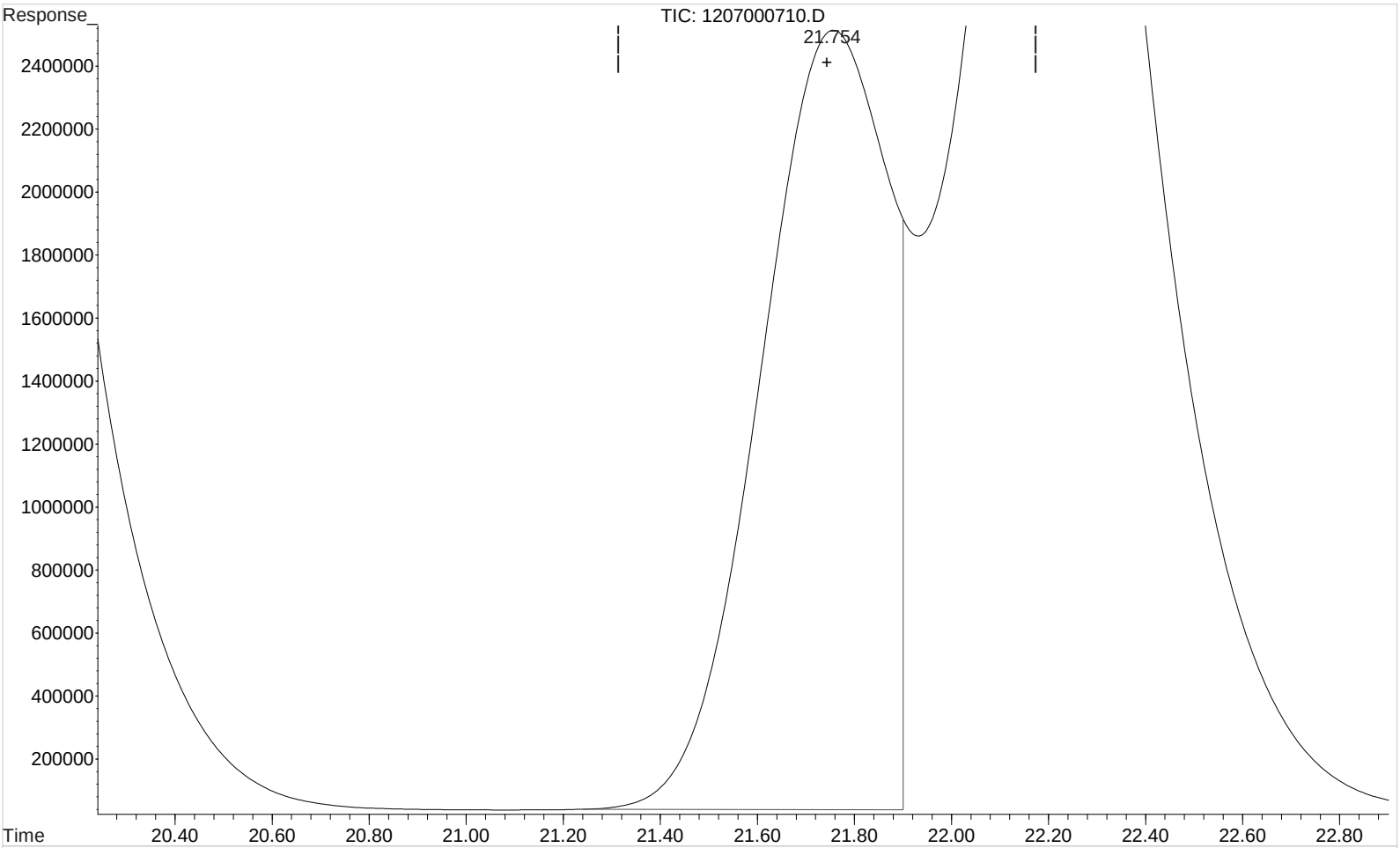


(b) (6)
1s 2/08/16
2n 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.754min 1840.068 ug/L

response 45088454

Manual Integration:

Before

12/08/16

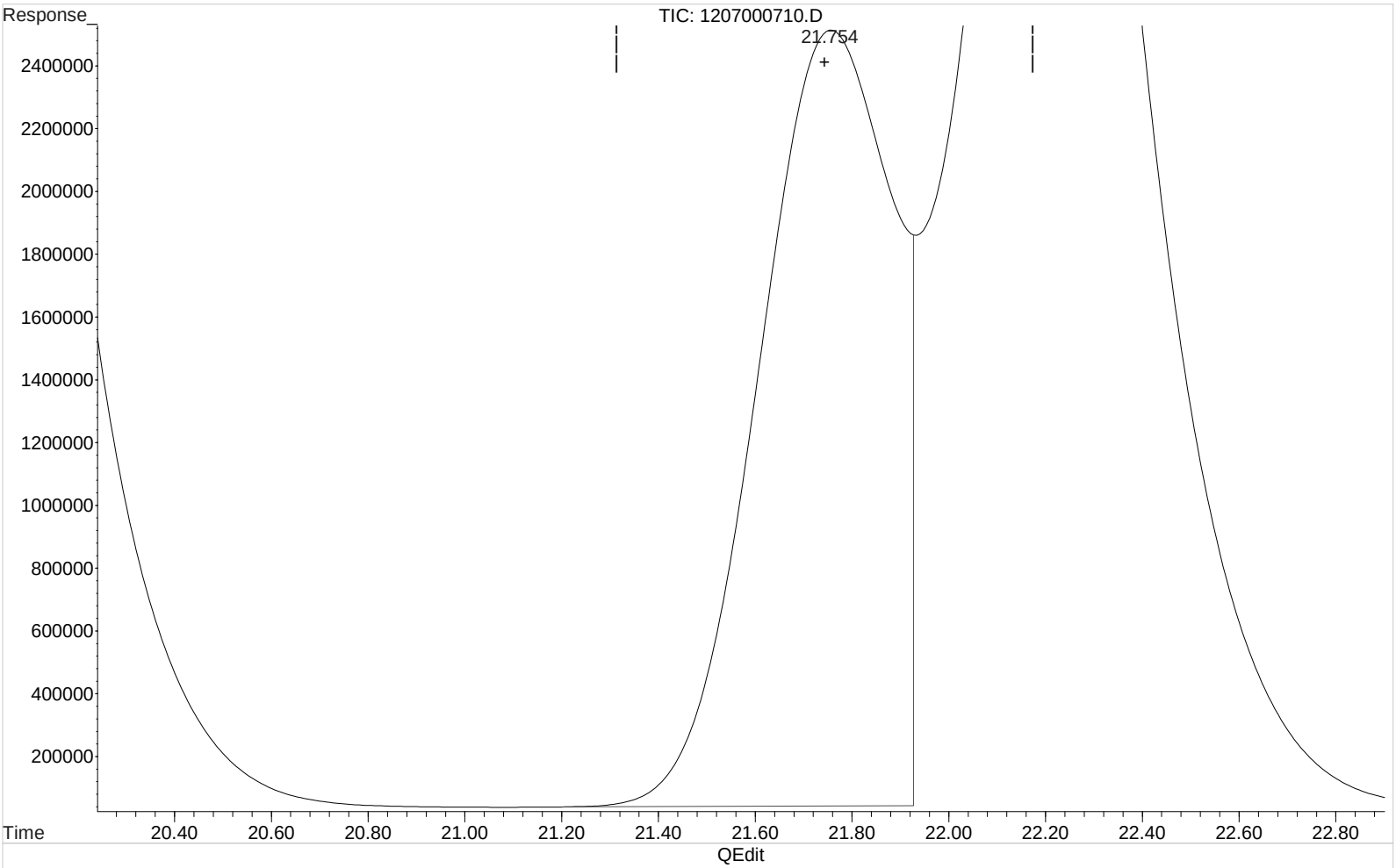
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.754min 1956.773 ug/L m

response 47948148

Manual Integration:

After

WP

12/08/16

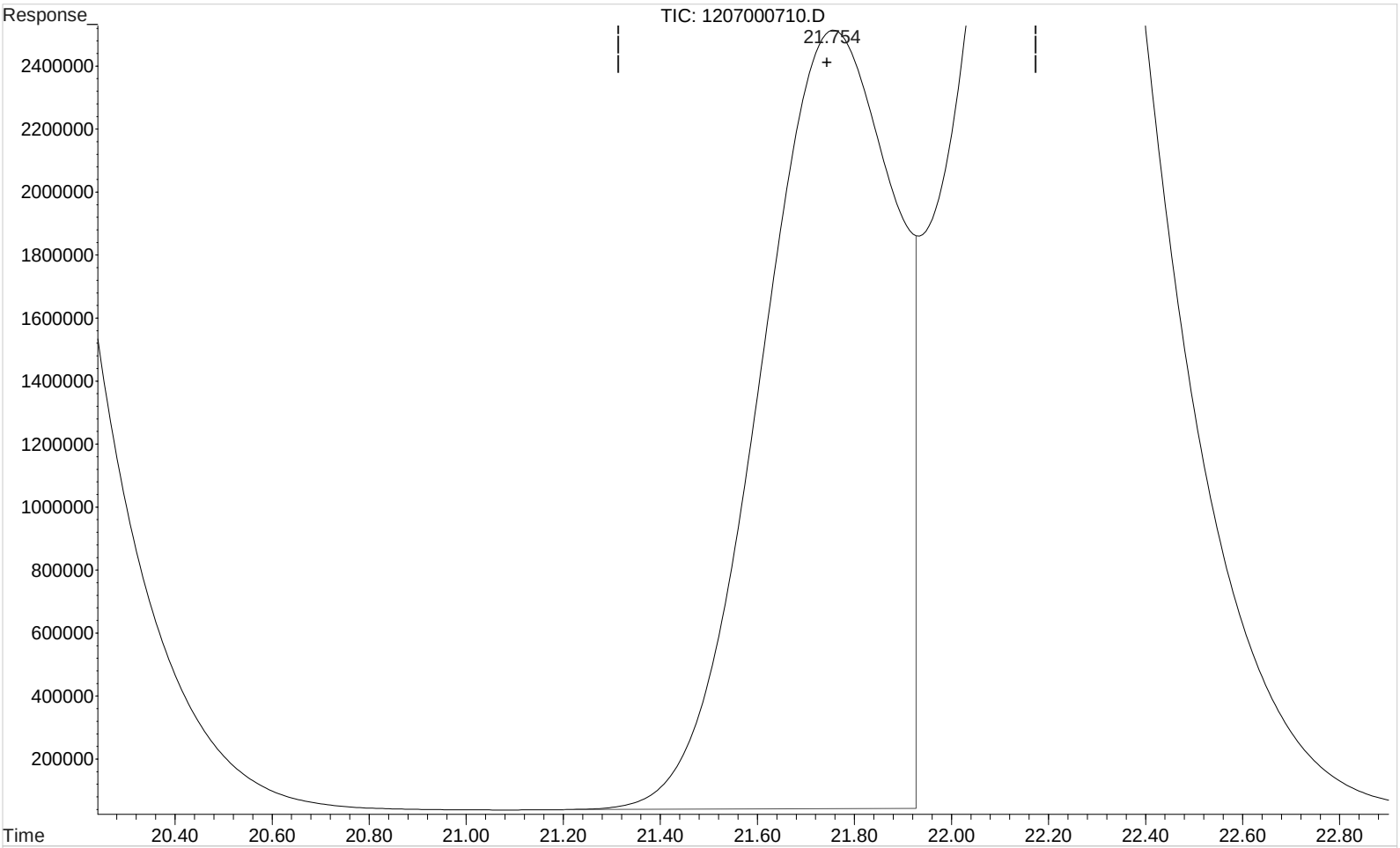
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.754min 1956.773 ug/L m

response 47948148

Manual Integration:

After

BLC

12/08/16

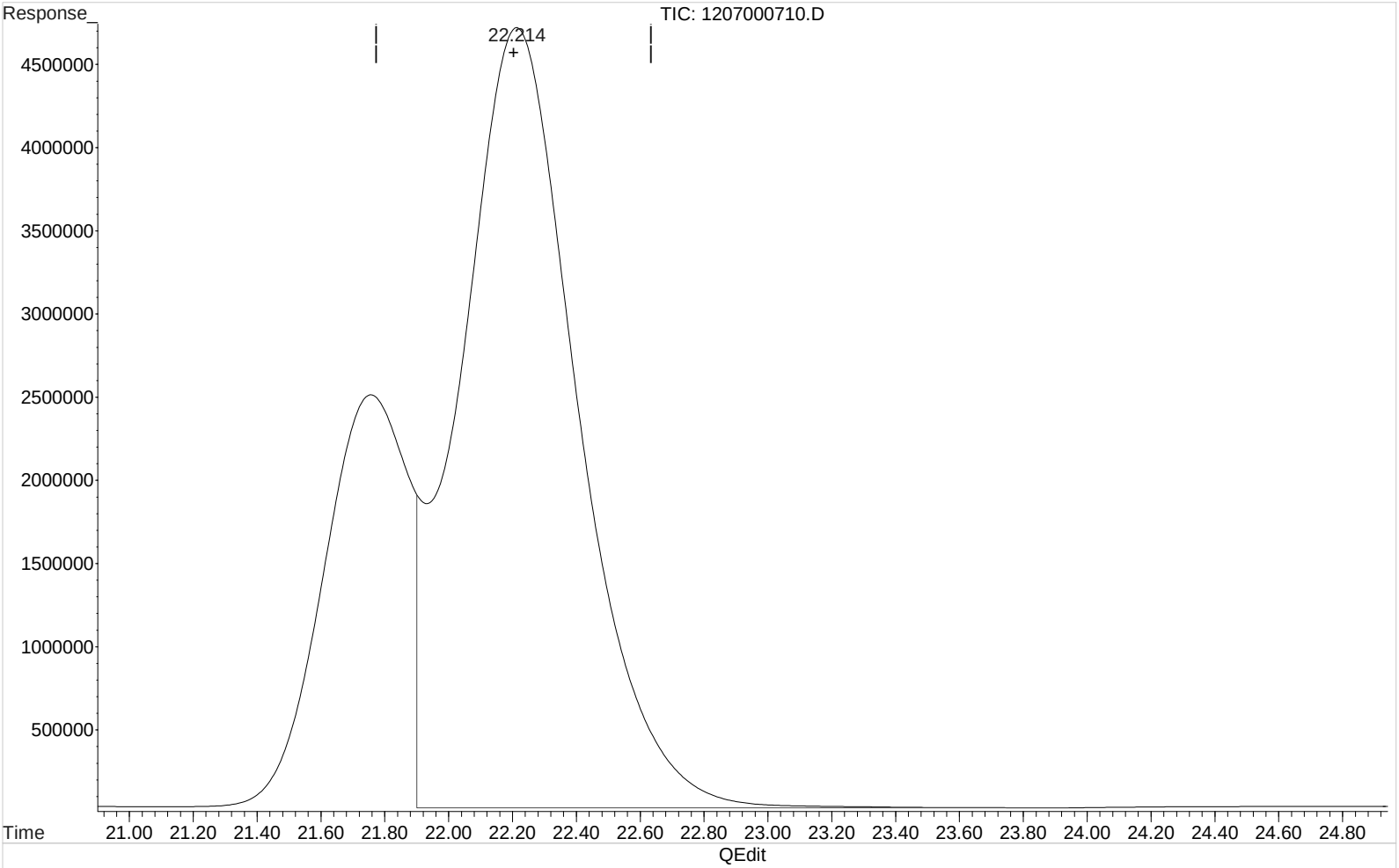
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.214min 2045.708 ug/L

response 120524006

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

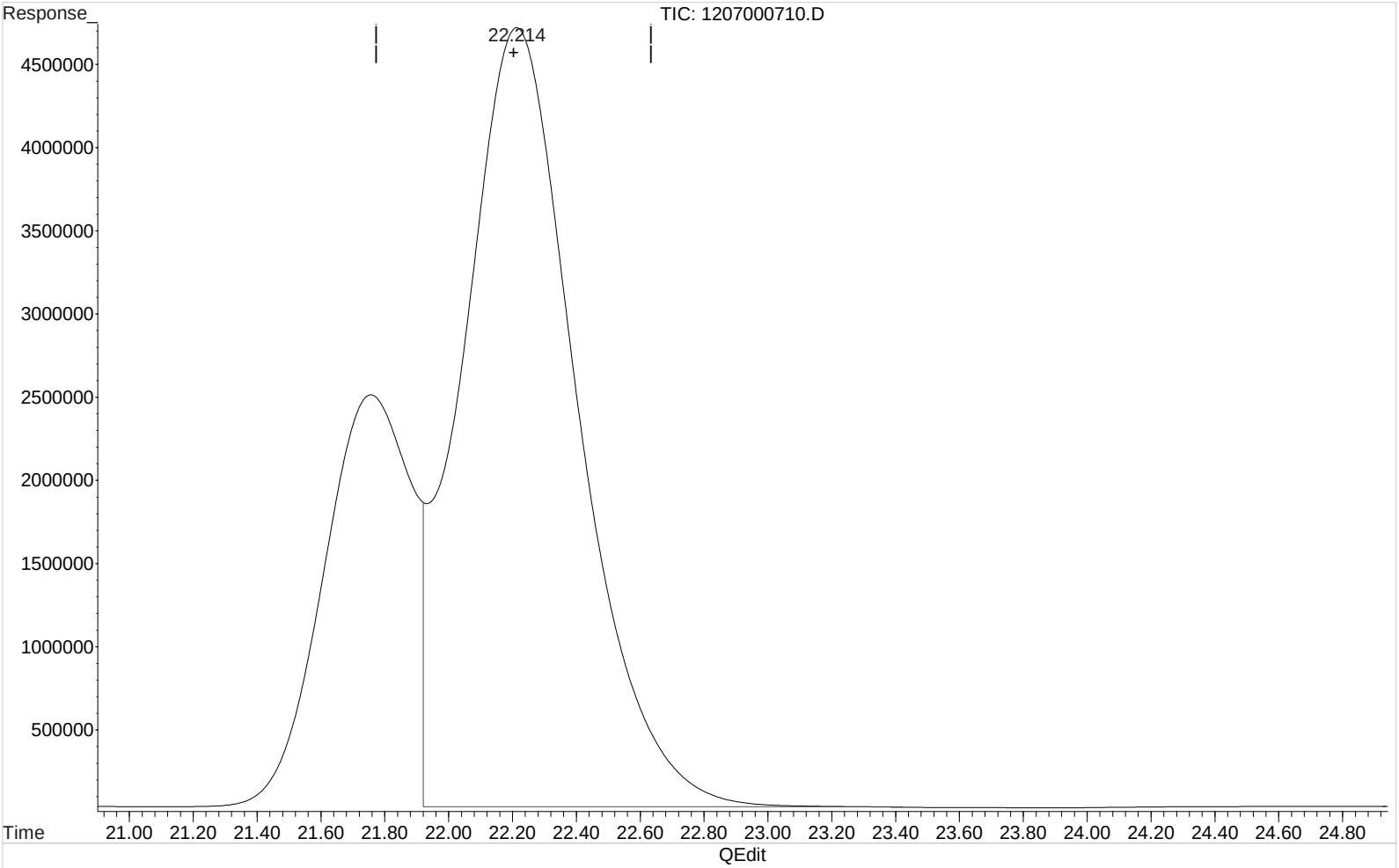
2/08/16

2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(14) 2,4-DNT (T)

22.214min 1996.898 ug/L m

response 117648318

Manual Integration:

After

BLC

12/08/16

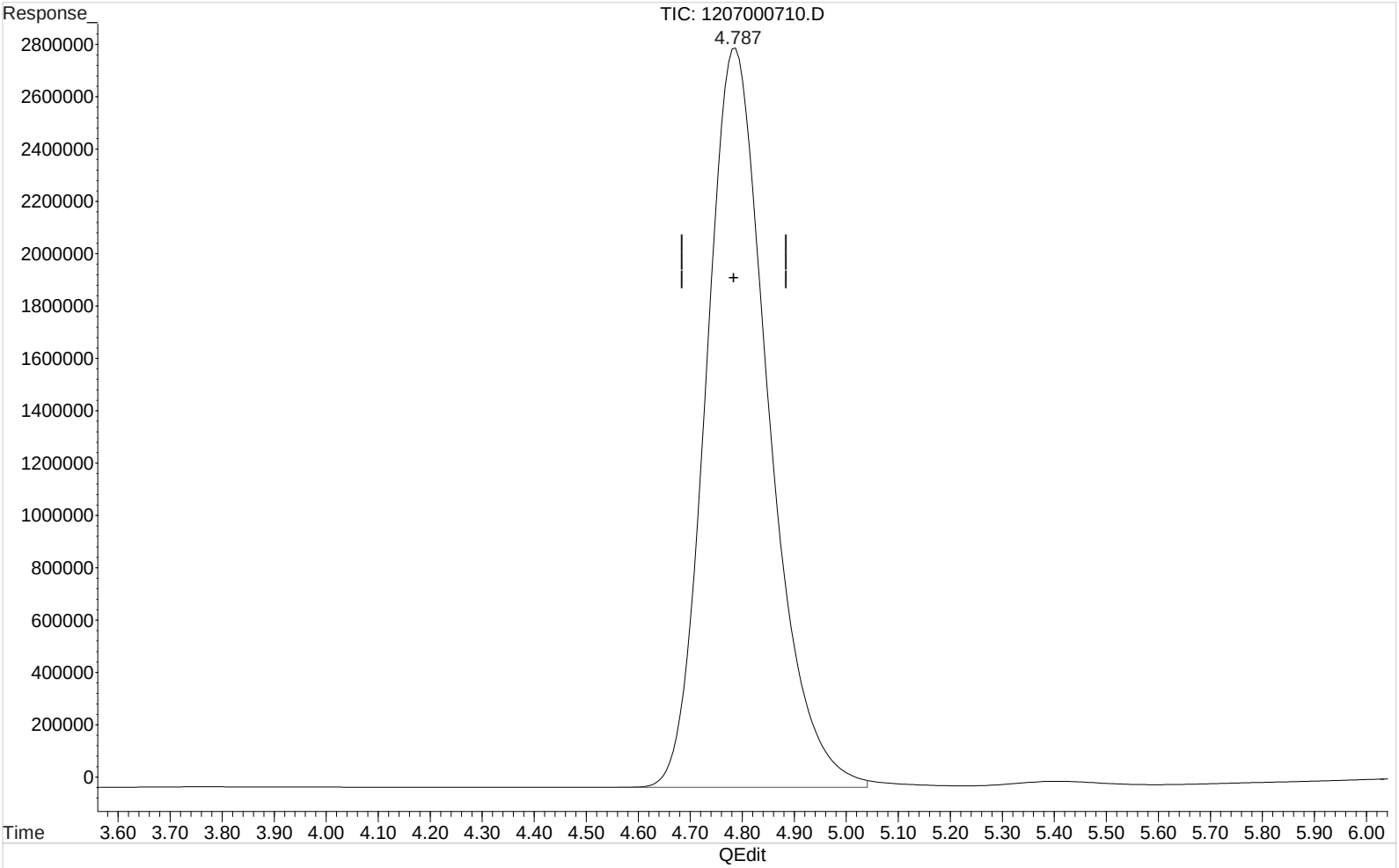
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(2) HMX (T)

4.787min 1973.169 ug/L

response 23640553

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

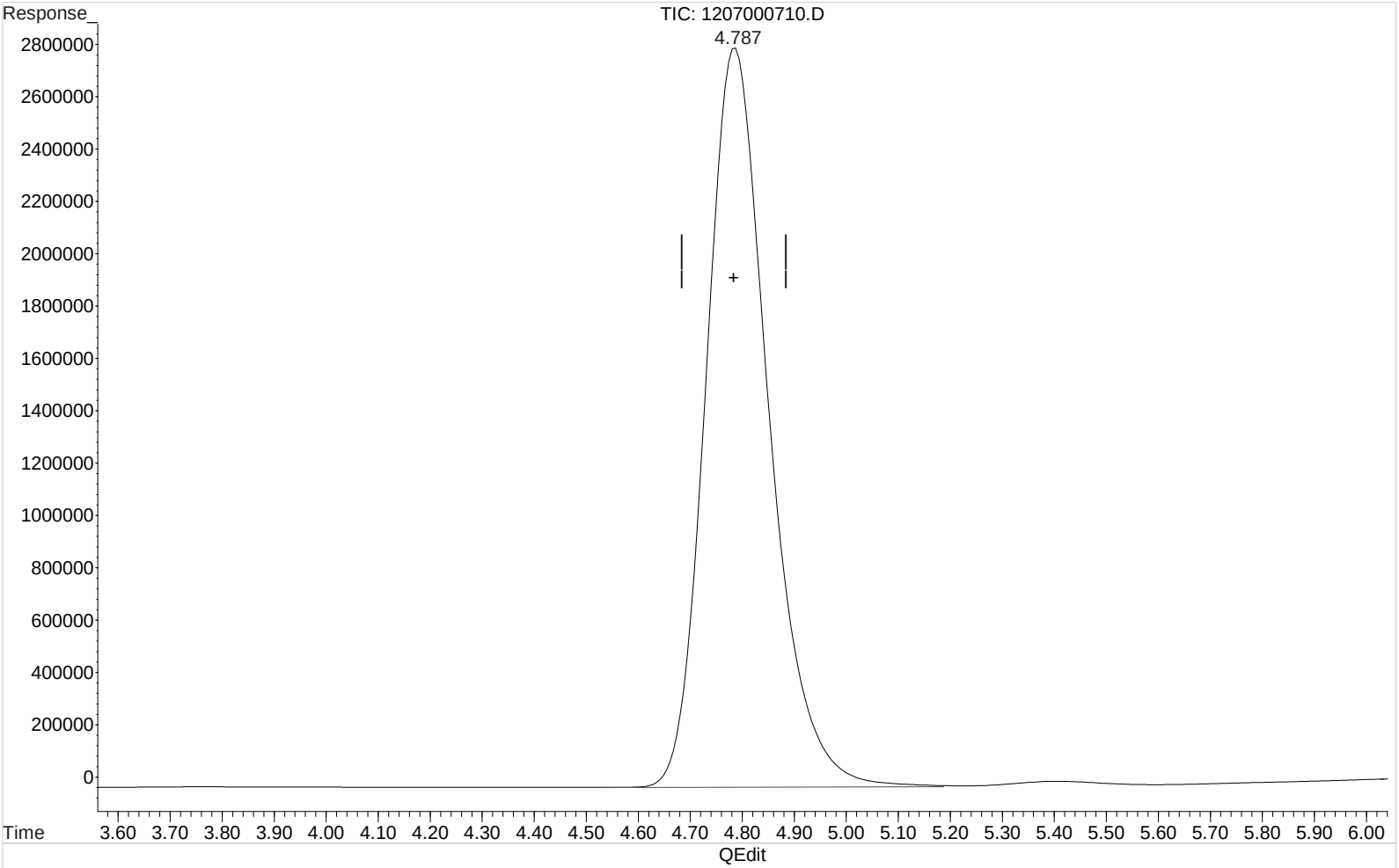
120716_8330B@254.M Thu Dec 08 09:17:59 2016

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(2) HMX (T)

4.787min 1979.985 ug/L m

response 23722211

Manual Integration:

After

BLC

12/08/16

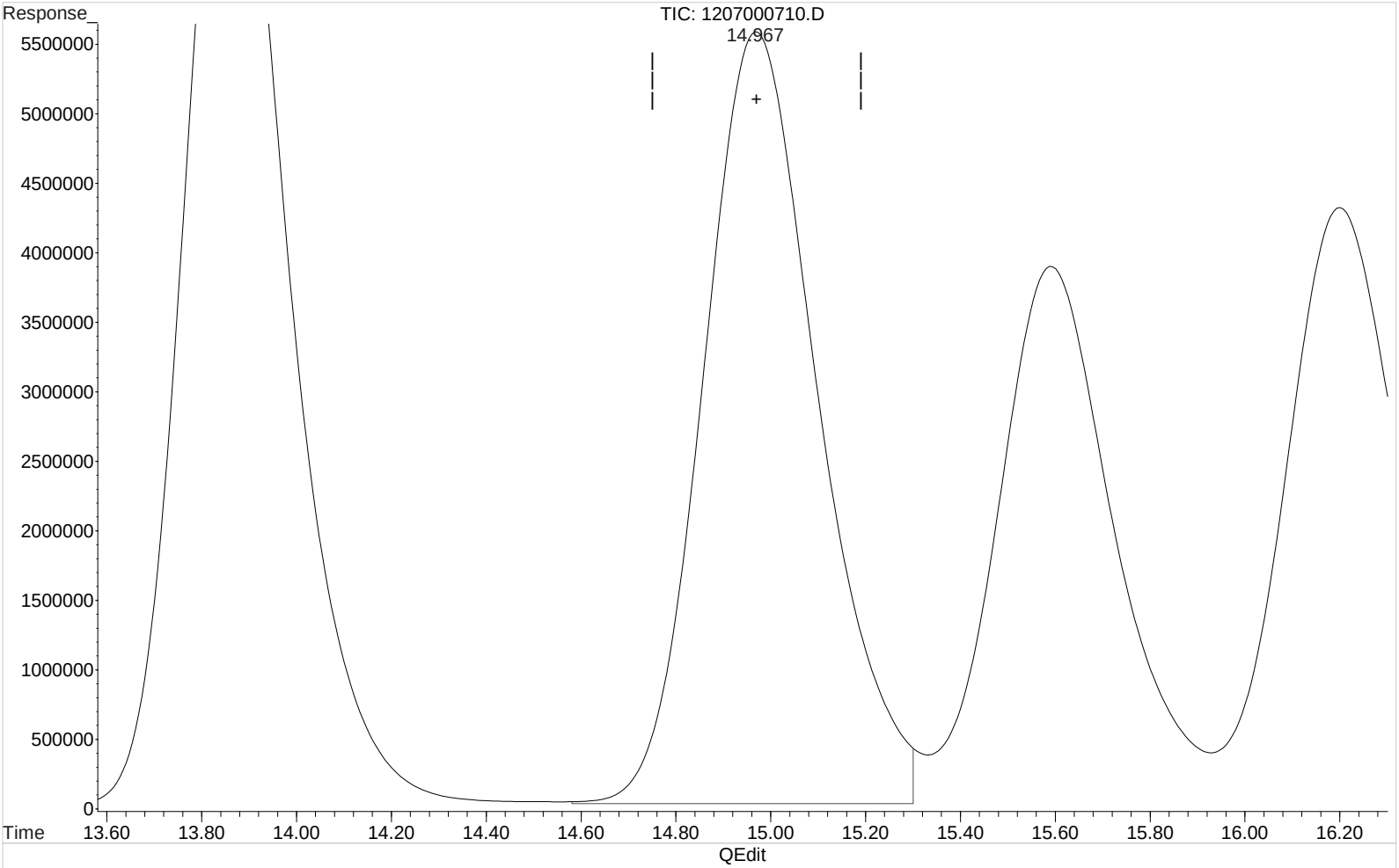
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(7) 3,5-Dinitroaniline (T)

14.967min 1950.402 ug/L

response 93288206

Manual Integration:

Before

12/08/16

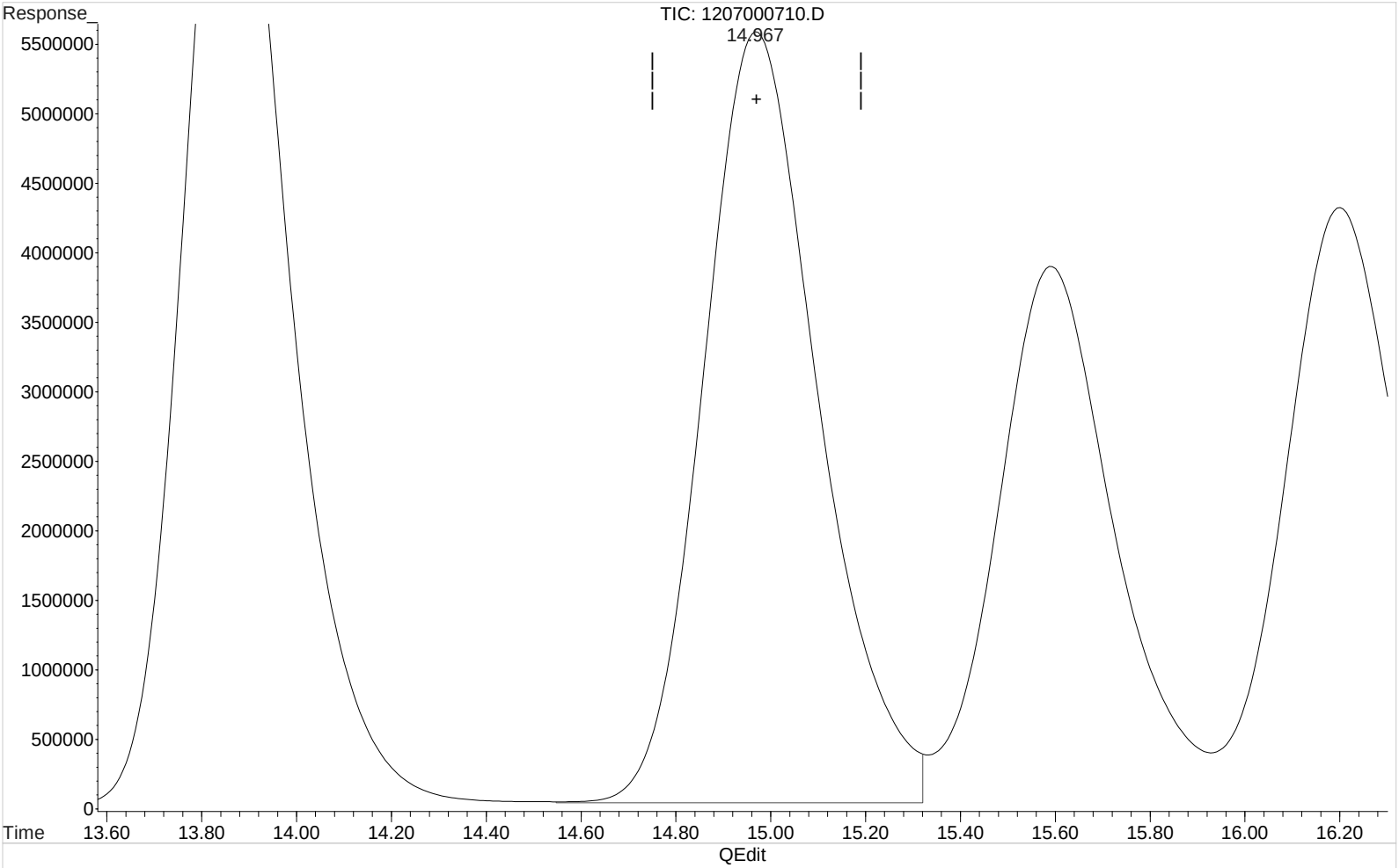
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.967min 1955.089 ug/L m

response 93512376

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000711.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:19:50 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:19:28 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	29.688	109933967	5013.299	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	4.795	61046558	5102.573	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	8.375	100409384	5052.450	ug/L
5)	T	1,3,5-TNB	10.501	226131460	5060.356	ug/L
6)	T	1,3-DNB	13.835	304056740	5034.610	ug/L
7)	T	3,5-Dinitroaniline	14.941	242816511	5092.969	ug/L
8)	T	Tetryl	15.568	169129908	5066.642	ug/L
9)	T	Nitrobenzene	16.168	196342707	5084.940	ug/L
10)	T	2,4,6-TNT	17.421	212586394	5122.448	ug/L
11)	T	4-Amino-2,6-DNT	19.175	150900677	5131.820	ug/L
12)	T	2-Amino-4,6-DNT	20.001	212629441	4982.823	ug/L
13)	T	2,6-DNT	21.735	123855451	5070.219	ug/L
14)	T	2,4-DNT	22.188	303841514	5158.381	ug/L
15)	T	2-NT	25.308	91795667	5117.146	ug/L
16)	T	4-NT	26.235	79961280	5018.107	ug/L
17)	T	3-NT	27.361	102384406	5081.725	ug/L

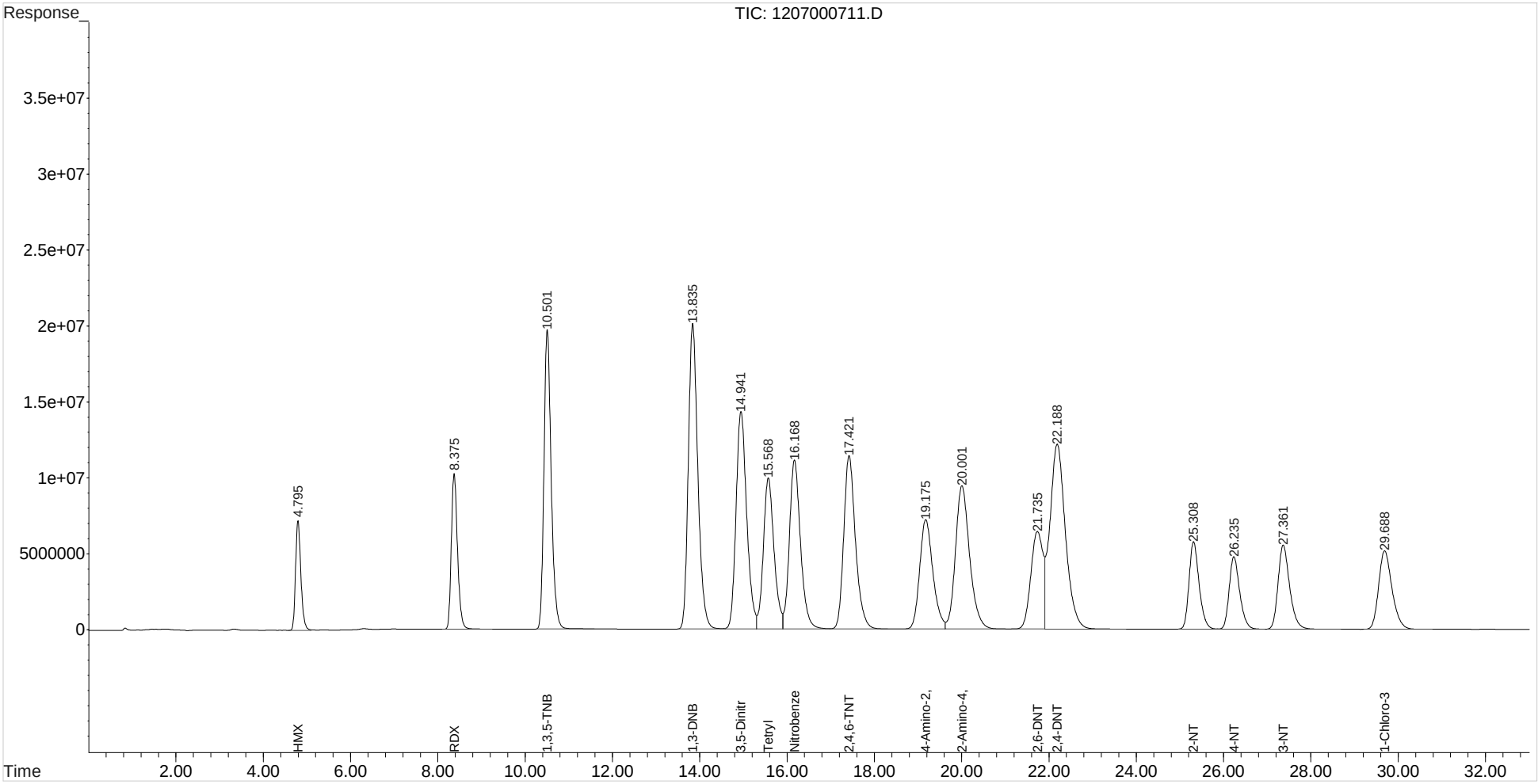
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000711.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:19:50 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:19:28 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000712.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:21:24 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:20:15 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds							
18)	S	1-Chloro-3-Nitrobenzene	29.704	188214338	8580.252	ug/L	
Target Compounds							
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	4.784	116952177	9750.438	ug/L	m
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	8.378	193516345	9724.702	ug/L	
5)	T	1,3,5-TNB	10.518	436043077	9743.045	ug/L	
6)	T	1,3-DNB	13.844	585109637	9679.945	ug/L	
7)	T	3,5-Dinitroaniline	14.958	466801971	9768.261	ug/L	
8)	T	Tetryl	15.584	328561092	9826.366	ug/L	
9)	T	Nitrobenzene	16.191	378180319	9773.468	ug/L	
10)	T	2,4,6-TNT	17.438	410119977	9852.027	ug/L	
11)	T	4-Amino-2,6-DNT	19.191	290587885	9849.834	ug/L	
12)	T	2-Amino-4,6-DNT	20.018	410849938	9632.119	ug/L	
13)	T	2,6-DNT	21.751	239813080	9799.925	ug/L	m
14)	T	2,4-DNT	22.198	592003966	10010.937	ug/L	
15)	T	2-NT	25.318	175973088	9780.967	ug/L	
16)	T	4-NT	26.244	153399761	9622.509	ug/L	
17)	T	3-NT	27.371	196431690	9729.768	ug/L	

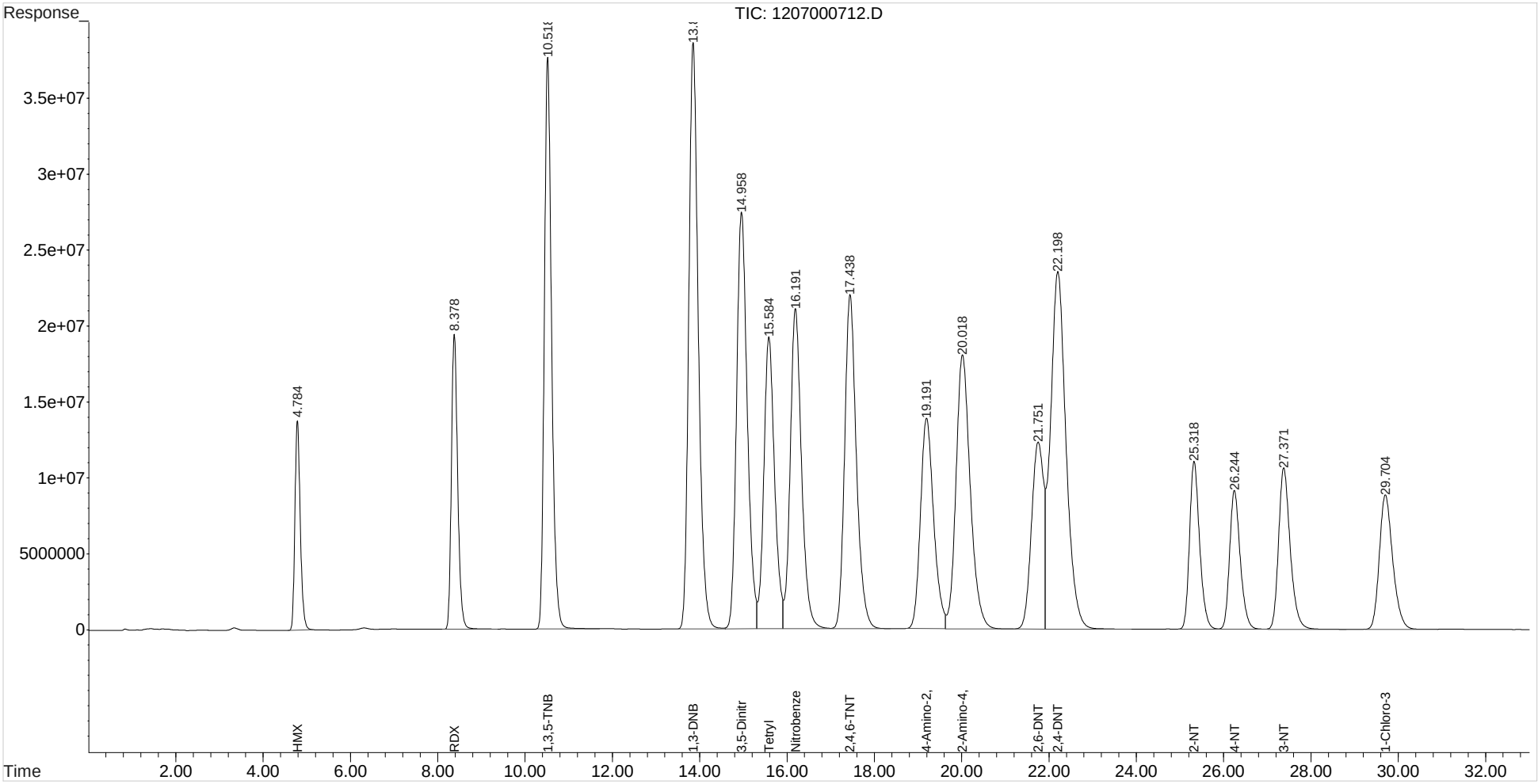
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000712.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:21:24 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:20:15 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

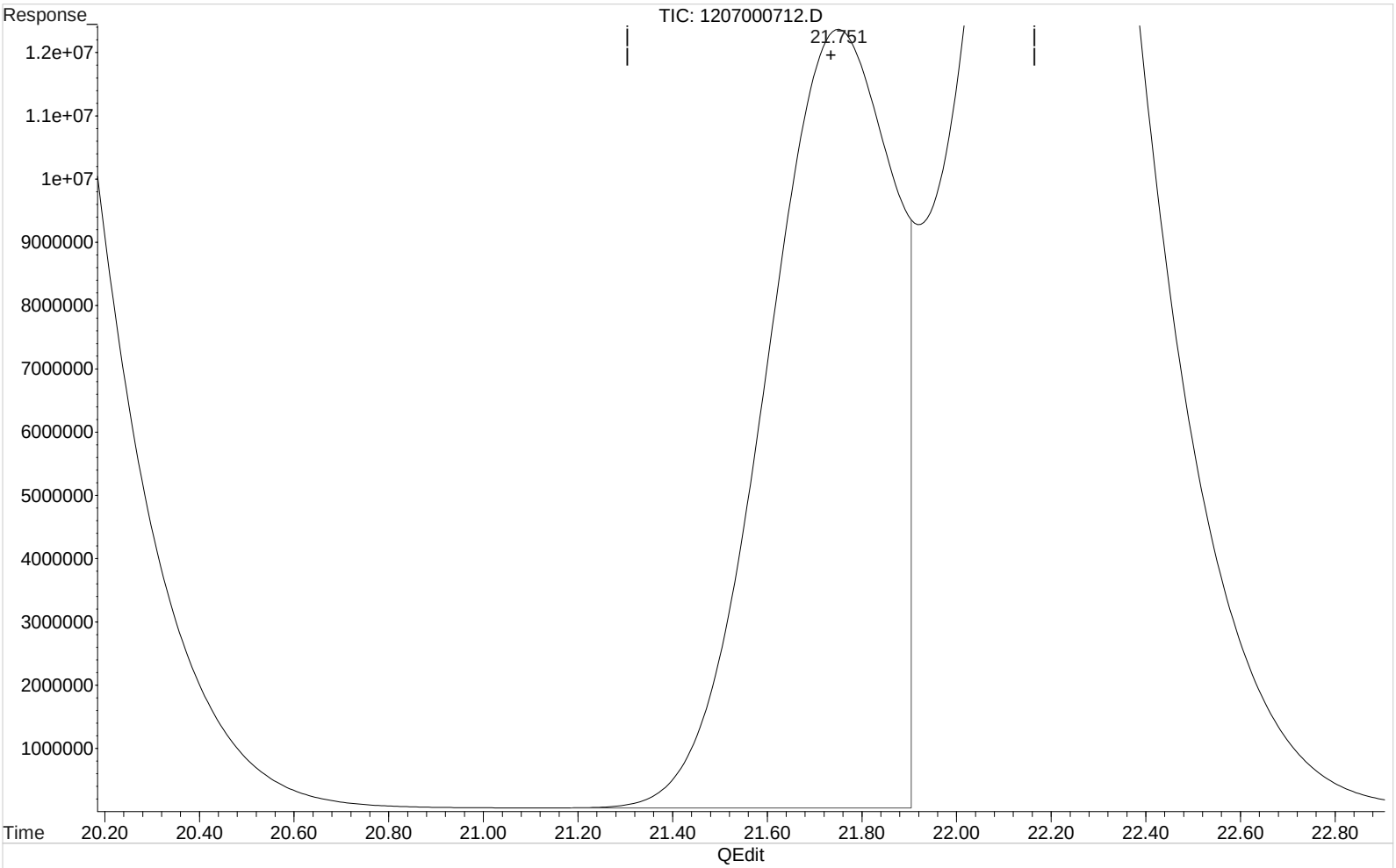


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000712.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:20:40 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:20:15 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.751min 9489.334 ug/L

response 232212639

Manual Integration:

Before

12/08/16

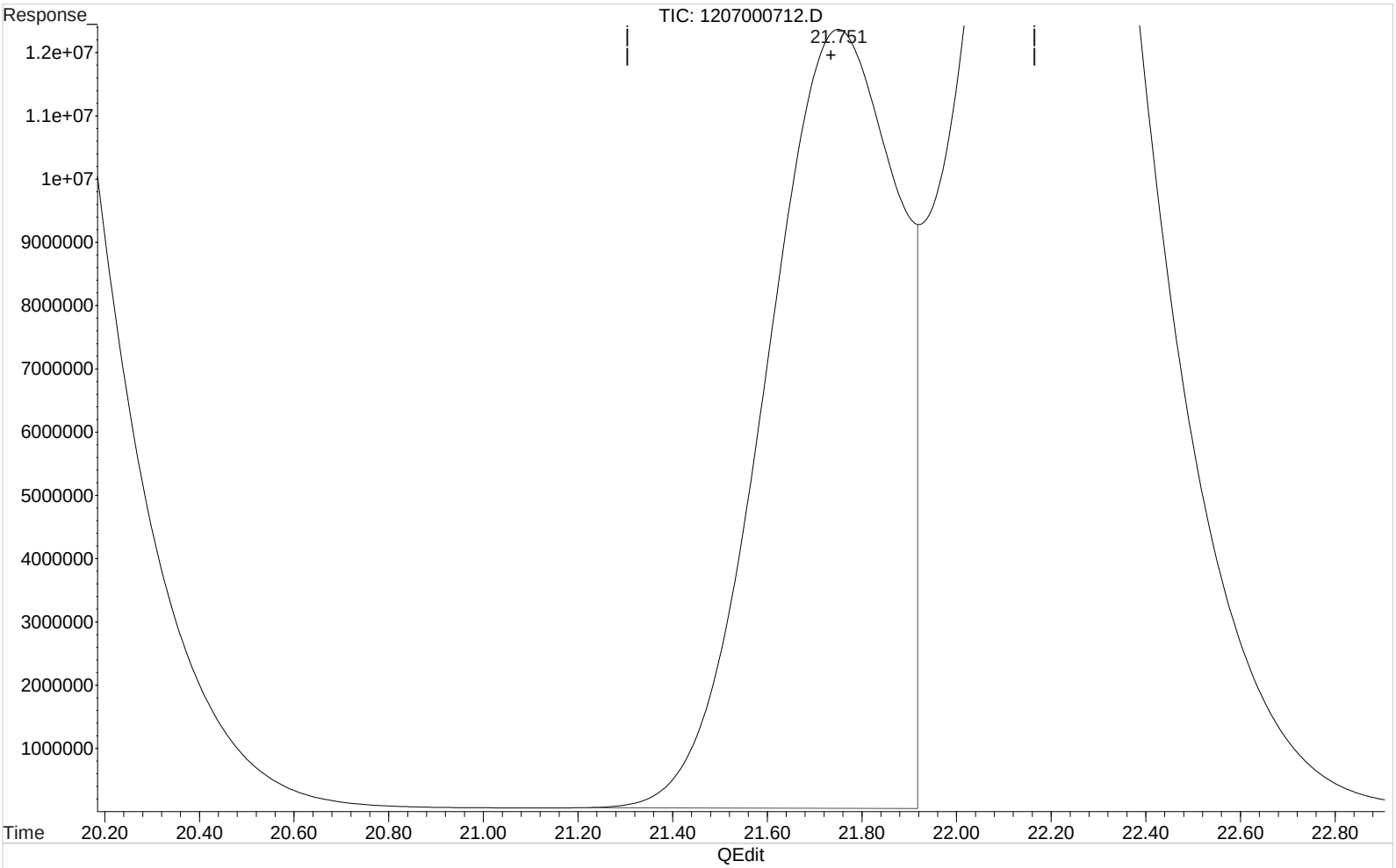
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000712.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:20:40 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:20:15 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.751min 9799.925 ug/L m

response 239813080

Manual Integration:

After

BLC

12/08/16

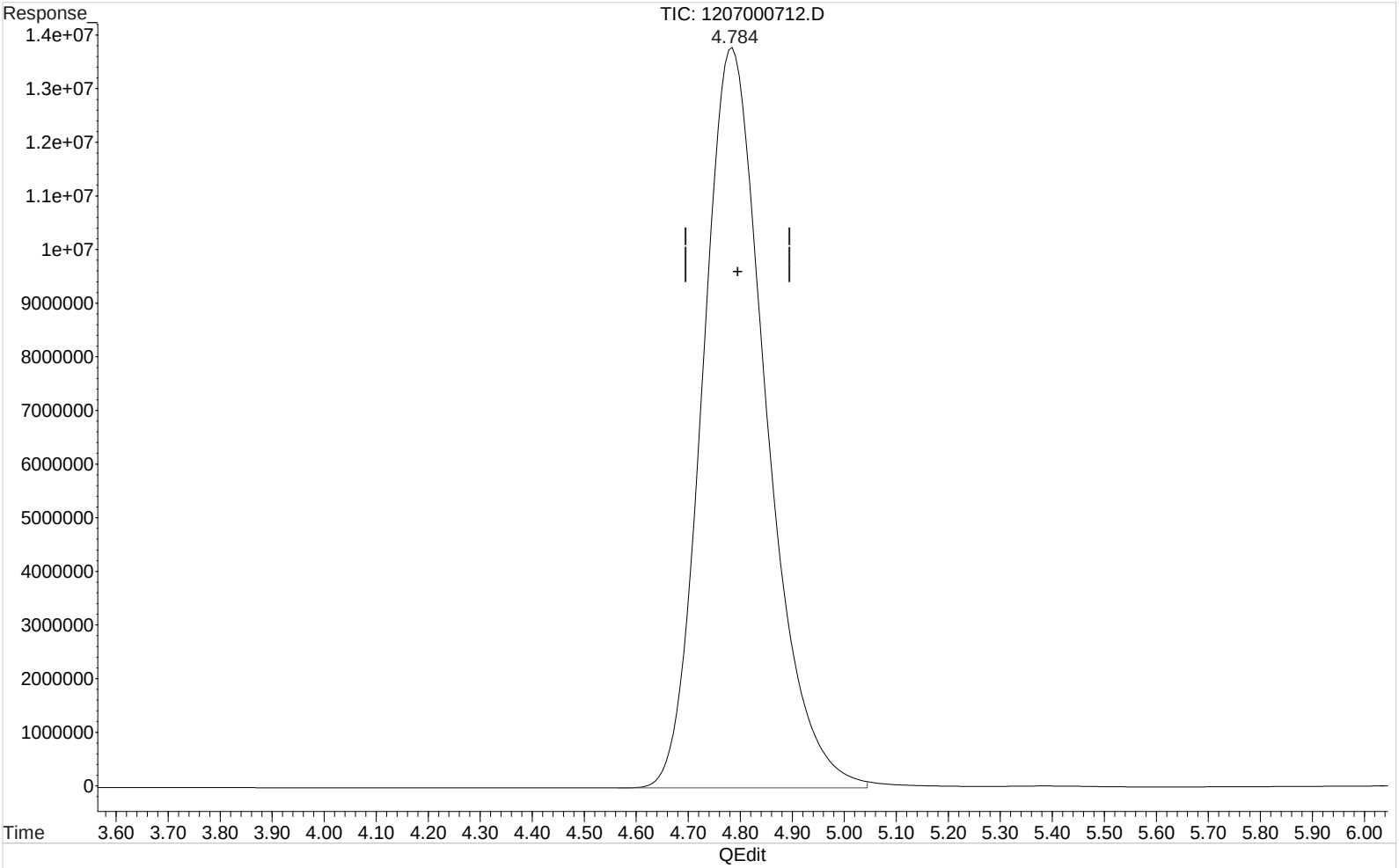
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000712.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:20:40 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:20:15 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(2) HMX (T)

4.784min 9782.211 ug/L

response 117333279

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

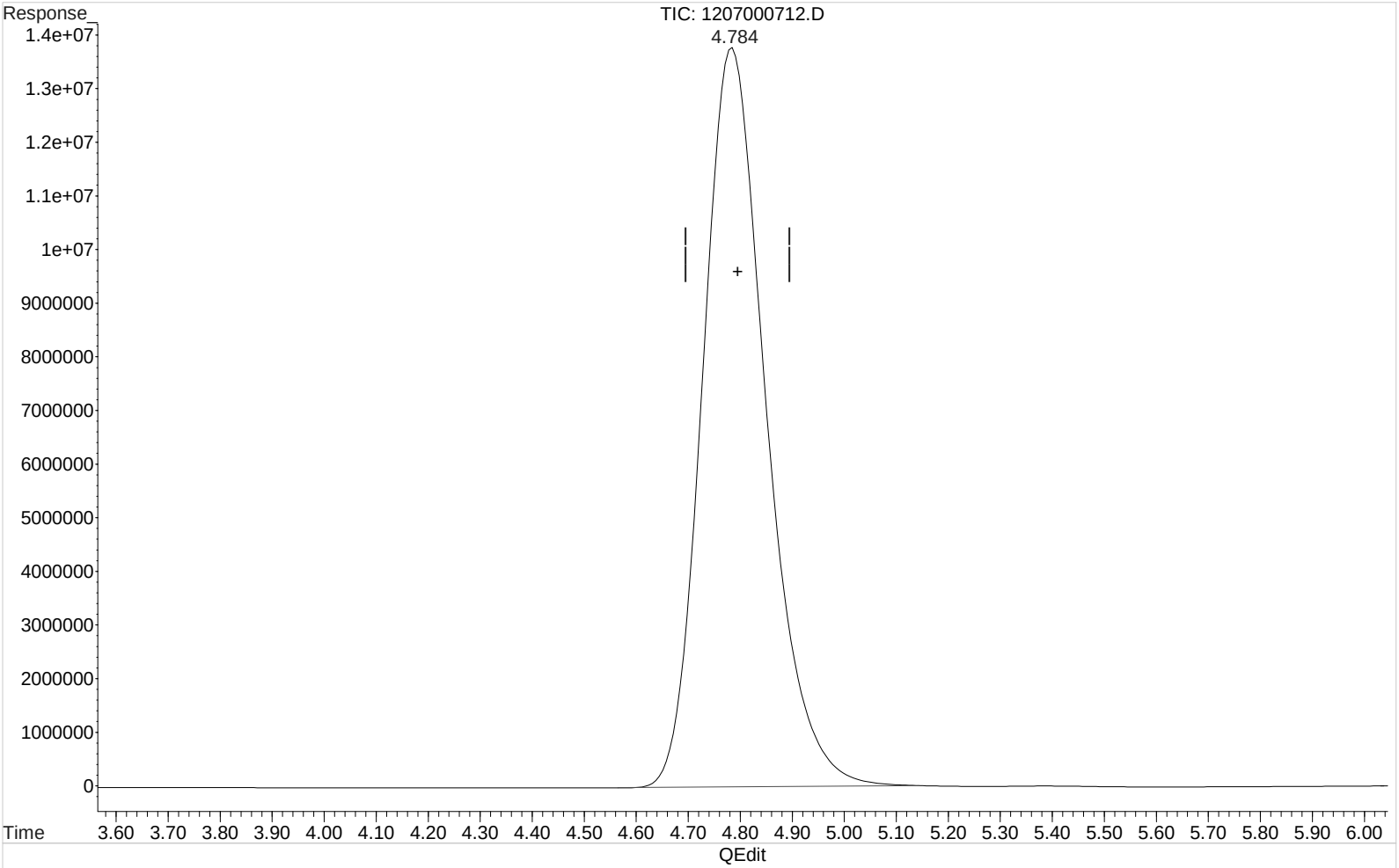
120716_8330B@254.M Thu Dec 08 09:20:39 2016

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000712.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:20:40 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:20:15 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(2) HMX (T)

4.784min 9750.438 ug/L m

response 116952177

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:23:02 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
18) S	1-Chloro-3-Nitrobenzene	29.704	435685183	20180.213	ug/L	
	Target Compounds					
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2) T	HMX	4.777	241966350	20229.108	ug/L	m
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4) T	RDX	8.371	401104321	20218.386	ug/L	
5) T	1,3,5-TNB	10.511	900466088	20177.826	ug/L	
6) T	1,3-DNB	13.844	1214946342	20171.579	ug/L	
7) T	3,5-Dinitroaniline	14.944	968917588	20327.834	ug/L	
8) T	Tetryl	15.578	672938780	20164.667	ug/L	
9) T	Nitrobenzene	16.184	775365787	20088.658	ug/L	
10) T	2,4,6-TNT	17.438	850093674	20454.841	ug/L	
11) T	4-Amino-2,6-DNT	19.184	601309368	20416.185	ug/L	
12) T	2-Amino-4,6-DNT	20.004	851309194	20040.326	ug/L	
13) T	2,6-DNT	21.758	497576104	20378.674	ug/L	m
14) T	2,4-DNT	22.204	1201394842	20313.423	ug/L	m
15) T	2-NT	25.324	362650447	20206.077	ug/L	
16) T	4-NT	26.251	316882161	19961.209	ug/L	
17) T	3-NT	27.384	404148803	20078.821	ug/L	

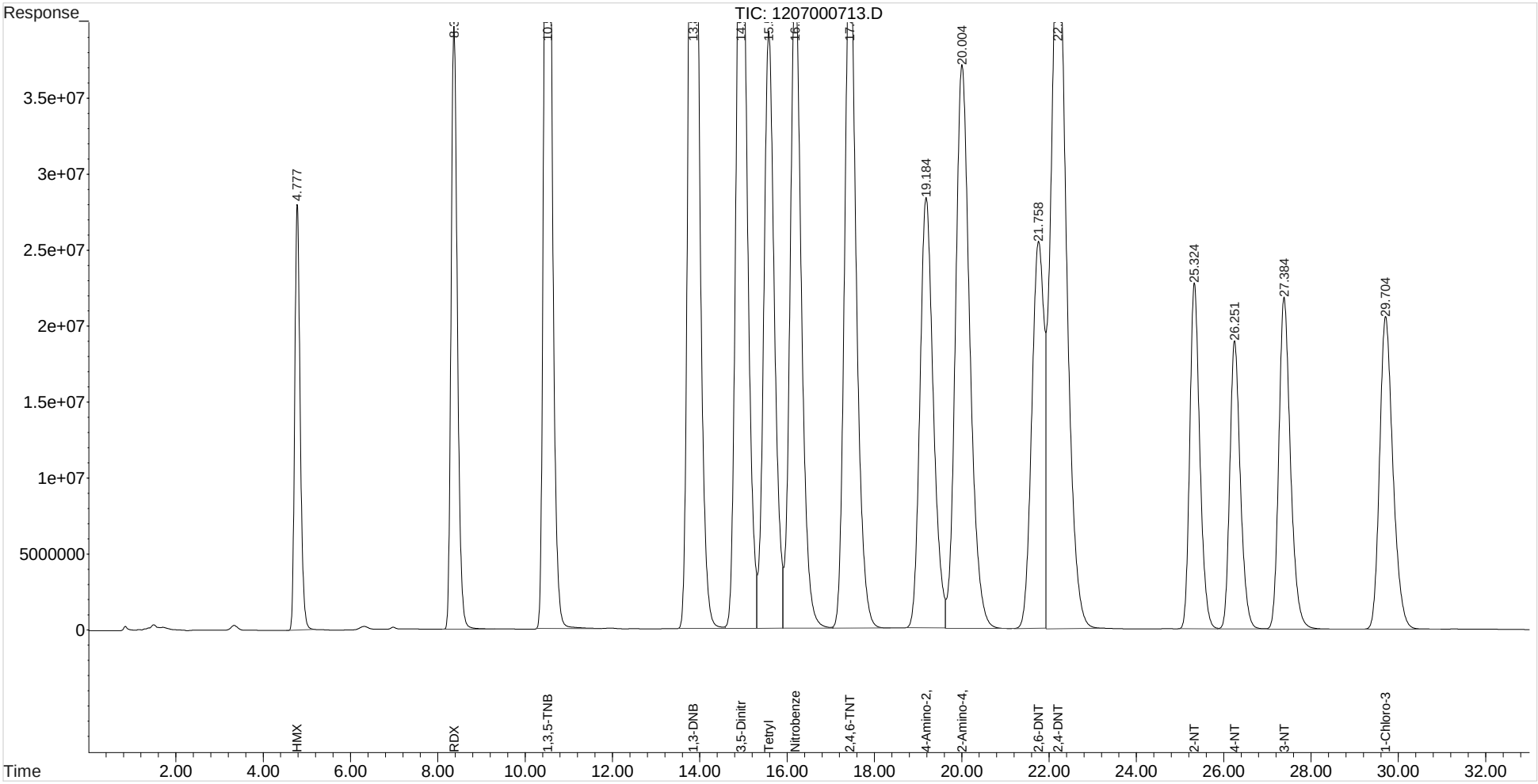
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:23:02 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

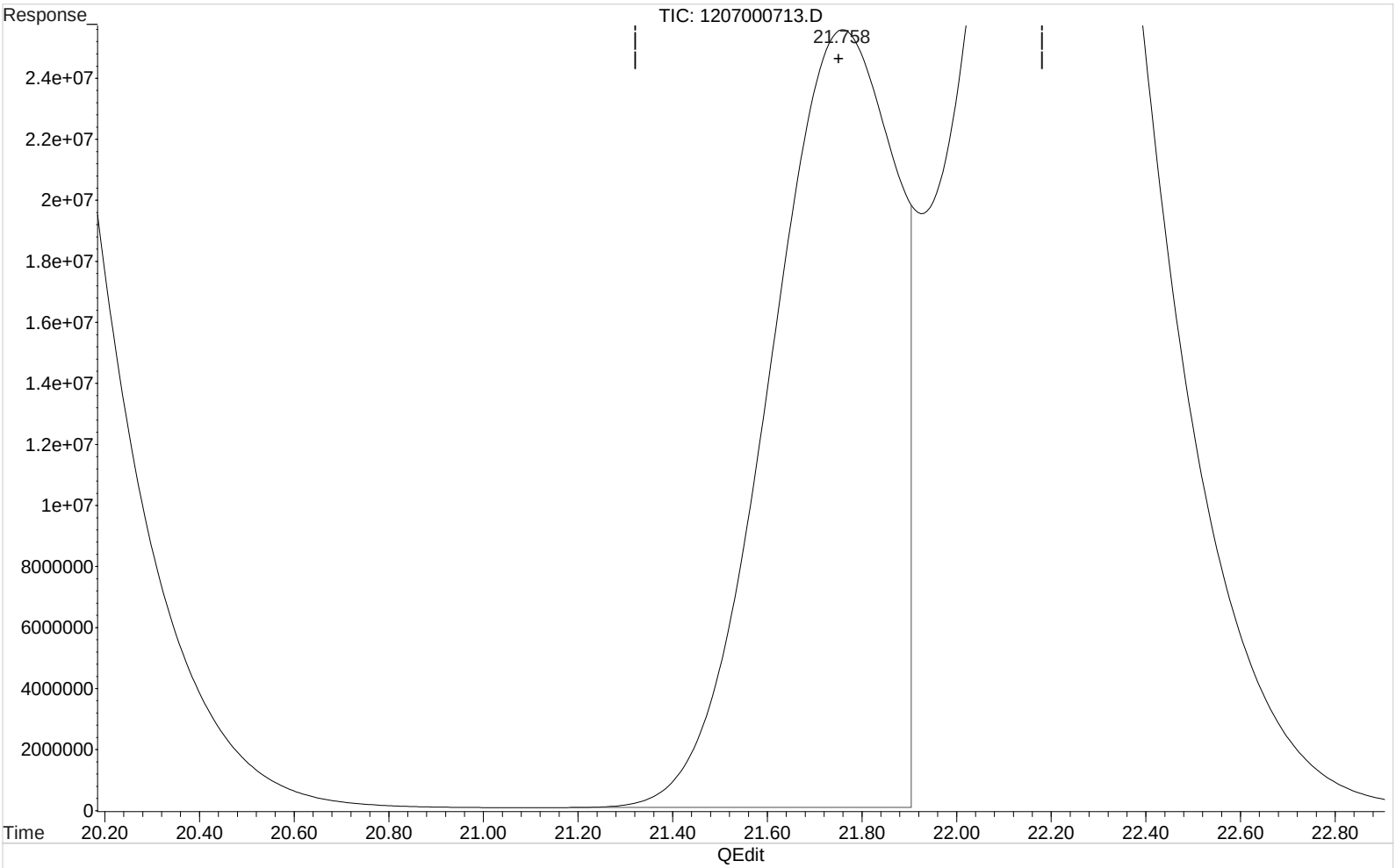


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:22:15 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.758min 19437.420 ug/L

response 474593969

Manual Integration:

Before

12/08/16

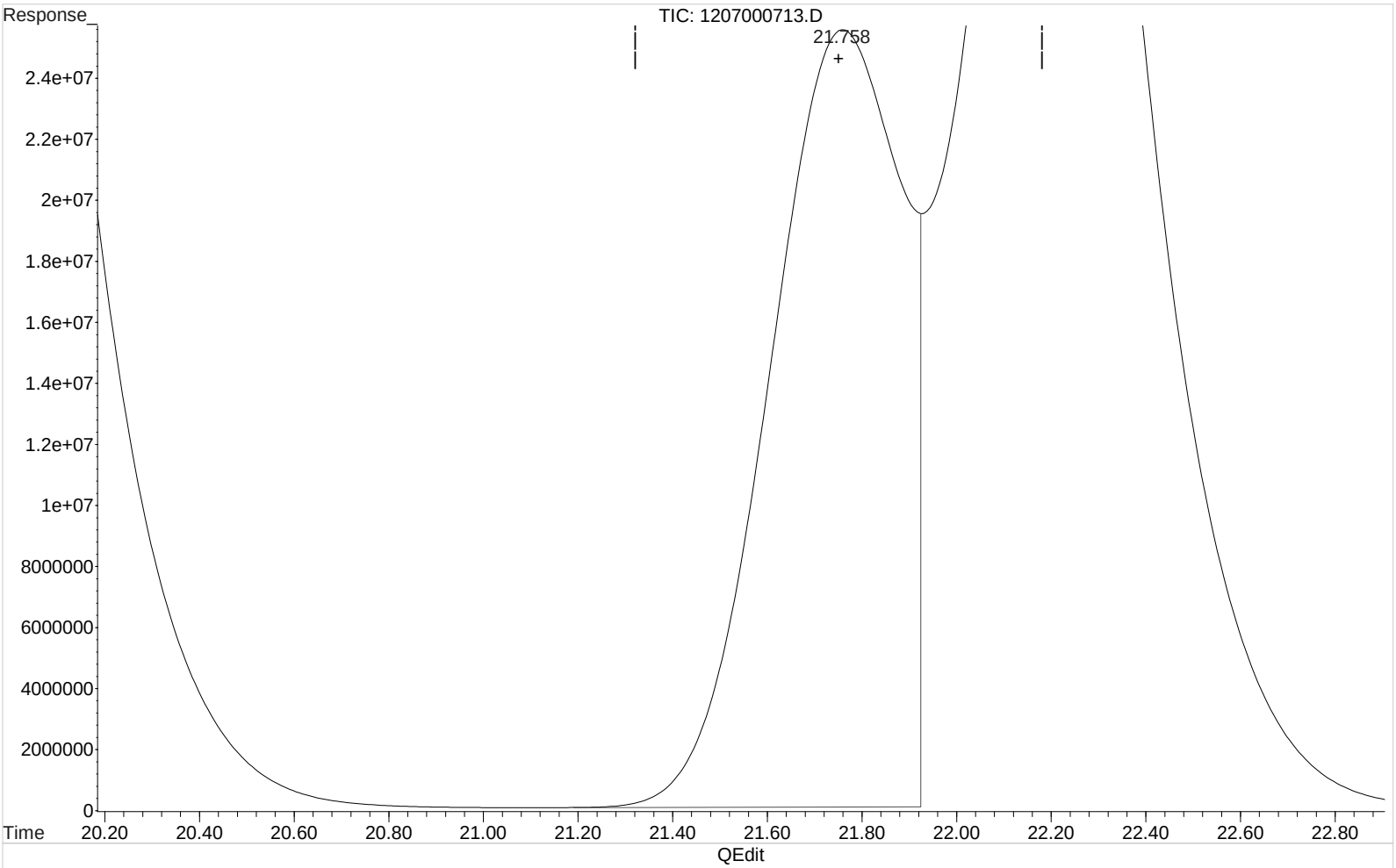
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:22:15 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.758min 20378.674 ug/L m

response 497576104

Manual Integration:

After

BLC

12/08/16

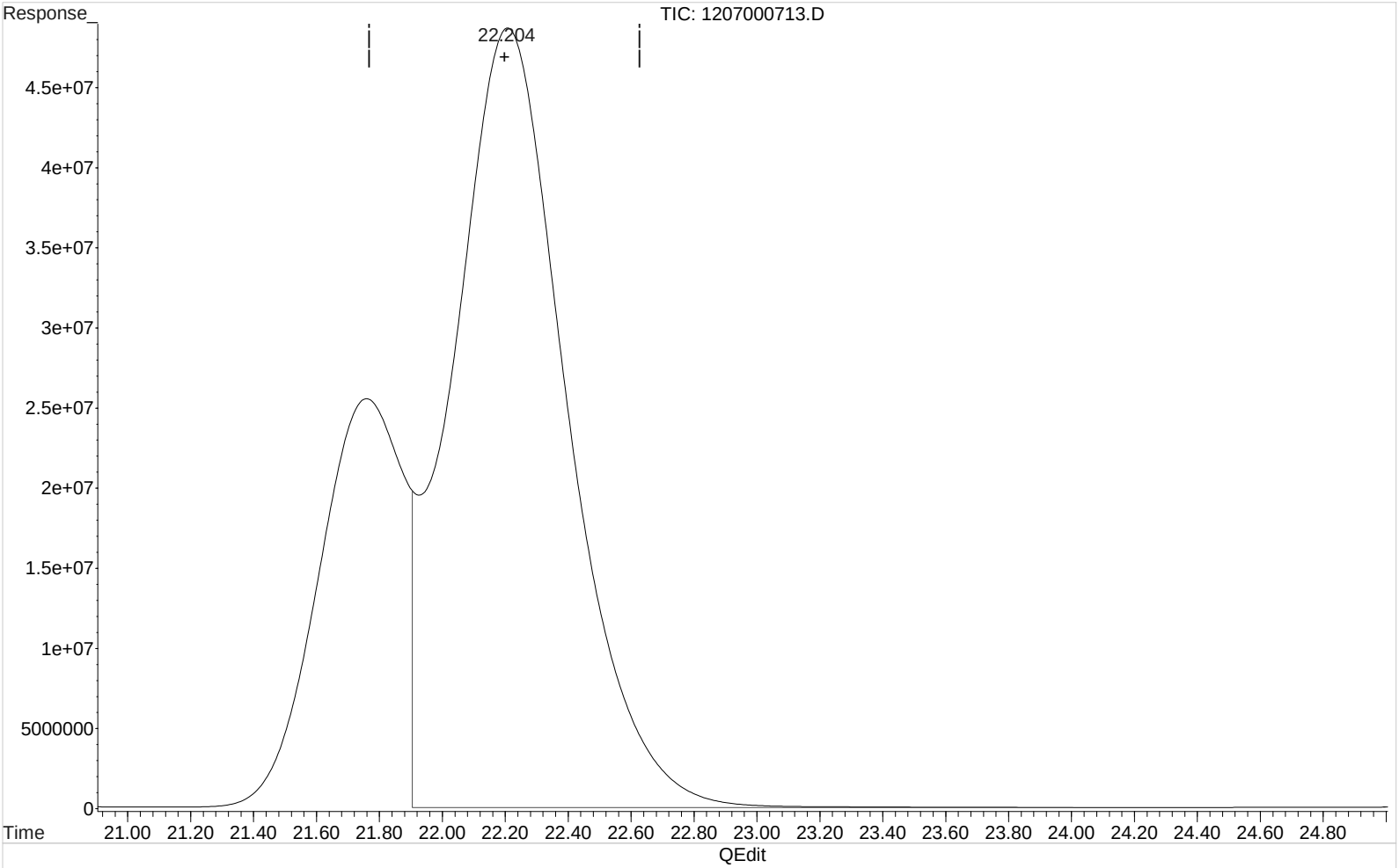
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:22:15 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.204min 20877.470 ug/L

response 1234754222

Manual Integration:

Before

12/08/16

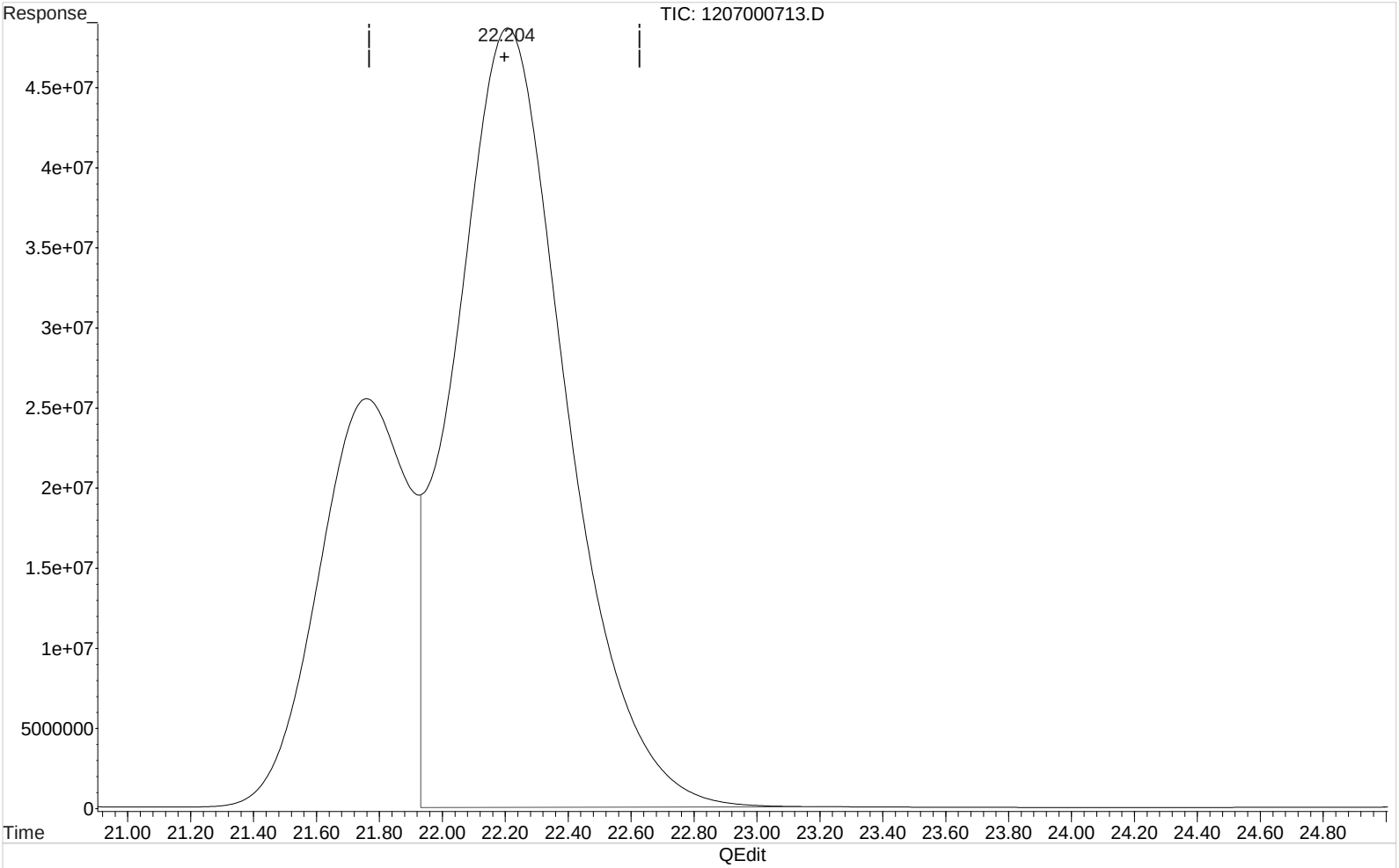
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:22:15 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.204min 20313.423 ug/L m

response 1201394842

Manual Integration:

After

BLC

12/08/16

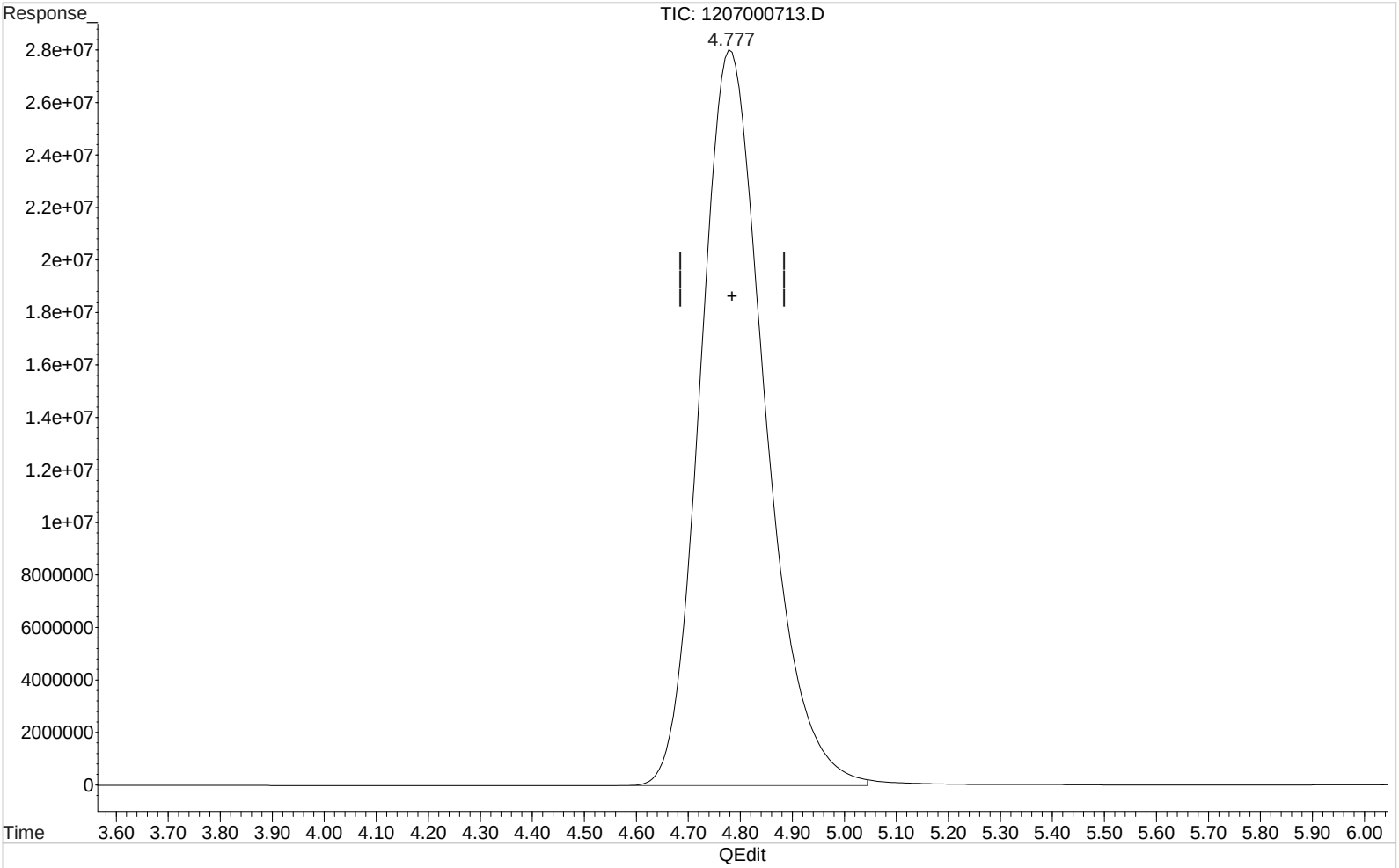
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:22:15 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(2) HMX (T)

4.777min 20269.811 ug/L

response 242453211

Manual Integration:

Before

12/08/16

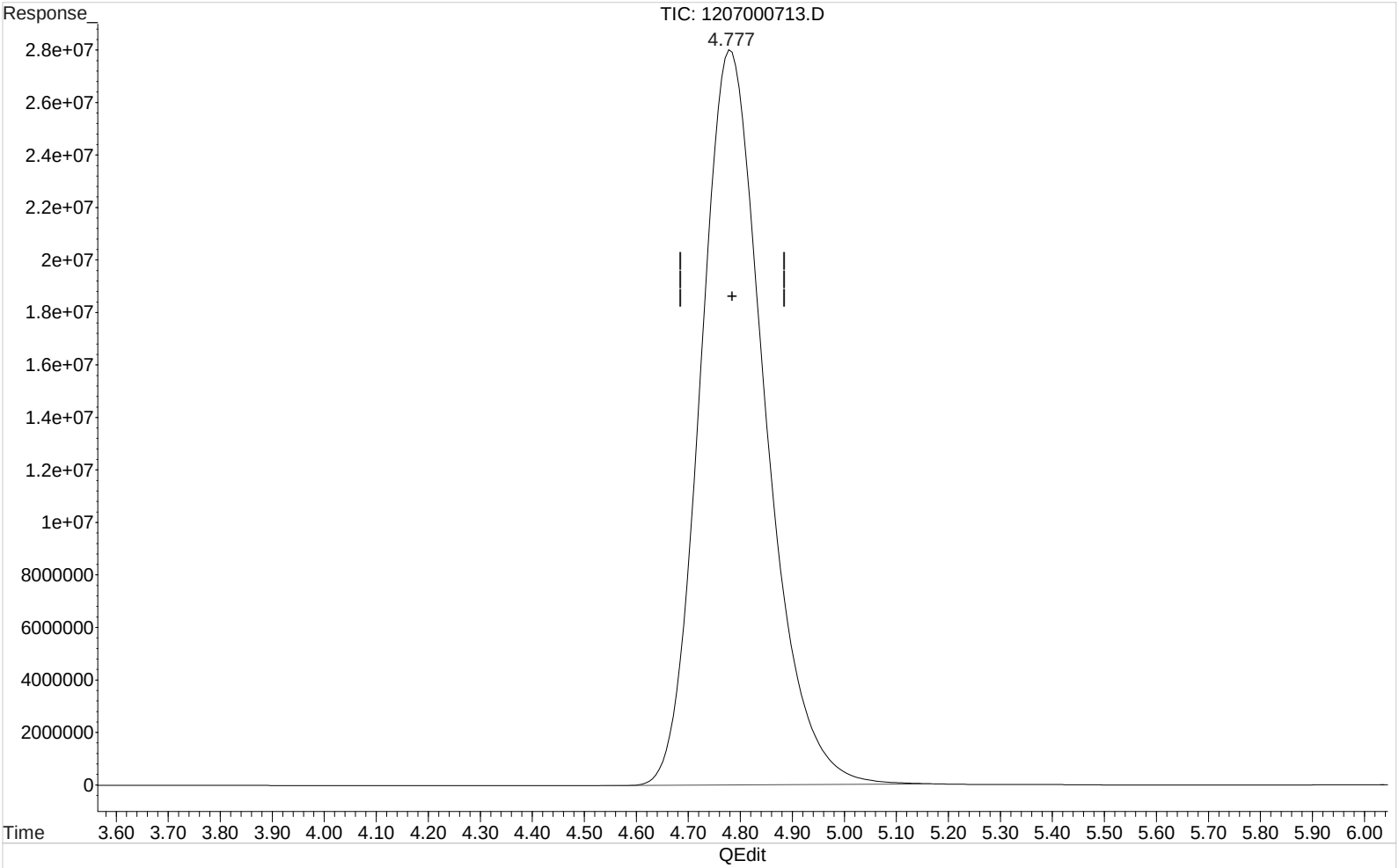
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:22:15 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(2) HMX (T)

4.777min 20229.108 ug/L m

response 241966350

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000715.D Vial: 13
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV ~~1000 PPB~~ 10,000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 13:49:43 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 13:47:31 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	29.691	178340313	8252.990	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	4.784	106984607	8933.998	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	8.371	176025842	8863.222	ug/L
5)	T	1,3,5-TNB	10.511	399499816	8944.120	ug/L
6)	T	1,3-DNB	13.851	535328425	8880.362	ug/L
7)	T	3,5-Dinitroaniline	14.958	428966341	8984.961	ug/L
8)	T	Tetryl	15.584	299167845	8957.215	ug/L
9)	T	Nitrobenzene	16.191	348449239	9023.839	ug/L
10)	T	2,4,6-TNT	17.438	377261904	9057.028	ug/L
11)	T	4-Amino-2,6-DNT	19.198	267038567	9047.901	ug/L
12)	T	2-Amino-4,6-DNT	20.017	374887145	8933.962	ug/L
13)	T	2,6-DNT	21.731	223573705	9139.357	ug/L
14)	T	2,4-DNT	22.184	532654960	8992.144	ug/L
15)	T	2-NT	25.311	161287053	8977.306	ug/L
16)	T	4-NT	26.231	141966427	8944.559	ug/L
17)	T	3-NT	27.364	176761245	8778.349	ug/L

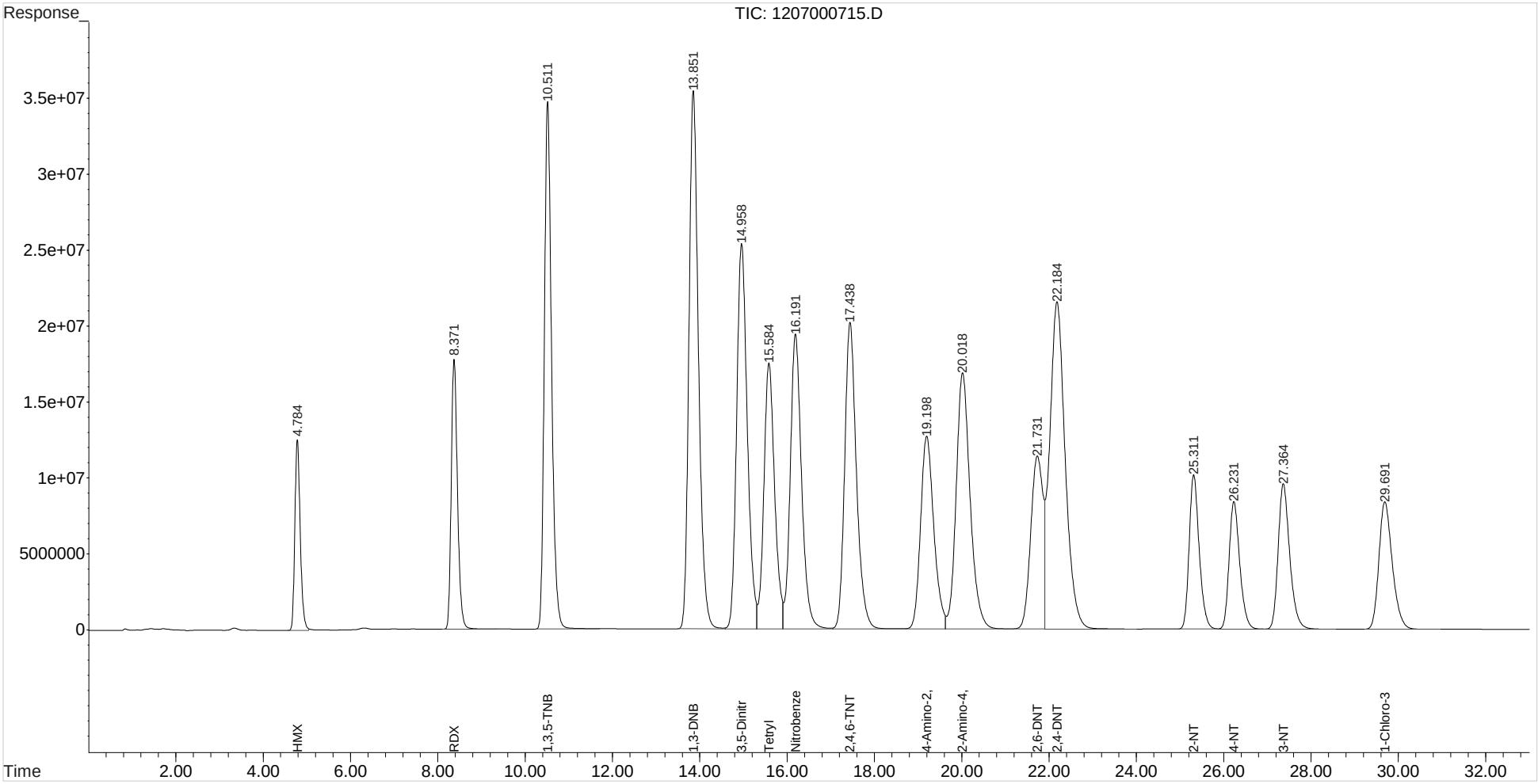
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000715.D Vial: 13
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 13:49:43 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 13:47:31 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



Preparation Information

Group ID:	KWG1701417	**Prep Method:**	METHOD	**Prep Date:**	02/21/17 17:05
Department:	Organic LC				

Lab Code	Client ID	Product	Matrix	Amt. Ext.	Final Vol.	Solids
K1701351-001	FD-020717	8330B Fire Range Nitr	SOIL	10.004g	8ml	
K1701351-002	FD-020817	8330B Fire Range Nitr	SOIL	10.015g	8ml	
K1701351-003	FTBL-SB-02-0-0.5-020817	8330B Fire Range Nitr	SOIL	10.078g	8ml	
K1701351-004	FTBL-SB-02-0.5-2-020817	8330B Fire Range Nitr	SOIL	10.291g	8ml	
K1701351-005	FTBL-SB-02-4-5.5-020817	8330B Fire Range Nitr	SOIL	10.120g	8ml	
K1701351-006	FTBL-SB-01D-0-0.5-020717	8330B Fire Range Nitr	SOIL	10.320g	8ml	
K1701351-007	FTBL-SB-01D-0.5-2-020717	8330B Fire Range Nitr	SOIL	10.212g	8ml	
K1701351-008	FTBL-SB-01D-4-6-020717	8330B Fire Range Nitr	SOIL	10.220g	8ml	
K1701351-009	FTBL-SB-01-0-0.5-020717	8330B Fire Range Nitr	SOIL	10.159g	8ml	
K1701351-010	FTBL-SB-01-0.5-2-020717	8330B Fire Range Nitr	SOIL	10.017g	8ml	
K1701351-011	FTBL-SB-01-4-6-020717	8330B Fire Range Nitr	SOIL	10.189g	8ml	
K1701351-012	FTBL-SB-03-0-0.5-020817	8330B Fire Range Nitr	SOIL	10.090g	8ml	
K1701351-013	FTBL-SB-03-6-8-020817	8330B Fire Range Nitr	SOIL	10.026g	8ml	
K1701351-015	FTBL-SB03-28-30-020917	8330B Fire Range Nitr	SOIL	10.048g	8ml	
KWG1701417-1	Duplicate	8330B Fire Range Nitr	SOIL	10.004g	8ml	
KWG1701417-2	Triplicate	8330B Fire Range Nitr	SOIL	10.047g	8ml	
KWG1701417-3	Matrix Spike	8330B Fire Range Nitr	SOIL	10.007g	8ml	
KWG1701417-4	Duplicate Matrix Spike	8330B Fire Range Nitr	SOIL	10.017g	8ml	
KWG1701417-5	Standard Reference Material	8330B Fire Range Nitr	SOIL	10.036g	8ml	
KWG1701417-6	Storage Blank	8330B Fire Range Nitr	SOIL	10.317g	8ml	
KWG1701417-7	Storage Blank	8330B Fire Range Nitr	SOIL	10.084g	8ml	
KWG1701417-8	Lab Control Sample	8330B Fire Range Nitr	SOIL	10.000g	8ml	
KWG1701417-9	Method Blank	8330B Fire Range Nitr	SOIL	10.000g	8ml	

Lab Code	Parent Lab Code	Comments
KWG1701417-1	K1701351-001	KQ1701866-01
KWG1701417-2	K1701351-001	KQ1701866-02
KWG1701417-3	K1701351-001	KQ1701866-03
KWG1701417-4	K1701351-001	KQ1701866-04
KWG1701417-5		KQ1701866-05
KWG1701417-6		KQ1701866-06
KWG1701417-7		KQ1701866-07

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
K1701351-001	1587763	16-OLC-02-14C	40uL			(b) (6)
K1701351-002	1587764	16-OLC-02-14C	40uL			

Comments:

(b) (6)

Started By: (b) (6) Assisted By:

Completed By: (b) (6) Assisted By:

Reviewed By: Date: 3/28/17 Storage:

Training: Yes / No; Yes / No

Chain of Custody

Relinquished By: (b) (6) Date: 3-1-2017

Received By: Date: 3-1-2017

Extracts Examined: Yes / No

Group ID:	KWG1701417	**Prep Method:**	METHOD	**Prep Date:**	02/21/17 17:05
Department:	Organic LC				

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
K1701351-003	1587765	16-OLC-02-14C	40uL			(b) (6)
K1701351-004	1587766	16-OLC-02-14C	40uL			
K1701351-005	1587767	16-OLC-02-14C	40uL			
K1701351-006	1587768	16-OLC-02-14C	40uL			
K1701351-007	1587769	16-OLC-02-14C	40uL			
K1701351-008	1587770	16-OLC-02-14C	40uL			
K1701351-009	1587771	16-OLC-02-14C	40uL			
K1701351-010	1587772	16-OLC-02-14C	40uL			
K1701351-011	1587773	16-OLC-02-14C	40uL			
K1701351-012	1587774	16-OLC-02-14C	40uL			
K1701351-013	1587775	16-OLC-02-14C	40uL			
K1701351-015	1587776	16-OLC-02-14C	40uL			
KWG1701417-1	1587777	16-OLC-02-14C	40uL			
KWG1701417-2	1587778	16-OLC-02-14C	40uL			
KWG1701417-3	1587779	16-OLC-02-14C	40uL	14-OLC-02-43M	20uL	
KWG1701417-4	1587780	16-OLC-02-14C	40uL	14-OLC-02-43M	20uL	
KWG1701417-5	1587781	16-OLC-02-14C	40uL			
KWG1701417-6	1587782	16-OLC-02-14C	40uL			
KWG1701417-7	1587783	16-OLC-02-14C	40uL			
KWG1701417-8	1587784	16-OLC-02-14C	40uL	14-OLC-02-43M	20uL	
KWG1701417-9	1587785	16-OLC-02-14C	40uL			

Comments:

Started By: (b) (6) Assisted By:

Completed By: Assisted By:

Reviewed By: (b) (6) Date: 3/6/17 Storage:

Training: Yes / No; Yes / No

Chain of Custody

Relinquished By: (b) (6) Date: 3.1.2017

Received By: Date: 3.1.2017

Extracts Examined: Yes / No

Preparation Information

Group ID:	KWG1701417	**Prep Method:**	**Prep Date:**
Department:	Organic LC	EPA 3535A	02/21/17

#	Lab Code	Client ID	B#	√	Product	Matrix	Amt. Ext. g	pH	Int. Vol.	Final Vol. mL	Surr. Added µL	Spike Added µL
1	K1701351-001	FD-020717			8330B Fire Range Nitr	SOIL	see pre-prep	n/a	n/a	8	40	
2	K1701351-002	FD-020817			8330B Fire Range Nitr	SOIL						
3	K1701351-003	FTBL-SB-02-0-0.5-020817			8330B Fire Range Nitr	SOIL						
4	K1701351-004	FTBL-SB-02-0.5-2-020817			8330B Fire Range Nitr	SOIL						
5	K1701351-005	FTBL-SB-02-4-5.5-020817			8330B Fire Range Nitr	SOIL						
6	K1701351-006	FTBL-SB-01D-0-0.5-020717			8330B Fire Range Nitr	SOIL						
7	K1701351-007	FTBL-SB-01D-0.5-2-020717			8330B Fire Range Nitr	SOIL						
8	K1701351-008	FTBL-SB-01D-4-6-020717			8330B Fire Range Nitr	SOIL						
9	K1701351-009	FTBL-SB-01-0-0.5-020717			8330B Fire Range Nitr	SOIL						
10	K1701351-010	FTBL-SB-01-0.5-2-020717			8330B Fire Range Nitr	SOIL						
11	K1701351-011	FTBL-SB-01-4-6-020717			8330B Fire Range Nitr	SOIL						
12	K1701351-012	FTBL-SB-03-0-0.5-020817			8330B Fire Range Nitr	SOIL						
13	K1701351-013	FTBL-SB-03-6-8-020817			8330B Fire Range Nitr	SOIL						
14	K1701351-015	FTBL-SB03-28-30-020917			8330B Fire Range Nitr	SOIL						
15	KWG1701417-1	Duplicate K1701351-001			8330B Fire Range Nitr	SOIL						
16	KWG1701417-2	Triplicate K1701351-001			8330B Fire Range Nitr	SOIL						
17	KWG1701417-3	Matrix Spike K1701351-001			8330B Fire Range Nitr	SOIL						20
18	KWG1701417-4	Duplicate Matrix Spike K1701351-001			8330B Fire Range Nitr	SOIL						20

Comments:

Surrogate ID: 16-OLC-02-14C 1000 ppm xp 5-31-17

Spike ID: 14-OLC-02-43M 1000 ppm xp 04-31-18

Witness: (b) (6) 2/21/17

Started By: (b) (6)

Completed By: (b) (6)

Assisted By: (b) (6)

Assisted By:

Group ID:	KWG1701417	**Prep Method:**	**Prep Date:**
Department:	Organic LC	EPA 3535A	02/21/17

#	Lab Code	Client ID	B#	√	Product	Matrix	Amt. Ext. g	pH	Int. Vol.	Final Vol. mL	Surr. Added mL	Spike Added mL
19	KWG1701417-5	Standard Reference Material	—		8330B Fire Range Nitr	SOIL	see pre-prep	N/a	N/a	8	40	—
20	KWG1701417-6	Storage Blank GB1	—		8330B Fire Range Nitr	SOIL	↓	↓	↓	↓	↓	—
21	KWG1701417-7	Storage Blank GB2	—		8330B Fire Range Nitr	SOIL	↓	↓	↓	↓	↓	—
22	KWG1701417-8	Lab Control Sample	—		8330B Fire Range Nitr	SOIL	↓	↓	↓	↓	↓	20
23	KWG1701417-9	Method Blank	—		8330B Fire Range Nitr	SOIL	↓	↓	↓	↓	↓	—

Comments:

Surrogate ID: 16-OLC-02-14C 1000 ppm XP 05.31.17

Spike ID: 14-OLC-02-43M 1000 ppm XP 04.31.18

Witness: (b) (6) /17

Started By: [redacted] Assisted By:

Completed By: [redacted] Assisted By:

Additional Prep Information For Nitroaromatics and Nitramines by HPLC – SOP: SOC-8330B (rev. 4) in Soil

Service Request # K1701351 **Stealth Work Group #** KWG1701417

Lims Run # 282053

Solvents/Reagents used:

0.1% Glacial Acetic Acid/ACN Lot# 17-OLC-01-03L

ACN Lot# 56207 **Reagent Water Lot#** 56160

Balance ID#: -49, -50

Sonic Bath Start (Time/Date/Initial): 17:05 02/21/17 (b) (6)

Sonic Bath Stop (Time/Date/Initial): 12:30 02/22/17

Strata-X 33U 200mg/3mL cartridge Lot# S300-0219

Extraction Start (Time/Date/Initial): 1040 3.1.17 (b) (6)

Extraction Stop (Time/Date/Initial): 1430 3/1/17

Final Volume Start (Time/Date/Initial): 1430 3/1/17

Final Volume Stop (Time/Date/Initial): 1525 3/1/17

Completion (Time/Date/Initial) 1525 3/1/17 [redacted] **Vial Storage:** TOP SHELF

Archived Extract Storage: LIME JELLO

Comments/Observations:

Bench Sheet Review Check List
❑ Hold Times Met (if no, Reason:)
❑ Stealth group and lims group concur
❑ Prep date, dept, method, product code correct in stealth
❑ Spike Information correct
❑ Weights/Volumes and units correct on raw and final bench sheets
❑ Sample IDs have been checked—Bottle numbers appended if required
❑ Names present for: Started by, Completed by, relinquished by, and witnessed by.
❑ Training has been circled
❑ Extract Storage recorded
❑ Additional Prep Sheet completely filled out (NA or line out Blanks)
❑ All clean-ups have been noted on additional prep sheet
❑ Signed service request with Form V, if applicable, has been attached

Pre-Prep Information Benchsheet

Prep Run #: 282053 **Prep Method:** **Team:** **Prep Due Date:** Feb-21-2017

#	Lab Code	Bottle	Test Name	Weight	Sample Comments	Test Comments
1	K1701351-001	.03	Fire Range Nitr	10.004g		PrepComments:APOSEY K-BALANCE-49
2	K1701351-002	.03	Fire Range Nitr	10.015g		PrepComments:DMadden K-Balance-50
3	K1701351-003	.03	Fire Range Nitr	10.078g		PrepComments:DMadden K-Balance-50
4	K1701351-004	.04	Fire Range Nitr	10.291g		PrepComments:DMadden K-Balance-50
5	K1701351-005	.04	Fire Range Nitr	10.120g		PrepComments:DMadden K-Balance-50
6	K1701351-006	.04	Fire Range Nitr	10.320g		PrepComments:DMadden K-Balance-50
7	K1701351-007	.04	Fire Range Nitr	10.212g		PrepComments:DMadden K-Balance-50
8	K1701351-008	.04	Fire Range Nitr	10.220g		PrepComments:DMadden K-Balance-50
9	K1701351-009	.04	Fire Range Nitr	10.159g		PrepComments:DMadden K-Balance-50
10	K1701351-010	.04	Fire Range Nitr	10.017g		PrepComments:DMadden K-Balance-50
11	K1701351-011	.04	Fire Range Nitr	10.189g		PrepComments:DMadden K-Balance-50
12	K1701351-012	.05	Fire Range Nitr	10.090g		PrepComments:DMadden K-Balance-50
13	K1701351-013	.05	Fire Range Nitr	10.026g		PrepComments:DMadden K-Balance-50
14	K1701351-015	.07	Fire Range Nitr	10.048g		PrepComments:DMadden K-Balance-50
15	K1701351-001 DUP KQ1701866-01	.03	Fire Range Nitr	10.004g		PrepComments:APOSEY K-BALANCE-49
16	K1701351-001 TRP KQ1701866-02	.03	Fire Range Nitr	10.047g		PrepComments:APOSEY K-BALANCE-49
17	K1701351-001 MS KQ1701866-03	.03	Fire Range Nitr	10.007g		PrepComments:APOSEY K-BALANCE-49
18	K1701351-001 DMS KQ1701866-04	.03	Fire Range Nitr	10.017g		PrepComments:APOSEY K-BALANCE-49
19	KQ1701866-05 SRM KQ1701866-05	.01	Fire Range Nitr	10.036	17-OLC-01-13C xp 2.28.17	
20	KQ1701866-06 MB KQ1701866-06	.01	Fire Range Nitr	10.317	Samples 1-10	
21	KQ1701866-07 MB KQ1701866-07	.02	Fire Range Nitr	10.084	11-13, 15	

*% Solids is a calculated field meant solely as a reference value for verifying the presence of Total Solids in calculations

014094 Page 2460 of 4534 11/01/2018

Date: 12/7/2016 **ALS Kelso, WA** **ICAL Date:** 12/7/2016

By: AE **Injection Log** **ICAL ID:** (254)-15062 (210)-15063

Stealth ID: n/a **LC10 - Agilent 1260** **LIMS ID:** n/a

2nd Review: (b) (6)

Column: Phen. Synergi Hydro-RP 80A 250x4.6 mm SN 759076-19

Mobile Phases A: MeOH Lot#: 56175 **B:** ACN Lot#: 56165 **C:** H_2O Lot#: 56006 **D:**

	Sample Name	File Name	Method	Dilution	R	Comments
1		12070000101	8330BX+DIAMINOS.M	NA		
2		12070000102	8330BX+DIAMINOS.M	NA		
3		1207000202	8330BX+DIAMINOS.M	NA		
4		1207000203	8330BX+DIAMINOS.M	NA		
5		1207000204	8330BX+DIAMINOS.M	NA		
6		1207000205	8330BX+DIAMINOS.M	NA		
7		1207000206	8330BX+DIAMINOS.M	NA		
8		1207000207	8330BX+DIAMINOS.M	NA		
9		1207000303	8330BX+DIAMINOS.M	NA		
10		1207000404	8330BX+DIAMINOS.M	NA		
11		1207000405	8330BX+DIAMINOS.M	NA		
12		1207000505	8330BX+DIAMINOS.M	NA		
13		1207000601	8330BX+DIAMINOS.M	NA		
14		1207000602	8330BX+DIAMINOS.M	NA		
15		1207000603	8330BX+DIAMINOS.M	NA		
16		1207000701	8330BX+DIAMINOS.M	NA		
17		1207000702	8330BX+DIAMINOS.M	NA		
18	IB	1207000703	8330BX+DIAMINOS.M	NA	X	
19	16-OLC-01-89J 20 PPB	1207000704	8330BX+DIAMINOS.M	NA	X	
20	16-OLC-01-89I 50 PPB	1207000705	8330BX+DIAMINOS.M	NA	X	
21	16-OLC-01-89H 100 PPB	1207000706	8330BX+DIAMINOS.M	NA	X	
22	16-OLC-01-89G 200 PPB	1207000707	8330BX+DIAMINOS.M	NA	X	
23	16-OLC-01-89F 500 PPB	1207000708	8330BX+DIAMINOS.M	NA	X	
24	16-OLC-01-89E 1000 PPB	1207000709	8330BX+DIAMINOS.M	NA	X	
25	16-OLC-01-89D 2000 PPB	1207000710	8330BX+DIAMINOS.M	NA	X	
26	16-OLC-01-89C 5000 PPB	1207000711	8330BX+DIAMINOS.M	NA	X	
27	16-OLC-01-89B 10000 PPB	1207000712	8330BX+DIAMINOS.M	NA	X	
28	16-OLC-01-89A 20000 PPB	1207000713	8330BX+DIAMINOS.M	NA	X	
29	IB	1207000714	8330BX+DIAMINOS.M	NA	X	
30	16-OLC-01-89K 10000 PPB ICV	1207000715	8330BX+DIAMINOS.M	NA	X	

(Cal not valid for Diaminos)

R:\OLC\Injection Logs\LC10 2016\INJLOG_LC10_xl_120716_ICAL

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000703.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 19:36:44 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:14:56 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:09:42 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
Target Compounds						
1) T	Nitroglycerin	0.000	0	N.D.	ug/L	d
2) T	PETN	27.763	156171	8.404	ug/L	

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000703.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 19:36:44 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
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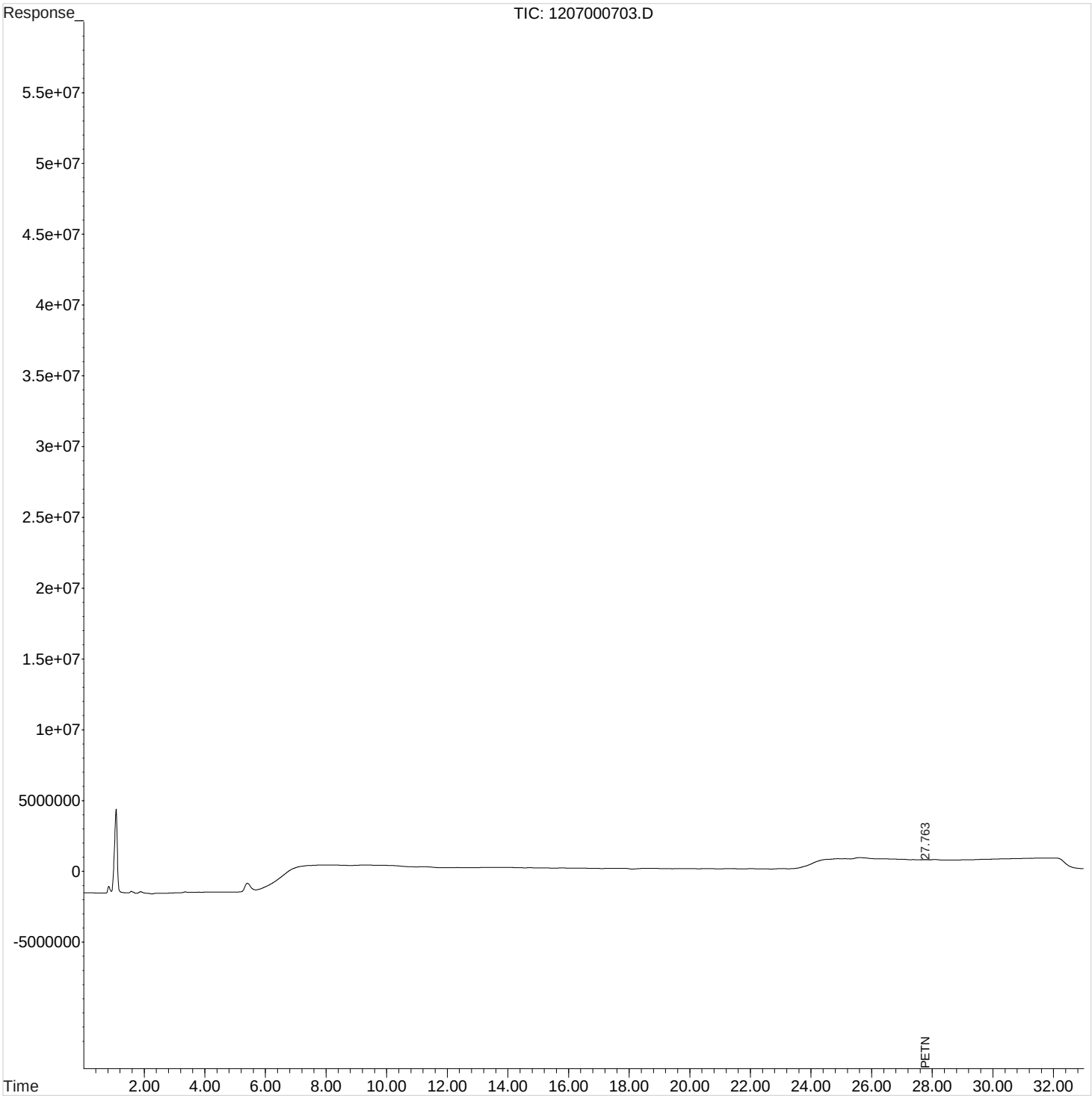
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:09:42 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:04 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.707	3217434	NoCal	ug/L	m
Target Compounds						
1) T	Nitroglycerin	16.654	1445069	NoCal	ug/L	m
2) T	PETN	27.787	1323782	NoCal	ug/L	m

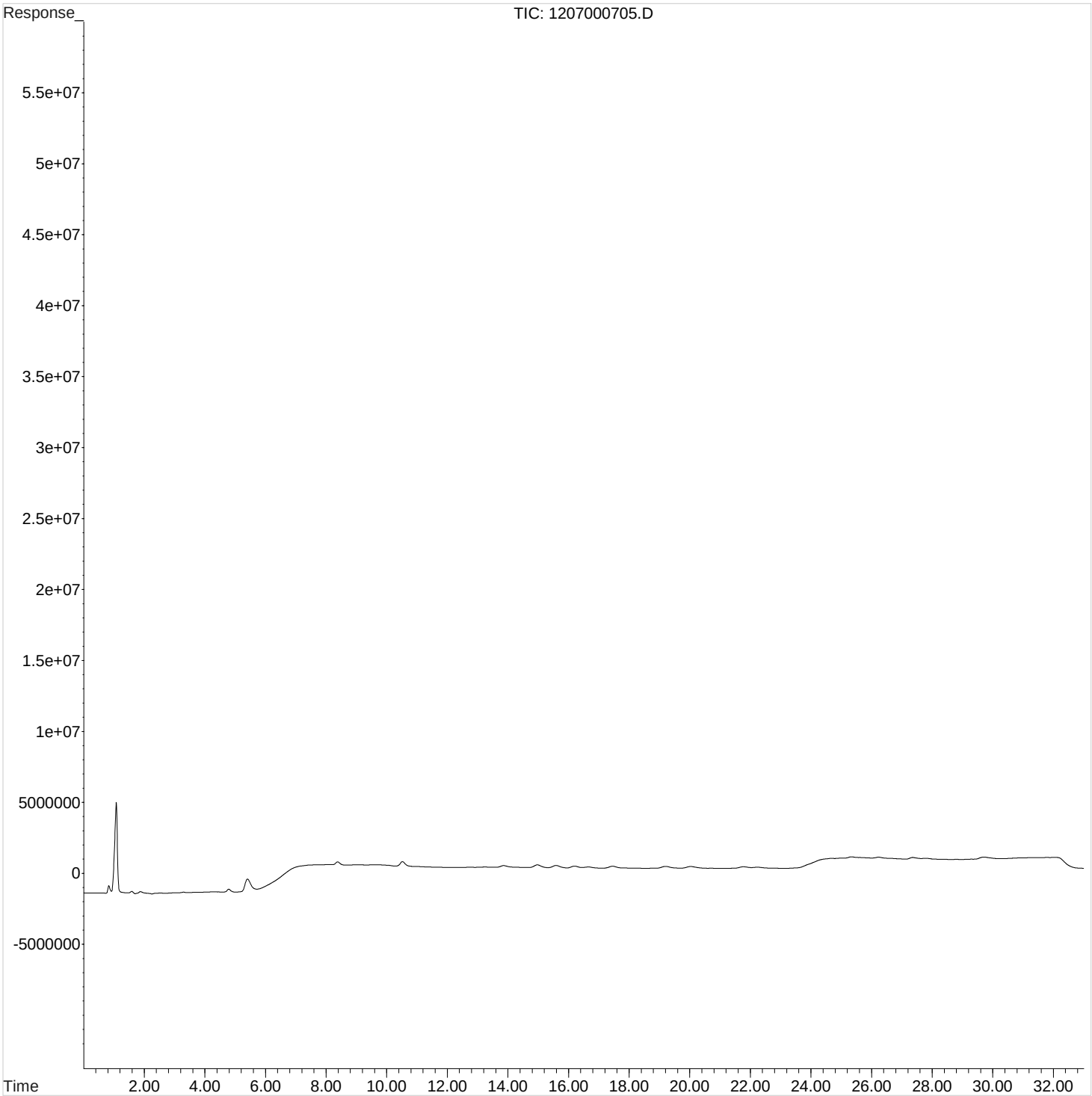
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:04 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

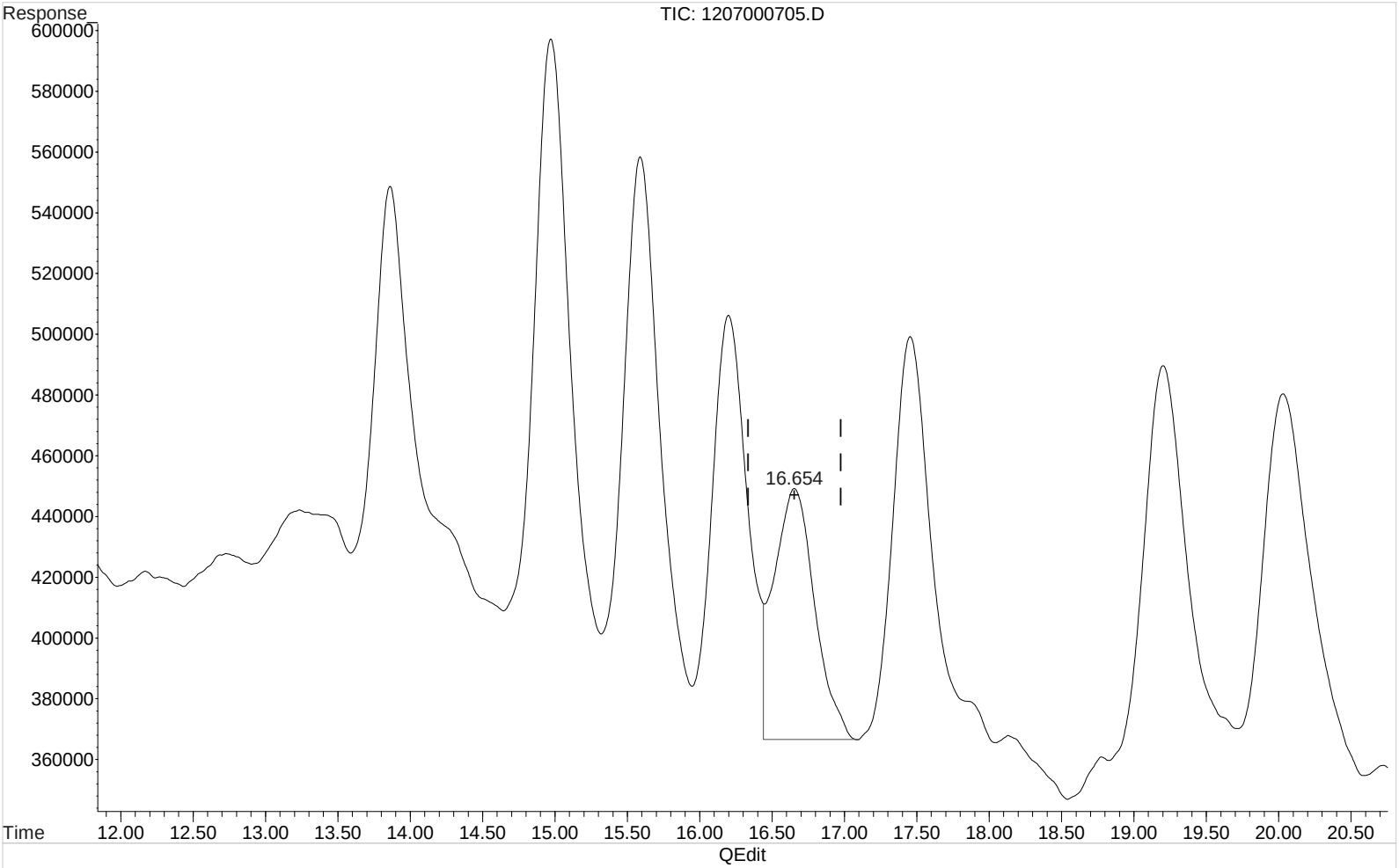


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:26:17 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.654min 0.000 ug/L

response 1614875

Manual Integration:

Before

12/08/16

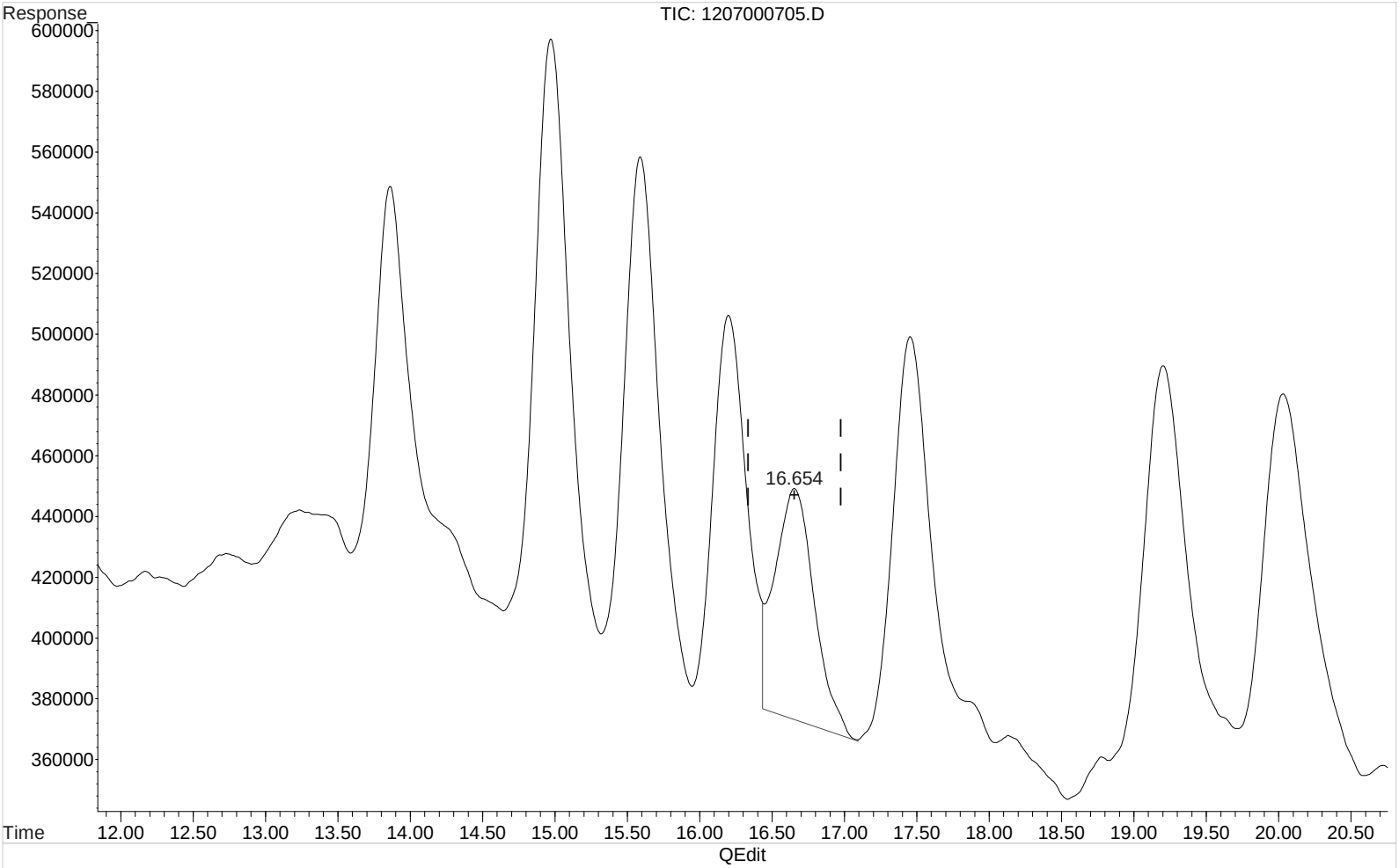
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:26:17 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.654min 0.000 ug/L m

response 1445069

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)

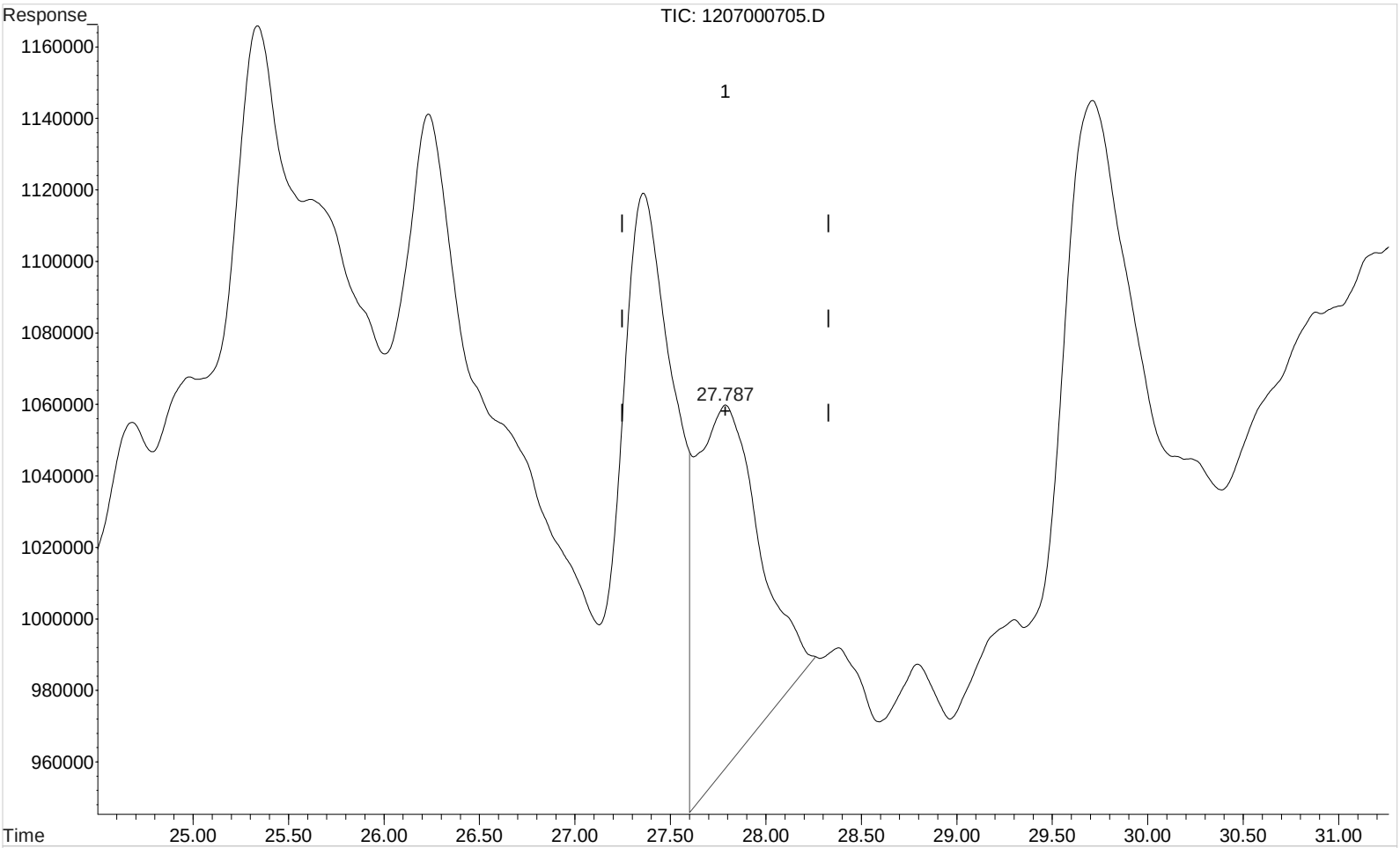
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:26:17 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.787min 0.000 ug/L

response 2332366

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

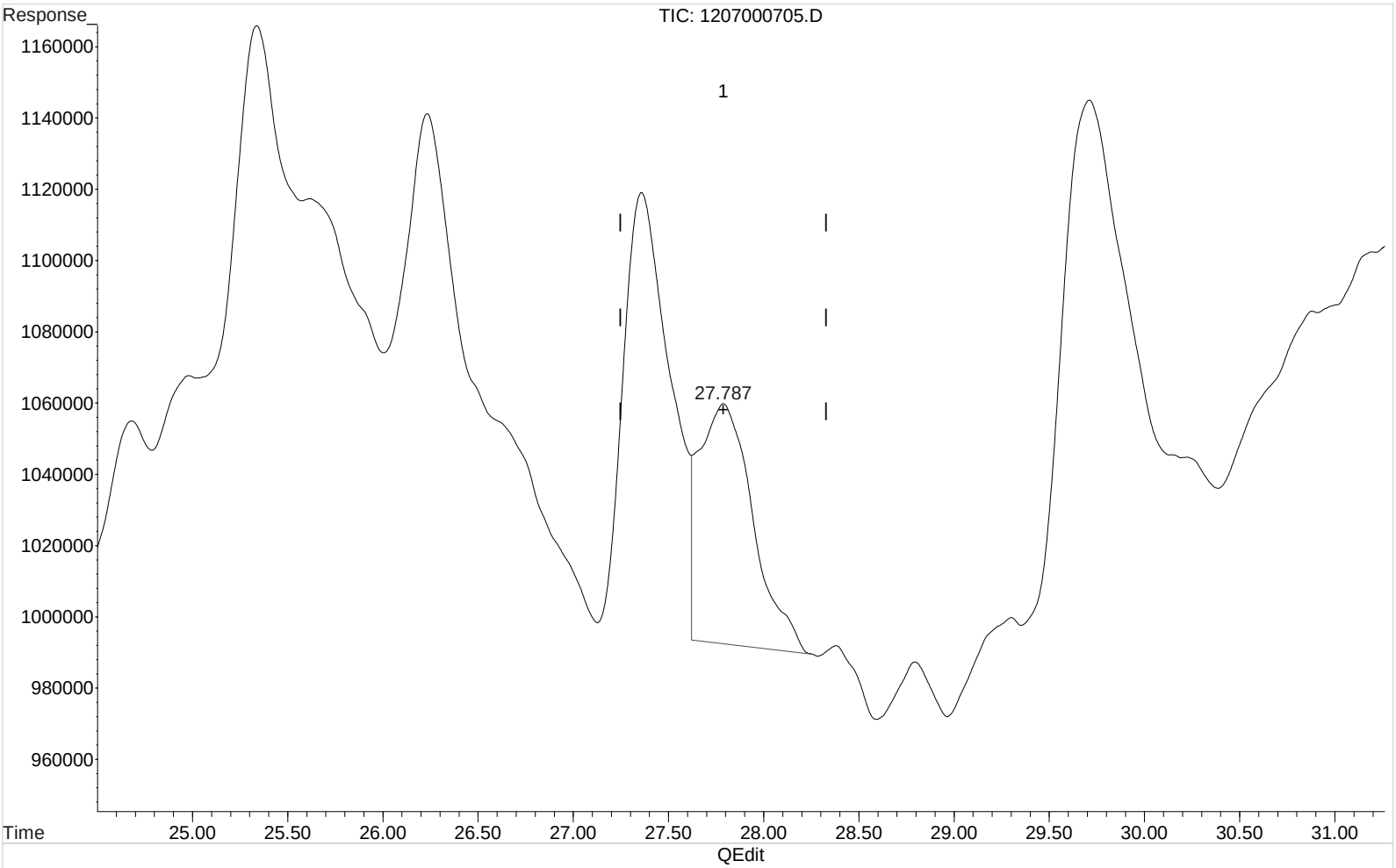
2/08/16

2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:26:17 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.787min 0.000 ug/L m

response 1323782

Manual Integration:

After

BLC

12/08/16

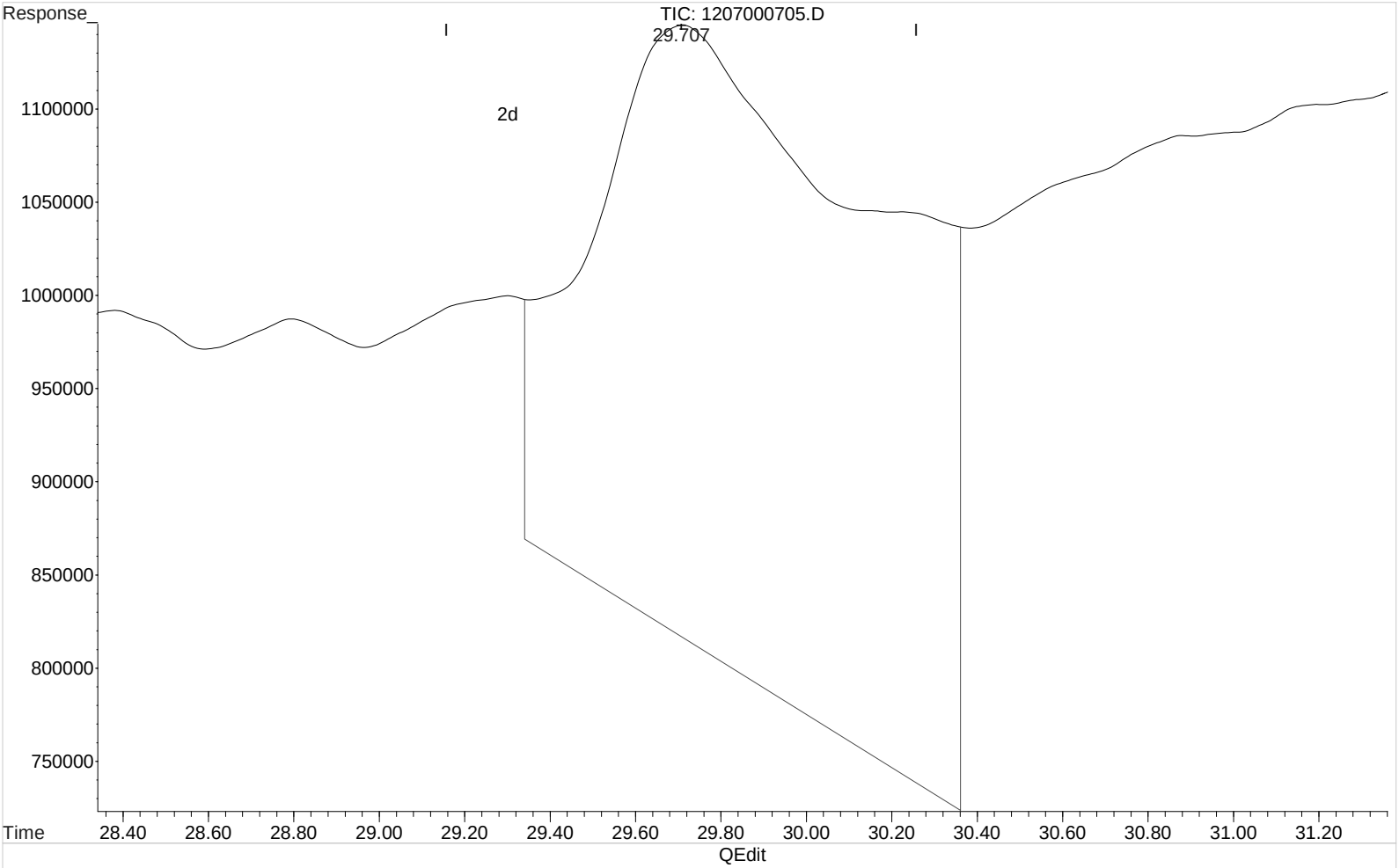
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:26:17 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

29.707min 0.000 ug/L

response 16661309

Manual Integration:

Before

12/08/16

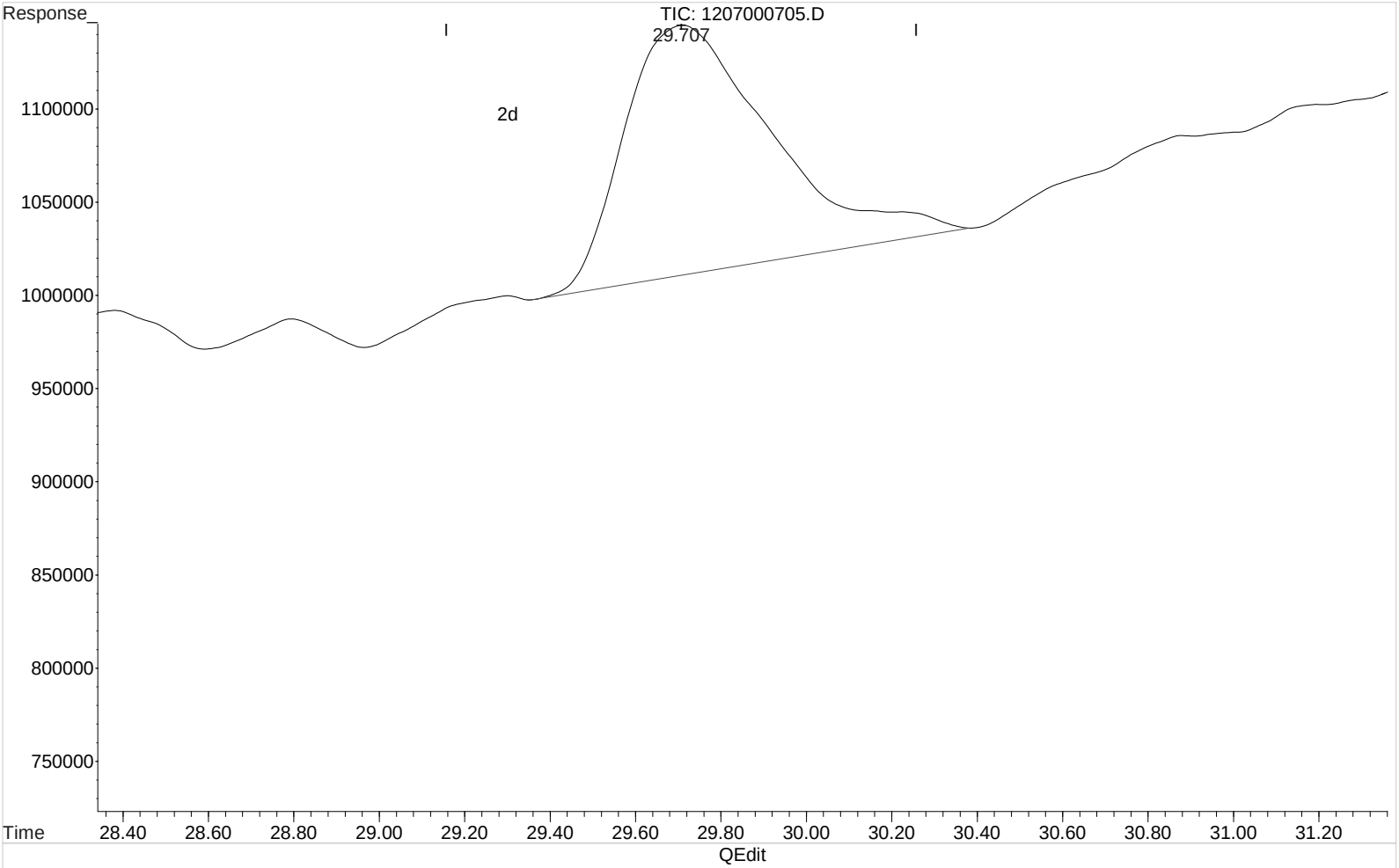
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:26:17 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

29.707min 0.000 ug/L m

response 3217434

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6) [redacted] 2/08/16 2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:28:57 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	29.681	5676794	88.219 ug/L m
Target Compounds				
1) T	Nitroglycerin	16.655	2024810	70.059 ug/L m
2) T	PETN	27.755	1480479	55.919 ug/L m

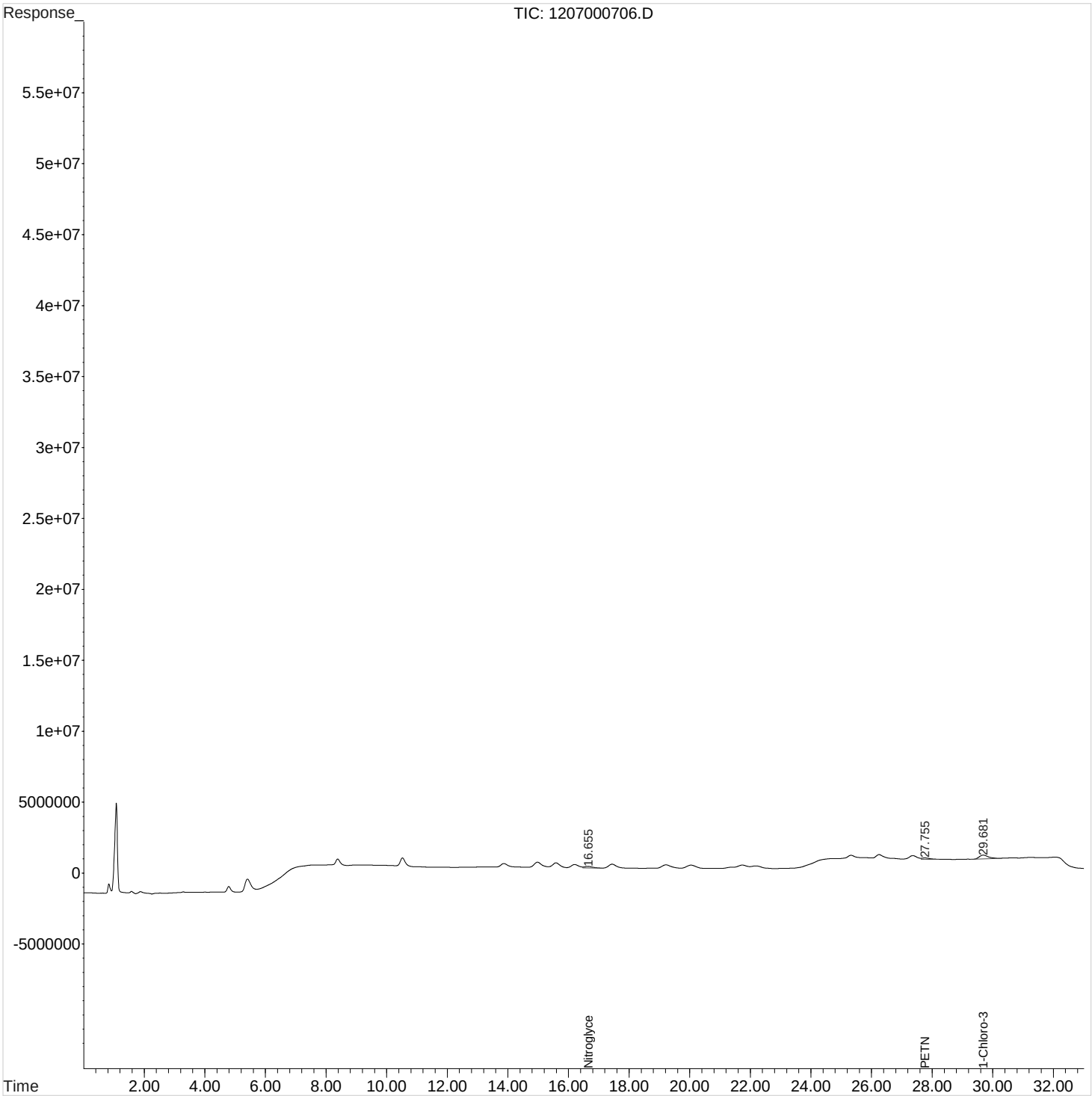
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:28:57 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(b) (6)

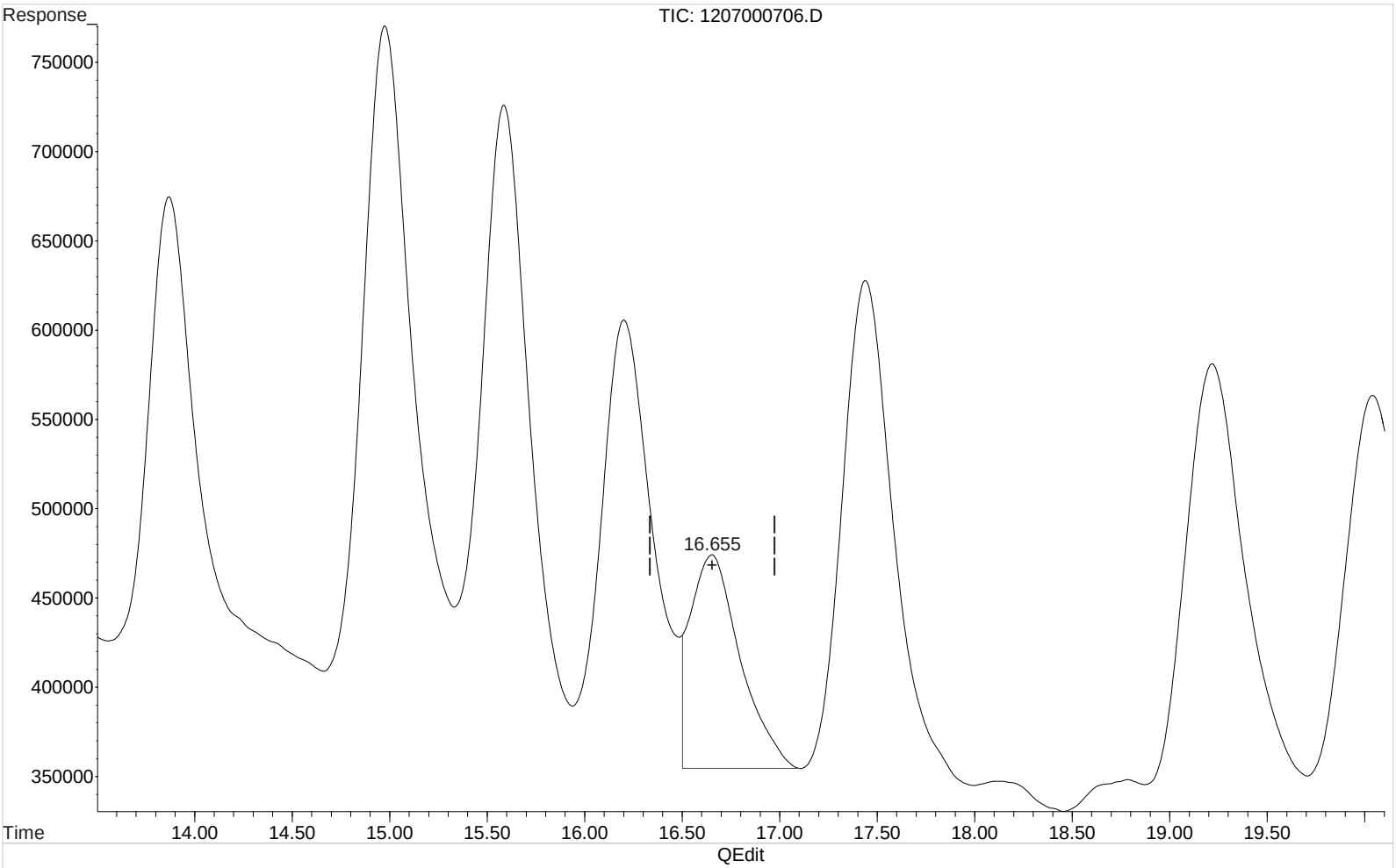
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.655min 73.227 ug/L

response 2116350

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

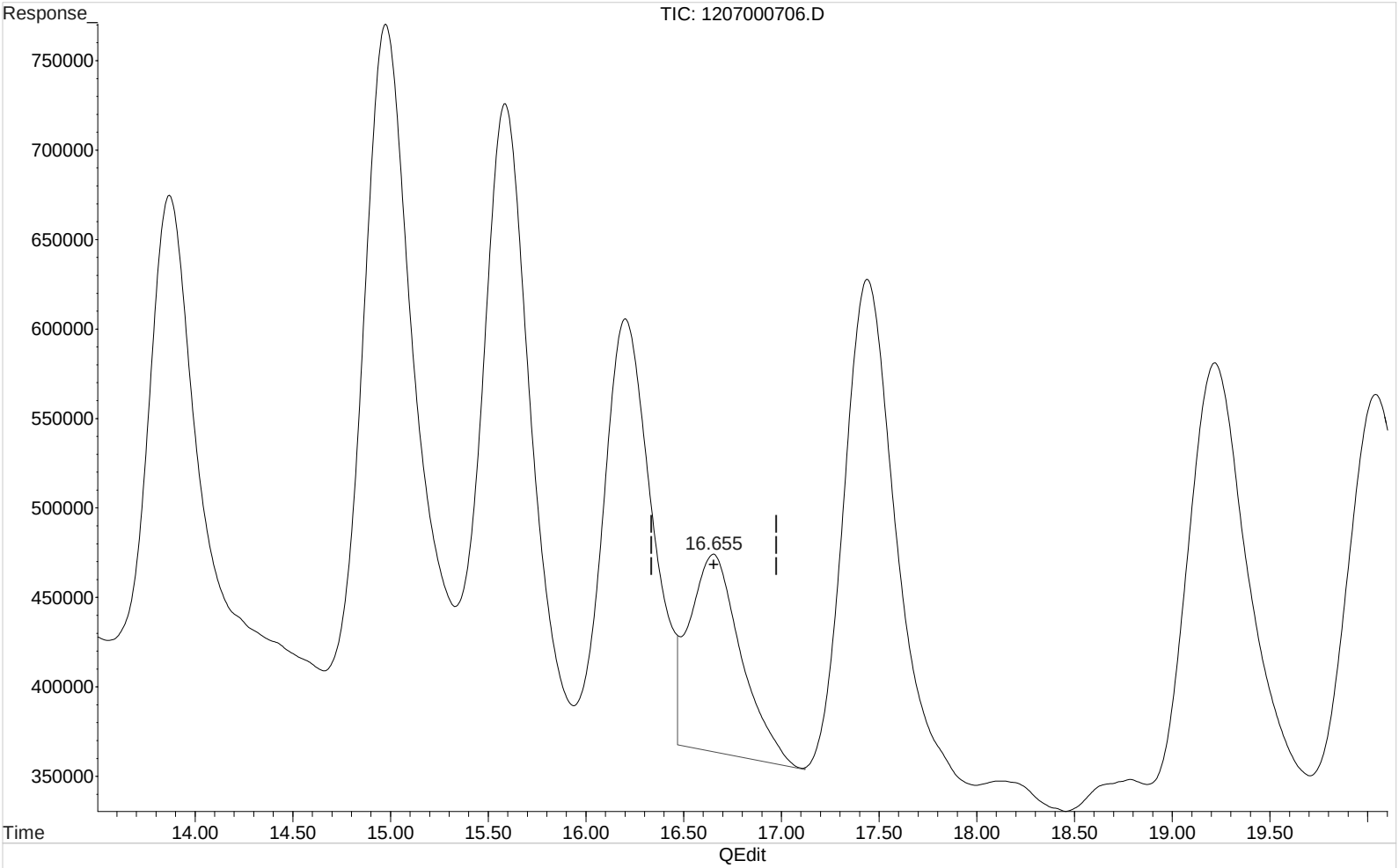
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.655min 70.059 ug/L m

response 2024810

Manual Integration:

After

BLC

12/08/16

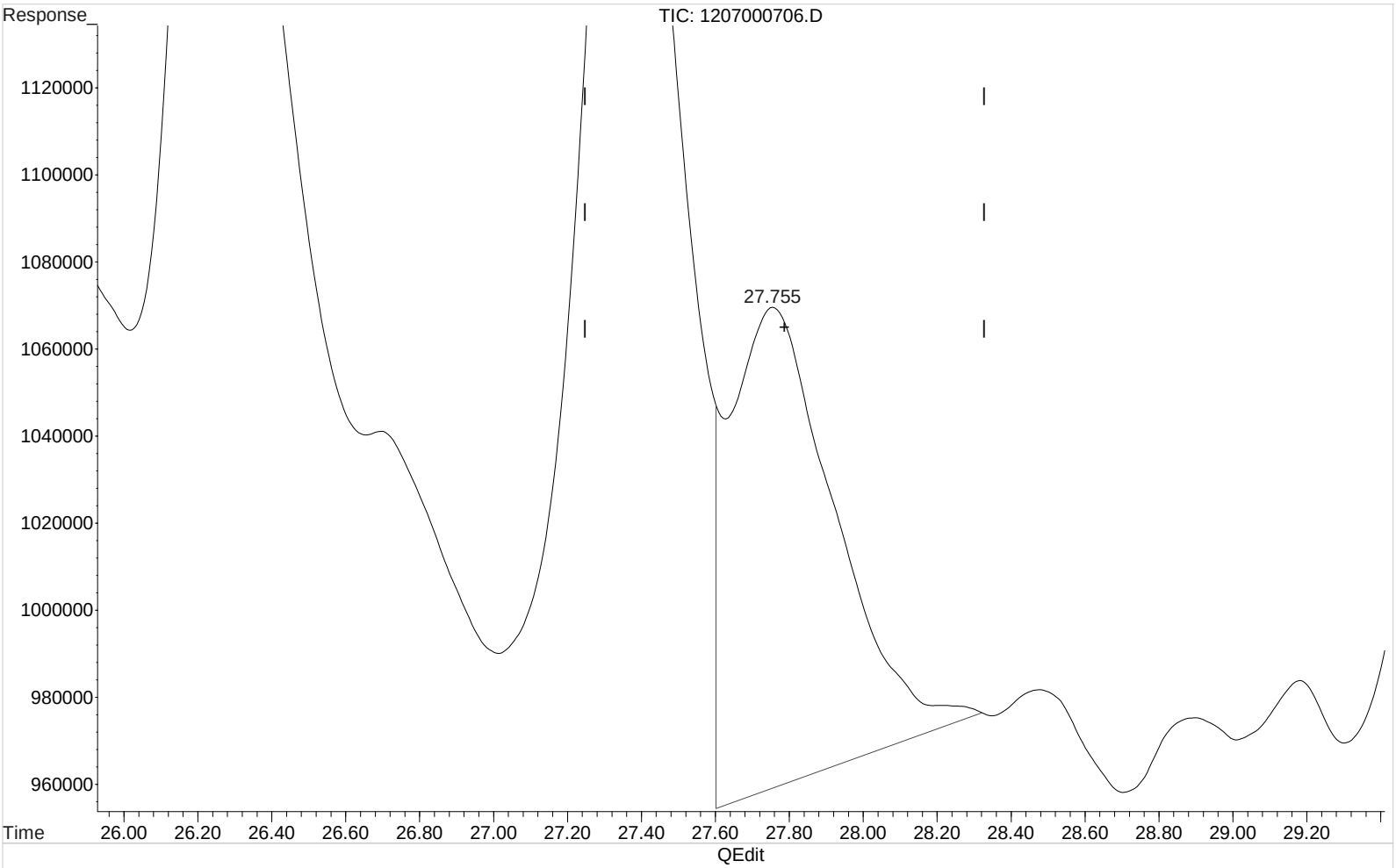
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.755min 83.103 ug/L

response 2200200

Manual Integration:

Before

12/08/16

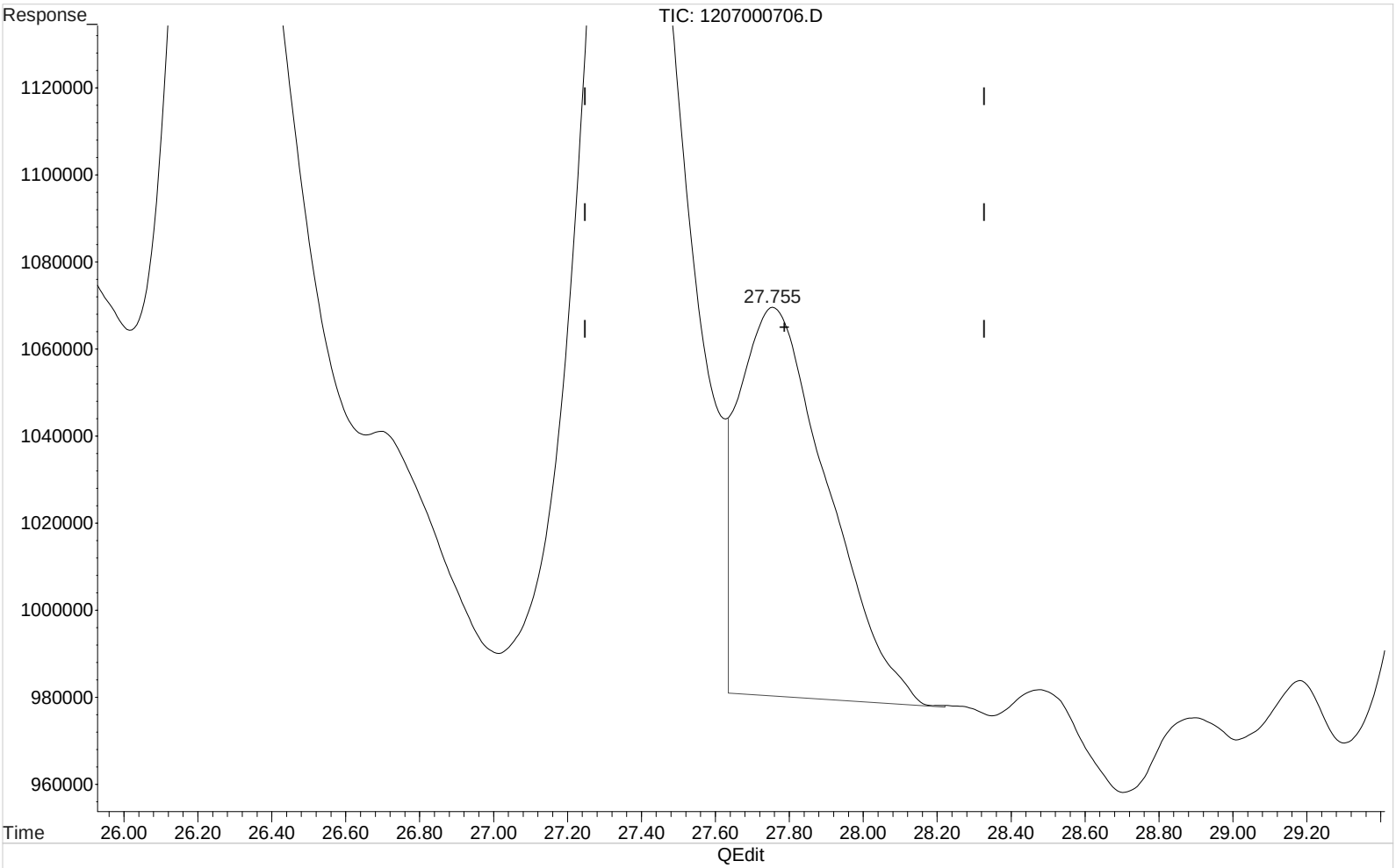
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.755min 55.919 ug/L m

response 1480479

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)

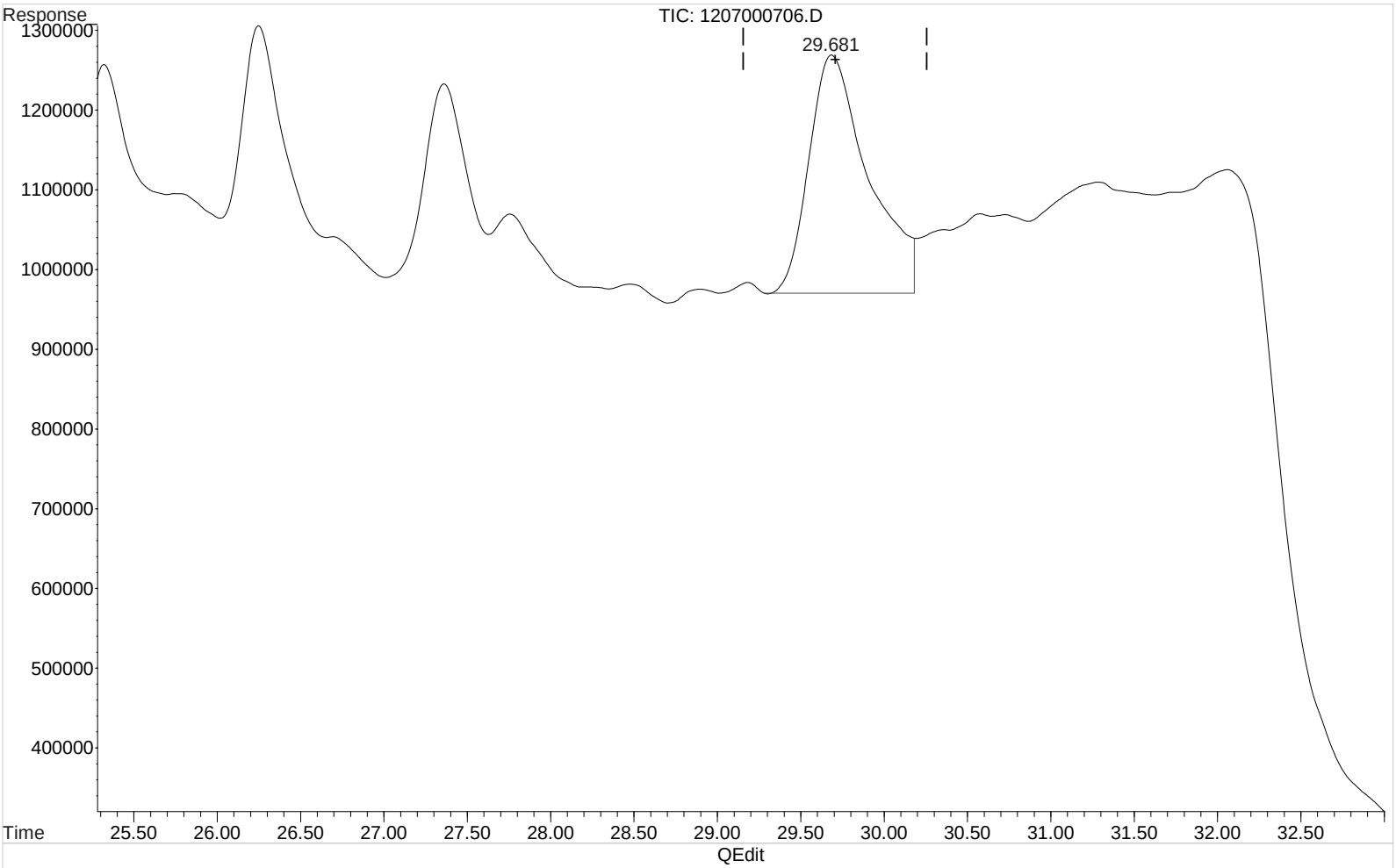
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.681min 115.316 ug/L

response 7420411

Manual Integration:

Before

12/08/16

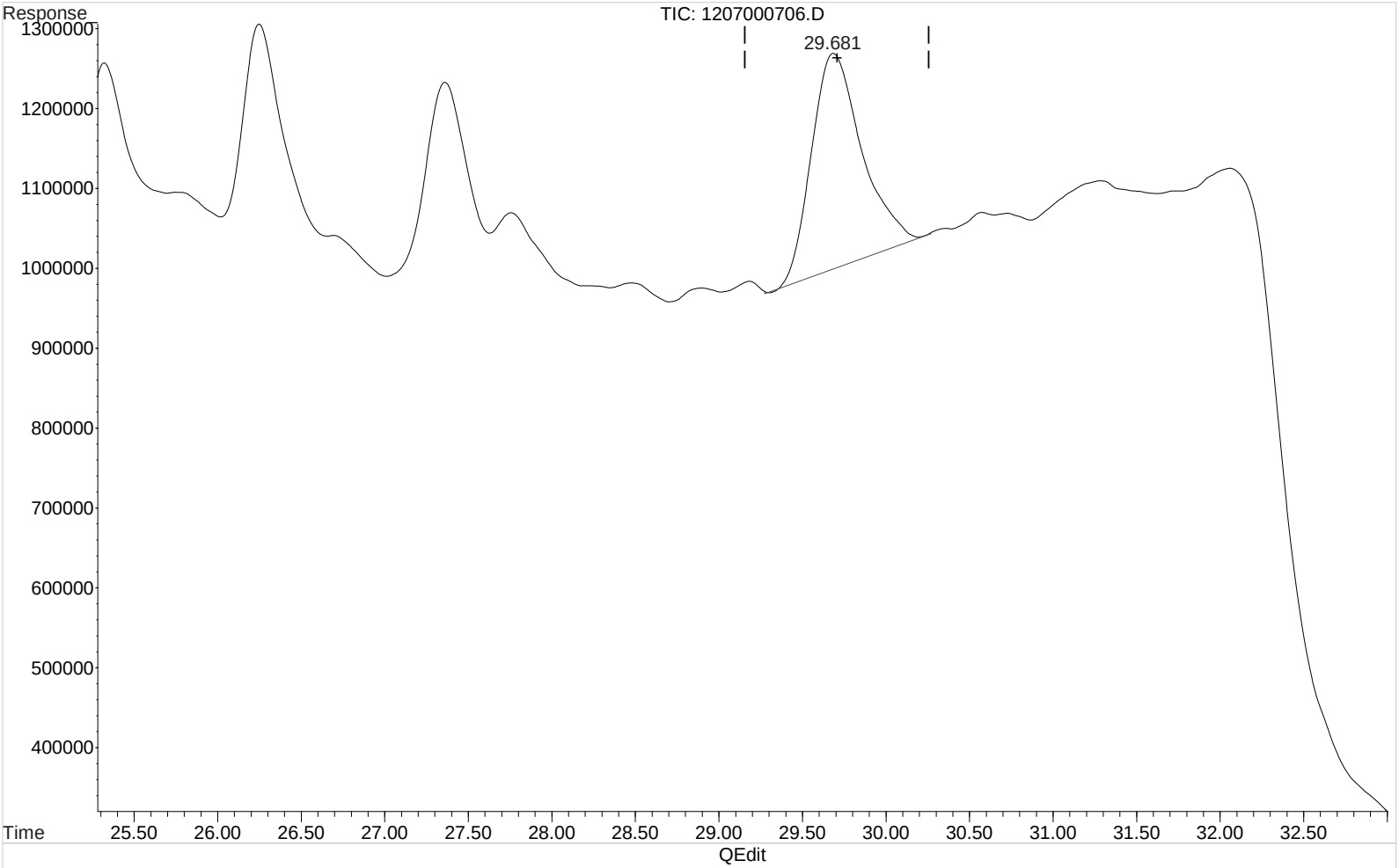
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

29.681min 88.219 ug/L m

response 5676794

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:07:38 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.700	11544733	190.638	ug/L	m
Target Compounds						
1) T	Nitroglycerin	16.646	3508399	142.764	ug/L	m
2) T	PETN	27.773	3761772	182.254	ug/L	m

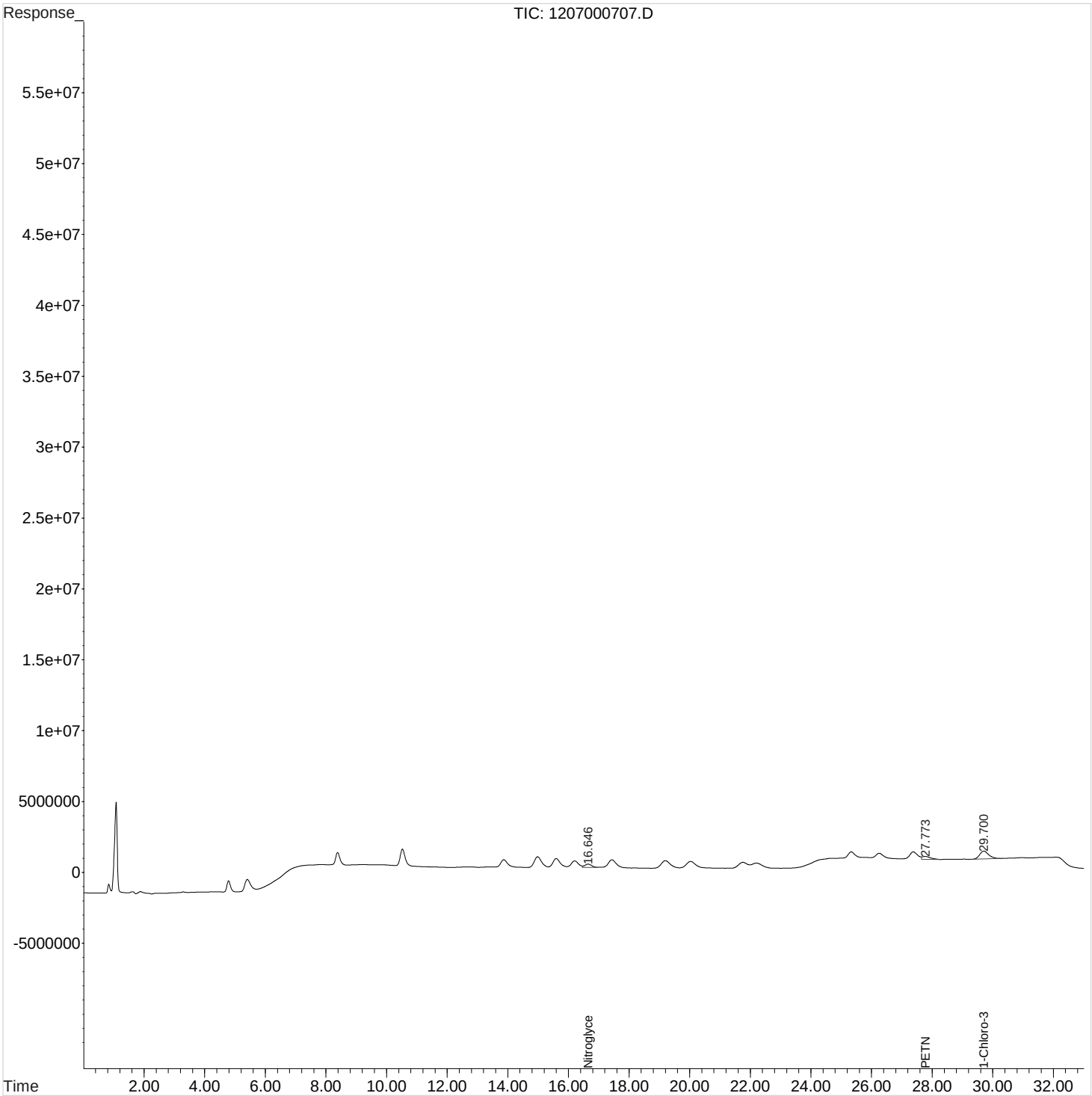
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:07:38 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

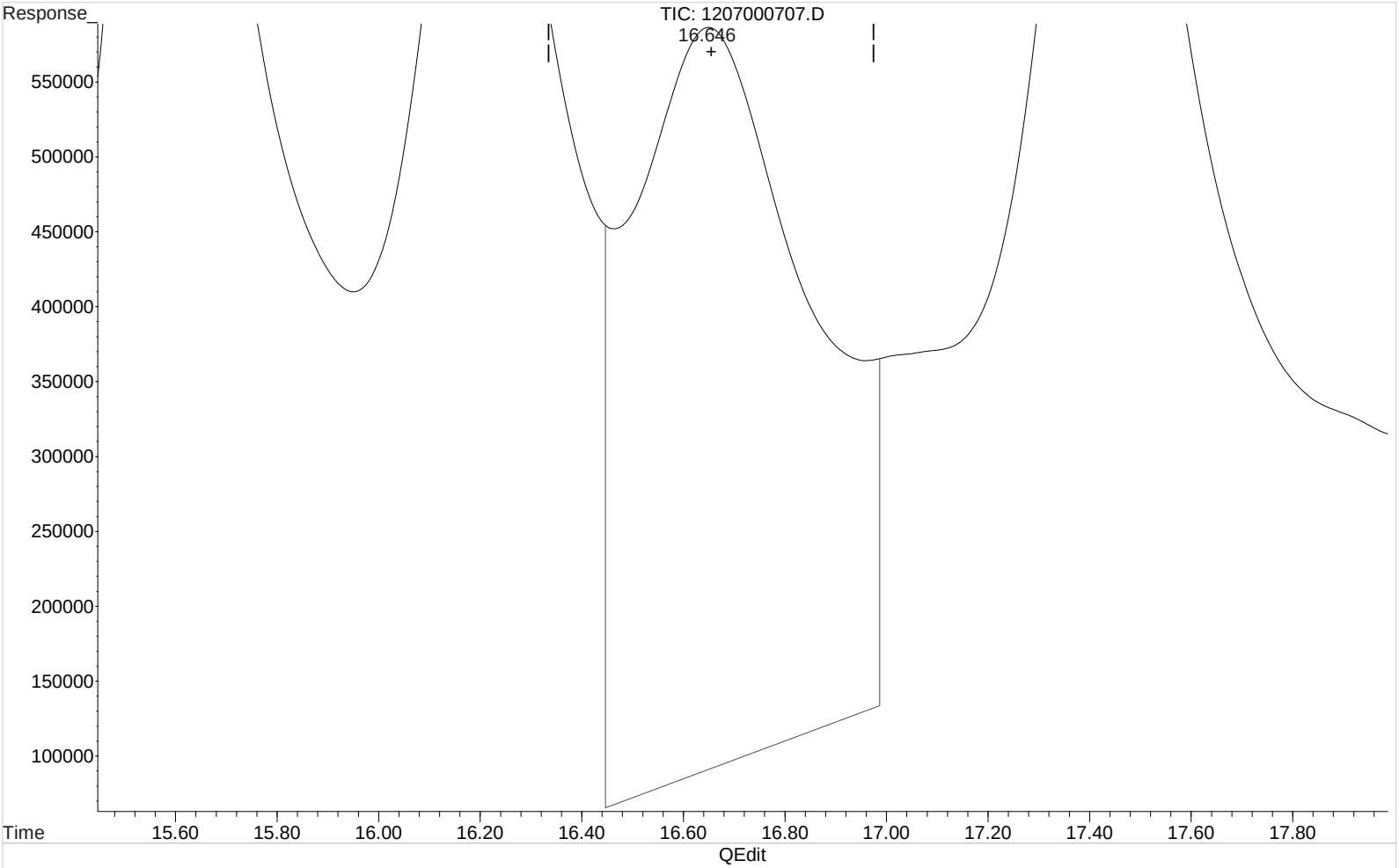


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:29:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.646min 492.695 ug/L

response 12107848

Manual Integration:

Before

12/08/16

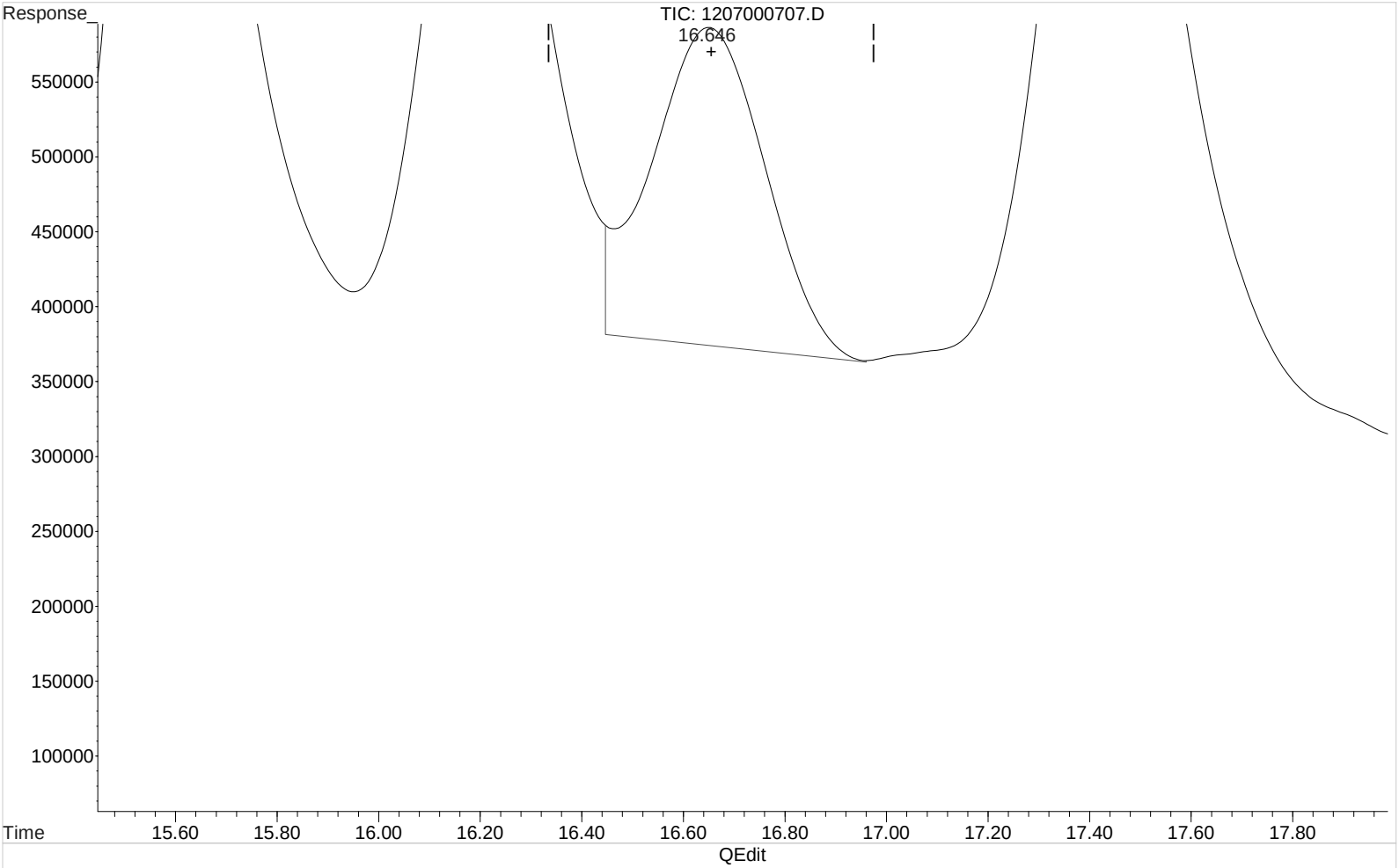
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:29:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.646min 133.721 ug/L m

response 3286165

Manual Integration:

After

BLC

12/08/16

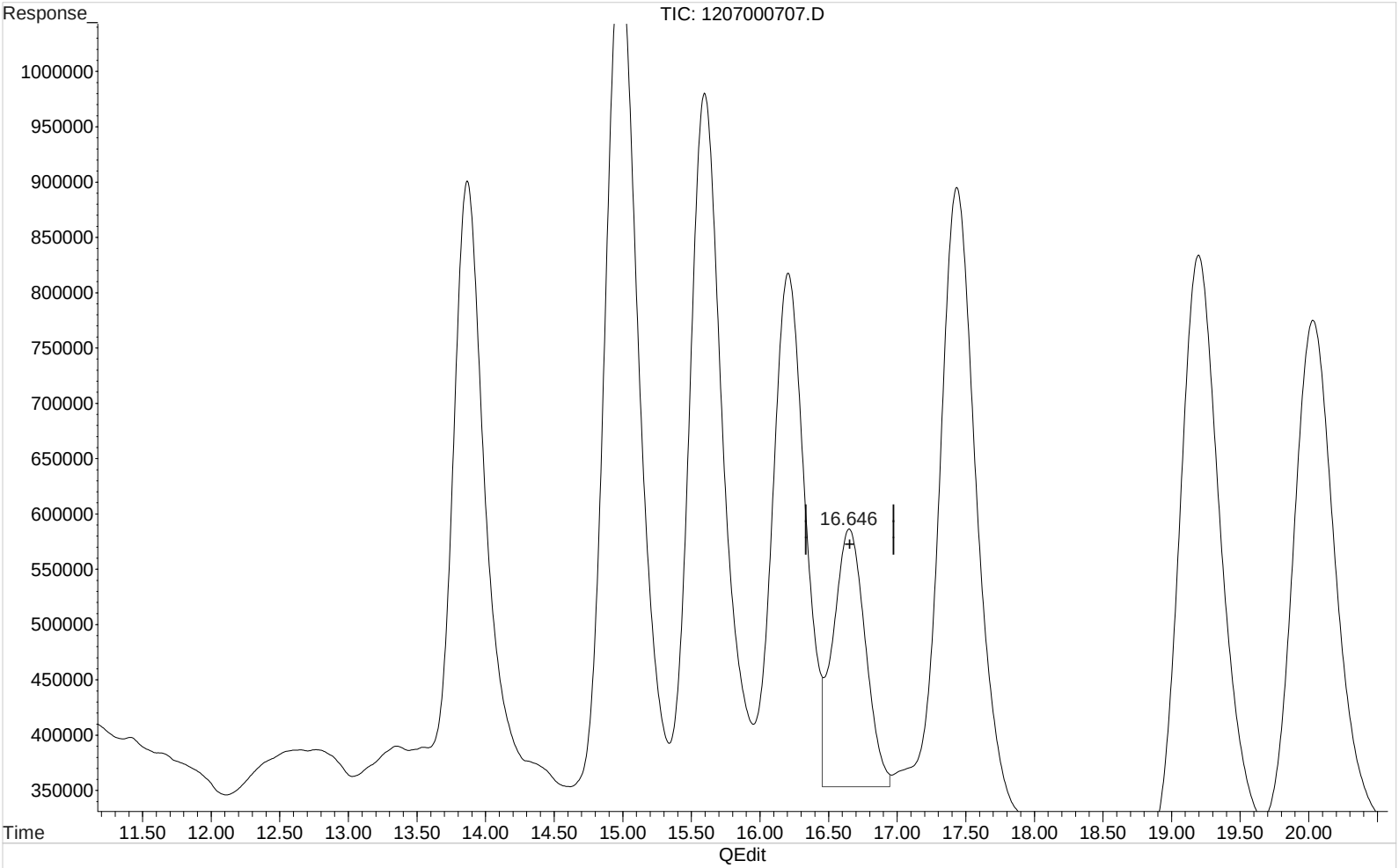
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:30:15 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.646min 155.245 ug/L m

response 3815102

Manual Integration:

After

BLC

12/08/16

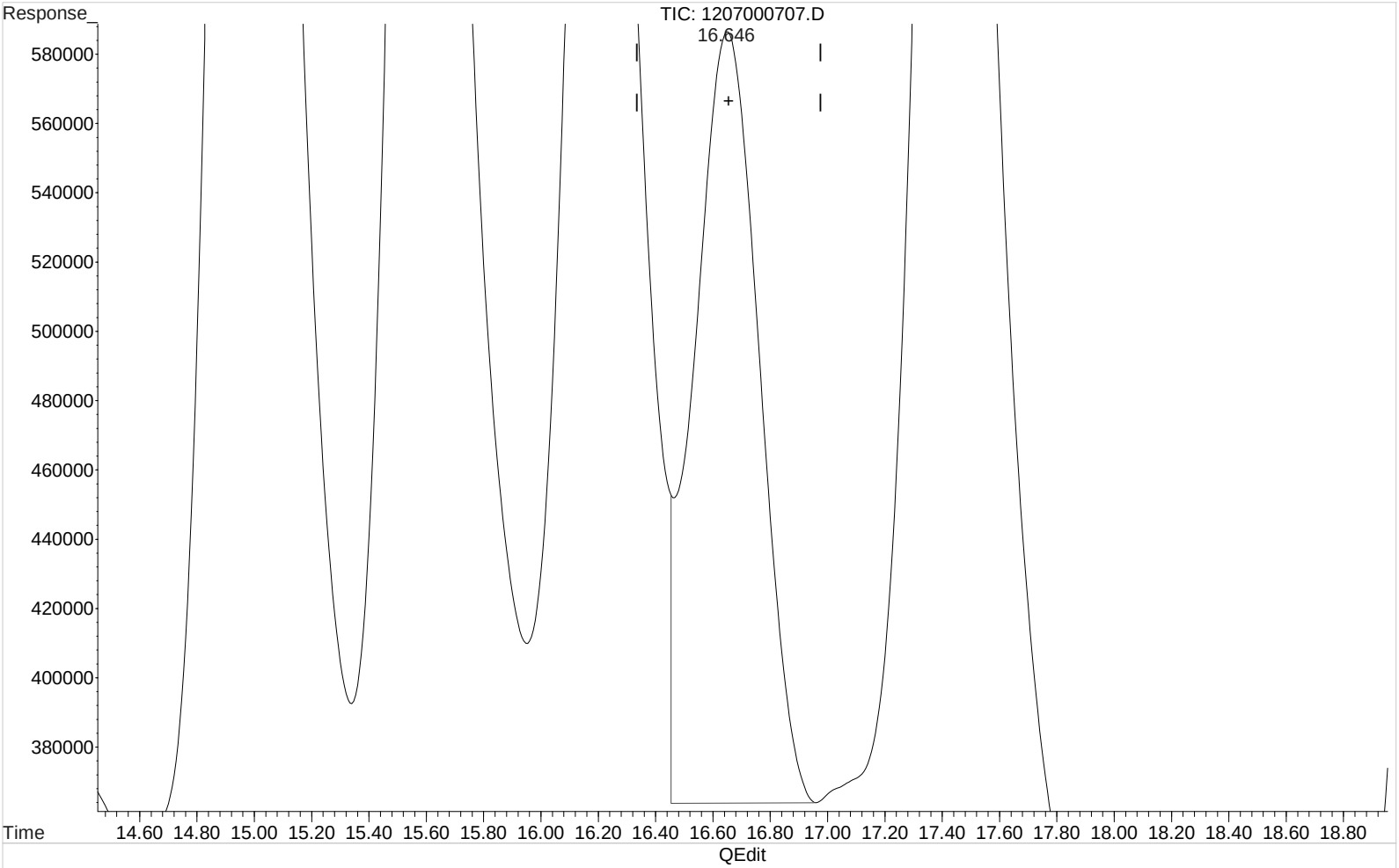
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:40:45 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.646min 142.764 ug/L m

response 3508399

Manual Integration:

After

Baseline/Shoulder

12/08/16

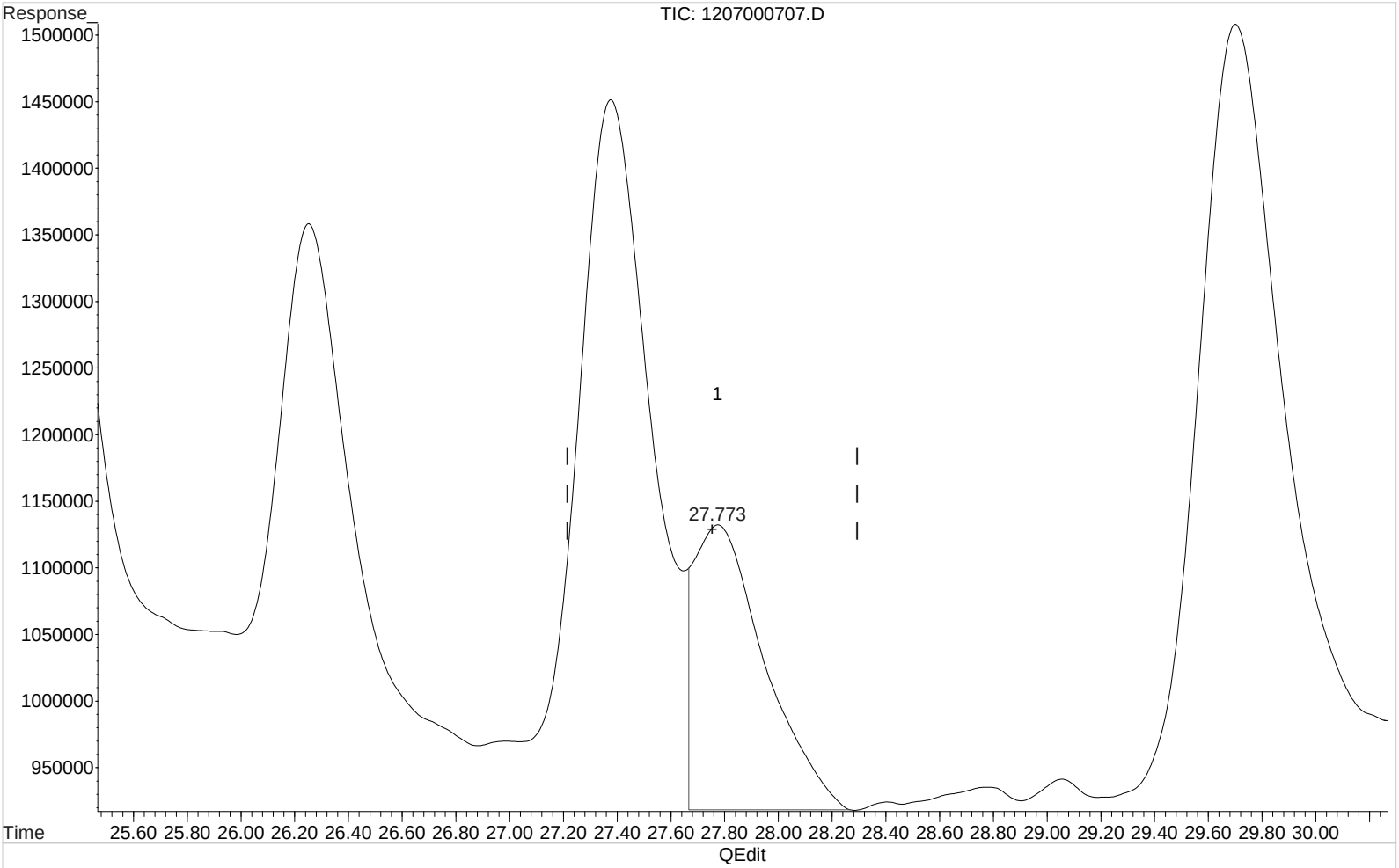
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:29:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.773min 187.377 ug/L

response 3867500

Manual Integration:

Before

12/08/16

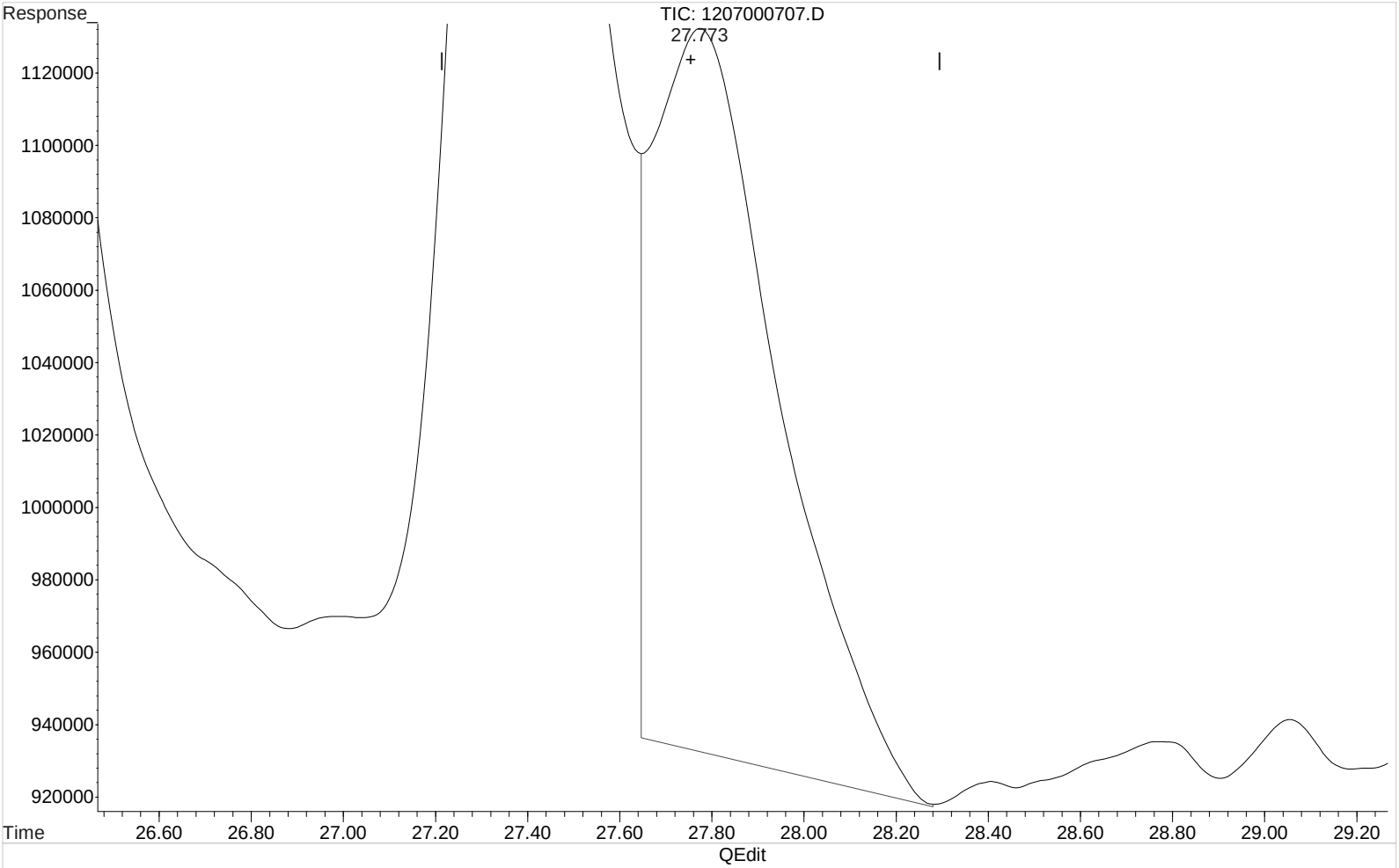
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:40:45 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.773min 182.254 ug/L m

response 3761772

Manual Integration:

After

Baseline/Shoulder

12/08/16

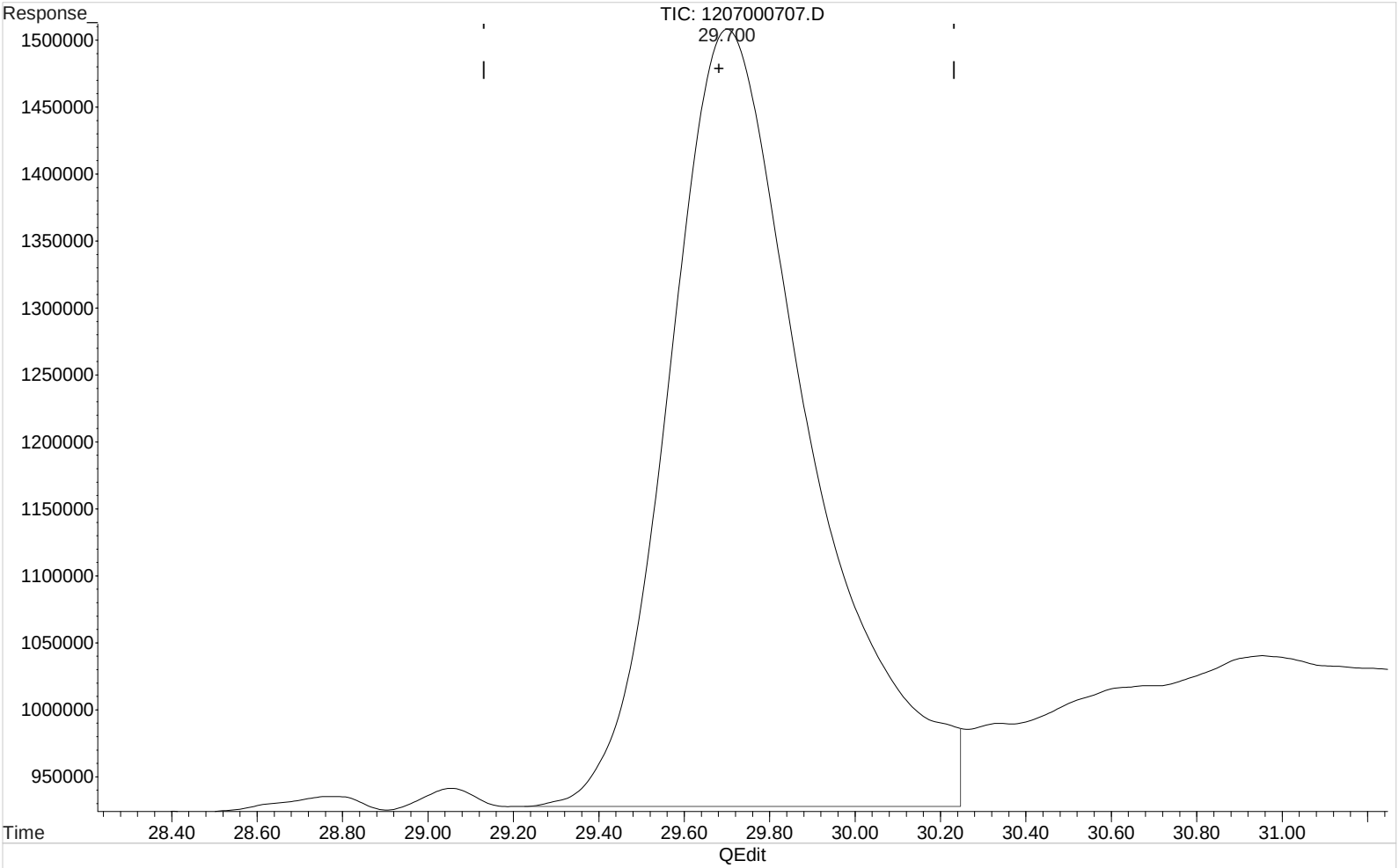
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:29:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.700min 218.688 ug/L

response 13243379

Manual Integration:

Before

12/08/16

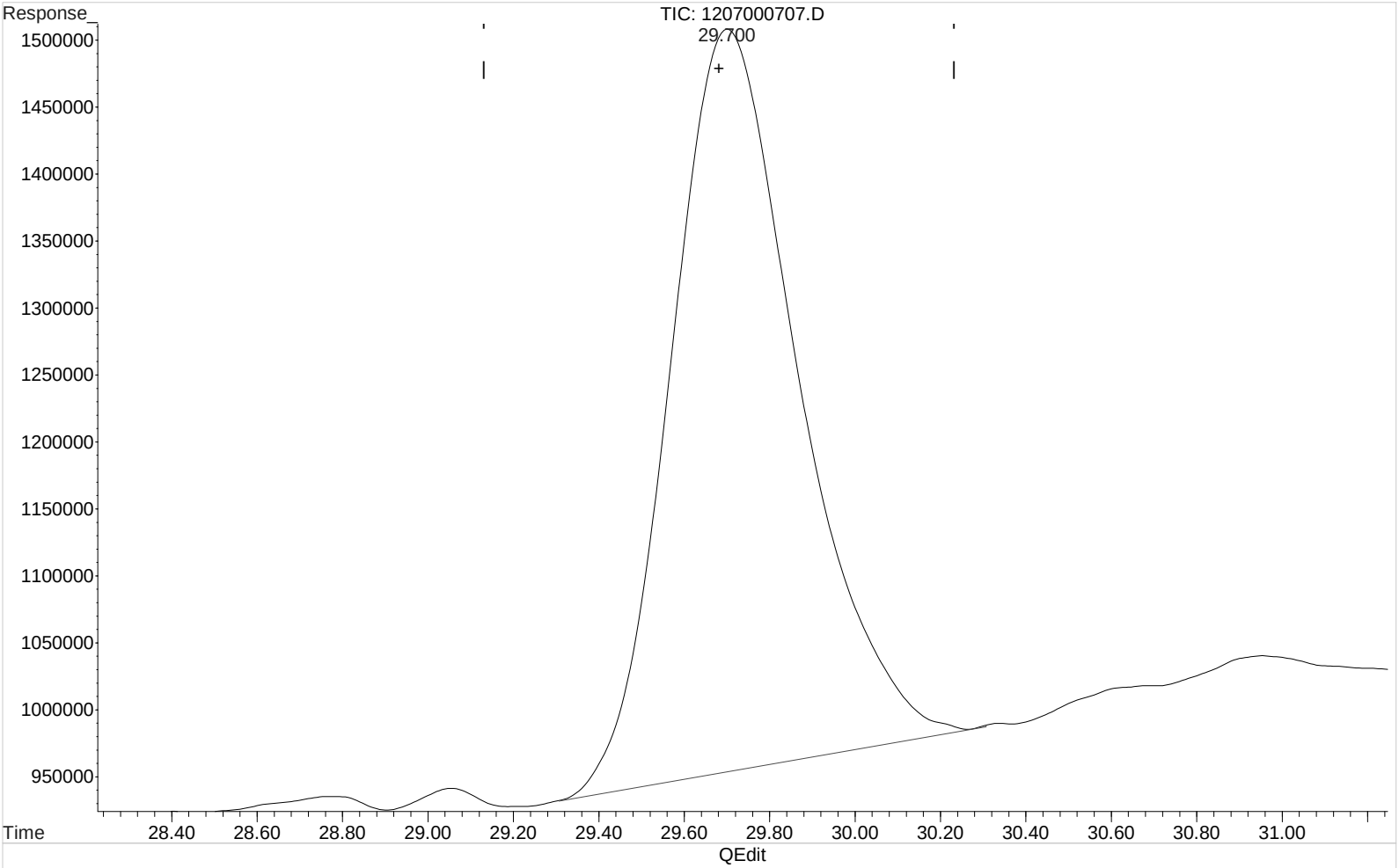
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:29:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.700min 190.638 ug/L m

response 11544733

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000708.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:08:18 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:30:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	29.705	28560027	479.087 ug/L m
Target Compounds				
1) T	Nitroglycerin	16.639	11239759	514.168 ug/L
2) T	PETN	27.792	8986852	439.492 ug/L m

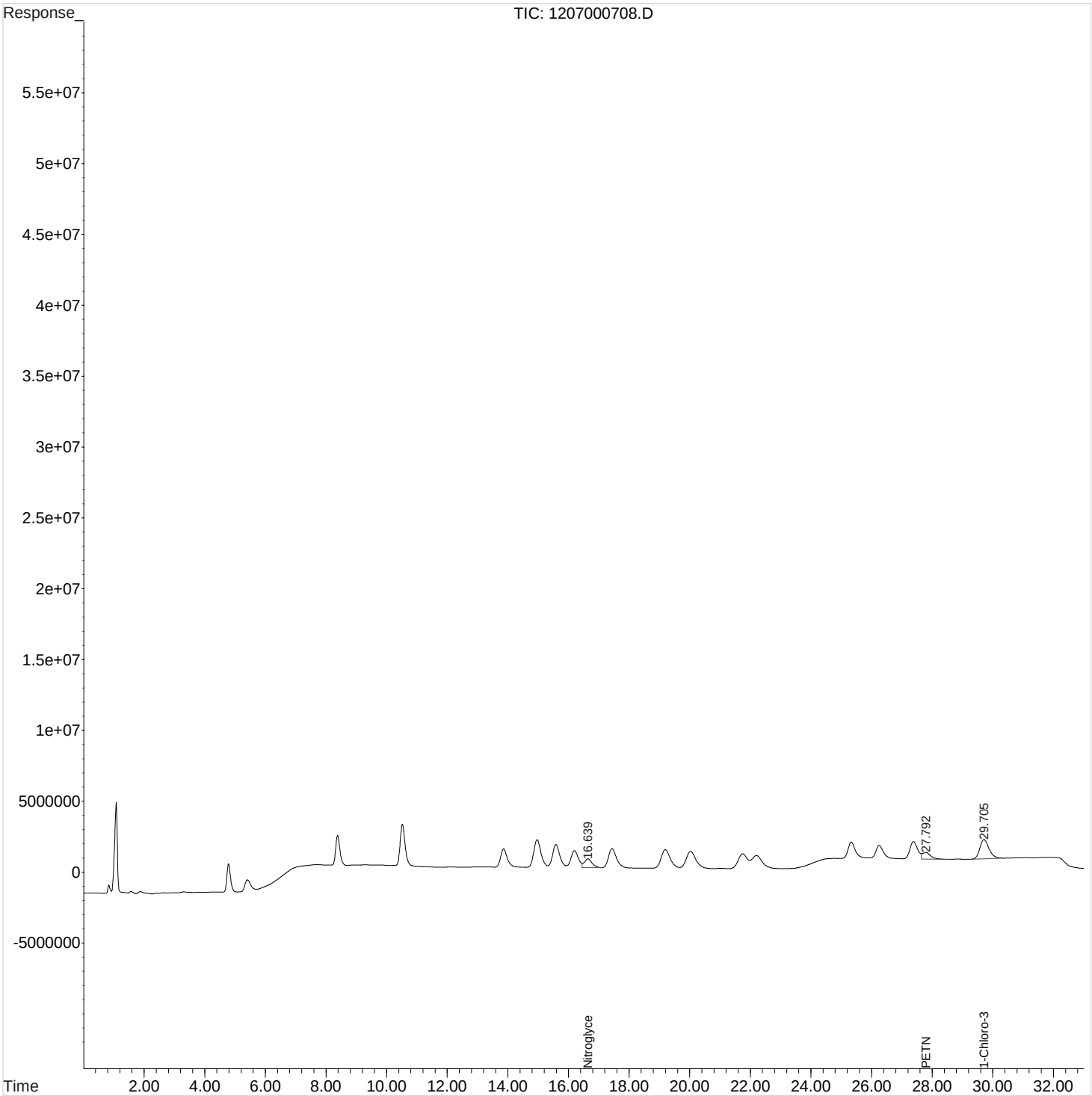
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000708.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:08:18 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:30:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

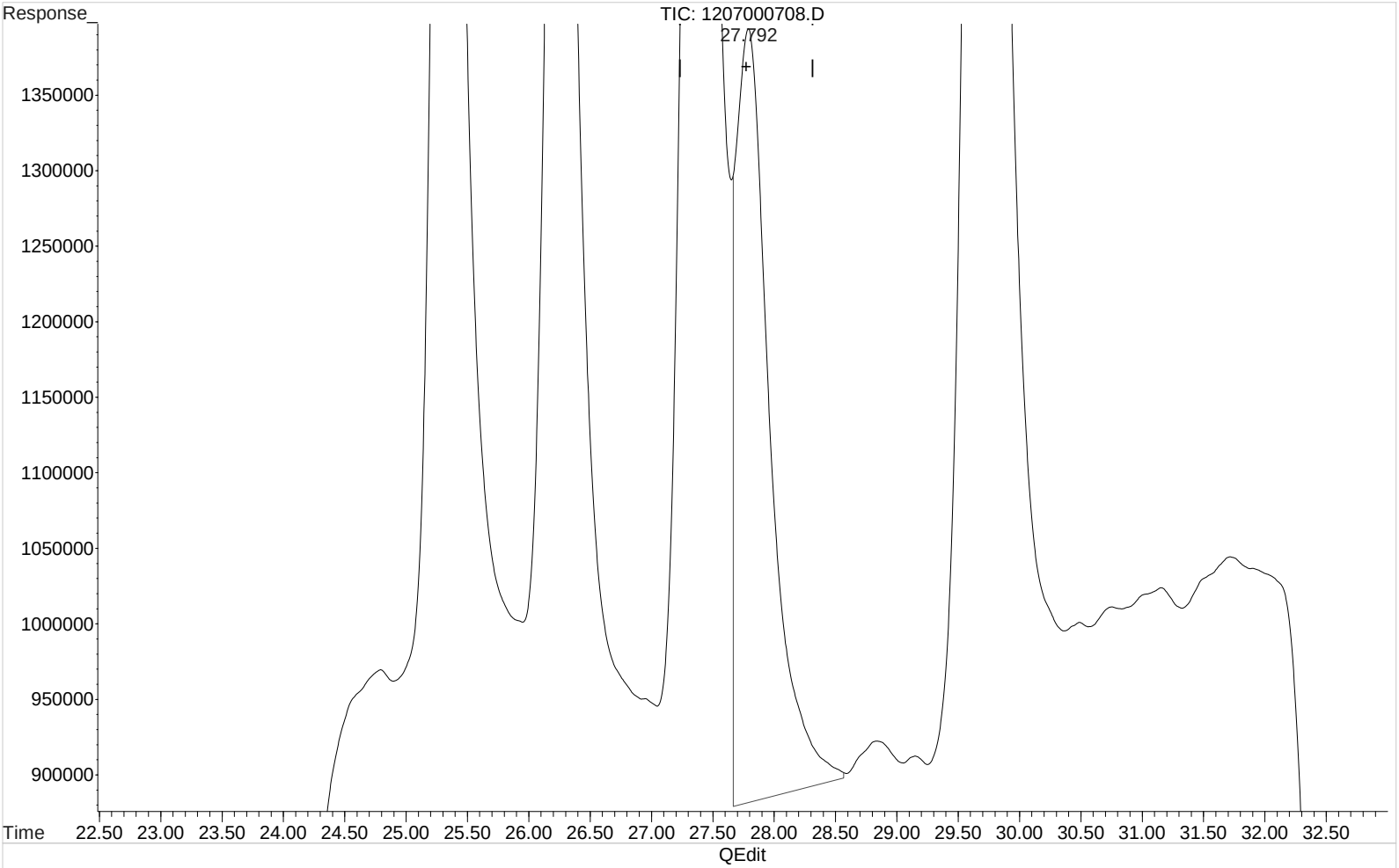


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000708.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:30:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:30:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.792min 480.822 ug/L

response 9831980

Manual Integration:

Before

12/08/16

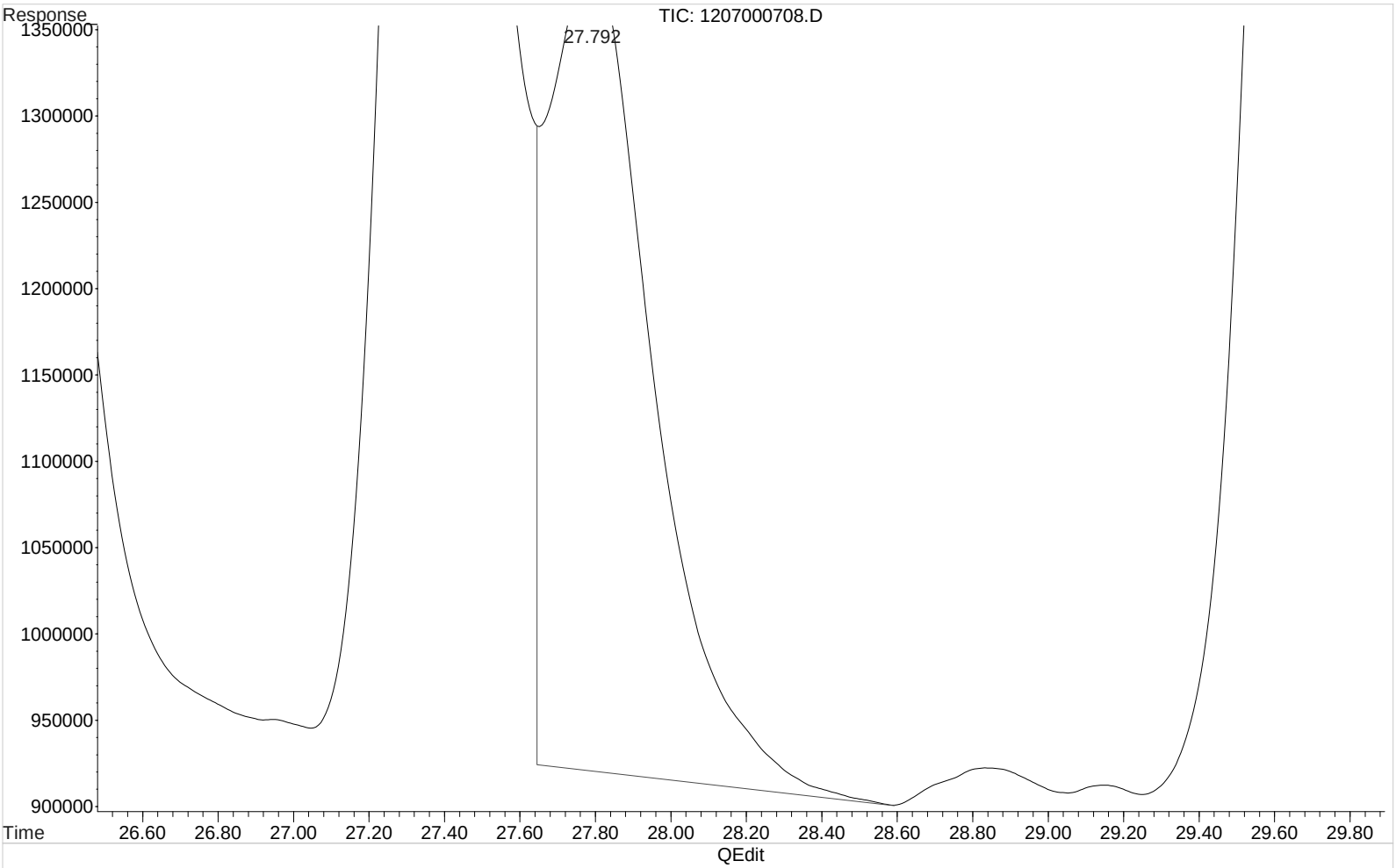
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000708.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:31:41 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:30:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.792min 439.492 ug/L m

response 8986852

Manual Integration:

After

Baseline/Shoulder

12/08/16

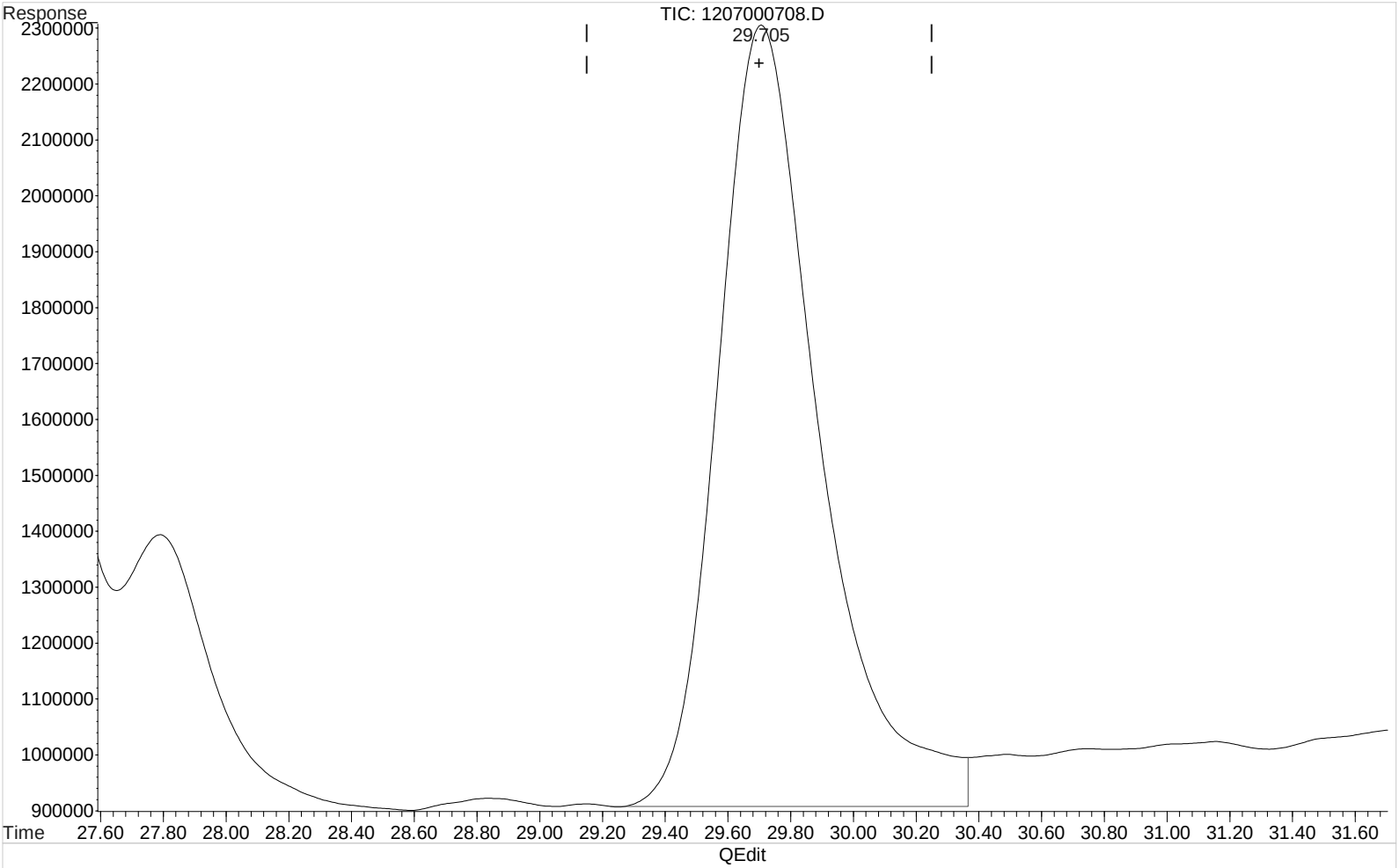
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000708.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:30:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:30:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.705min 527.464 ug/L

response 31443916

Manual Integration:

Before

12/08/16

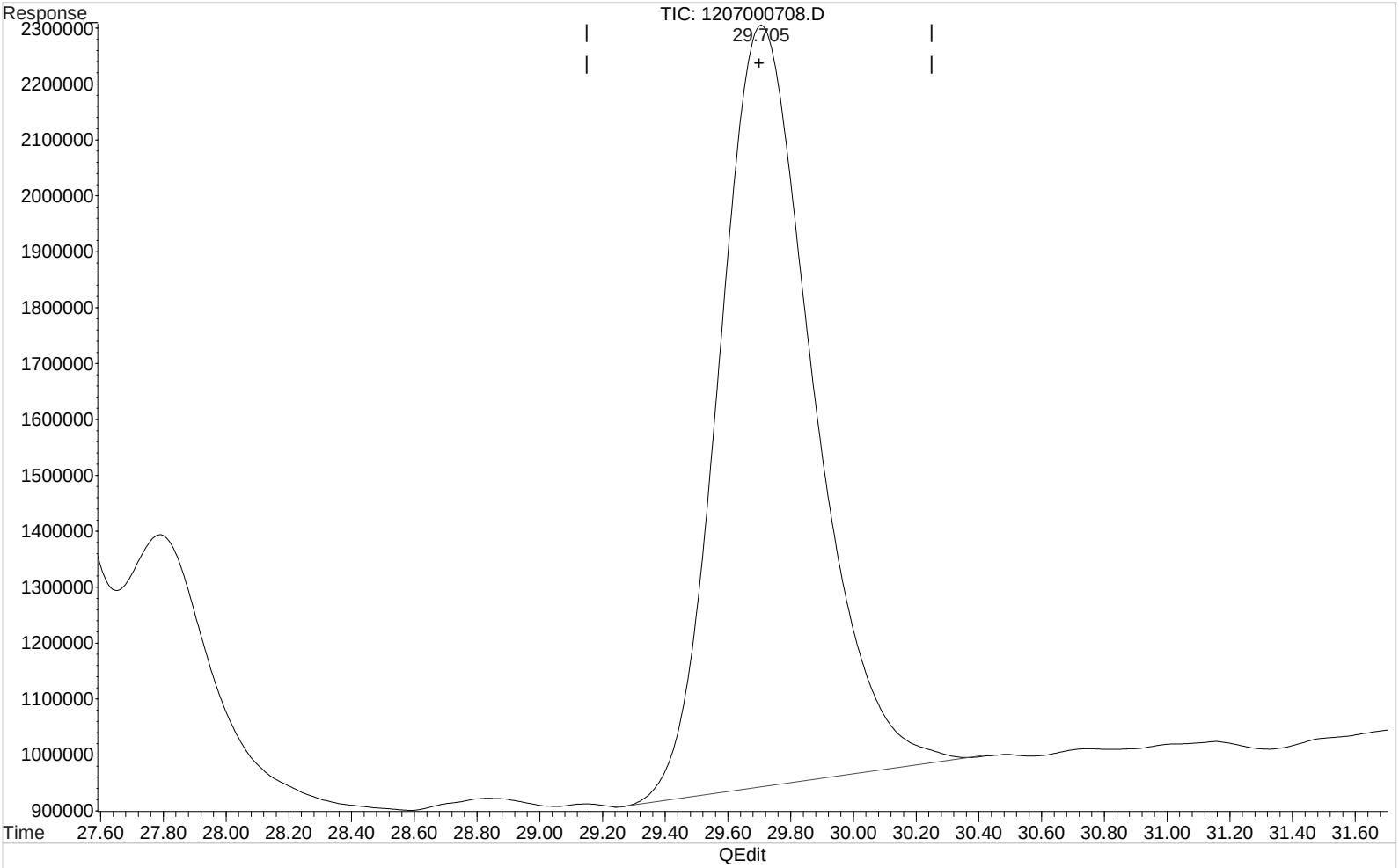
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000708.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:30:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:30:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.705min 479.087 ug/L m

response 28560027

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:33:37 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	29.704	55010487	932.538 ug/L m
Target Compounds				
1) T	Nitroglycerin	16.630	21521854	977.602 ug/L m
2) T	PETN	27.784	18036372	902.302 ug/L m

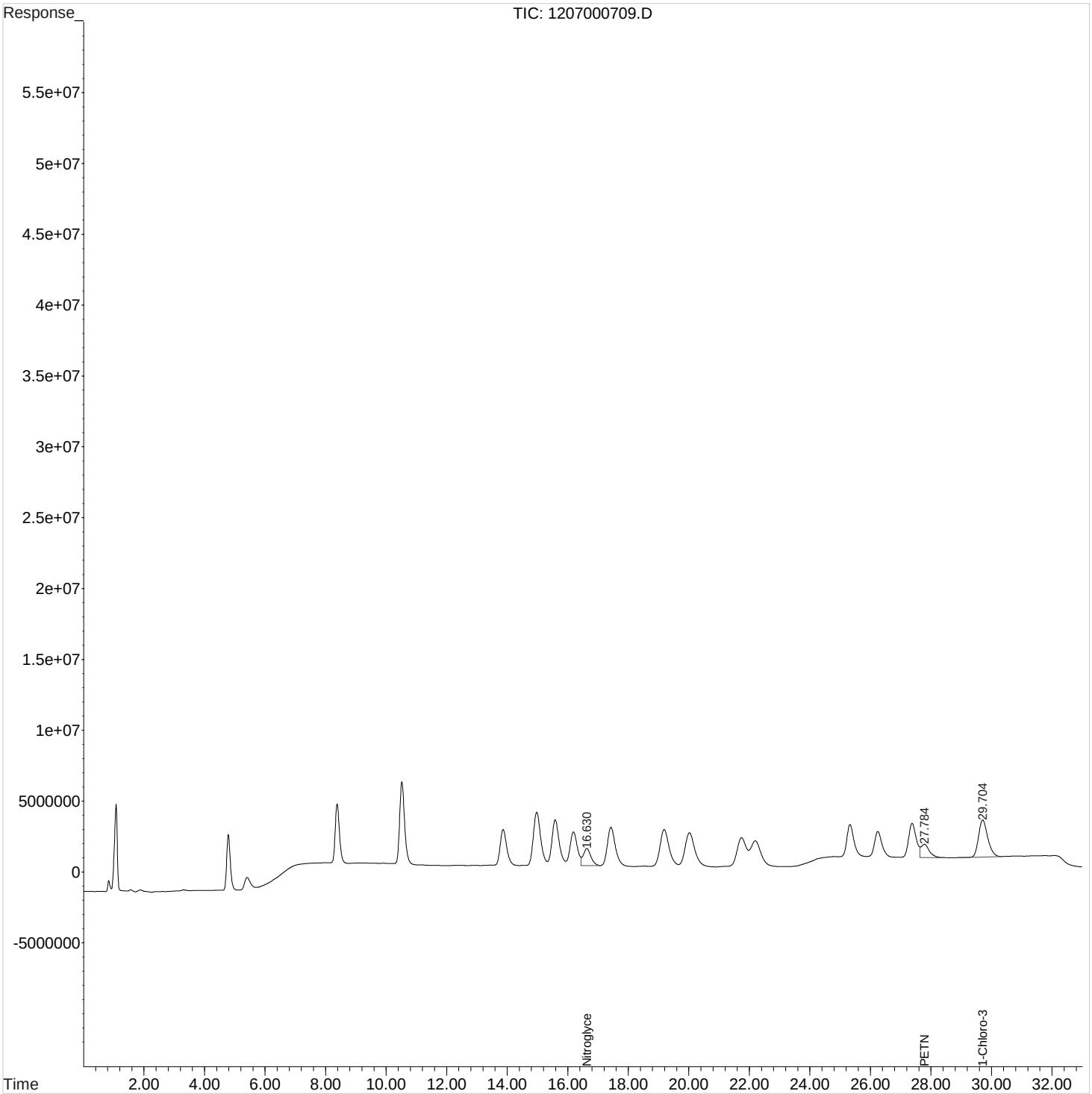
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:33:37 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

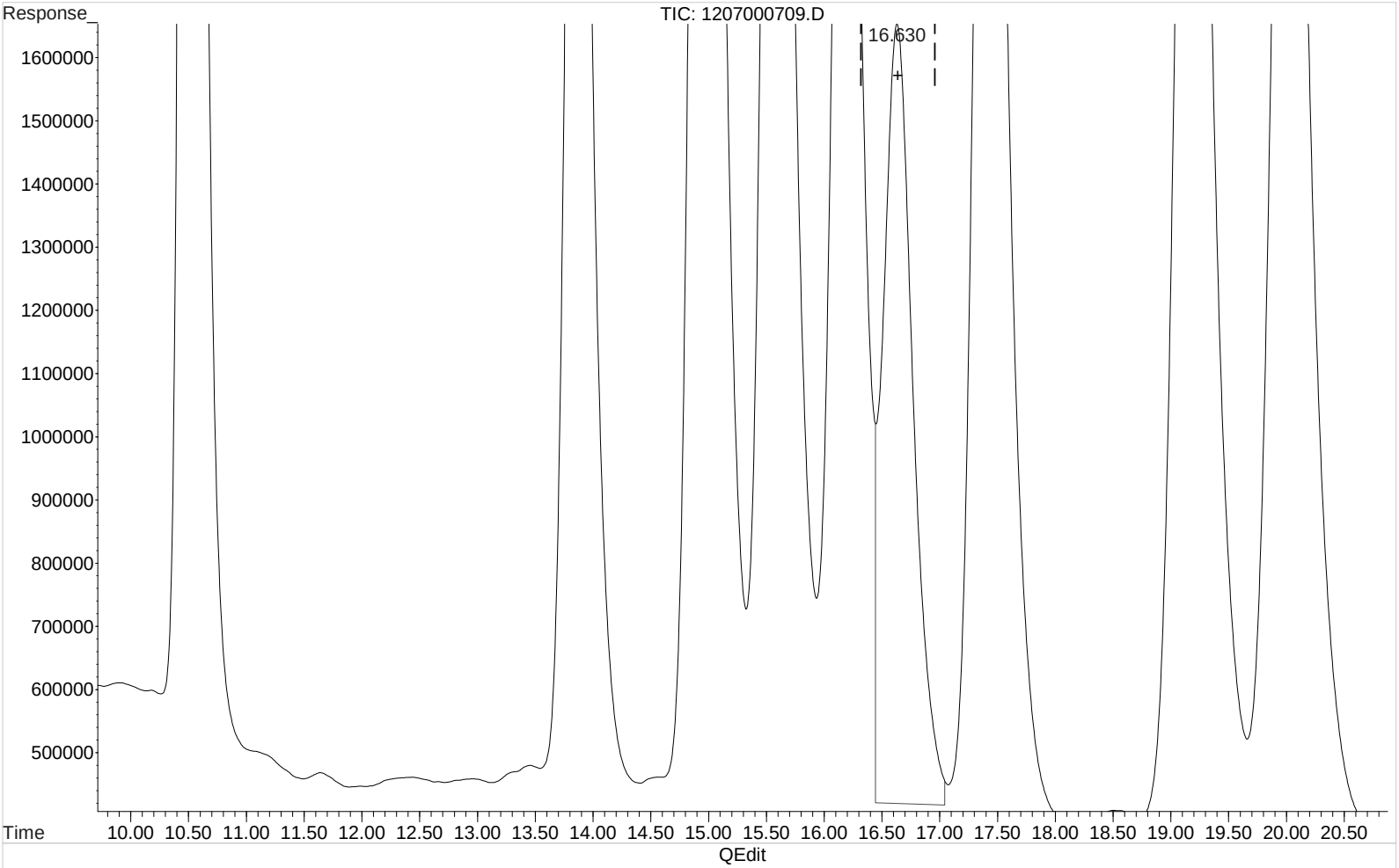


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:32:30 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.630min 1012.917 ug/L

response 22299324

Manual Integration:

Before

12/08/16

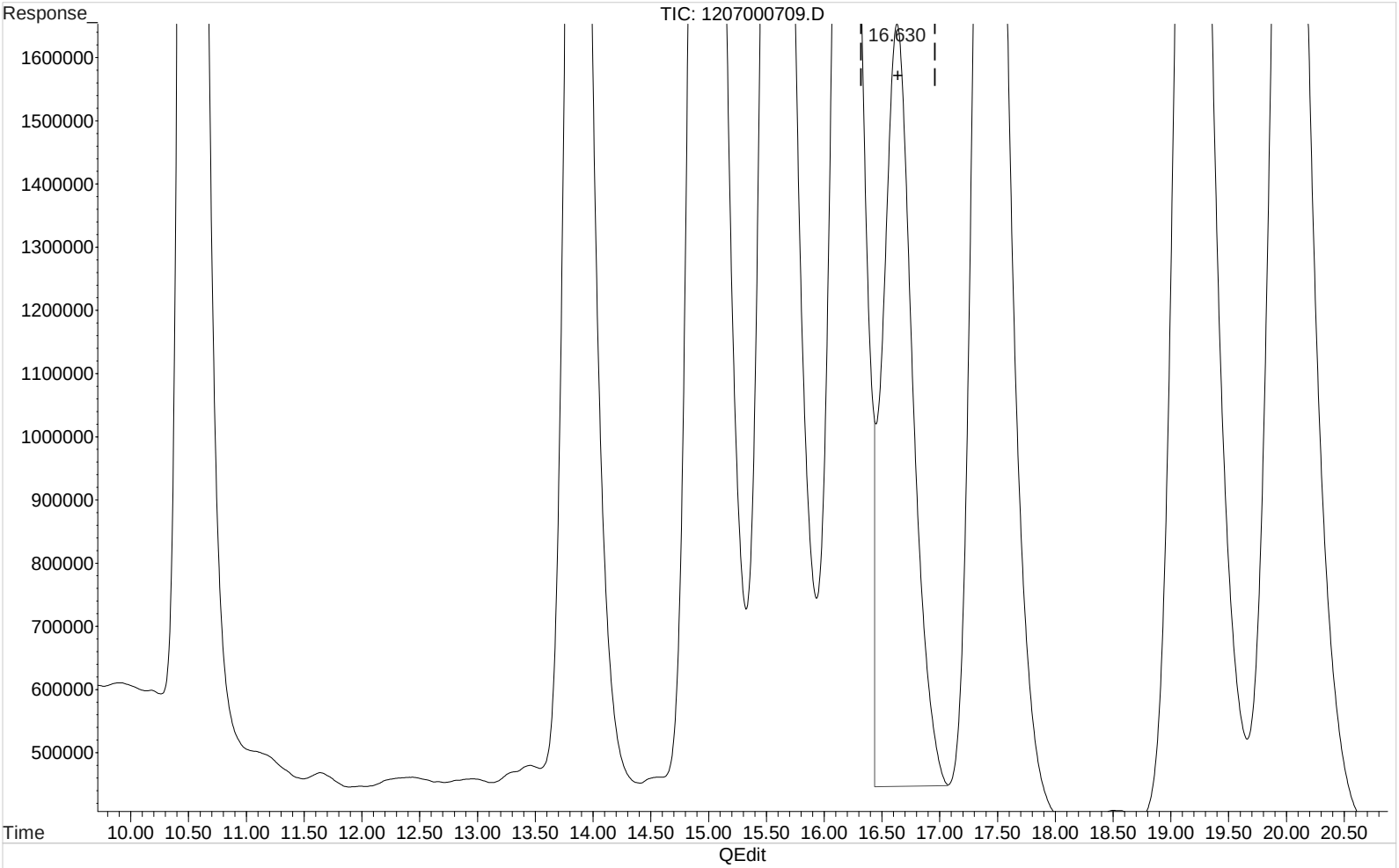
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:32:30 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.630min 977.602 ug/L m

response 21521854

Manual Integration:

After

BLC

12/08/16

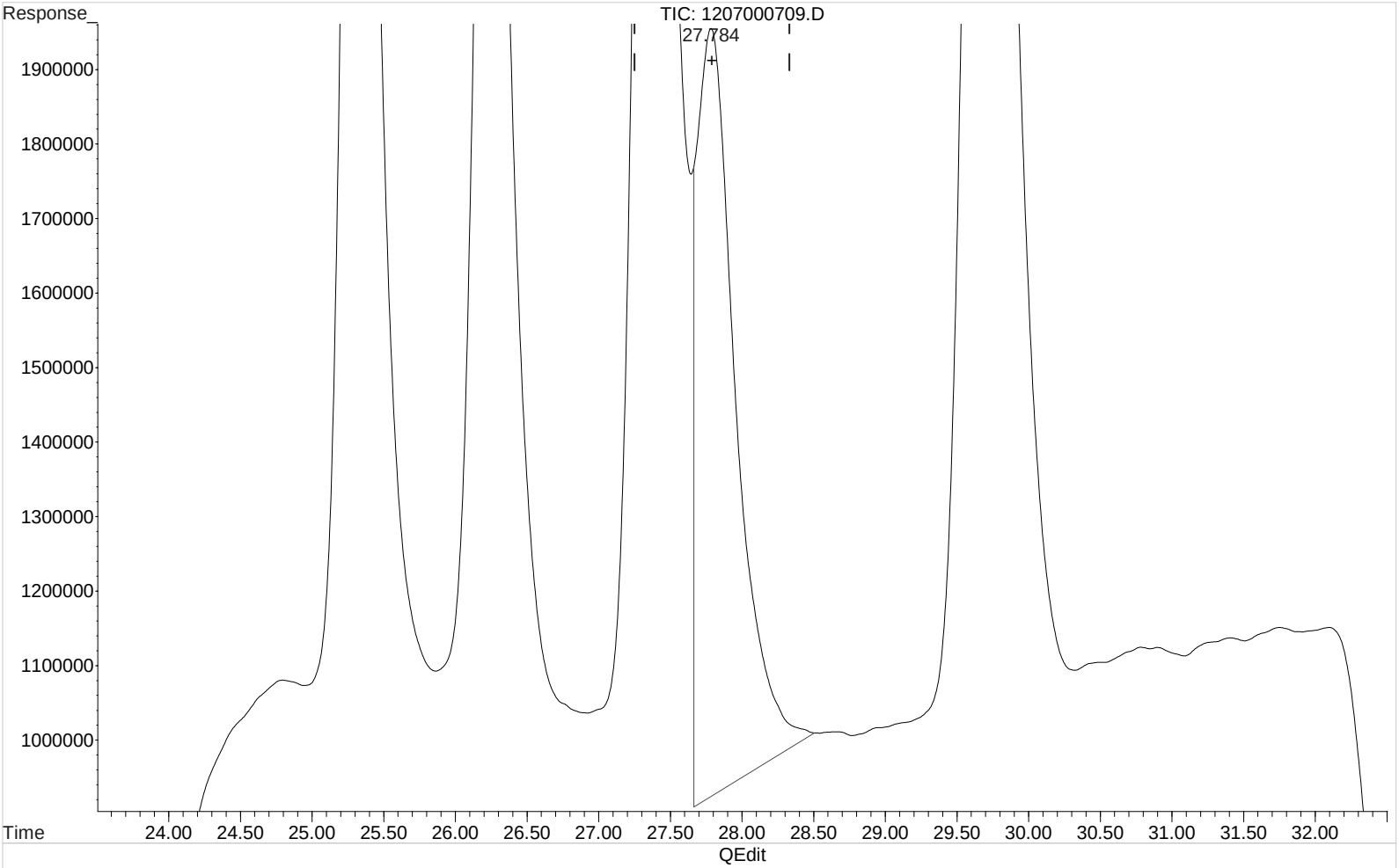
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:32:30 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.784min 975.465 ug/L

response 19498853

Manual Integration:

Before

12/08/16

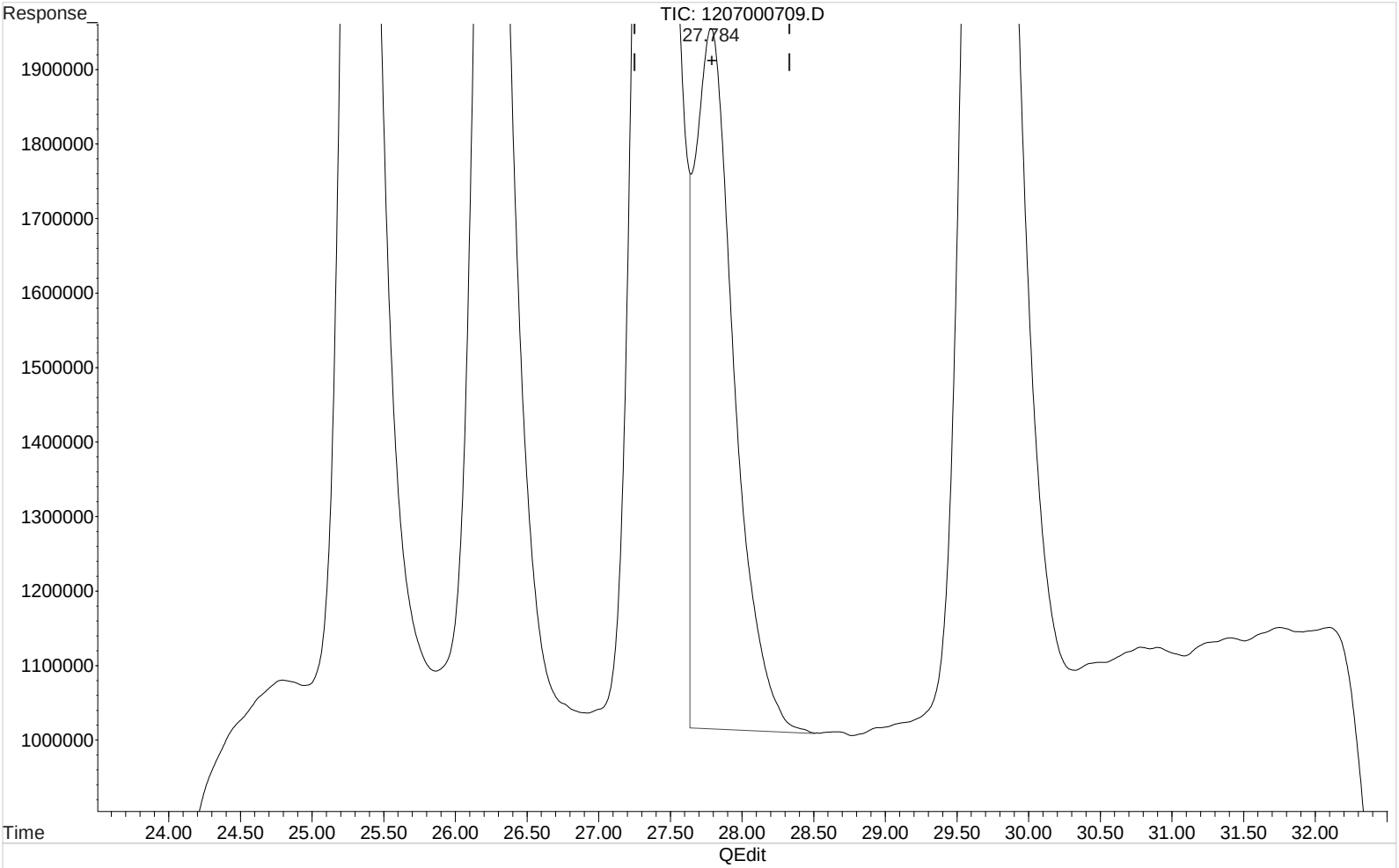
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:32:30 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.784min 902.302 ug/L m

response 18036372

Manual Integration:

After

BLC

12/08/16

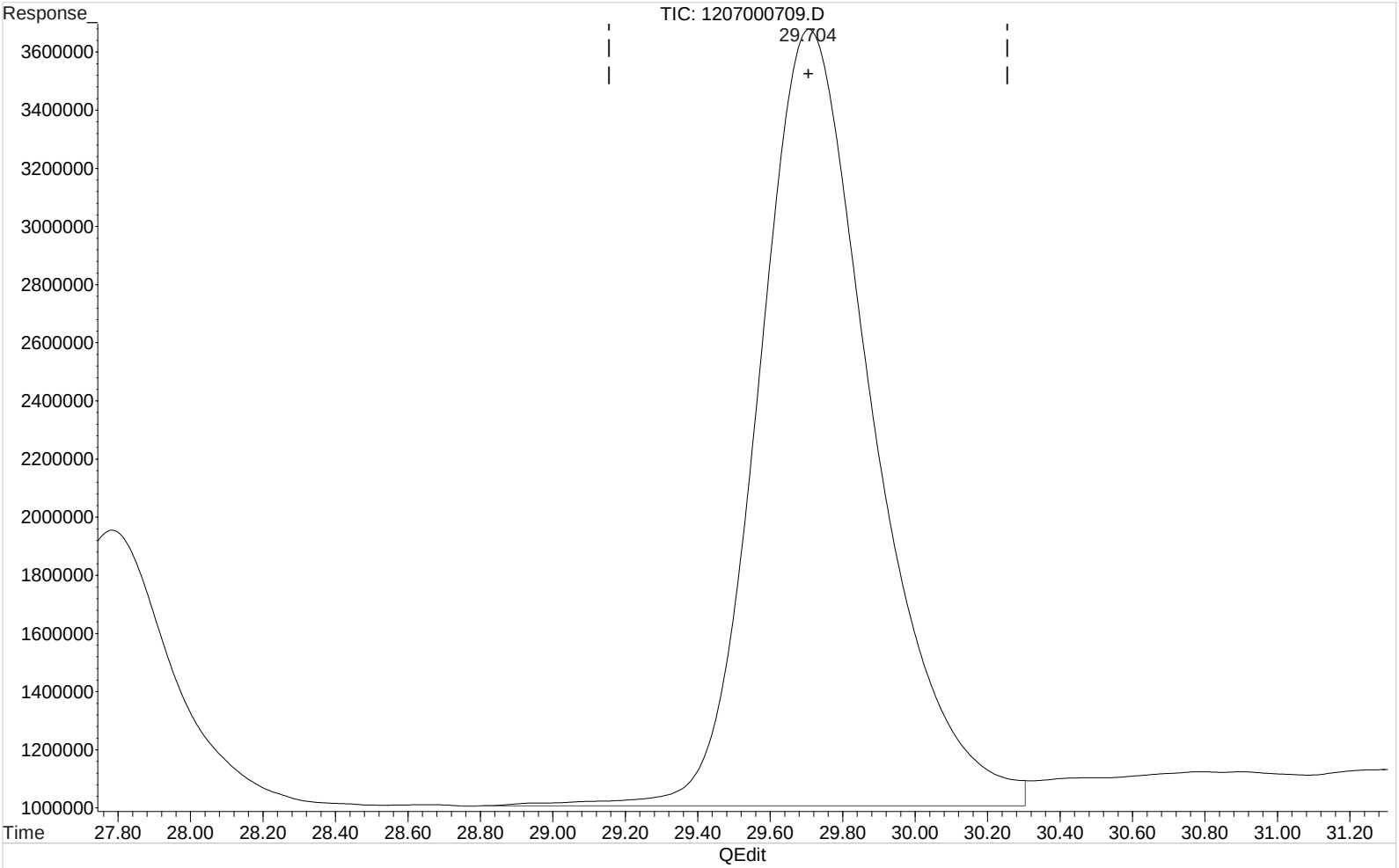
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:32:30 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.704min 995.581 ug/L

response 58729422

Manual Integration:

Before

12/08/16

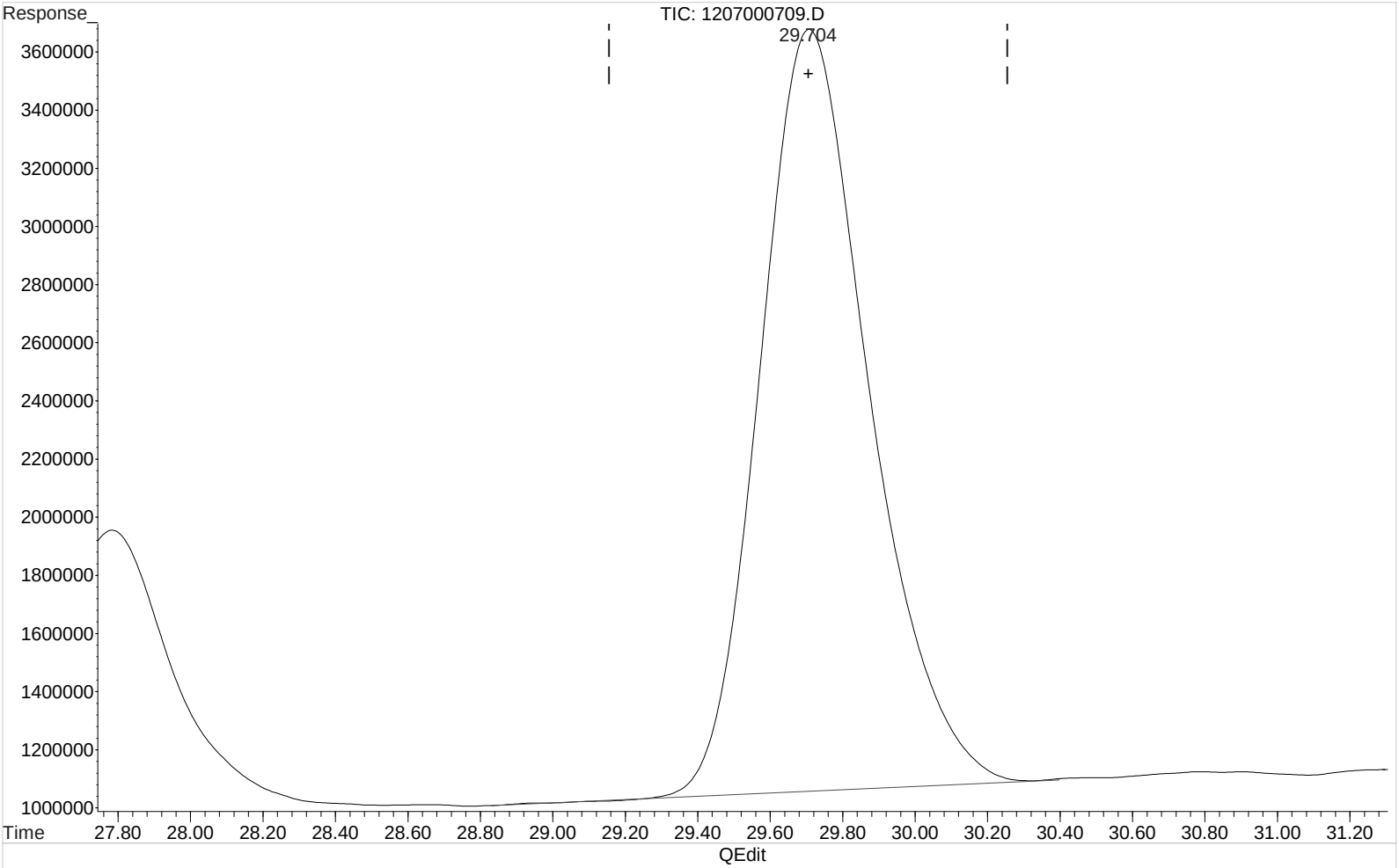
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:32:30 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

29.704min 932.538 ug/L m

response 55010487

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:49 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.700	112386573	1931.234	ug/L	m
Target Compounds						
1) T	Nitroglycerin	16.647	43206000	1971.406	ug/L	m
2) T	PETN	27.787	35607998	1816.855	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)

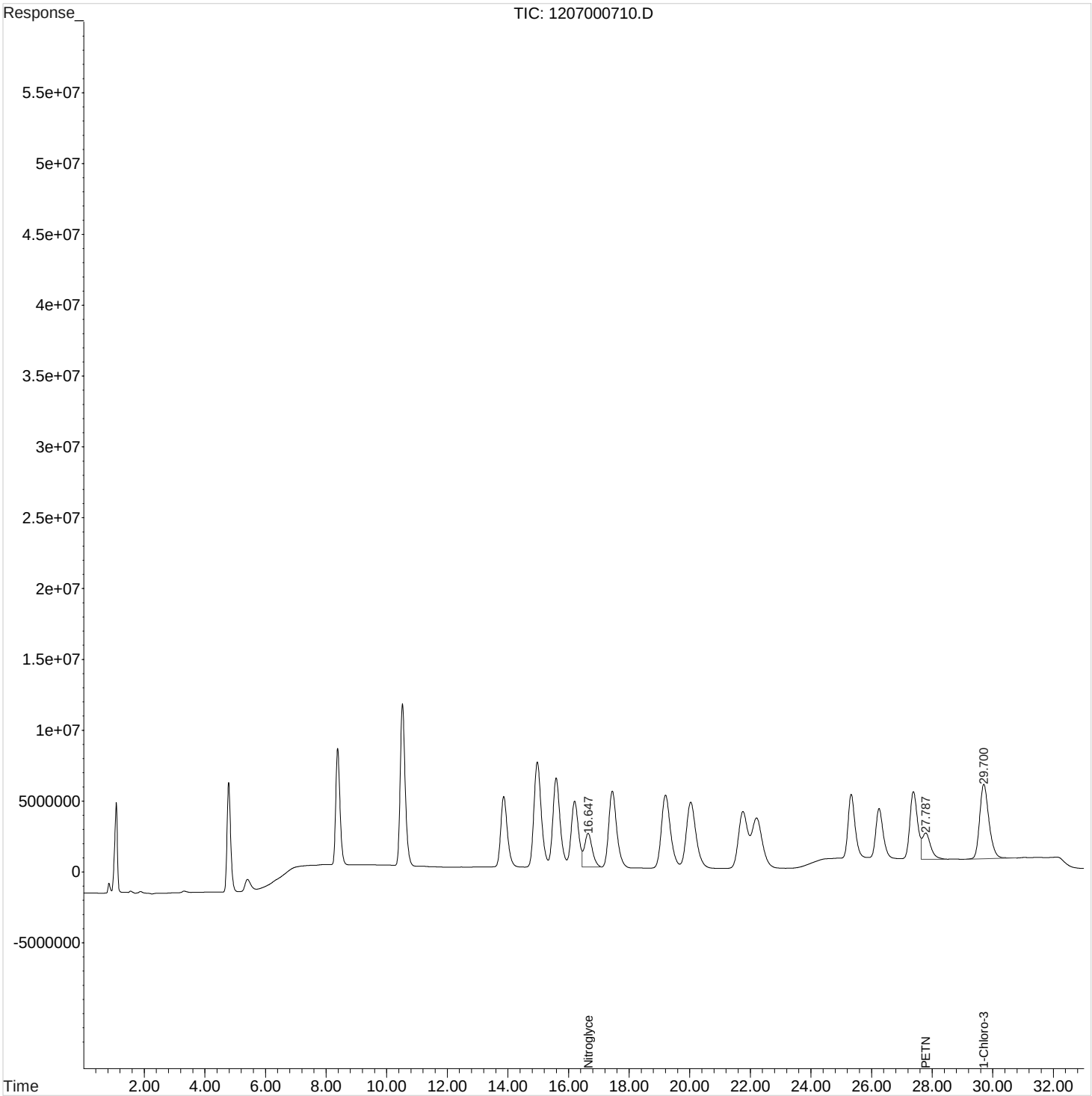
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:49 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

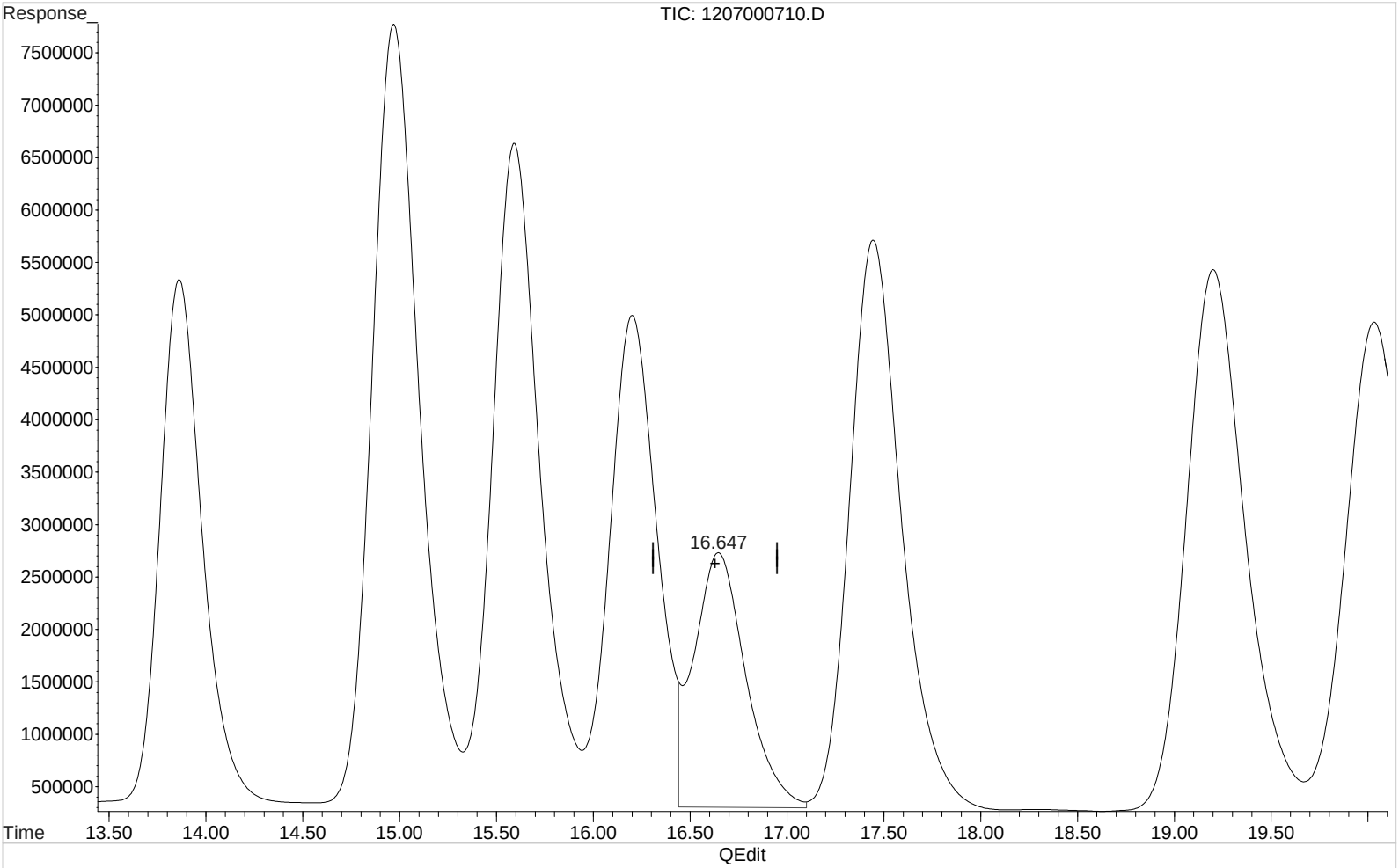


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:03 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.647min 2072.566 ug/L

response 45423047

Manual Integration:

Before

12/08/16

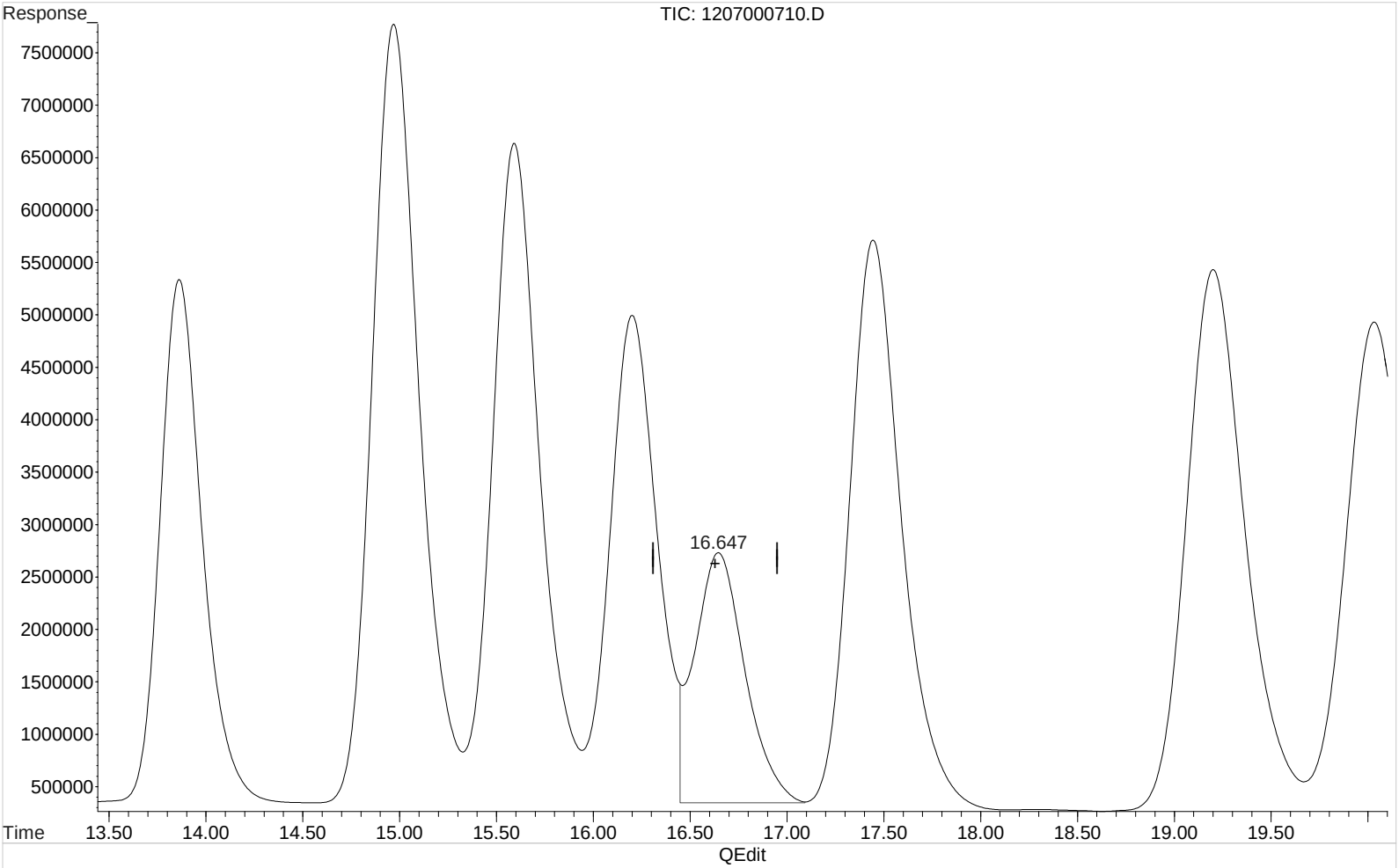
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:03 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.647min 1971.406 ug/L m

response 43206000

Manual Integration:

After

BLC

12/08/16

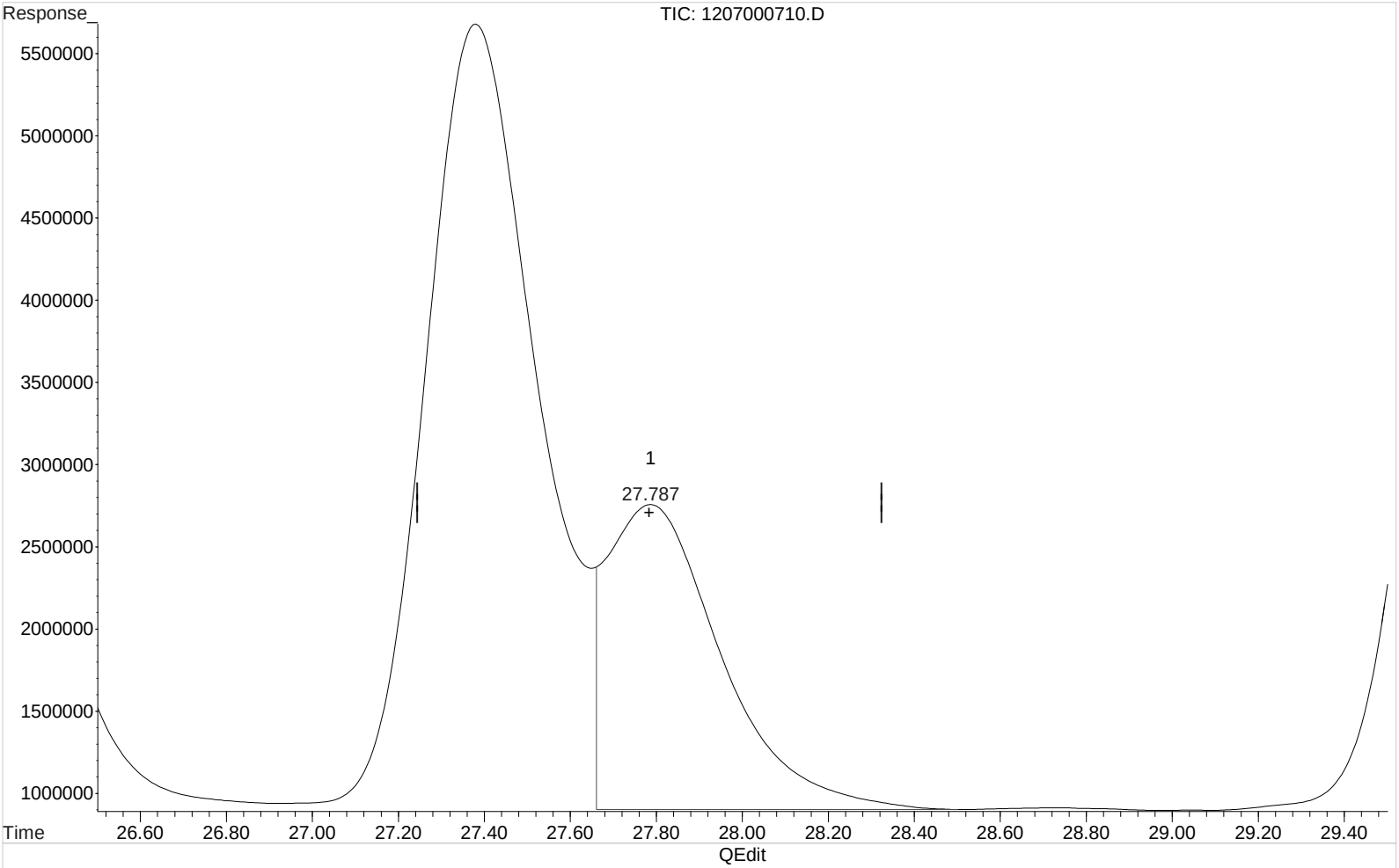
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:03 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.787min 1727.074 ug/L

response 33848411

Manual Integration:

Before

12/08/16

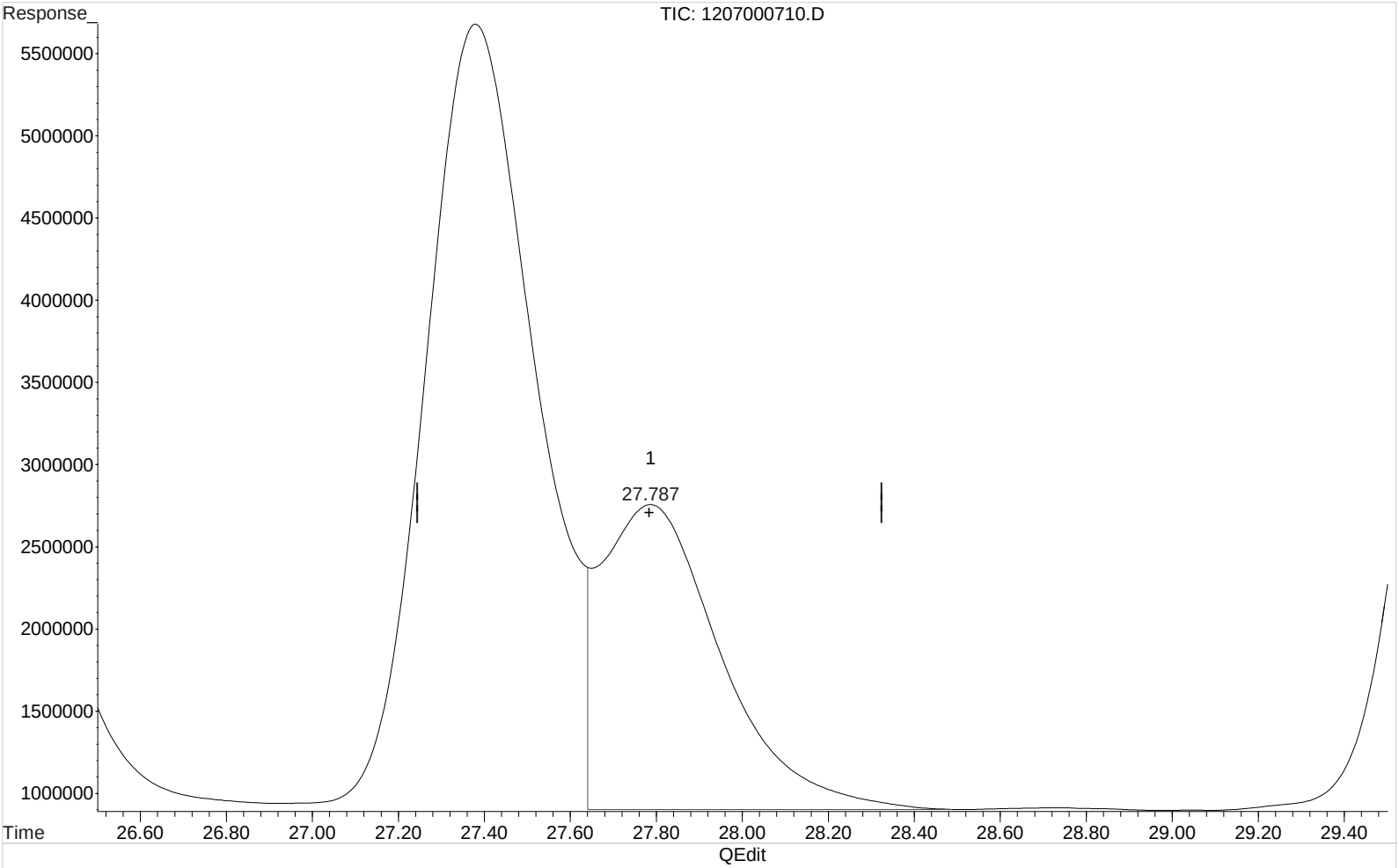
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:03 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.787min 1816.855 ug/L m

response 35607998

Manual Integration:

After

BLC

12/08/16

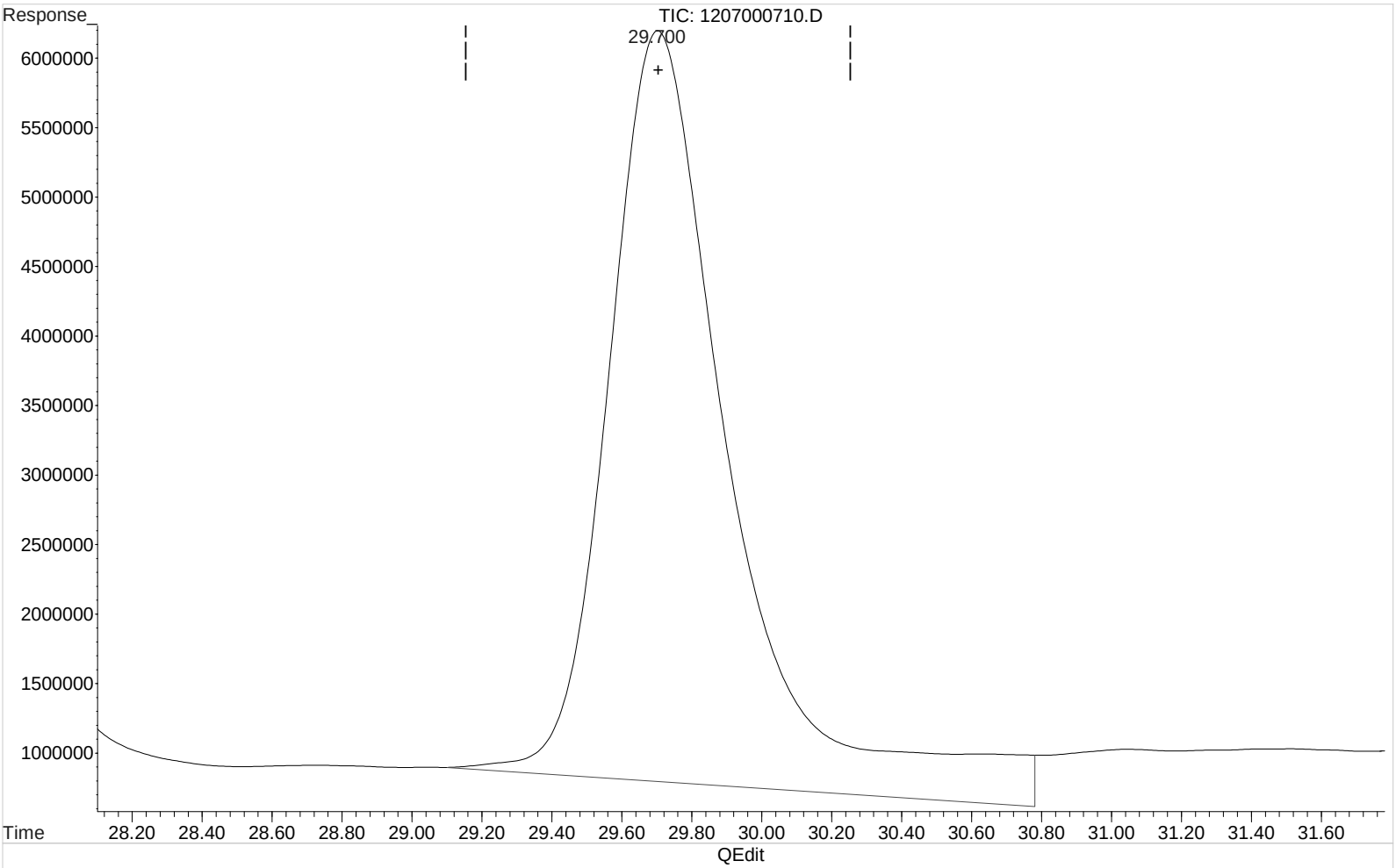
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:03 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

29.700min 2259.280 ug/L

response 131476903

Manual Integration:

Before

12/08/16

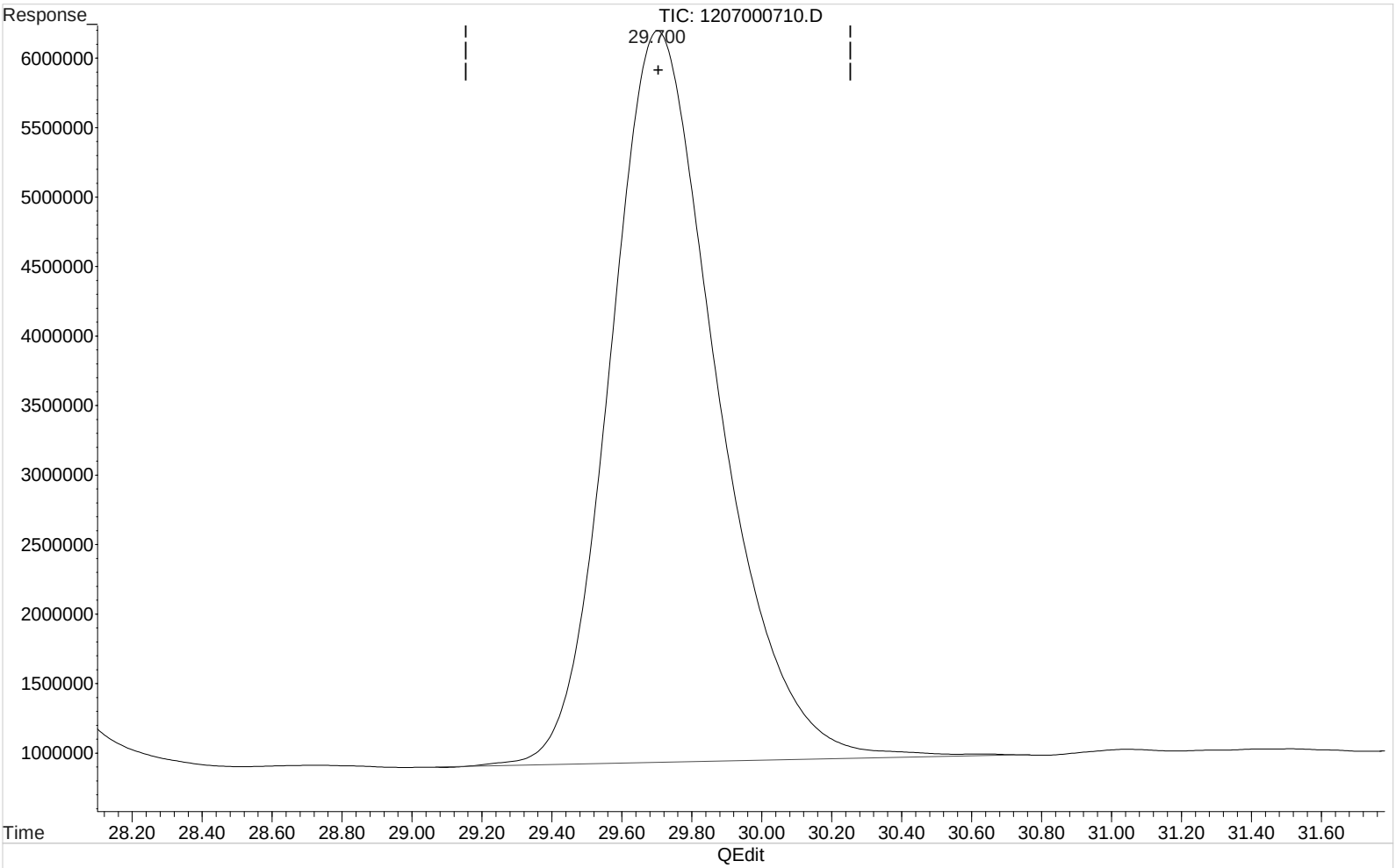
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:03 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

29.700min 1931.234 ug/L m

response 112386573

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:08:50 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.688	288614109	4988.087	ug/L	m
Target Compounds						
1) T	Nitroglycerin	16.621	108352662	4955.731	ug/L	m
2) T	PETN	27.781	89947543	4660.595	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)

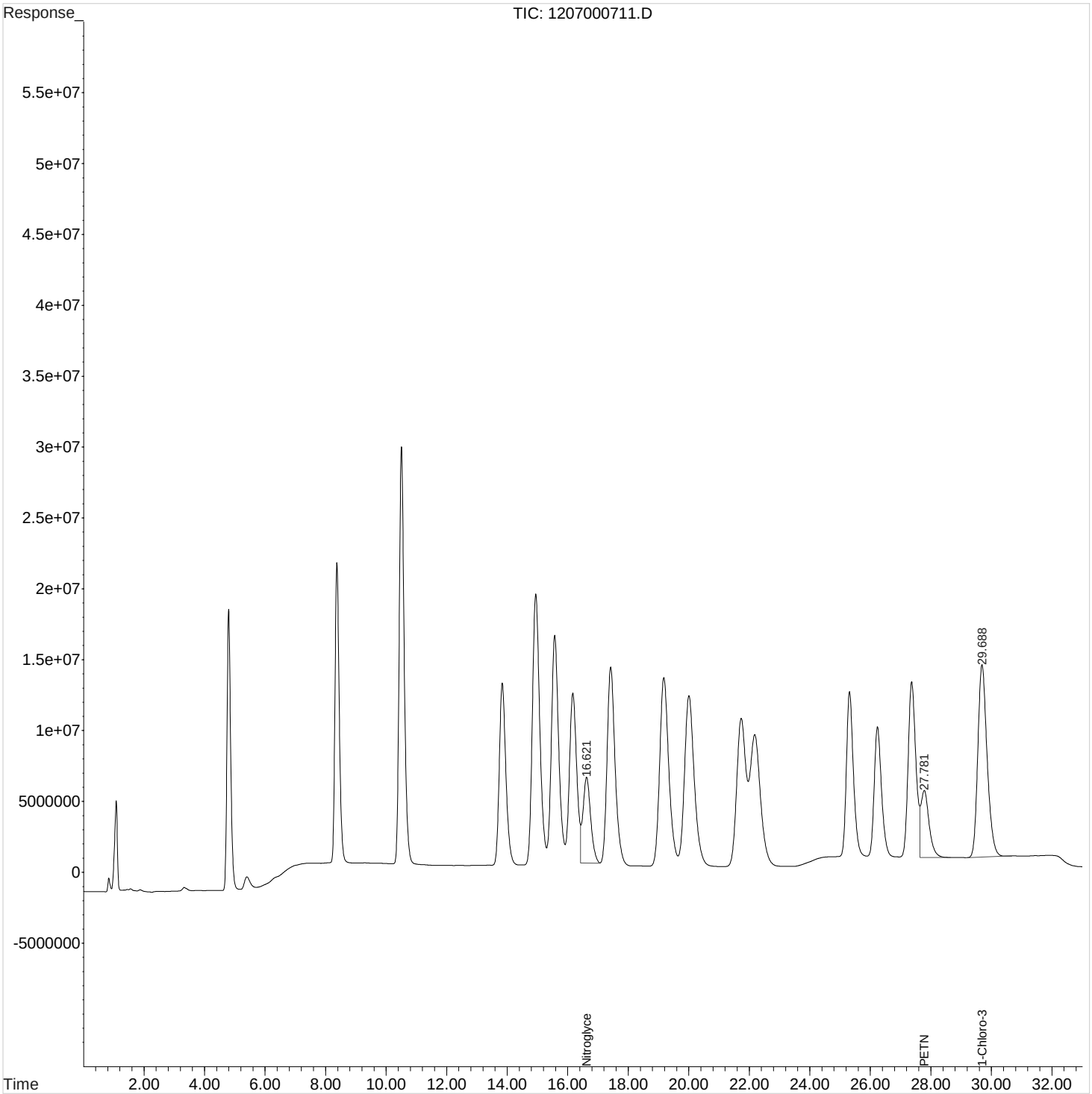
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:08:50 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

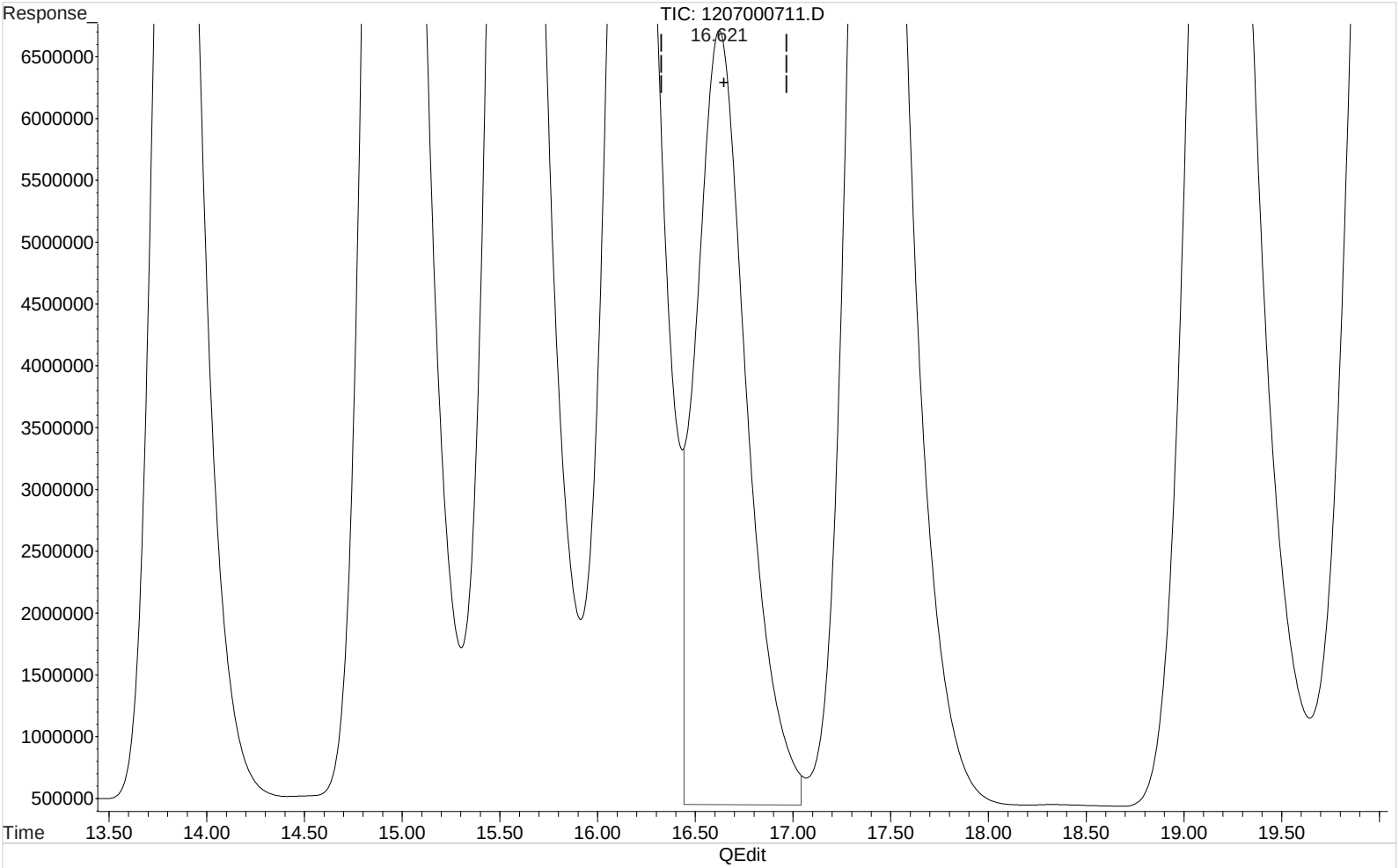


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:35:15 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.621min 5145.490 ug/L

response 112501565

Manual Integration:

Before

12/08/16

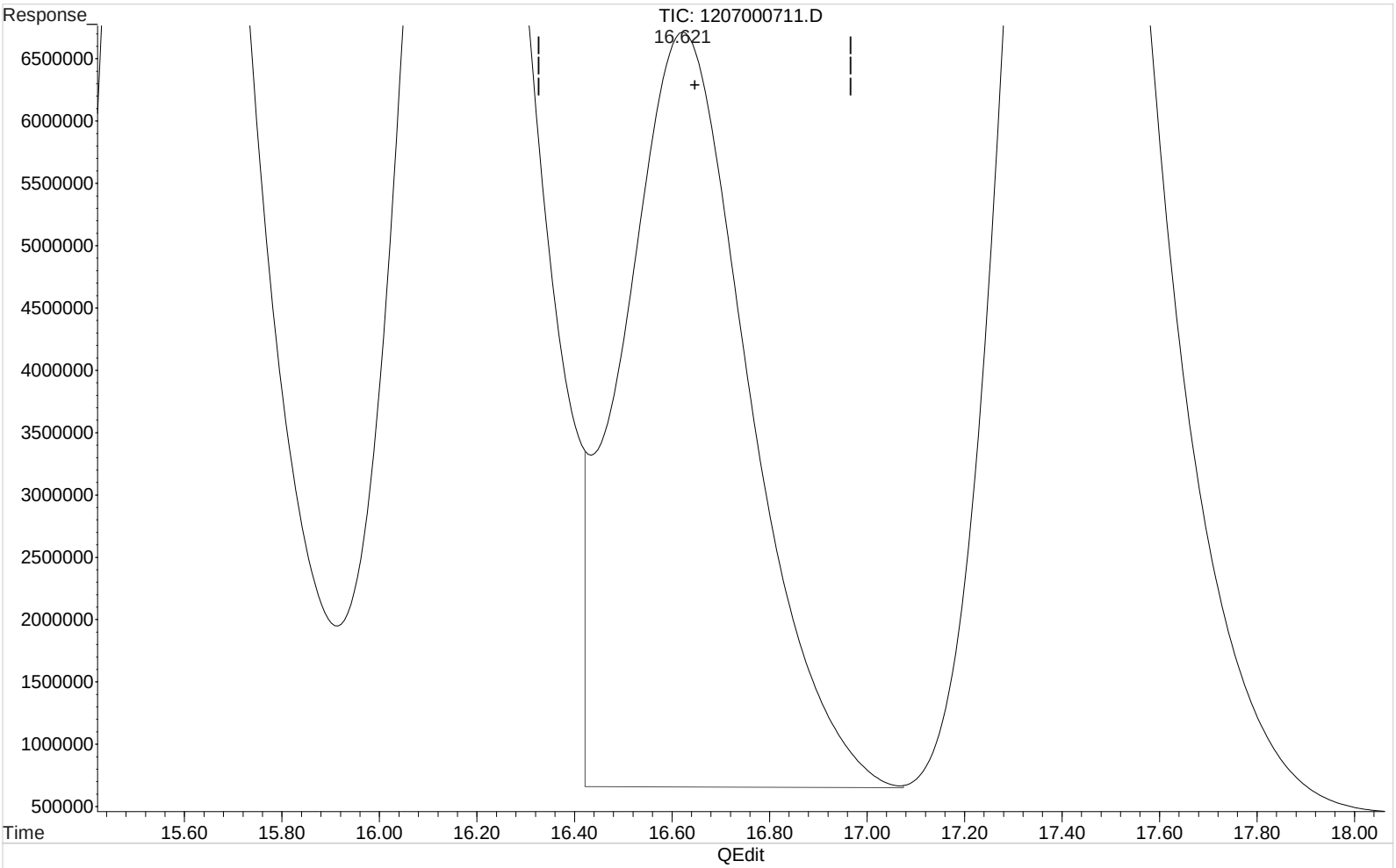
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:36:52 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.621min 4955.731 ug/L m

response 108352662

Manual Integration:

After

Baseline/Shoulder

12/08/16

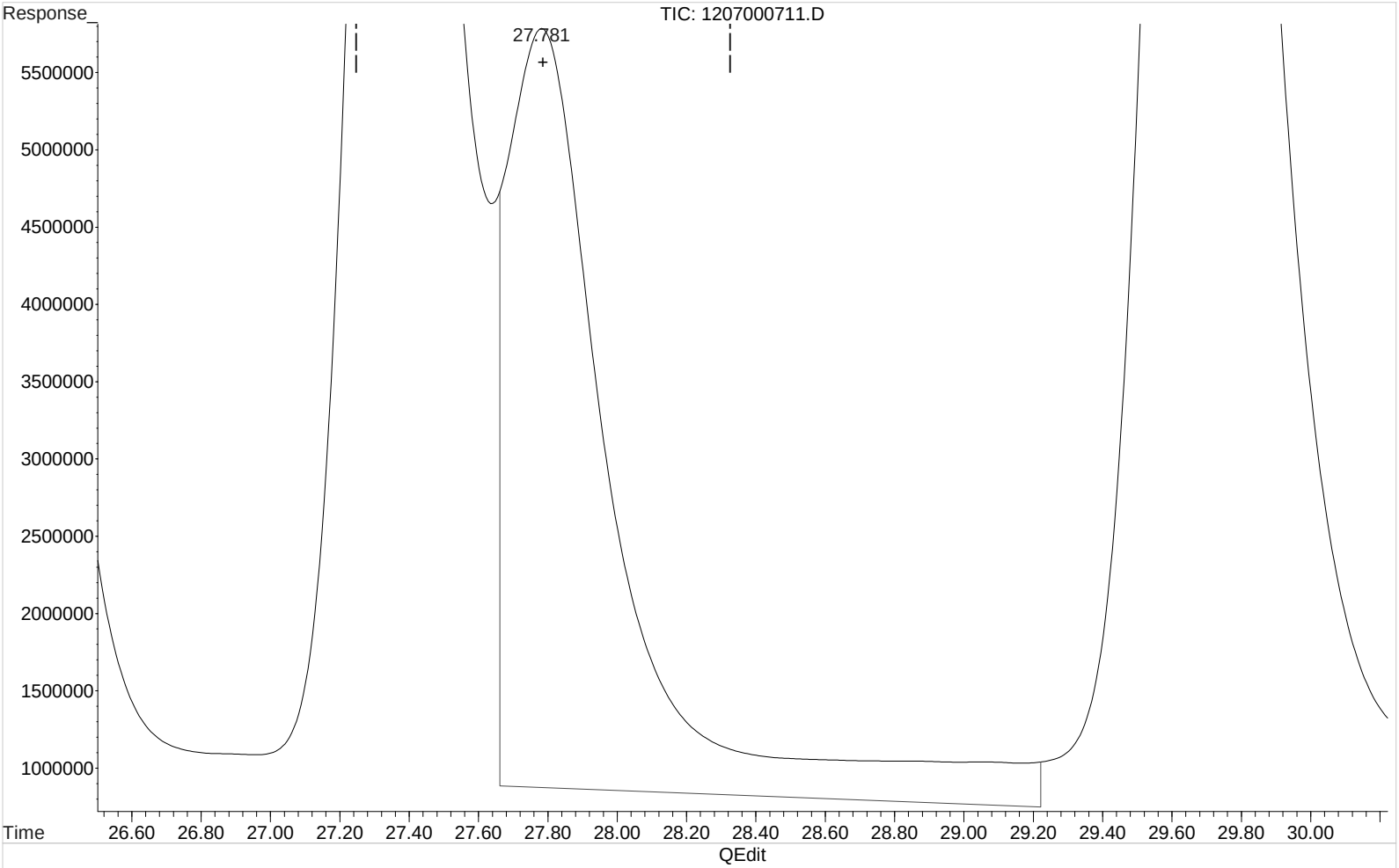
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:35:15 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.781min 5440.778 ug/L

response 105004749

Manual Integration:

Before

12/08/16

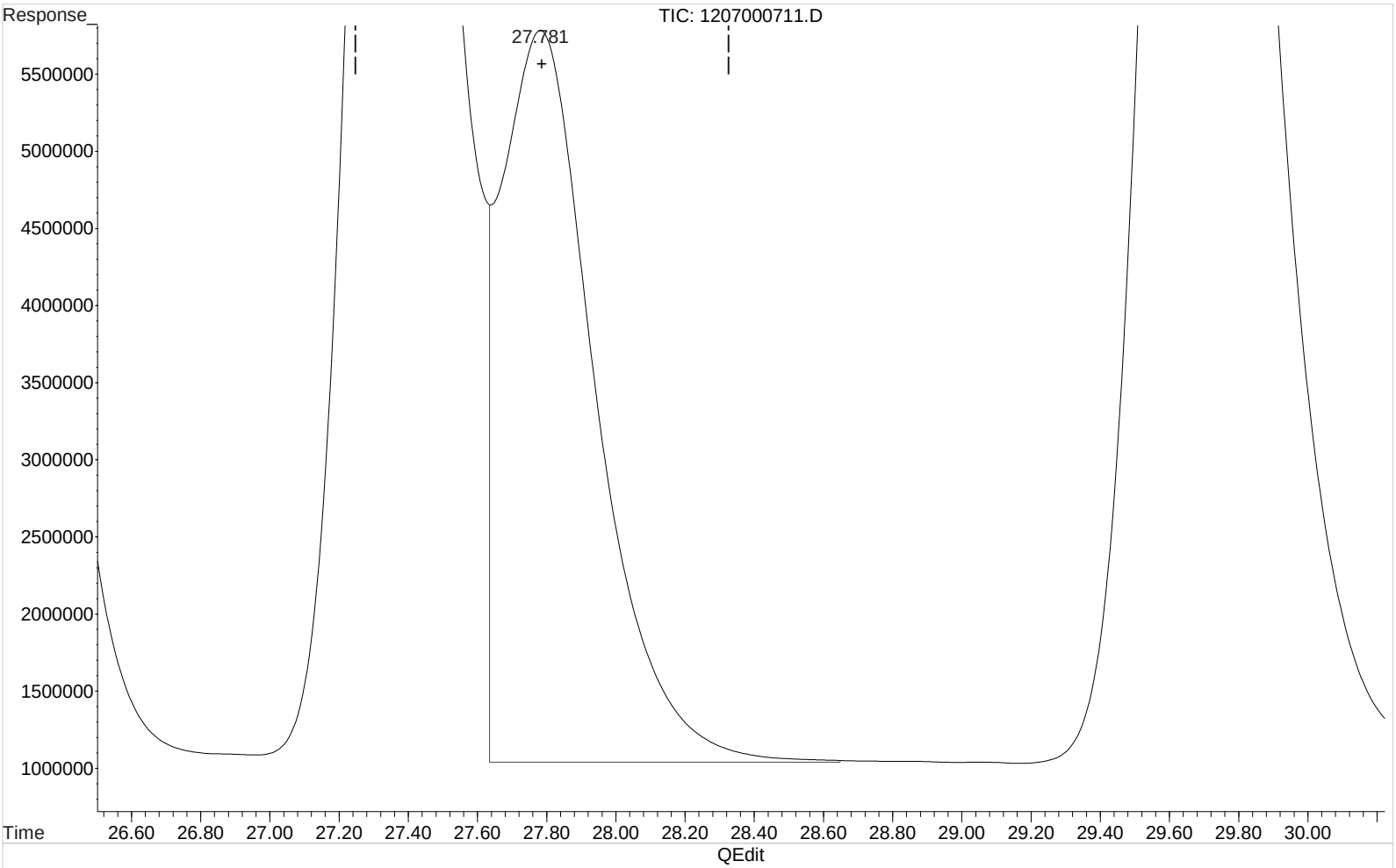
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:35:15 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.781min 4660.595 ug/L m

response 89947543

Manual Integration:

After

BLC

12/08/16

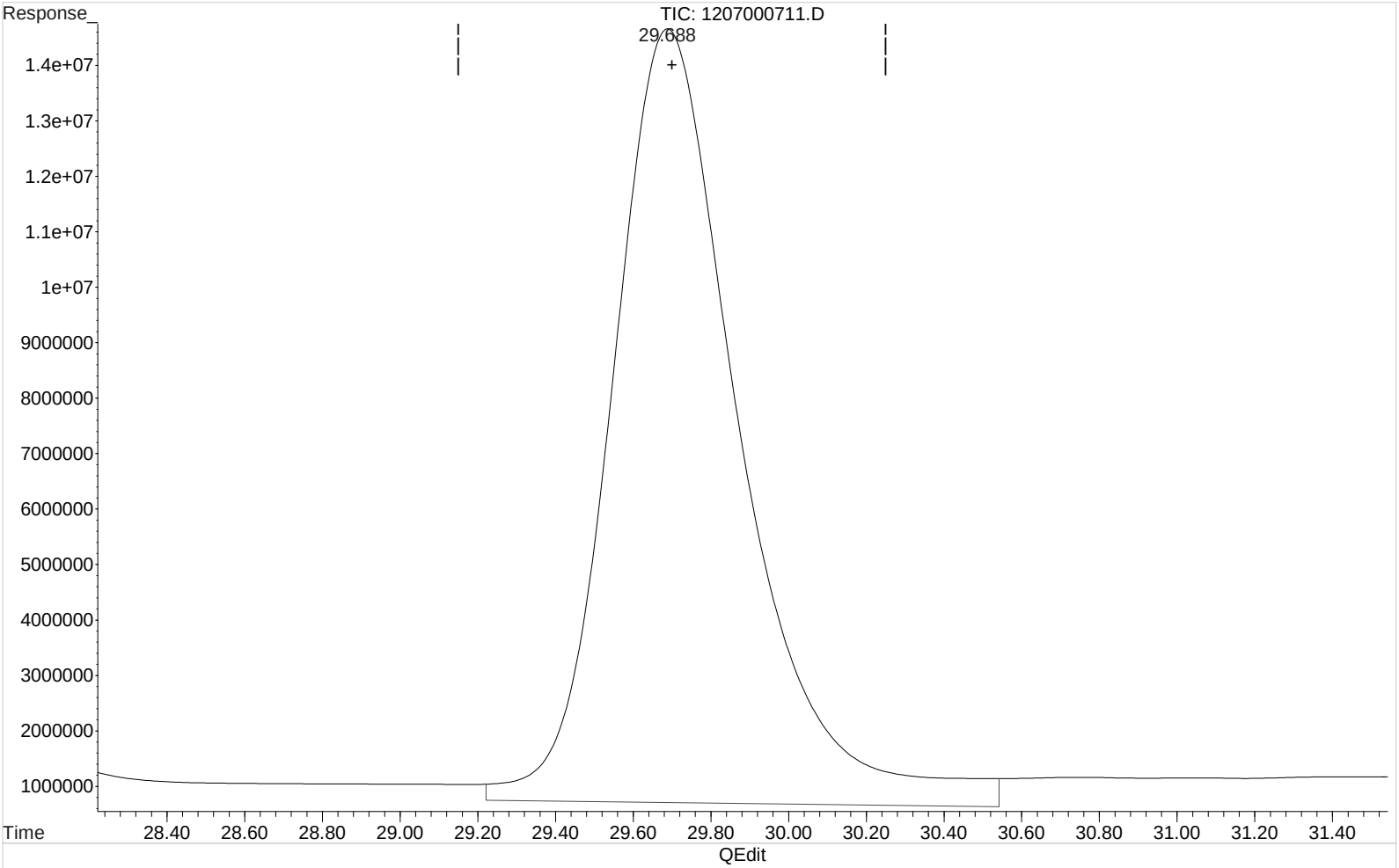
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:35:15 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.688min 5541.212 ug/L

response 320618313

Manual Integration:

Before

12/08/16

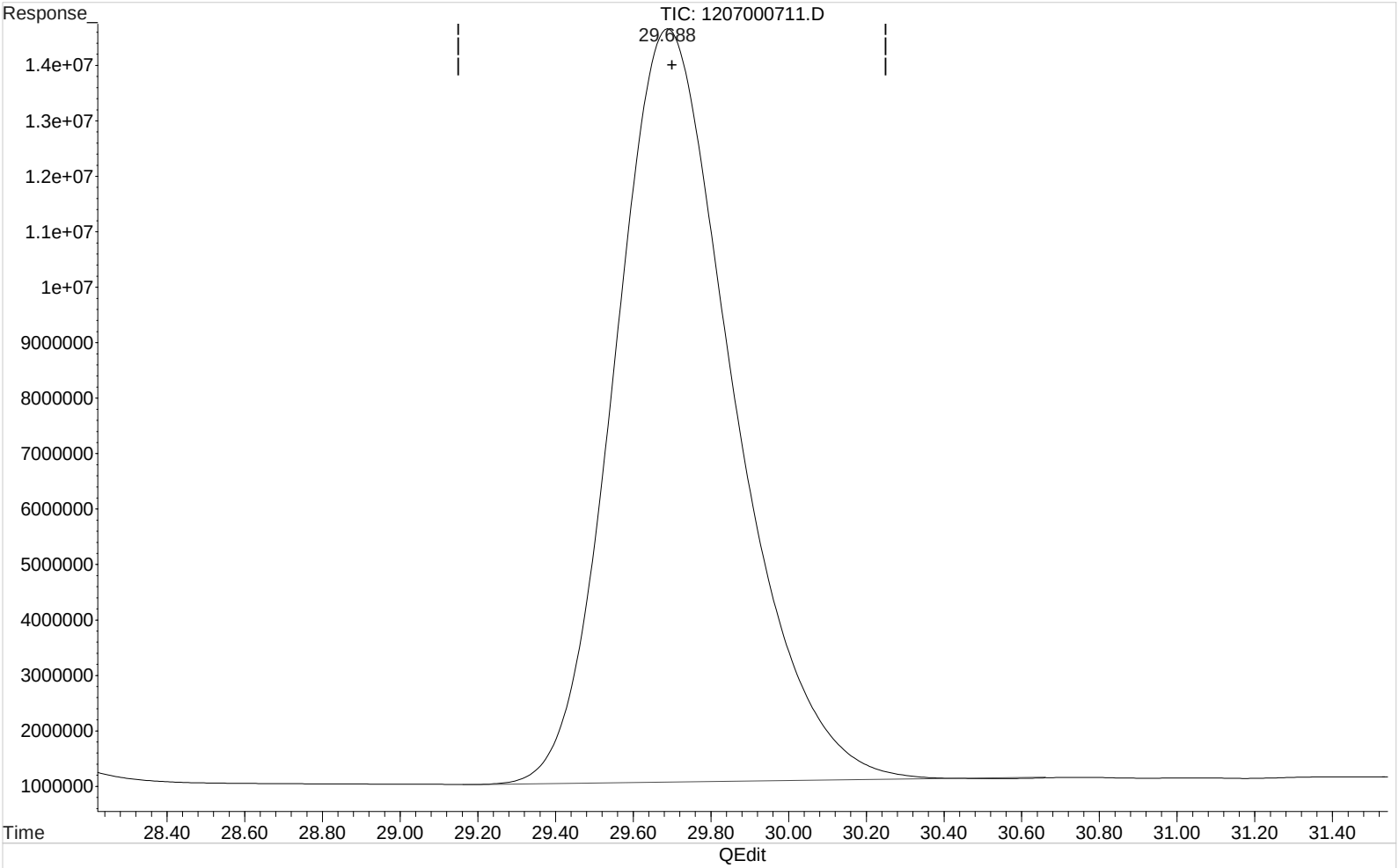
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:35:15 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

29.688min 4988.087 ug/L m

response 288614109

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000712.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:09:08 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:37:03 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.704	495774702	8571.338	ug/L	
Target Compounds						
1) T	Nitroglycerin	16.638	204600197	9302.543	ug/L	m
2) T	PETN	27.791	173278128	9066.254	ug/L	m

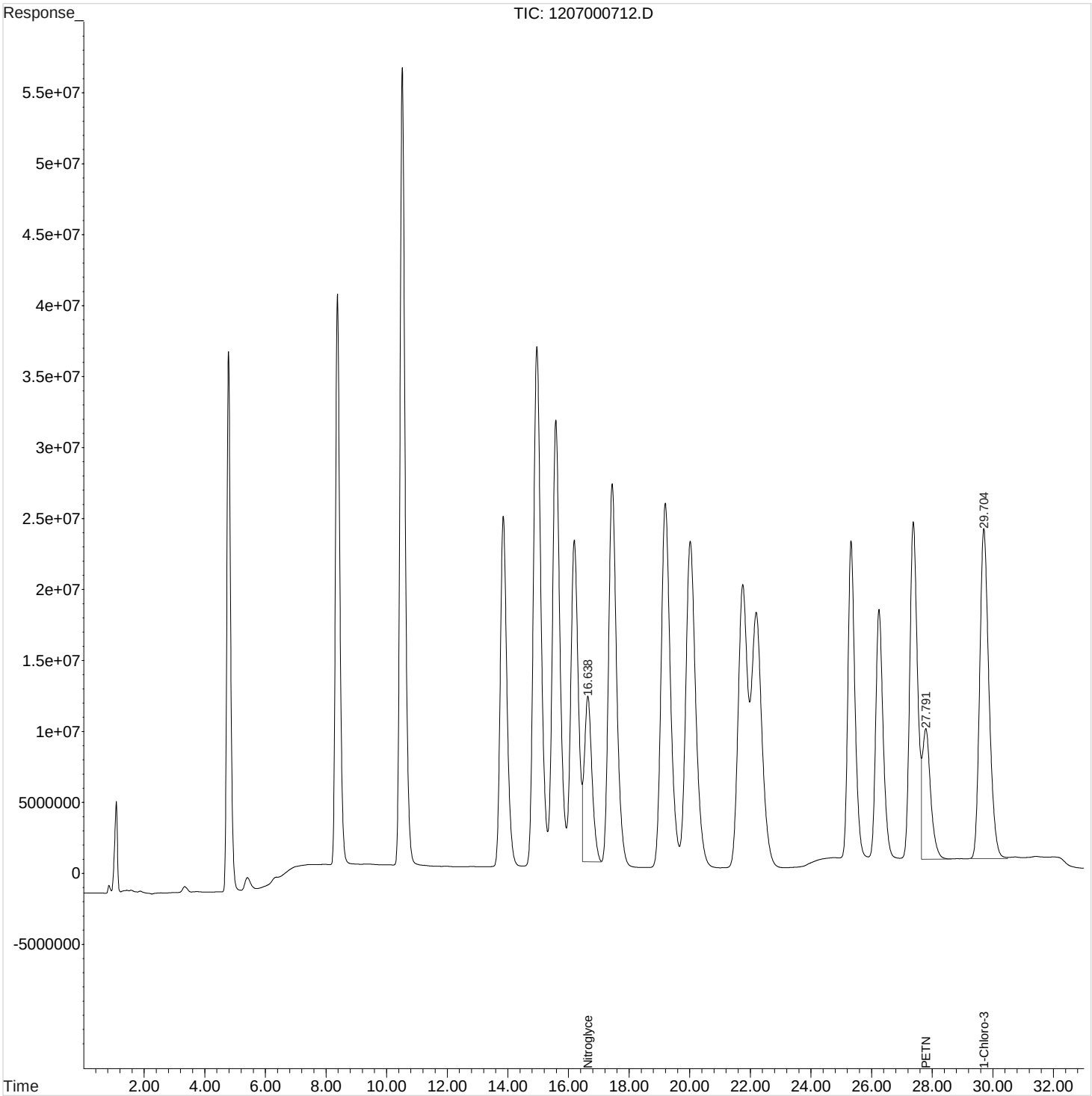
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000712.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:09:08 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:37:03 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

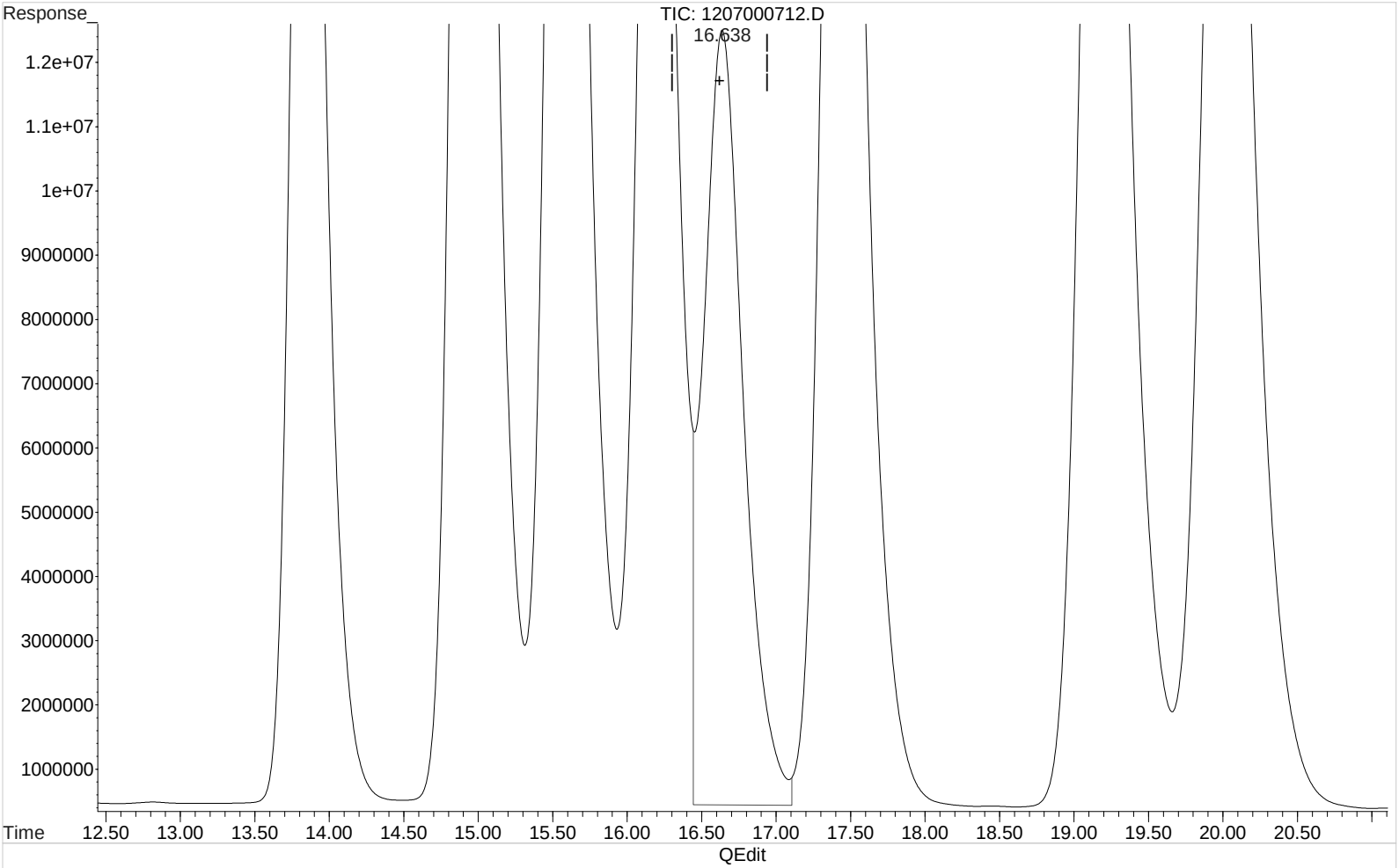


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000712.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:37:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:37:03 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.638min 10174.148 ug/L

response 223770282

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

12/08/16

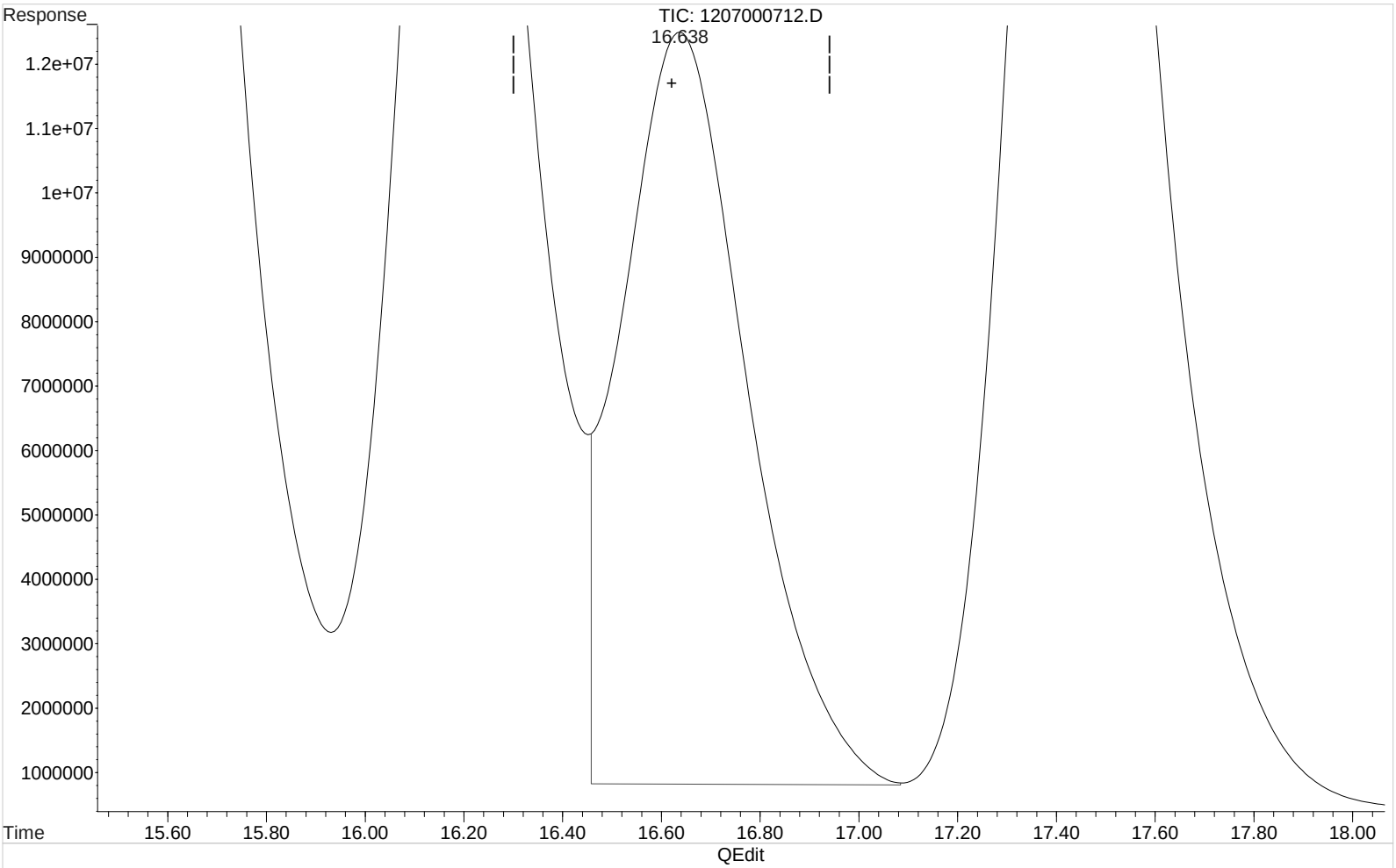
12/09/16

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000712.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:38:00 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:37:03 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.638min 9302.543 ug/L m

response 204600197

Manual Integration:

After

Baseline/Shoulder

12/08/16

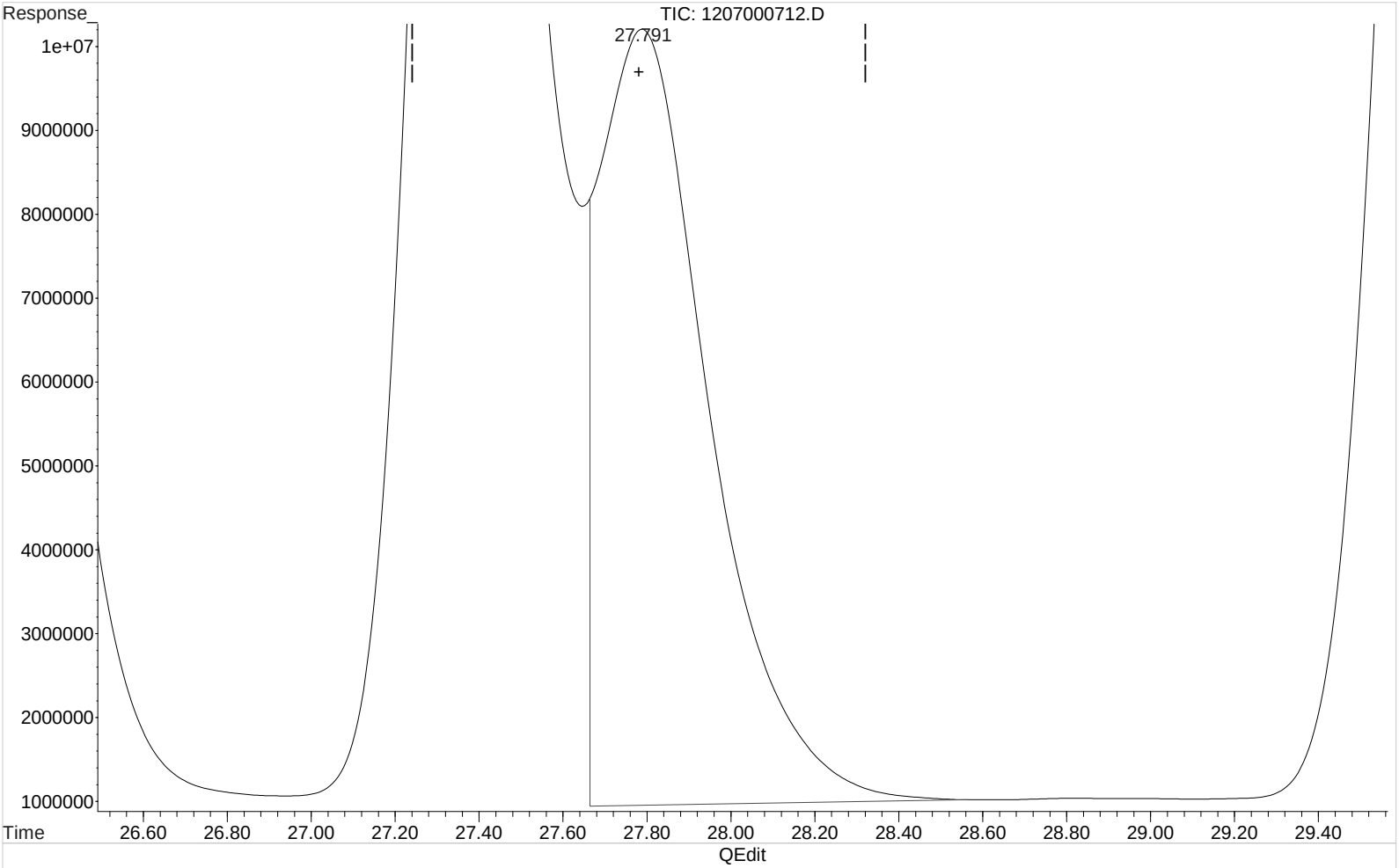
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000712.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:37:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:37:03 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.791min 8680.900 ug/L

response 165913087

Manual Integration:

Before

12/08/16

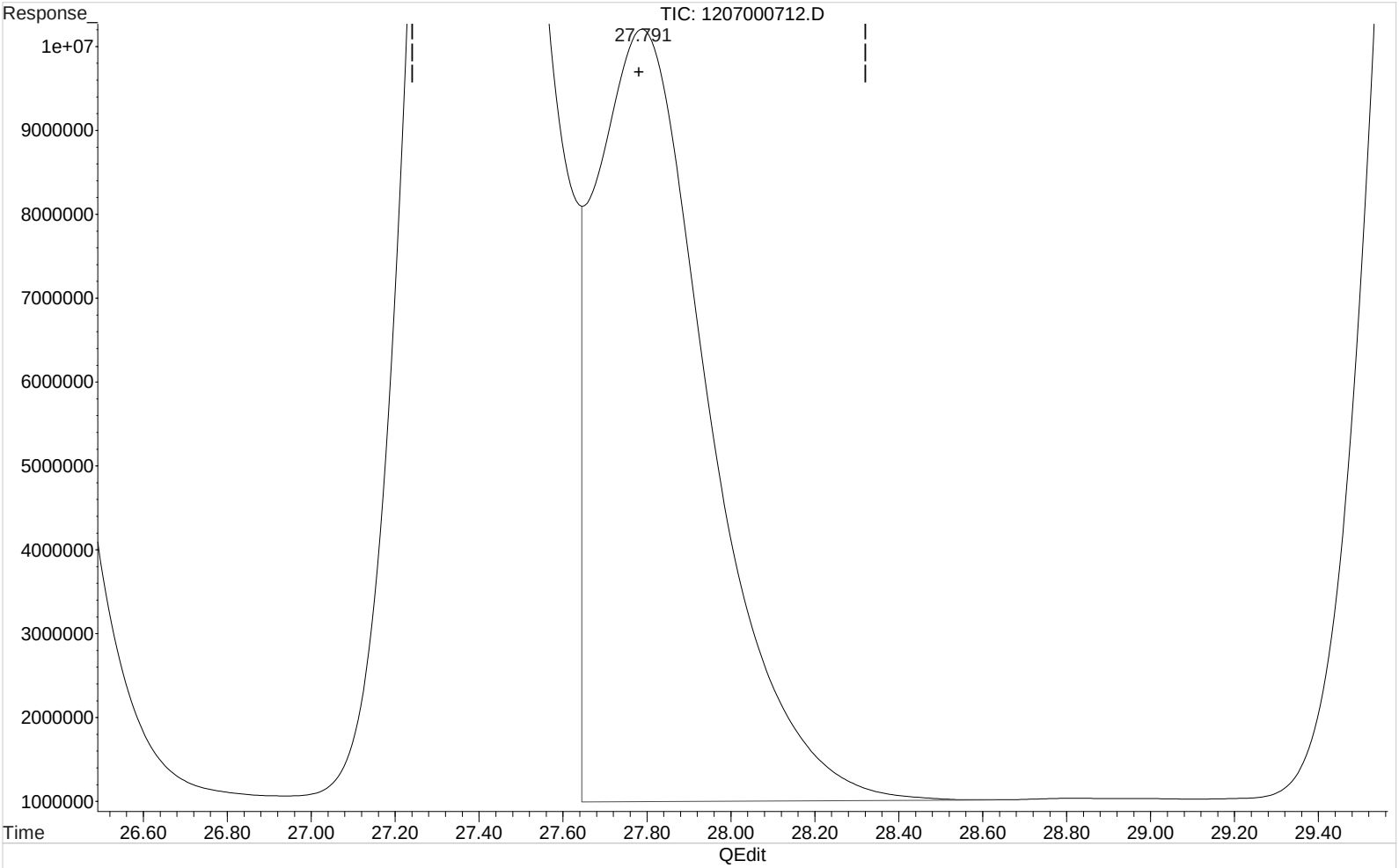
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000712.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:37:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:37:03 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.791min 9066.254 ug/L m

response 173278128

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000713.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:09:26 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:38:20 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.704	1145844586	20170.461	ug/L	
Target Compounds						
1) T	Nitroglycerin	16.624	424970178	19359.201	ug/L	m
2) T	PETN	27.797	360374404	19078.177	ug/L	m

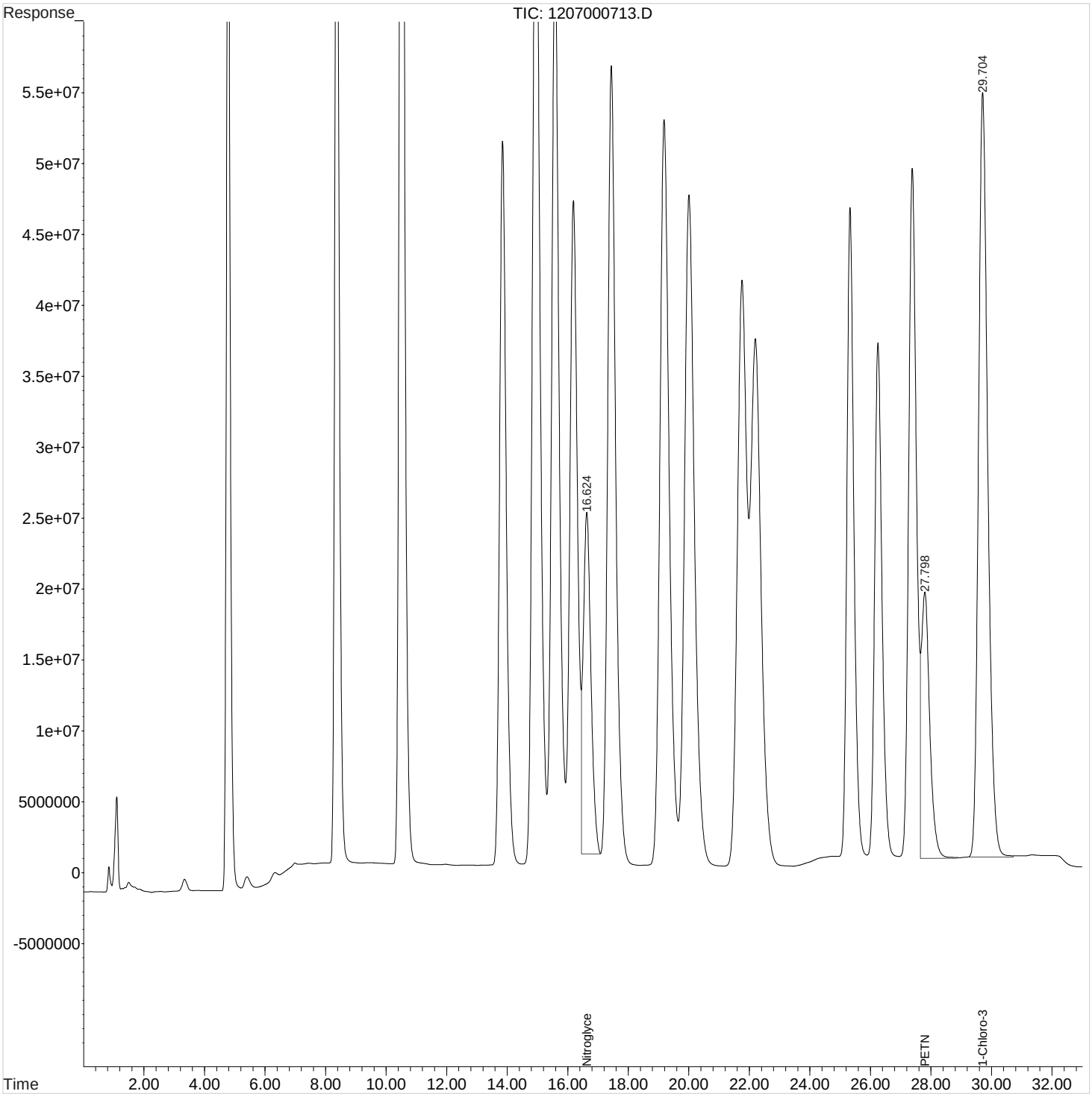
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000713.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:09:26 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:38:20 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

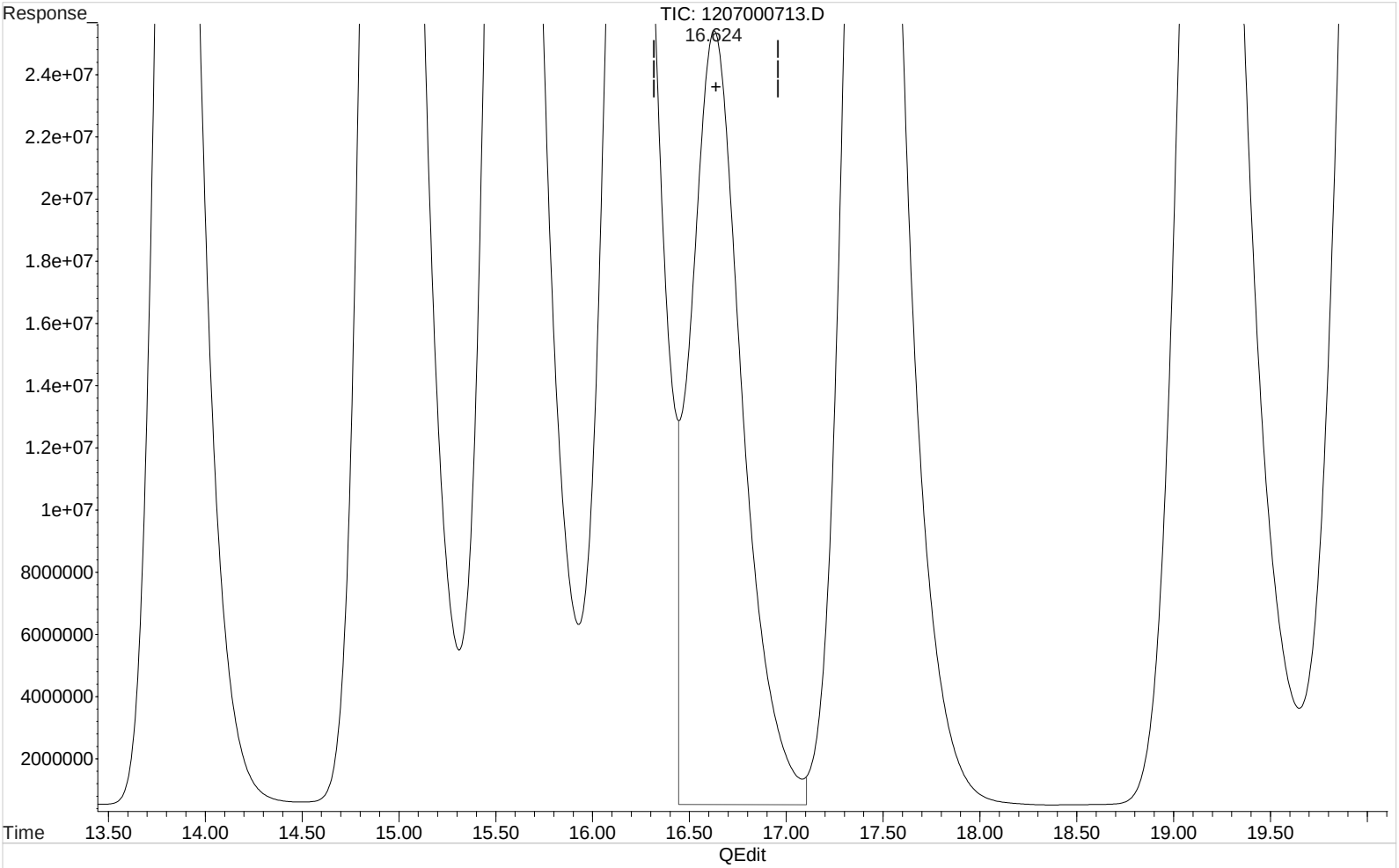


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000713.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:38:32 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:38:20 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.624min 21000.929 ug/L

response 461009128

Manual Integration:

Before

12/08/16

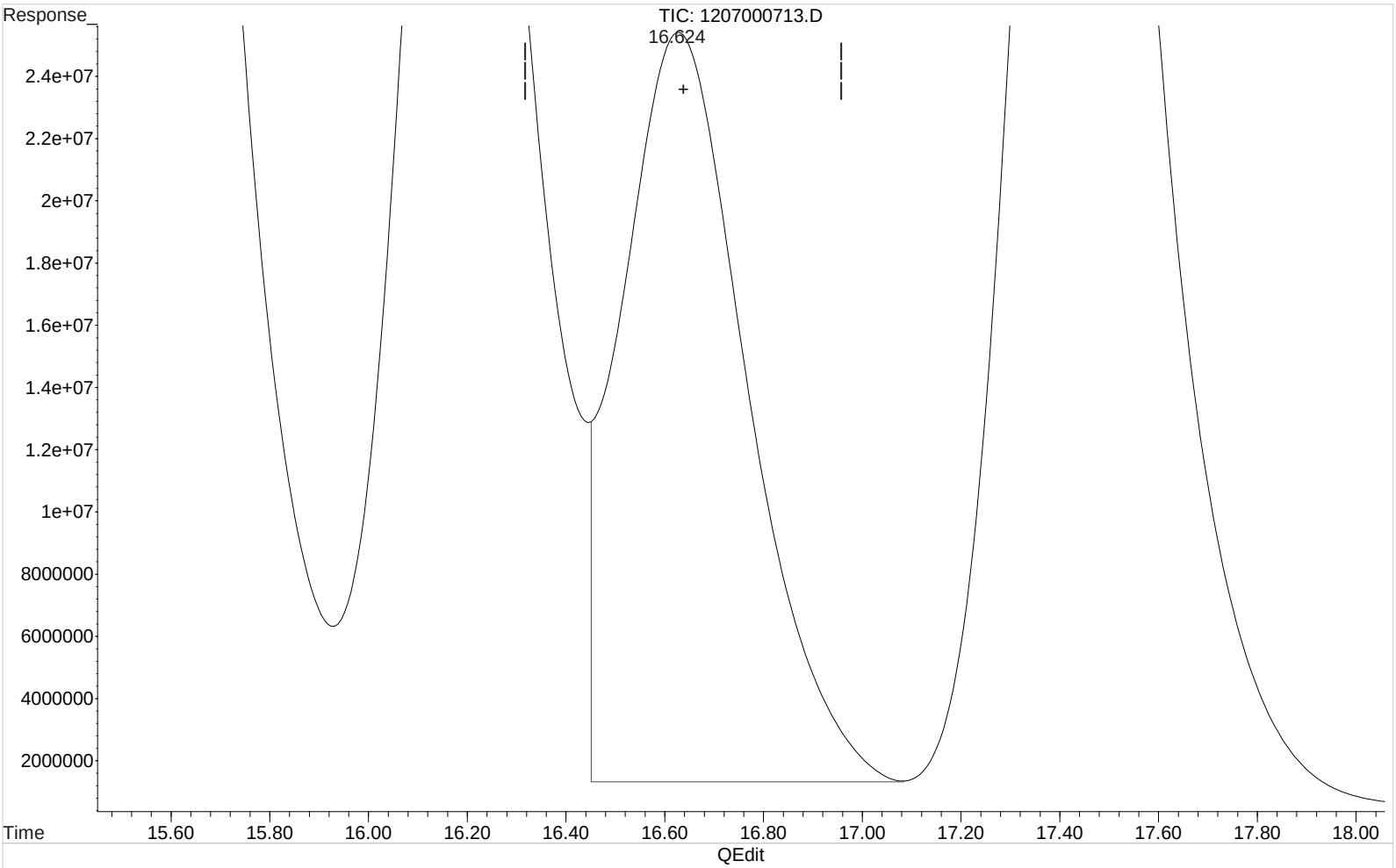
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000713.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:39:06 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:38:20 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.624min 19359.201 ug/L m

response 424970178

Manual Integration:

After

Baseline/Shoulder

12/08/16

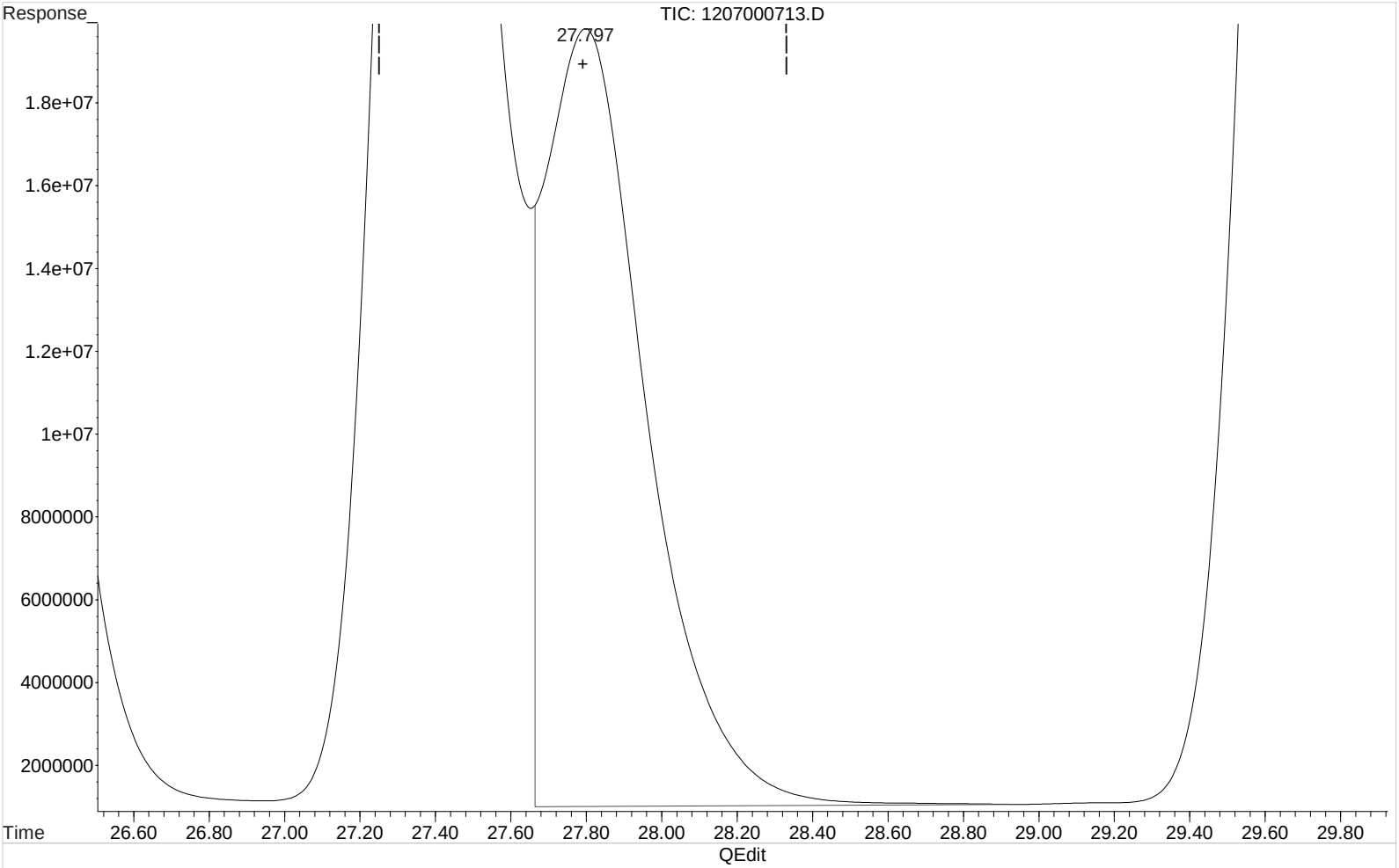
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000713.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:38:32 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:38:20 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.797min 18418.928 ug/L

response 347921609

Manual Integration:

Before

12/08/16

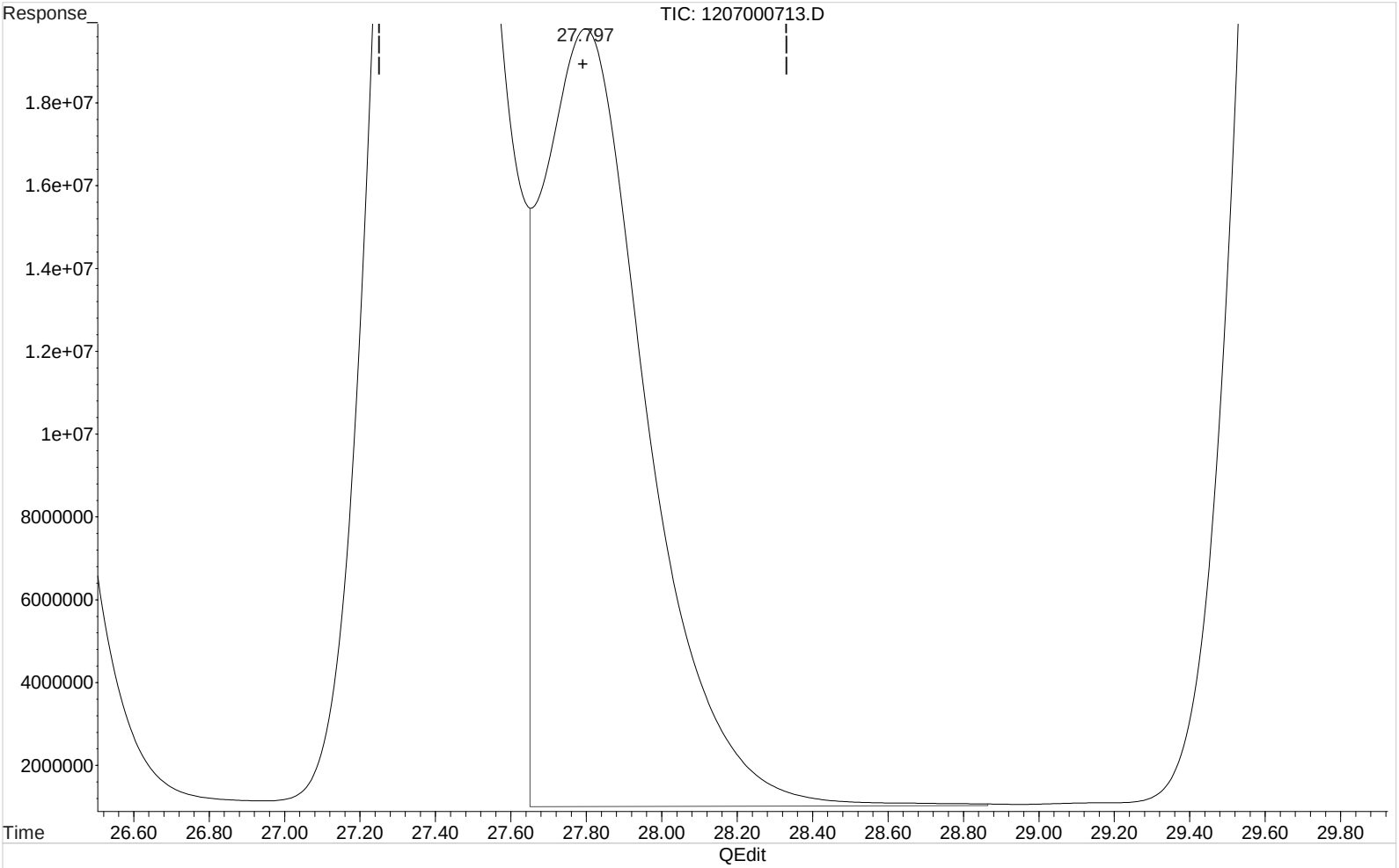
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000713.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:38:32 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:38:20 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.797min 19078.177 ug/L m

response 360374404

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000715.D Vial: 13
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:31:00 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:30:11 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.691	470830412	8280.252	ug/L	
Target Compounds						
1) T	Nitroglycerin	16.637	193613600	9287.498	ug/L	m
2) T	PETN	27.778	158765185	9023.071	ug/L	m

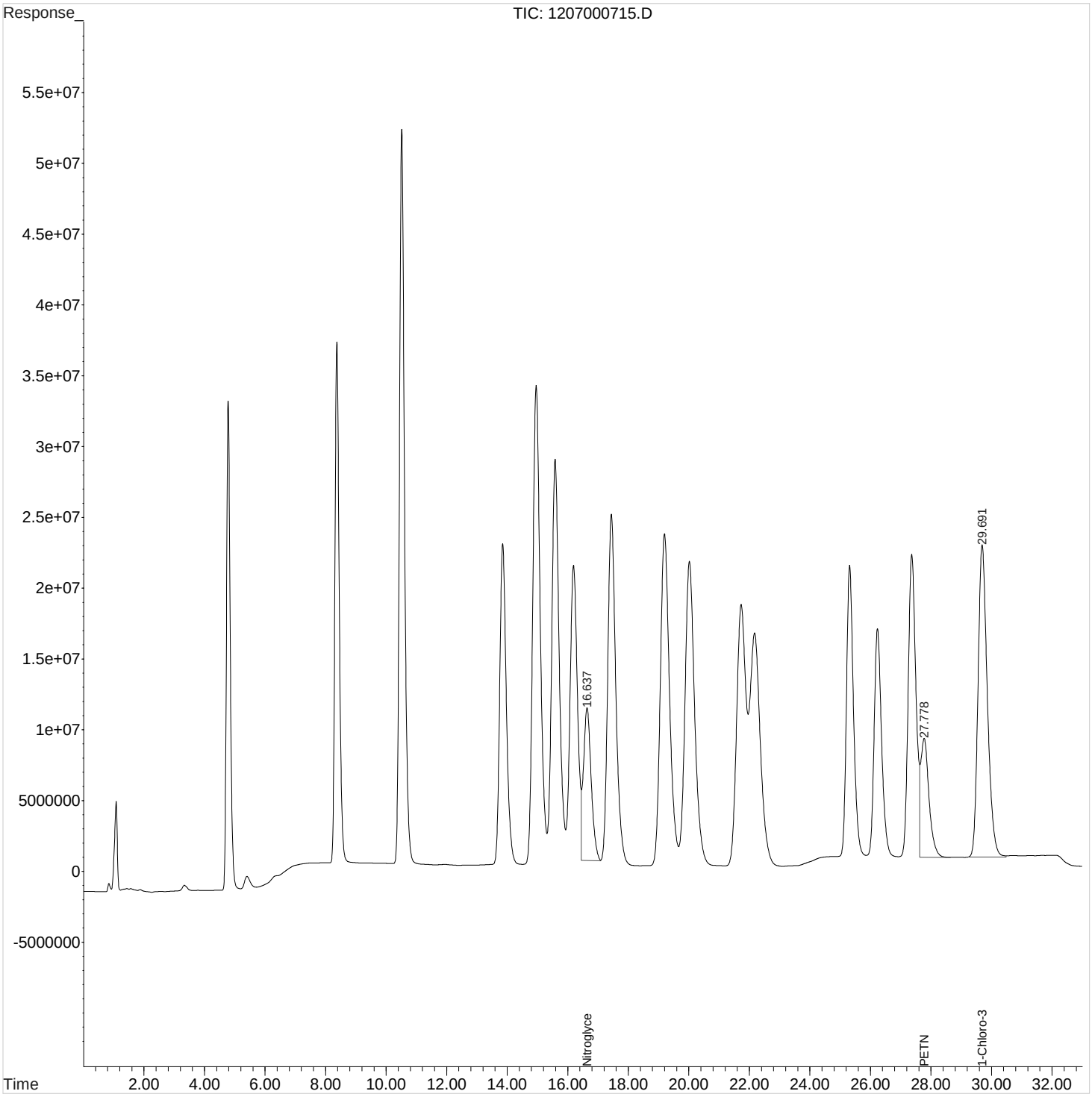
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000715.D Vial: 13
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:31:00 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:30:11 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

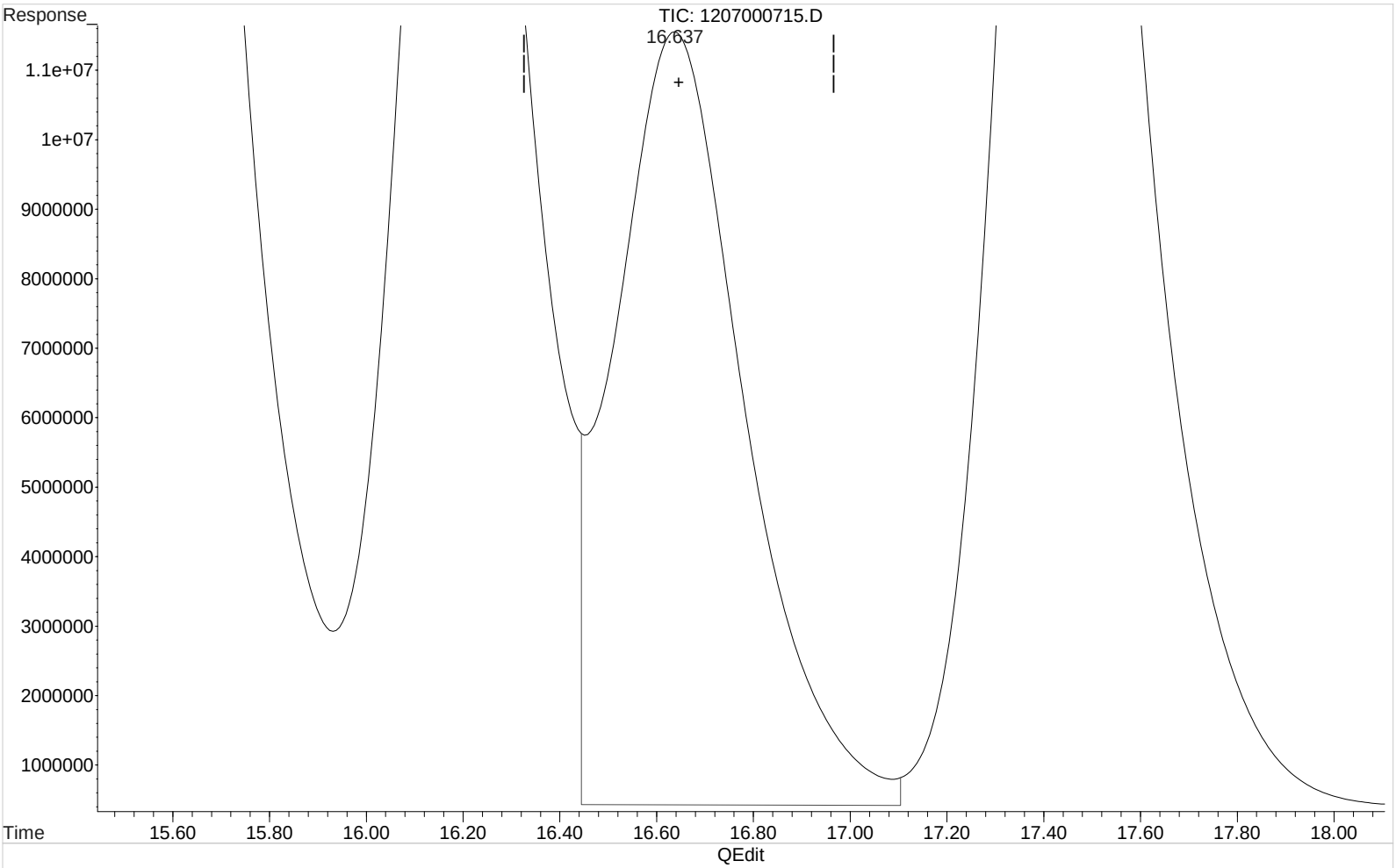


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000715.D Vial: 13
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:30:40 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:30:11 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.637min 9917.726 ug/L

response 206751766

Manual Integration:

Before

12/08/16

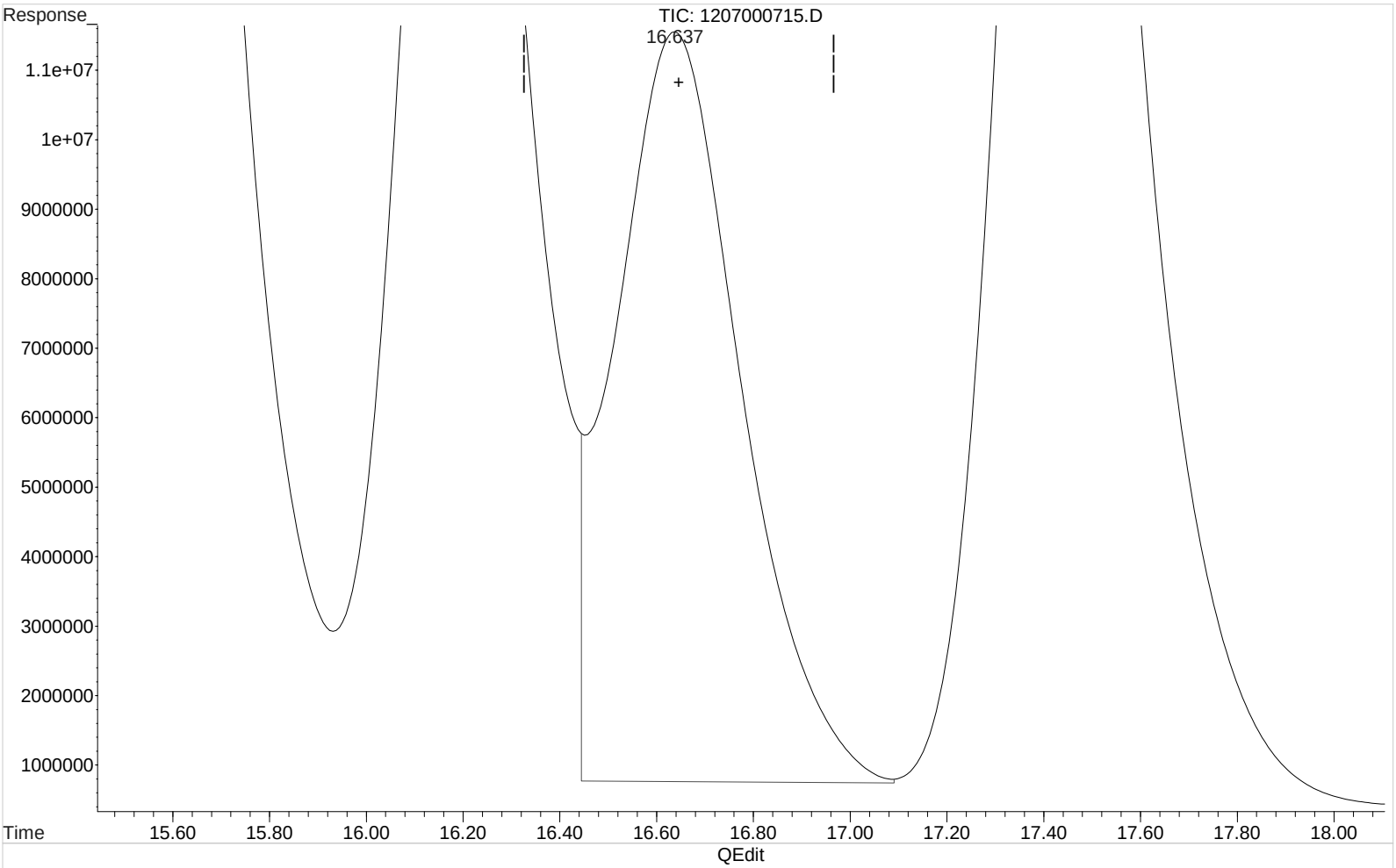
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000715.D Vial: 13
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:30:40 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:30:11 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.637min 9287.498 ug/L m

response 193613600

Manual Integration:

After

Baseline/Shoulder

12/08/16

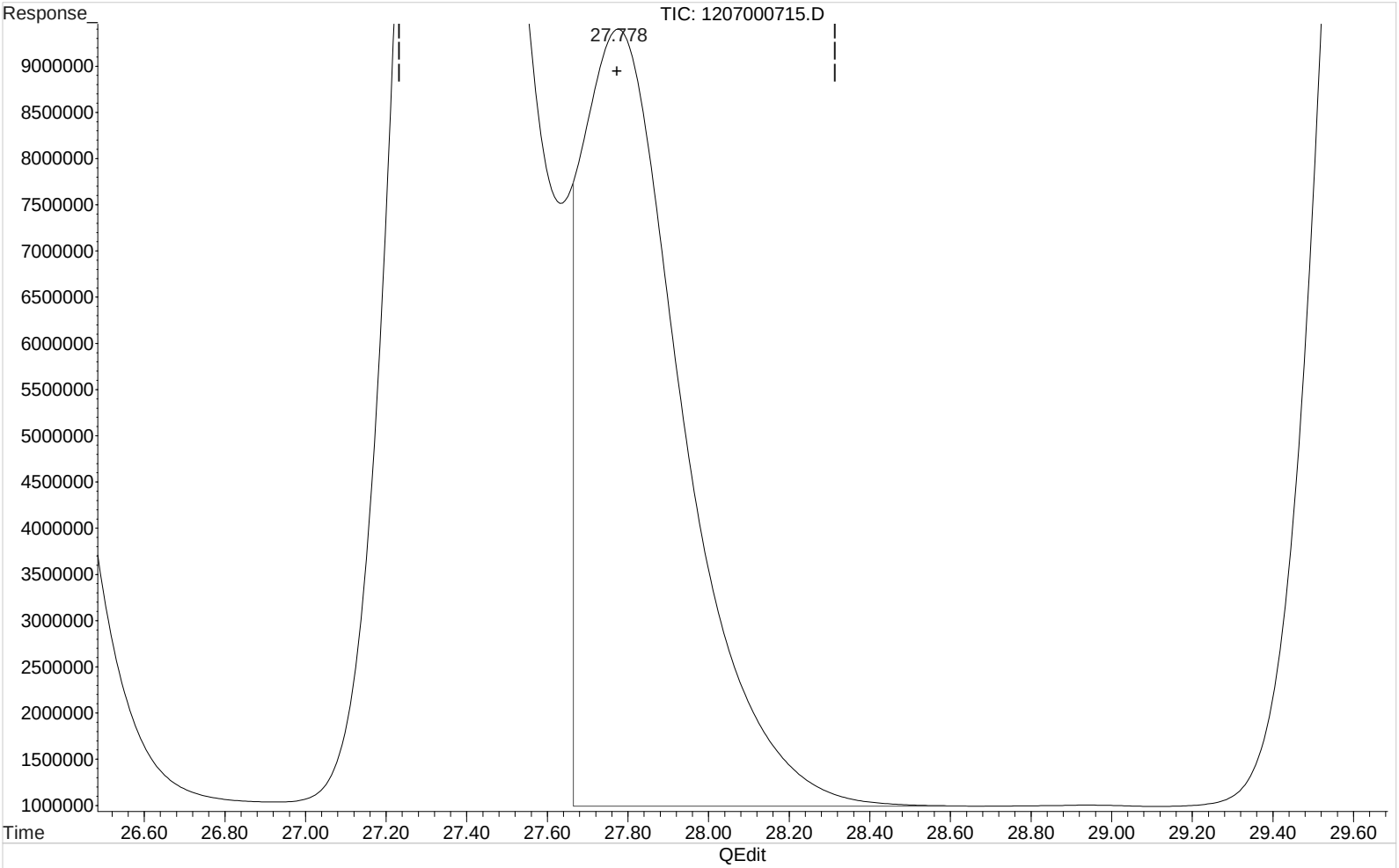
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000715.D Vial: 13
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:30:40 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:30:11 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.778min 8252.774 ug/L

response 145211446

Manual Integration:

Before

12/08/16

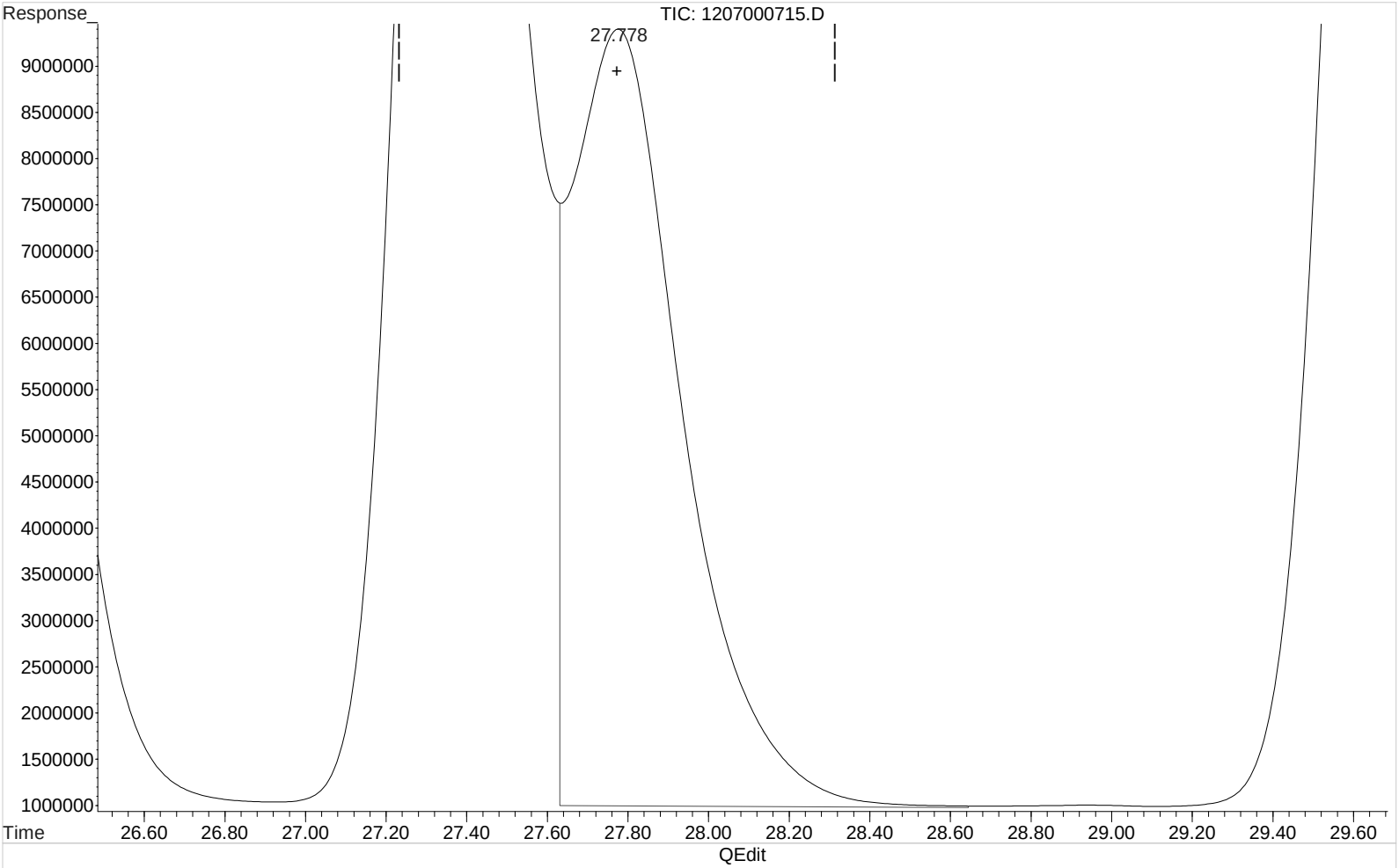
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000715.D Vial: 13
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:30:40 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:30:11 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.778min 9023.071 ug/L m

response 158765185

Manual Integration:

After

Baseline/Shoulder

12/08/16

(+) = Expected Retention Time

Date: 2/9/2017 XC-254 YC-210

ALS Environmental

ICAL Date: 2/9/2017

By: AE

Injection Log

ICAL ID: CAL 15185 (210) CAL 15192 (254)

Stealth ID: N/A **LC8 - Agilent 1260** **LIMS ID:** N/A

2nd Review:

Column: Ultra Aromax SN: 150411353J

Mobile Phases A: MeOH Lot#: 56189 **B:** ACN Lot#: 56207 **C:** H_2O Lot#: 56160 NA

		File Name	Method	Dilution	R	Comments
1	PRIMER	0209000101	8330BXC.M	NA		
2	PRIMER	0209000102	8330BXC.M	NA	X	
3	IB	0209000103	8330BXC.M	NA	X	
4	17-OLC-01-09J 20 PPB	0209000104	8330BXC.M	NA	X	
5	17-OLC-01-09I 50 PPB	0209000105	8330BXC.M	NA	X	
6	17-OLC-01-09H 100 PPB	0209000106	8330BXC.M	NA	X	
7	17-OLC-01-09G 200 PPB	0209000107	8330BXC.M	NA	X	
8	17-OLC-01-09F 500 PPB	0209000108	8330BXC.M	NA	X	
9	17-OLC-01-09E 1000 PPB	0209000109	8330BXC.M	NA	X	
10	17-OLC-01-09D 2000 PPB	0209000110	8330BXC.M	NA	X	
11	17-OLC-01-09C 5000 PPB	0209000111	8330BXC.M	NA	X	
12	17-OLC-01-09B 10000 PPB	0209000112	8330BXC.M	NA	X	
13	17-OLC-01-09A 20000 PPB	0209000113	8330BXC.M	NA	X	
14	IB	0209000114	8330BXC.M	NA	X	
15	17-OLC-01-09K 1000 PPB ICV	0209000115	8330BXC.M	NA	X	
16	IB	0209000116	8330BXC.M	NA	X	

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000103.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 15:23:38 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:25:25 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
11) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	
	Target Compounds					
1) T	HMX	0.000	0	N.D.	ug/L	d
2) T	RDX	0.000	0	N.D.	ug/L	
3) T	Nitrobenzene	0.000	0	N.D.	ug/L	
4) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L	d
5) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L	d
6) T	2-NT	0.000	0	N.D.	ug/L	
7) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L	d
8) T	3-NT	0.000	0	N.D.	ug/L	d
9) T	1,3-DNB	0.000	0	N.D.	ug/L	
10) T	4-NT	0.000	0	N.D.	ug/L	
12) T	2,6-DNT	0.000	0	N.D.	ug/L	
13) T	2,4-DNT	0.000	0	N.D.	ug/L	d
14) T	Tetryl	0.000	0	N.D.	ug/L	d
15) T	1,3,5-TNB	0.000	0	N.D.	ug/L	d
16) T	2,4,6-TNT	0.000	0	N.D.	ug/L	d

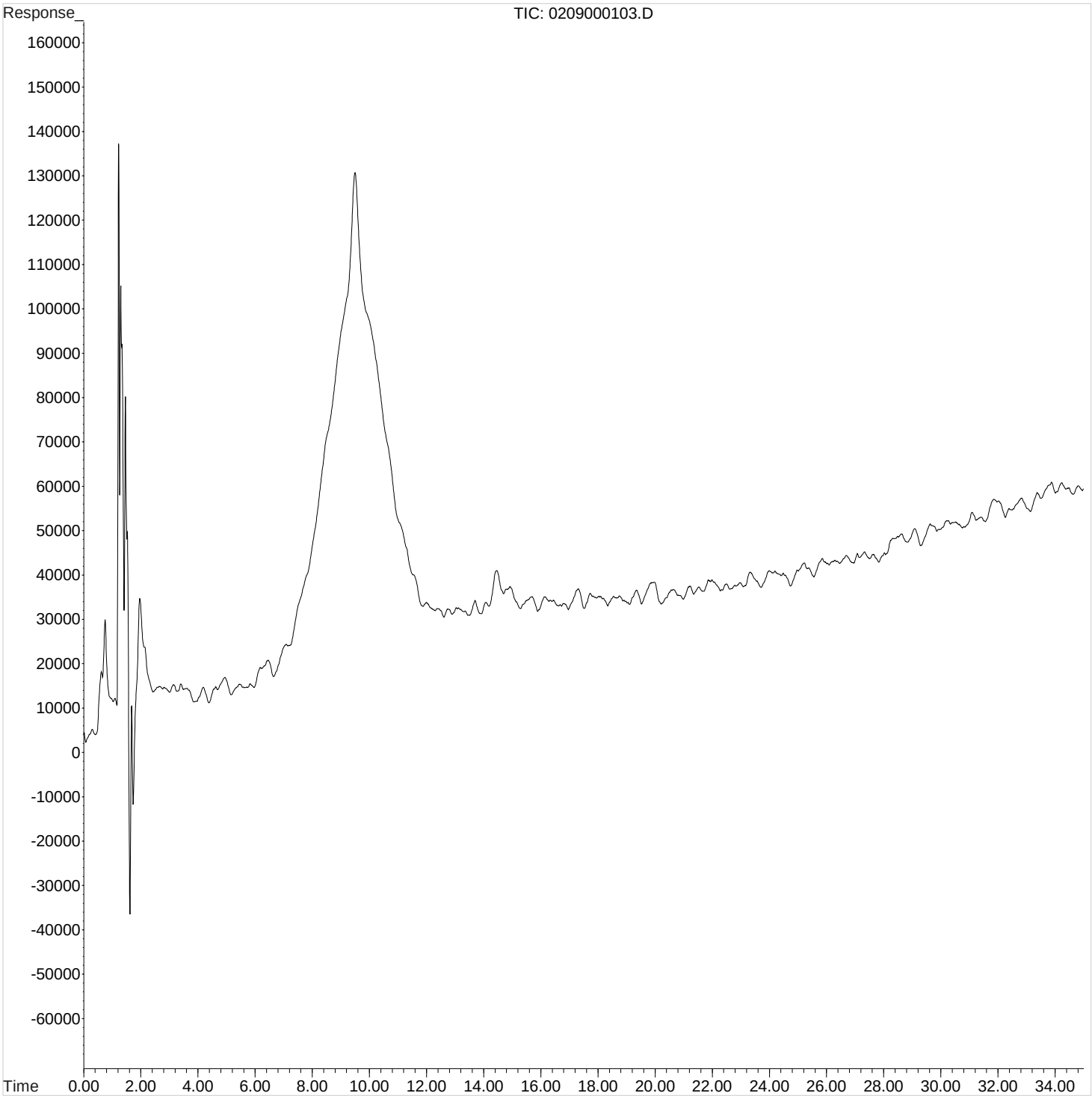
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000103.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 15:23:38 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:25:25 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:16:35 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
11)	S	1-Chloro-3-Nitrobenzene	8.147	514214	19.490	ug/L	m
		Target Compounds					
1)	T	HMX	2.553	294269	18.763	ug/L	m
2)	T	RDX	2.807	452332	24.916	ug/L	m
3)	T	Nitrobenzene	4.487	743763	19.991	ug/L	m
4)	T	3,5-Dinitroaniline	5.247	964857	20.844	ug/L	m
5)	T	4-Amino-2,6-DNT	4.873	652694	20.547	ug/L	m
6)	T	2-NT	5.867	473214	20.100	ug/L	m
7)	T	2-Amino-4,6-DNT	6.367	889746	21.218	ug/L	m
8)	T	3-NT	6.987	566568	20.307	ug/L	m
9)	T	1,3-DNB	9.147	1128441	20.188	ug/L	m
10)	T	4-NT	7.853	544768	23.816	ug/L	m
12)	T	2,6-DNT	8.827	491185	20.081	ug/L	m
13)	T	2,4-DNT	14.827	1250552	24.282	ug/L	
14)	T	Tetryl	12.993	621836	21.319	ug/L	m
15)	T	1,3,5-TNB	19.800	970683	23.433	ug/L	
16)	T	2,4,6-TNT	20.793	819690	21.258	ug/L	

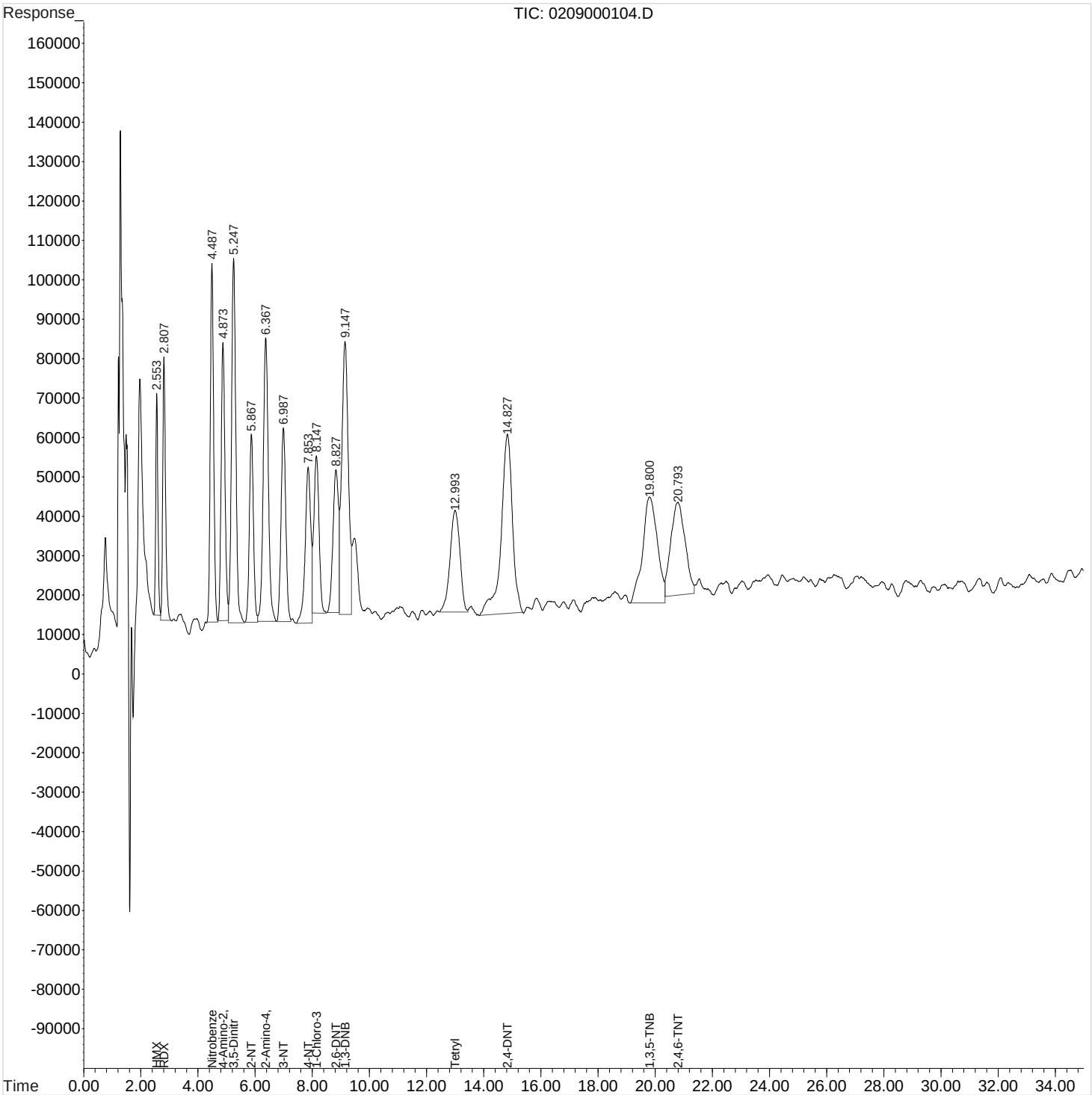
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:16:35 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

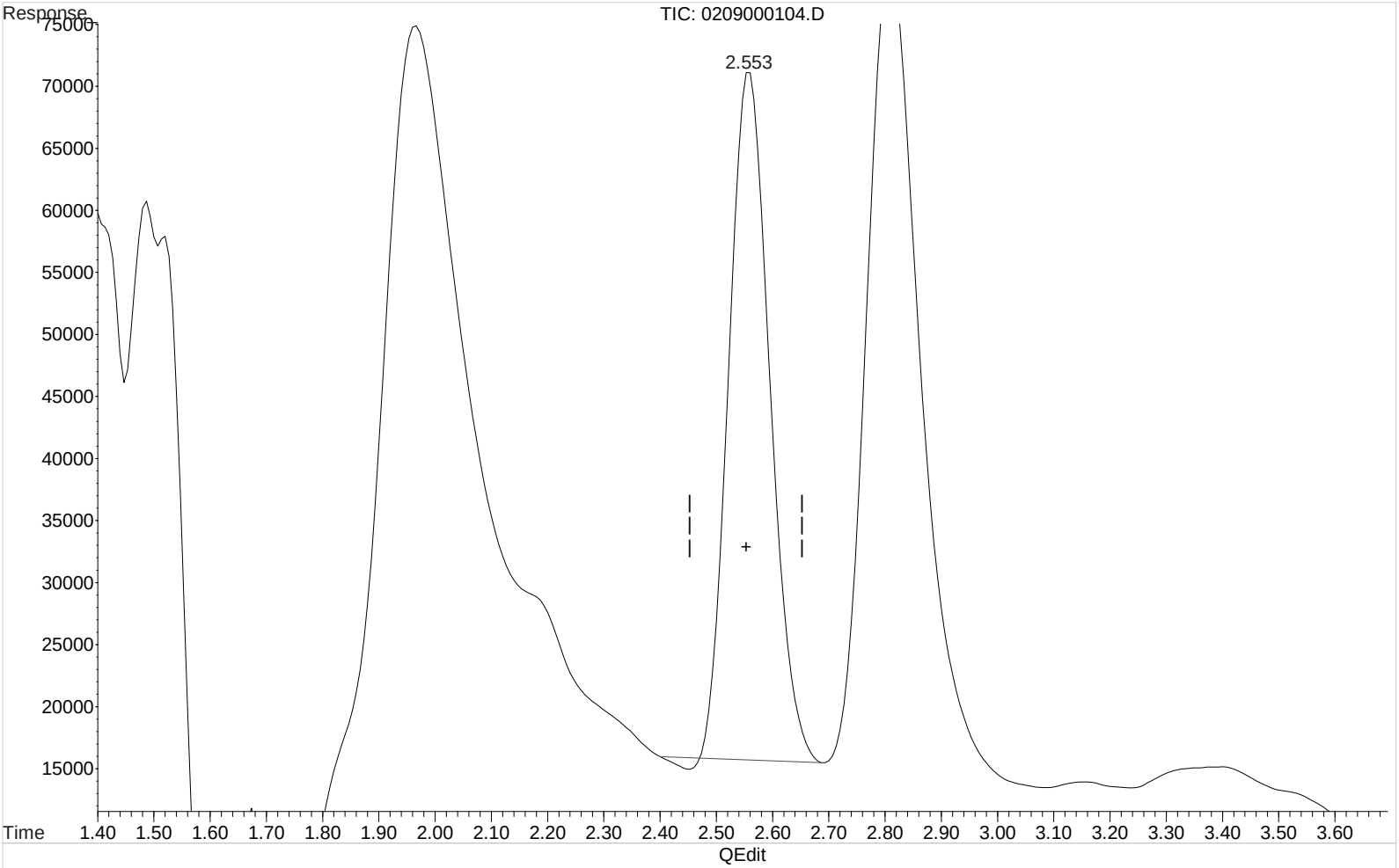


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.553min 17.958 ug/L

response 281642

Manual Integration:

Before

02/13/17

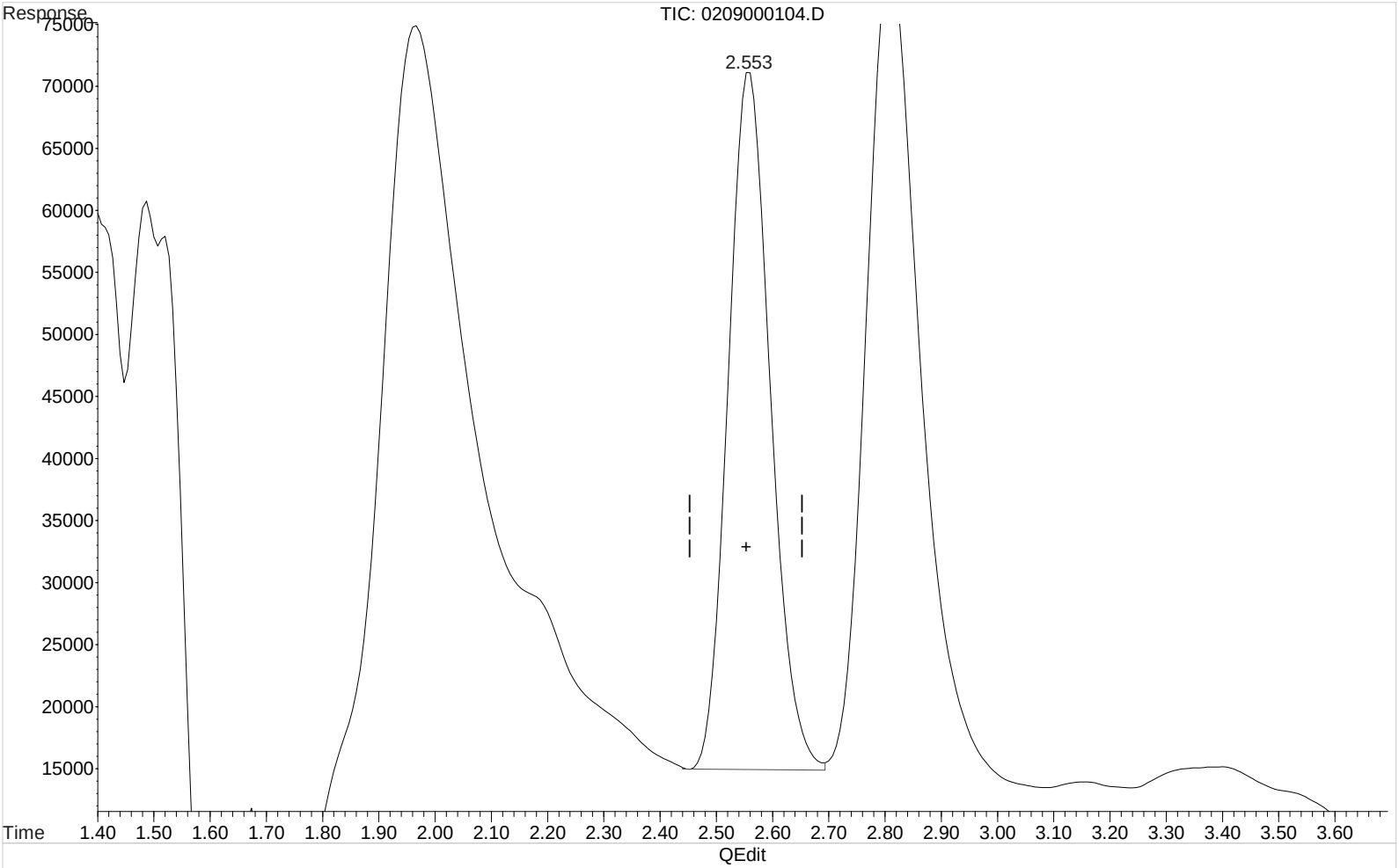
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(1) HMX (T)

2.553min 18.763 ug/L m

response 294269

Manual Integration:

After

BLC

02/13/17

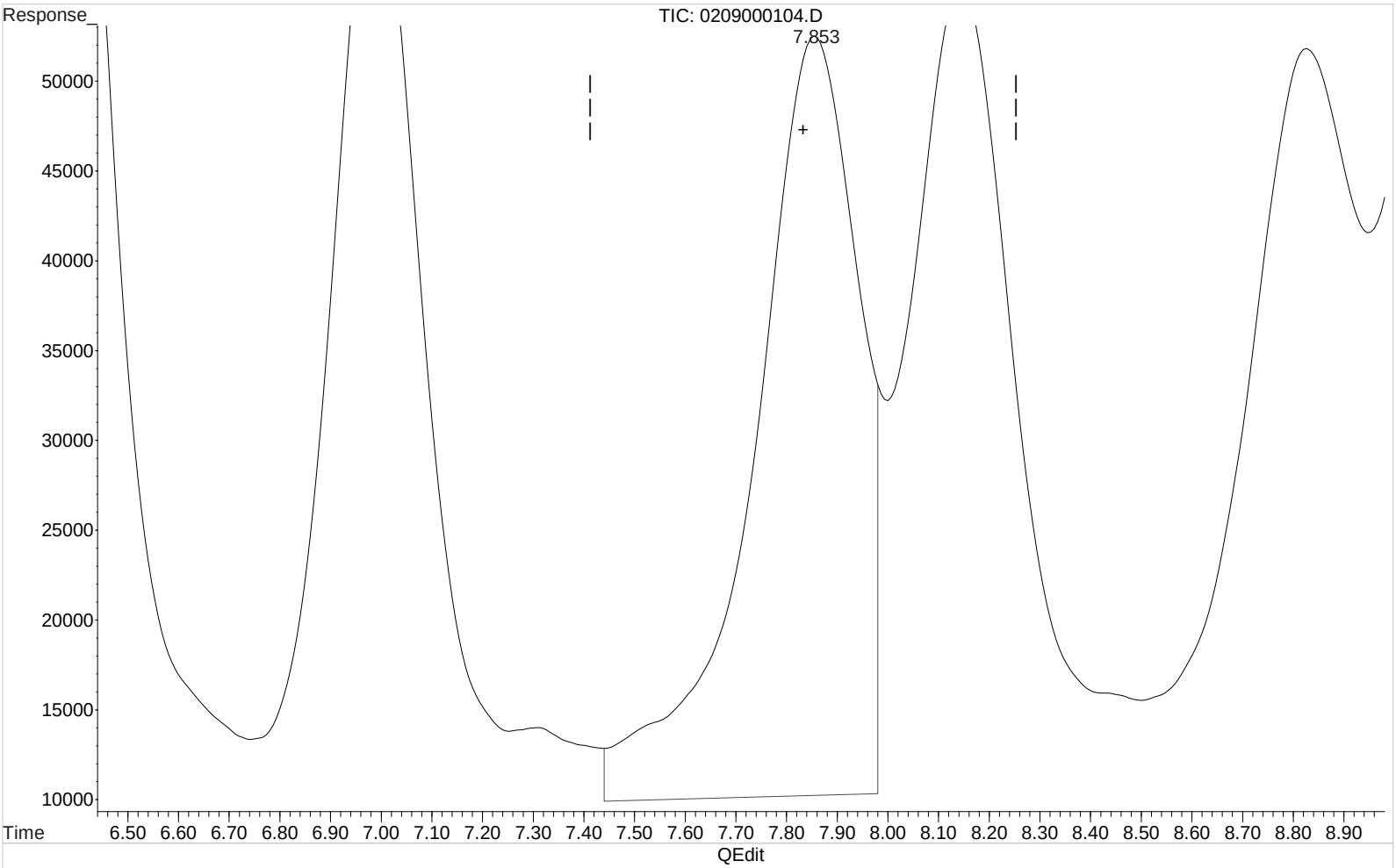
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(10) 4-NT (T)

7.853min 26.678 ug/L

response 610248

Manual Integration:

Before

02/13/17

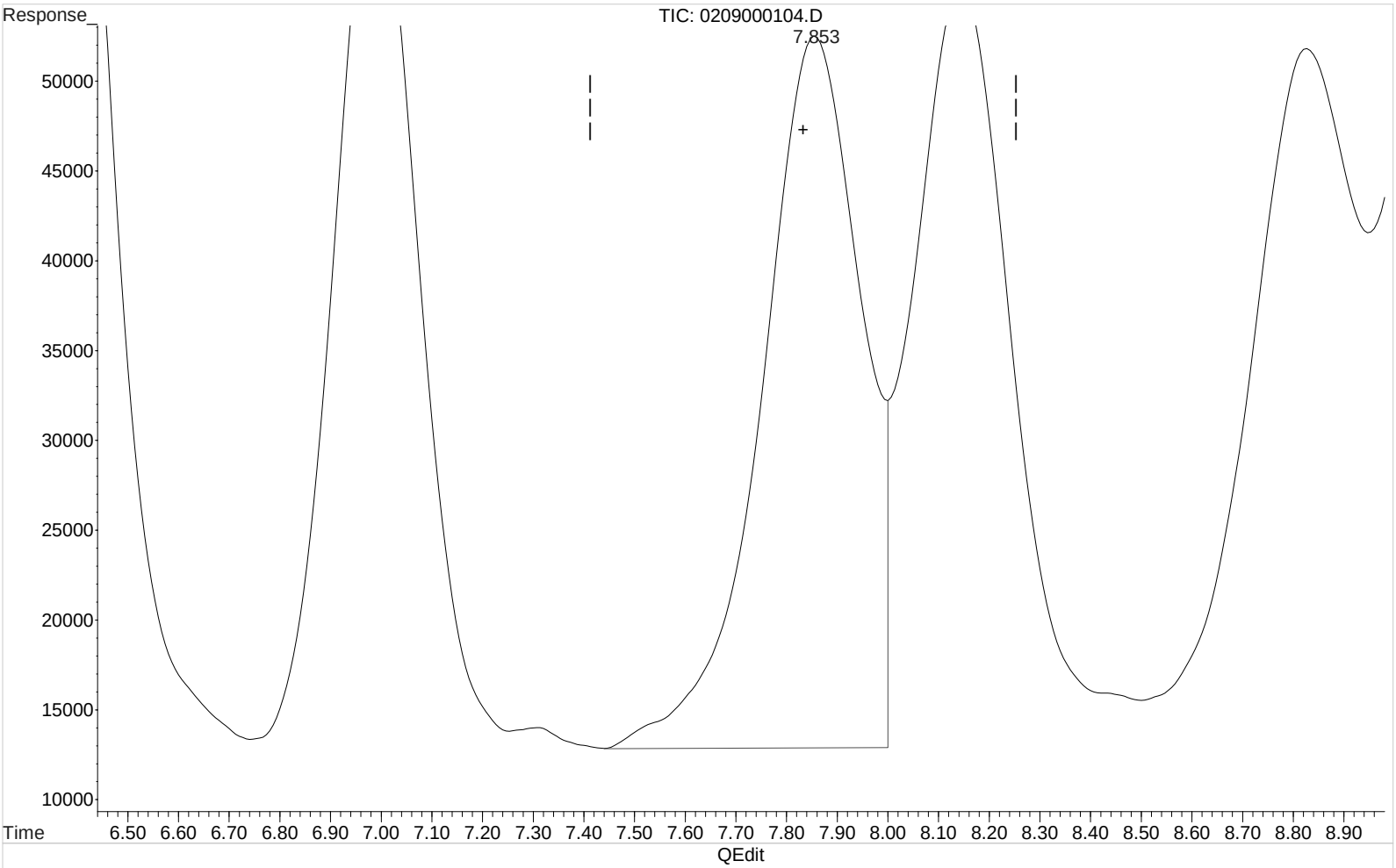
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(10) 4-NT (T)

7.853min 23.816 ug/L m

response 544768

Manual Integration:

After

BLC

02/13/17

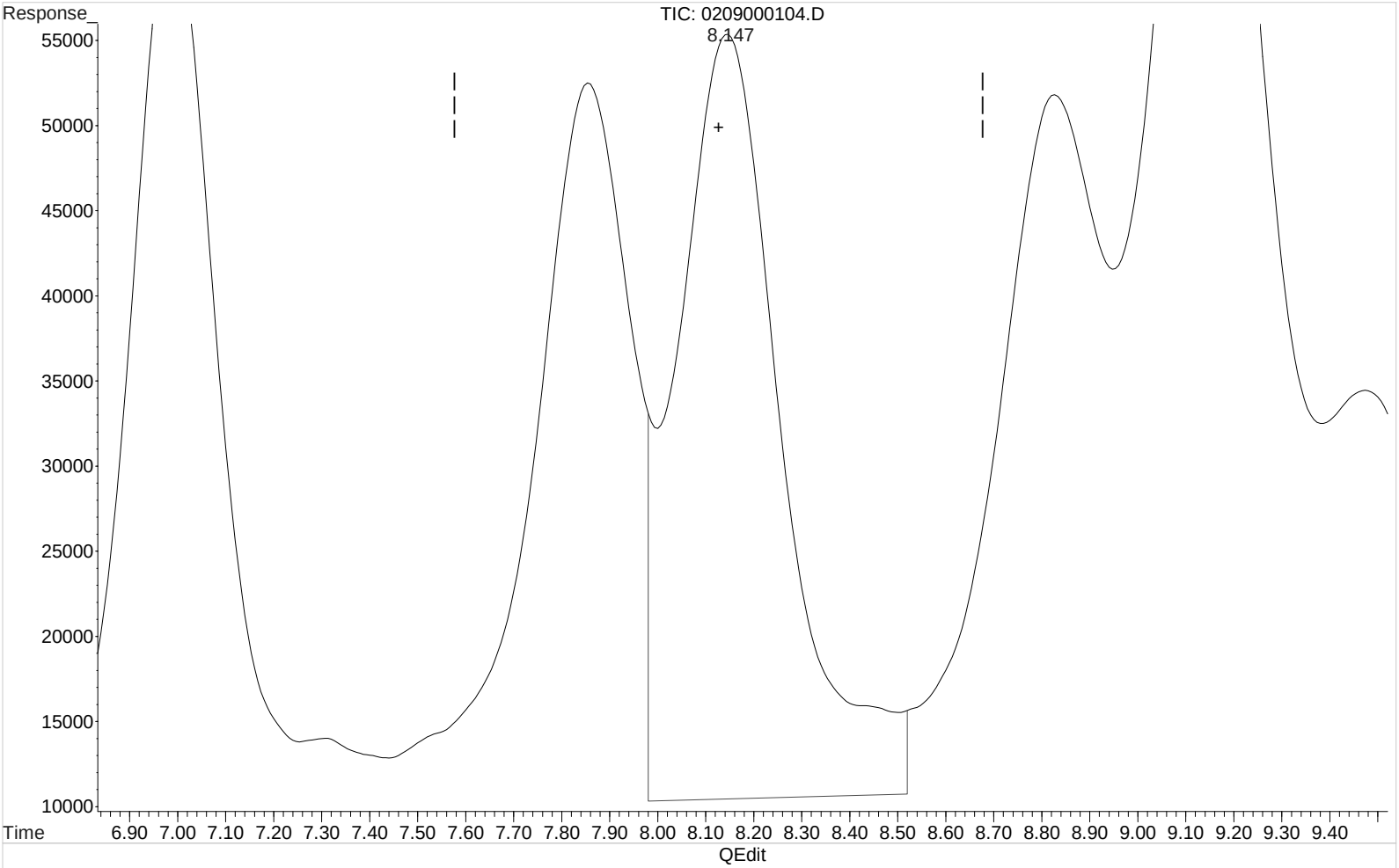
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(11) 1-Chloro-3-Nitrobenzene (S)

8.147min 25.798 ug/L

response 680648

Manual Integration:

Before

02/13/17

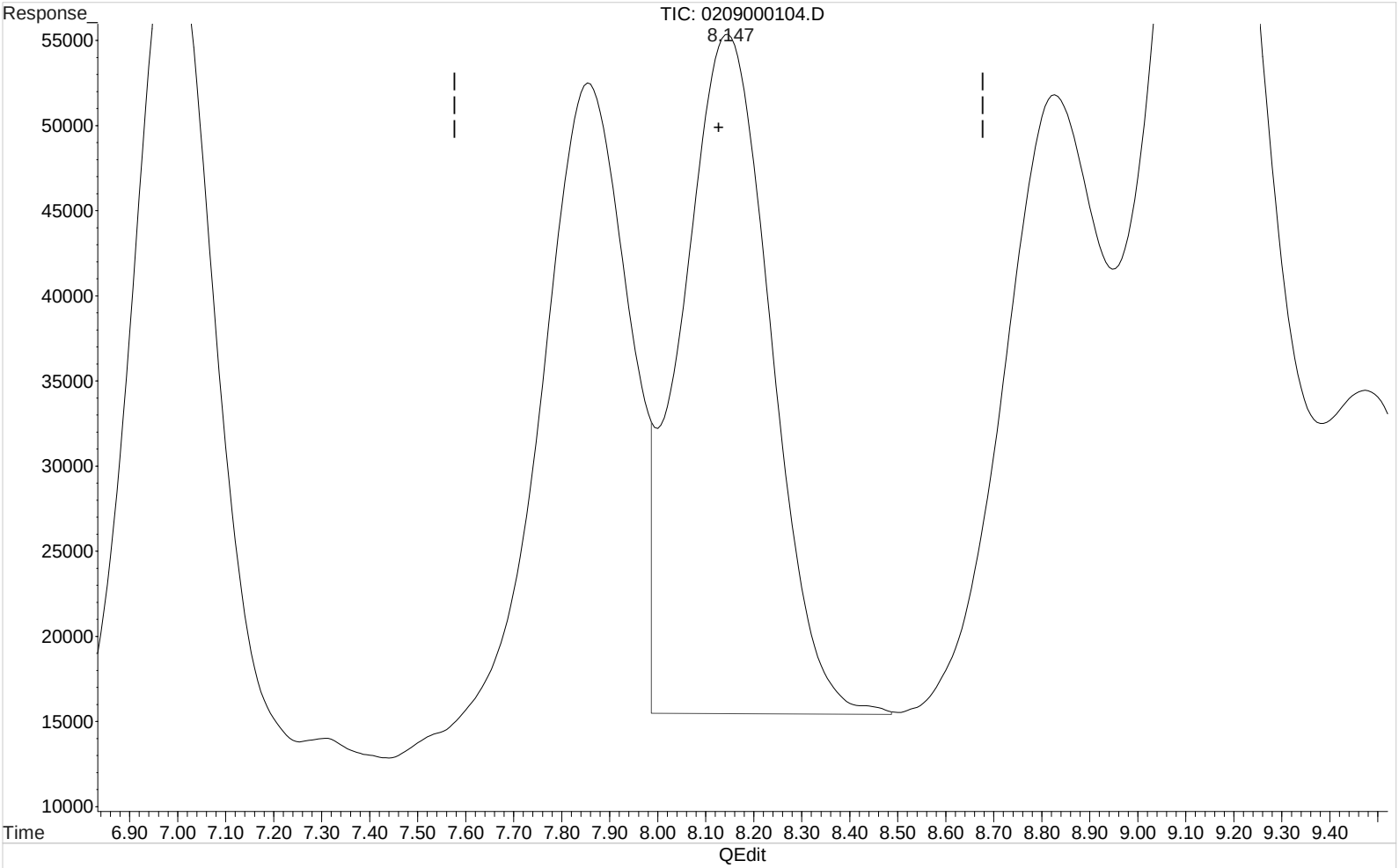
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(11) 1-Chloro-3-Nitrobenzene (S)

8.147min 19.490 ug/L m

response 514214

Manual Integration:

After

BLC

02/13/17

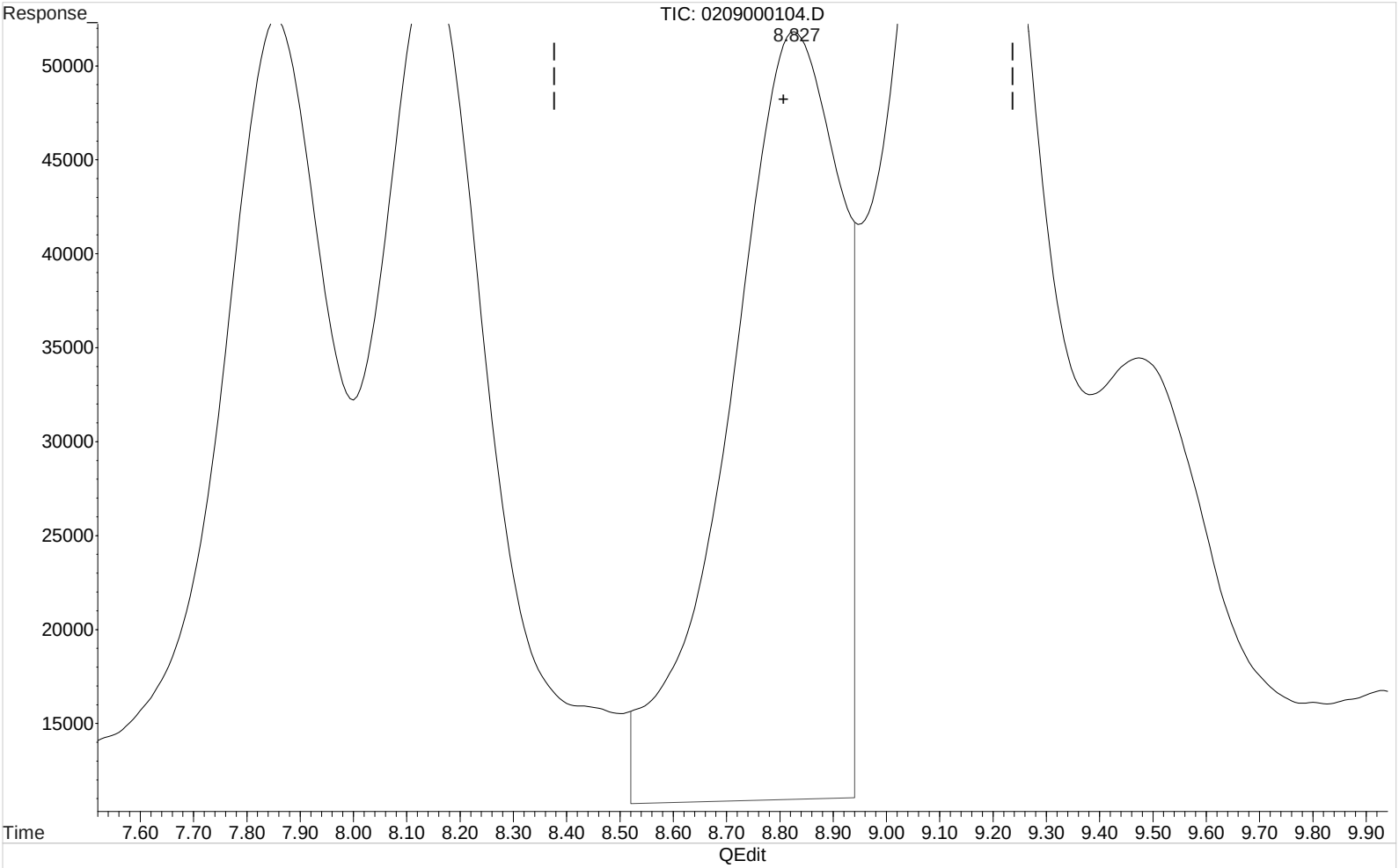
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(12) 2,6-DNT (T)

8.827min 24.500 ug/L

response 599282

Manual Integration:

Before

02/13/17

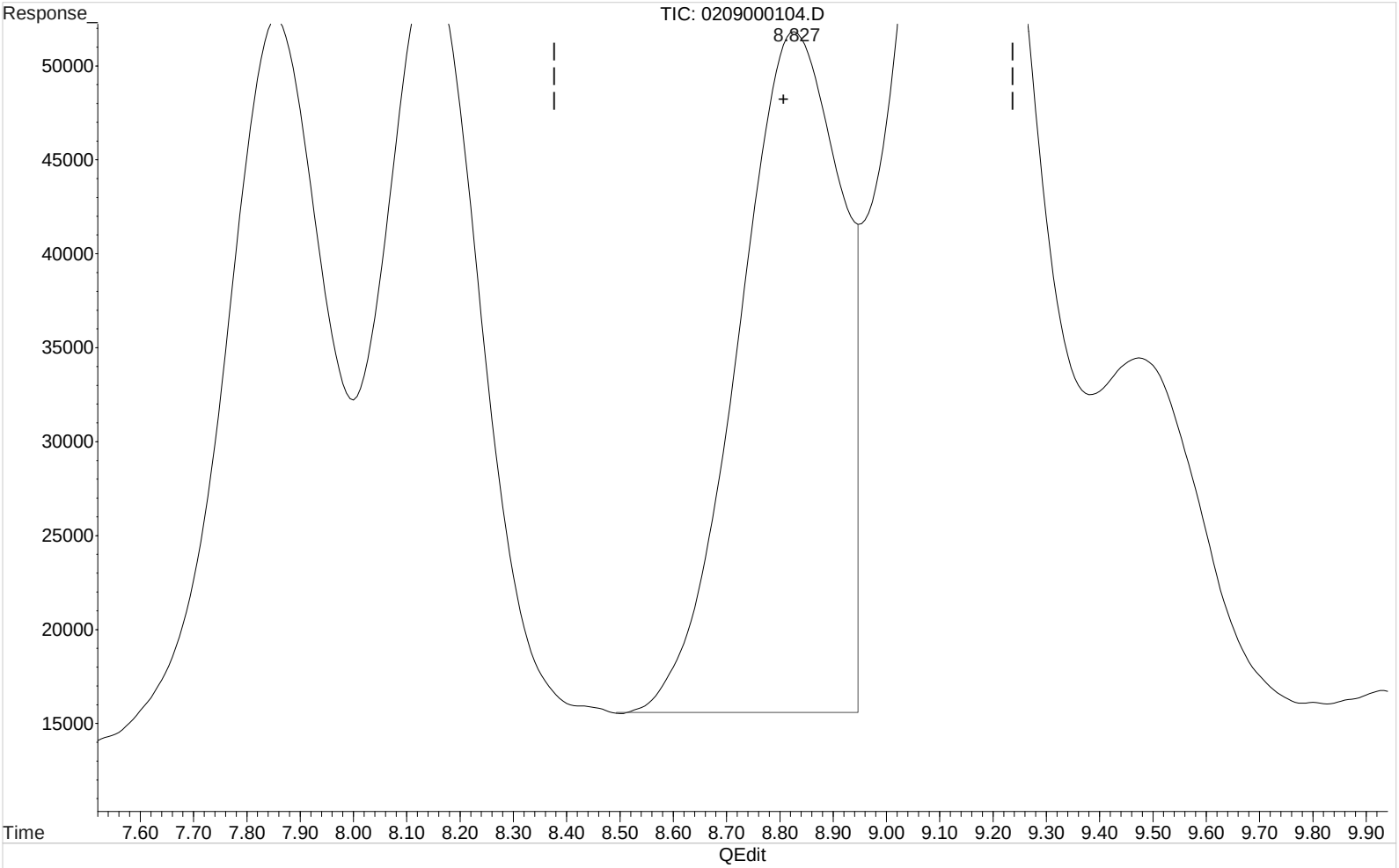
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(12) 2,6-DNT (T)

8.827min 20.081 ug/L m

response 491185

Manual Integration:

After

BLC

02/13/17

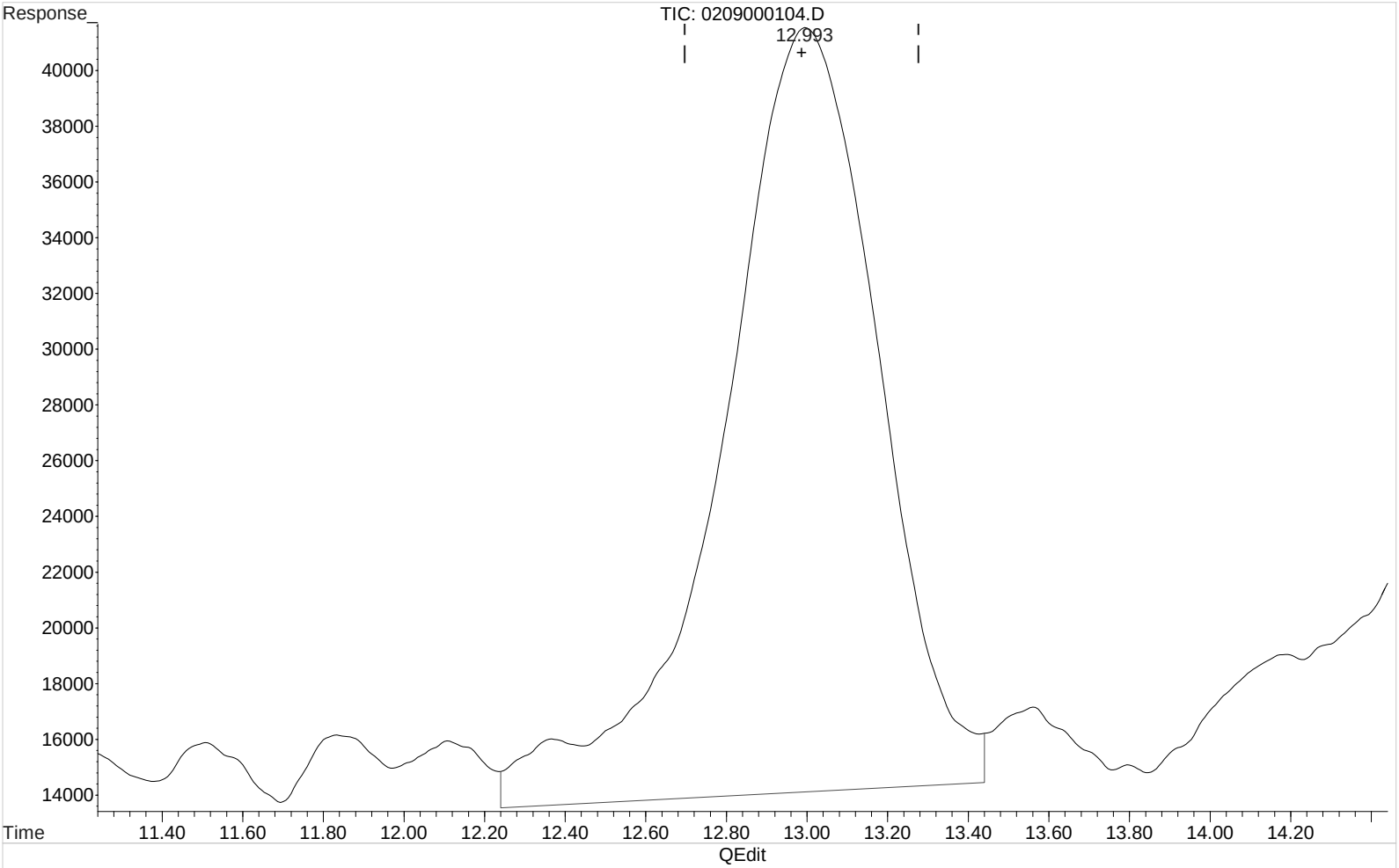
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(14) Tetryl (T)

12.993min 25.507 ug/L

response 743989

Manual Integration:

Before

02/13/17

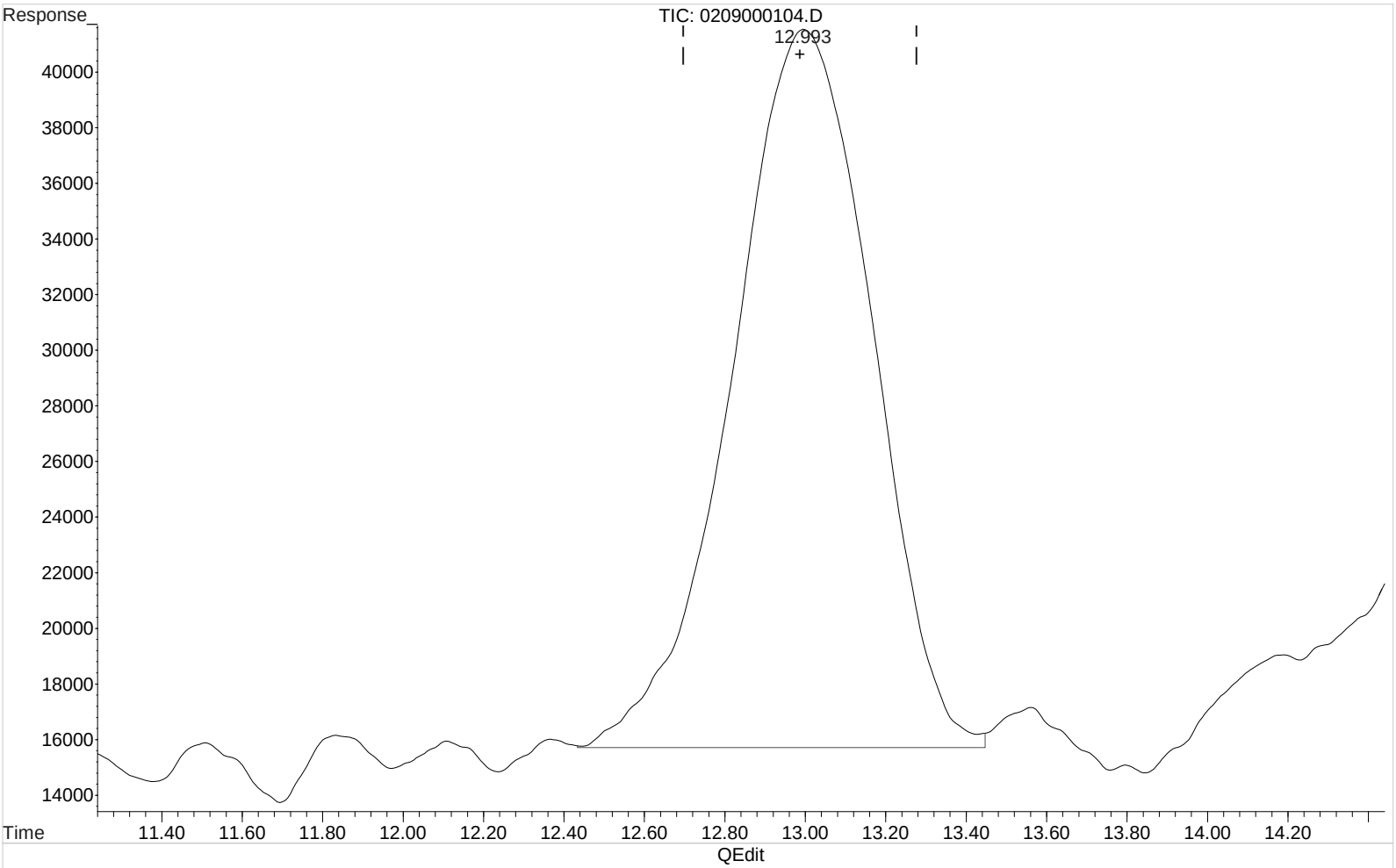
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(14) Tetryl (T)

12.993min 21.319 ug/L m

response 621836

Manual Integration:

After

BLC

02/13/17

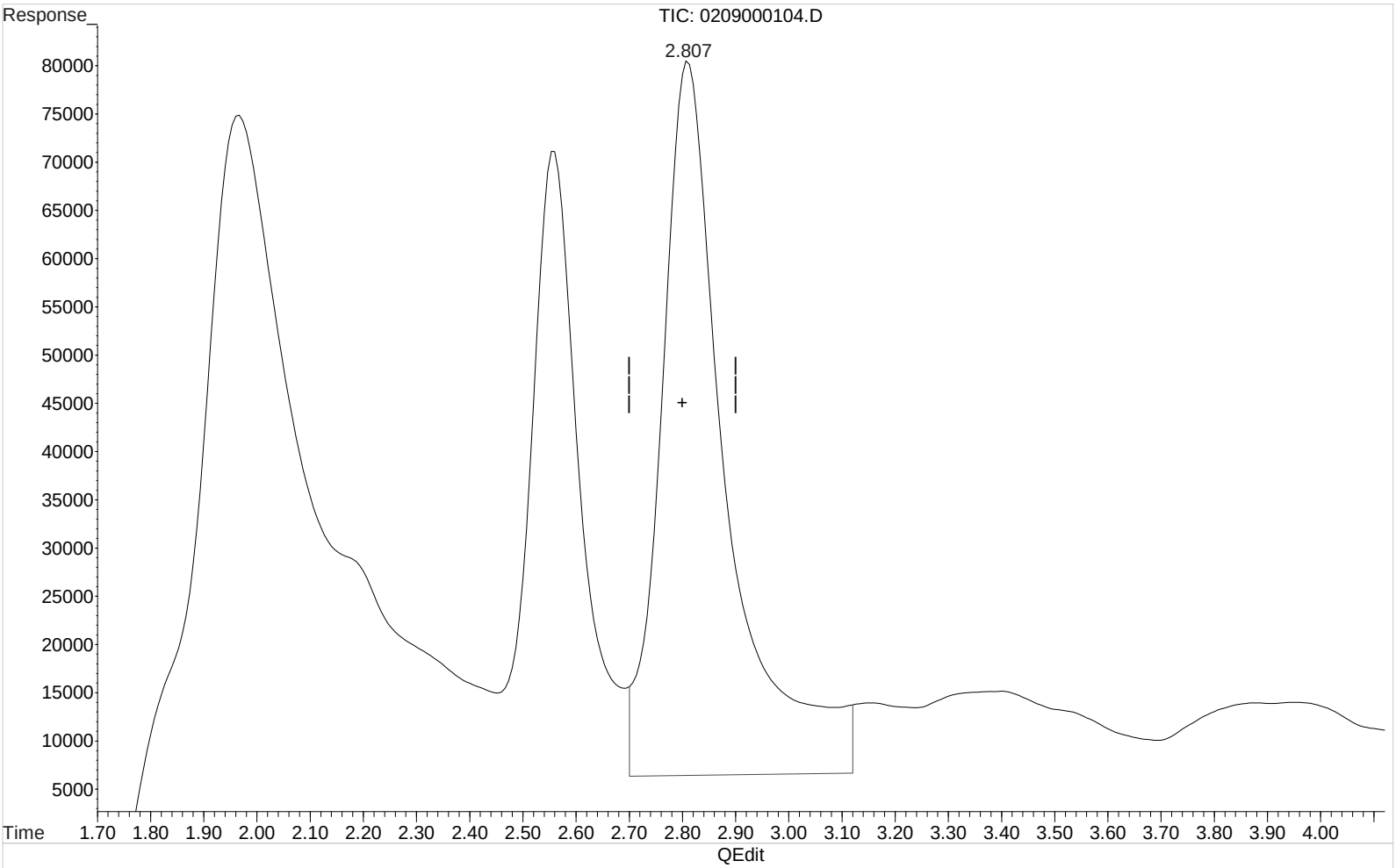
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.807min 34.755 ug/L

response 630962

Manual Integration:

Before

02/13/17

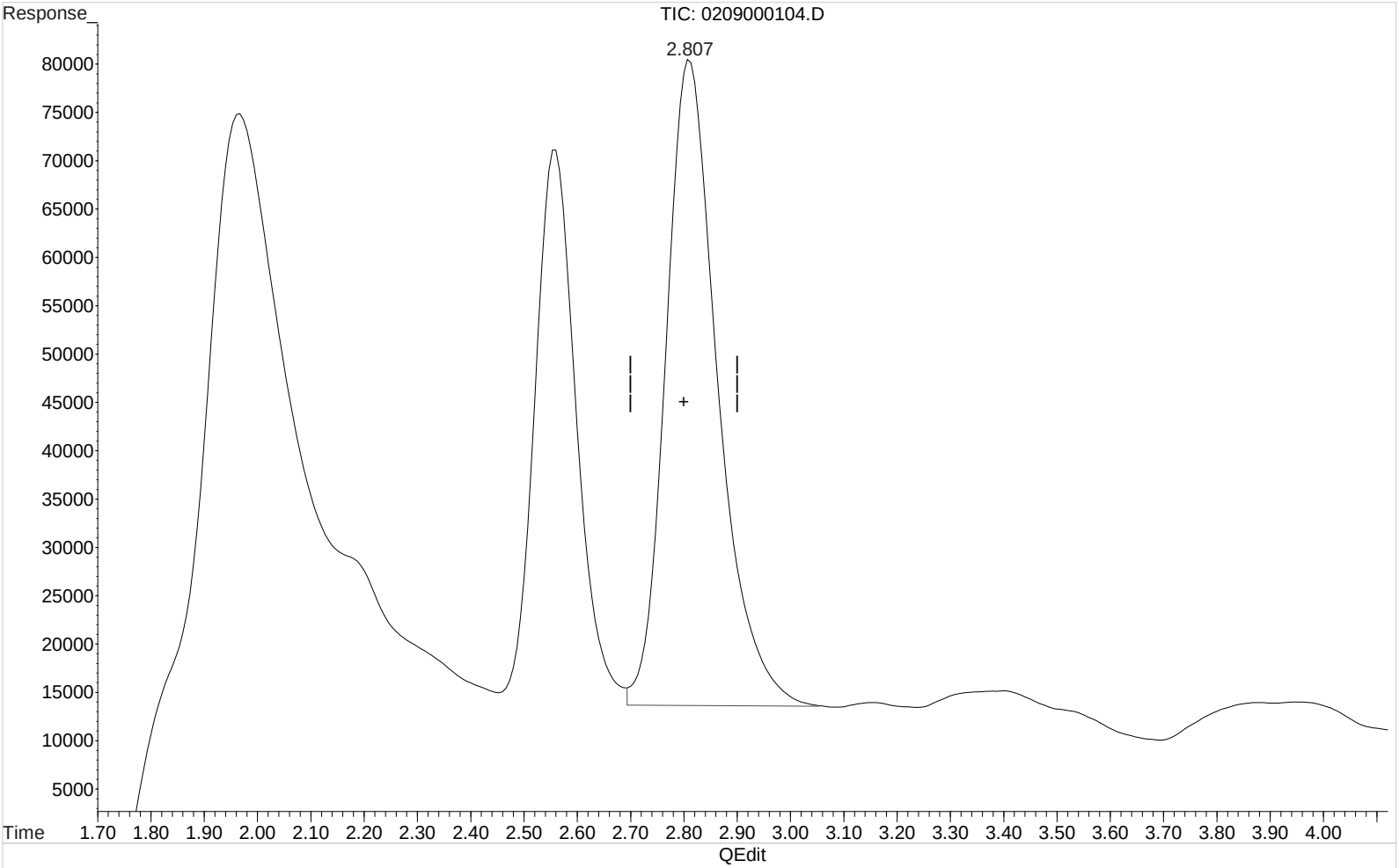
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.807min 24.916 ug/L m

response 452332

Manual Integration:

After

BLC

02/13/17

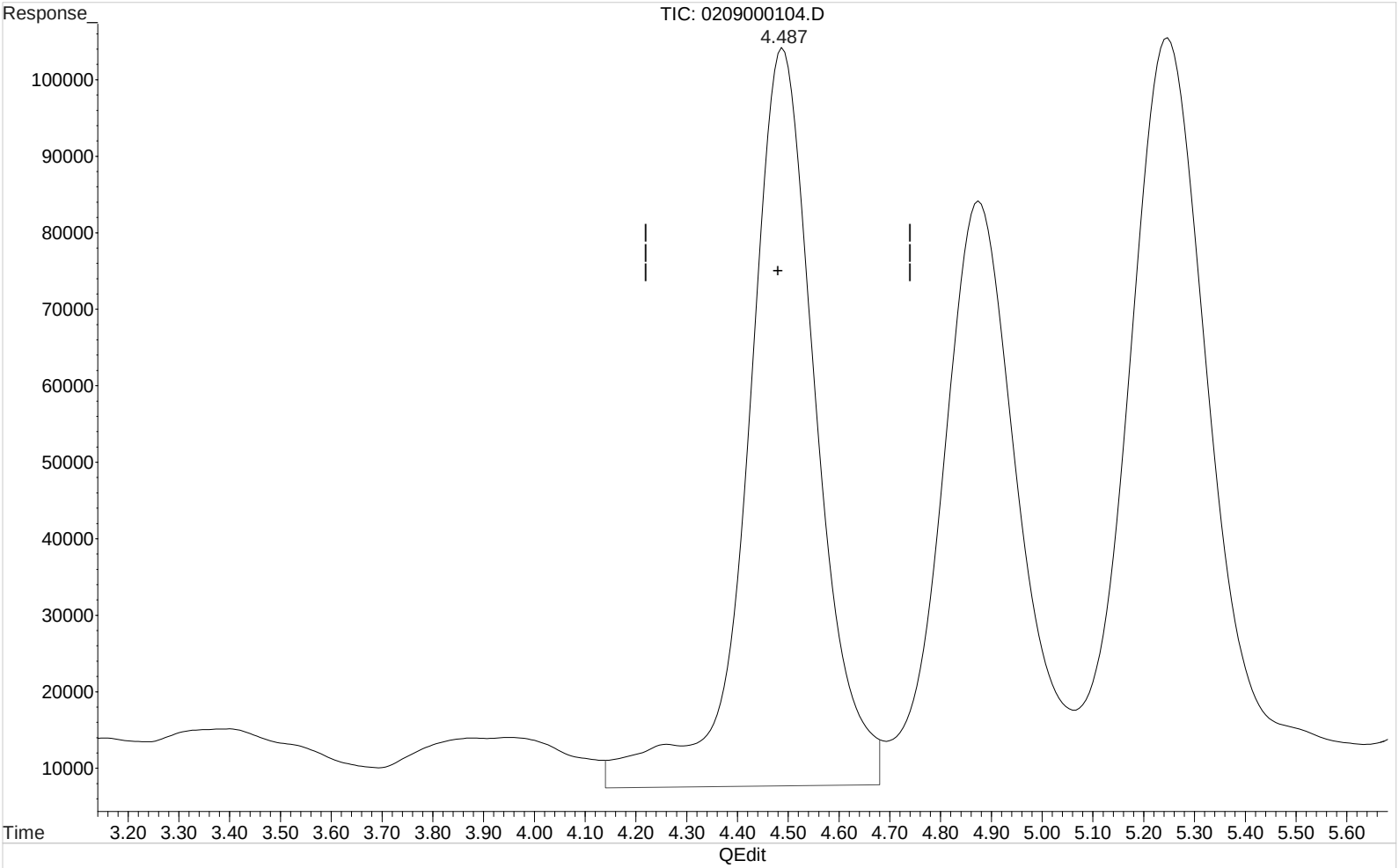
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(3) Nitrobenzene (T)

4.487min 24.547 ug/L

response 913278

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

(b) (6)

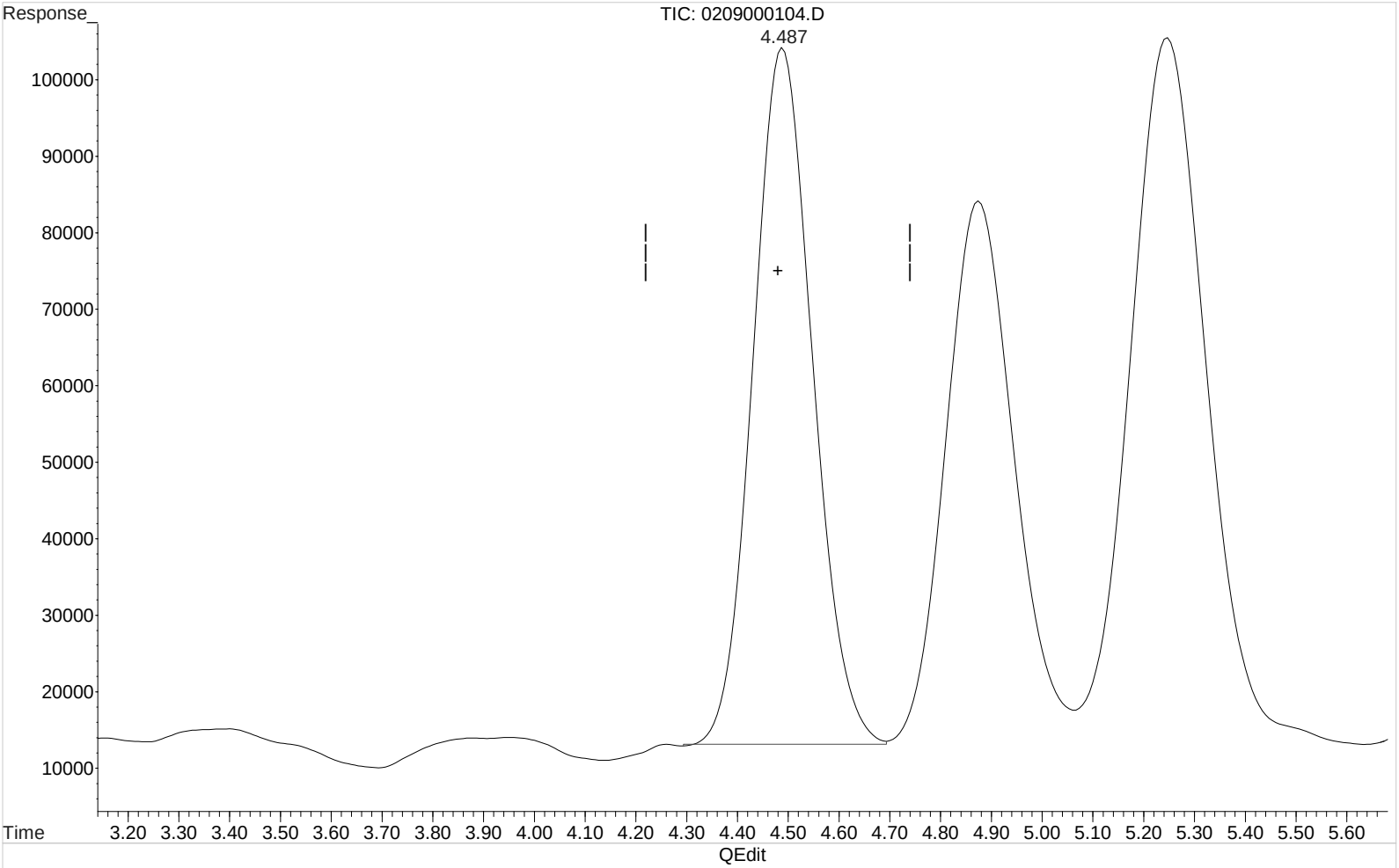
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(3) Nitrobenzene (T)

4.487min 19.991 ug/L m

response 743763

Manual Integration:

After

BLC

02/13/17

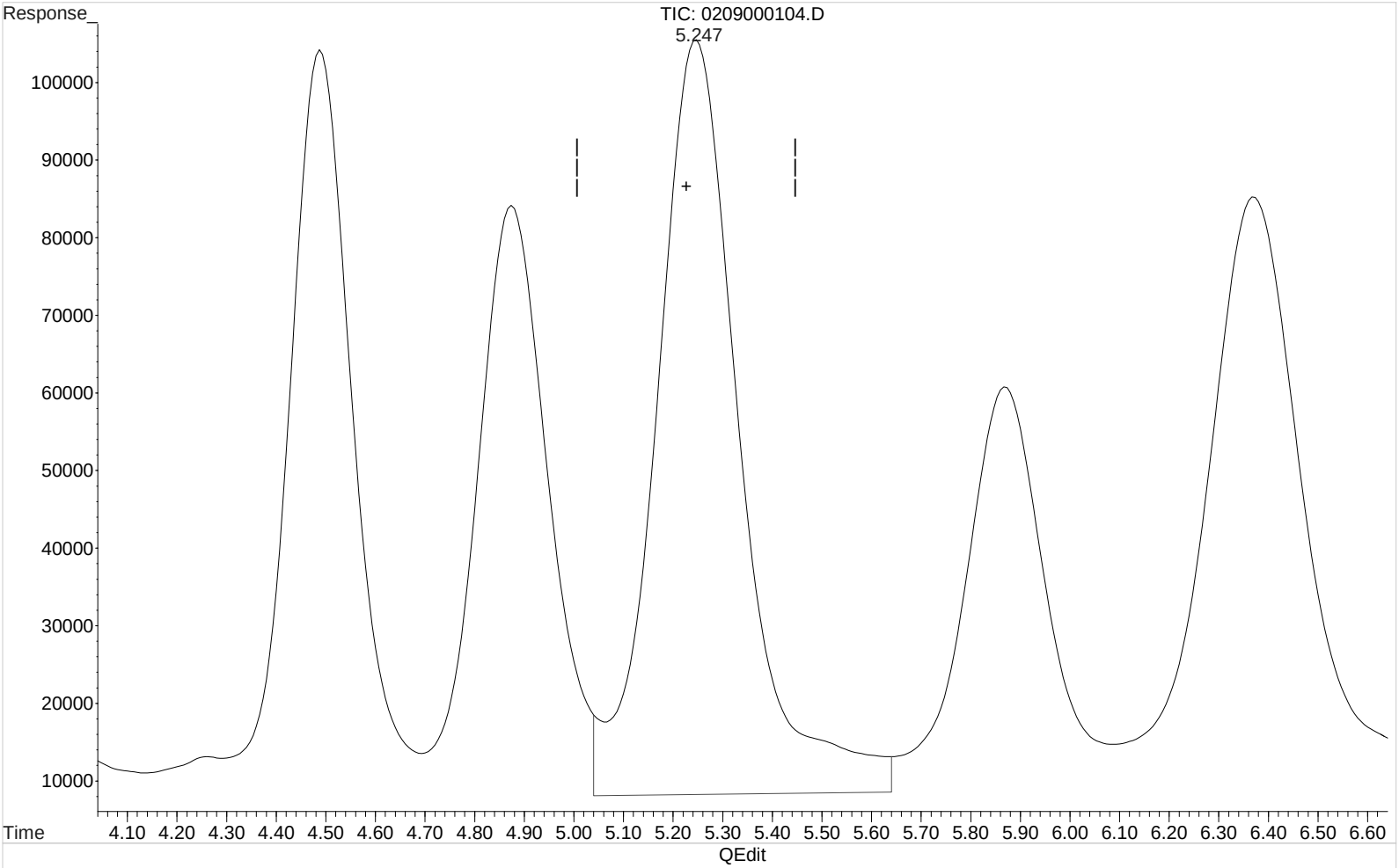
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(4) 3,5-Dinitroaniline (T)

5.247min 24.596 ug/L

response 1138541

Manual Integration:

Before

02/13/17

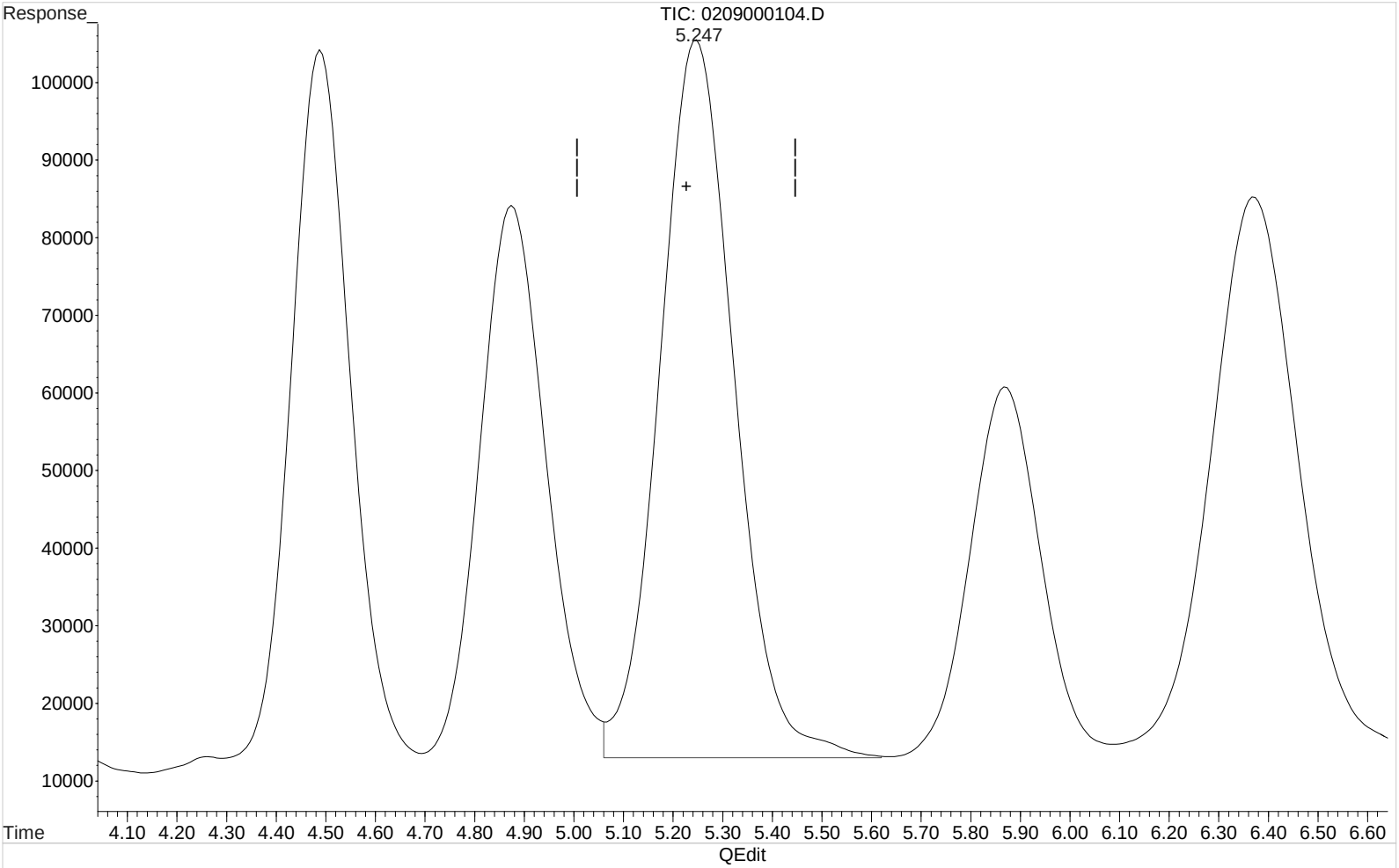
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(4) 3,5-Dinitroaniline (T)

5.247min 20.844 ug/L m

response 964857

Manual Integration:

After

BLC

02/13/17

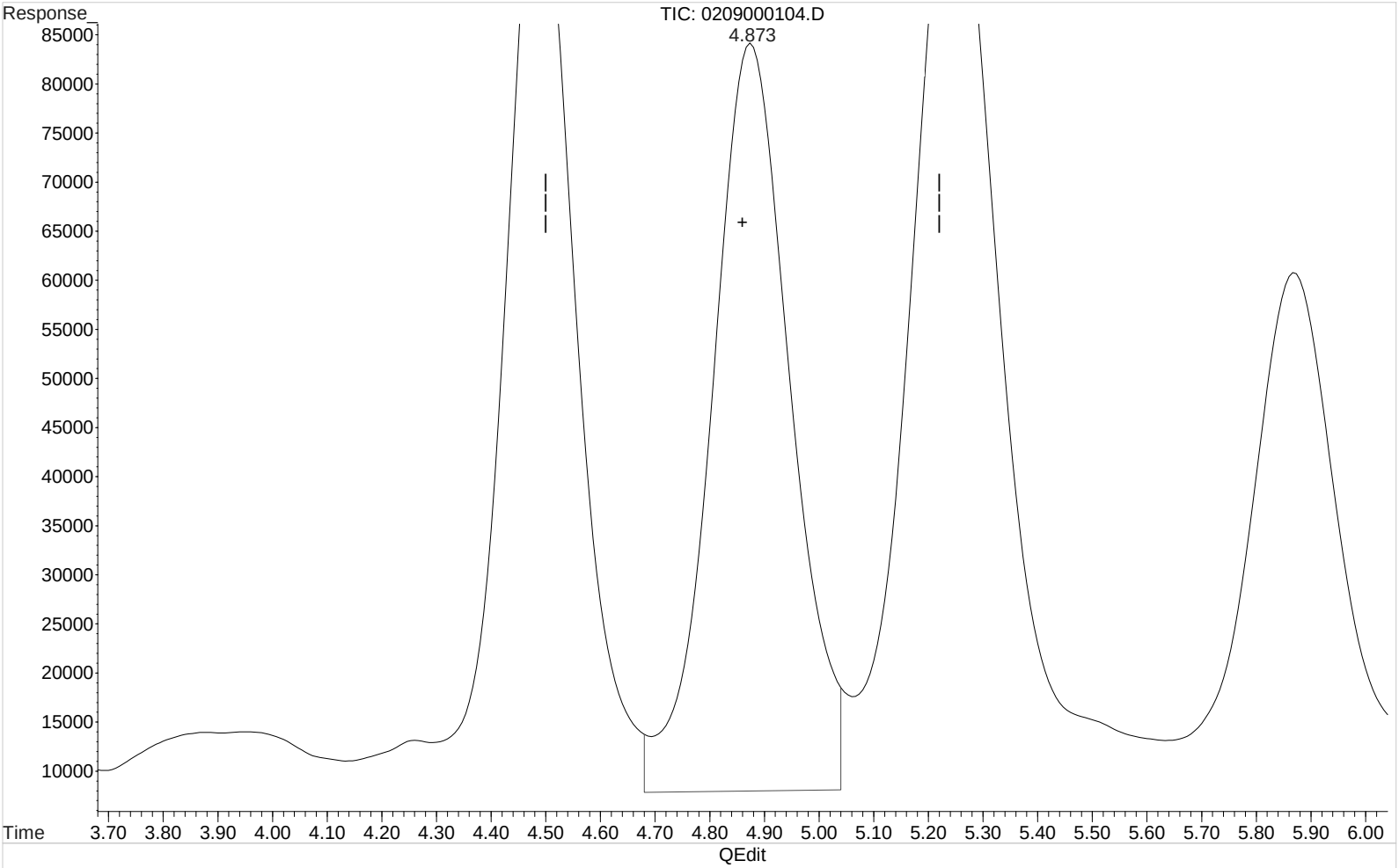
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(5) 4-Amino-2,6-DNT (T)

4.873min 24.112 ug/L

response 765953

Manual Integration:

Before

02/13/17

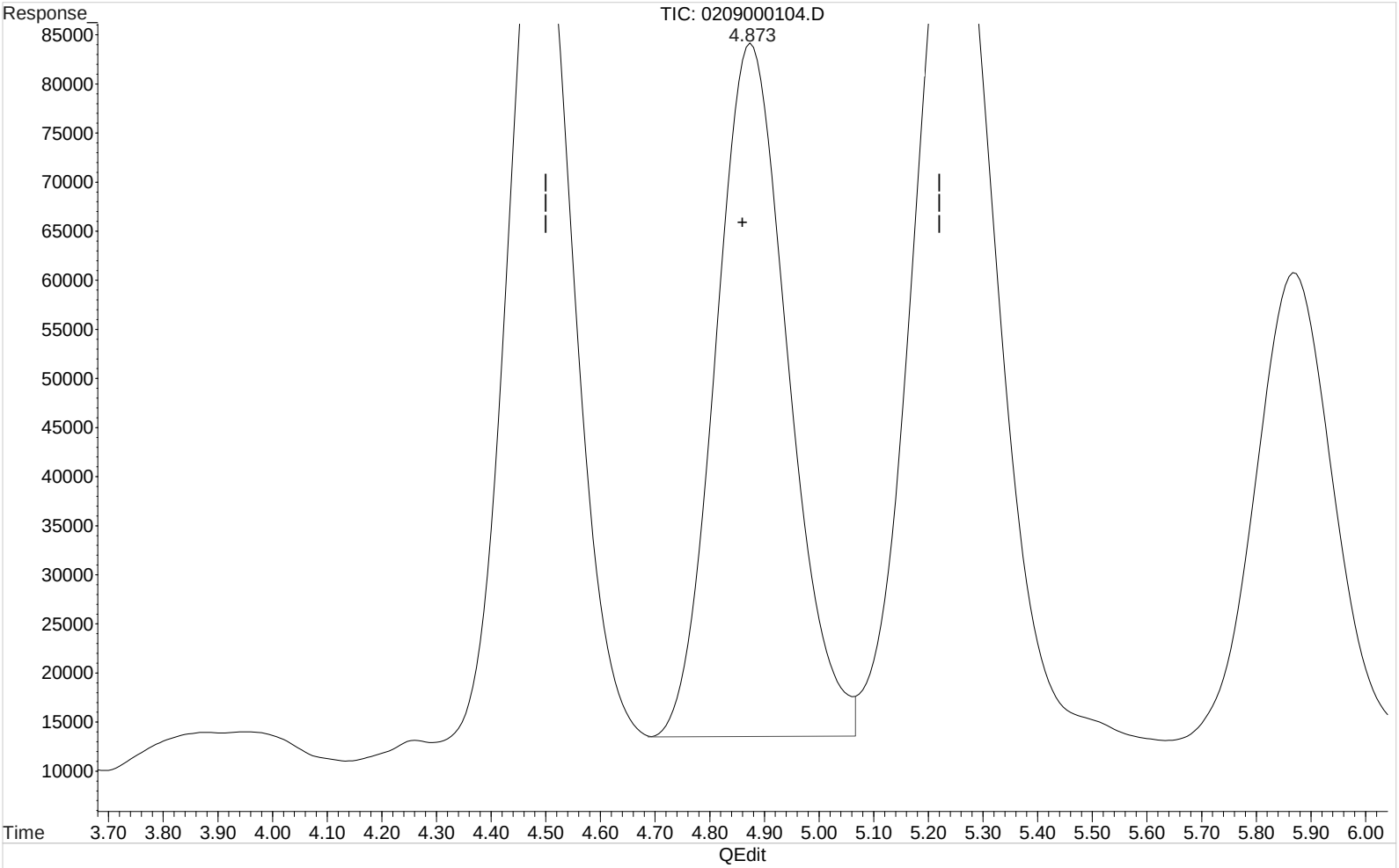
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(5) 4-Amino-2,6-DNT (T)

4.873min 20.547 ug/L m

response 652694

Manual Integration:

After

BLC

02/13/17

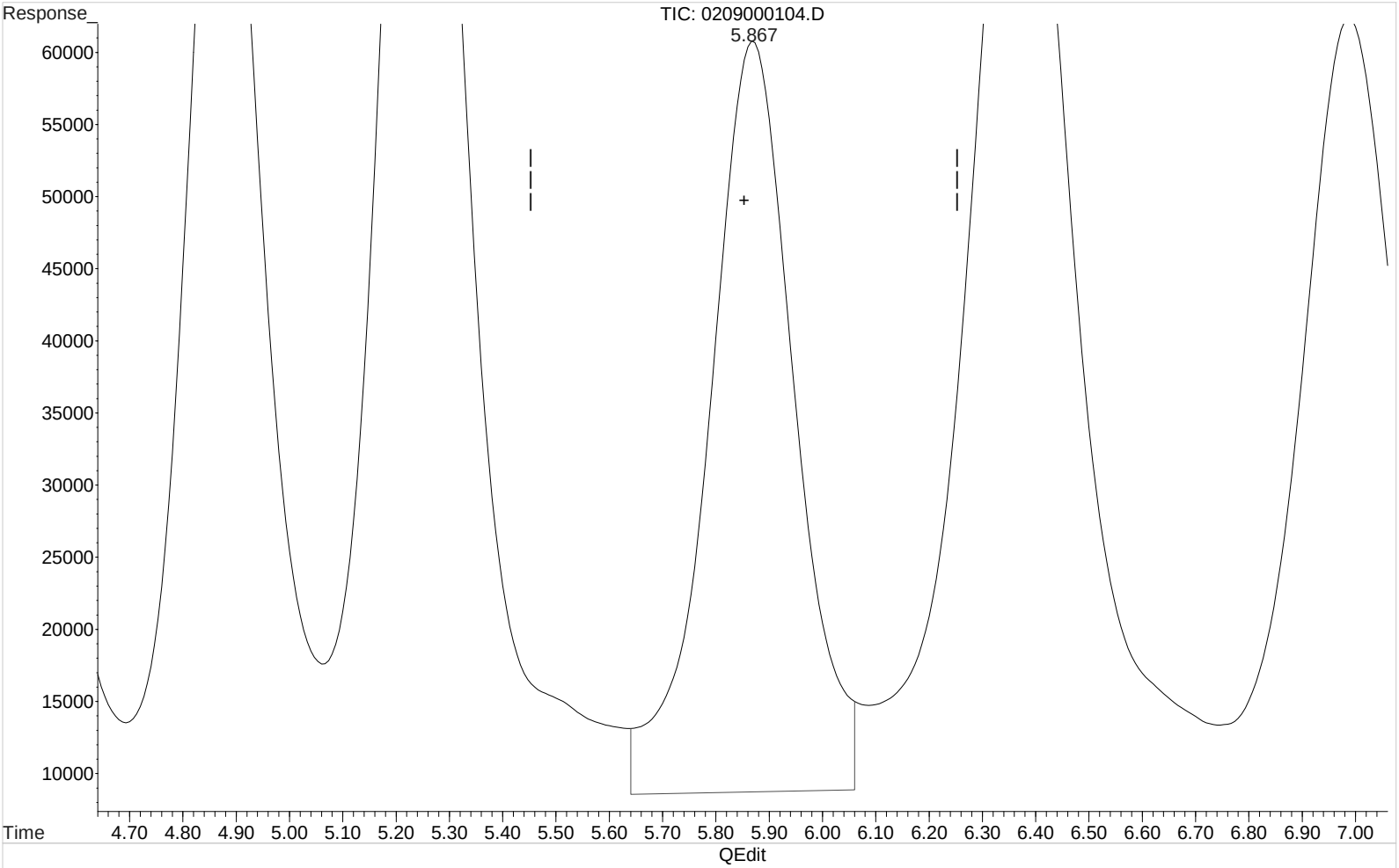
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.867min 24.679 ug/L

response 581023

Manual Integration:

Before

02/13/17

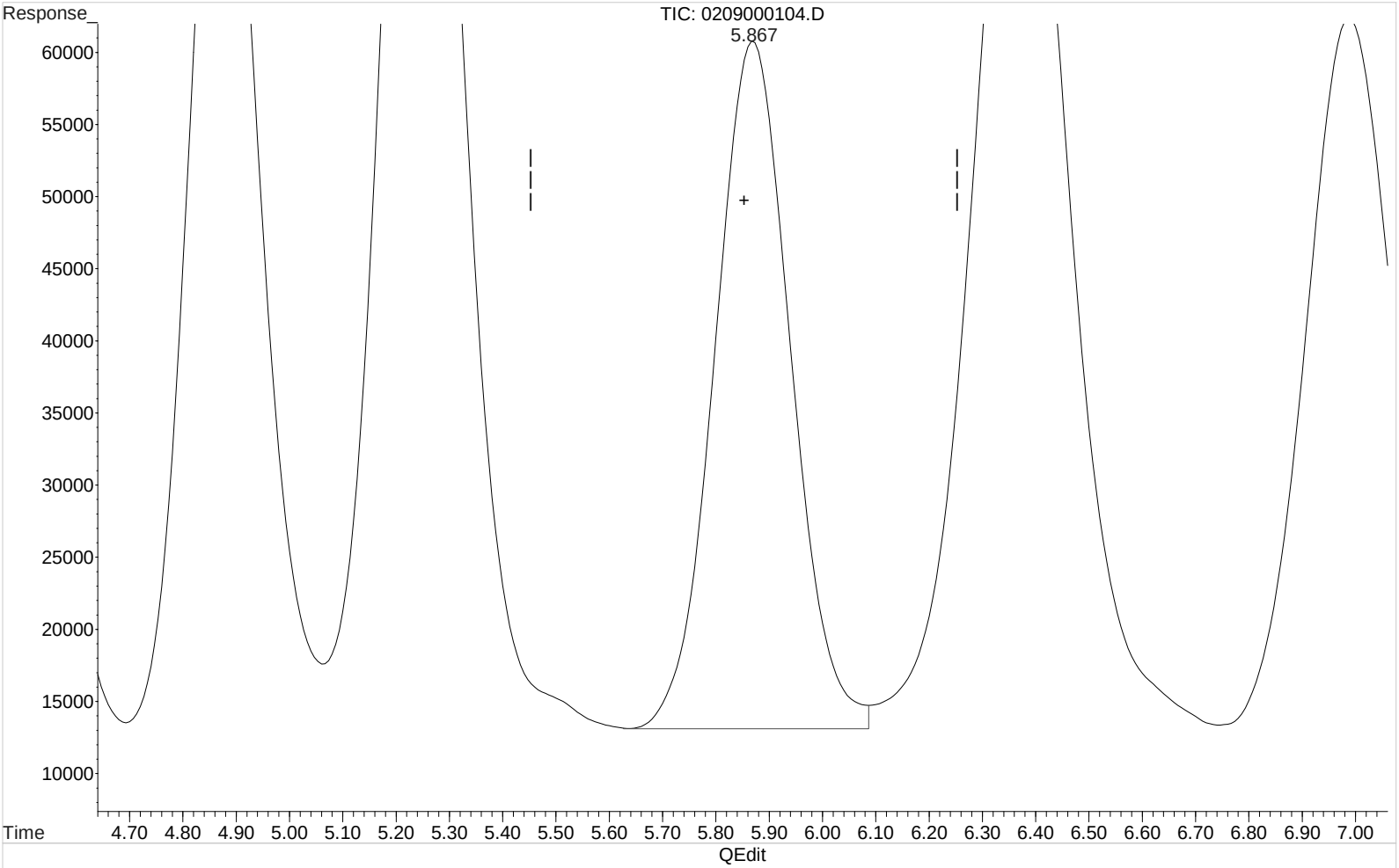
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.867min 20.100 ug/L m

response 473214

Manual Integration:

After

BLC

02/13/17

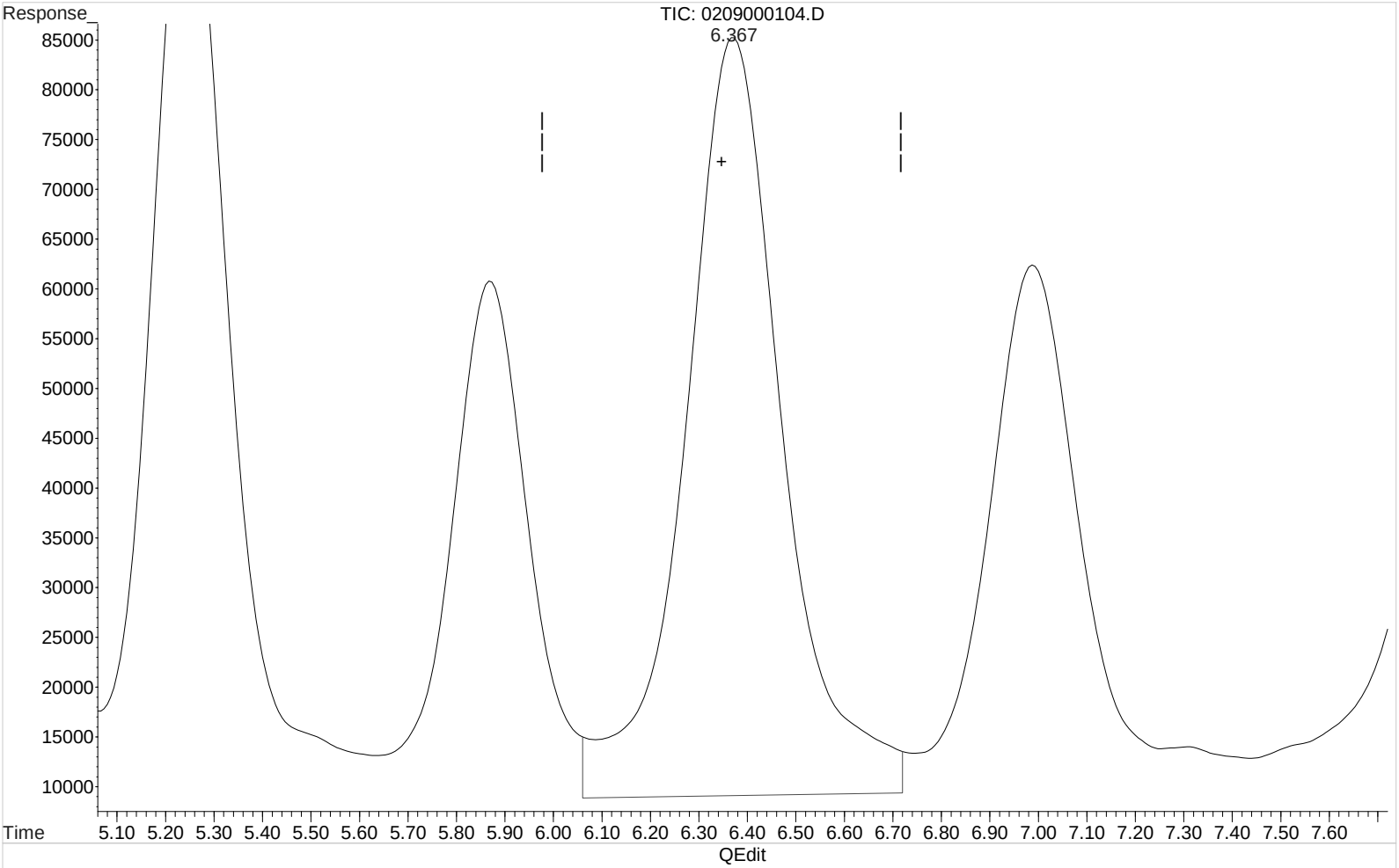
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.367min 25.225 ug/L

response 1057778

Manual Integration:

Before

02/13/17

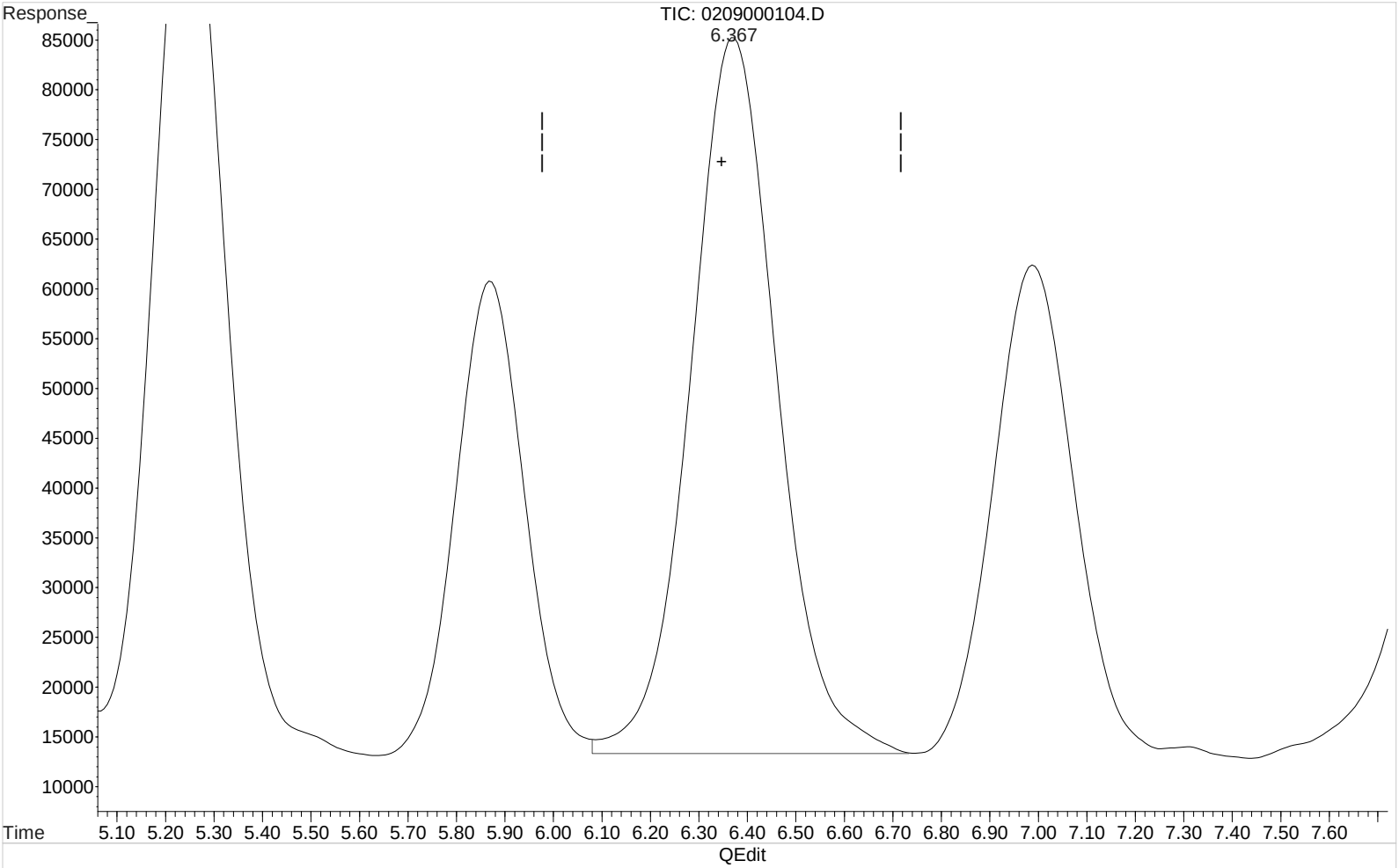
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.367min 21.218 ug/L m

response 889746

Manual Integration:

After

BLC

02/13/17

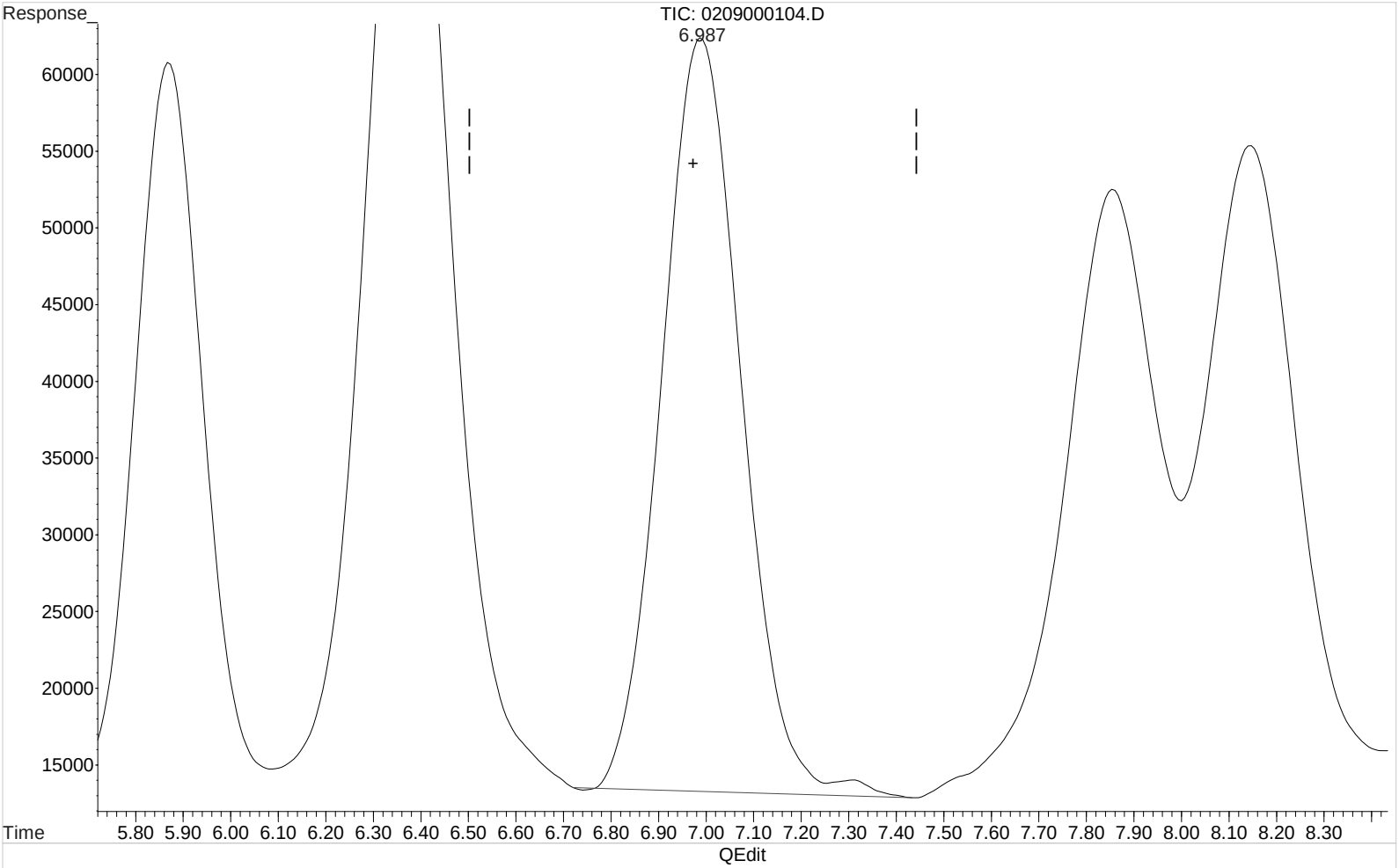
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(8) 3-NT (T)

6.987min 20.561 ug/L

response 573667

Manual Integration:

Before

02/13/17

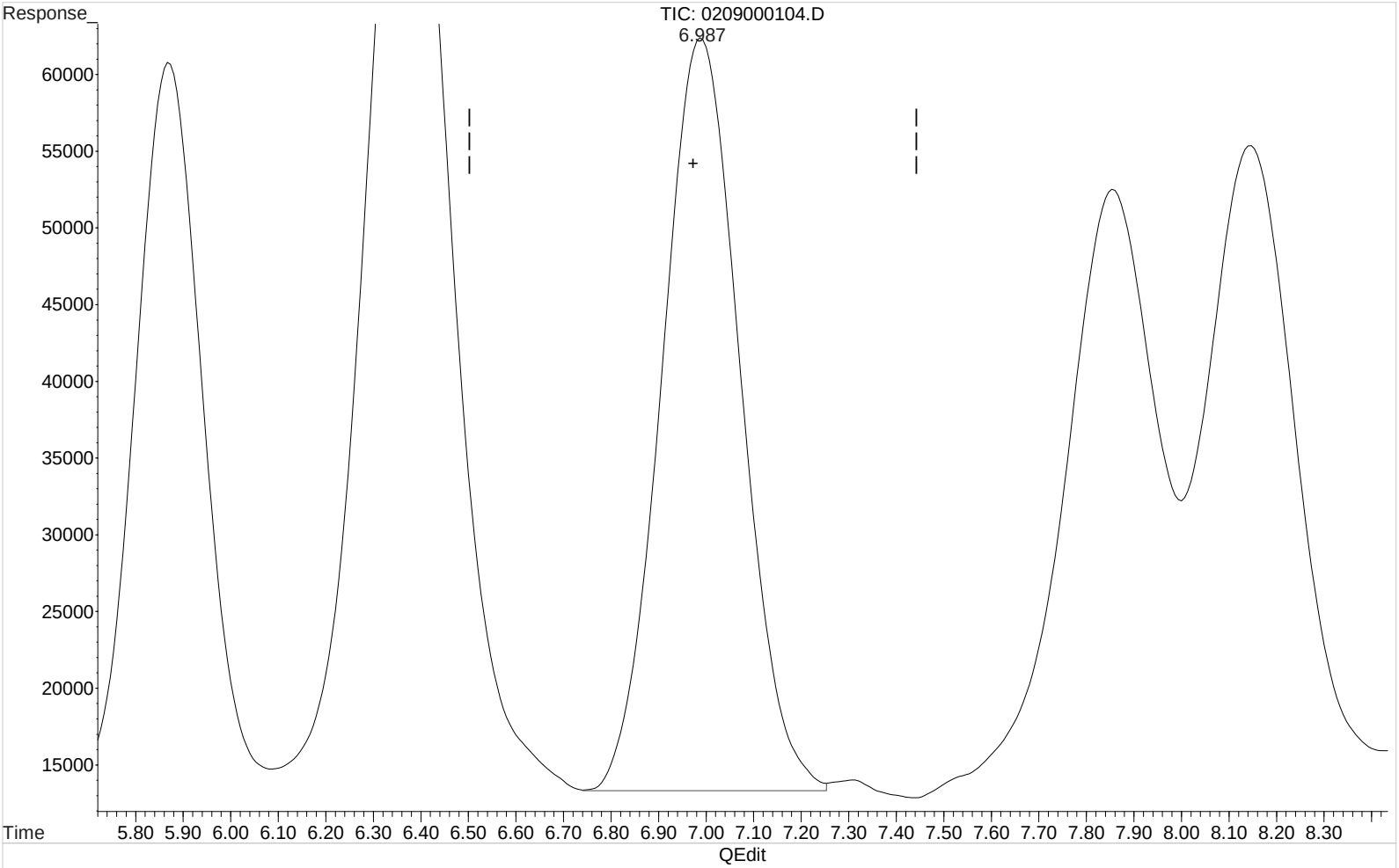
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(8) 3-NT (T)

6.987min 20.307 ug/L m

response 566568

Manual Integration:

After

BLC

02/13/17

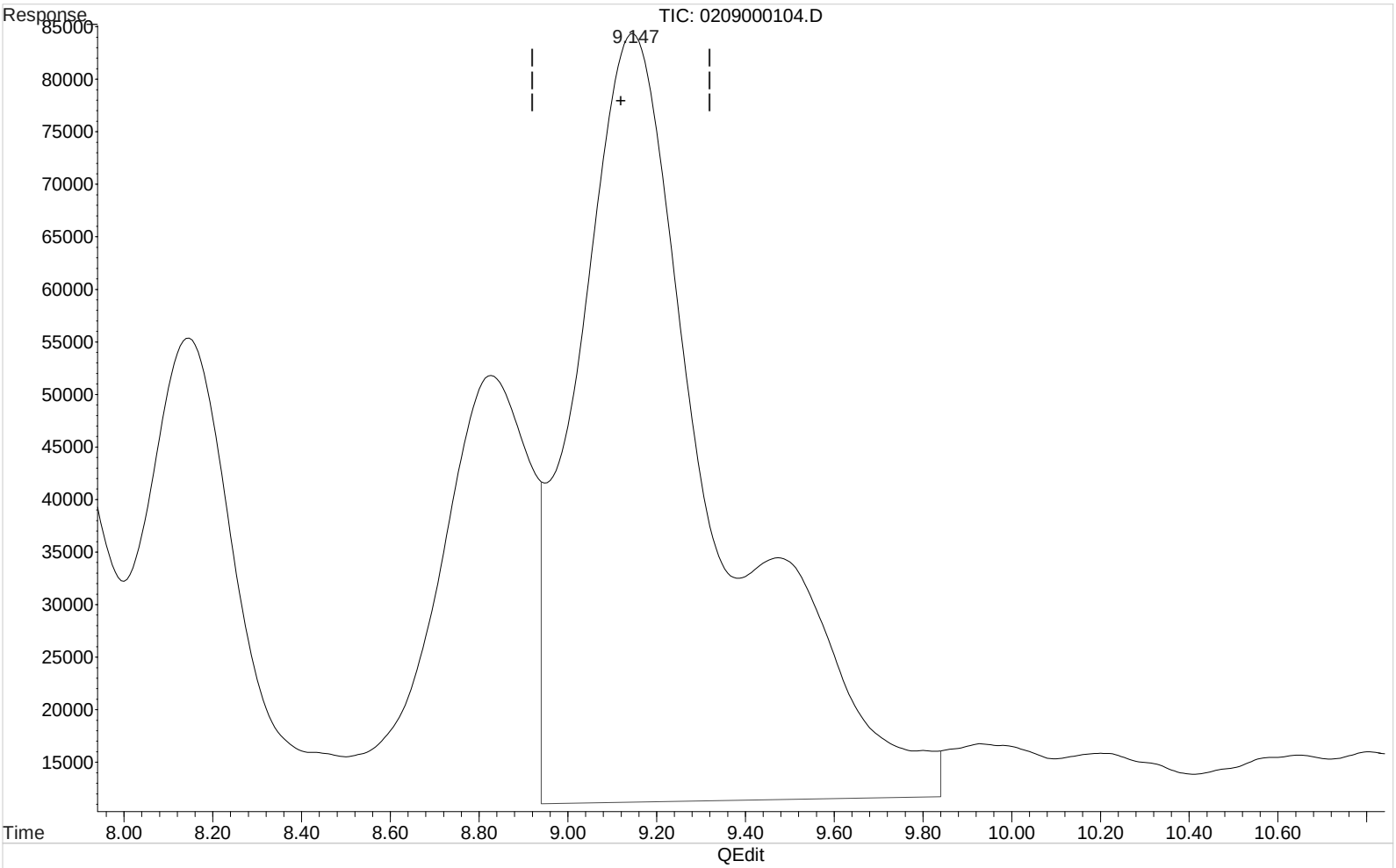
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(9) 1,3-DNB (T)

9.147min 28.638 ug/L

response 1600738

Manual Integration:

Before

02/13/17

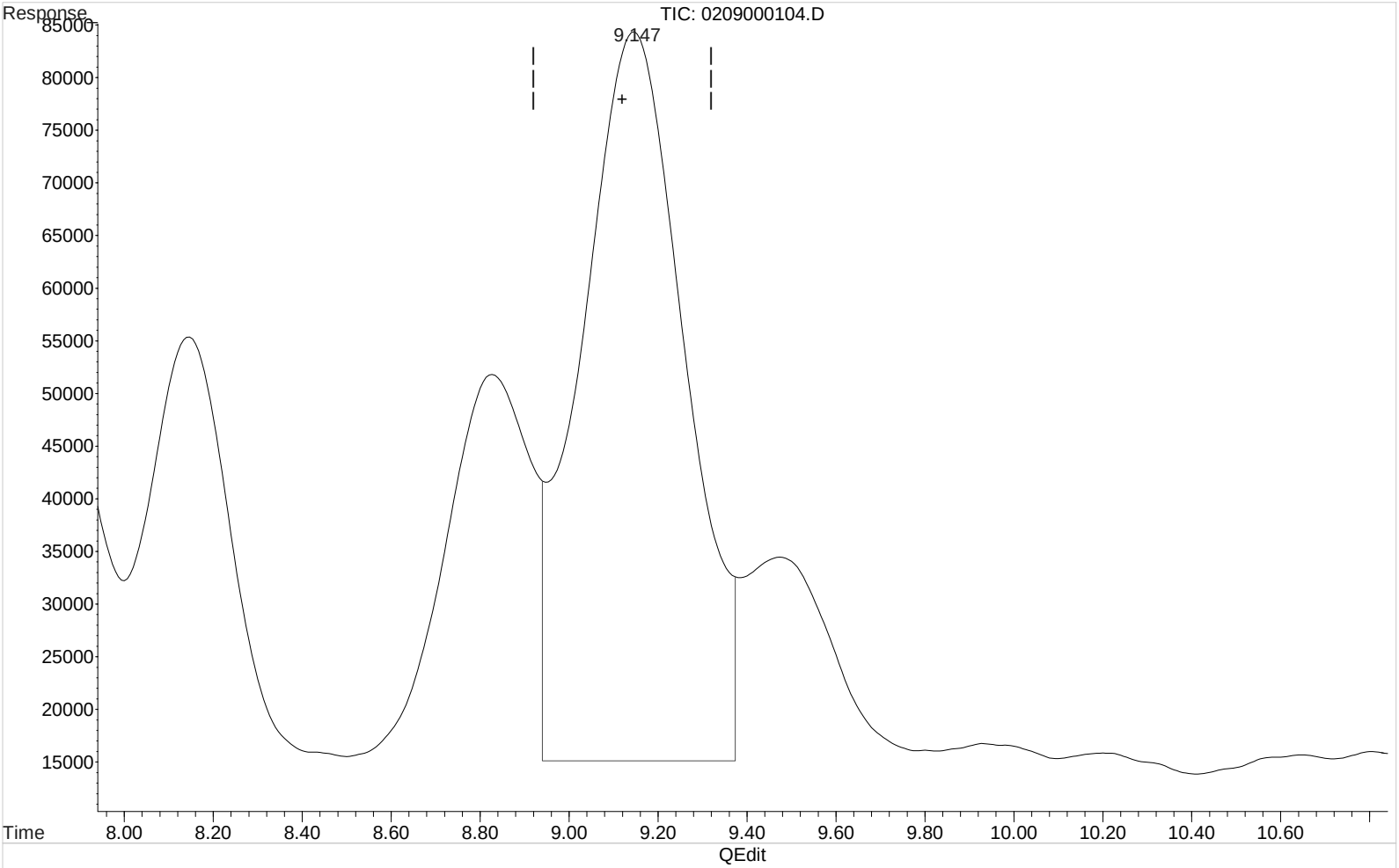
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(9) 1,3-DNB (T)

9.147min 20.188 ug/L m

response 1128441

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:12:28 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
11) S	1-Chloro-3-Nitrobenzene	8.147	1336894	50.757	ug/L	
	Target Compounds					
1) T	HMX	2.560	778040	49.560	ug/L	m
2) T	RDX	2.807	976620	54.310	ug/L	m
3) T	Nitrobenzene	4.493	1930068	52.121	ug/L	m
4) T	3,5-Dinitroaniline	5.253	2326297	50.288	ug/L	m
5) T	4-Amino-2,6-DNT	4.880	1640782	51.865	ug/L	m
6) T	2-NT	5.873	1175129	49.902	ug/L	m
7) T	2-Amino-4,6-DNT	6.373	2151466	51.475	ug/L	
8) T	3-NT	6.993	1417335	50.902	ug/L	
9) T	1,3-DNB	9.147	2937294	52.887	ug/L	
10) T	4-NT	7.853	1198086	52.690	ug/L	m
12) T	2,6-DNT	8.833	1216672	49.709	ug/L	
13) T	2,4-DNT	14.827	2785081	54.635	ug/L	
14) T	Tetryl	13.013	1450932	49.712	ug/L	m
15) T	1,3,5-TNB	19.827	2198383	53.482	ug/L	m
16) T	2,4,6-TNT	20.813	1897768	49.120	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:12:28 2017
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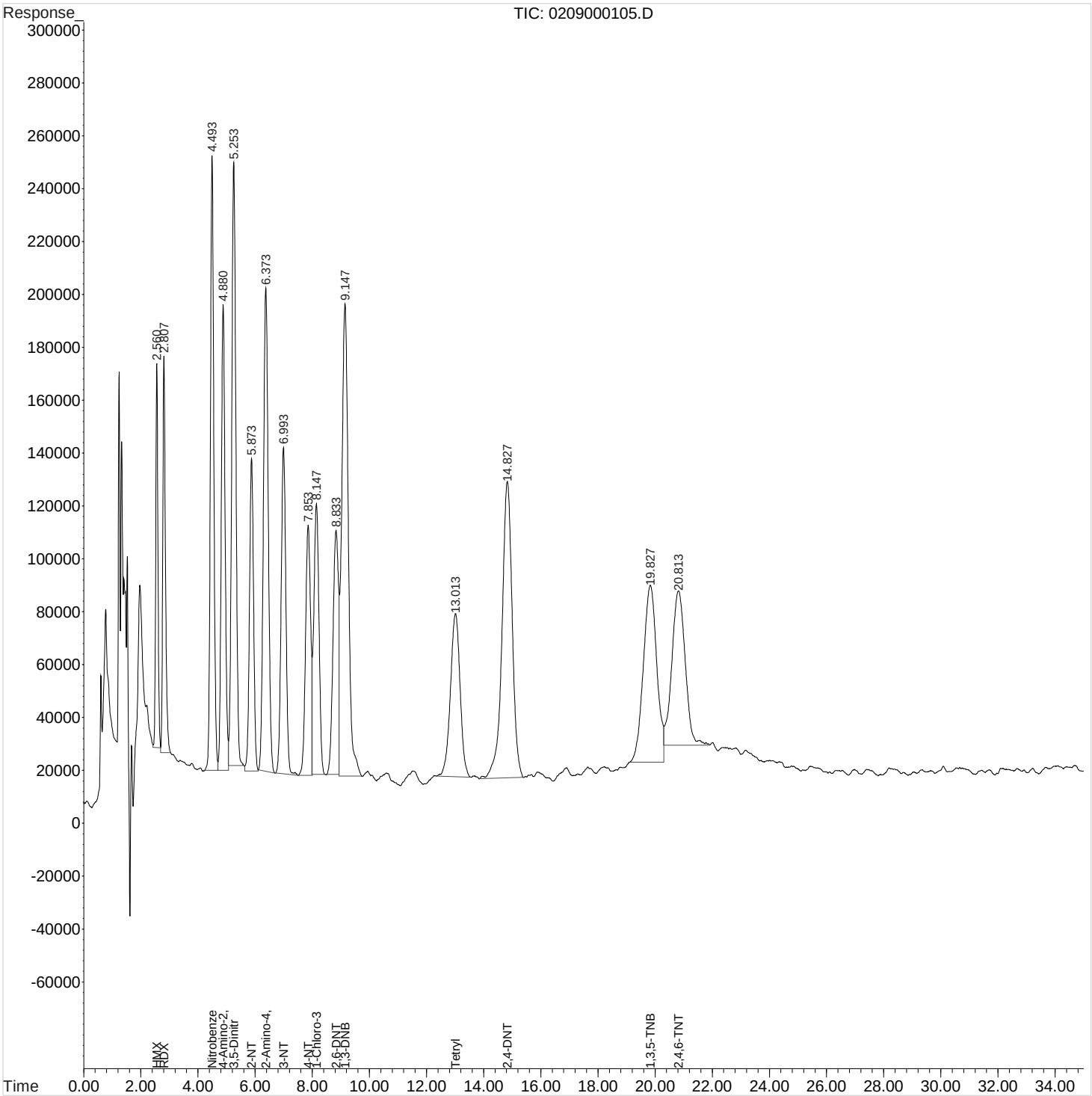
Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

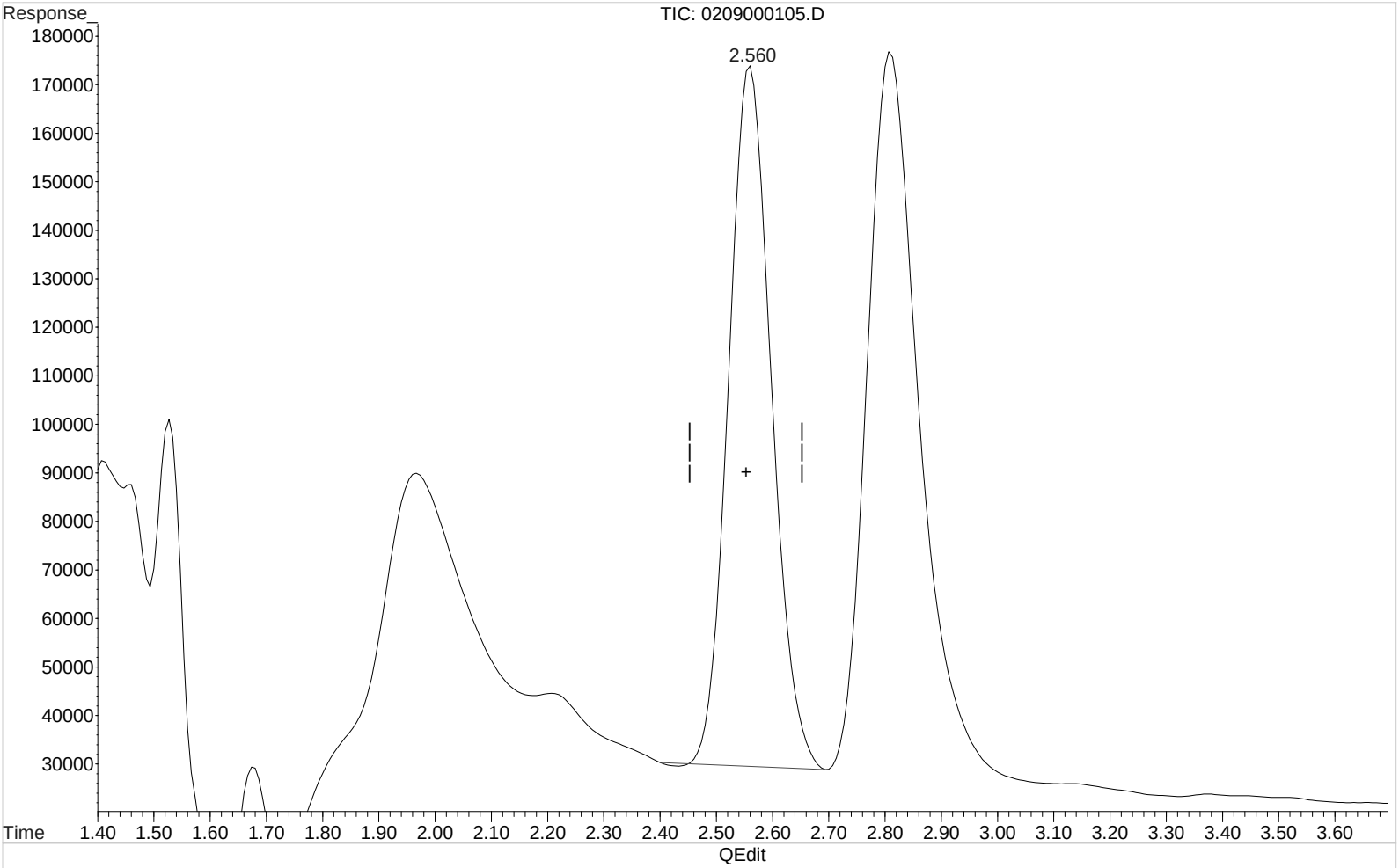


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.560min 48.616 ug/L

response 763221

Manual Integration:

Before

02/13/17

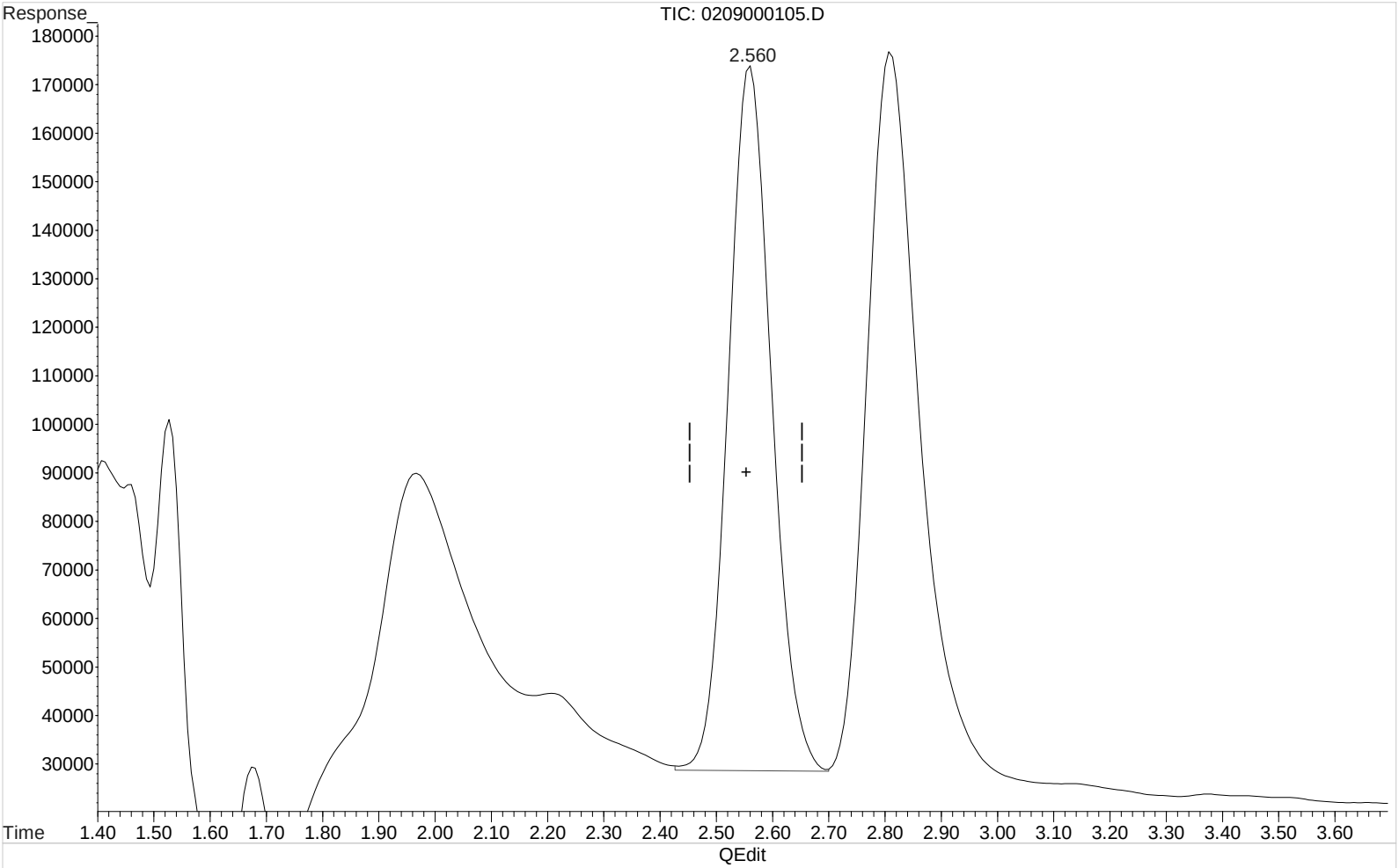
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.560min 49.560 ug/L m

response 778040

Manual Integration:

After

BLC

02/13/17

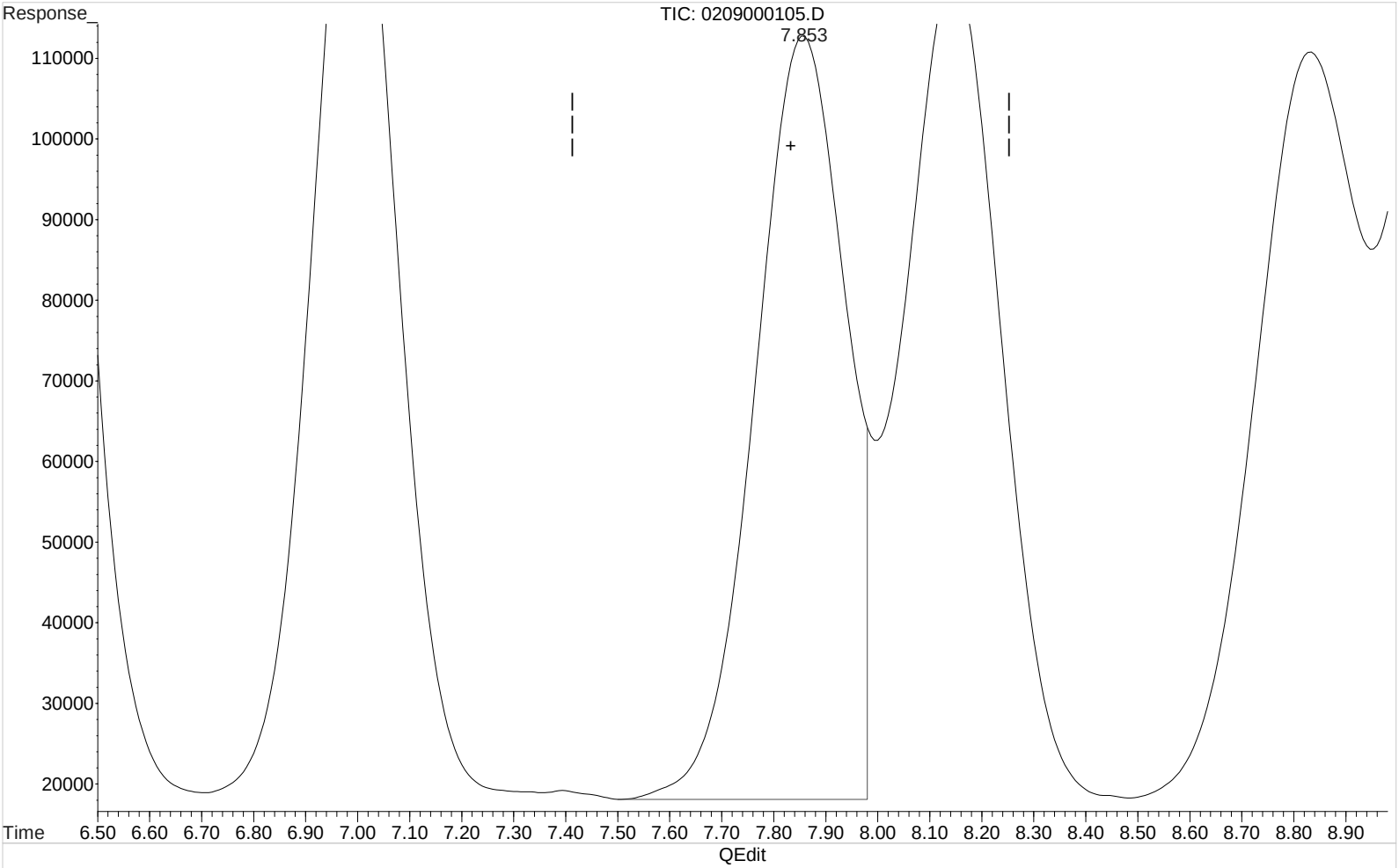
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.853min 50.394 ug/L

response 1145870

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b) (6)

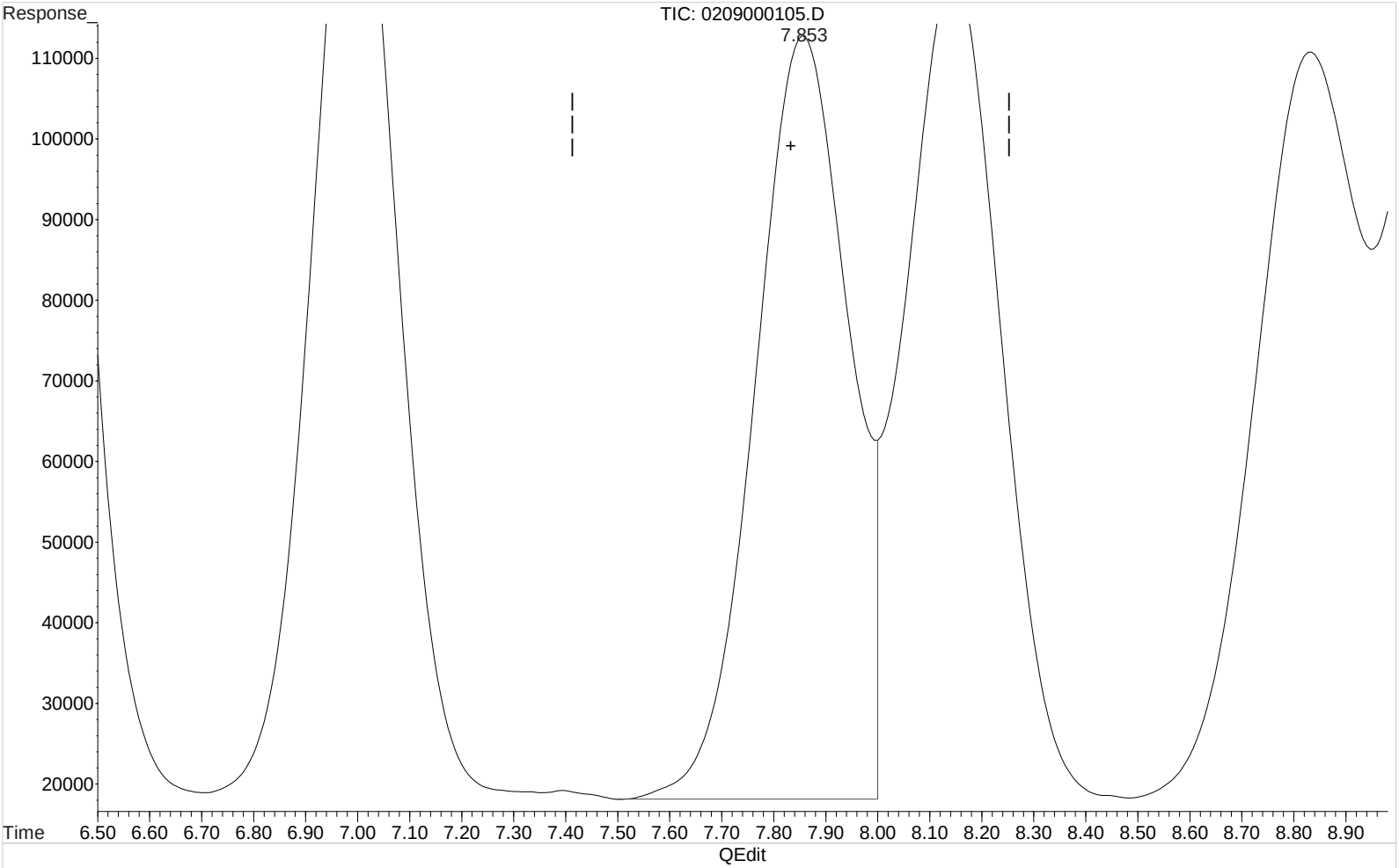
2/13/17

2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.853min 52.690 ug/L m

response 1198086

Manual Integration:

After

BLC

02/13/17

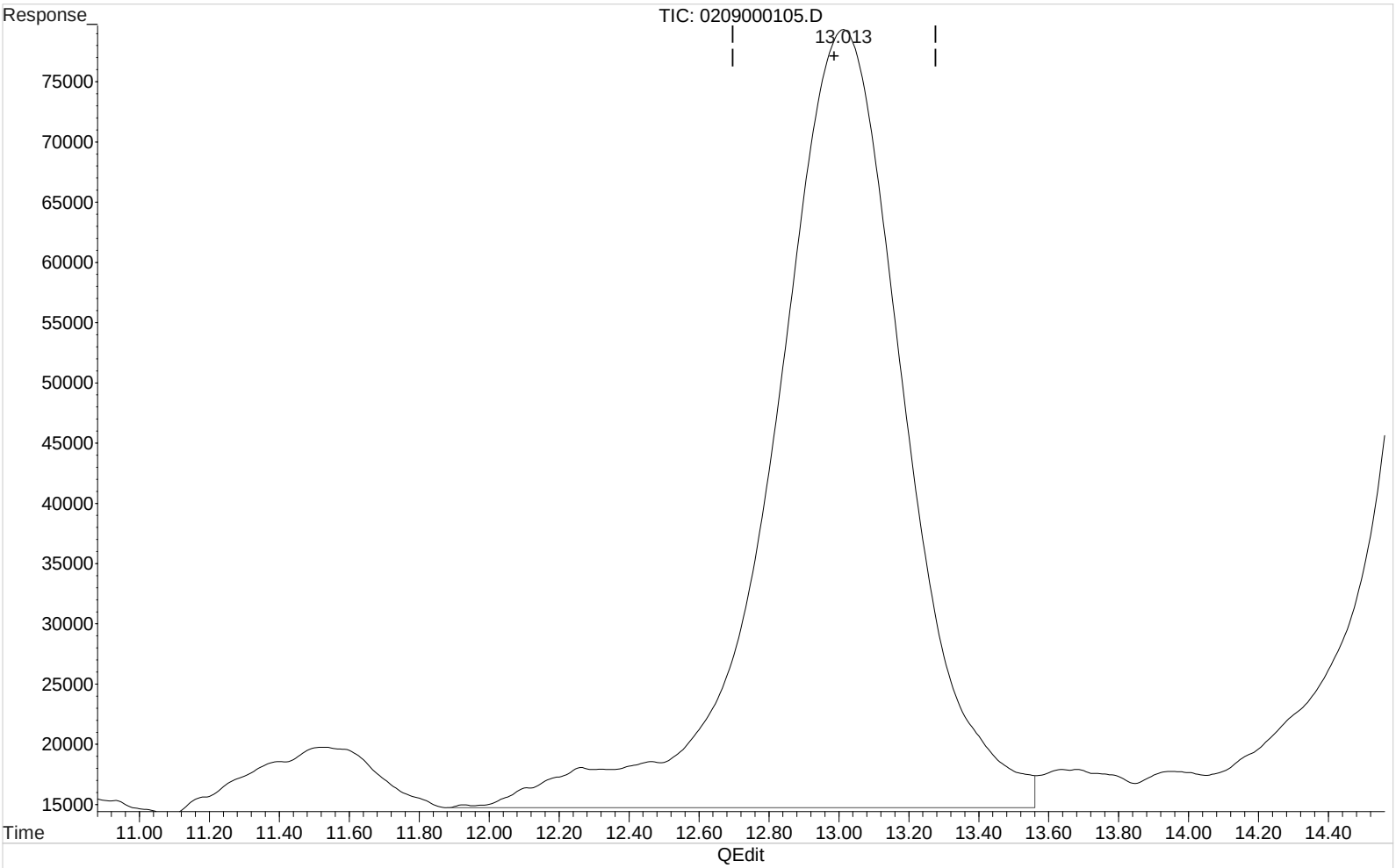
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(14) Tetryl (T)

13.013min 58.523 ug/L

response 1708087

Manual Integration:

Before

02/13/17

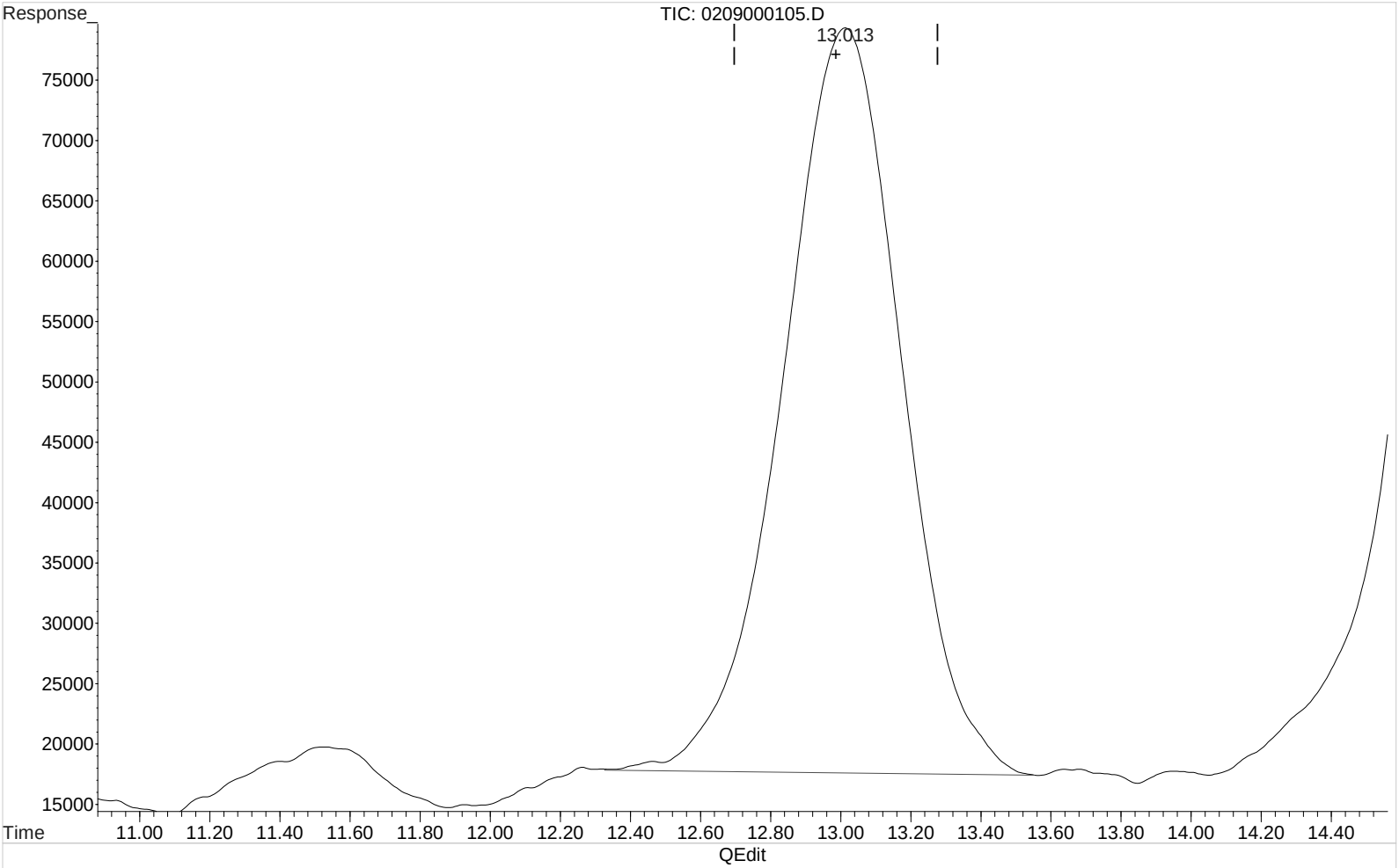
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(14) Tetryl (T)

13.013min 49.712 ug/L m

response 1450932

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
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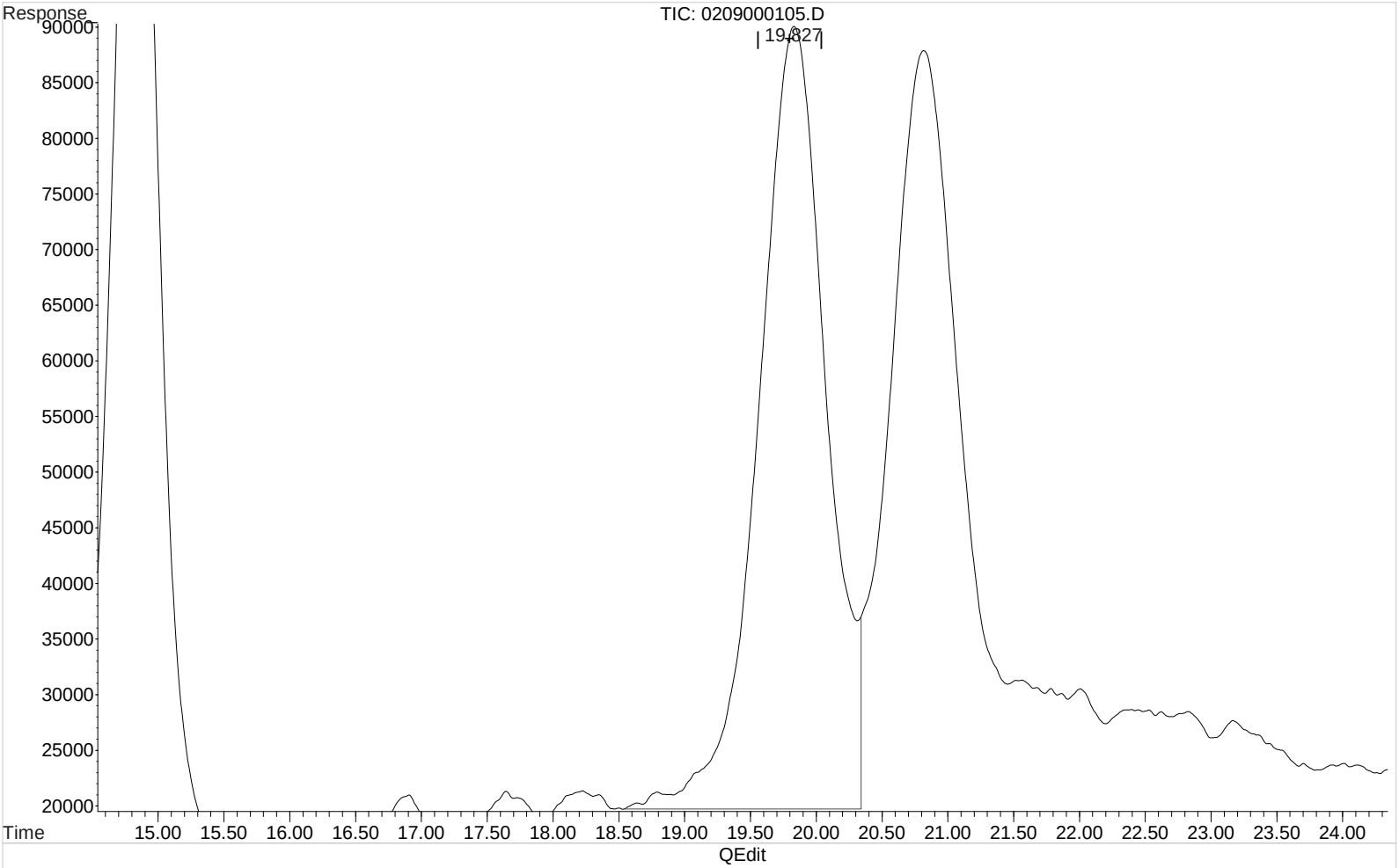
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(15) 1,3,5-TNB (T)

19.827min 61.425 ug/L

response 2524868

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

(b) (6)

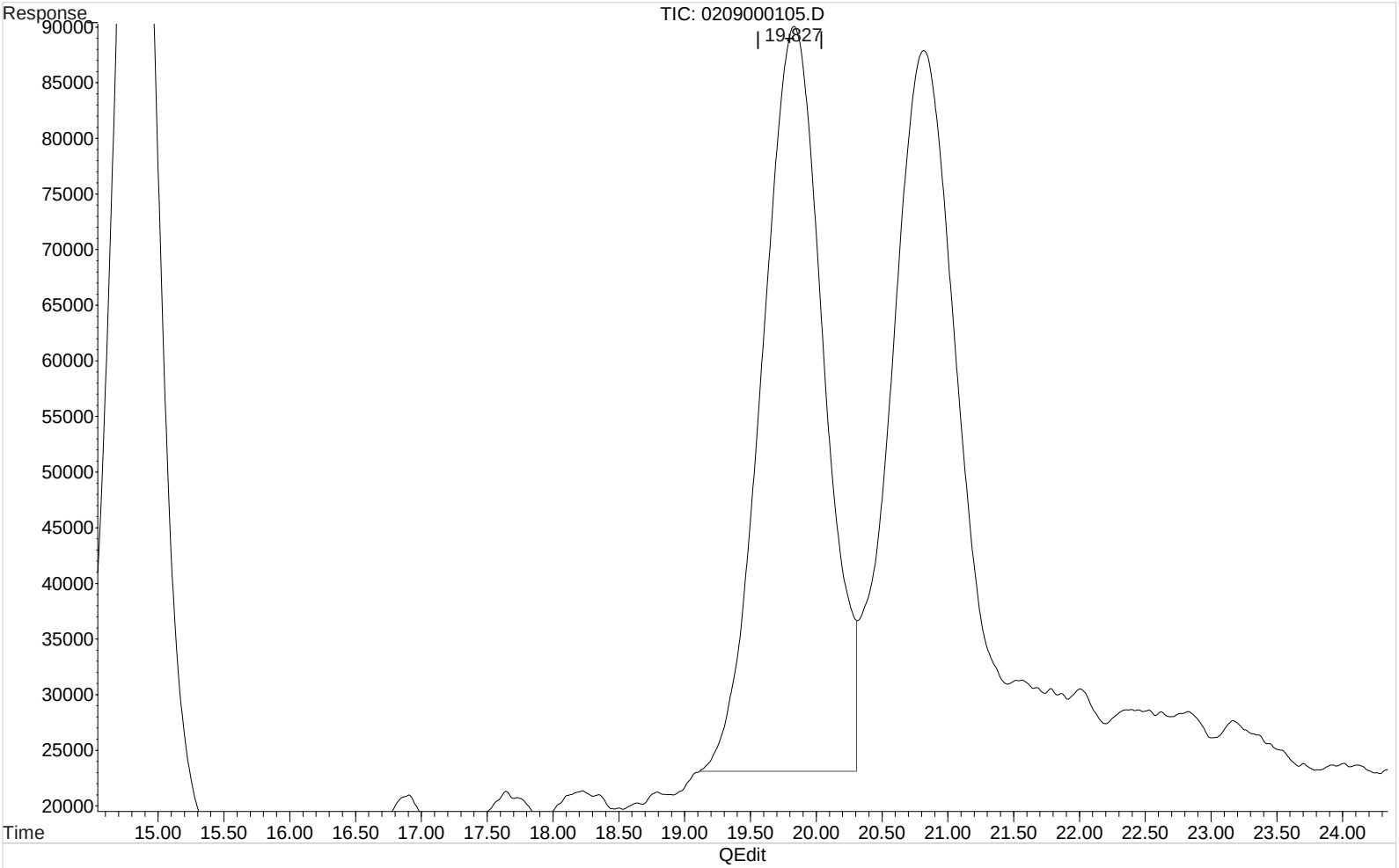
2/13/17

2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(15) 1,3,5-TNB (T)

19.827min 53.482 ug/L m

response 2198383

Manual Integration:

After

BLC

02/13/17

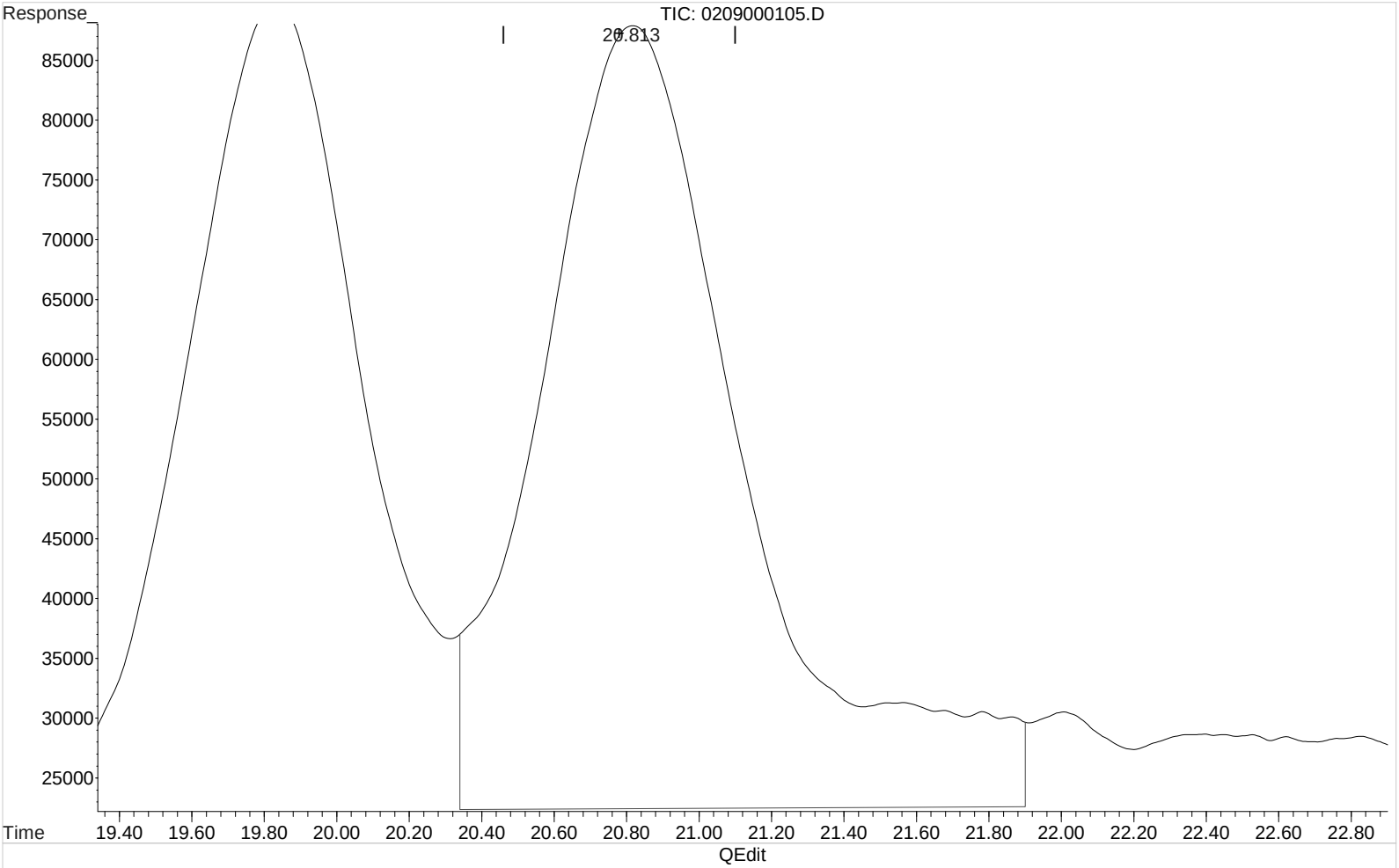
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(16) 2,4,6-TNT (T)

20.813min 65.772 ug/L

response 2541132

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

(b) (6)

2/13/17

2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
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Quant Method : J:\LC08\Method\020917_Short_8330@254.M
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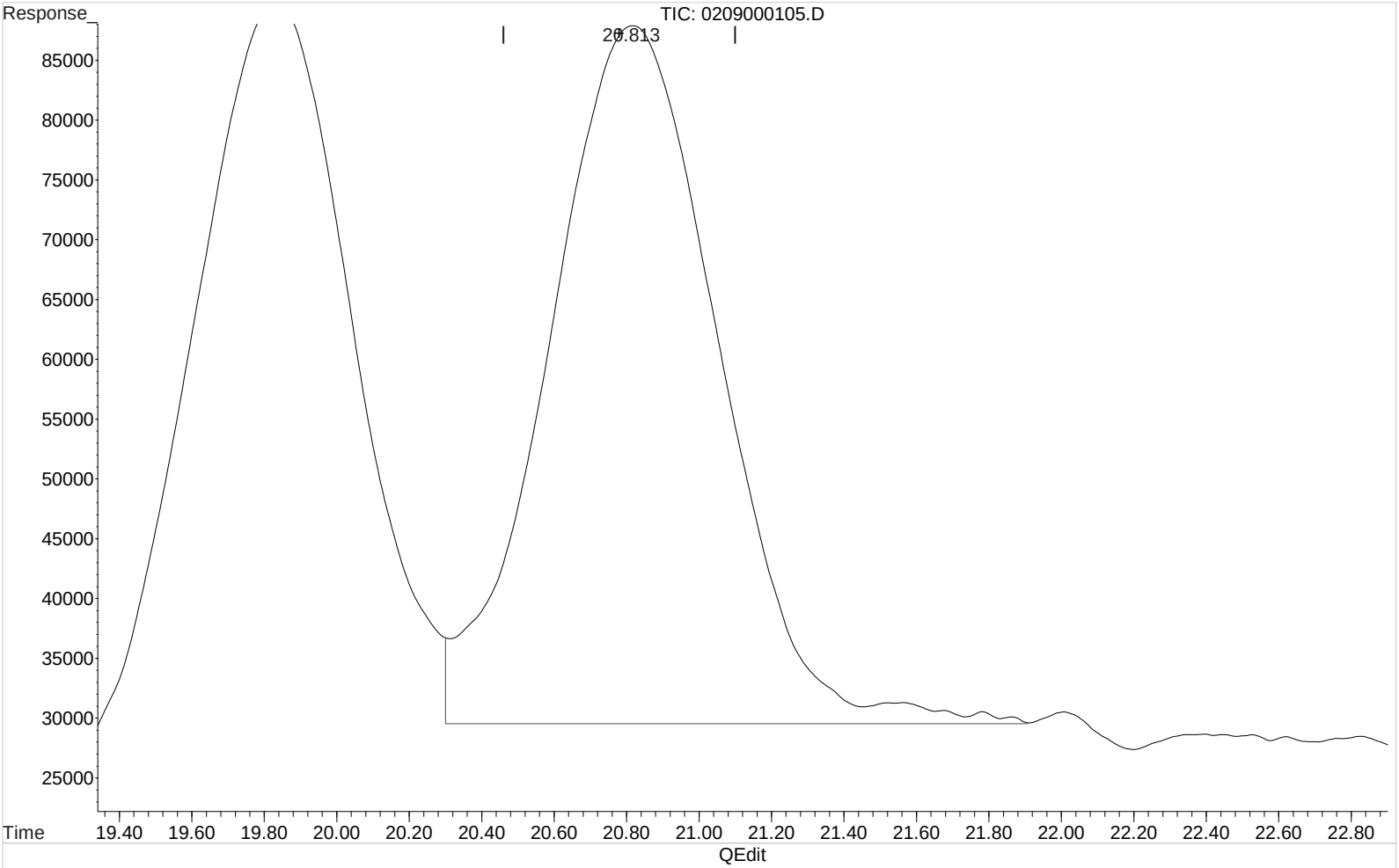
Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(16) 2,4,6-TNT (T)

20.813min 49.120 ug/L m

response 1897768

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

(b) (6)

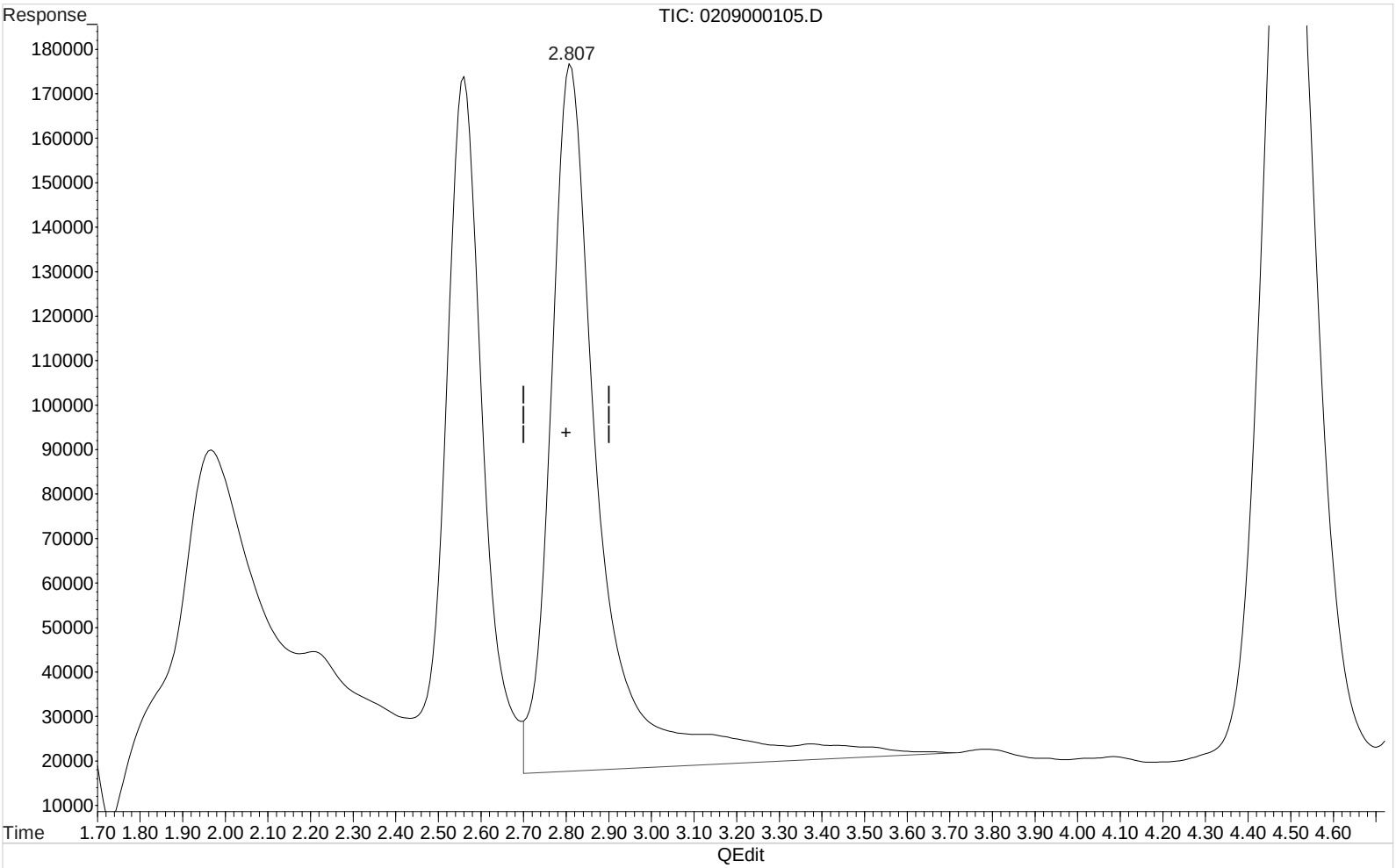
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(2) RDX (T)

2.807min 71.943 ug/L

response 1293711

Manual Integration:

Before

02/13/17

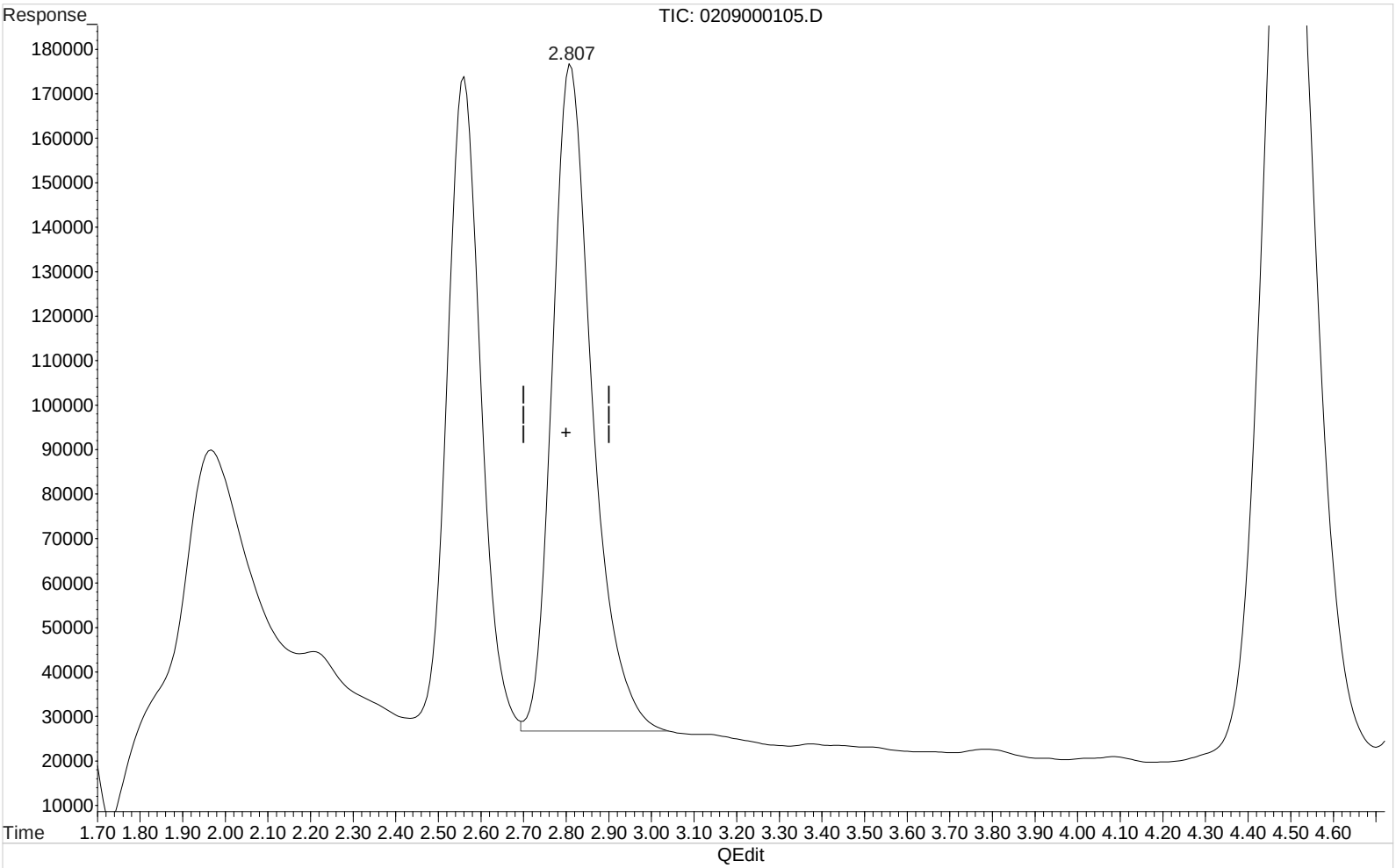
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.807min 54.310 ug/L m

response 976620

Manual Integration:

After

BLC

02/13/17

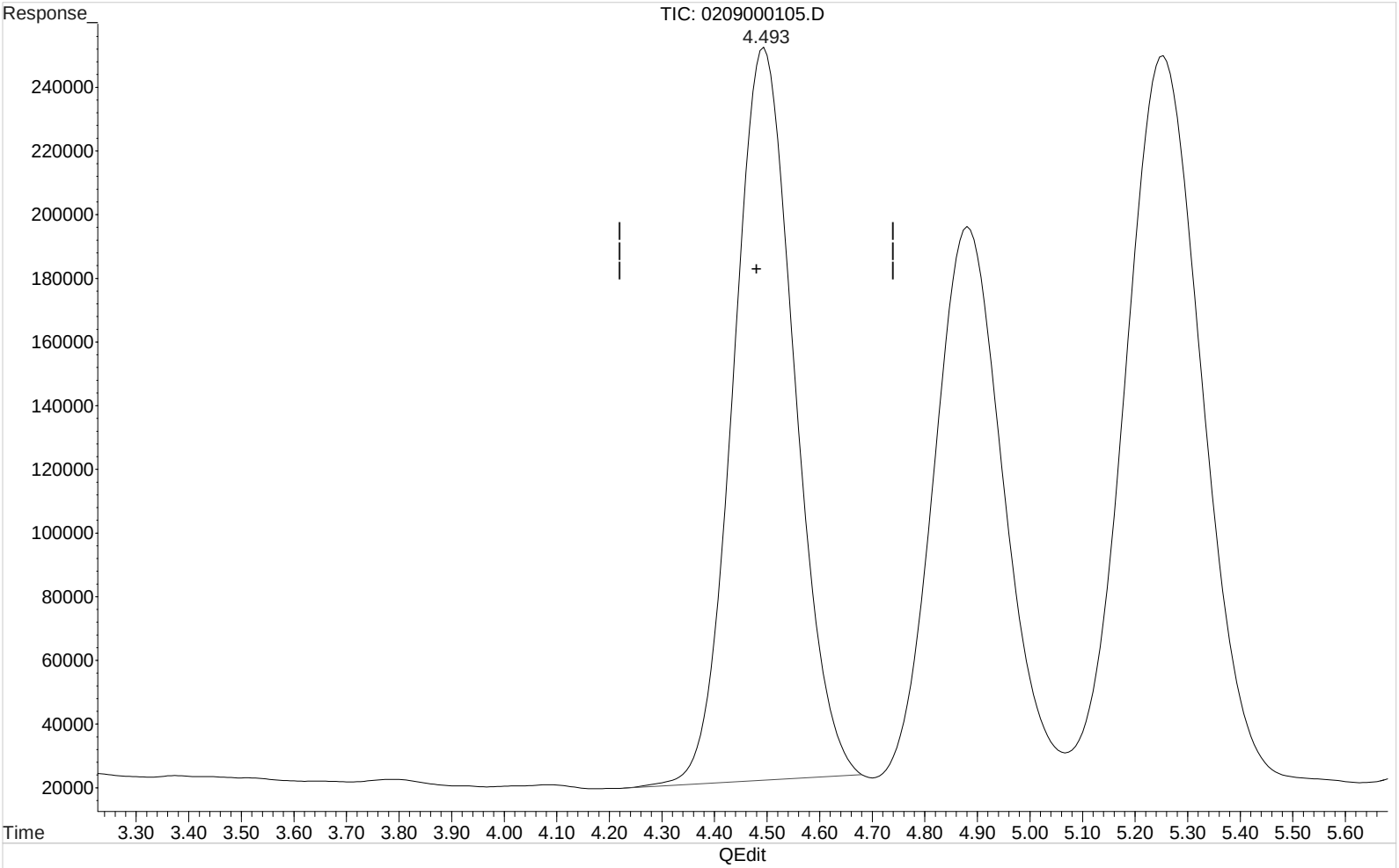
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(3) Nitrobenzene (T)

4.493min 50.613 ug/L

response 1874219

Manual Integration:

Before

02/13/17

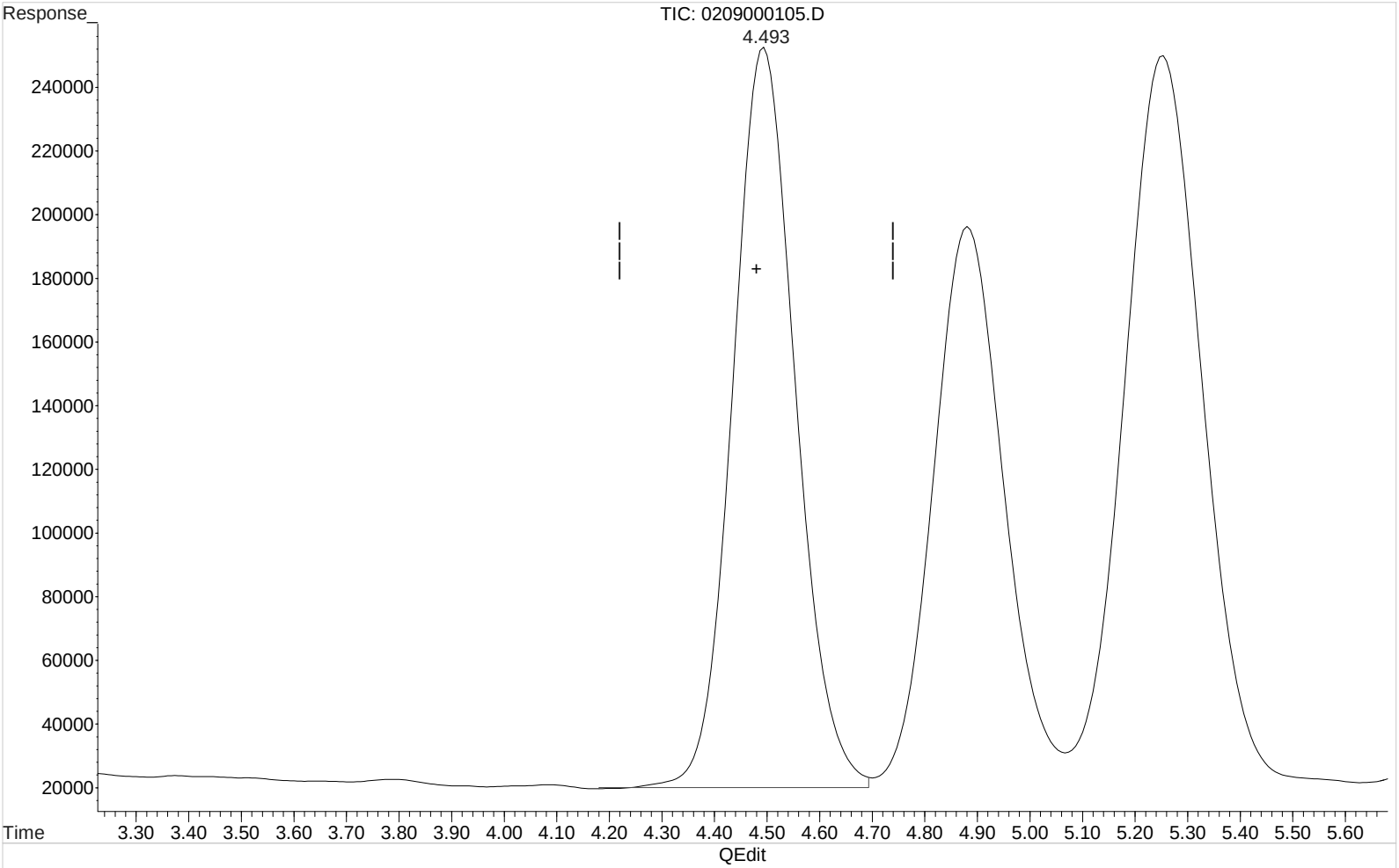
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.493min 52.121 ug/L m

response 1930068

Manual Integration:

After

BLC

02/13/17

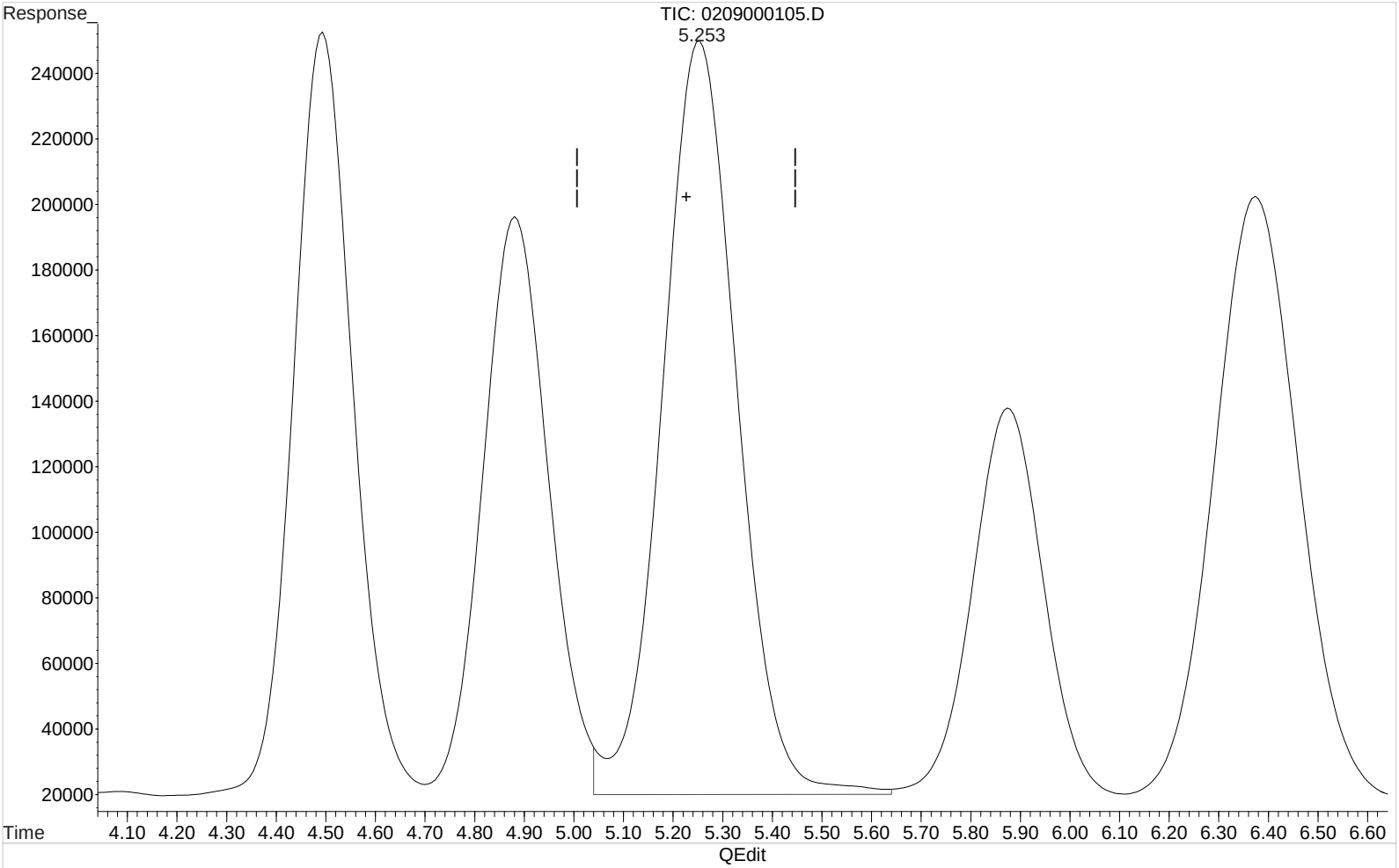
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(4) 3,5-Dinitroaniline (T)

5.253min 51.967 ug/L

response 2403967

Manual Integration:

Before

02/13/17

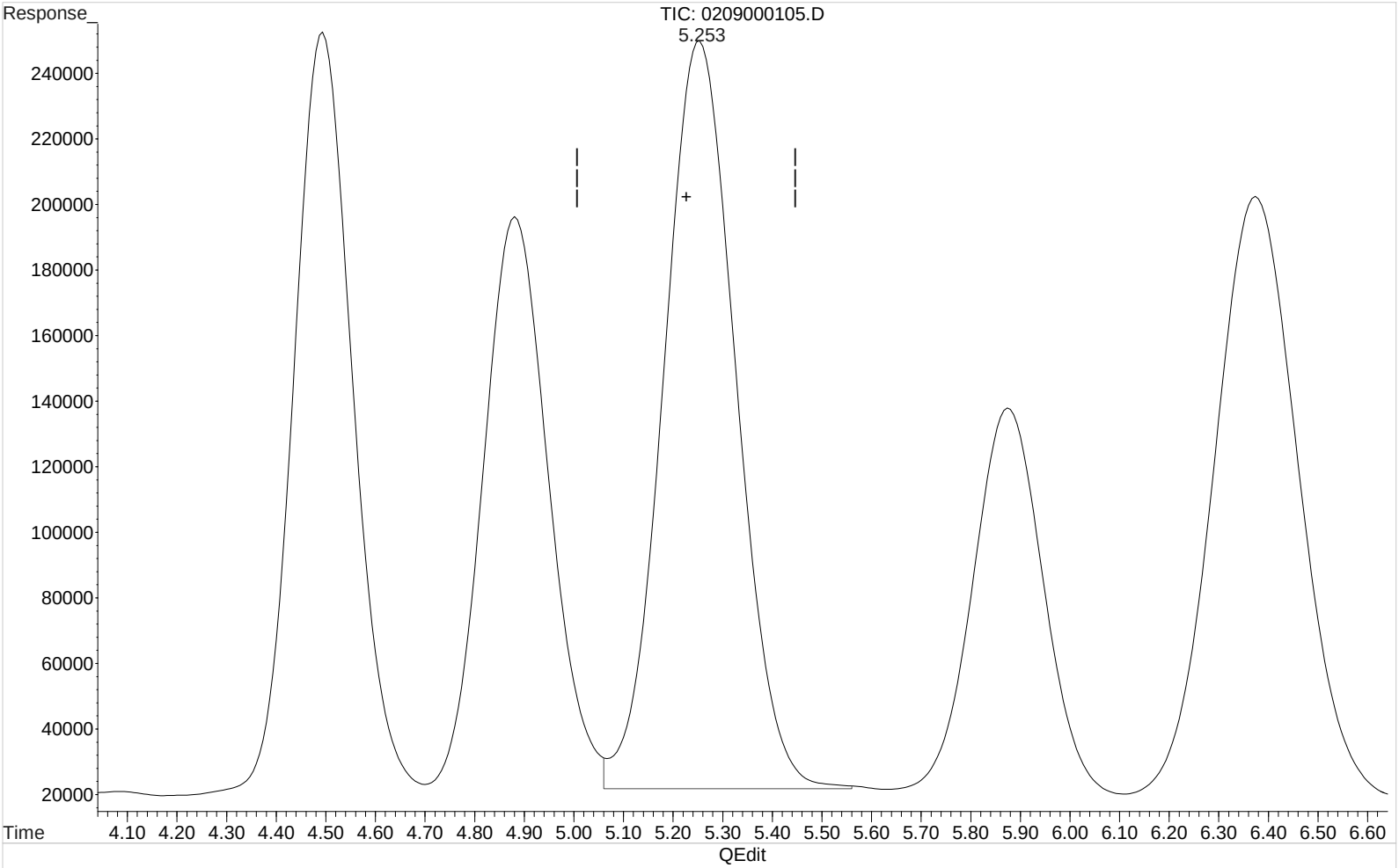
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(4) 3,5-Dinitroaniline (T)

5.253min 50.288 ug/L m

response 2326297

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

(b) (6)

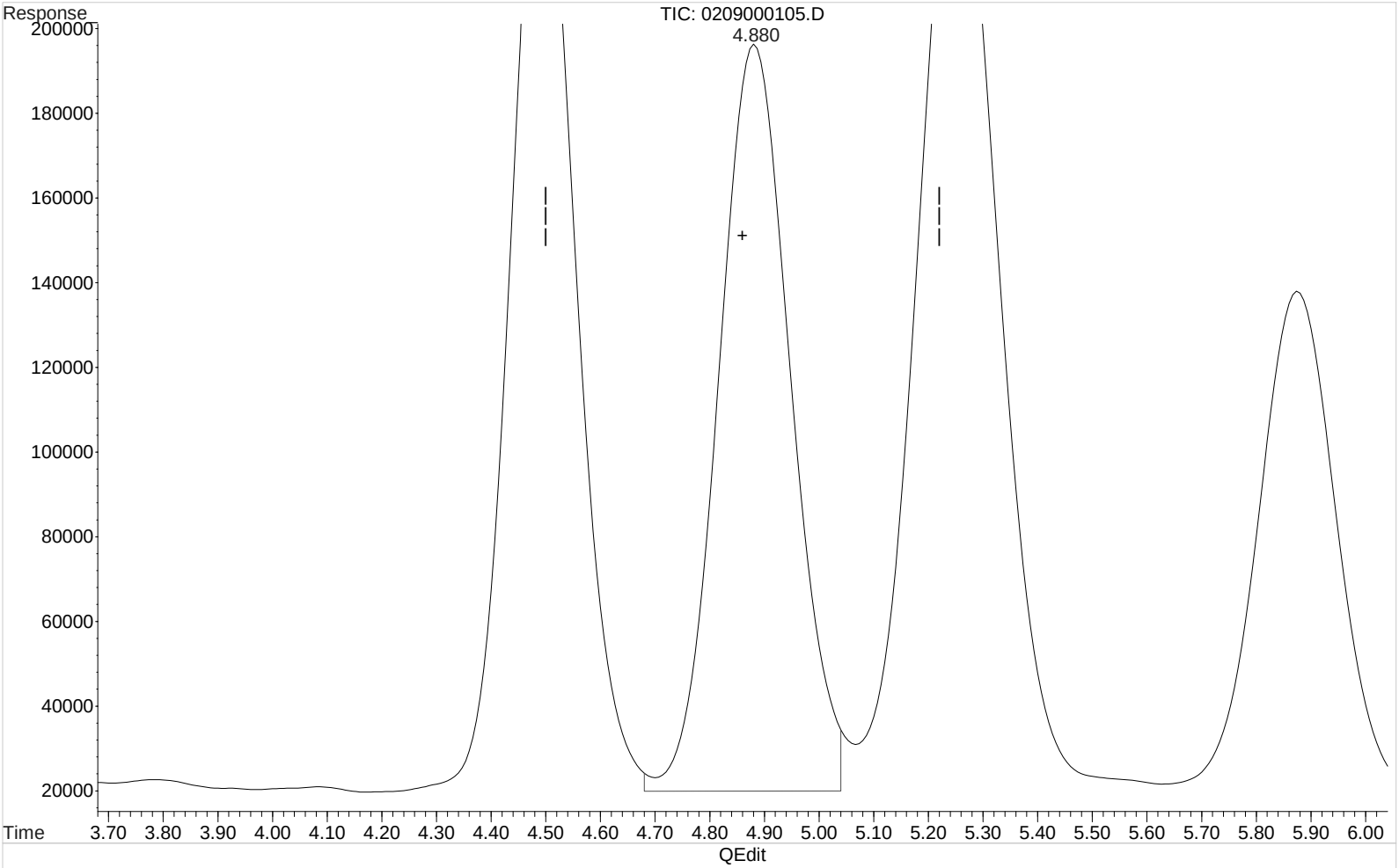
2/13/17

2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(5) 4-Amino-2,6-DNT (T)

4.880min 51.450 ug/L

response 1627659

Manual Integration:

Before

02/13/17

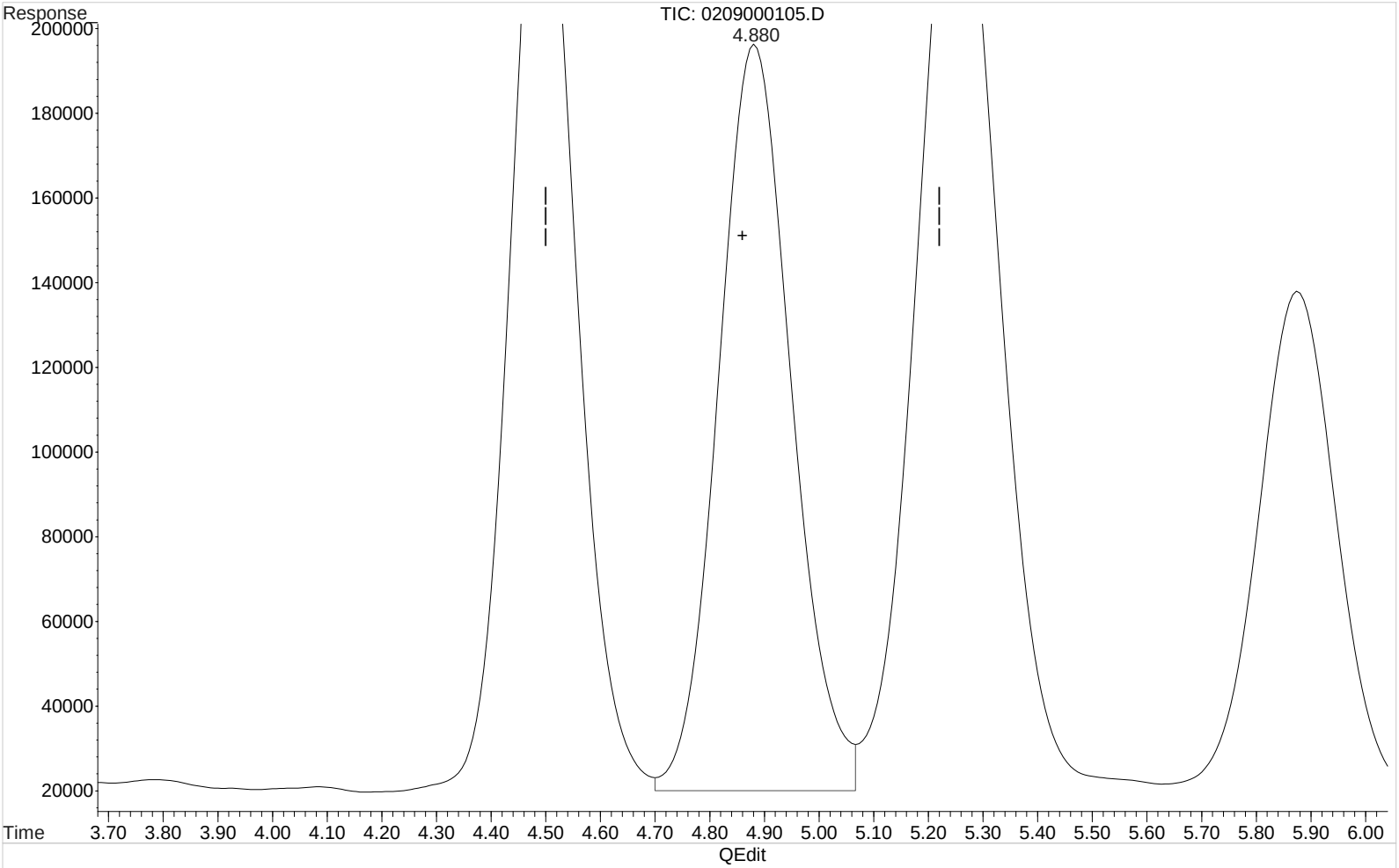
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(5) 4-Amino-2,6-DNT (T)

4.880min 51.865 ug/L m

response 1640782

Manual Integration:

After

BLC

02/13/17

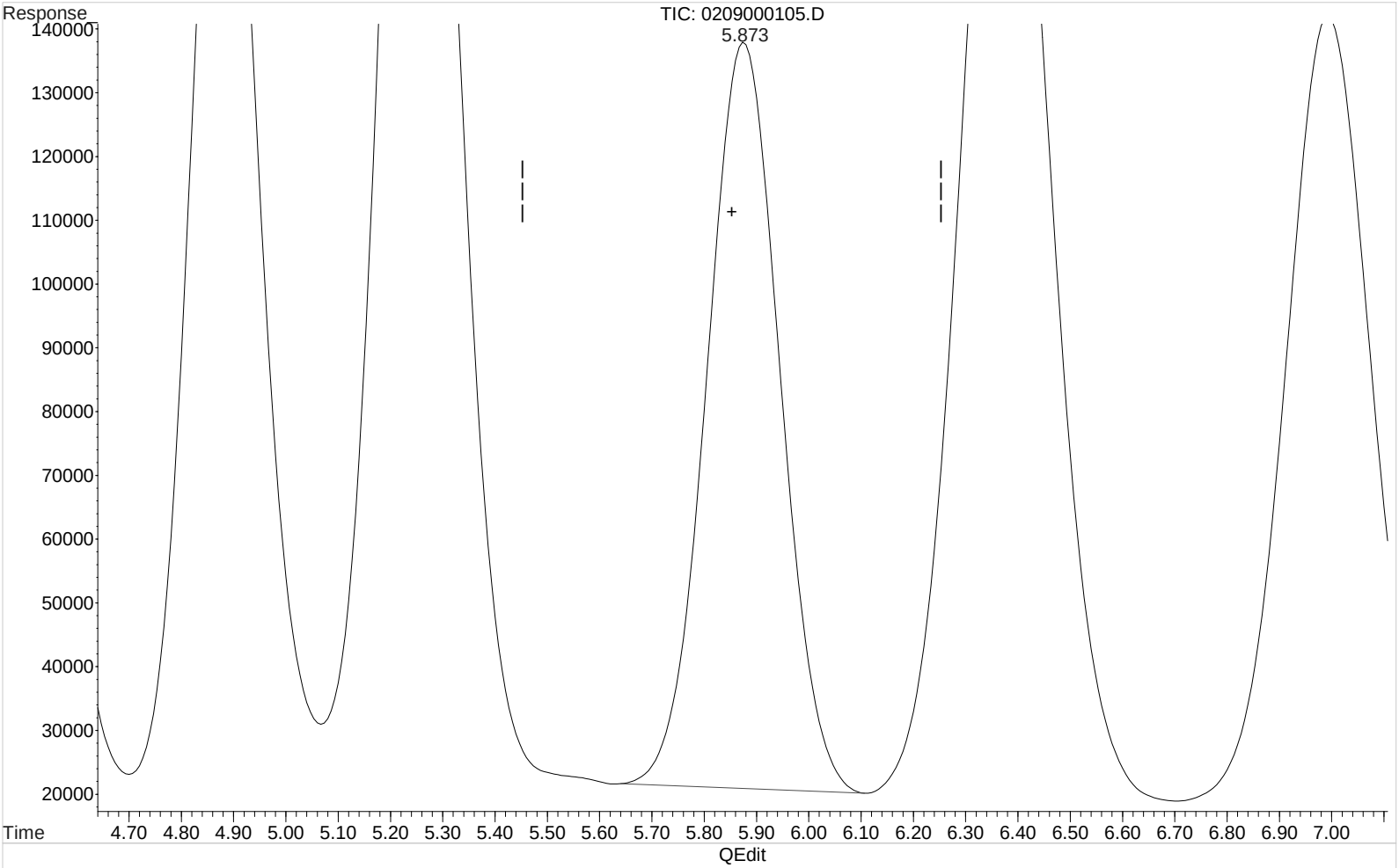
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.873min 48.523 ug/L

response 1142649

Manual Integration:

Before

02/13/17

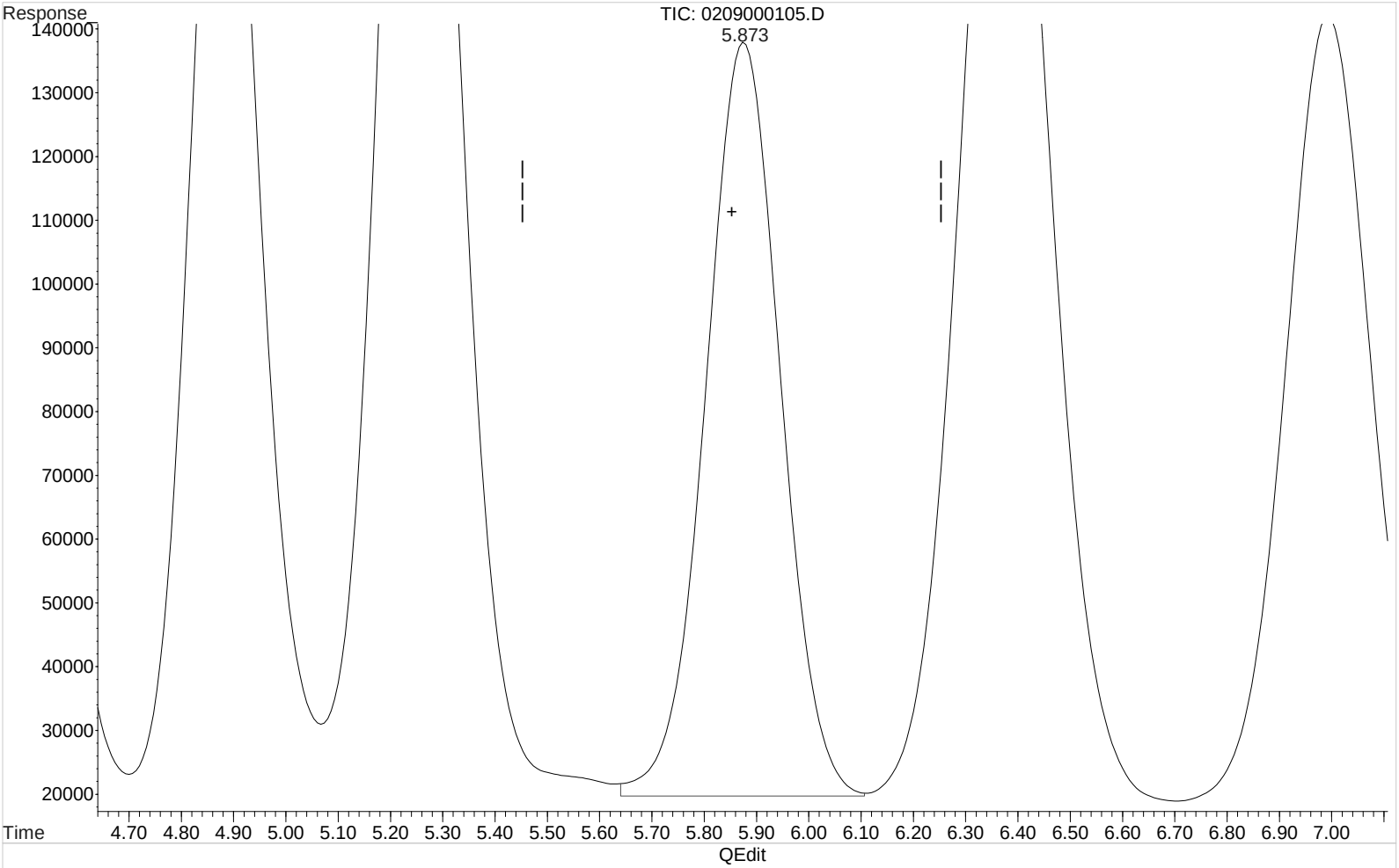
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.873min 49.902 ug/L m

response 1175129

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:21 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds							
11)	S	1-Chloro-3-Nitrobenzene	8.140	2657922	101.044	ug/L	
Target Compounds							
1)	T	HMX	2.553	1564147	99.582	ug/L	m
2)	T	RDX	2.800	1816656	101.172	ug/L	m
3)	T	Nitrobenzene	4.487	3709544	100.200	ug/L	m
4)	T	3,5-Dinitroaniline	5.247	4640472	100.360	ug/L	m
5)	T	4-Amino-2,6-DNT	4.867	3162039	99.946	ug/L	
6)	T	2-NT	5.867	2360051	100.252	ug/L	m
7)	T	2-Amino-4,6-DNT	6.367	4206003	100.723	ug/L	m
8)	T	3-NT	6.987	2804284	100.814	ug/L	
9)	T	1,3-DNB	9.140	5626152	101.488	ug/L	
10)	T	4-NT	7.853	2280814	100.351	ug/L	
12)	T	2,6-DNT	8.827	2426327	99.008	ug/L	
13)	T	2,4-DNT	14.820	5175598	101.753	ug/L	
14)	T	Tetryl	13.000	3027728	104.293	ug/L	
15)	T	1,3,5-TNB	19.807	4146878	101.012	ug/L	
16)	T	2,4,6-TNT	20.793	3878263	100.435	ug/L	

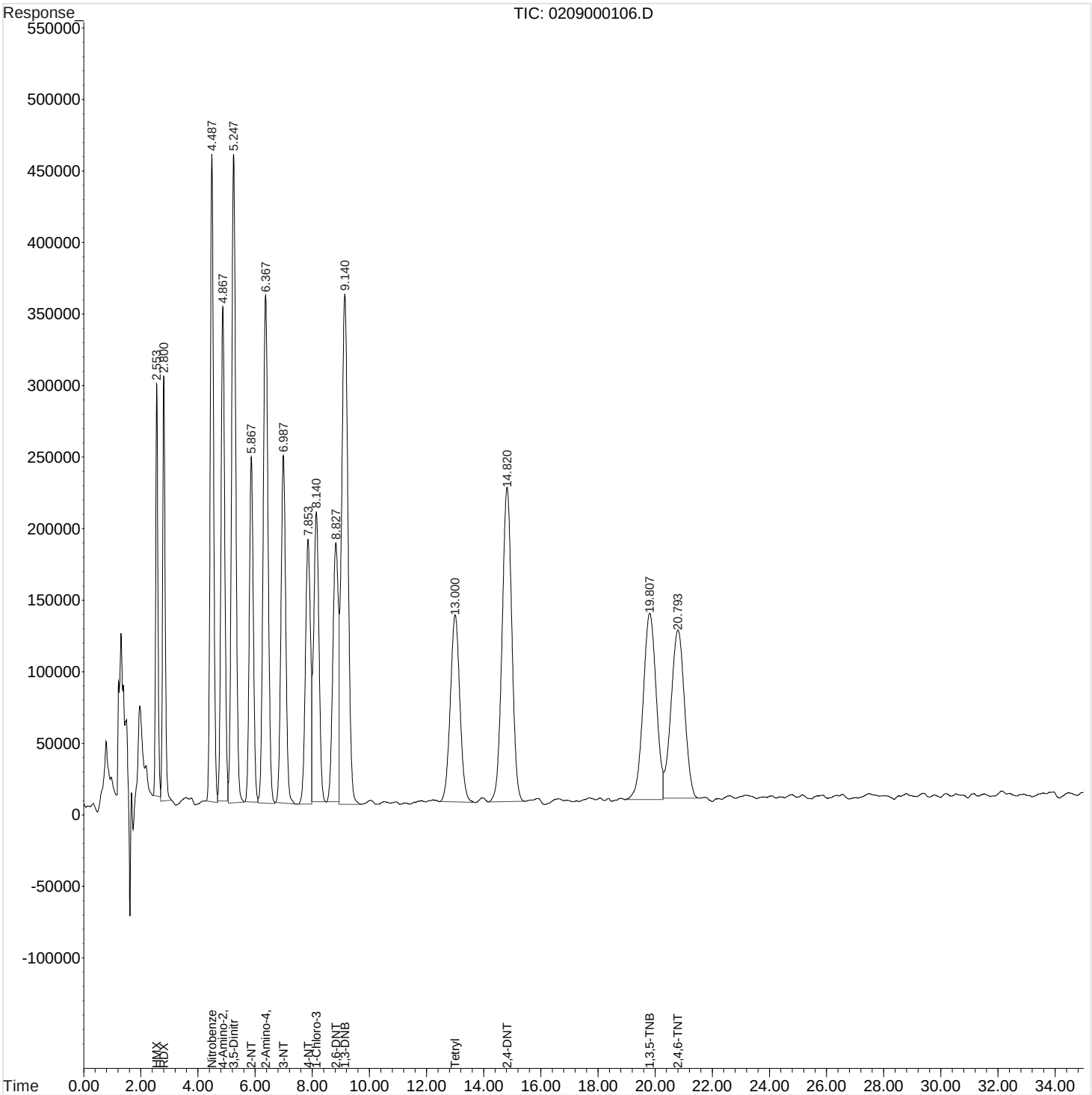
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:21 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

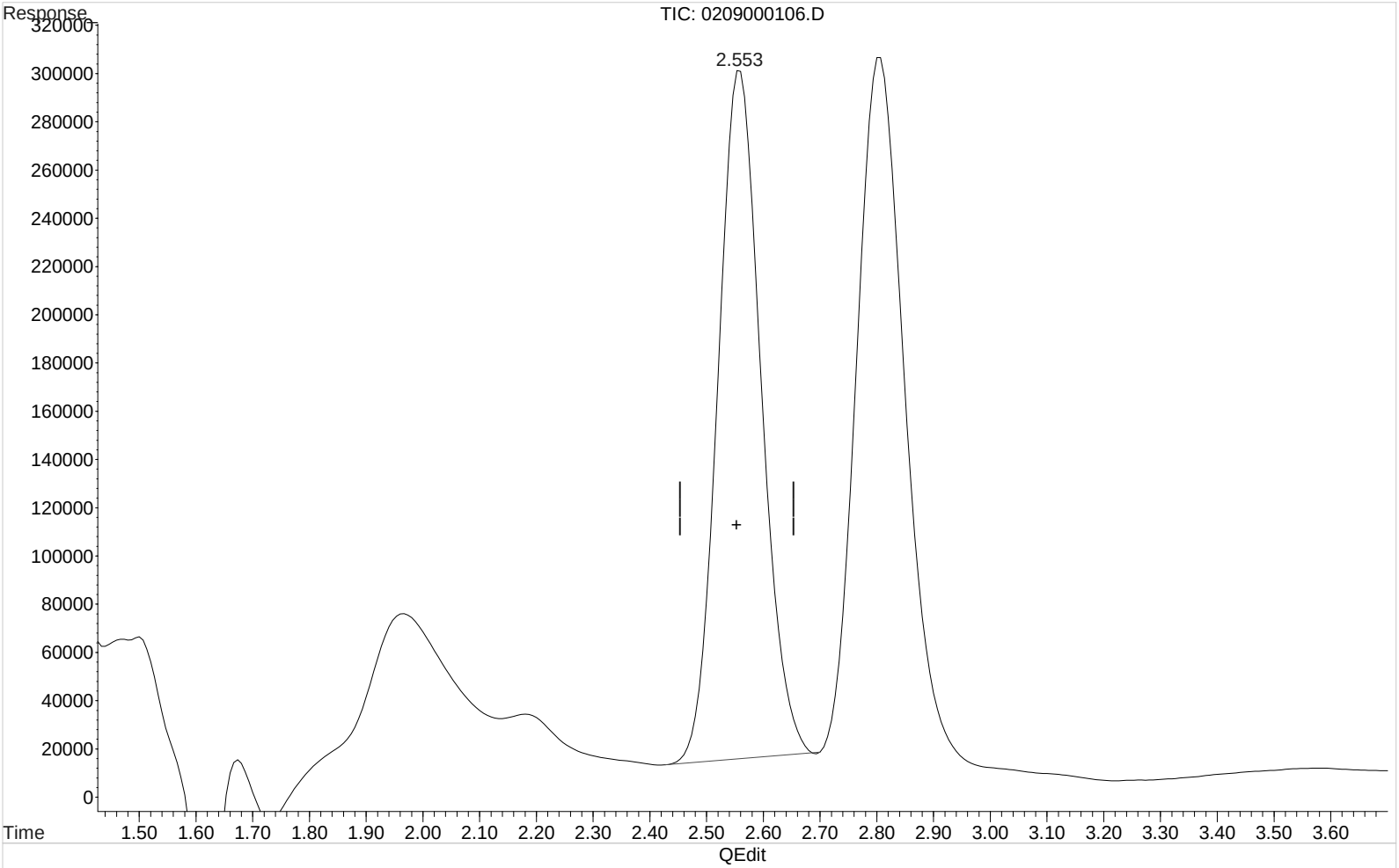


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.553min 96.655 ug/L

response 1518161

Manual Integration:

Before

02/13/17

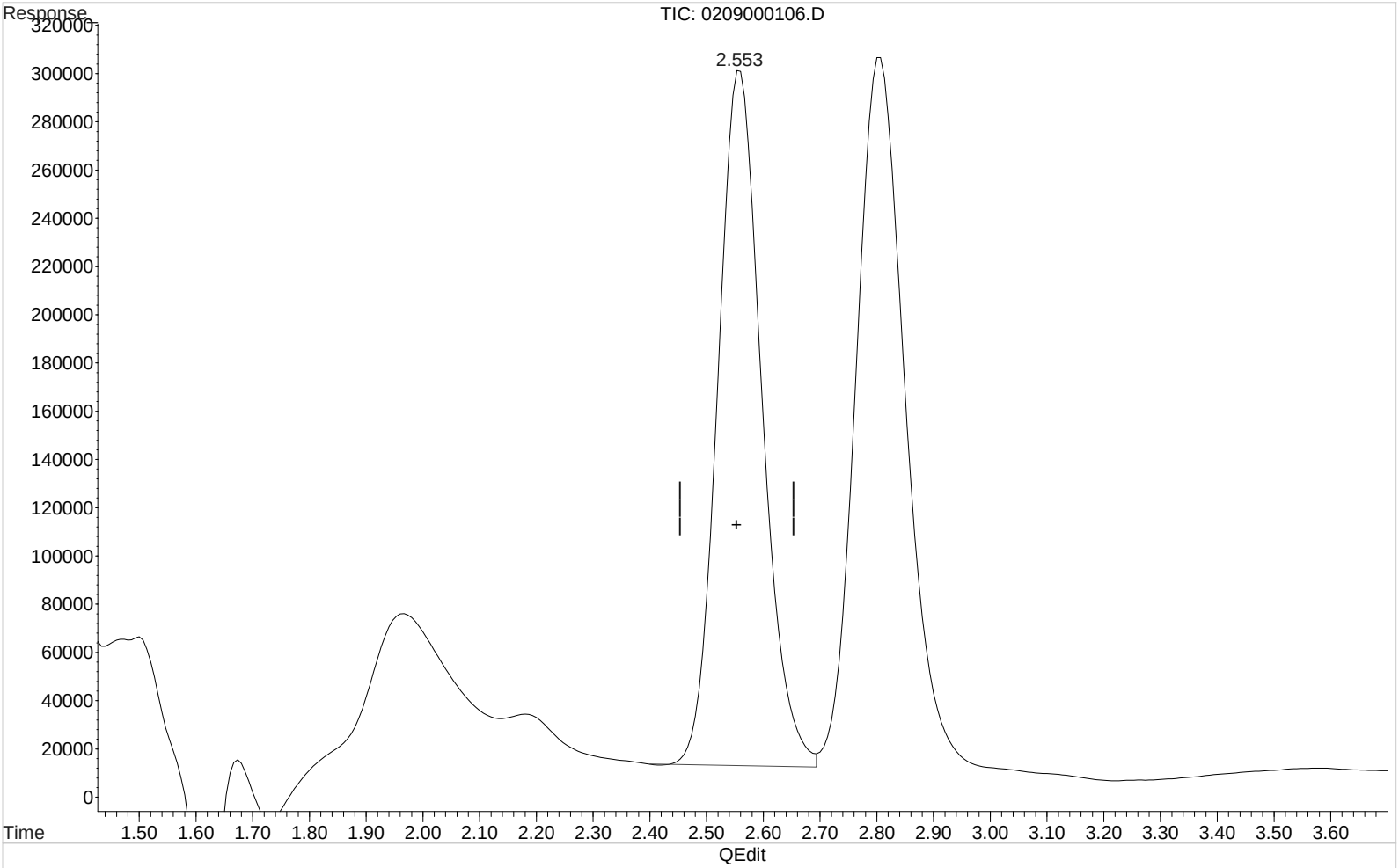
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.553min 99.582 ug/L m

response 1564147

Manual Integration:

After

BLC

02/13/17

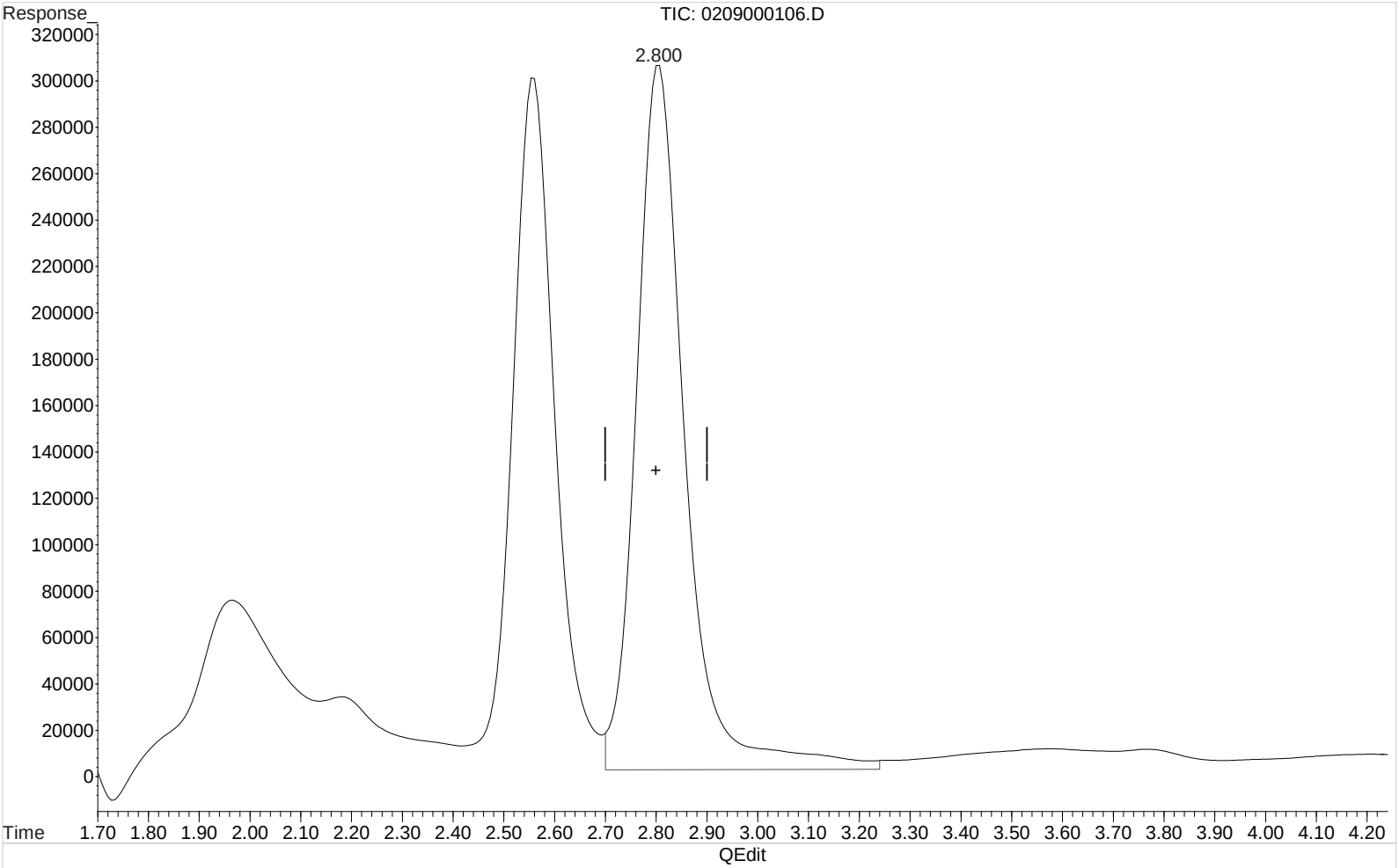
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(2) RDX (T)

2.800min 112.506 ug/L

response 2020163

Manual Integration:

Before

02/13/17

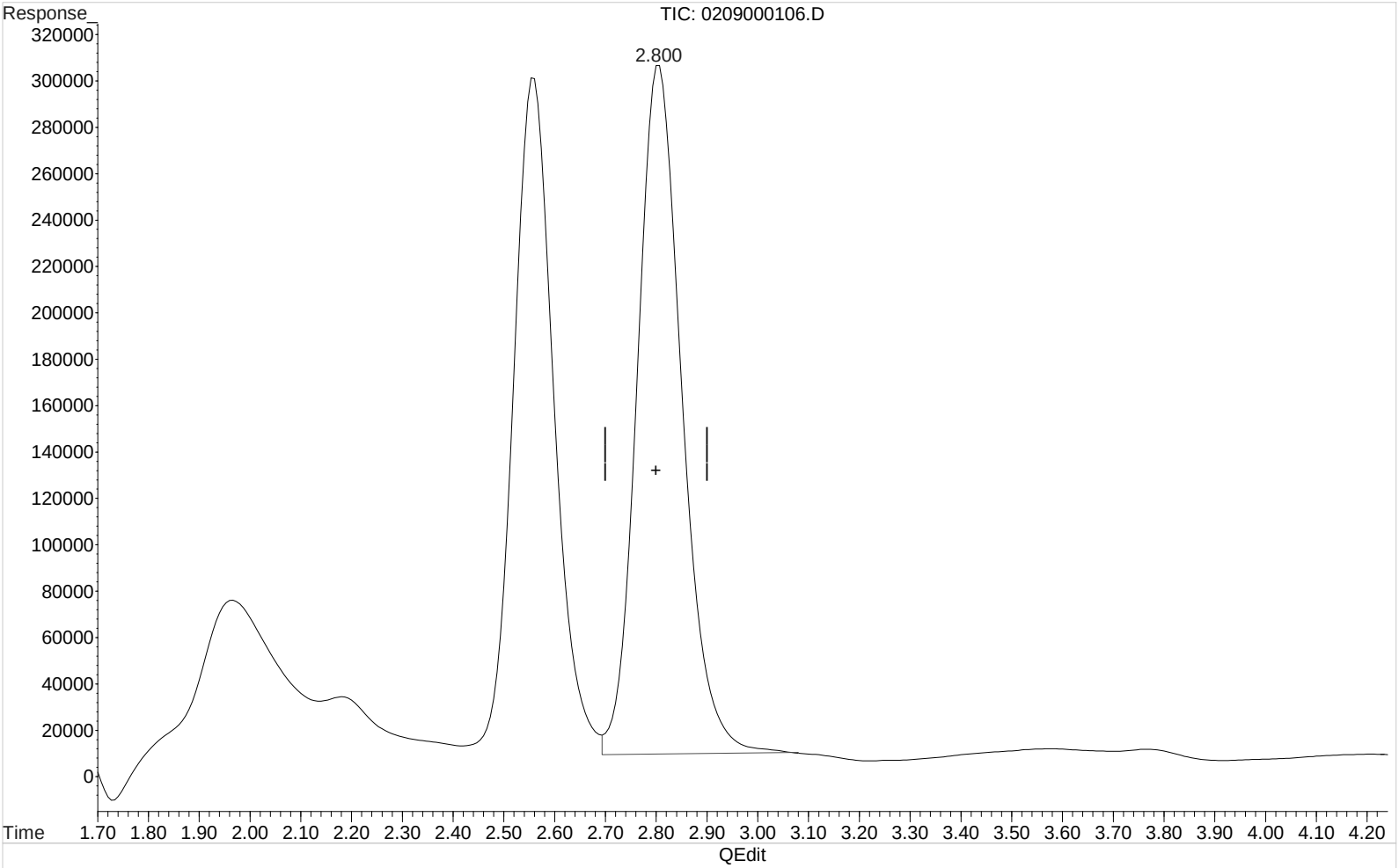
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(2) RDX (T)

2.800min 101.172 ug/L m

response 1816656

Manual Integration:

After

BLC

02/13/17

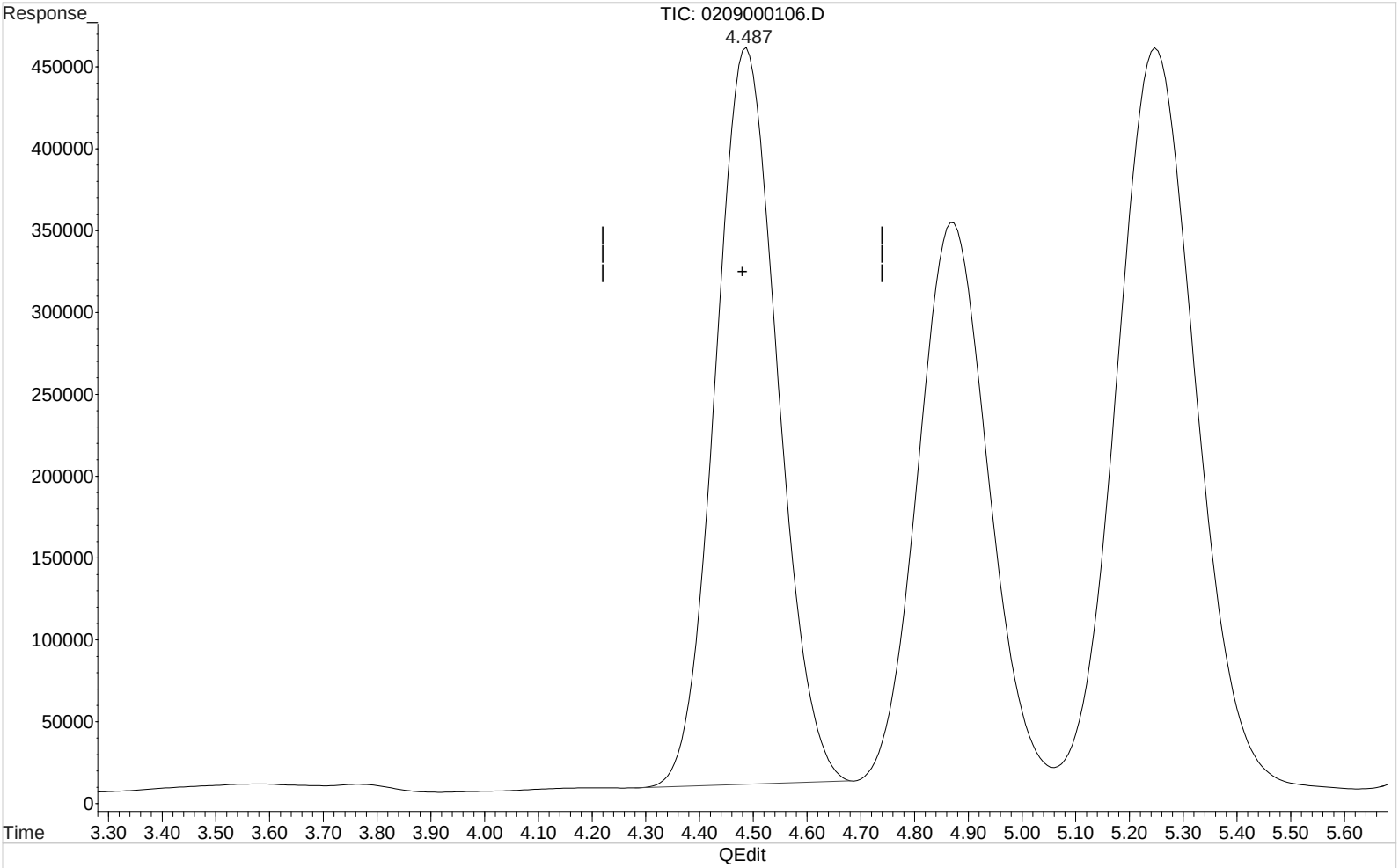
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 98.379 ug/L

response 3642131

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

(b) (6)

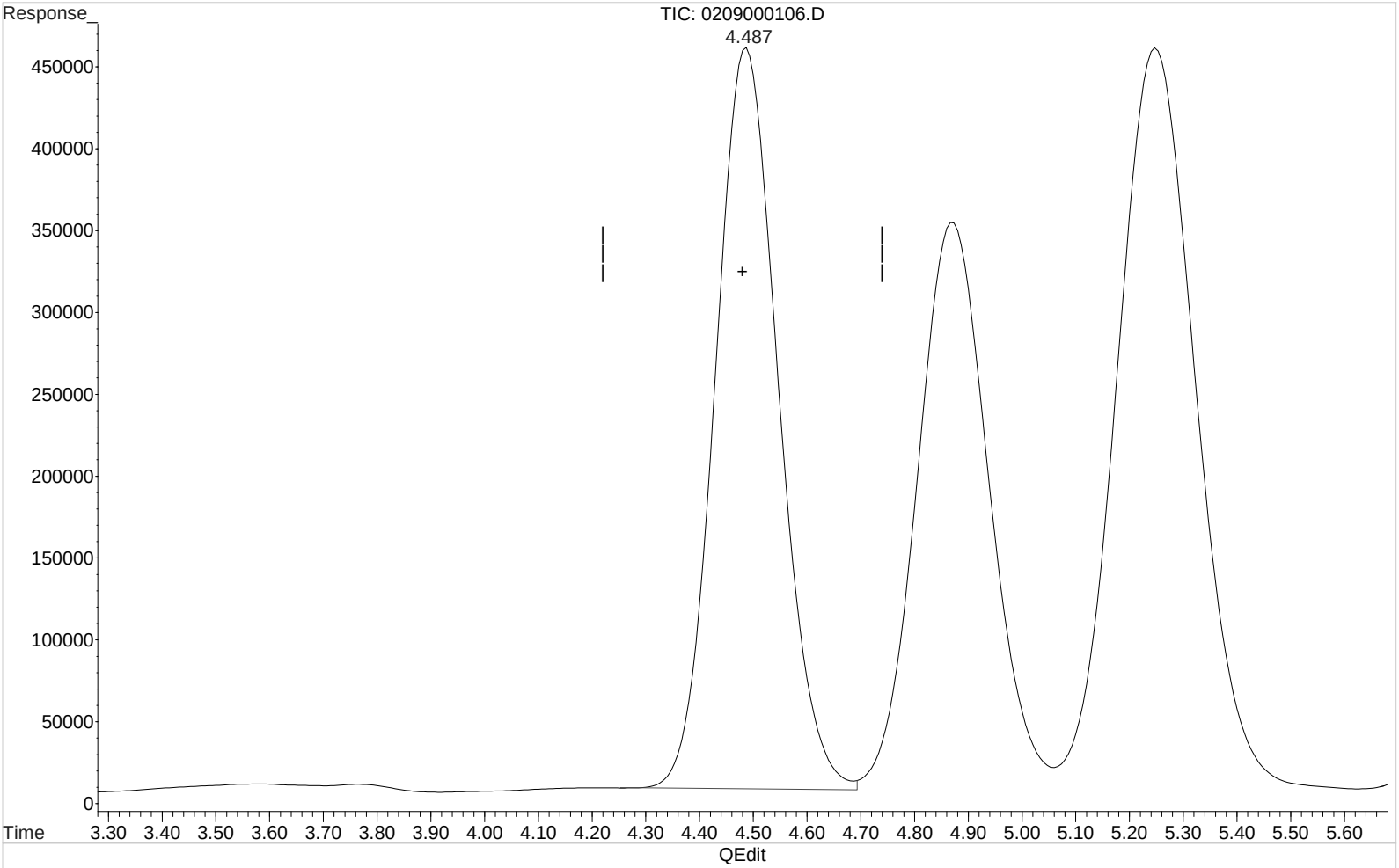
17

17

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 100.200 ug/L m

response 3709544

Manual Integration:

After

BLC

02/13/17

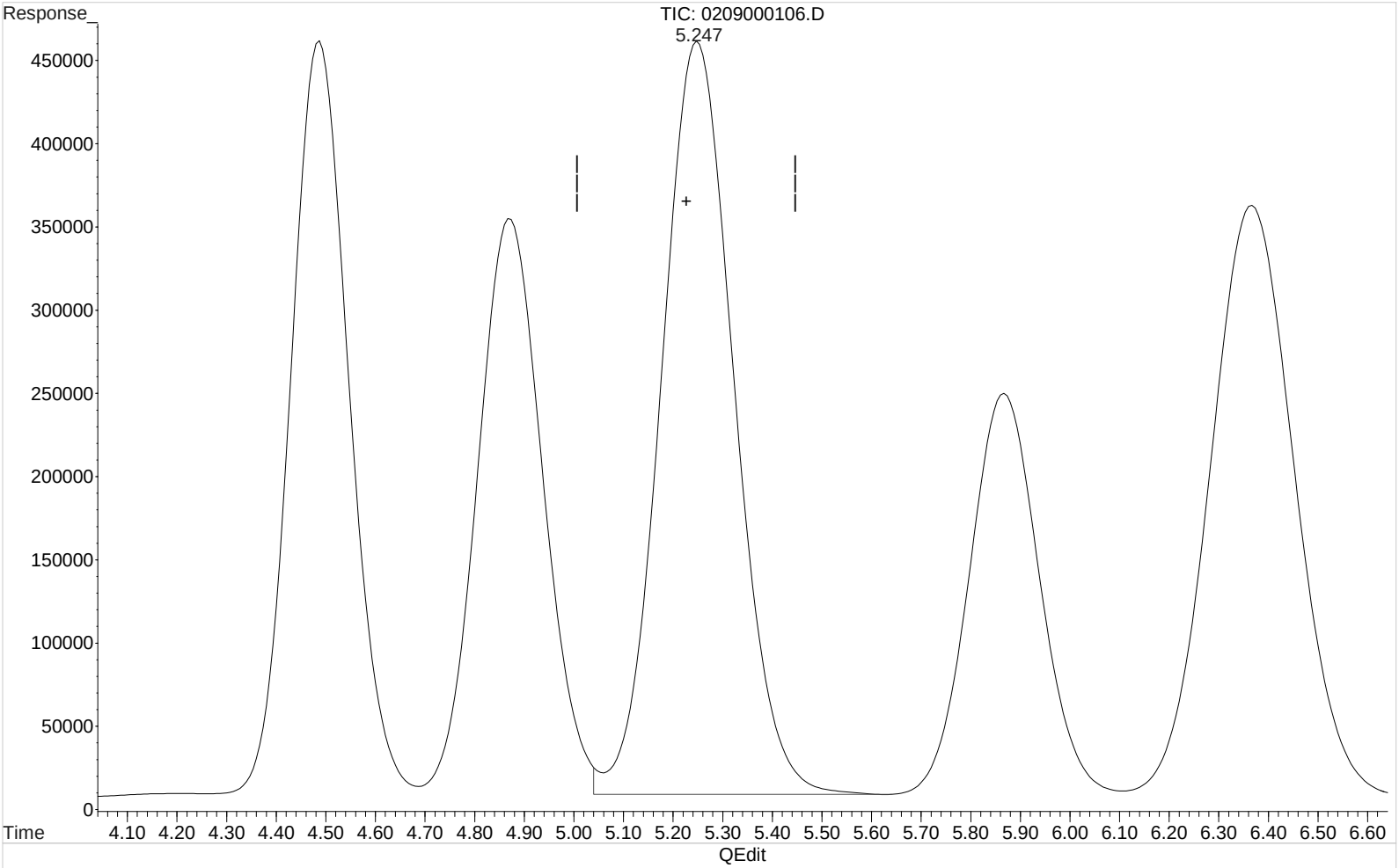
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(4) 3,5-Dinitroaniline (T)

5.247min 100.244 ug/L

response 4635102

Manual Integration:

Before

02/13/17

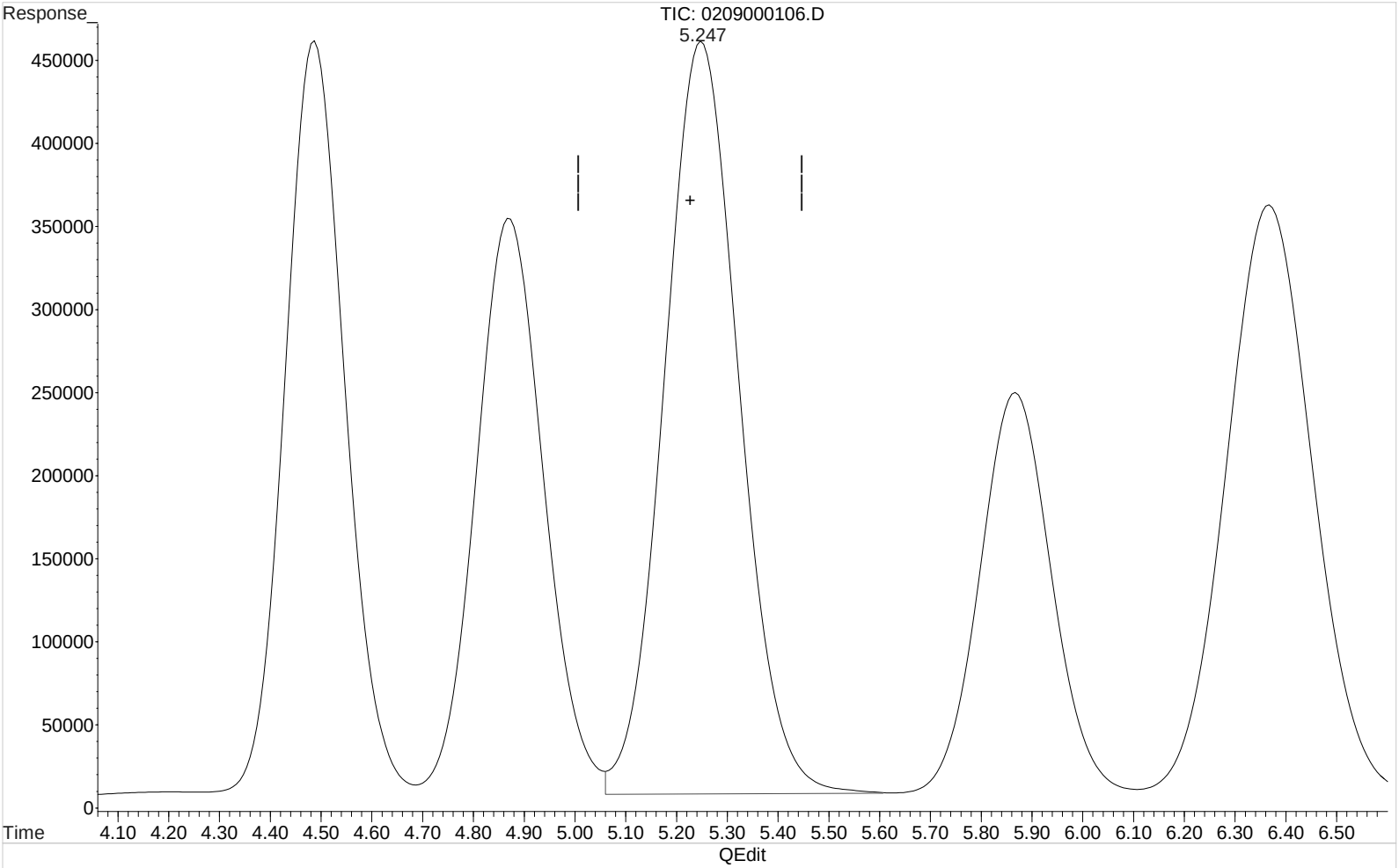
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:21 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(4) 3,5-Dinitroaniline (T)

5.247min 100.360 ug/L m

response 4640472

Manual Integration:

After

BLC

02/13/17

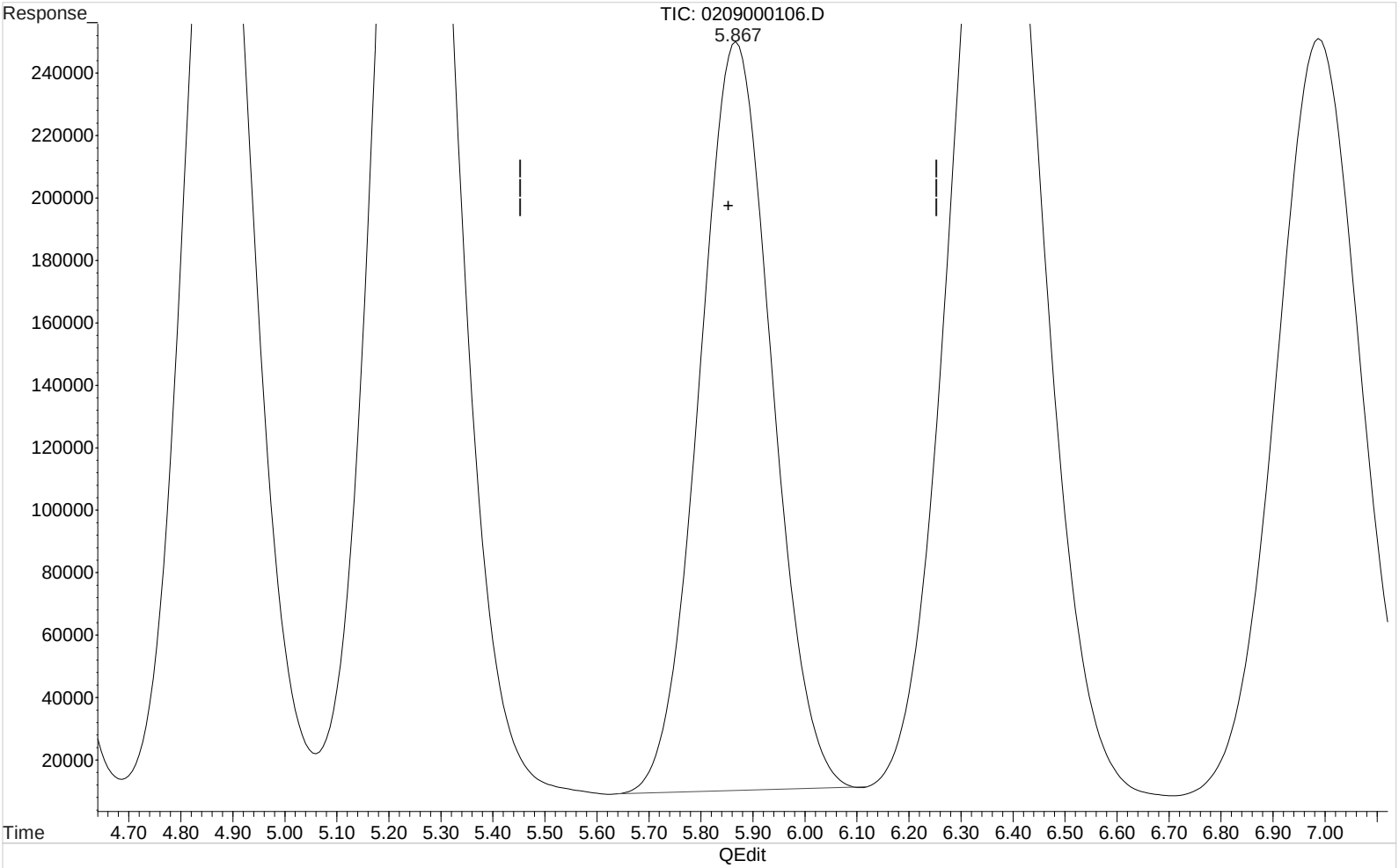
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.867min 98.817 ug/L

response 2326248

Manual Integration:

Before

02/13/17

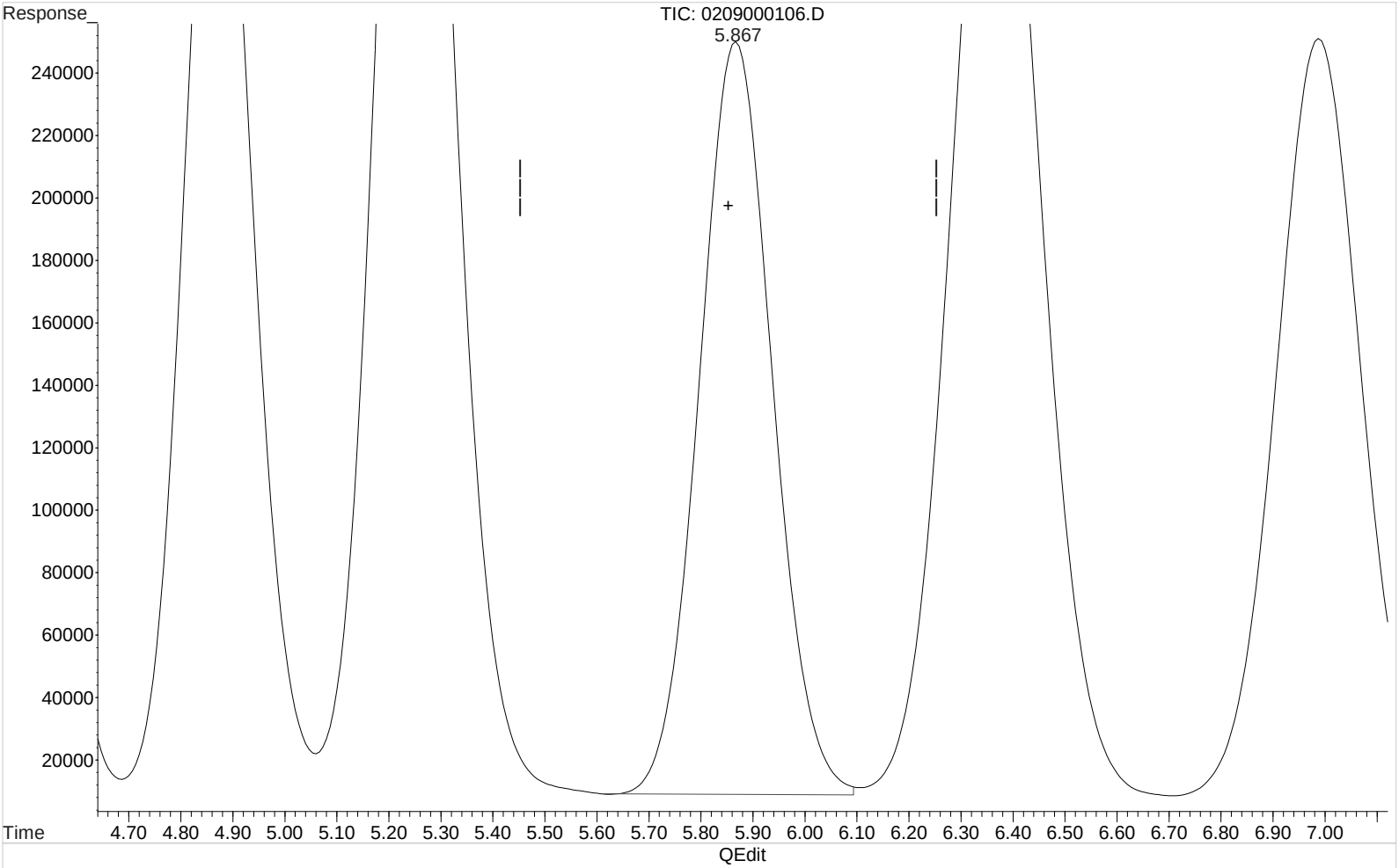
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.867min 100.252 ug/L m

response 2360051

Manual Integration:

After

BLC

02/13/17

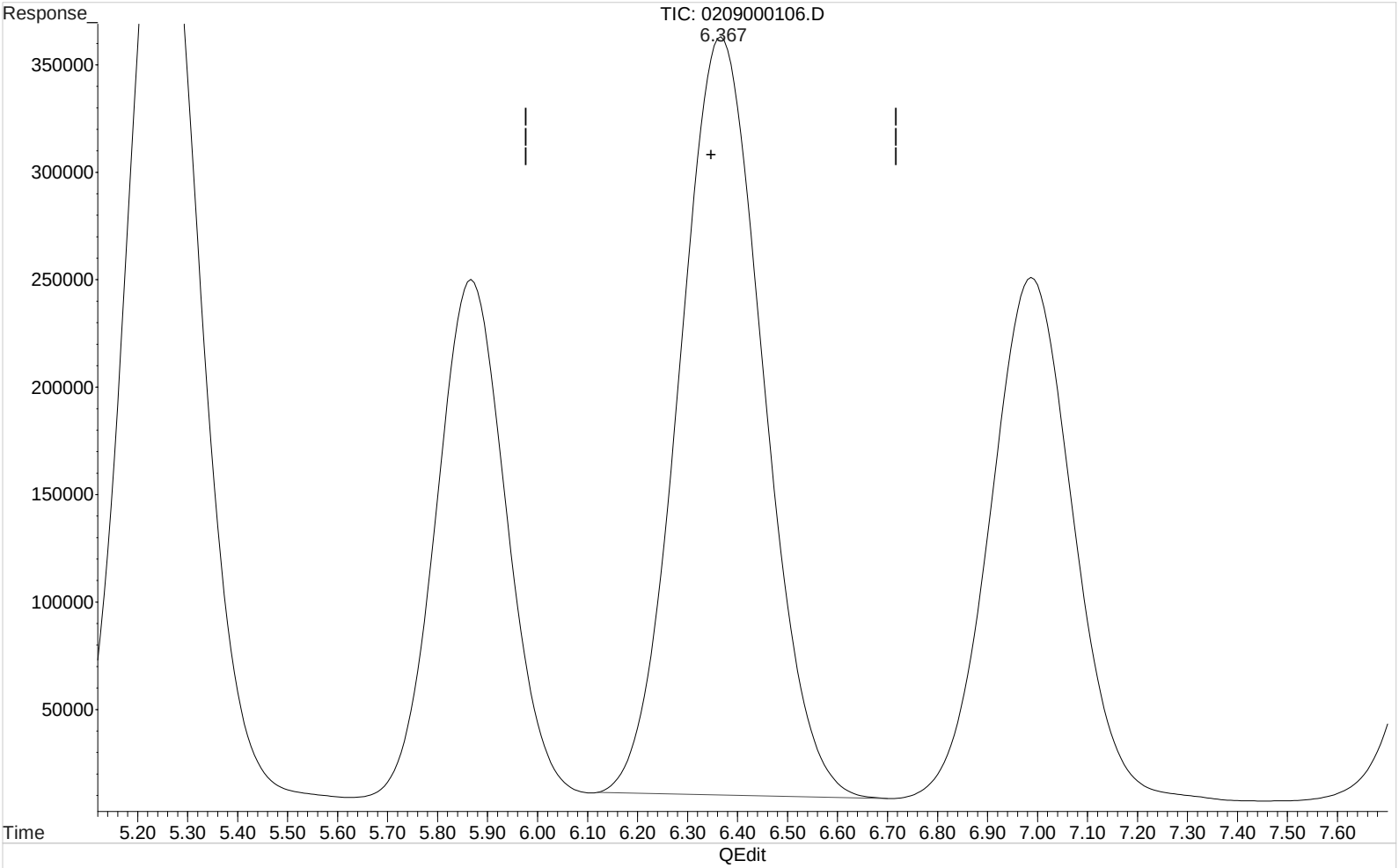
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(7) 2-Amino-4,6-DNT (T)

6.367min 99.082 ug/L

response 4137499

Manual Integration:

Before

02/13/17

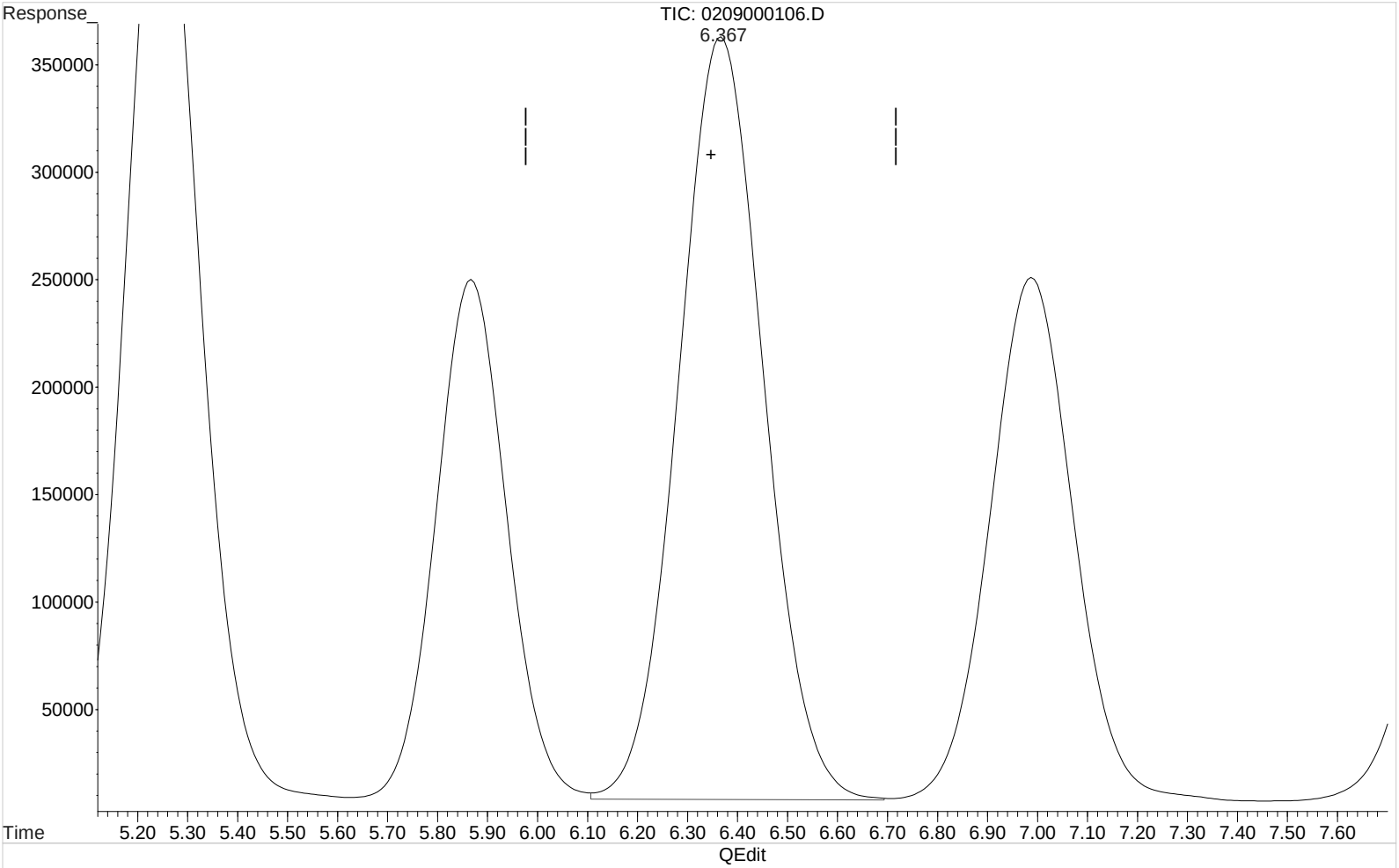
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.367min 100.723 ug/L m

response 4206003

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:02:59 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
11) S	1-Chloro-3-Nitrobenzene	8.133	5220675	198.216	ug/L	
	Target Compounds					
1) T	HMX	2.553	3190741	203.674	ug/L	m
2) T	RDX	2.800	3669487	205.104	ug/L	m
3) T	Nitrobenzene	4.487	7378721	199.195	ug/L	m
4) T	3,5-Dinitroaniline	5.240	9267786	200.507	ug/L	
5) T	4-Amino-2,6-DNT	4.867	6395822	202.523	ug/L	
6) T	2-NT	5.860	4647246	196.985	ug/L	m
7) T	2-Amino-4,6-DNT	6.360	8414458	201.757	ug/L	m
8) T	3-NT	6.980	5578596	200.643	ug/L	m
9) T	1,3-DNB	9.133	11230158	203.013	ug/L	
10) T	4-NT	7.847	4460100	195.620	ug/L	
12) T	2,6-DNT	8.820	4883983	199.176	ug/L	
13) T	2,4-DNT	14.813	10333460	203.692	ug/L	
14) T	Tetryl	13.000	5723089	196.668	ug/L	
15) T	1,3,5-TNB	19.820	8131157	197.745	ug/L	
16) T	2,4,6-TNT	20.800	7763771	201.236	ug/L	

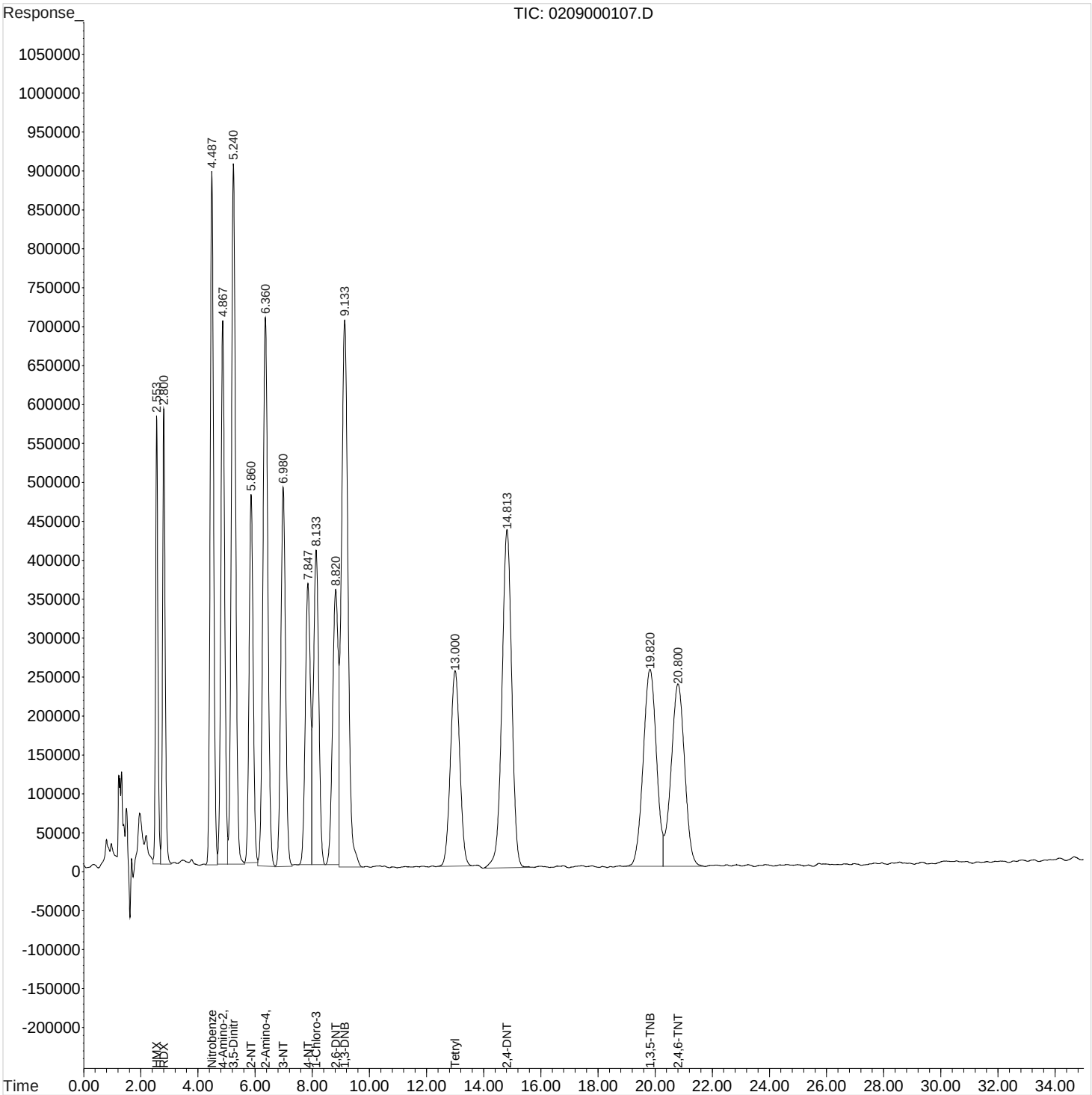
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:02:59 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(b) (6)

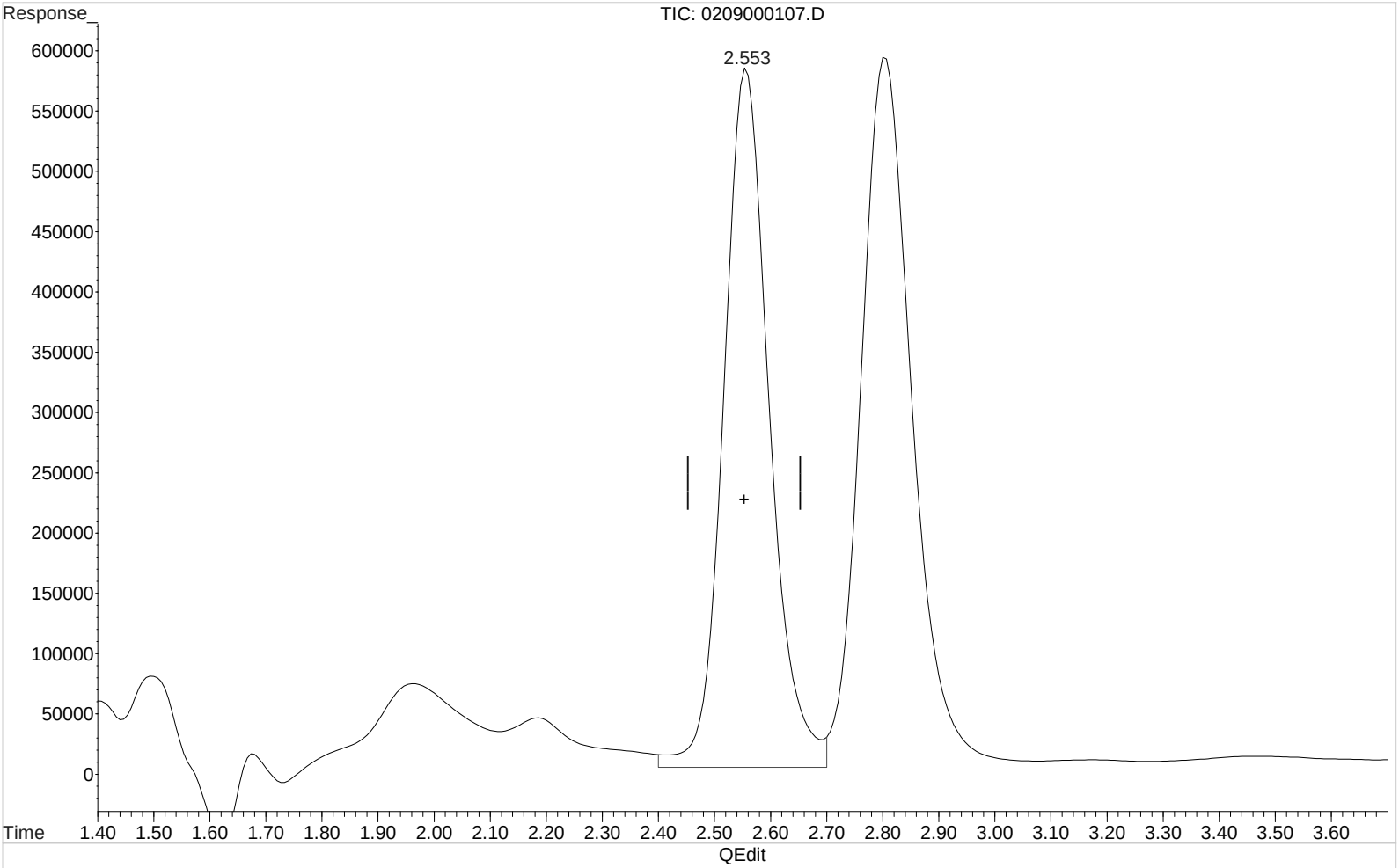
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.553min 209.905 ug/L

response 3288352

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

(b) (6)

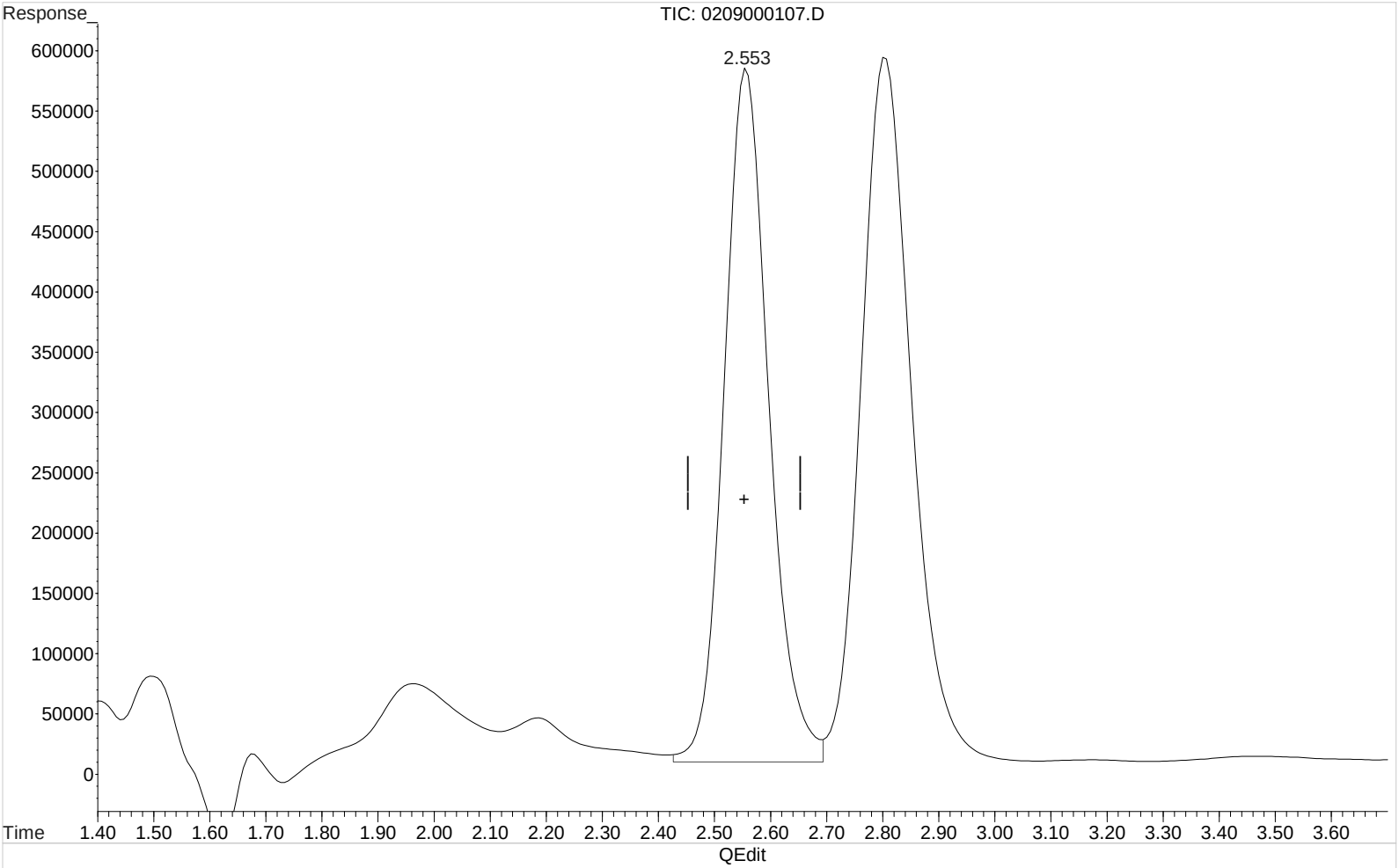
17

17

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(1) HMX (T)

2.553min 203.674 ug/L m

response 3190741

Manual Integration:

After

BLC

02/13/17

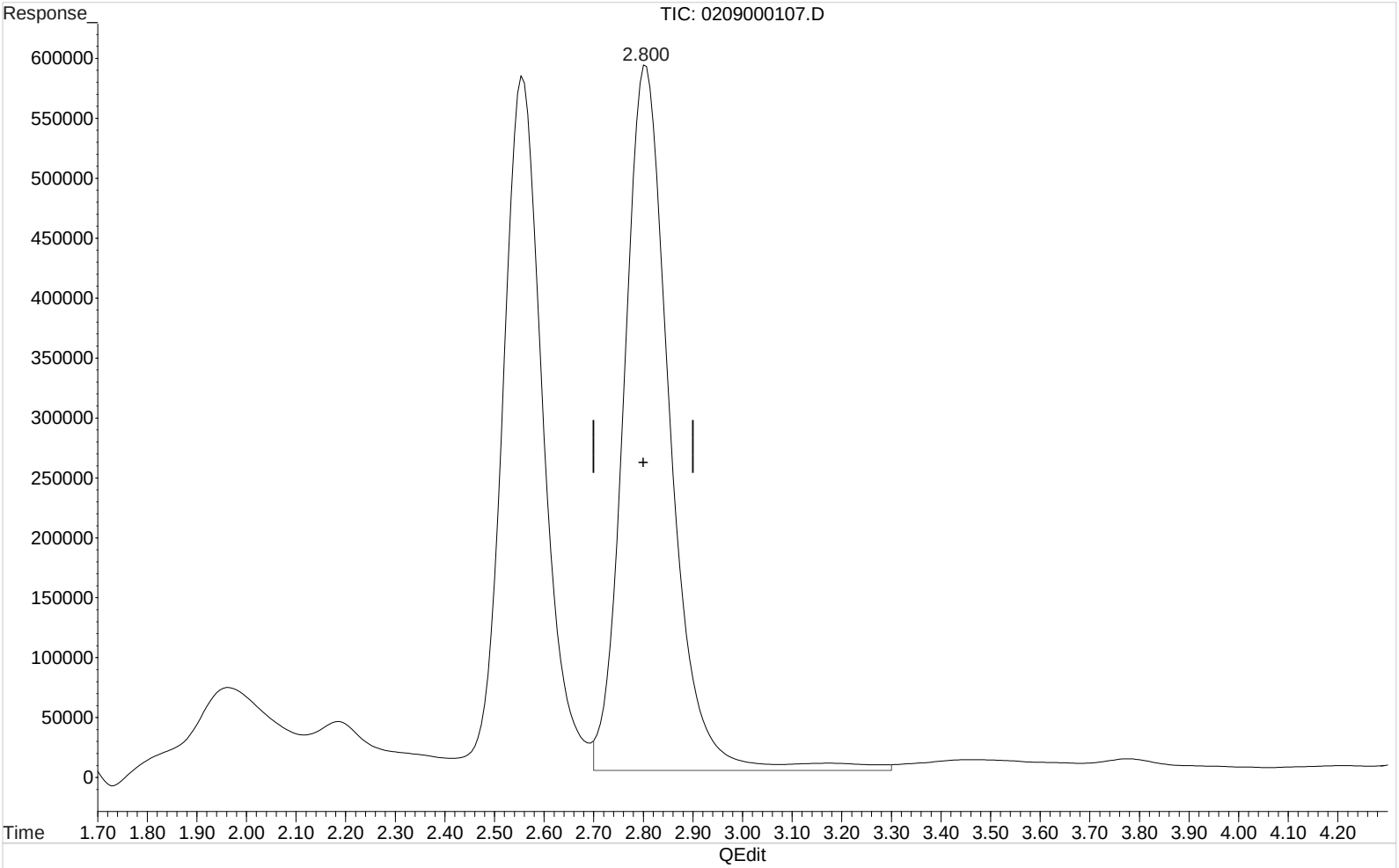
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(2) RDX (T)

2.800min 213.070 ug/L

response 3812015

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

(b) (6)

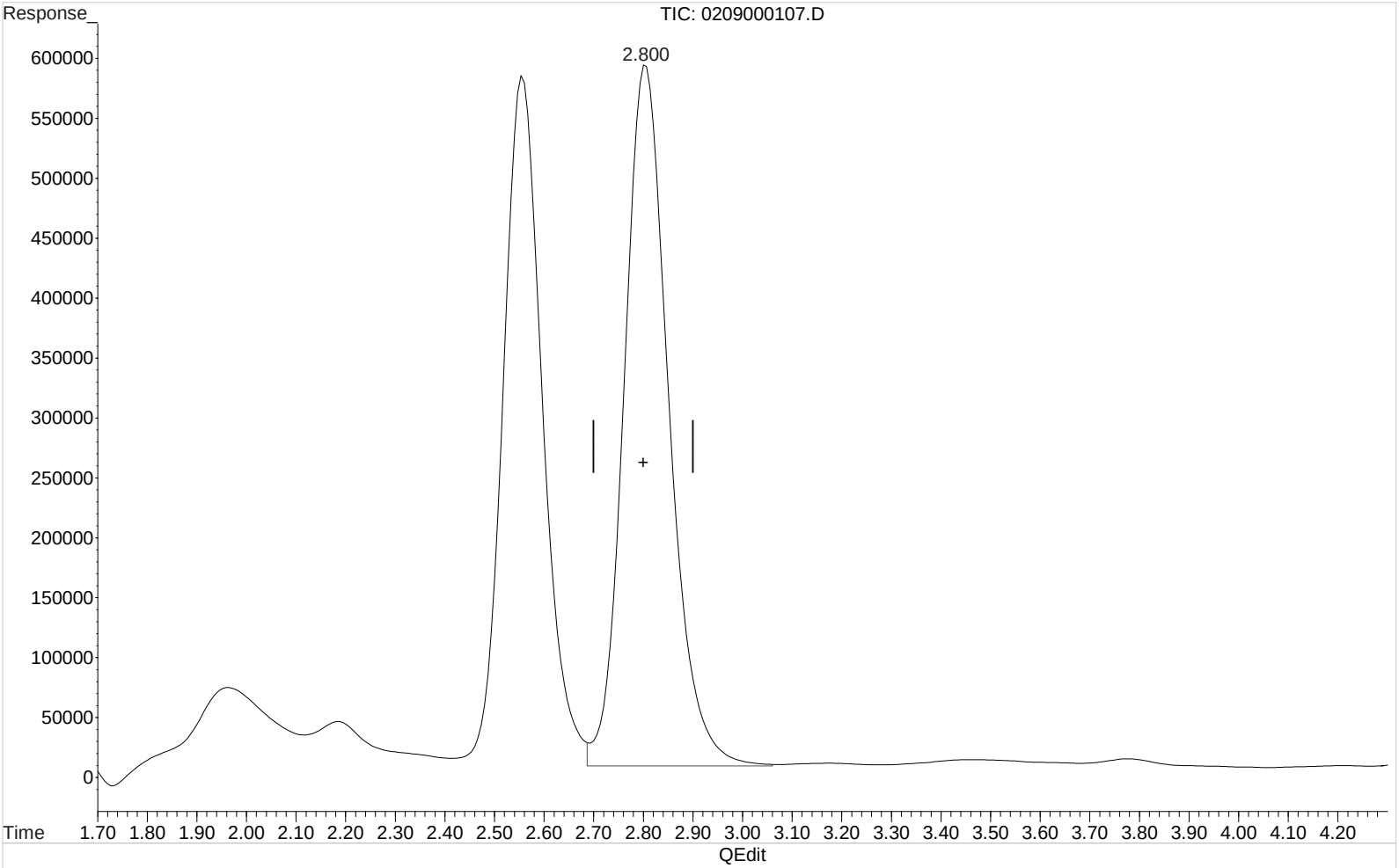
2/13/17

2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.800min 205.104 ug/L m

response 3669487

Manual Integration:

After

BLC

02/13/17

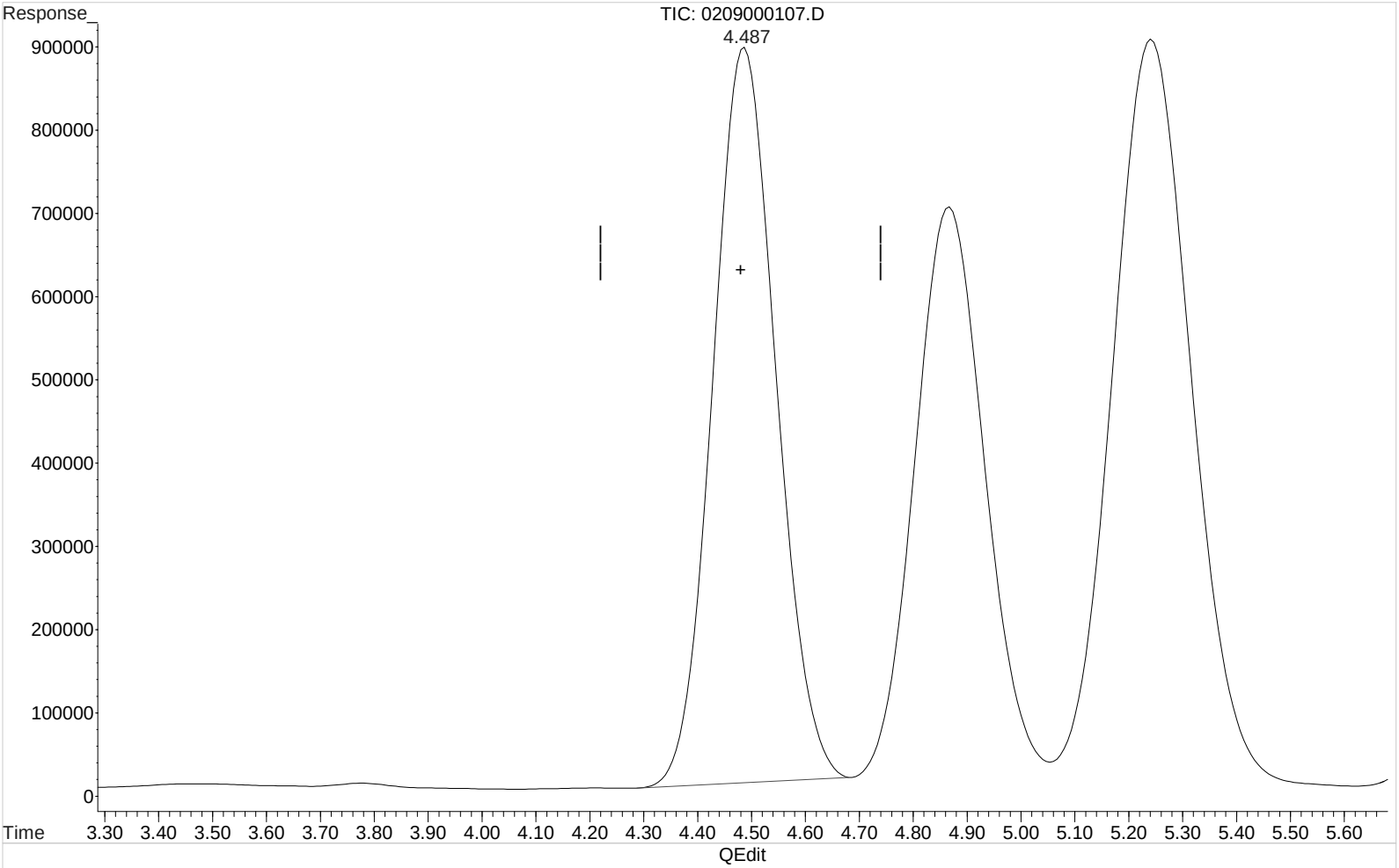
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 194.479 ug/L

response 7204041

Manual Integration:

Before

02/13/17

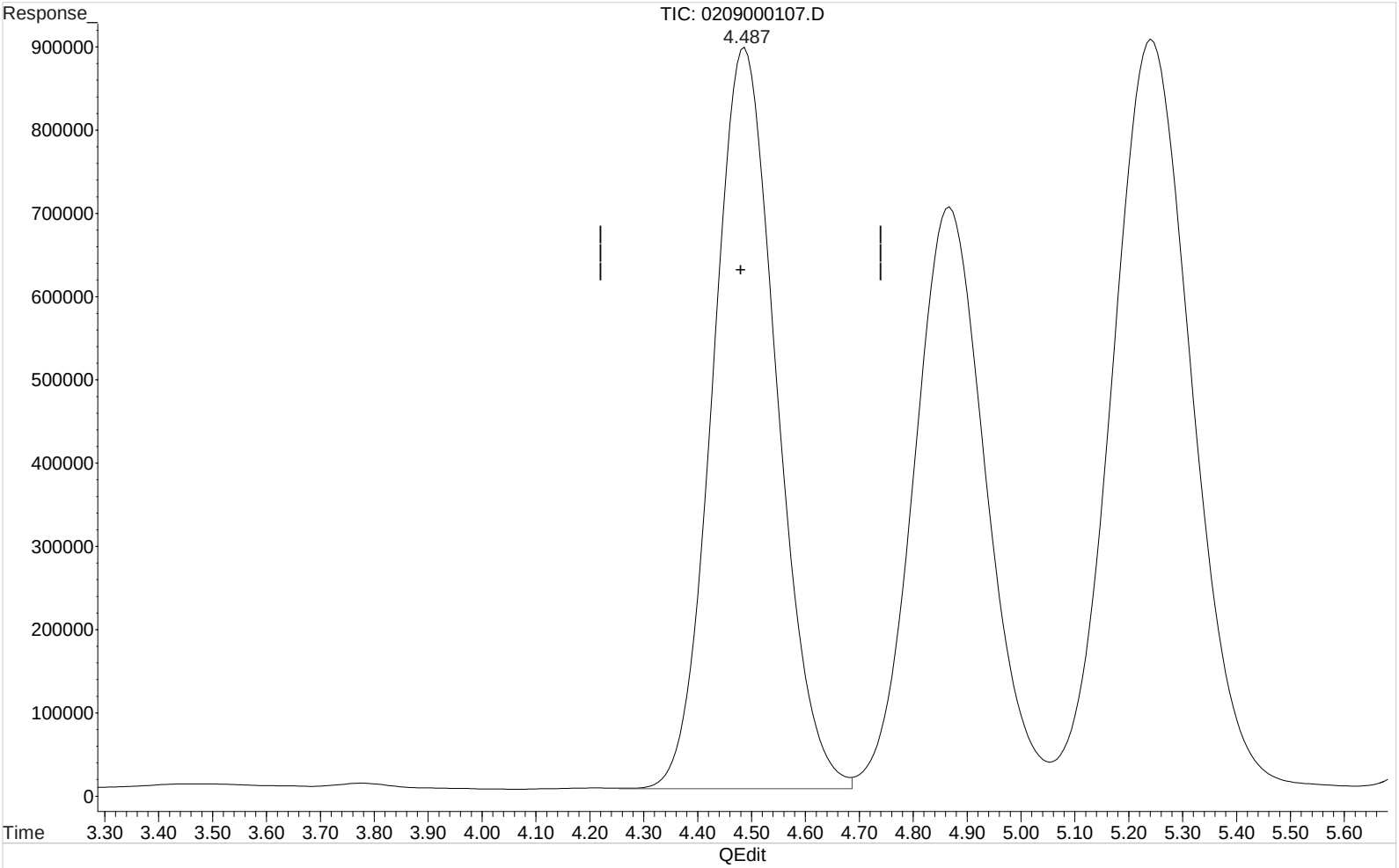
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 199.195 ug/L m

response 7378721

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

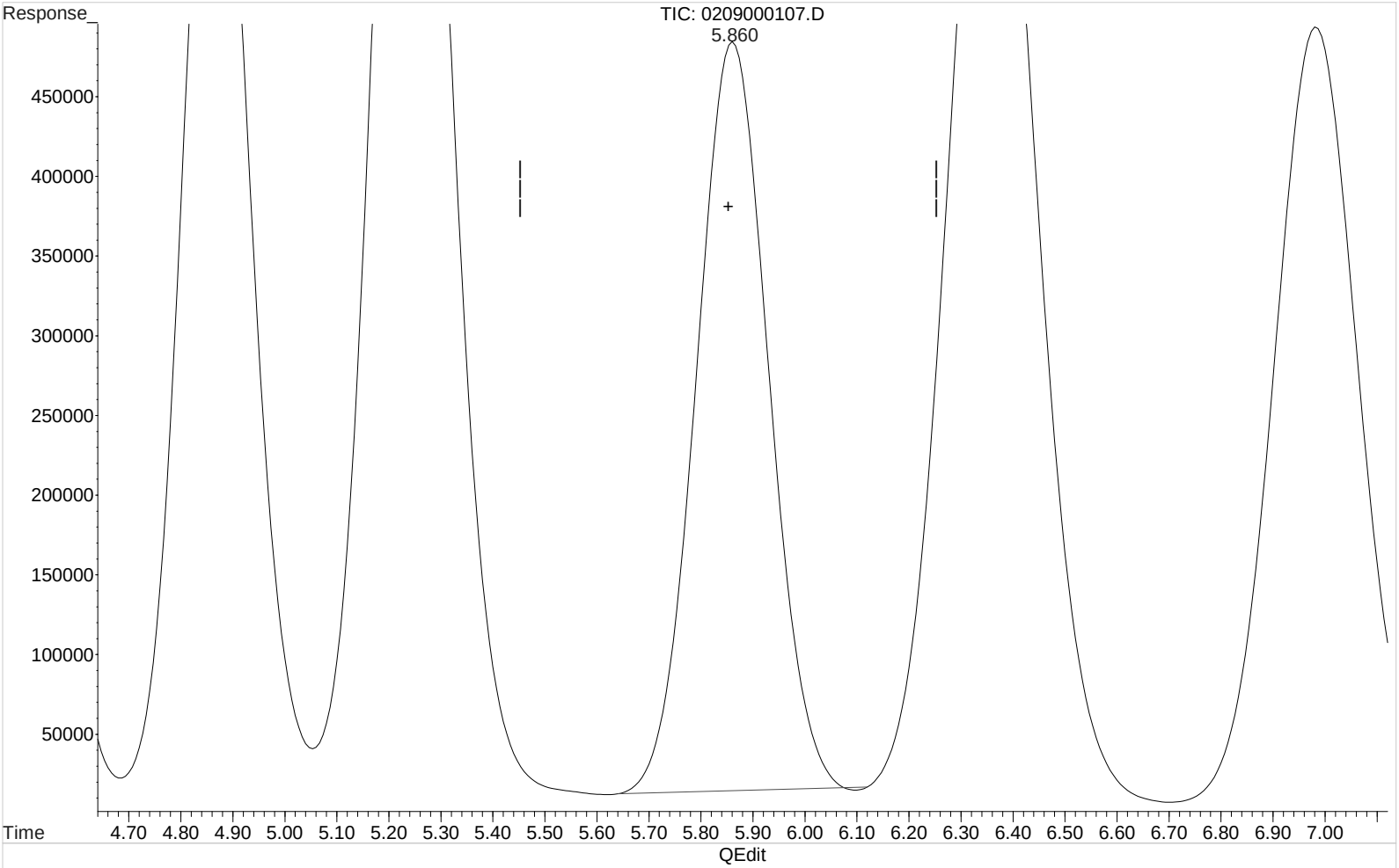
1st 02/13/17

2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.860min 193.337 ug/L

response 4561182

Manual Integration:

Before

02/13/17

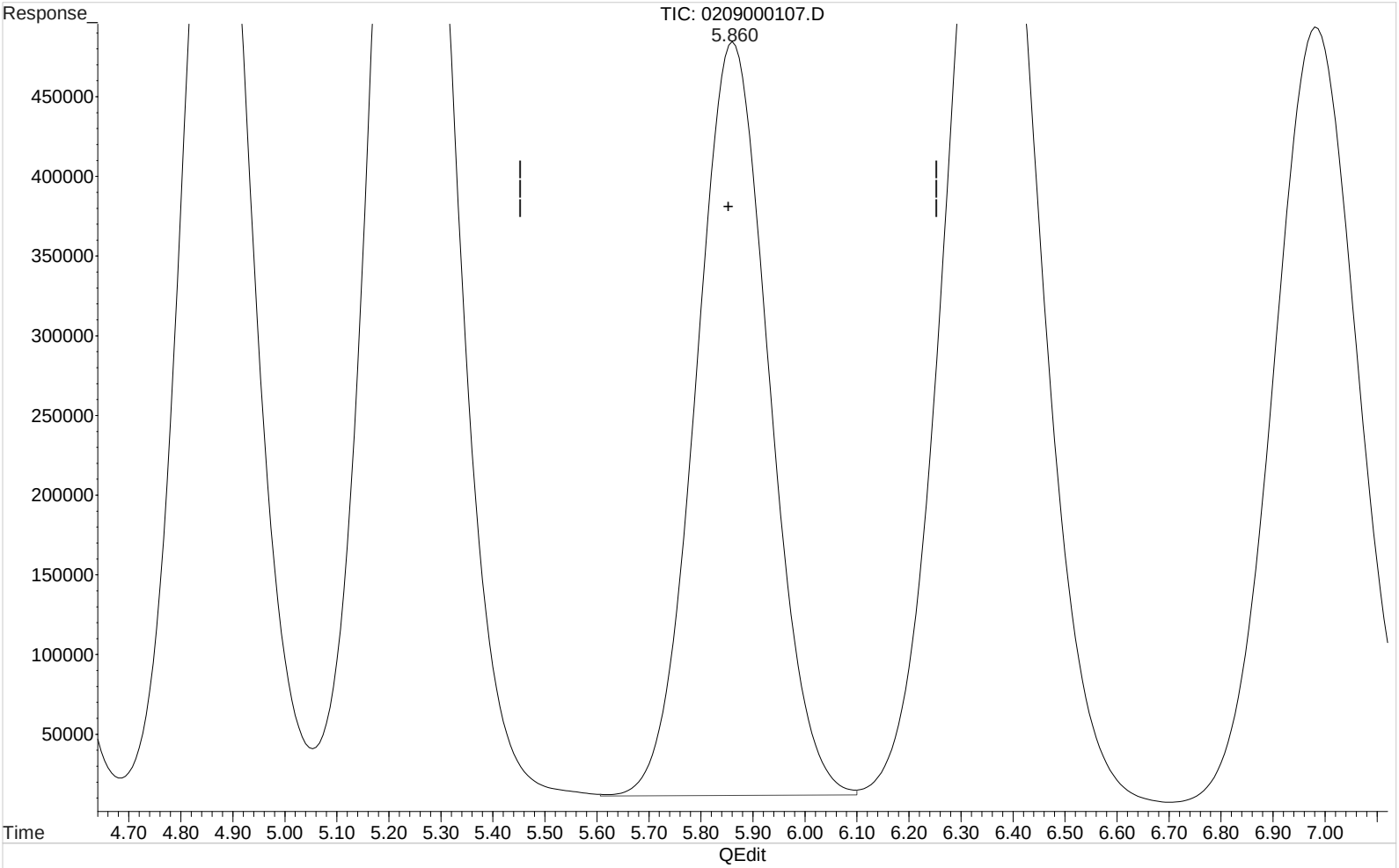
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.860min 196.985 ug/L m

response 4647246

Manual Integration:

After

BLC

02/13/17

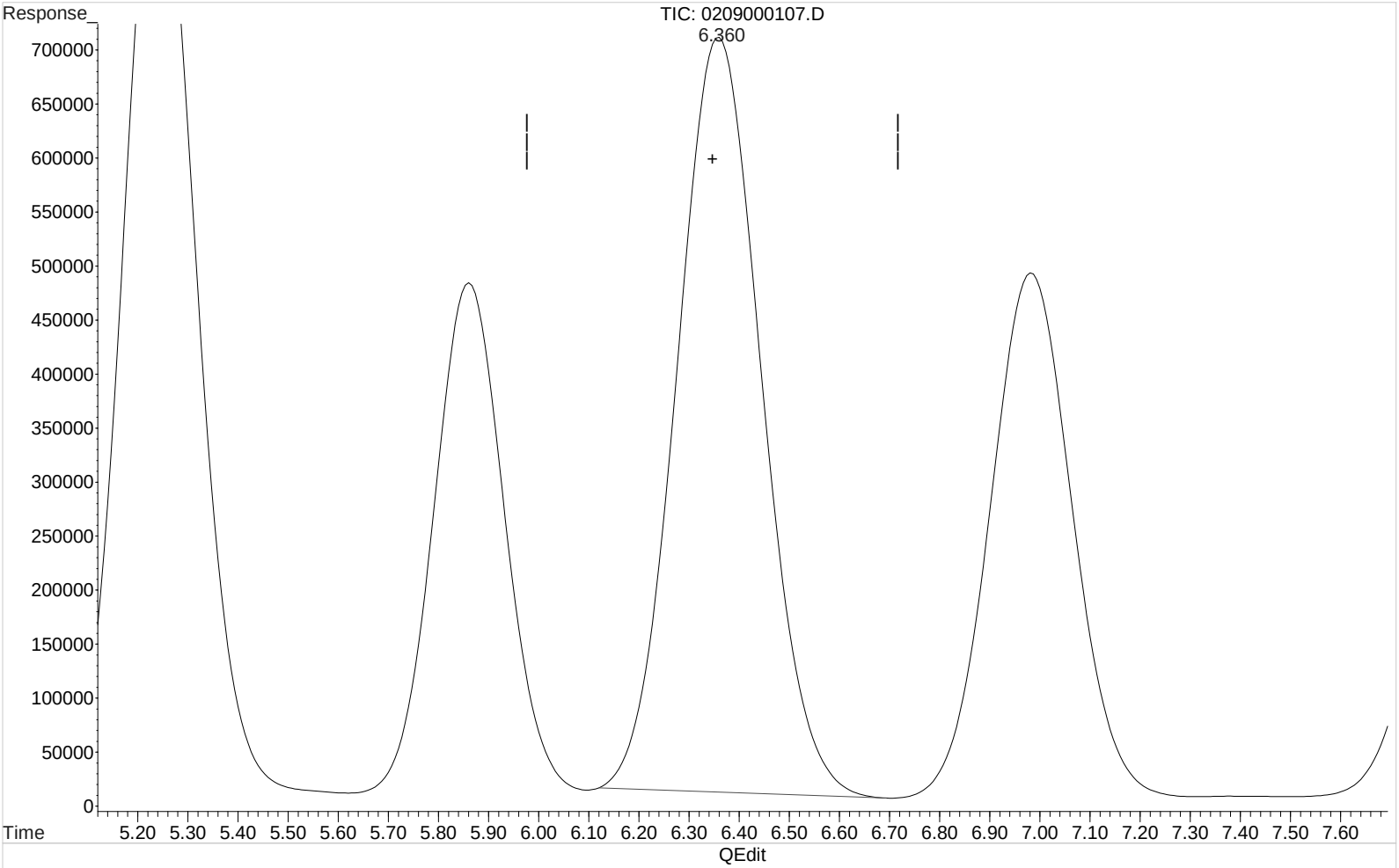
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.360min 197.248 ug/L

response 8226412

Manual Integration:

Before

02/13/17

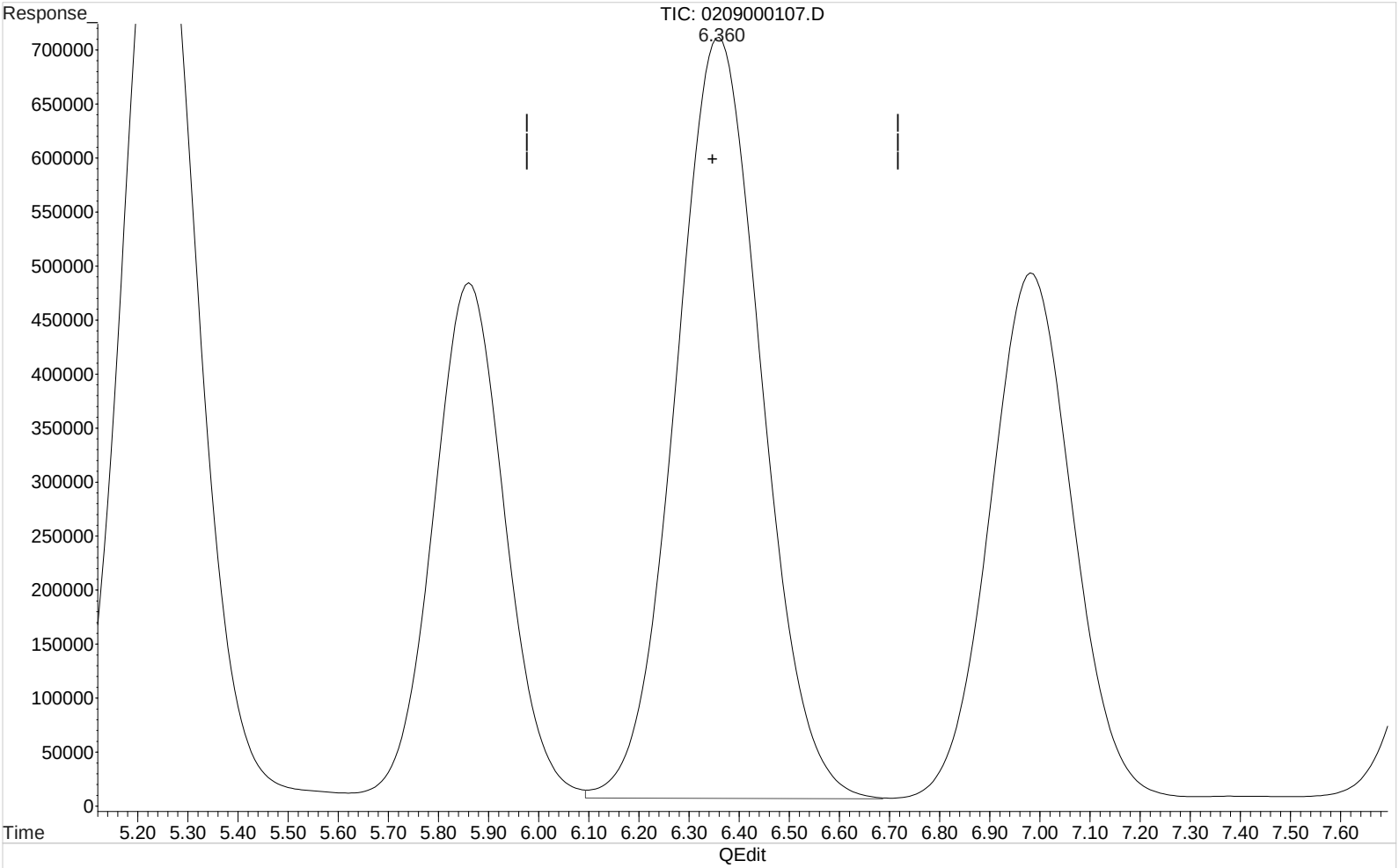
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(7) 2-Amino-4,6-DNT (T)

6.360min 201.757 ug/L m

response 8414458

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

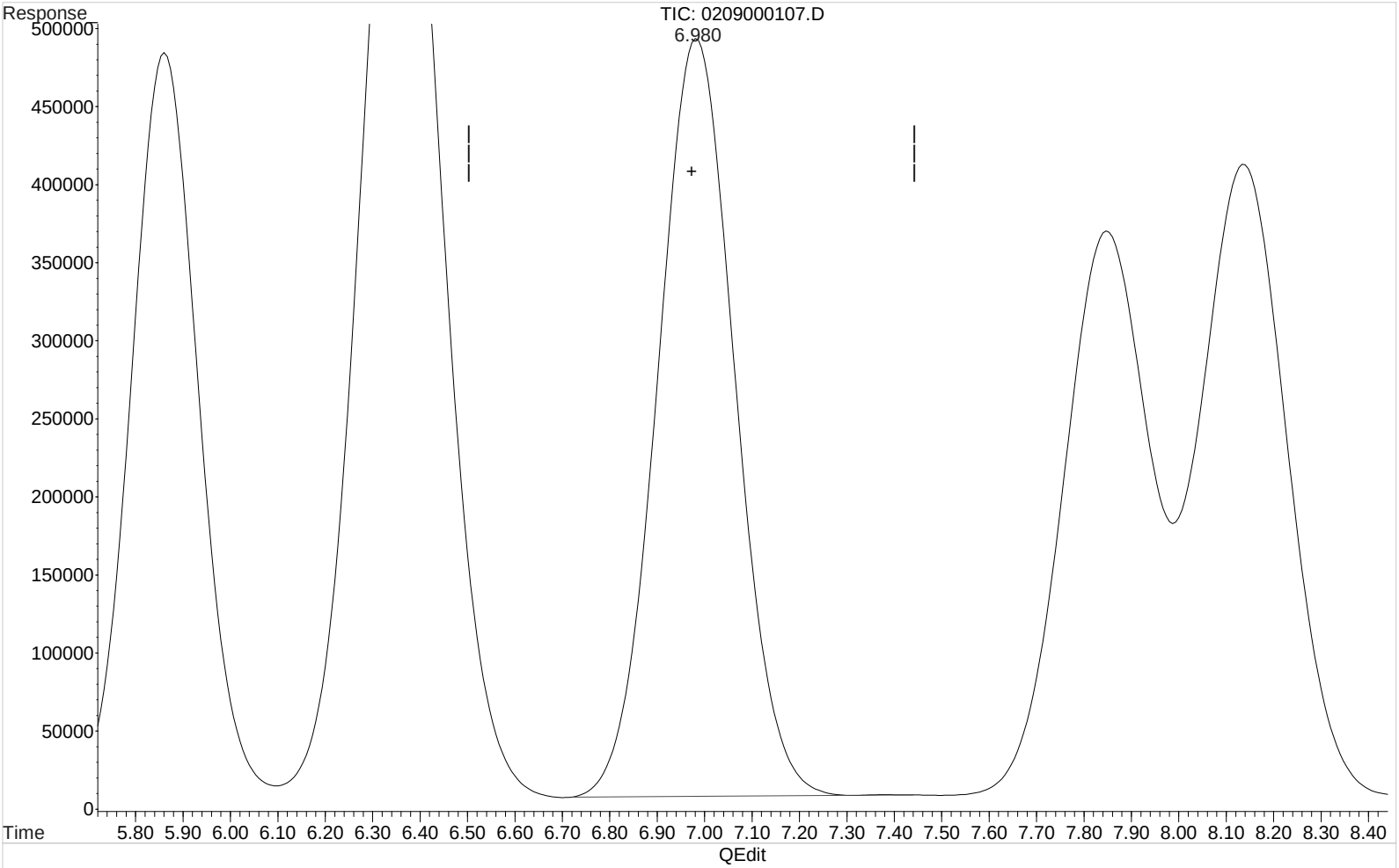
Quantitation Report (Qedit)

1st (b)(6) 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(8) 3-NT (T)

6.980min 198.747 ug/L

response 5525861

Manual Integration:

Before

02/13/17

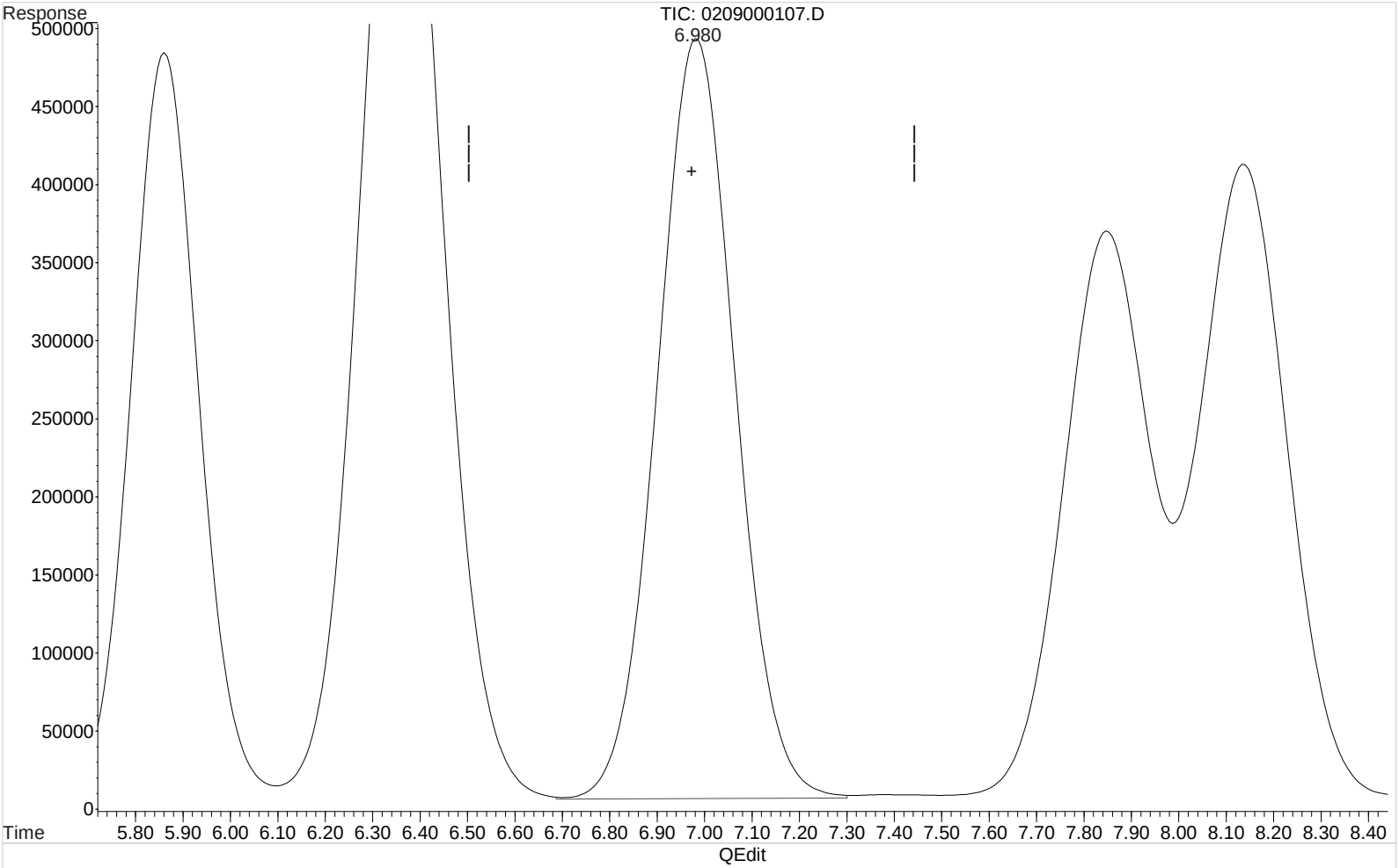
(+) = Expected Retention Time

(b) (6)
1st [redacted] 02/13/17
2n [redacted] 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(8) 3-NT (T)

6.980min 200.643 ug/L m

response 5578596

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:00:13 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
11)	S	1-Chloro-3-Nitrobenzene	8.153	13230585	502.803	ug/L	m
		Target Compounds					
1)	T	HMX	2.560	7981926	511.454	ug/L	m
2)	T	RDX	2.807	9178077	515.685	ug/L	m
3)	T	Nitrobenzene	4.493	18916422	512.854	ug/L	m
4)	T	3,5-Dinitroaniline	5.253	23535159	511.057	ug/L	m
5)	T	4-Amino-2,6-DNT	4.880	16219825	516.408	ug/L	m
6)	T	2-NT	5.873	11974356	509.102	ug/L	m
7)	T	2-Amino-4,6-DNT	6.373	21311094	513.240	ug/L	m
8)	T	3-NT	6.993	14136686	510.173	ug/L	
9)	T	1,3-DNB	9.147	28581861	520.162	ug/L	
10)	T	4-NT	7.860	11759716	519.059	ug/L	m
12)	T	2,6-DNT	8.833	12553164	514.394	ug/L	m
13)	T	2,4-DNT	14.840	25979956	514.609	ug/L	
14)	T	Tetryl	13.020	14255446	487.896	ug/L	m
15)	T	1,3,5-TNB	19.840	21117484	516.366	ug/L	
16)	T	2,4,6-TNT	20.820	19559701	508.406	ug/L	

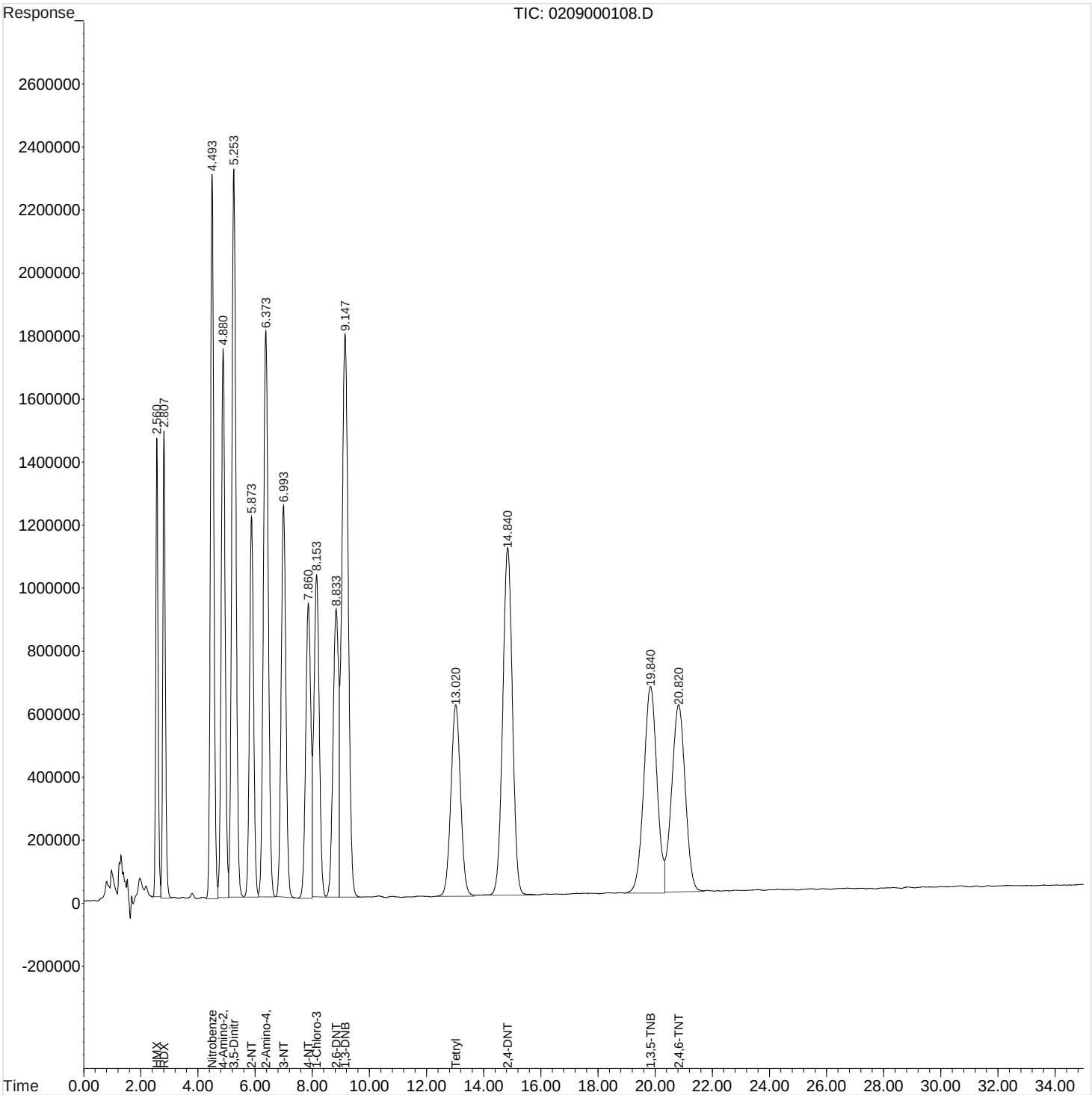
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:00:13 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



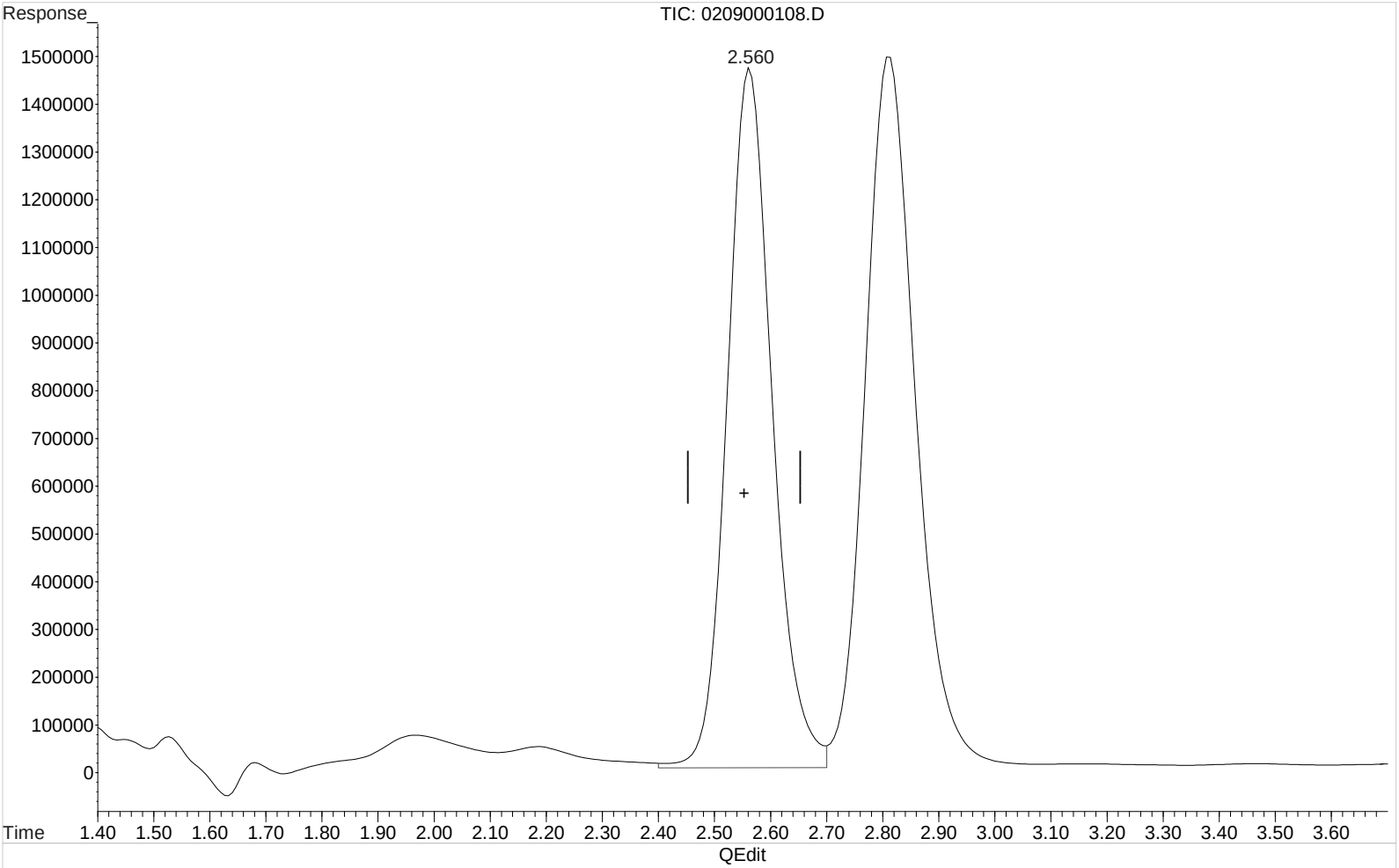
Quantitation Report (Qedit)

(b) (6)
1st 02/13/17
2n 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.560min 523.210 ug/L

response 8165394

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

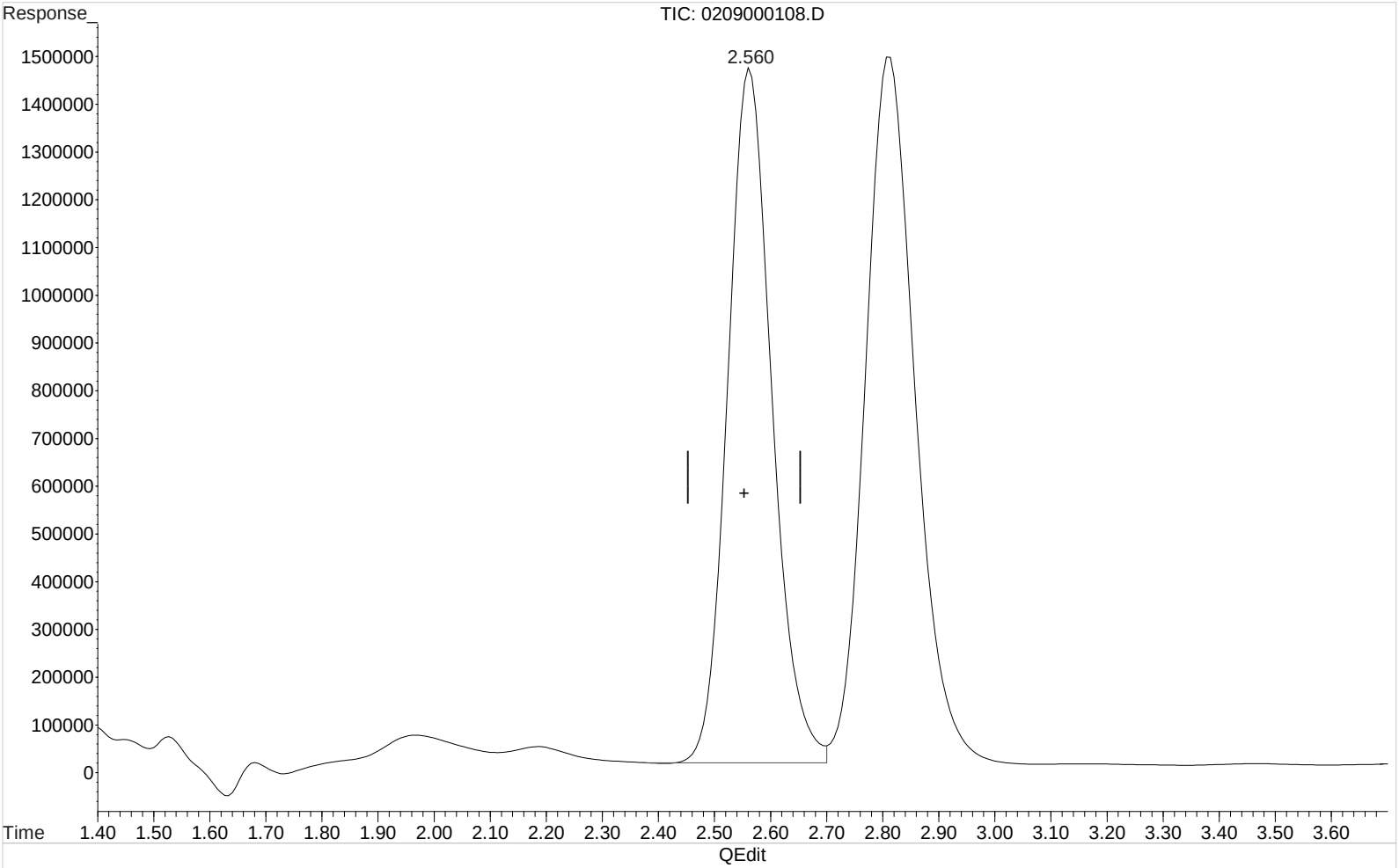
Quantitation Report (Qedit)

(b) (6)
1st [redacted] 2/13/17
2nd [redacted] 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.560min 511.454 ug/L m

response 7981926

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

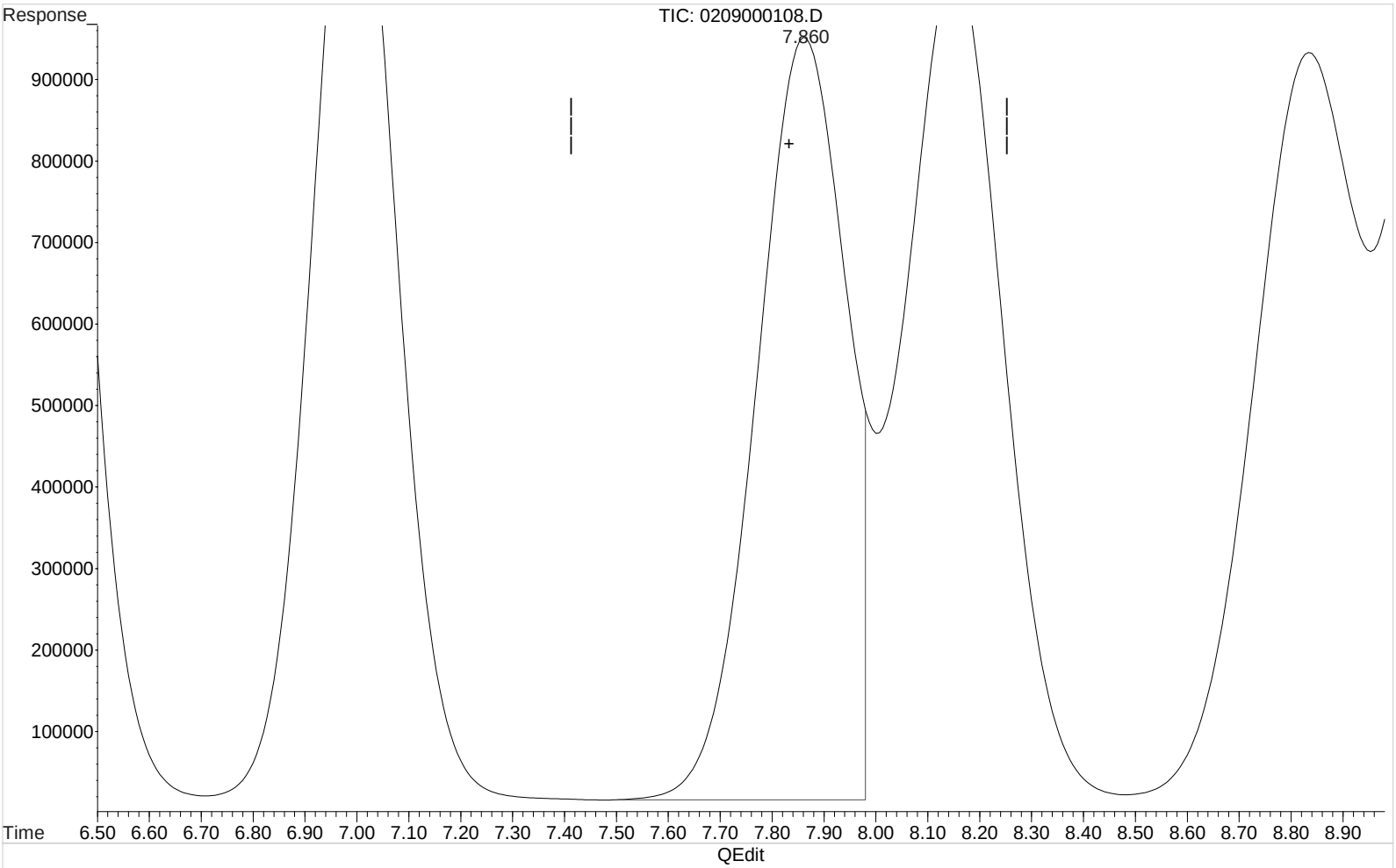
Quantitation Report (Qedit)

(b) (6)
1st 02/13/17
2n 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.860min 494.354 ug/L

response 11200008

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

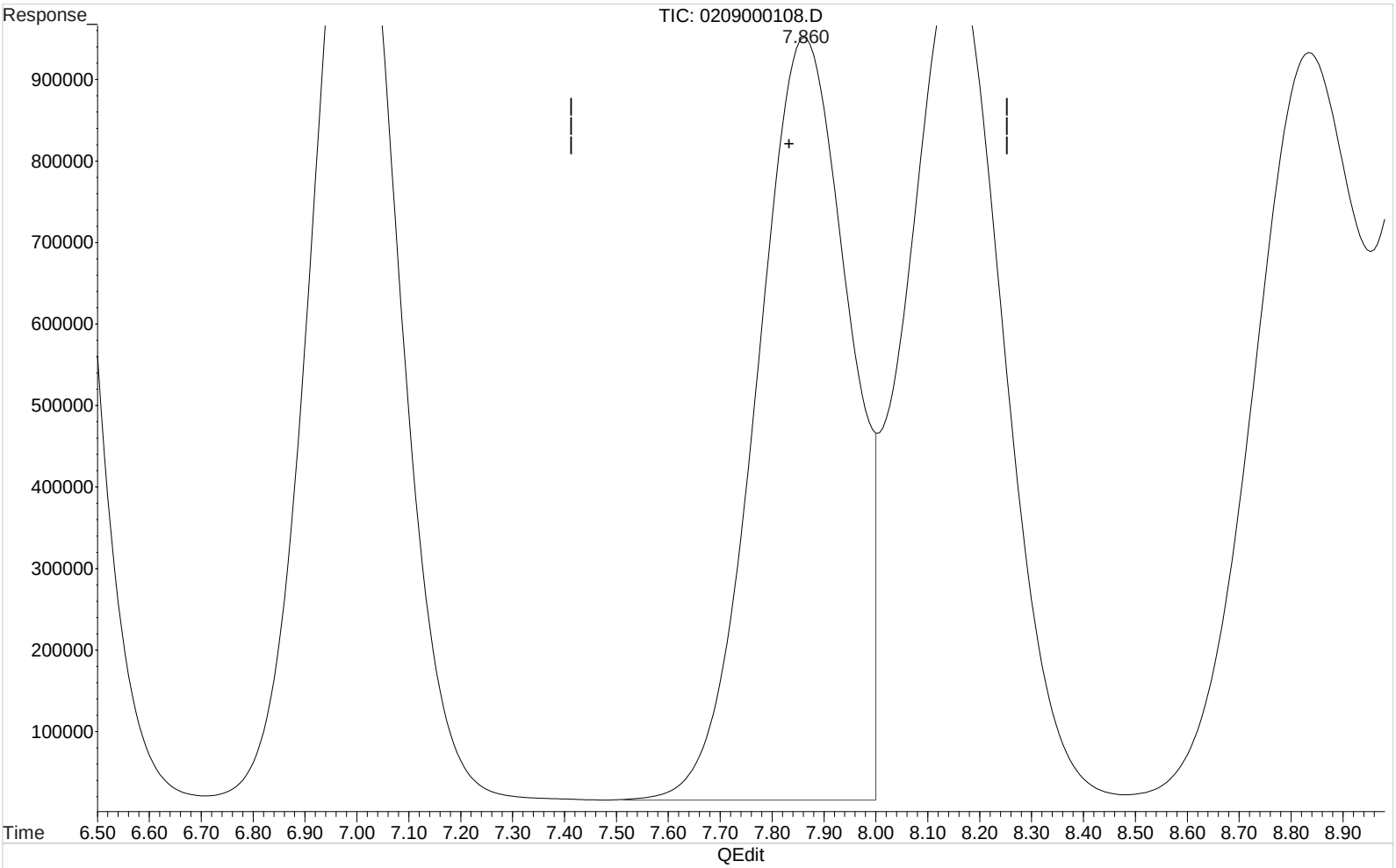
Quantitation Report (Qedit)

(b)
1st (6) 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.860min 519.059 ug/L m

response 11759716

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

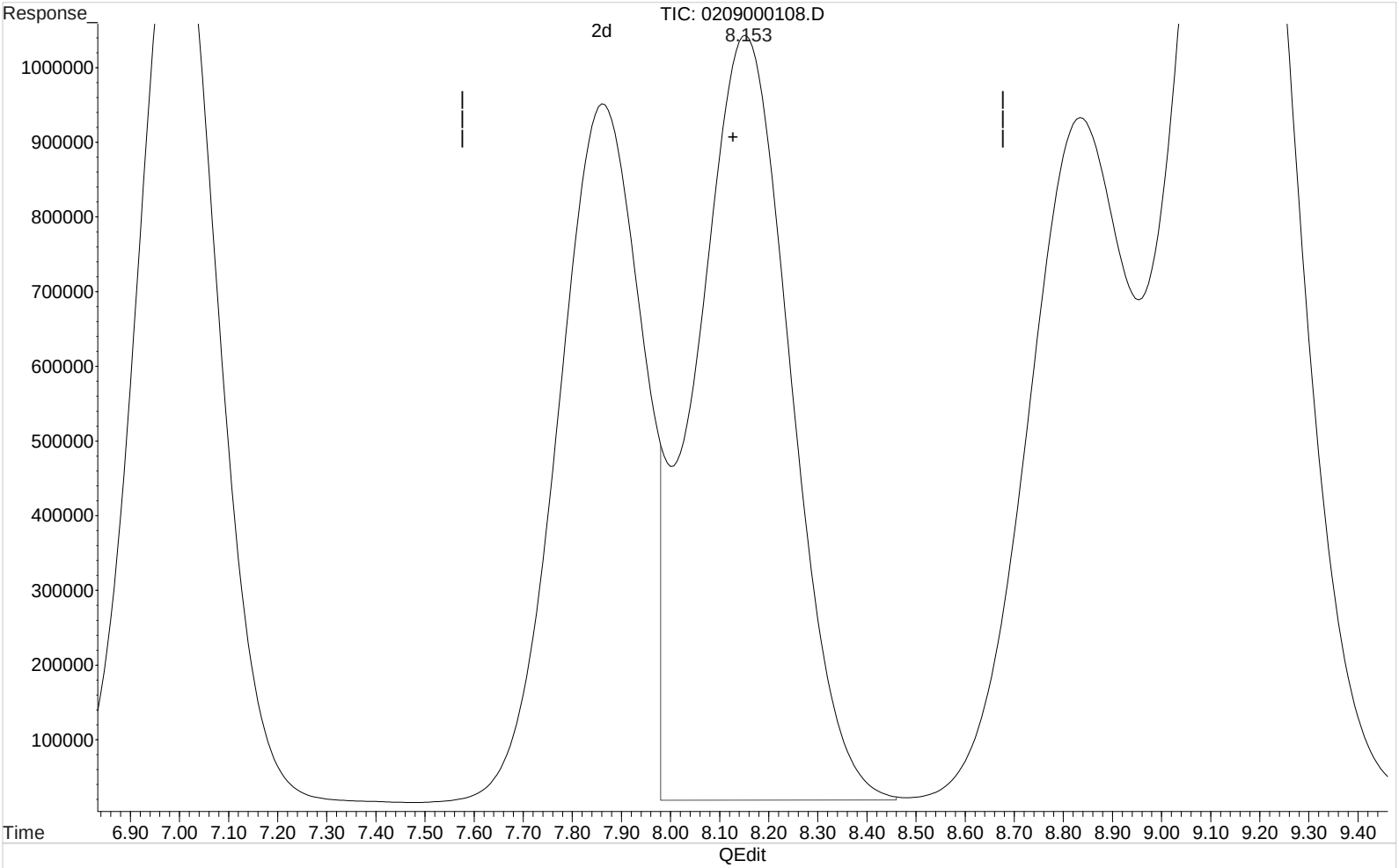
Quantitation Report (Qedit)

(b)(6) 1st 02/13/17 2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(11) 1-Chloro-3-Nitrobenzene (S)

8.153min 524.076 ug/L

response 13790355

Manual Integration:

Before

02/13/17

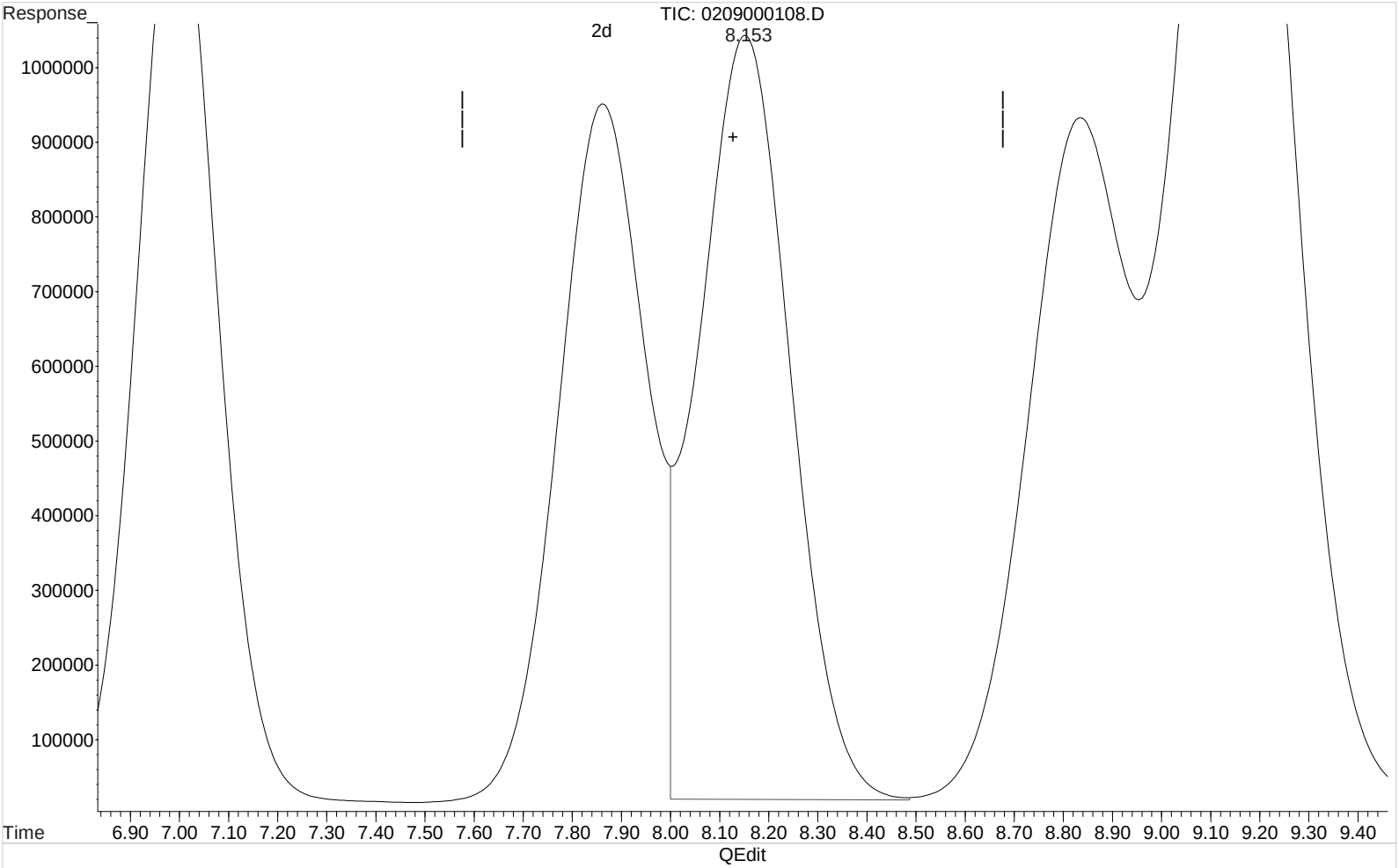
(+) = Expected Retention Time

(b)(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(11) 1-Chloro-3-Nitrobenzene (S)

8.153min 502.803 ug/L m

response 13230585

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

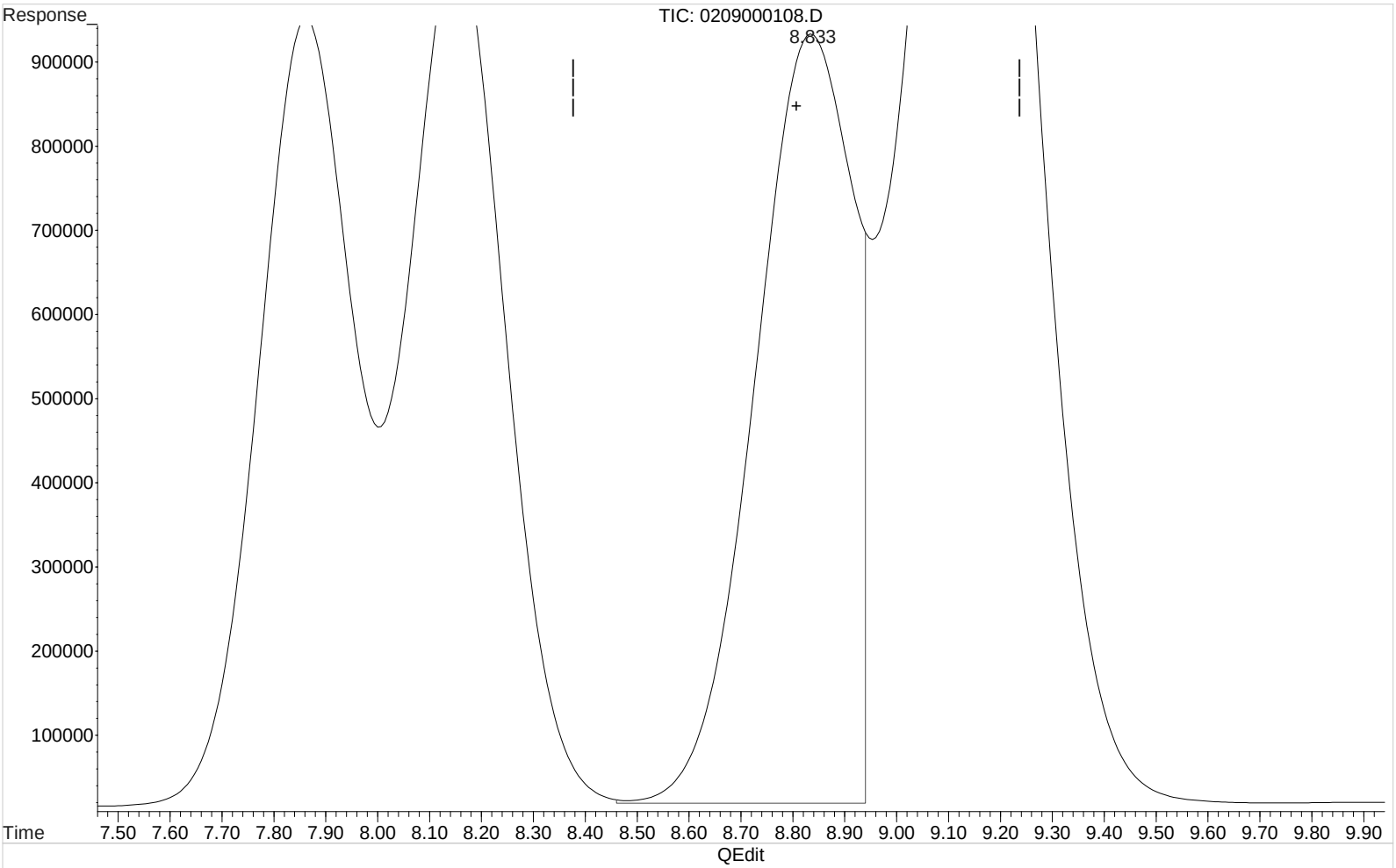
Quantitation Report (Qedit)

(b) (6)
1st [redacted] 02/13/17
2n [redacted] 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(12) 2,6-DNT (T)

8.833min 492.505 ug/L

response 12018989

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

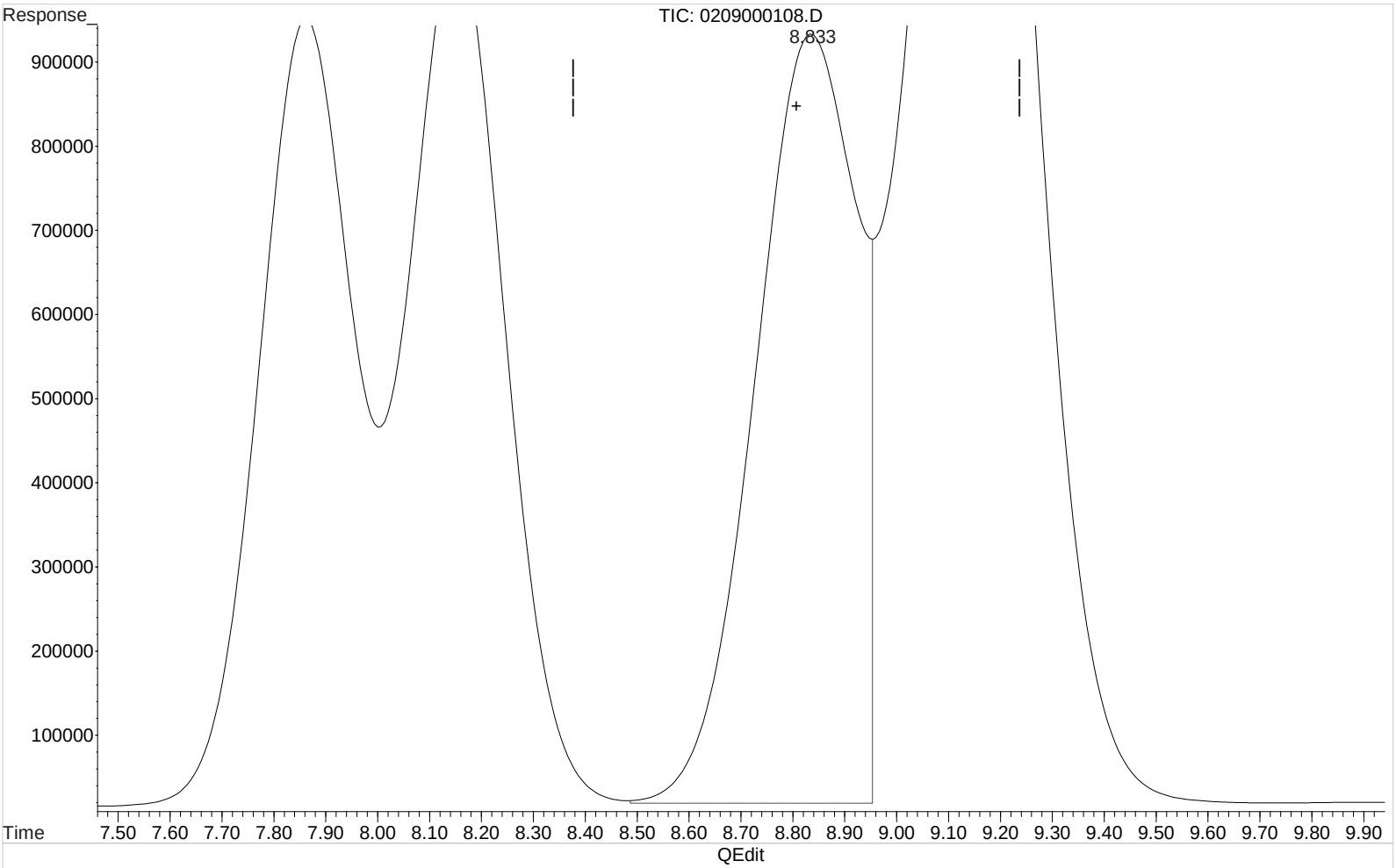
Quantitation Report (Qedit)

(b) (6)
1st [redacted] 02/13/17
2nd [redacted] 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(12) 2,6-DNT (T)

8.833min 514.394 ug/L m

response 12553164

Manual Integration:

After

BLC

02/13/17

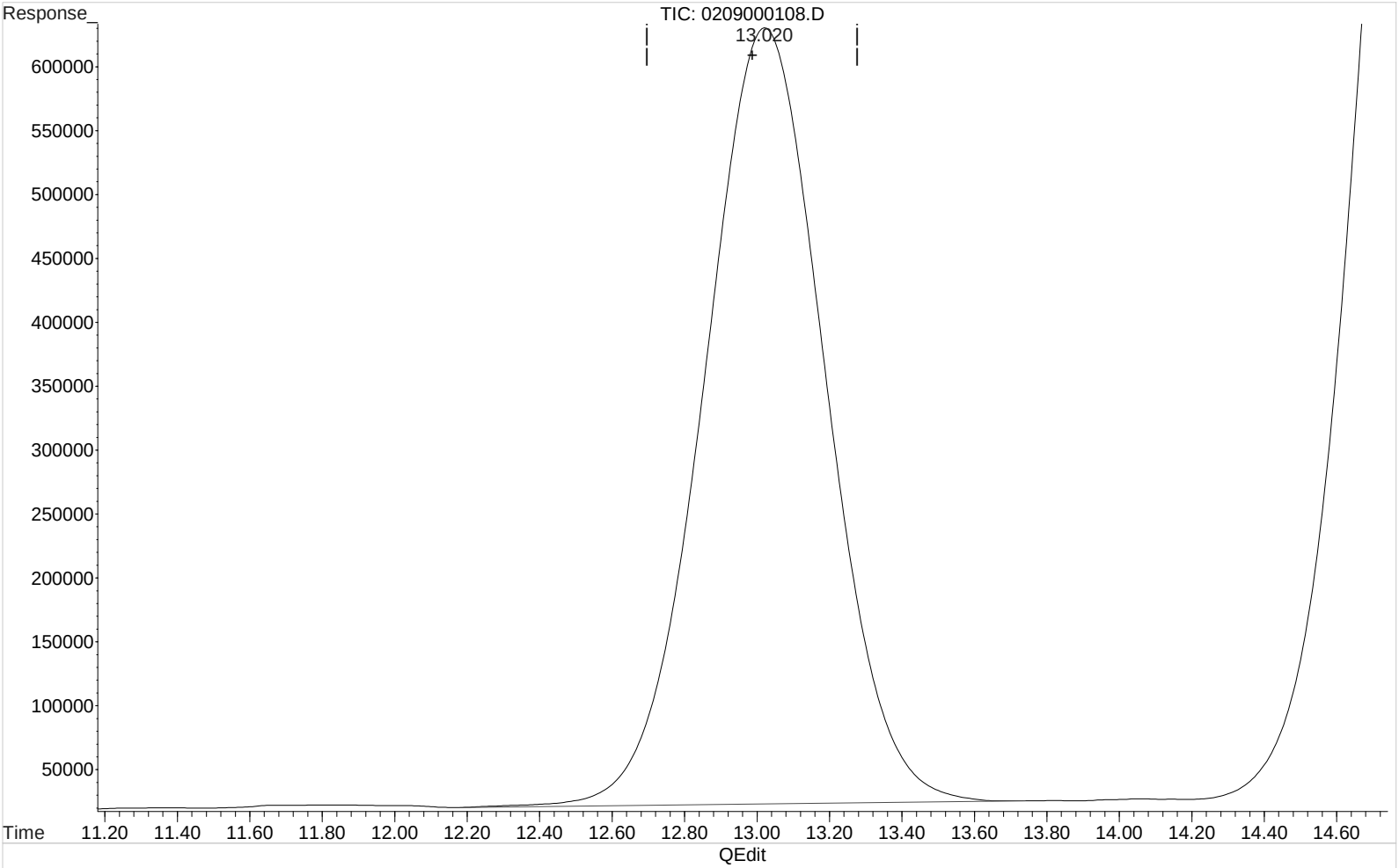
(+) = Expected Retention Time

1st (b) (6) 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:59:29 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(14) Tetryl (T)

13.020min 484.451 ug/L

response 14154790

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

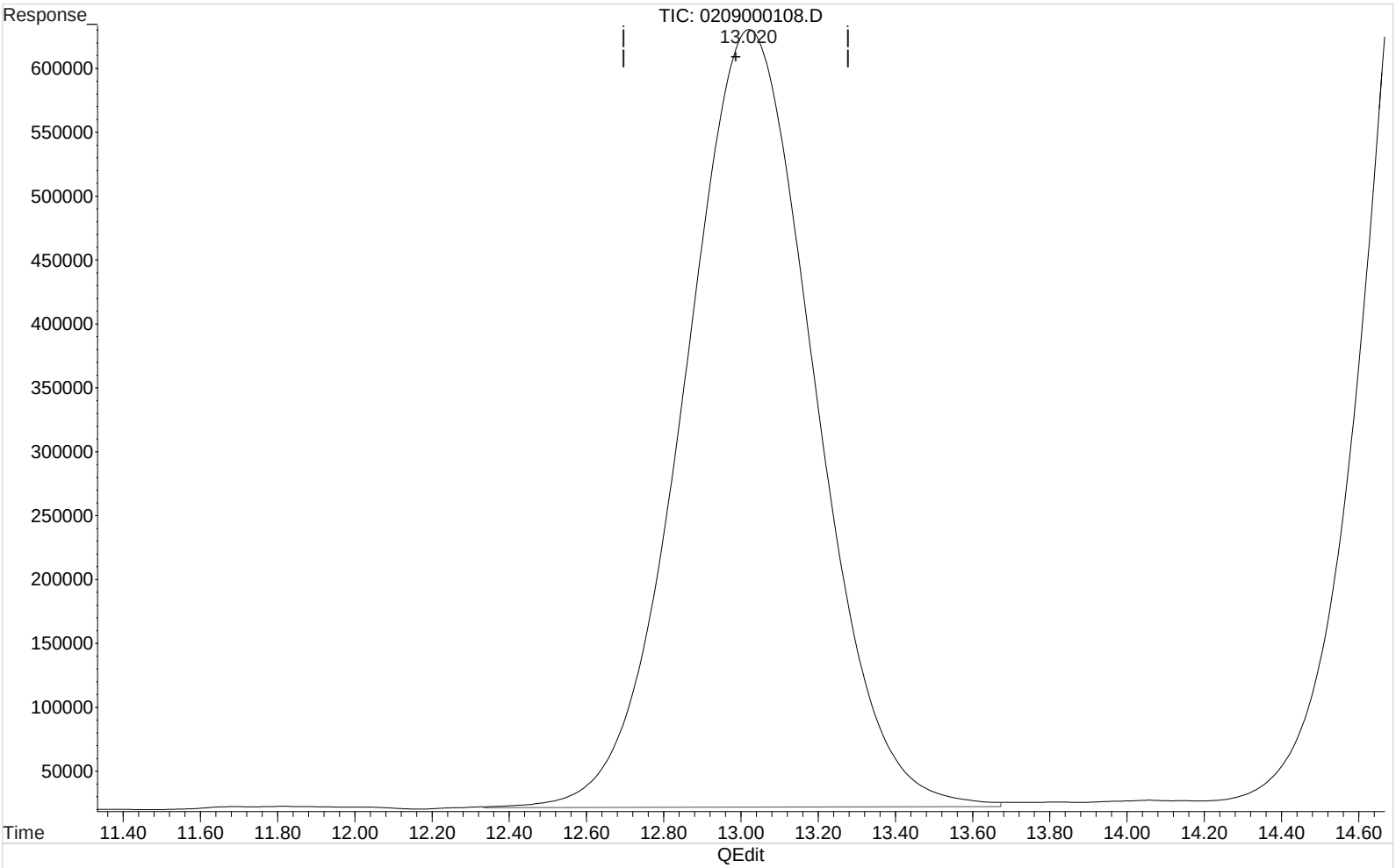
Quantitation Report (Qedit)

(b) (6)
1st /13/17
2nd /17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:00:13 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(14) Tetryl (T)

13.020min 487.896 ug/L m

response 14255446

Manual Integration:

After

BLC

02/13/17

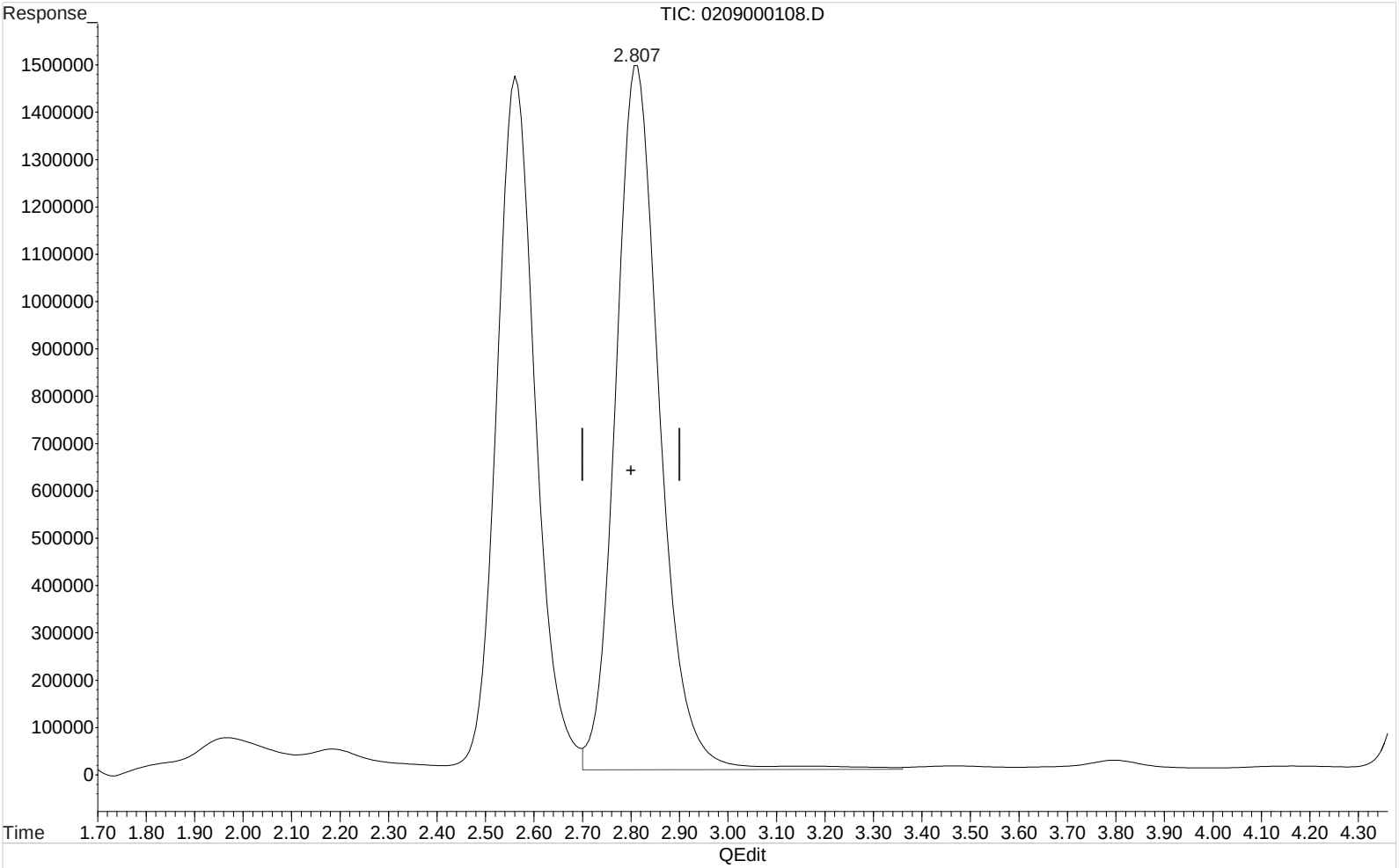
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.807min 528.530 ug/L

response 9406681

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

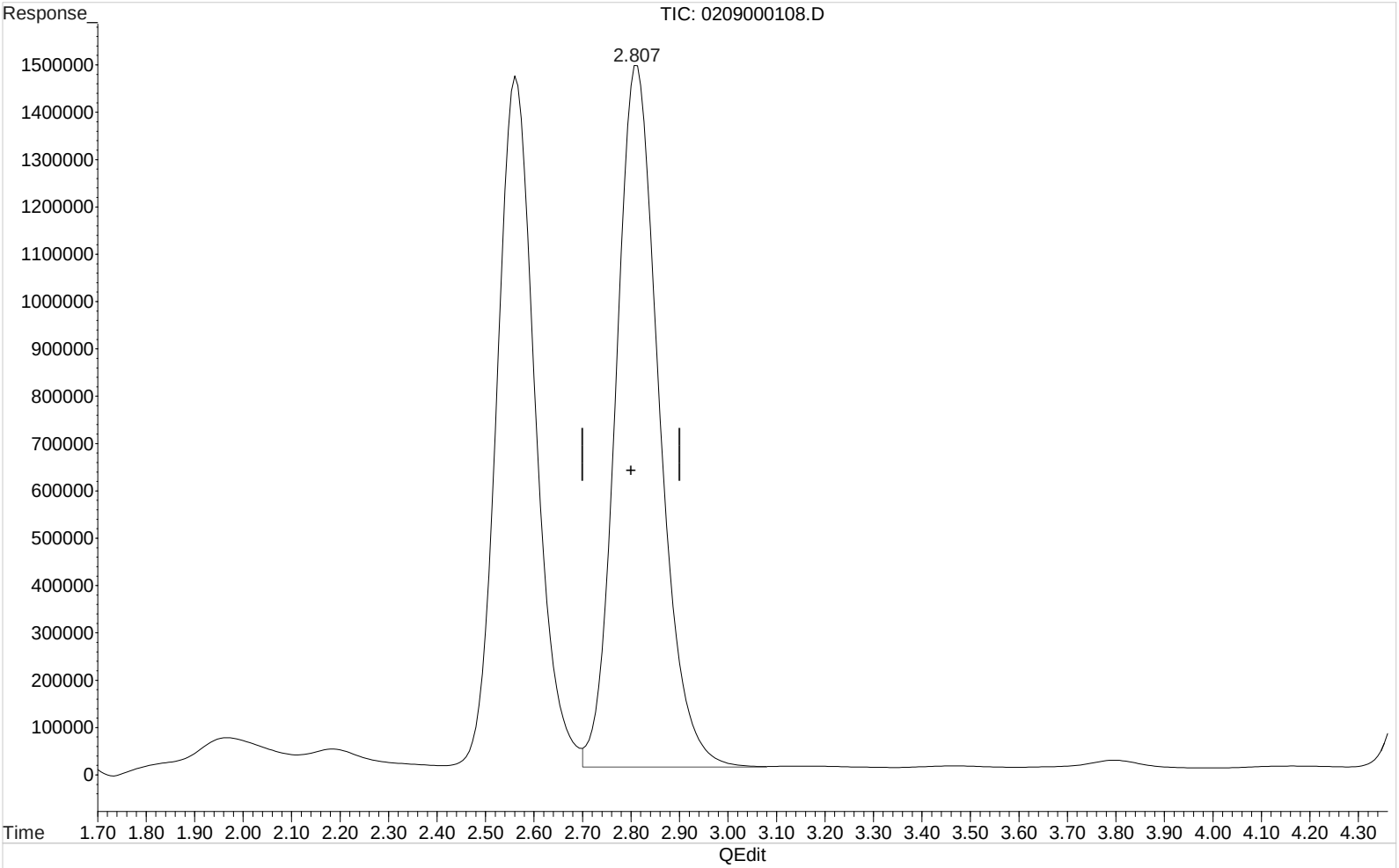
Quantitation Report (Qedit)

1st (b)(6) 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.807min 515.685 ug/L m

response 9178077

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

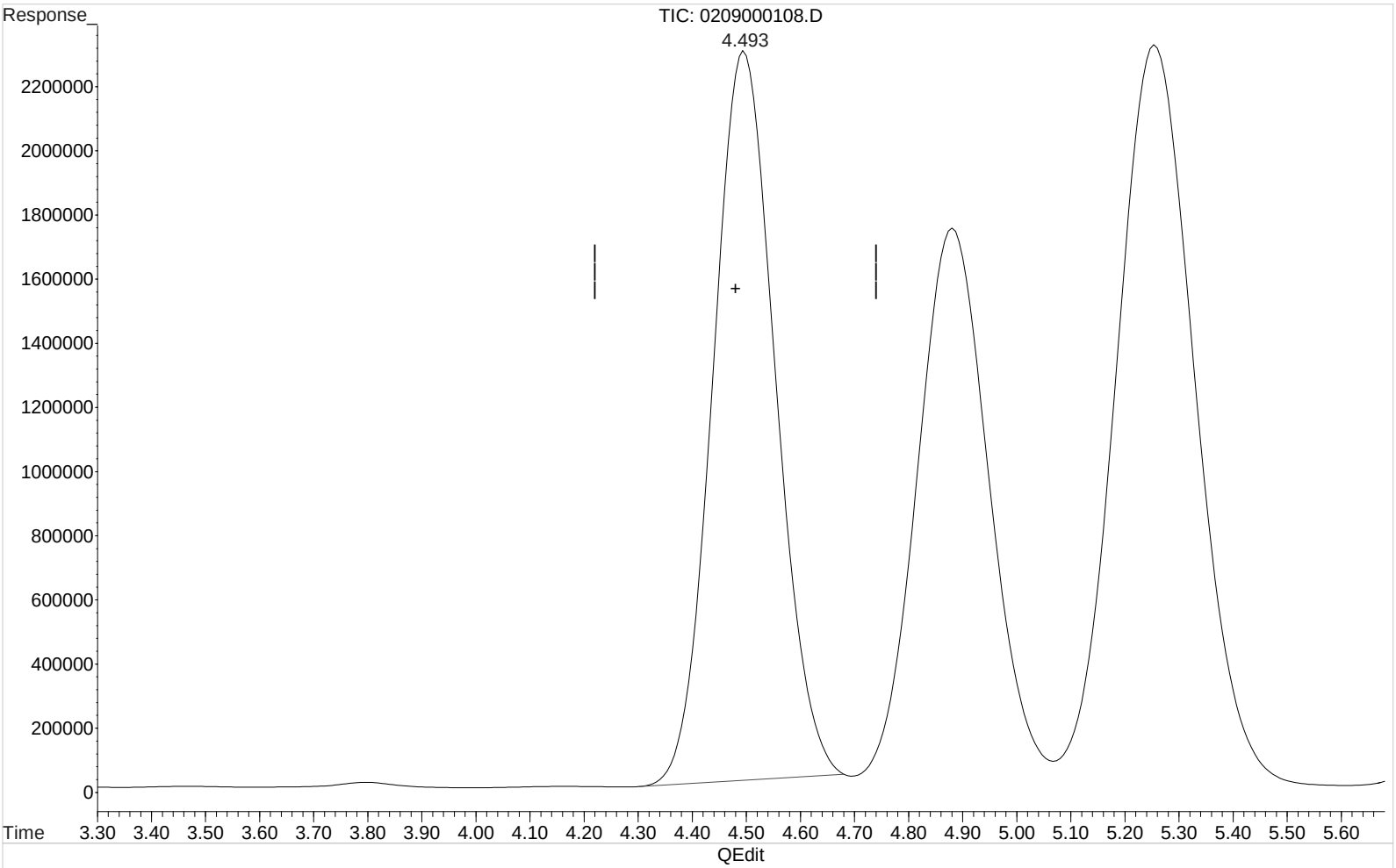
1st 02/13/17

2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(3) Nitrobenzene (T)

4.493min 497.348 ug/L

response 18344510

Manual Integration:

Before

02/13/17

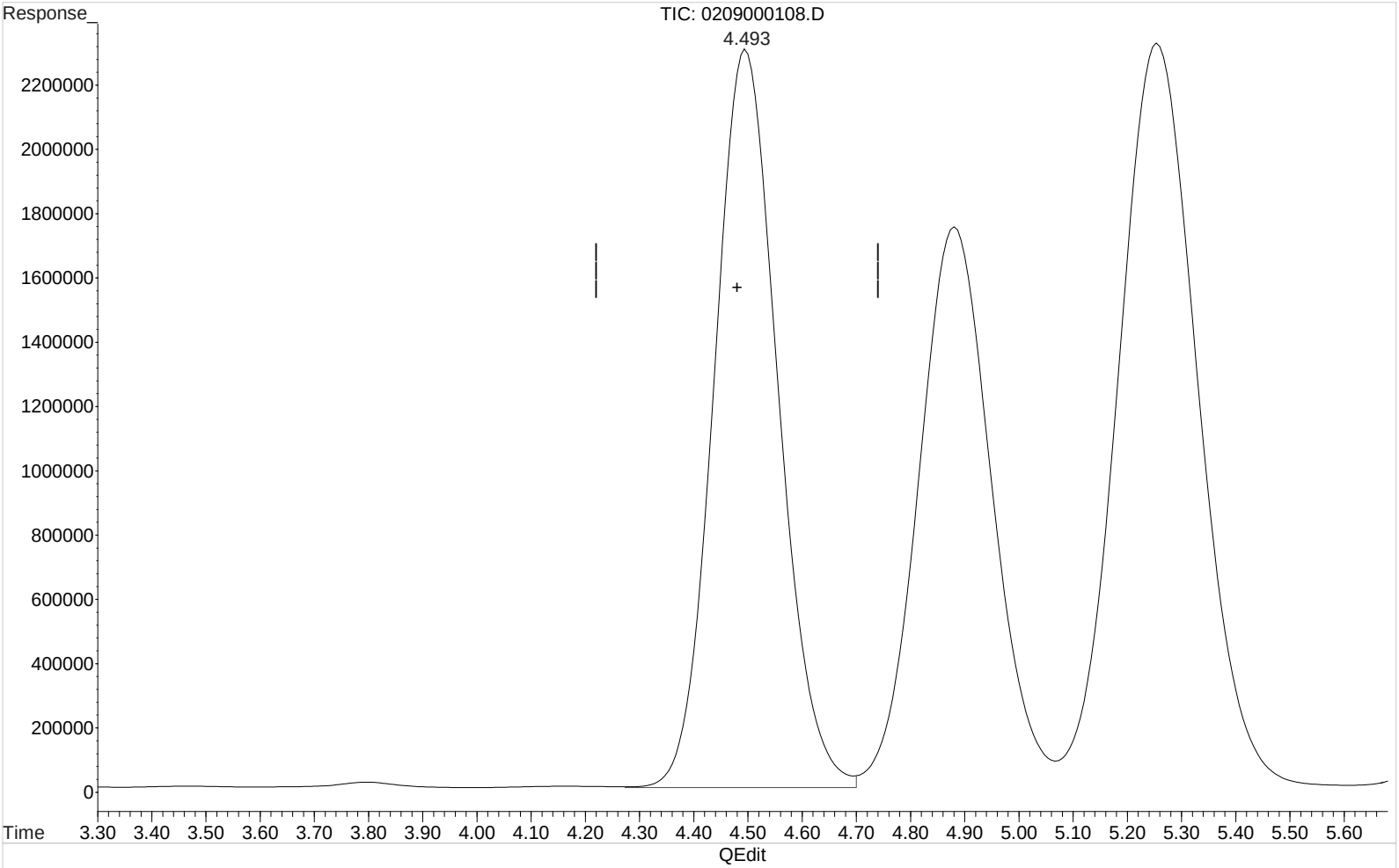
(+) = Expected Retention Time

(b) (6)
1st [redacted] 02/13/17
2n [redacted] 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.493min 512.854 ug/L m

response 18916422

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

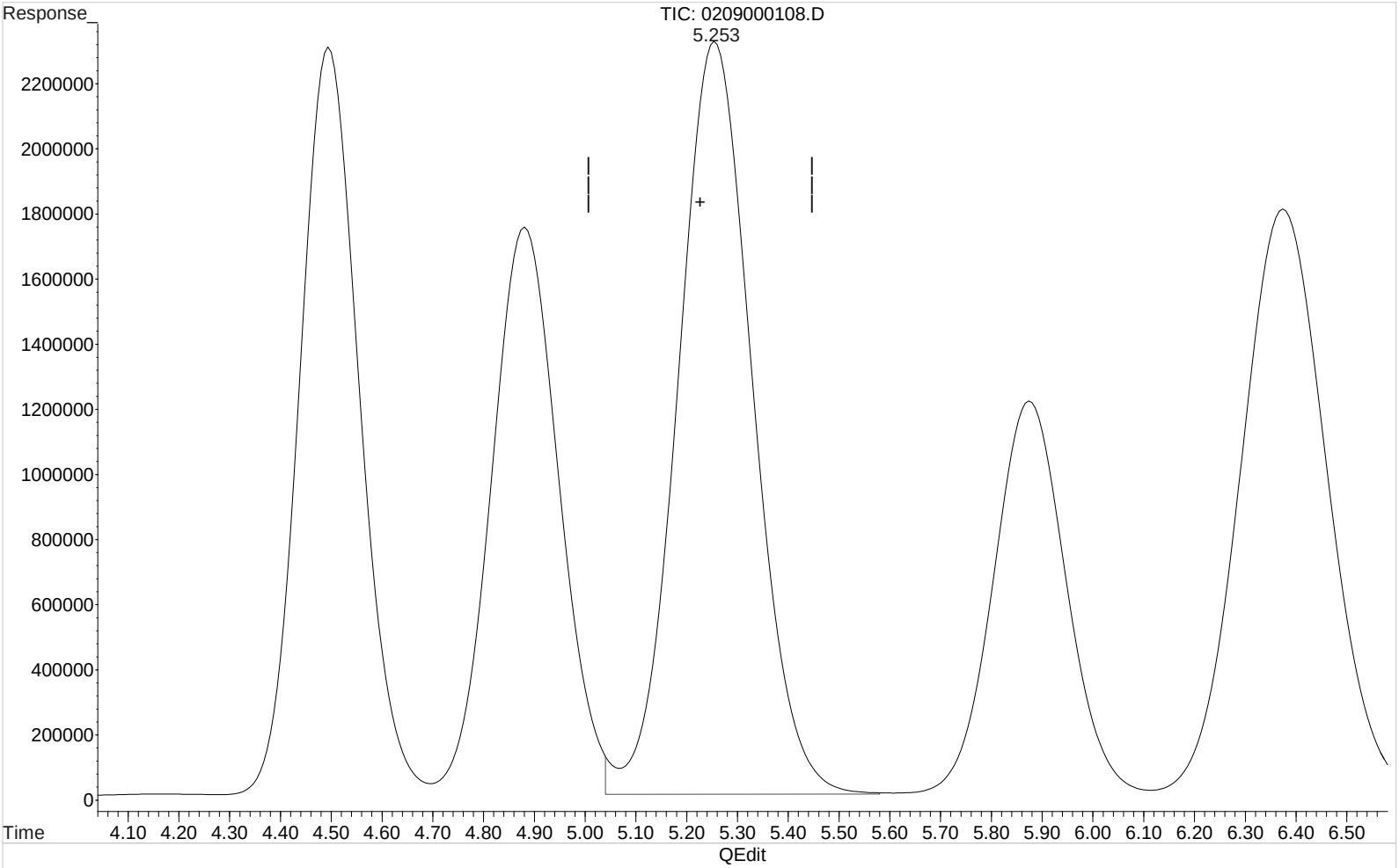
Quantitation Report (Qedit)

1st (b) (6) 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(4) 3,5-Dinitroaniline (T)

5.253min 515.473 ug/L

response 23738537

Manual Integration:

Before

02/13/17

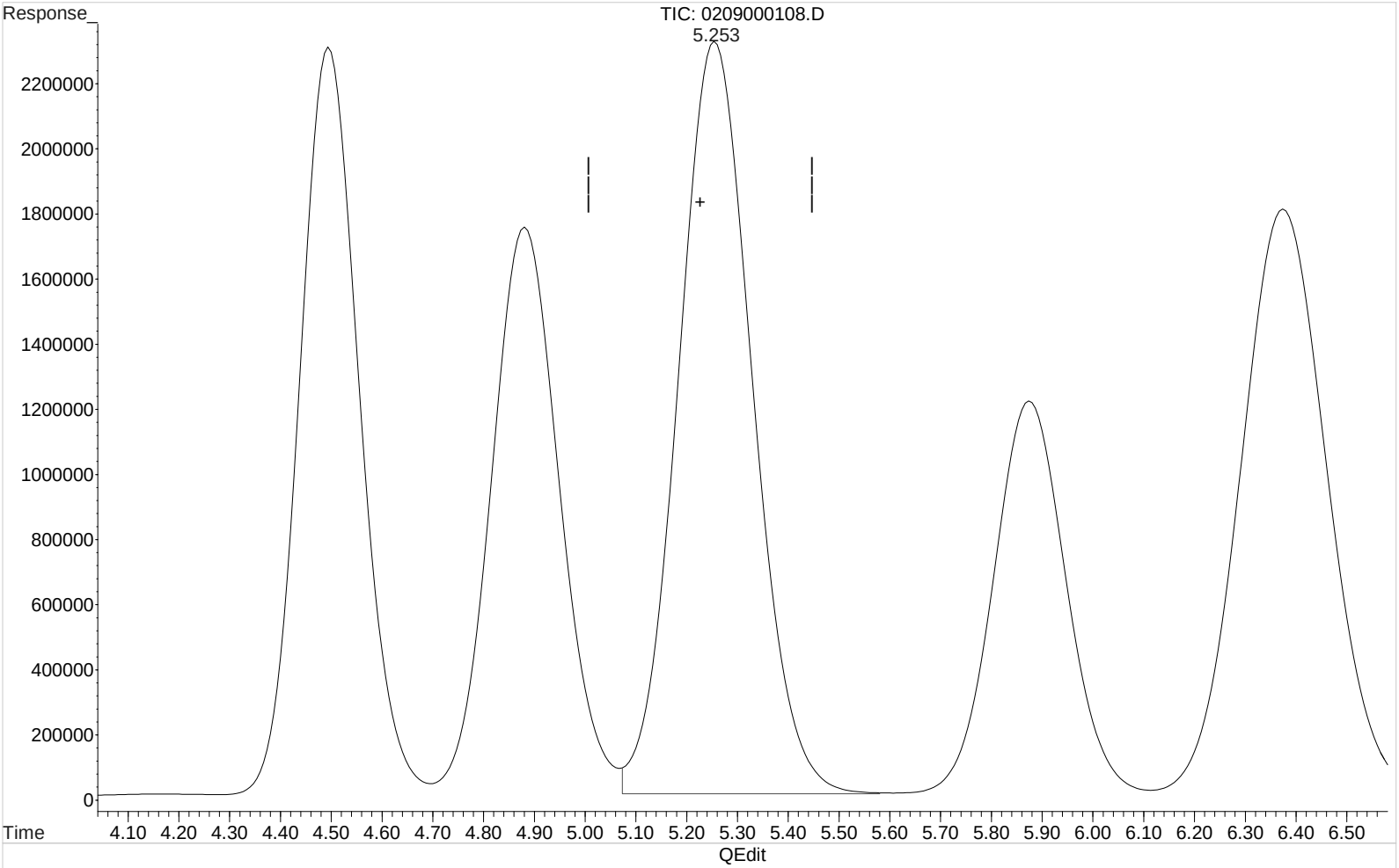
(+) = Expected Retention Time

1st (b) (6) 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(4) 3,5-Dinitroaniline (T)

5.253min 511.057 ug/L m

response 23535159

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

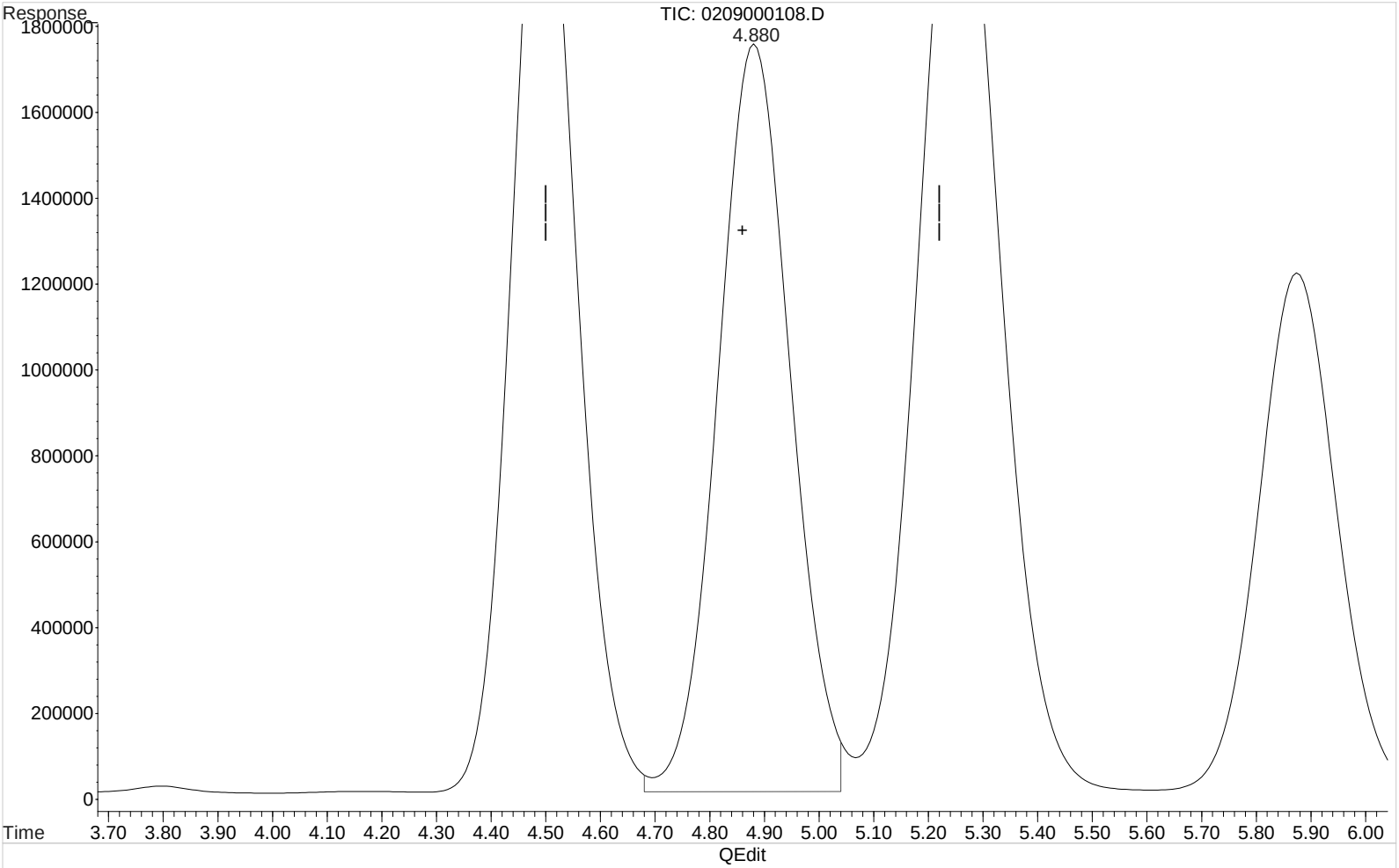
Quantitation Report (Qedit)

(b) (6)
1st [redacted] 2/13/17
2nd [redacted] 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(5) 4-Amino-2,6-DNT (T)

4.880min 512.609 ug/L

response 16100487

Manual Integration:

Before

02/13/17

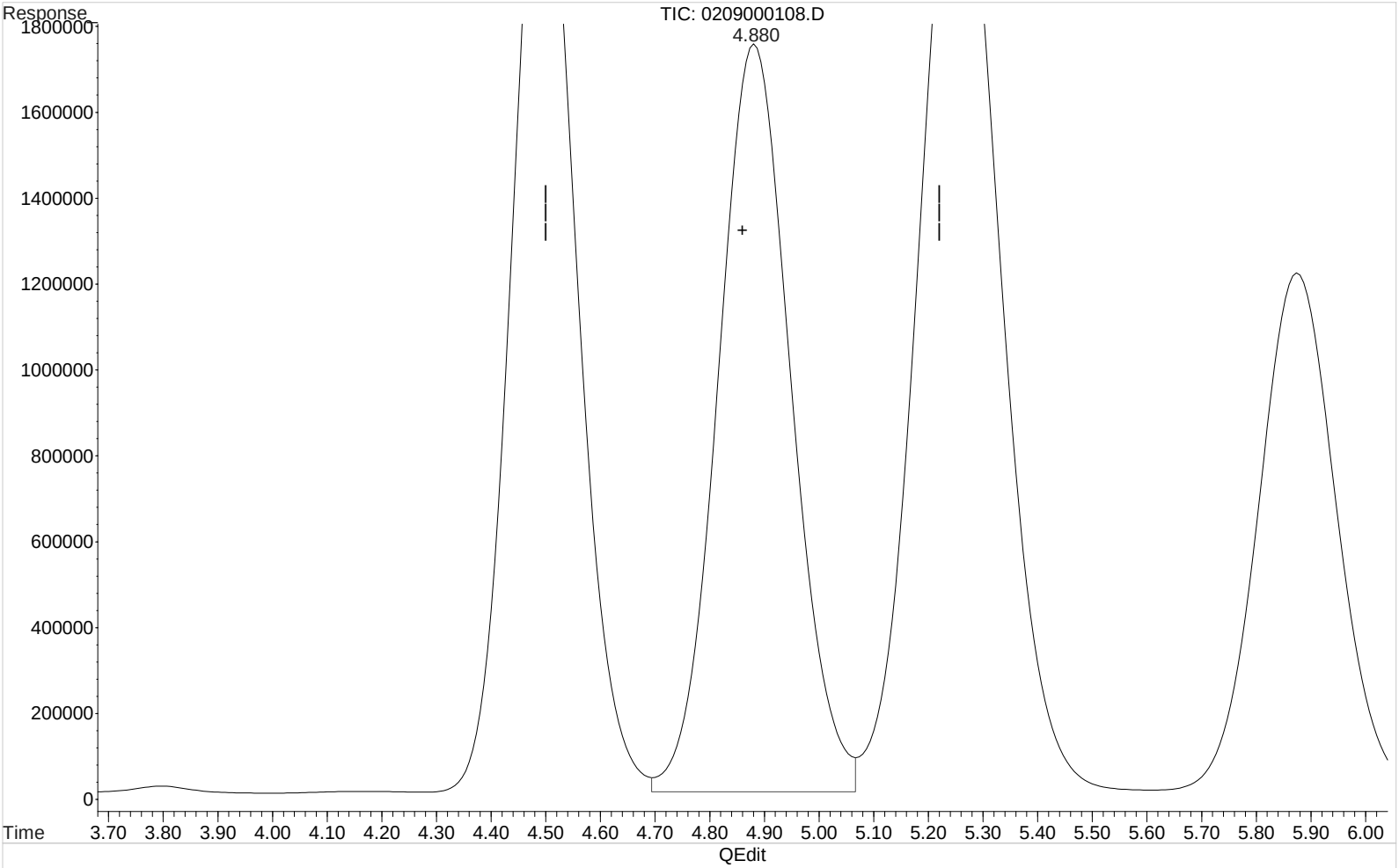
(+) = Expected Retention Time

(b) (6)
1st 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(5) 4-Amino-2,6-DNT (T)

4.880min 516.408 ug/L m

response 16219825

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

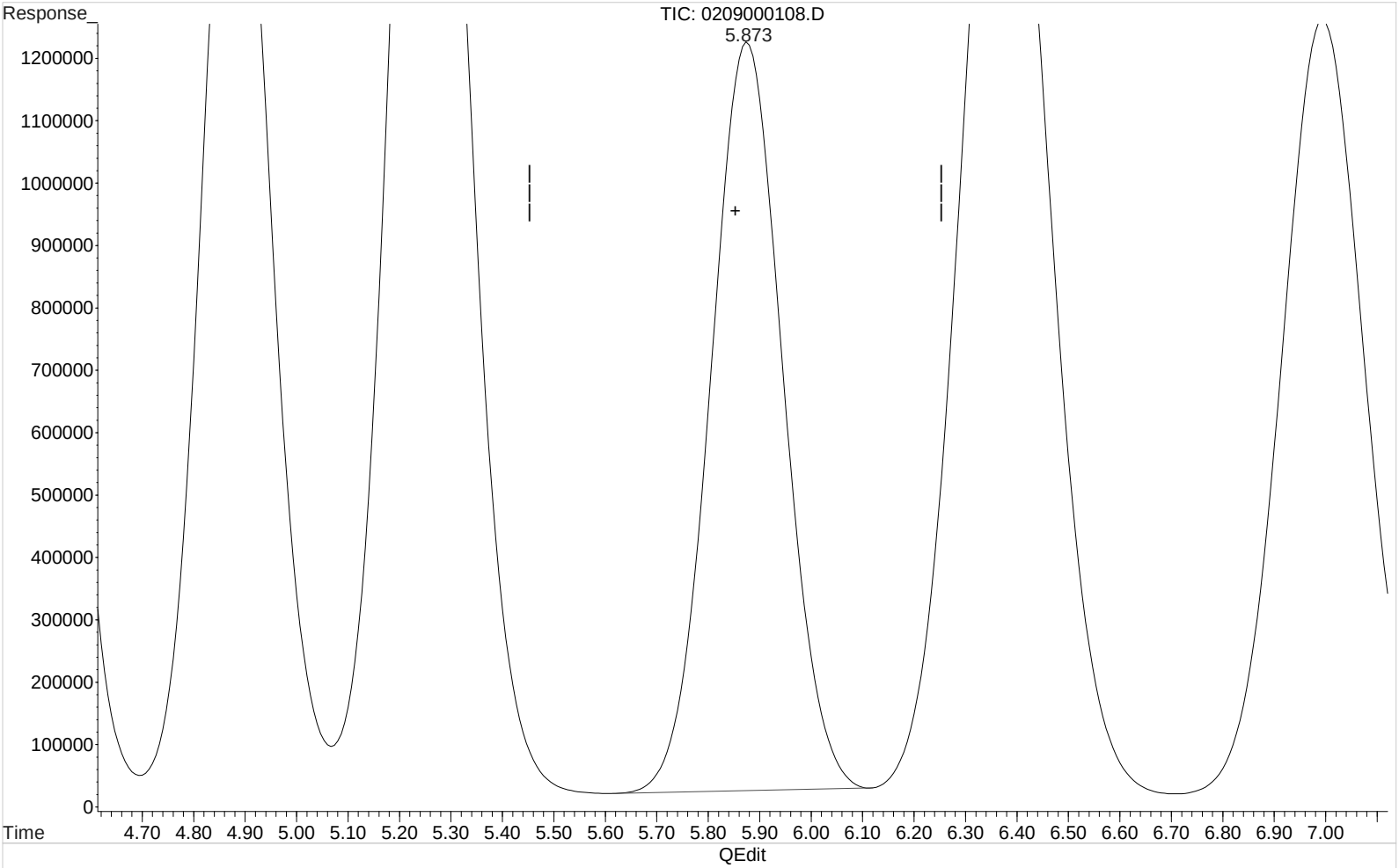
Quantitation Report (Qedit)

(b) (6)
1st 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.873min 500.725 ug/L

response 11777330

Manual Integration:

Before

02/13/17

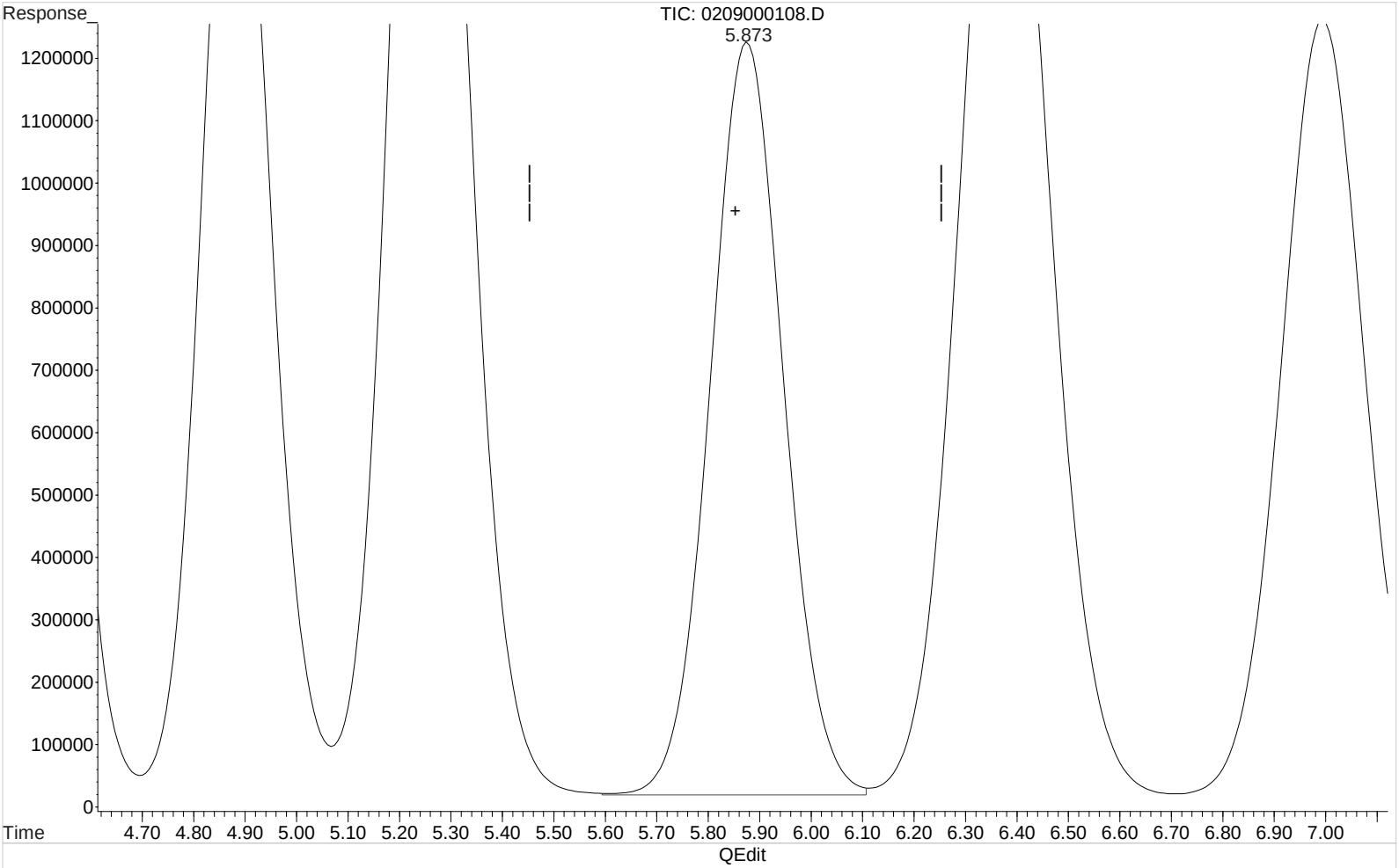
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.873min 509.102 ug/L m

response 11974356

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

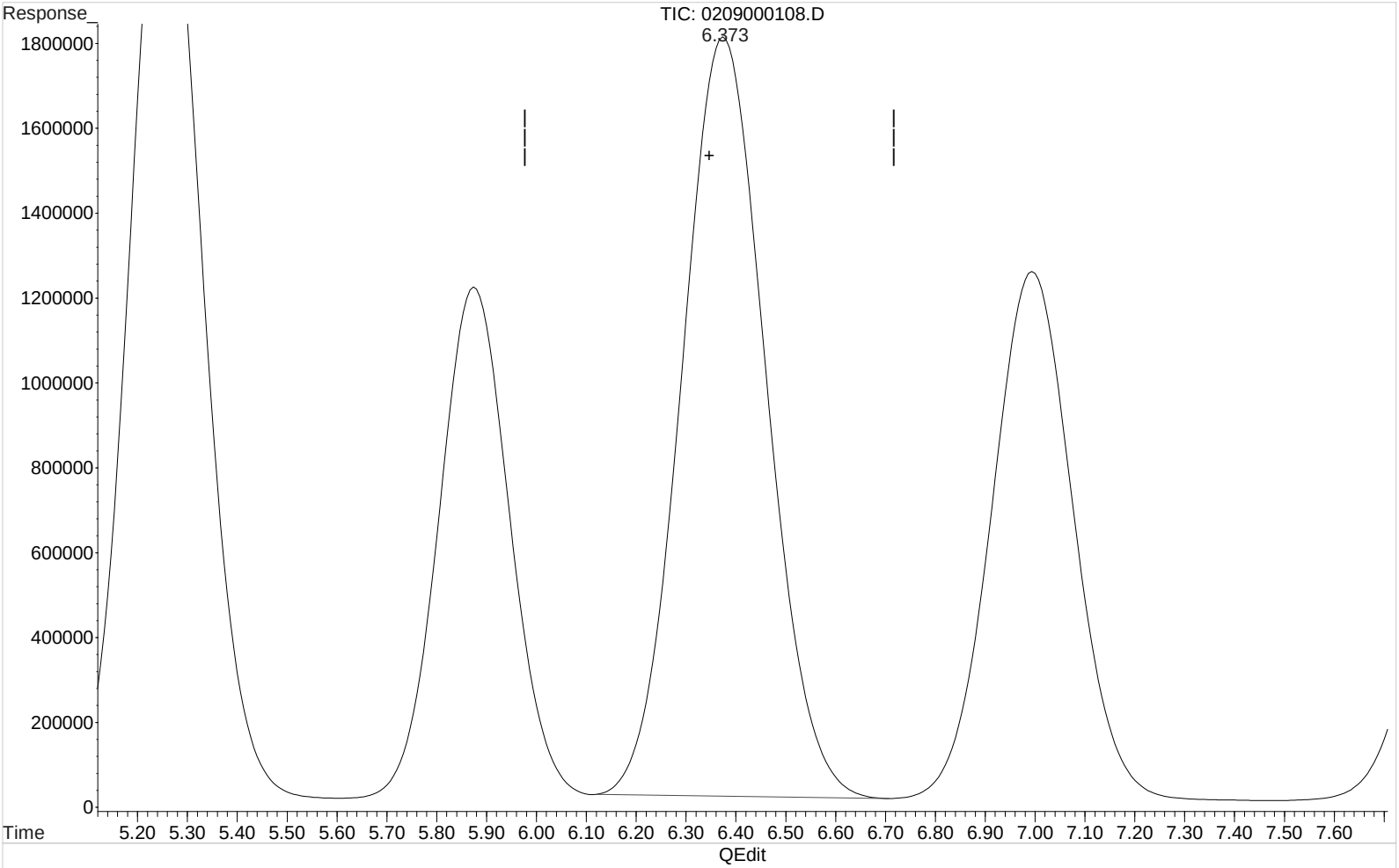
Quantitation Report (Qedit)

(b) (6)
1st 02/13/17
2n 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.373min 508.092 ug/L

response 21097350

Manual Integration:

Before

02/13/17

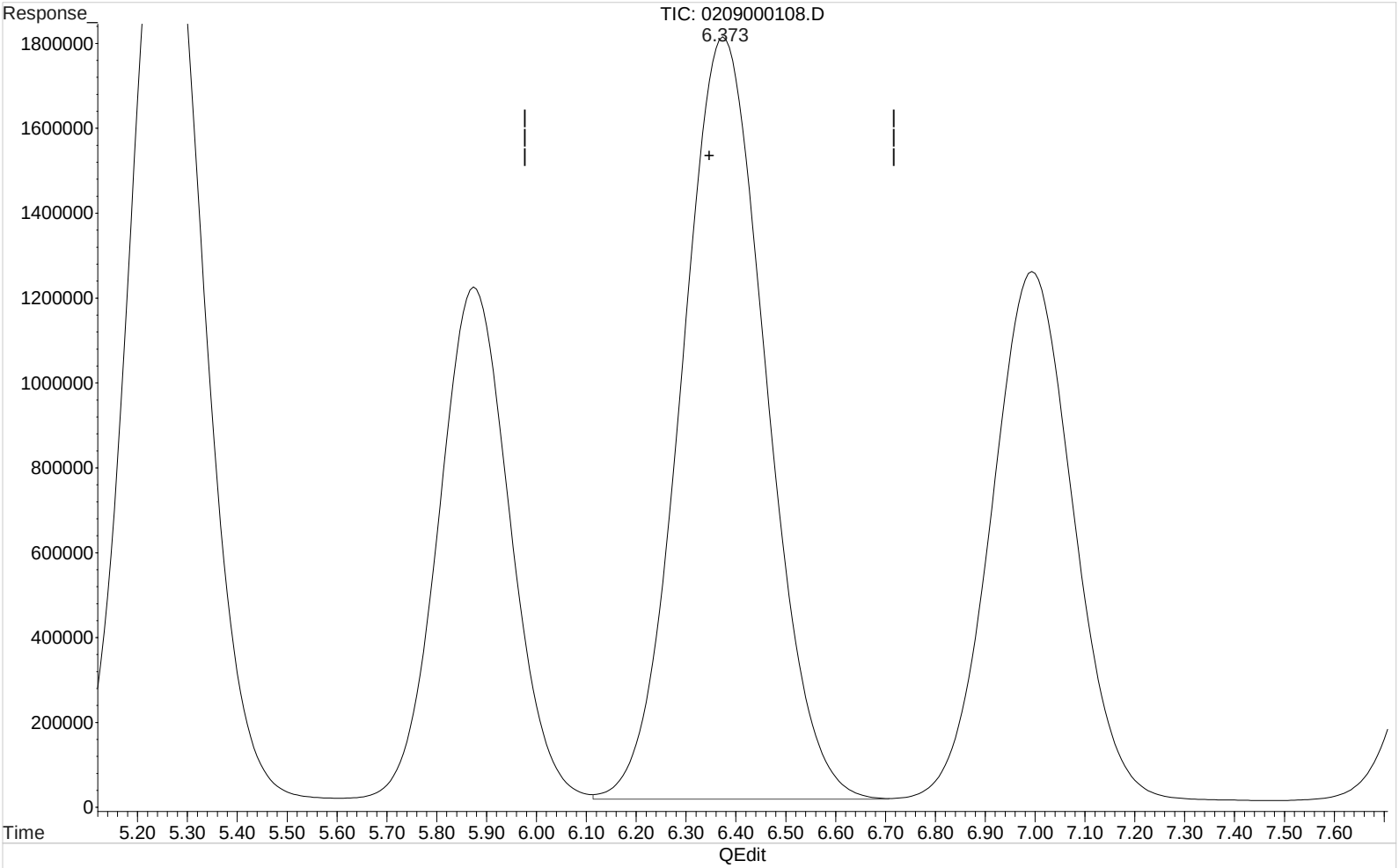
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.373min 513.240 ug/L m

response 21311094

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:53:53 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
11)	S	1-Chloro-3-Nitrobenzene	8.140	26673138	1017.135	ug/L	
		Target Compounds					
1)	T	HMX	2.560	15754141	1011.865	ug/L	m
2)	T	RDX	2.807	18282213	1034.253	ug/L	
3)	T	Nitrobenzene	4.487	37153839	1009.140	ug/L	m
4)	T	3,5-Dinitroaniline	5.247	46792847	1020.192	ug/L	
5)	T	4-Amino-2,6-DNT	4.873	32003465	1023.774	ug/L	
6)	T	2-NT	5.867	23562112	1002.211	ug/L	m
7)	T	2-Amino-4,6-DNT	6.360	42381135	1025.978	ug/L	m
8)	T	3-NT	6.987	27875884	1007.514	ug/L	
9)	T	1,3-DNB	9.133	55586286	1014.562	ug/L	
10)	T	4-NT	7.847	22827299	1009.477	ug/L	
12)	T	2,6-DNT	8.820	24988433	1030.126	ug/L	
13)	T	2,4-DNT	14.813	51254762	1019.136	ug/L	
14)	T	Tetryl	13.000	28722923	978.901	ug/L	
15)	T	1,3,5-TNB	19.813	41471658	1017.646	ug/L	
16)	T	2,4,6-TNT	20.800	39028968	1018.142	ug/L	

(f)=RT Delta > 1/2 Window (m)=manual int.

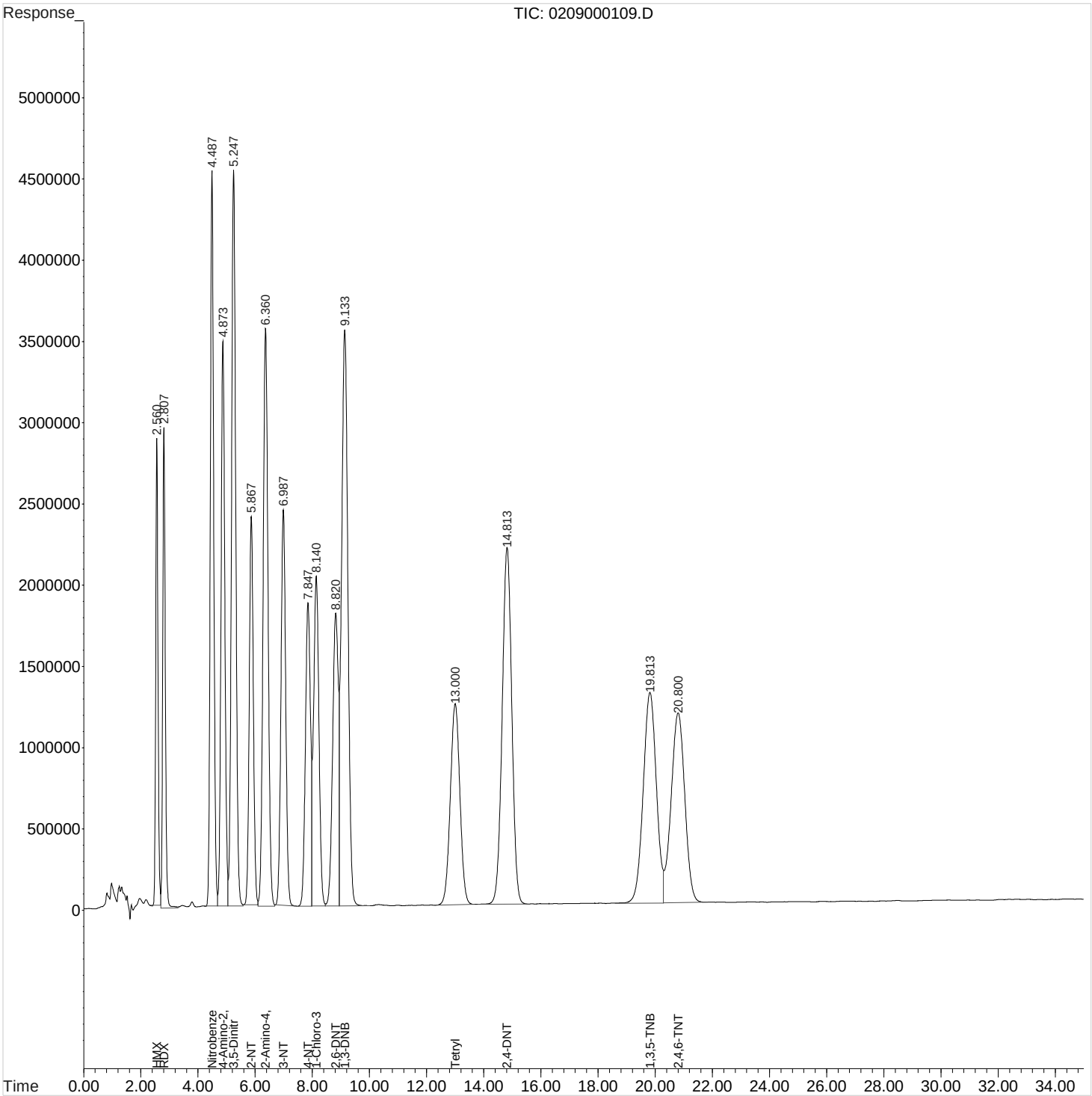
Quantitation Report (QT Reviewed)

1st (b)(6) 02/13/17
2n 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:53:53 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



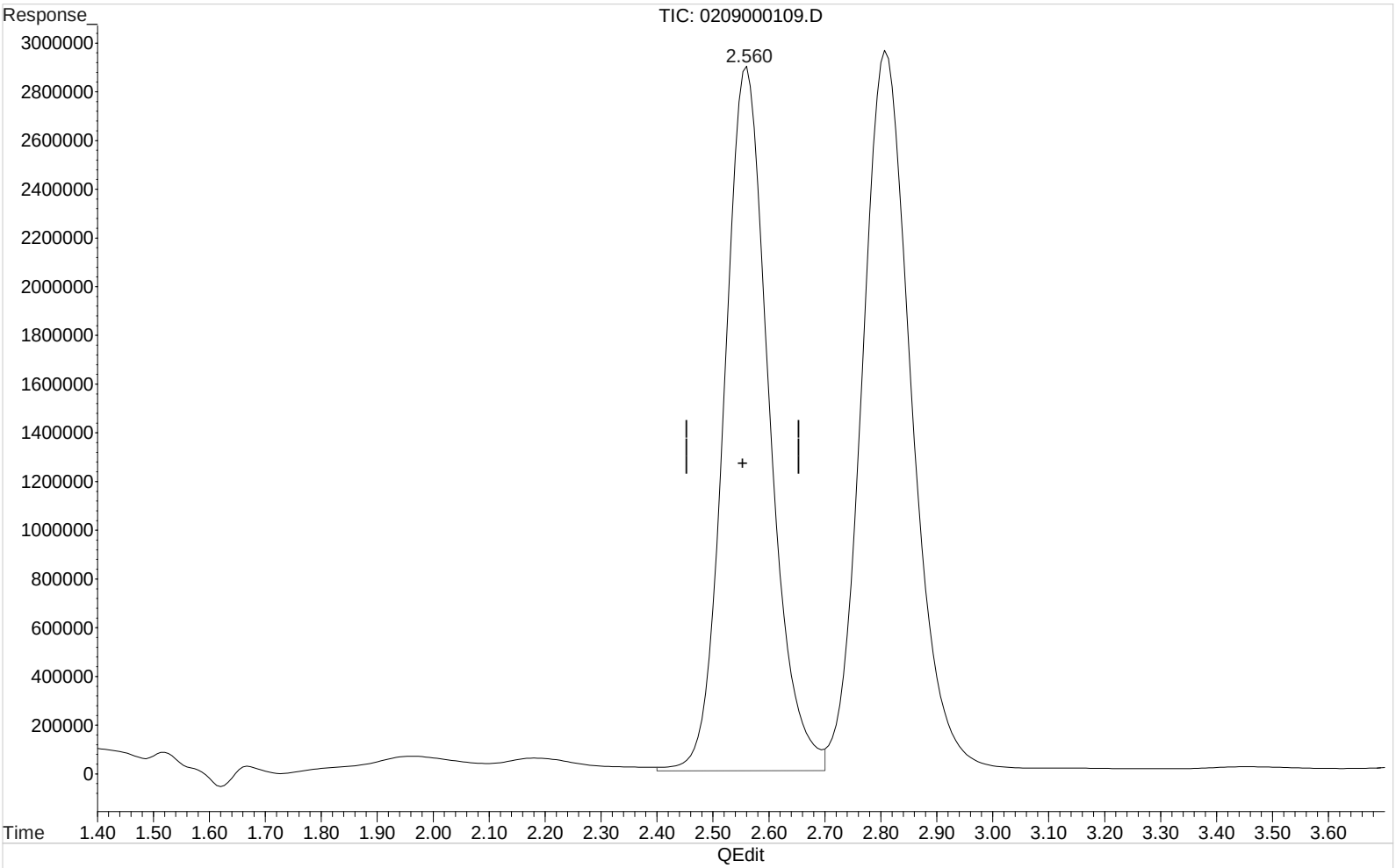
Quantitation Report (Qedit)

(b) (6)
1st 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:45:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.560min 1035.968 ug/L

response 16129417

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

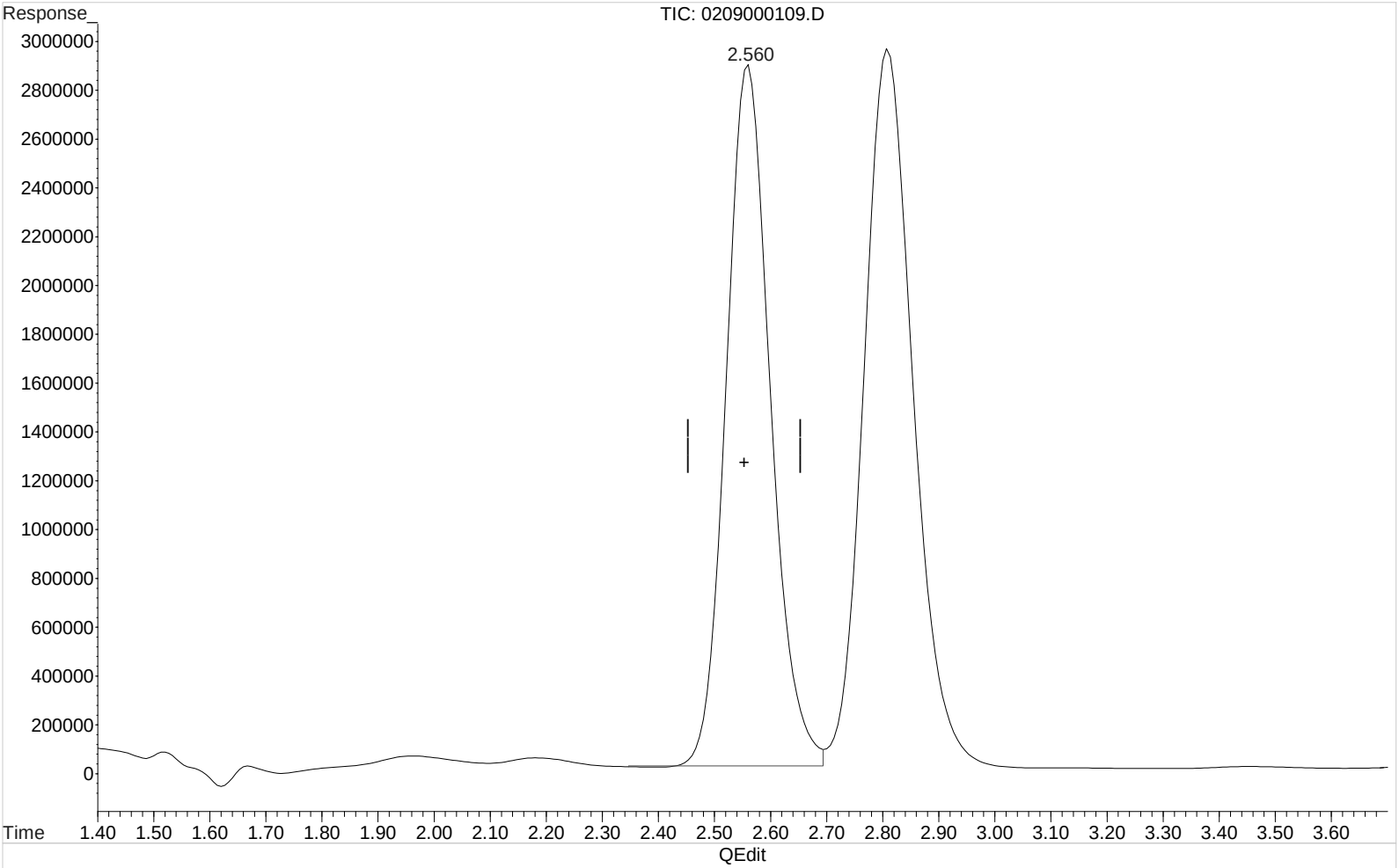
Quantitation Report (Qedit)

(b)(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:45:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(1) HMX (T)

2.560min 1011.865 ug/L m

response 15754141

Manual Integration:

After

BLC

02/13/17

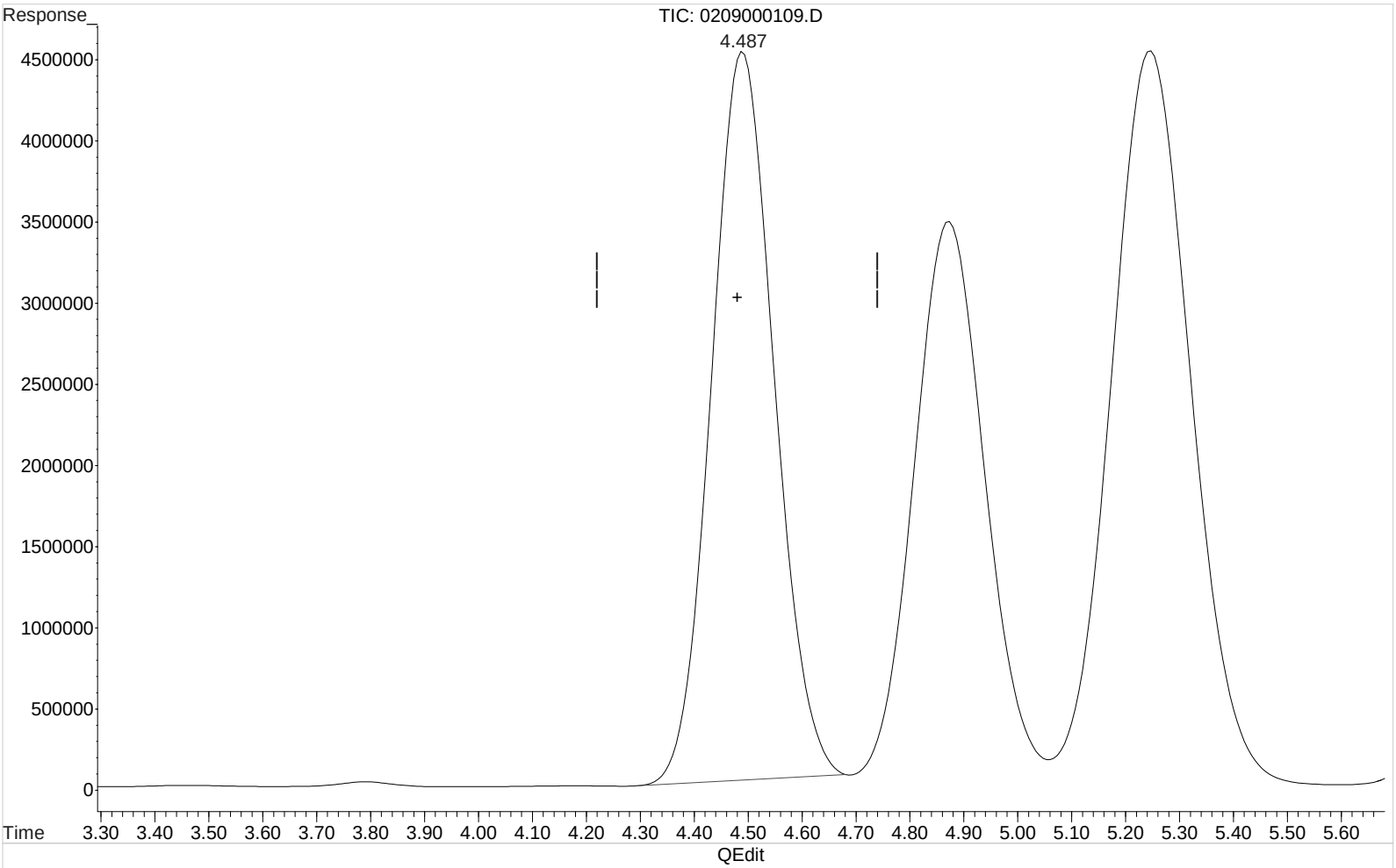
(+) = Expected Retention Time

(b) (6)
1st /13/17
2nd /17/17

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:45:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 987.330 ug/L

response 36350884

Manual Integration:

Before

02/13/17

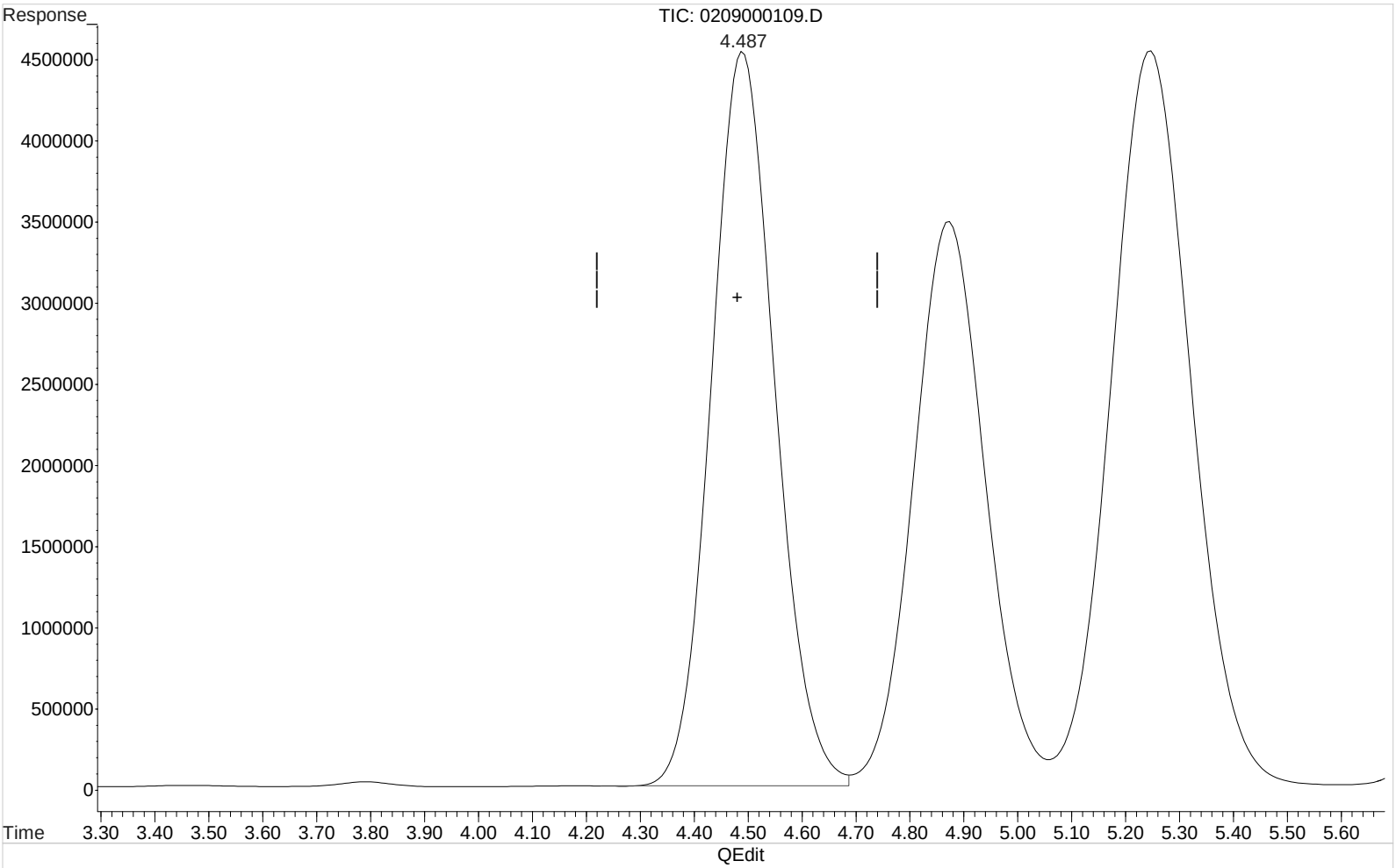
(+) = Expected Retention Time

1st (b) (6) 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:45:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 1009.140 ug/L m

response 37153839

Manual Integration:

After

BLC

02/13/17

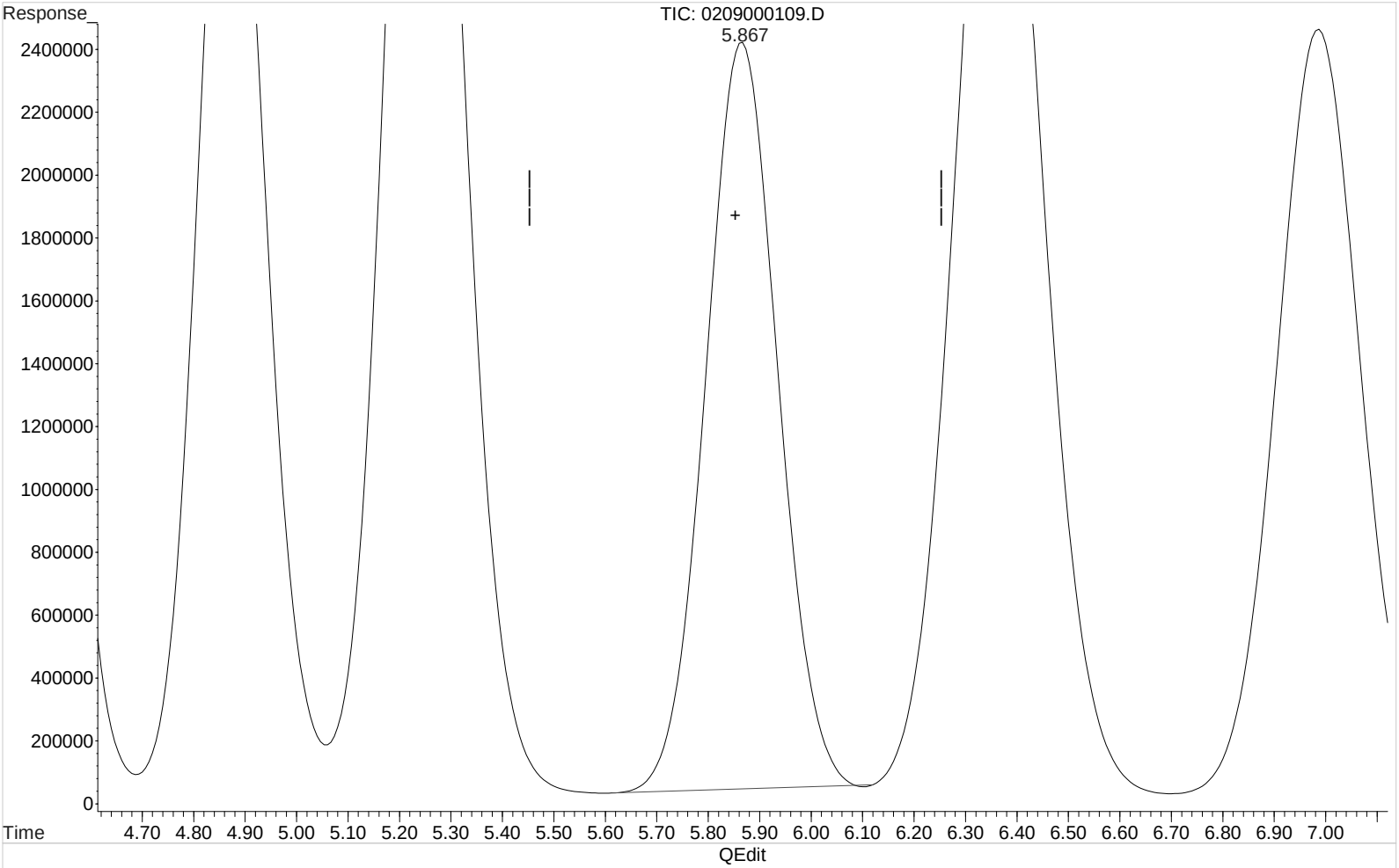
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:45:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.867min 987.309 ug/L

response 23211771

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

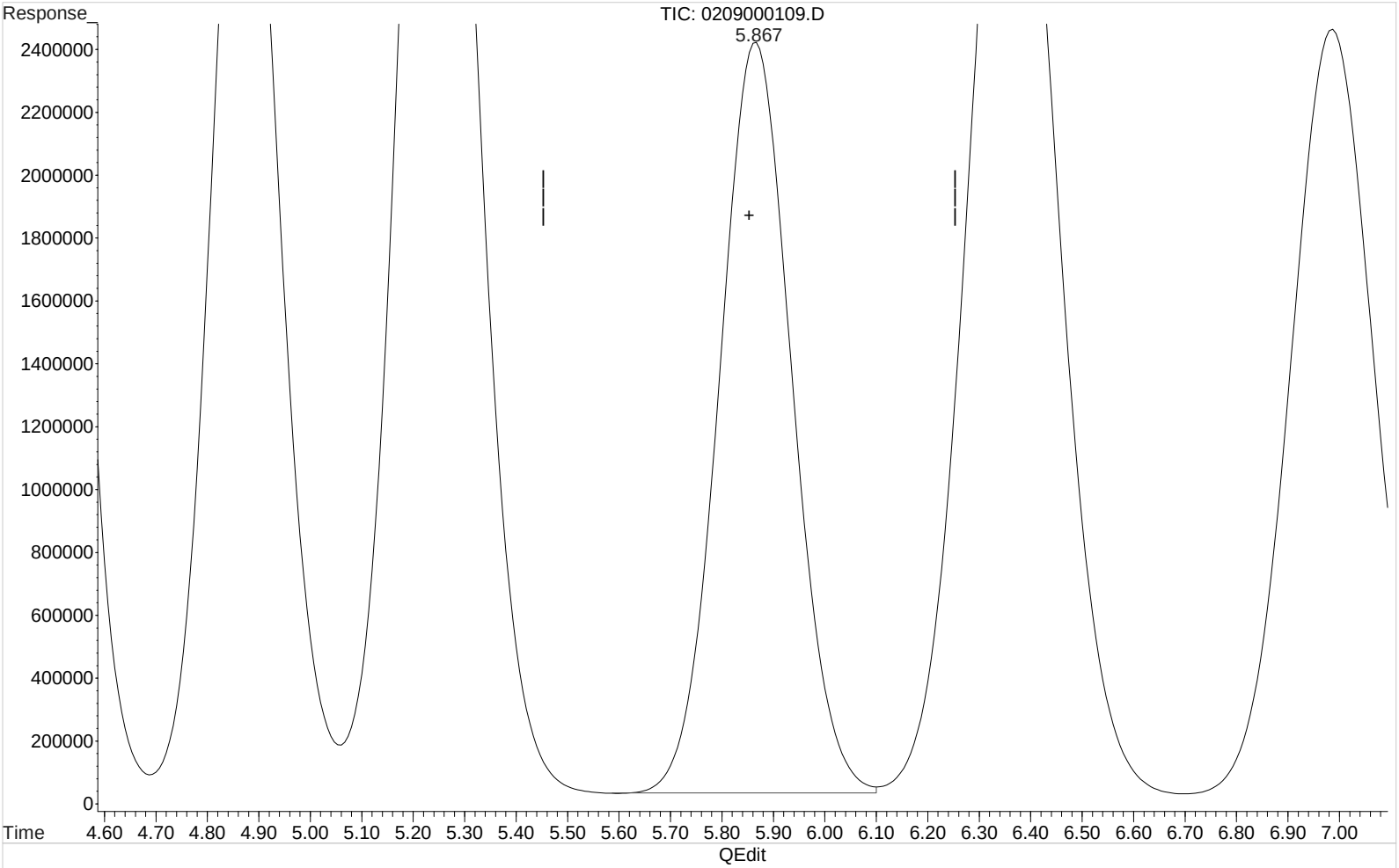
Quantitation Report (Qedit)

(b) (6)
1st [redacted] 02/13/17
2nd [redacted] 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:53:53 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.867min 1002.211 ug/L m

response 23562112

Manual Integration:

After

BLC

02/13/17

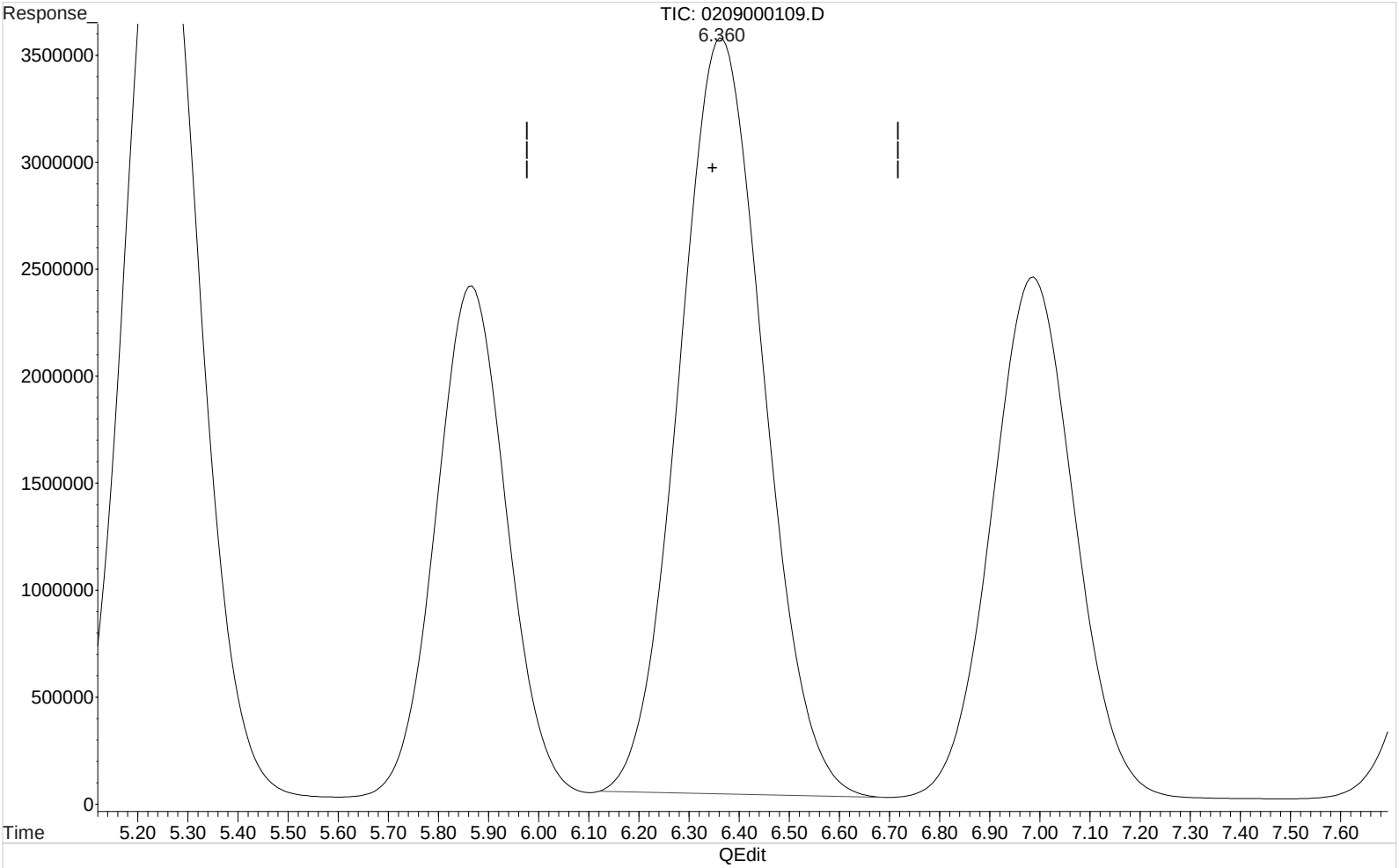
(+) = Expected Retention Time

(b) (6)
1st 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:45:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(7) 2-Amino-4,6-DNT (T)

6.360min 1006.729 ug/L

response 41585985

Manual Integration:

Before

02/13/17

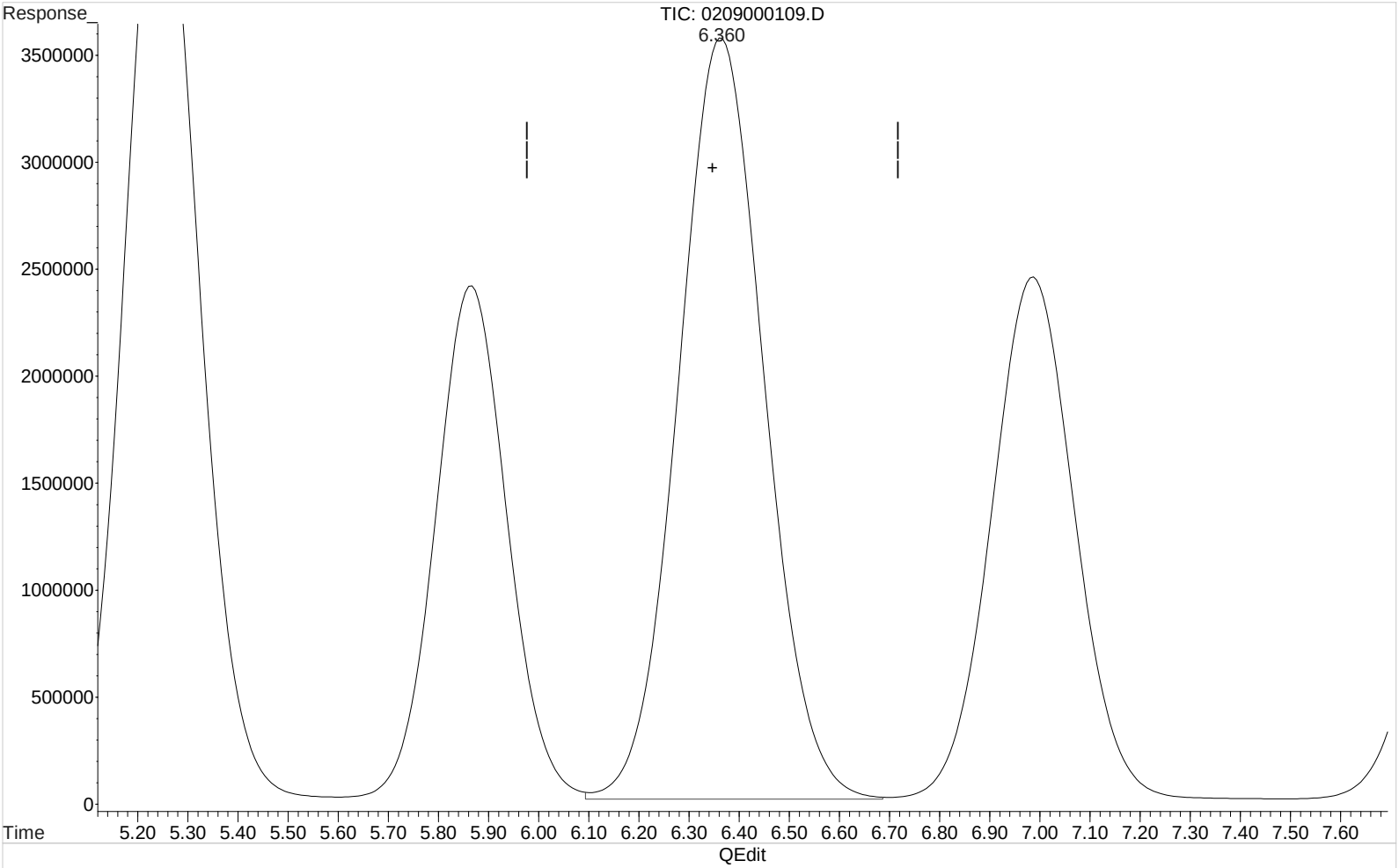
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:45:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(7) 2-Amino-4,6-DNT (T)

6.360min 1025.978 ug/L m

response 42381135

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:32:55 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds							
11)	S	1-Chloro-3-Nitrobenzene	8.140	53161422	2036.459	ug/L	
Target Compounds							
1)	T	HMX	2.553	31311485	2014.814	ug/L	m
2)	T	RDX	2.800	35554384	2015.185	ug/L	
3)	T	Nitrobenzene	4.487	73843312	2007.562	ug/L	m
4)	T	3,5-Dinitroaniline	5.247	92210324	2013.888	ug/L	
5)	T	4-Amino-2,6-DNT	4.873	62907414	2016.533	ug/L	
6)	T	2-NT	5.867	46778486	1986.311	ug/L	m
7)	T	2-Amino-4,6-DNT	6.367	83175566	2018.100	ug/L	m
8)	T	3-NT	6.987	55760509	2020.510	ug/L	m
9)	T	1,3-DNB	9.133	109641297	2001.567	ug/L	
10)	T	4-NT	7.853	45953635	2043.136	ug/L	m
12)	T	2,6-DNT	8.820	49007058	2027.122	ug/L	
13)	T	2,4-DNT	14.807	100936143	2009.326	ug/L	
14)	T	Tetryl	12.993	55778584	1870.117	ug/L	
15)	T	1,3,5-TNB	19.800	81579082	2002.423	ug/L	
16)	T	2,4,6-TNT	20.787	76817979	2005.253	ug/L	

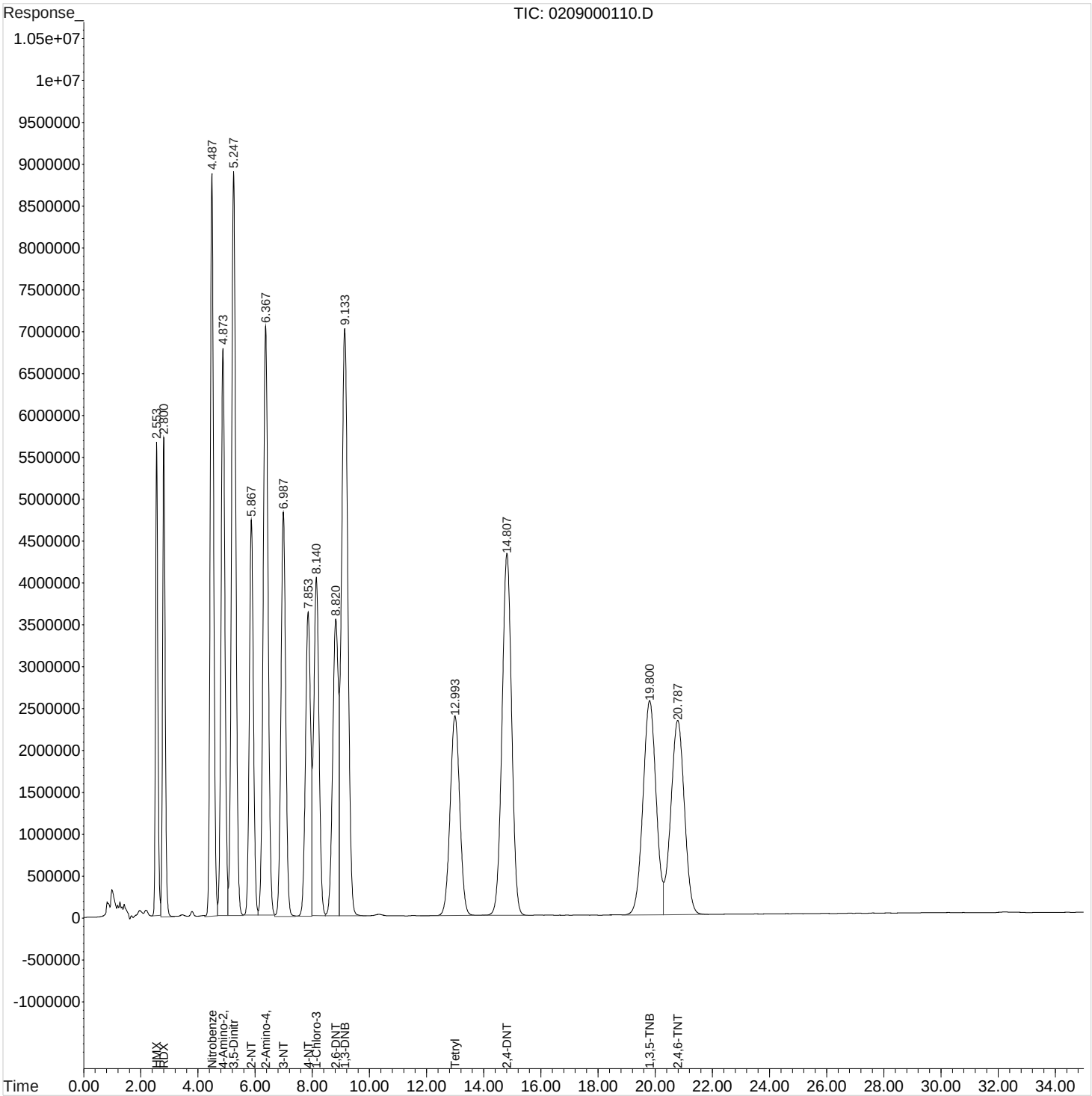
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:32:55 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

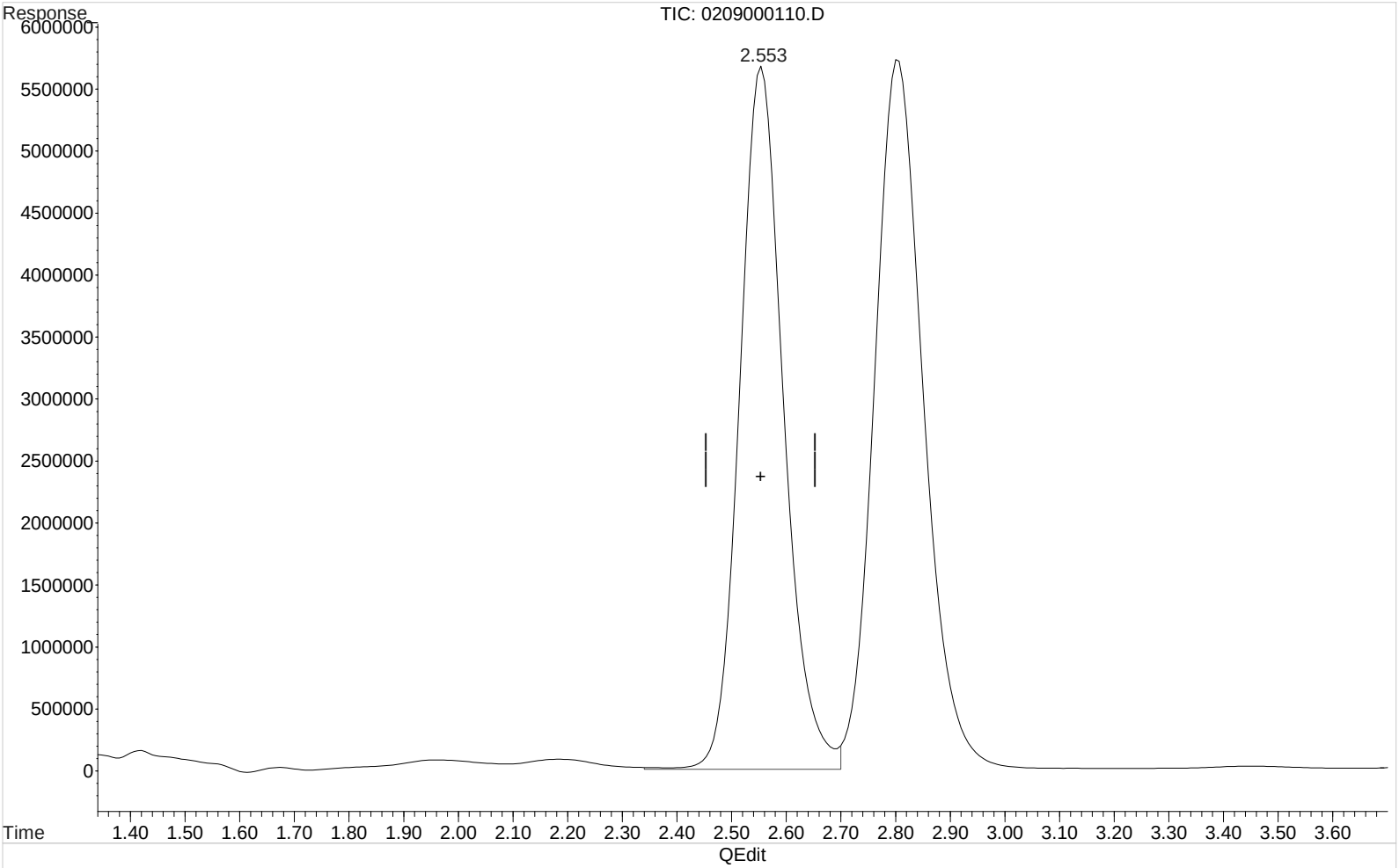


(b) (6)
1st 2/13/17
2n 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.553min 2039.049 ug/L

response 31688113

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

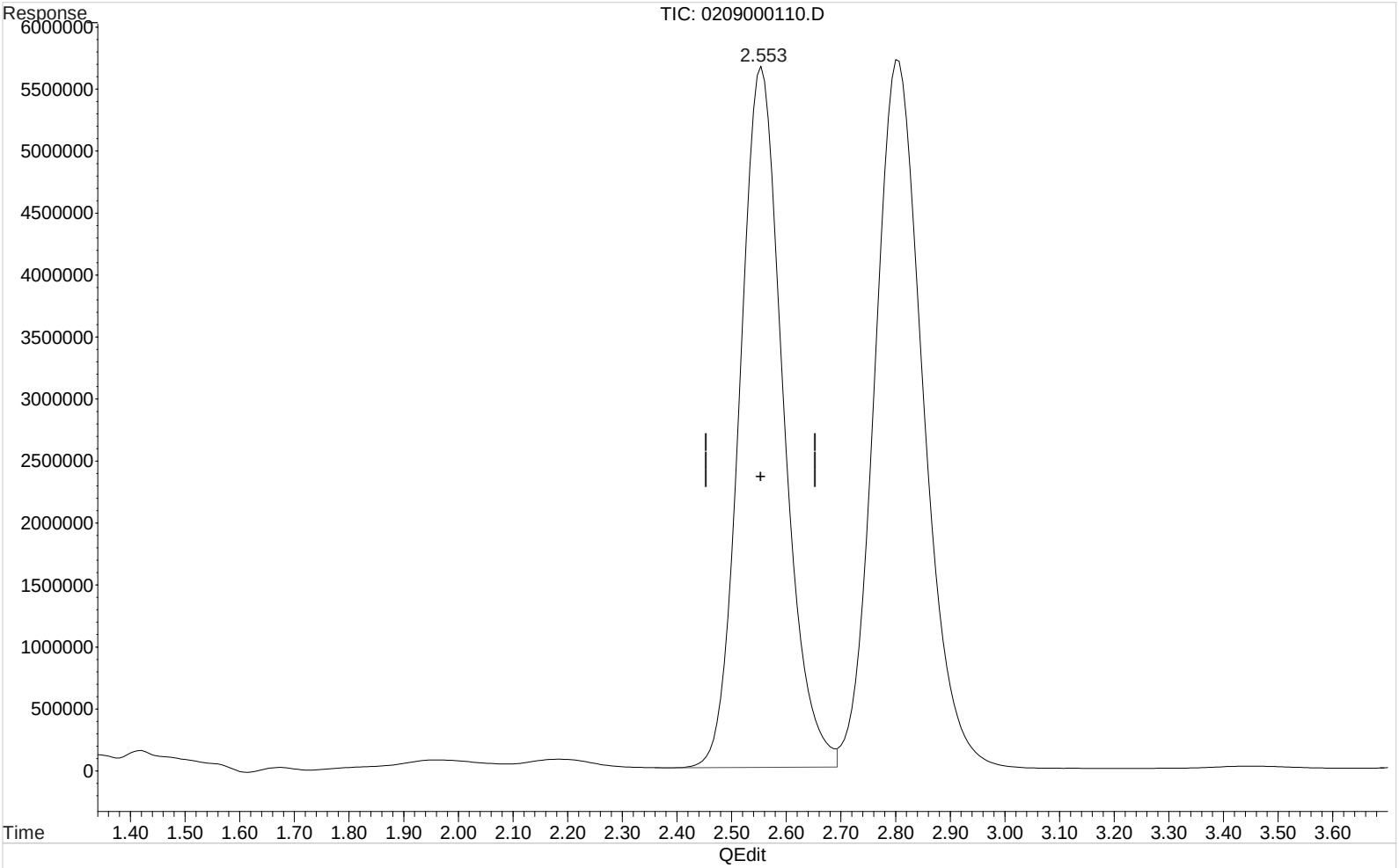
1st 2/13/17

2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(1) HMX (T)

2.553min 2014.814 ug/L m

response 31311485

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

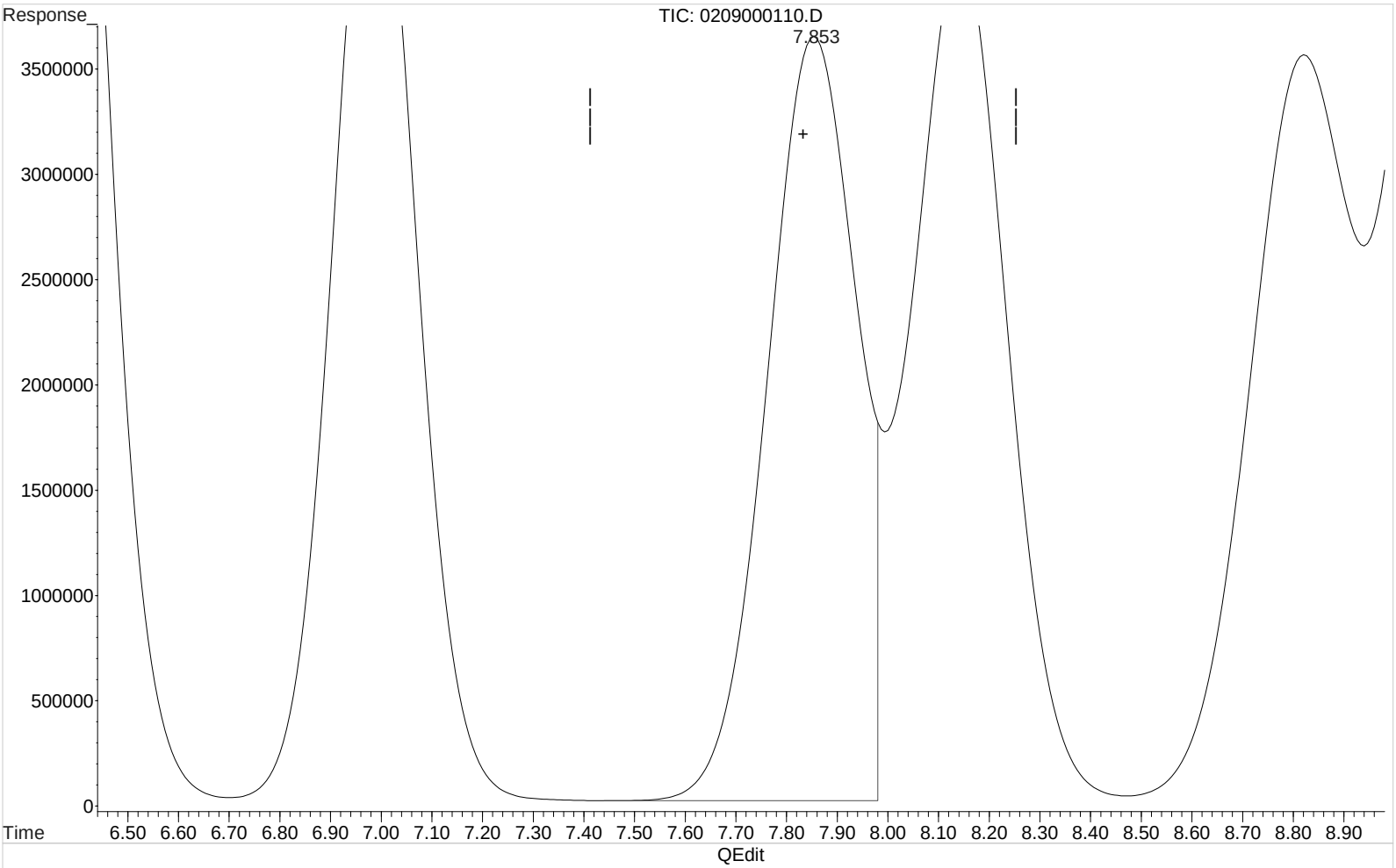
Quantitation Report (Qedit)

(b) (6)
1st [redacted] 02/13/17
2nd [redacted] 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.853min 1977.033 ug/L

response 44466866

Manual Integration:

Before

02/13/17

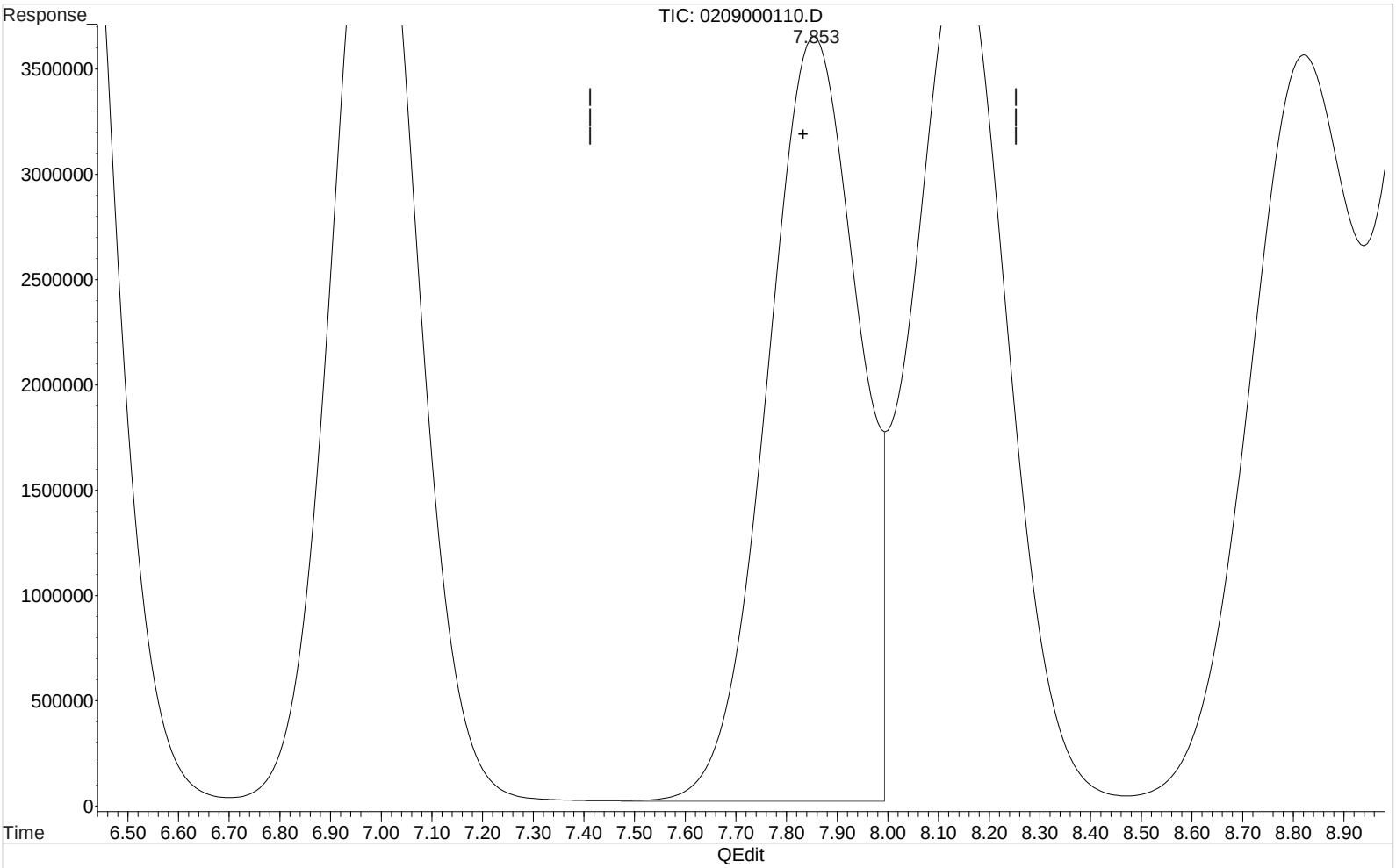
(+) = Expected Retention Time

(b)(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.853min 2043.136 ug/L m

response 45953635

Manual Integration:

After

BLC

02/13/17

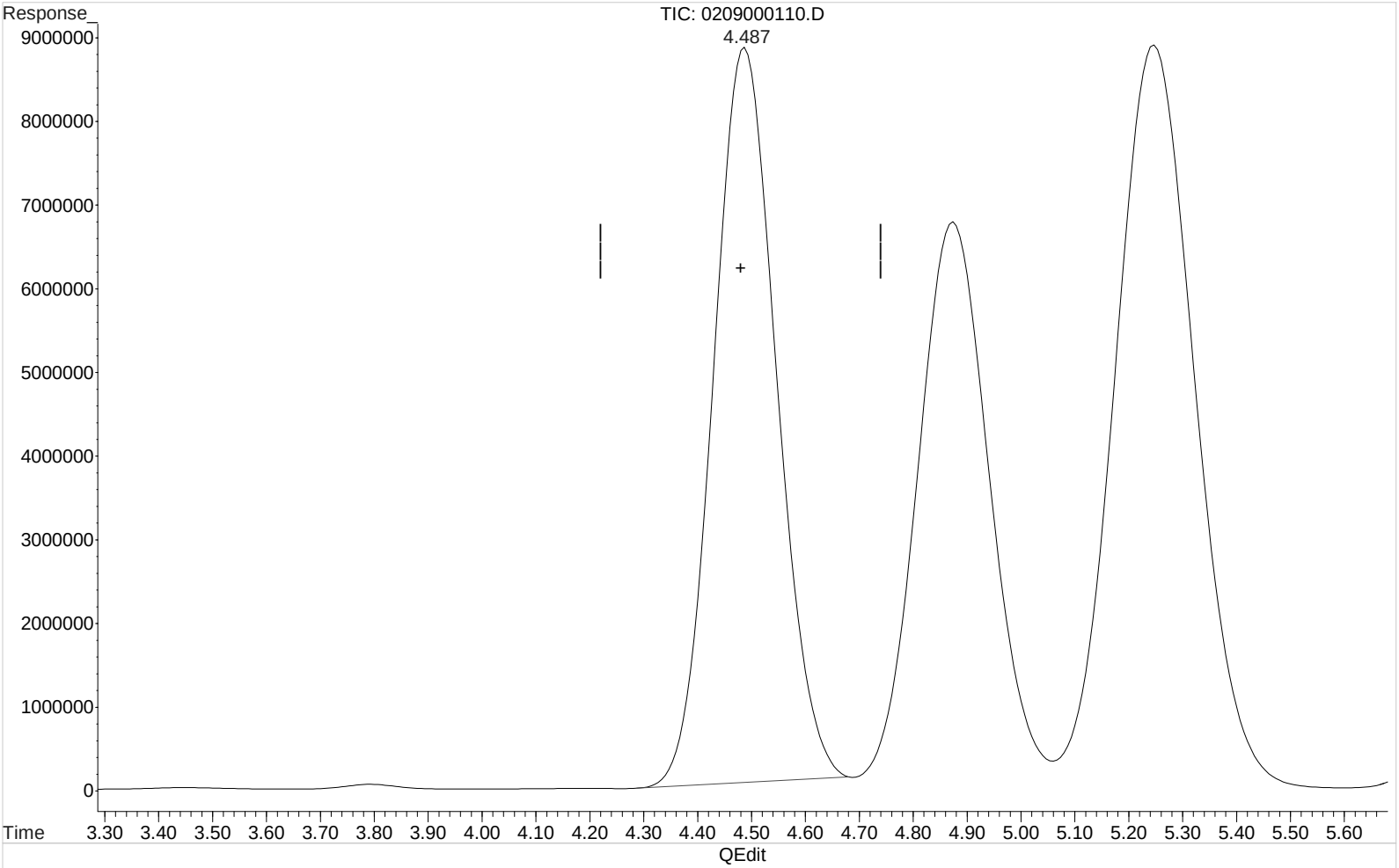
(+) = Expected Retention Time

(b)(6) 1st 02/13/17 2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 1955.136 ug/L

response 71914932

Manual Integration:

Before

02/13/17

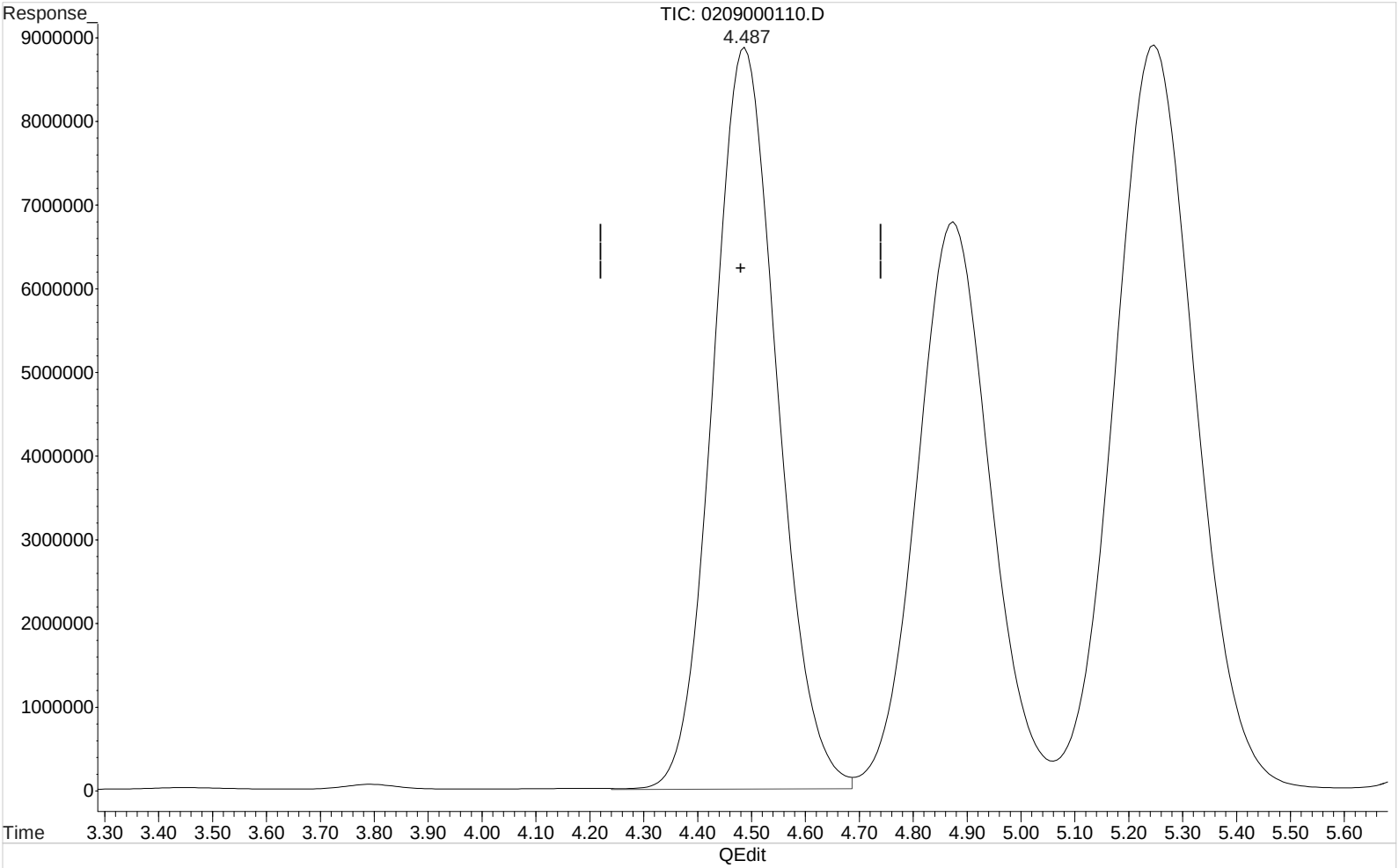
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 2007.562 ug/L m

response 73843312

Manual Integration:

After

BLC

02/13/17

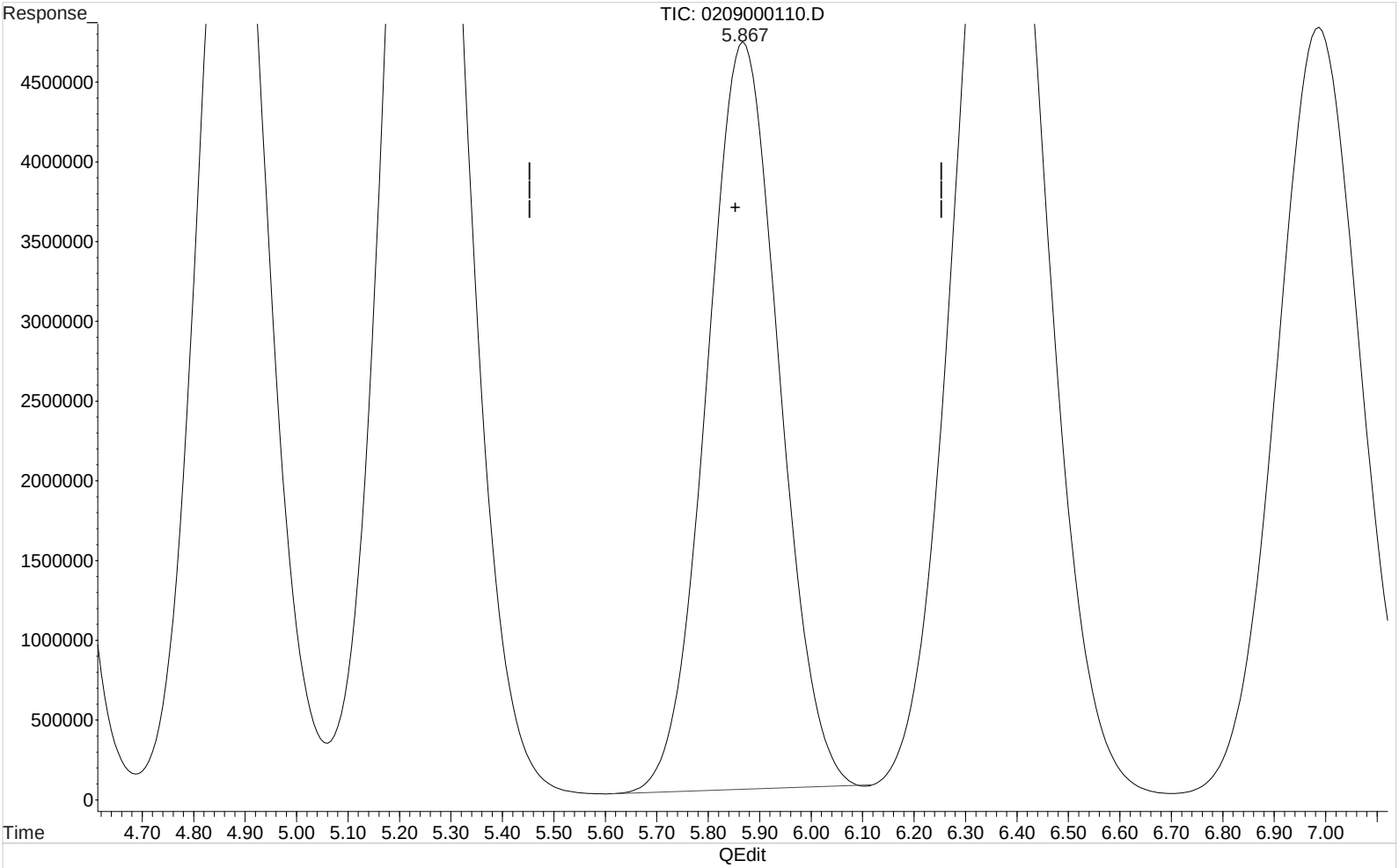
(+) = Expected Retention Time

(b)
(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.867min 1951.261 ug/L

response 45953051

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

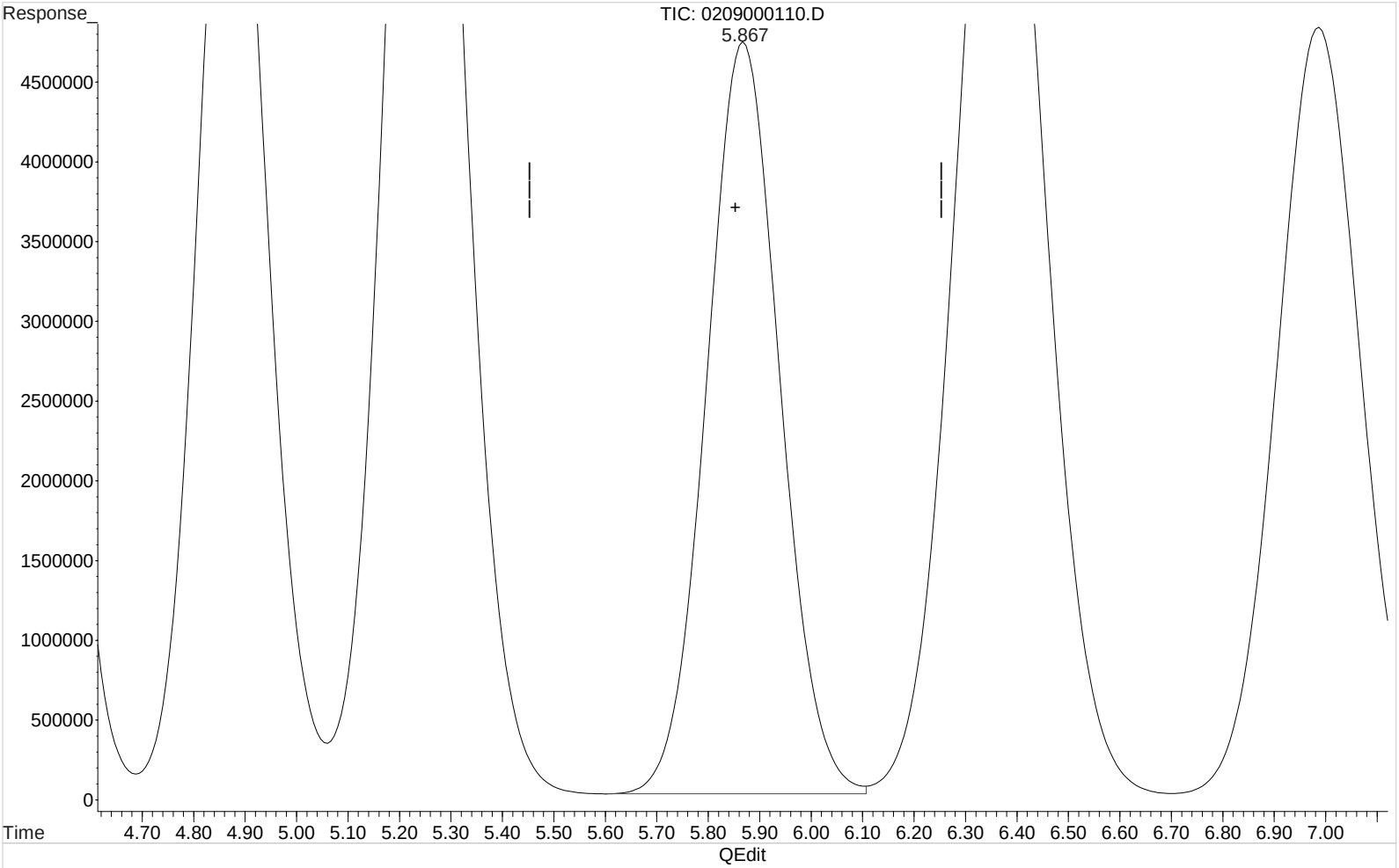
Quantitation Report (Qedit)

(b)
(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.867min 1986.311 ug/L m

response 46778486

Manual Integration:

After

BLC

02/13/17

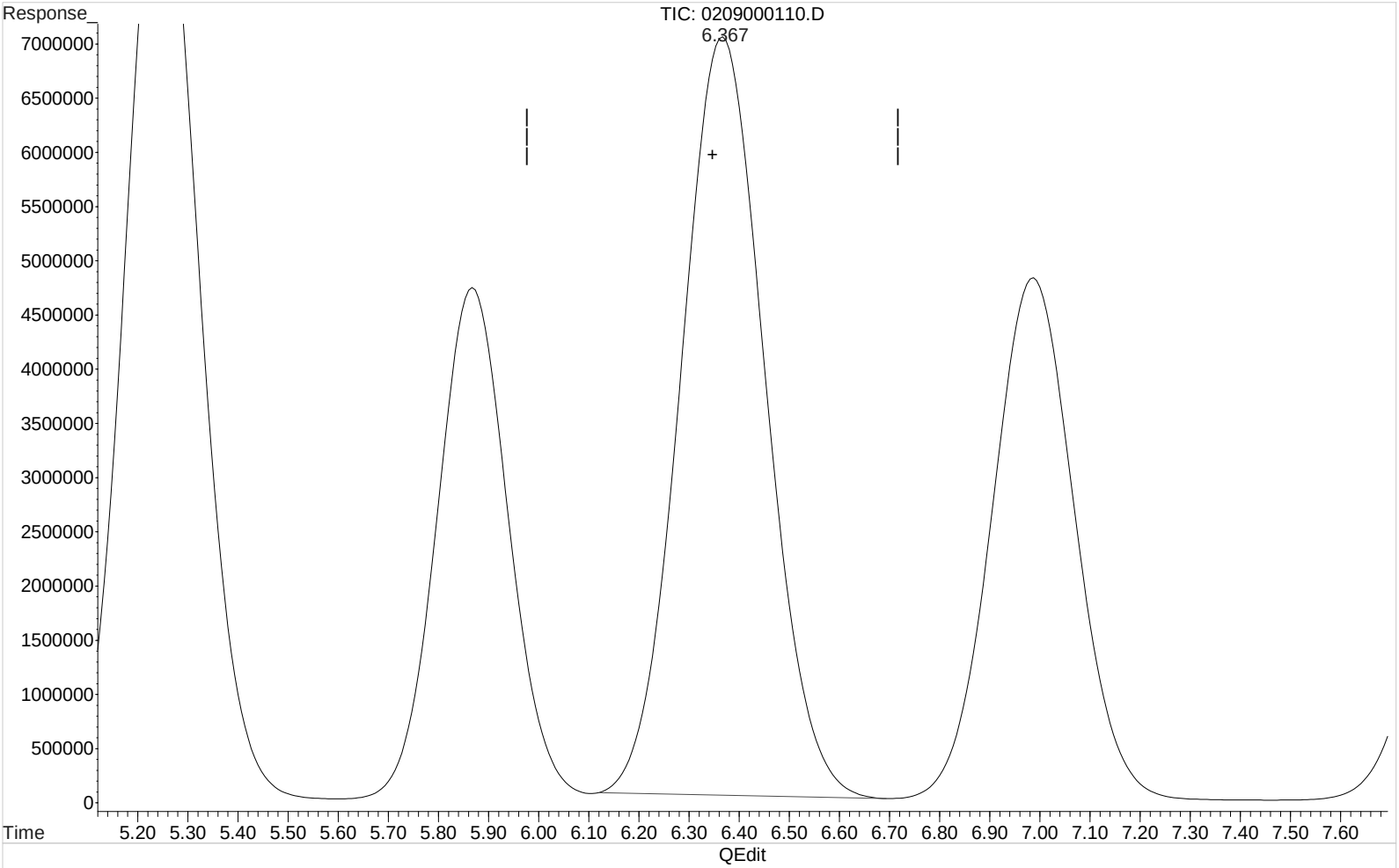
(+) = Expected Retention Time

(b)(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.367min 1990.374 ug/L

response 82032832

Manual Integration:

Before

02/13/17

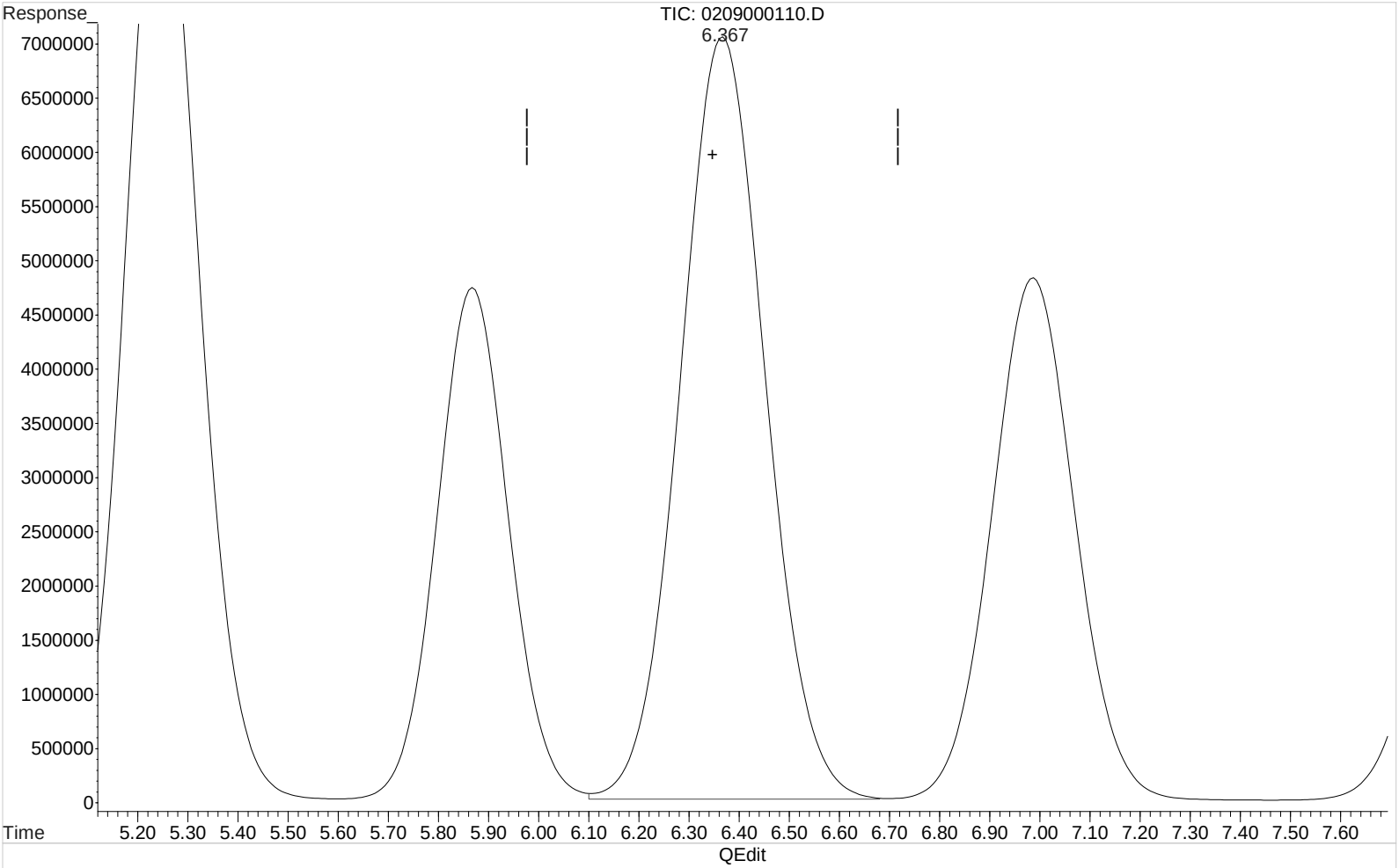
(+) = Expected Retention Time

(b) (6)
1st [redacted] 02/13/17
2nd [redacted] 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.367min 2018.100 ug/L m

response 83175566

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

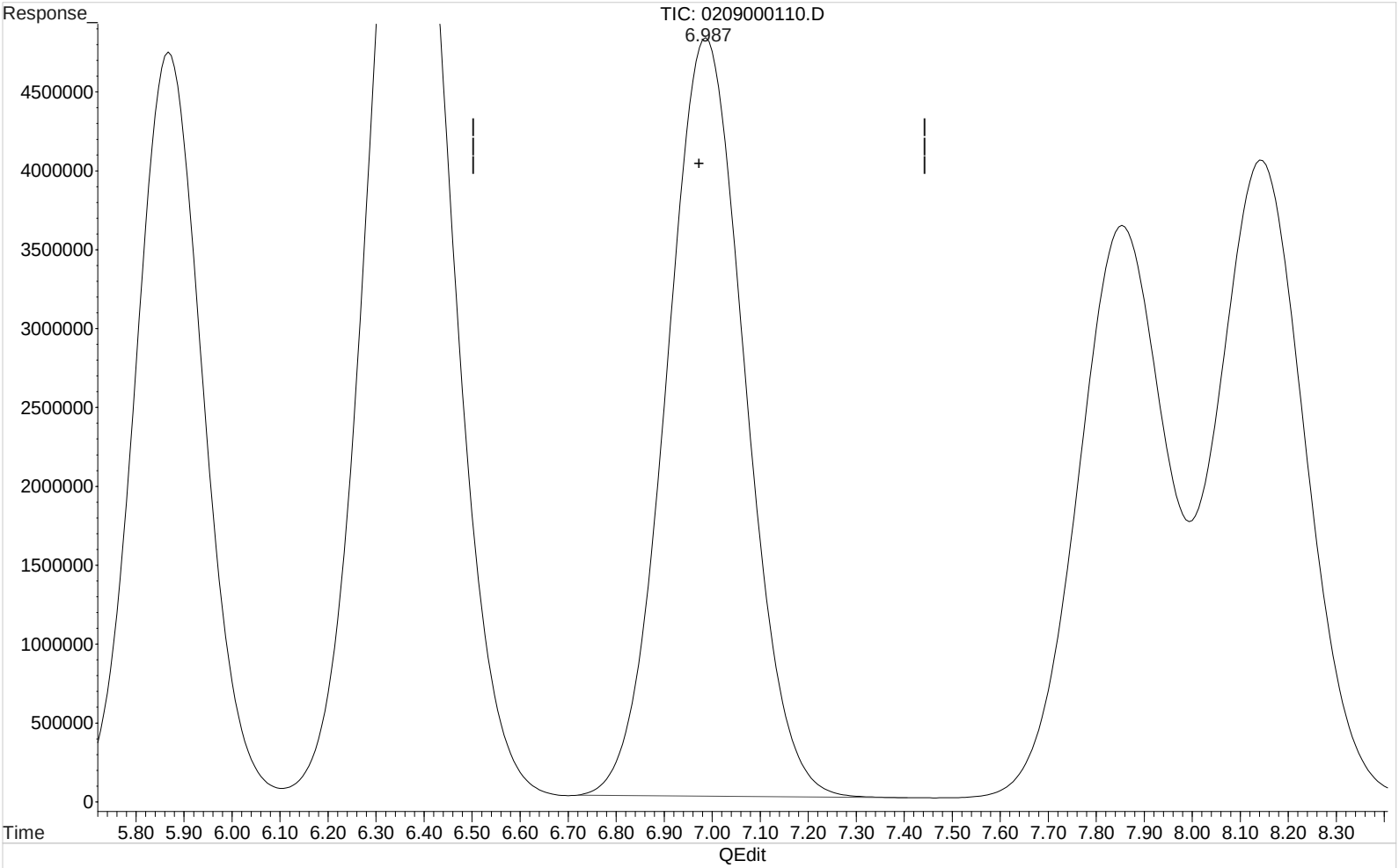
Quantitation Report (Qedit)

1st (b) (6) 02/13/17
2nd [redacted] 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(8) 3-NT (T)

6.987min 1994.277 ug/L

response 55036545

Manual Integration:

Before

02/13/17

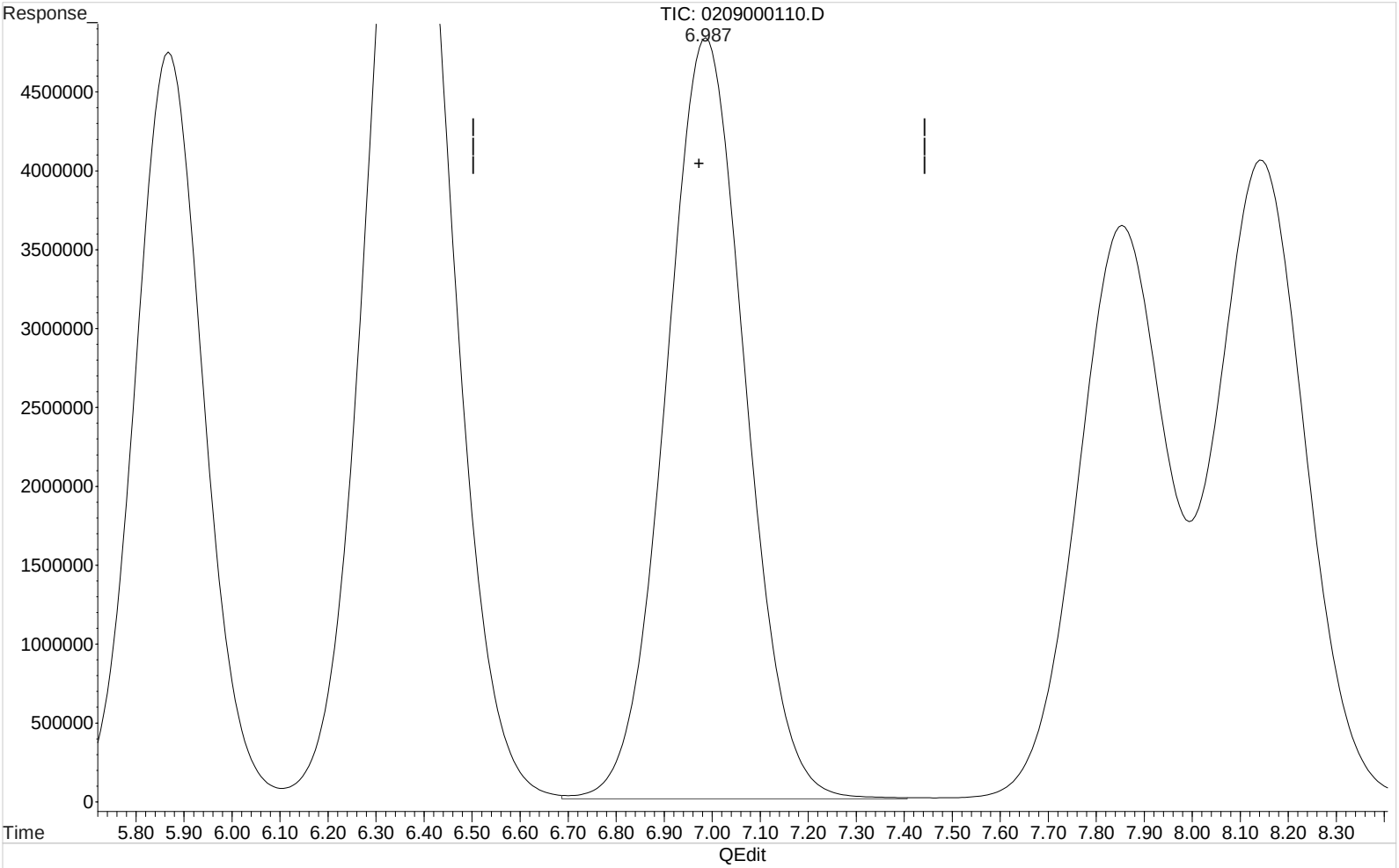
(+) = Expected Retention Time

1st (b) (6) 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(8) 3-NT (T)

6.987min 2020.510 ug/L m

response 55760509

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:28:34 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:17:26 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds							
11)	S	1-Chloro-3-Nitrobenzene	8.147	134147712	5211.143	ug/L	
Target Compounds							
1)	T	HMX	2.553	79282682	5154.023	ug/L	
2)	T	RDX	2.800	89521974	5111.845	ug/L	
3)	T	Nitrobenzene	4.487	185665109	5071.799	ug/L	m
4)	T	3,5-Dinitroaniline	5.247	231796987	5094.312	ug/L	
5)	T	4-Amino-2,6-DNT	4.873	157685856	5082.517	ug/L	
6)	T	2-NT	5.867	118315059	5035.938	ug/L	m
7)	T	2-Amino-4,6-DNT	6.367	208559971	5091.027	ug/L	m
8)	T	3-NT	6.987	138478990	5026.831	ug/L	
9)	T	1,3-DNB	9.140	276098652	5060.762	ug/L	
10)	T	4-NT	7.853	111473856	4934.615	ug/L	
12)	T	2,6-DNT	8.820	122414021	5095.886	ug/L	
13)	T	2,4-DNT	14.813	253409776	5067.205	ug/L	
14)	T	Tetryl	13.007	146489426	4868.306	ug/L	
15)	T	1,3,5-TNB	19.813	205131325	5052.852	ug/L	
16)	T	2,4,6-TNT	20.807	193626551	5082.074	ug/L	

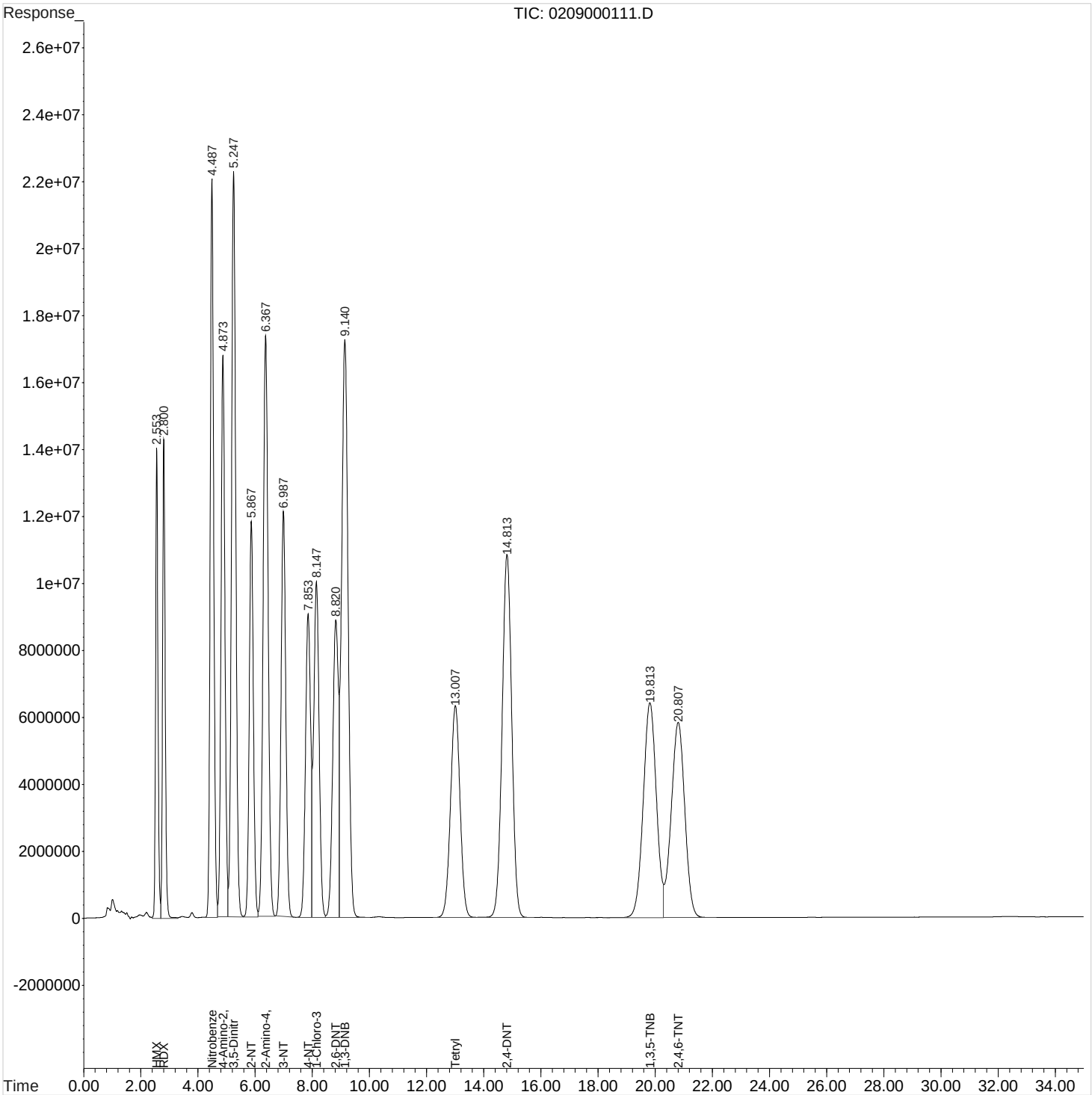
(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)
1st 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:28:34 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:17:26 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

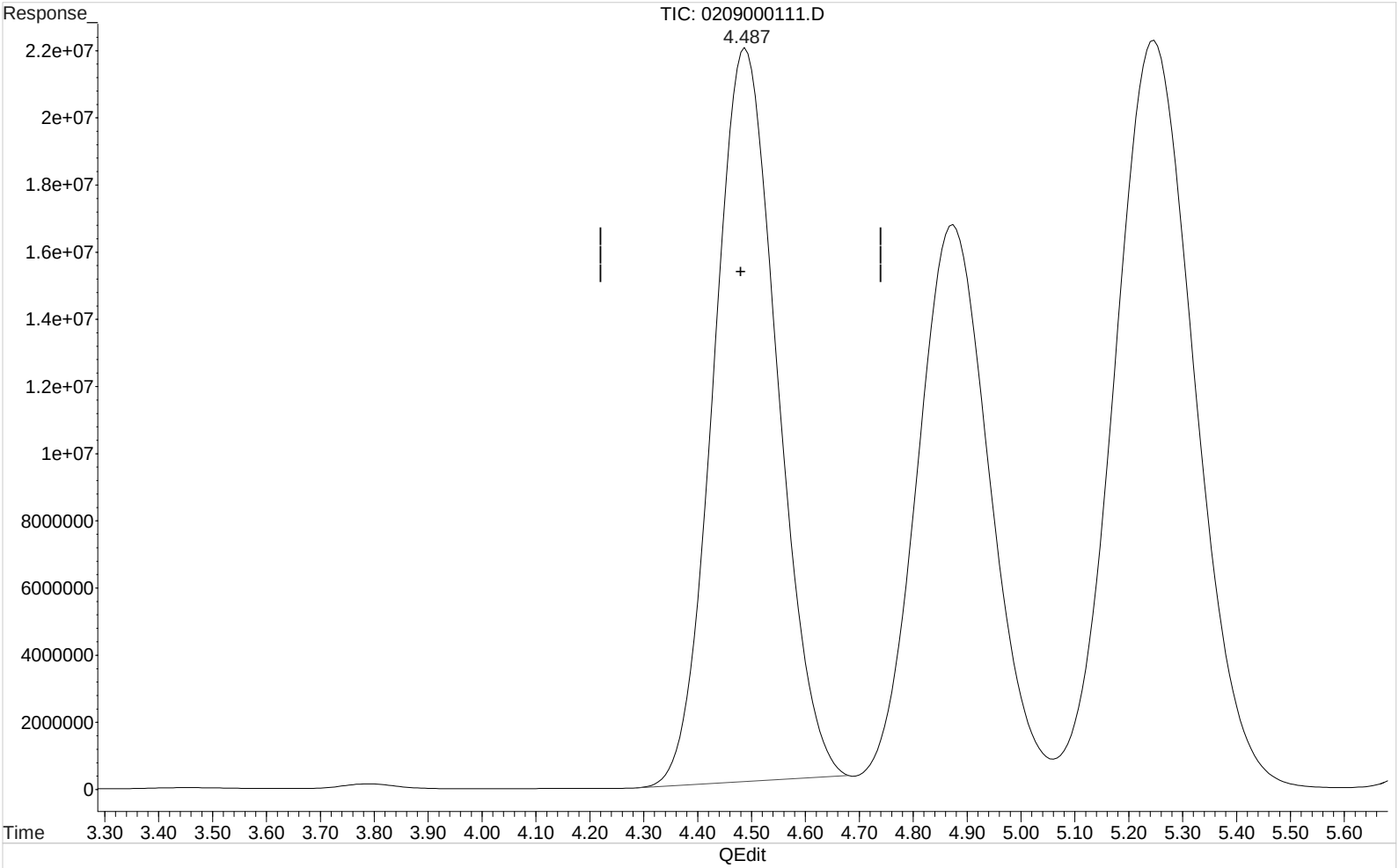


1st [redacted] 2/13/17
2nd [redacted] 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:26:24 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:17:26 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(3) Nitrobenzene (T)

4.487min 4932.834 ug/L

response 180577966

Manual Integration:

Before

02/13/17

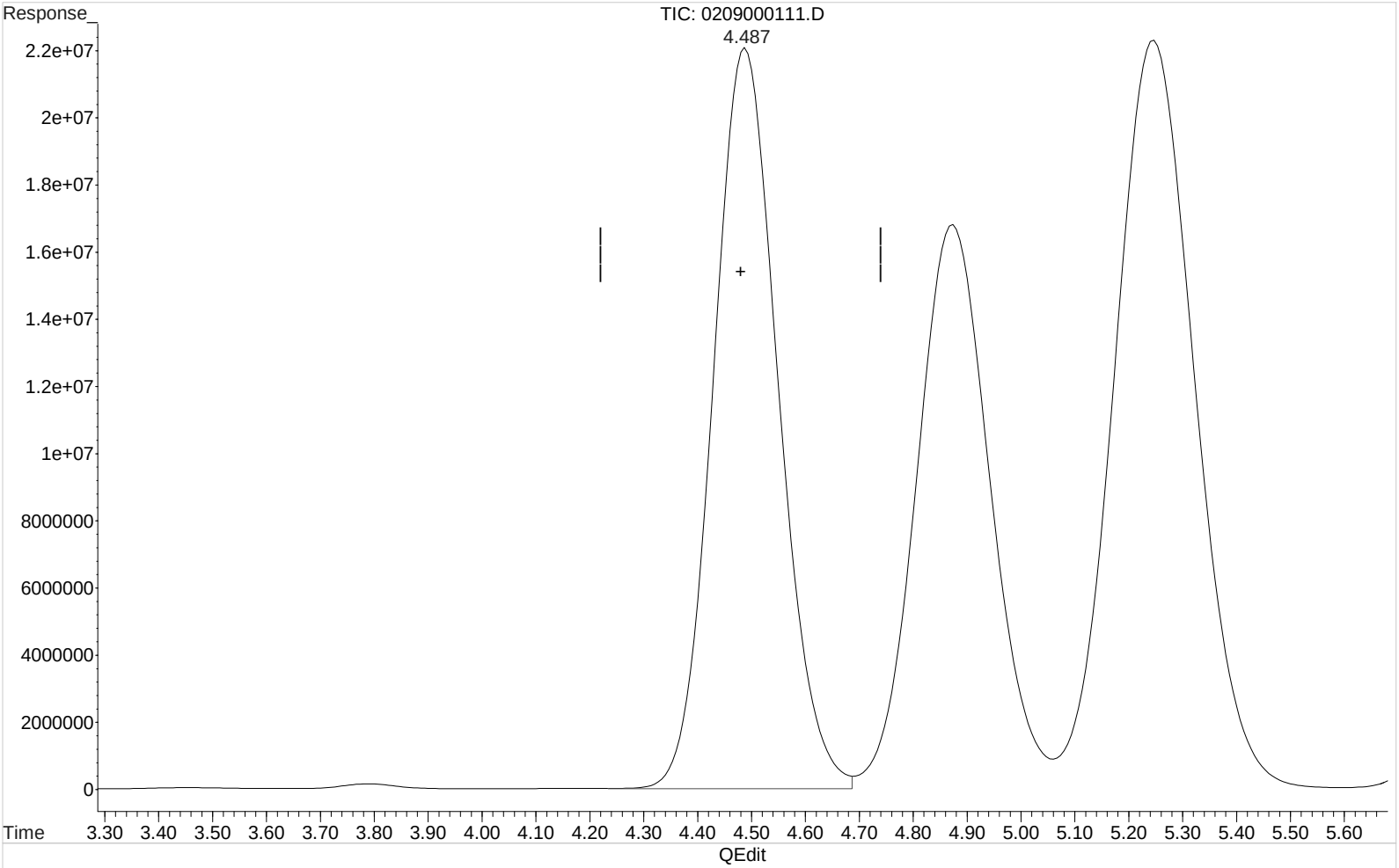
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:26:24 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:17:26 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 5071.799 ug/L m

response 185665109

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

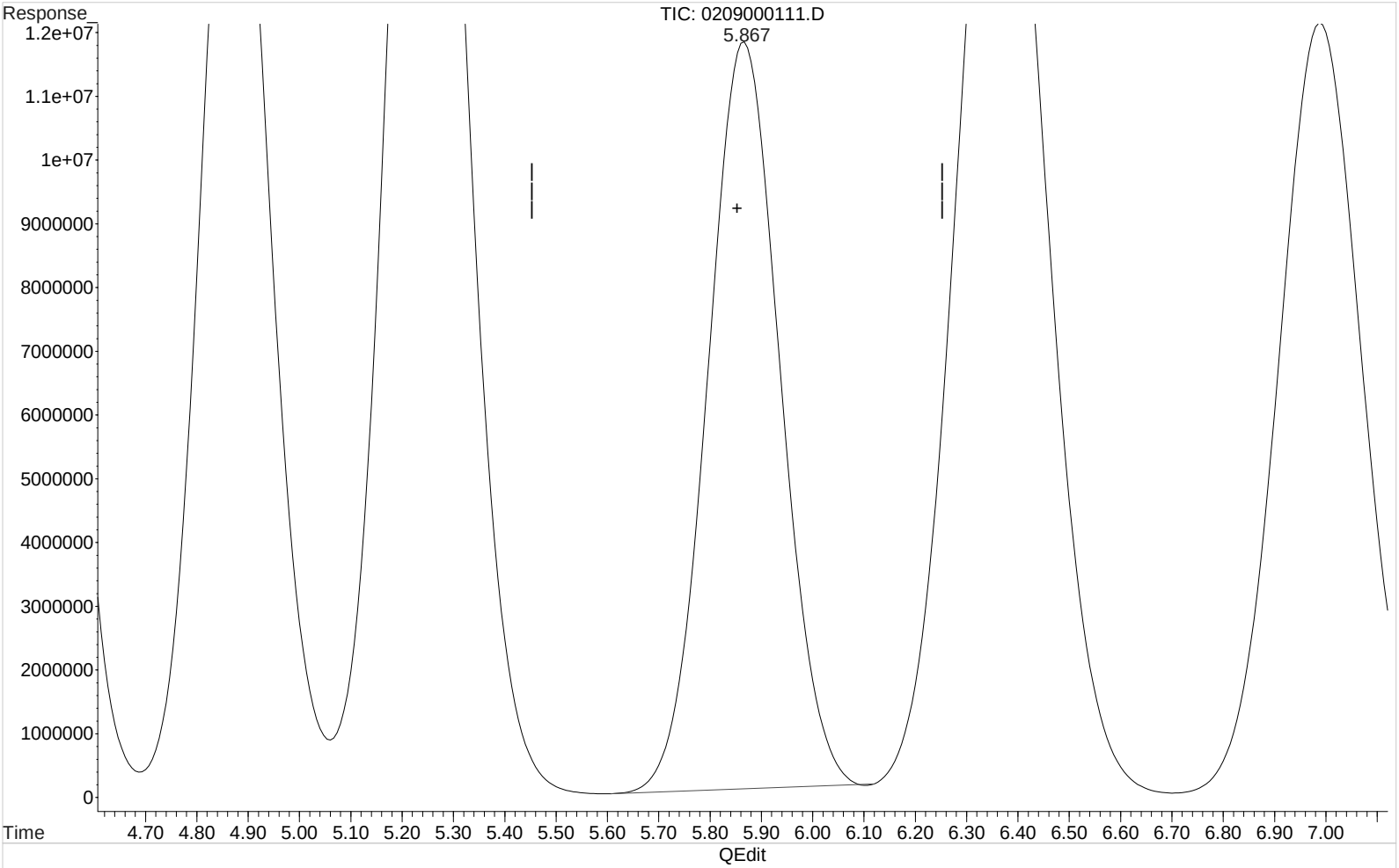
Quantitation Report (Qedit)

(b) (6)
1st 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:26:24 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:17:26 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.867min 4916.930 ug/L

response 115519071

Manual Integration:

Before

02/13/17

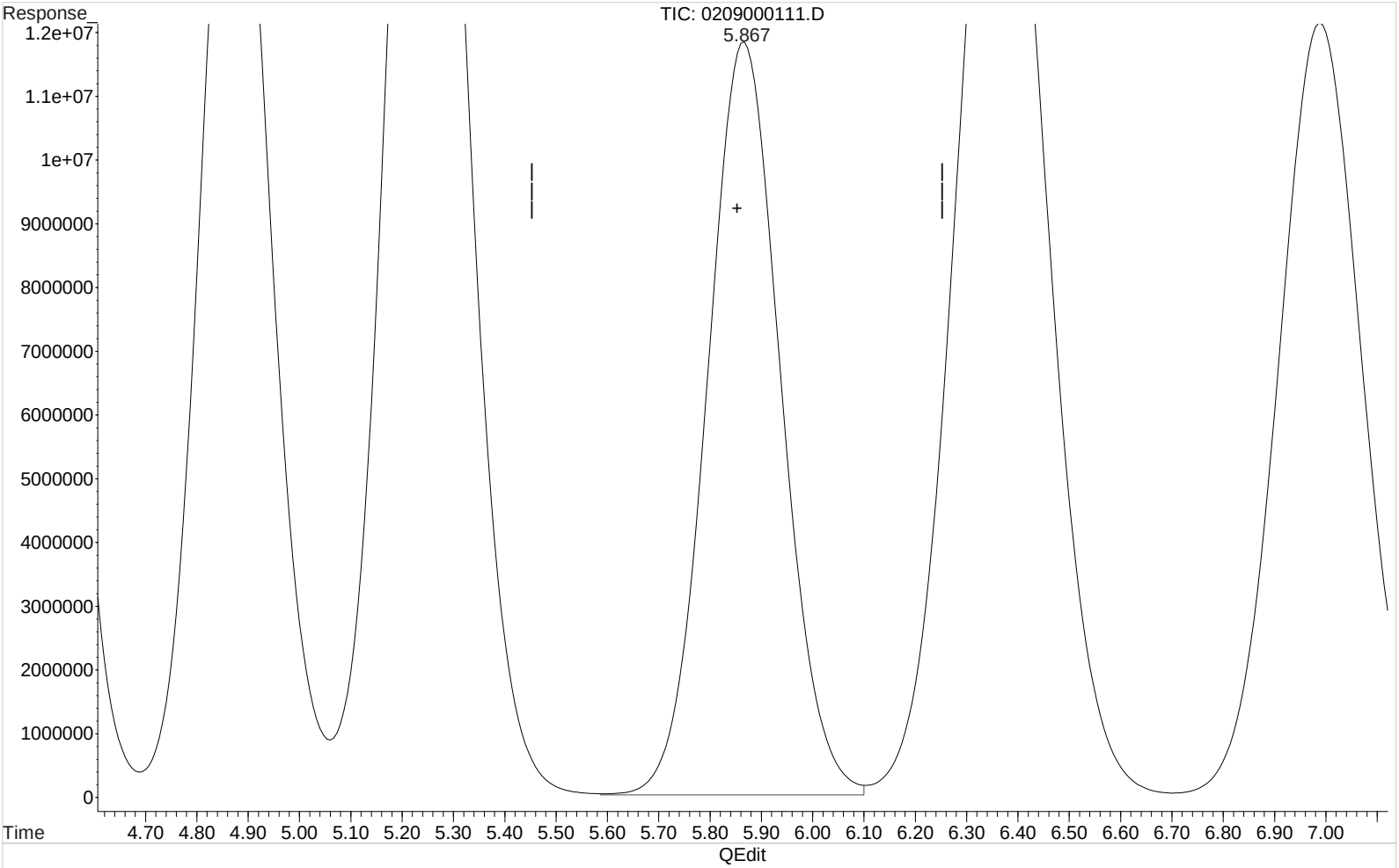
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:26:24 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:17:26 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.867min 5035.938 ug/L m

response 118315059

Manual Integration:

After

BLC

02/13/17

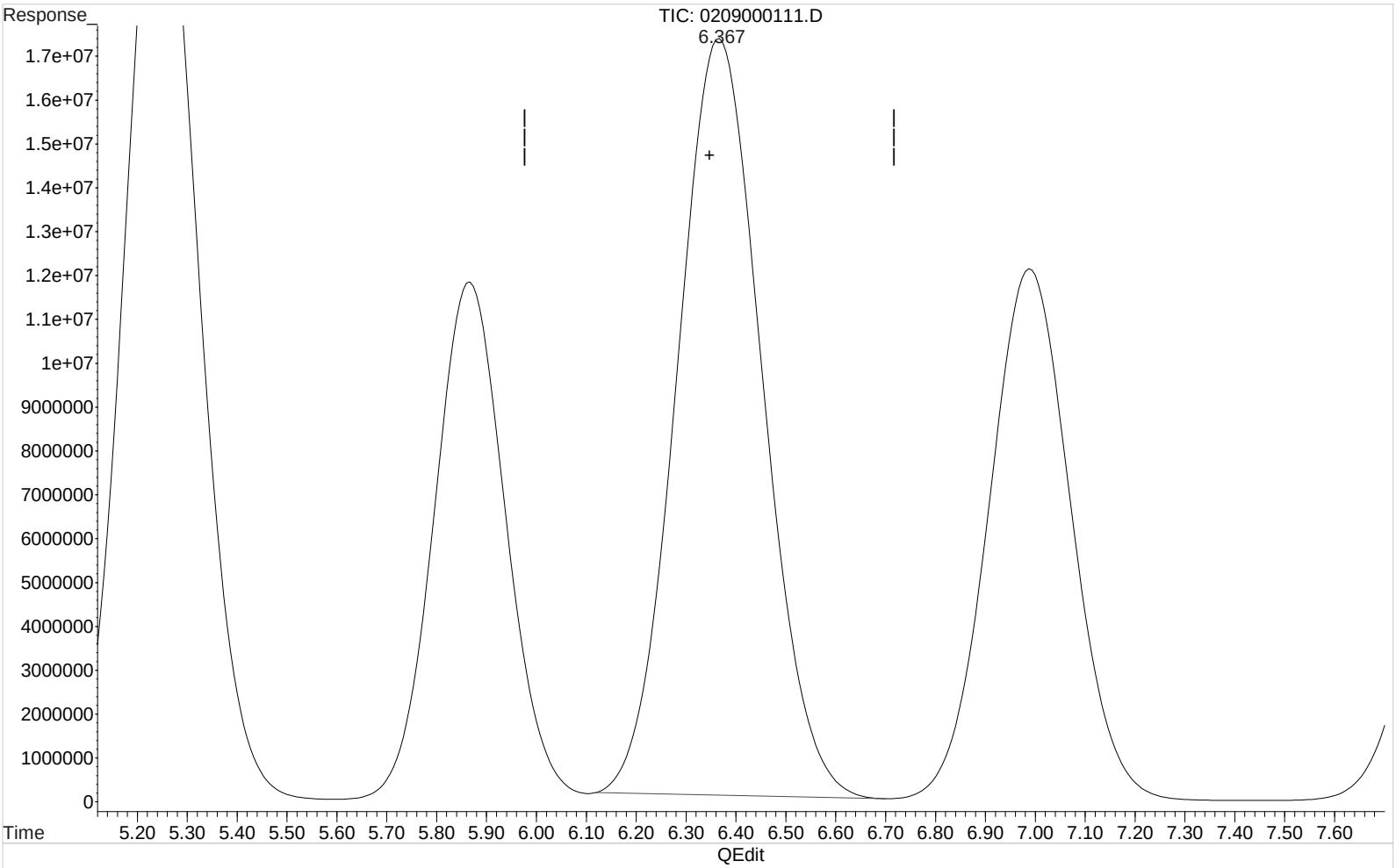
(+) = Expected Retention Time

(b)
(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:26:24 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:17:26 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(7) 2-Amino-4,6-DNT (T)

6.367min 5019.922 ug/L

response 205647048

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

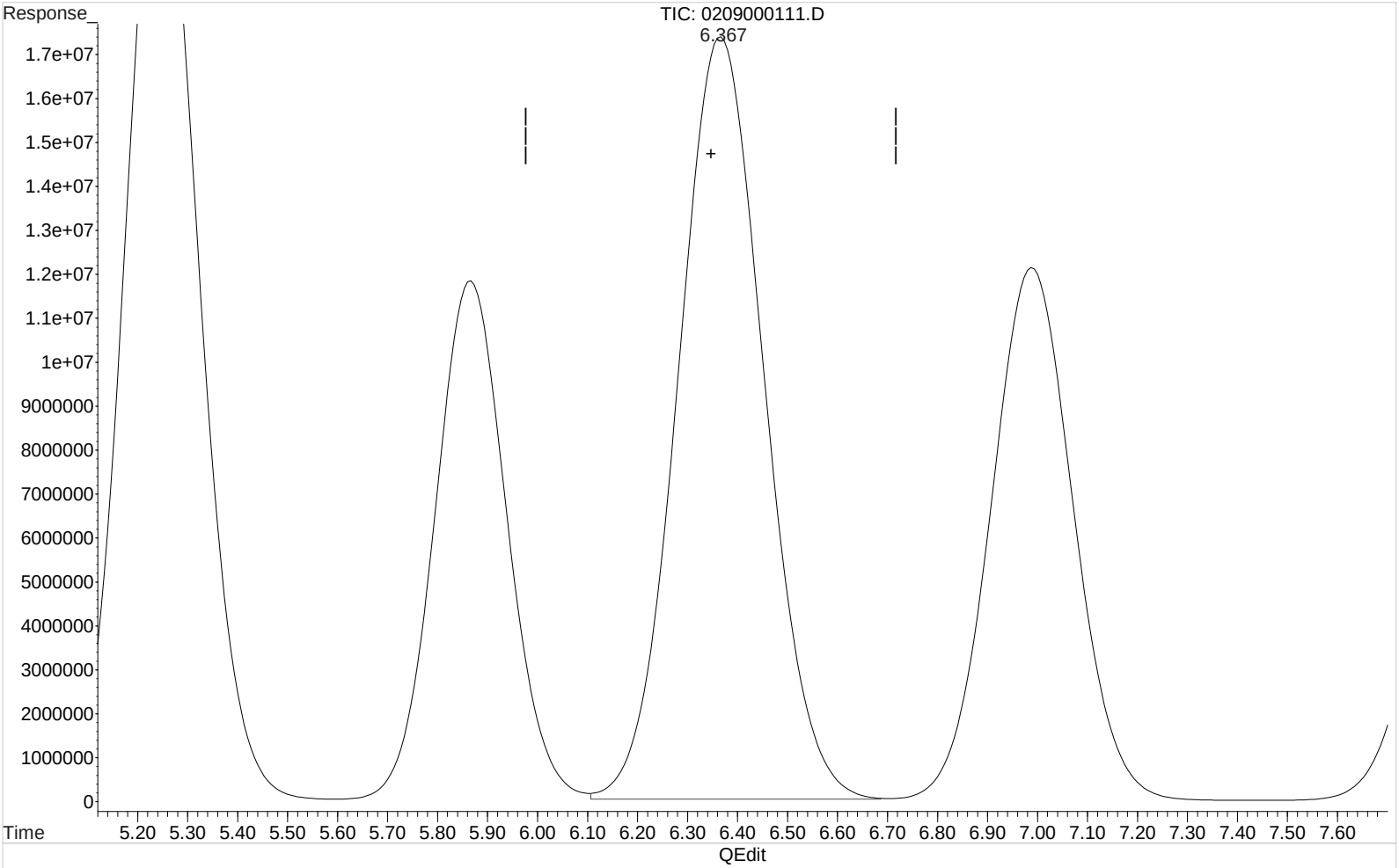
Quantitation Report (Qedit)

1st (b)(6) 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:26:24 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:17:26 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.367min 5091.027 ug/L m

response 208559971

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:17:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds							
11)	S	1-Chloro-3-Nitrobenzene	8.147	257923438	10038.822	ug/L	m
Target Compounds							
1)	T	HMX	2.560	156330222	10330.871	ug/L	
2)	T	RDX	2.807	177001774	10216.476	ug/L	
3)	T	Nitrobenzene	4.493	370376696	10237.897	ug/L	
4)	T	3,5-Dinitroaniline	5.247	458842323	10169.818	ug/L	m
5)	T	4-Amino-2,6-DNT	4.873	313989796	10243.922	ug/L	m
6)	T	2-NT	5.867	236863088	10164.931	ug/L	m
7)	T	2-Amino-4,6-DNT	6.367	413821685	10205.169	ug/L	m
8)	T	3-NT	6.987	279071838	10264.235	ug/L	m
9)	T	1,3-DNB	9.140	552448178	10255.466	ug/L	
10)	T	4-NT	7.853	225919896	10001.598	ug/L	m
12)	T	2,6-DNT	8.827	240477250	10021.333	ug/L	
13)	T	2,4-DNT	14.813	504050621	10159.346	ug/L	
14)	T	Tetryl	13.000	305802840	10330.977	ug/L	
15)	T	1,3,5-TNB	19.813	409388283	10169.760	ug/L	
16)	T	2,4,6-TNT	20.800	385651394	10247.235	ug/L	

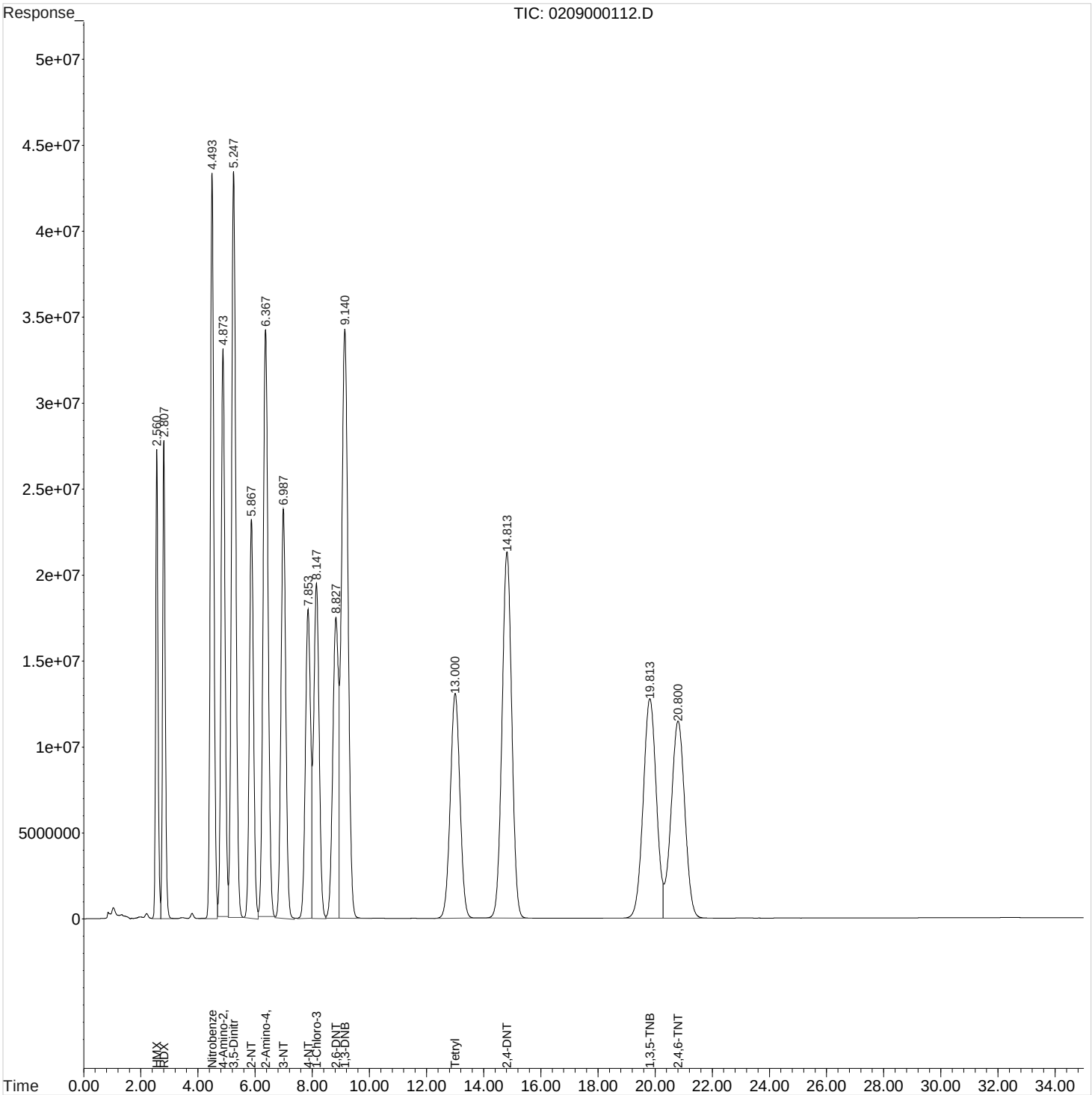
(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)
1st 2/13/17
2n 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:17:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

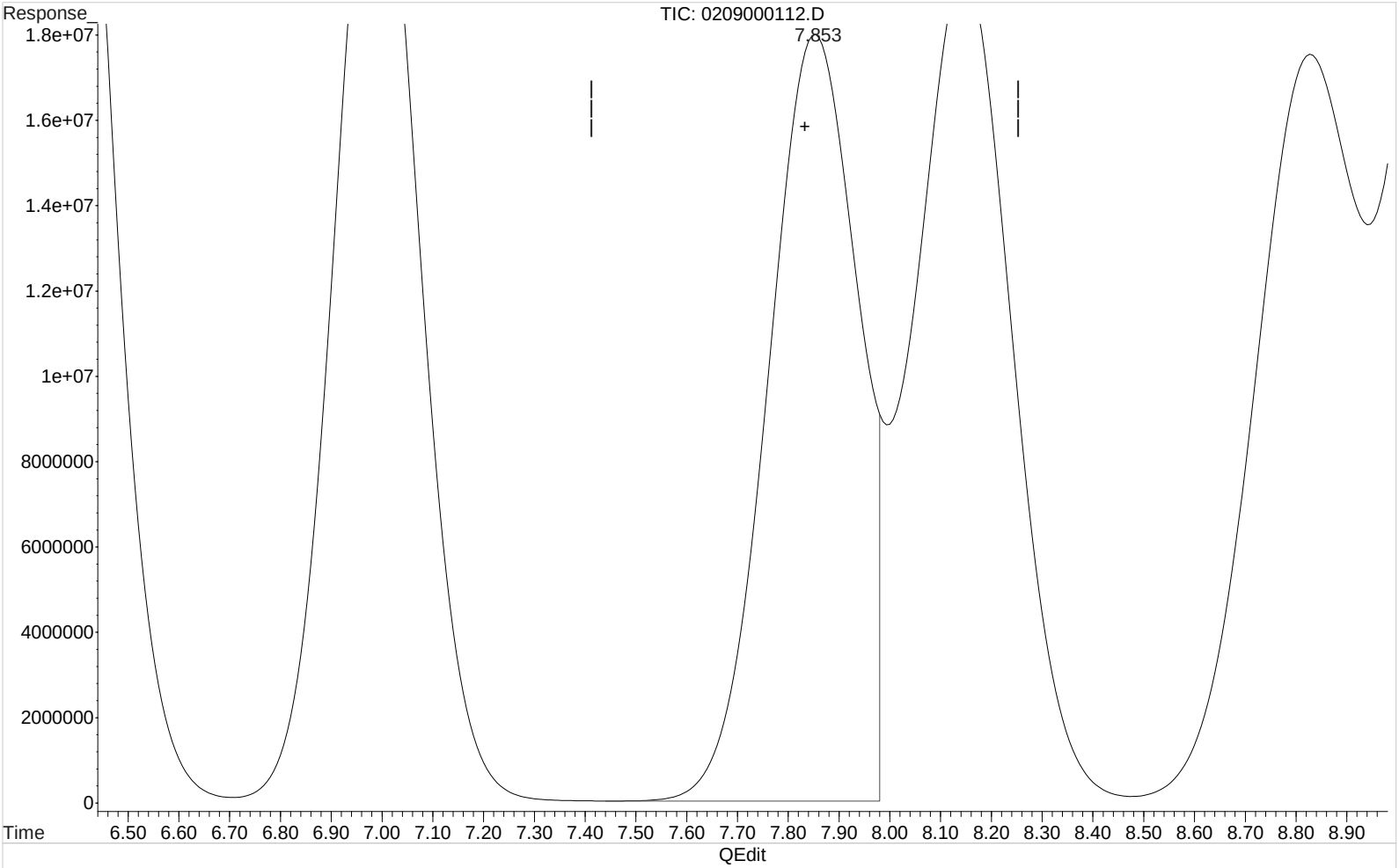


(b)
(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.853min 9829.535 ug/L

response 222033281

Manual Integration:

Before

02/13/17

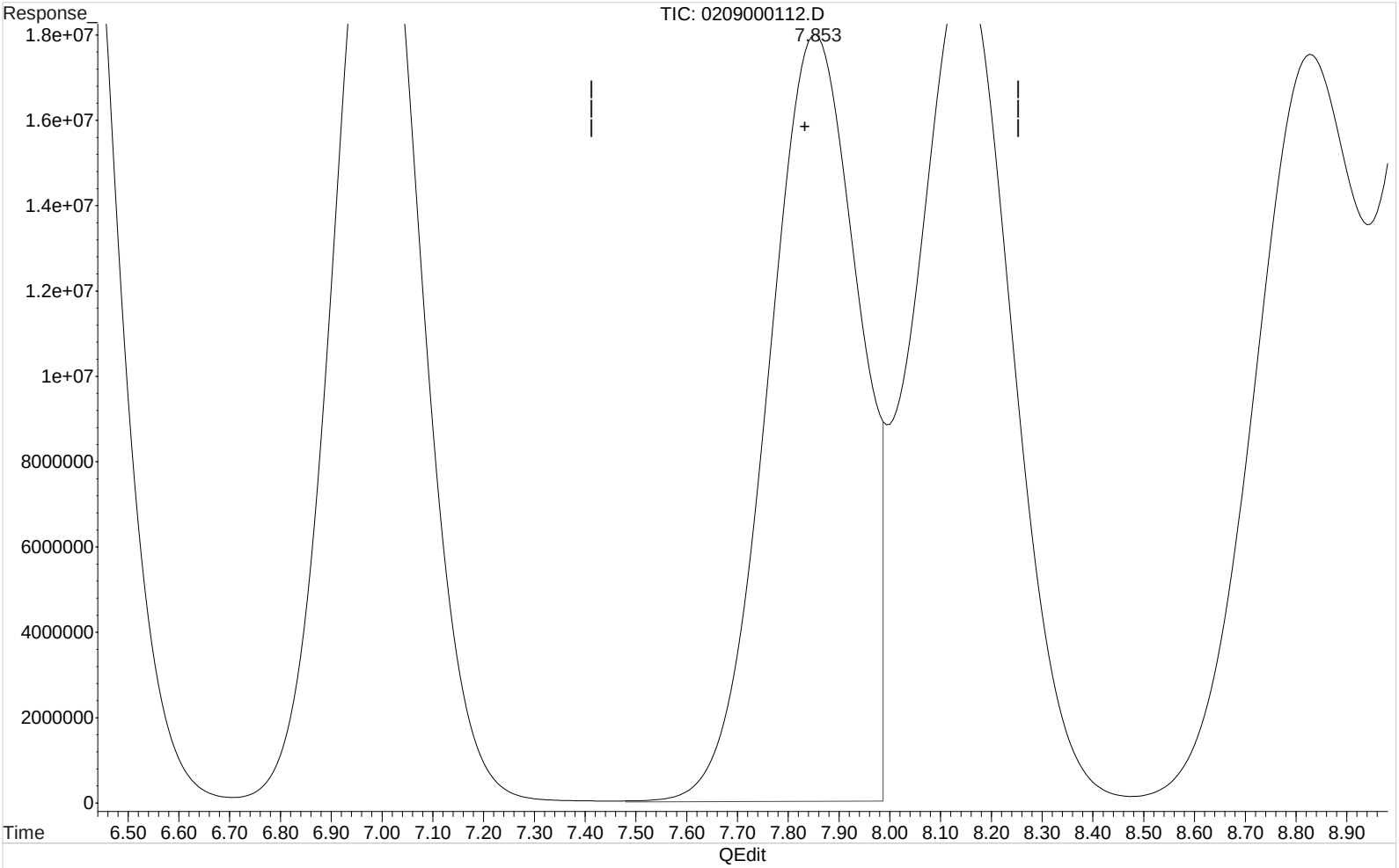
(+) = Expected Retention Time

(b)
(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.853min 10001.598 ug/L m

response 225919896

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

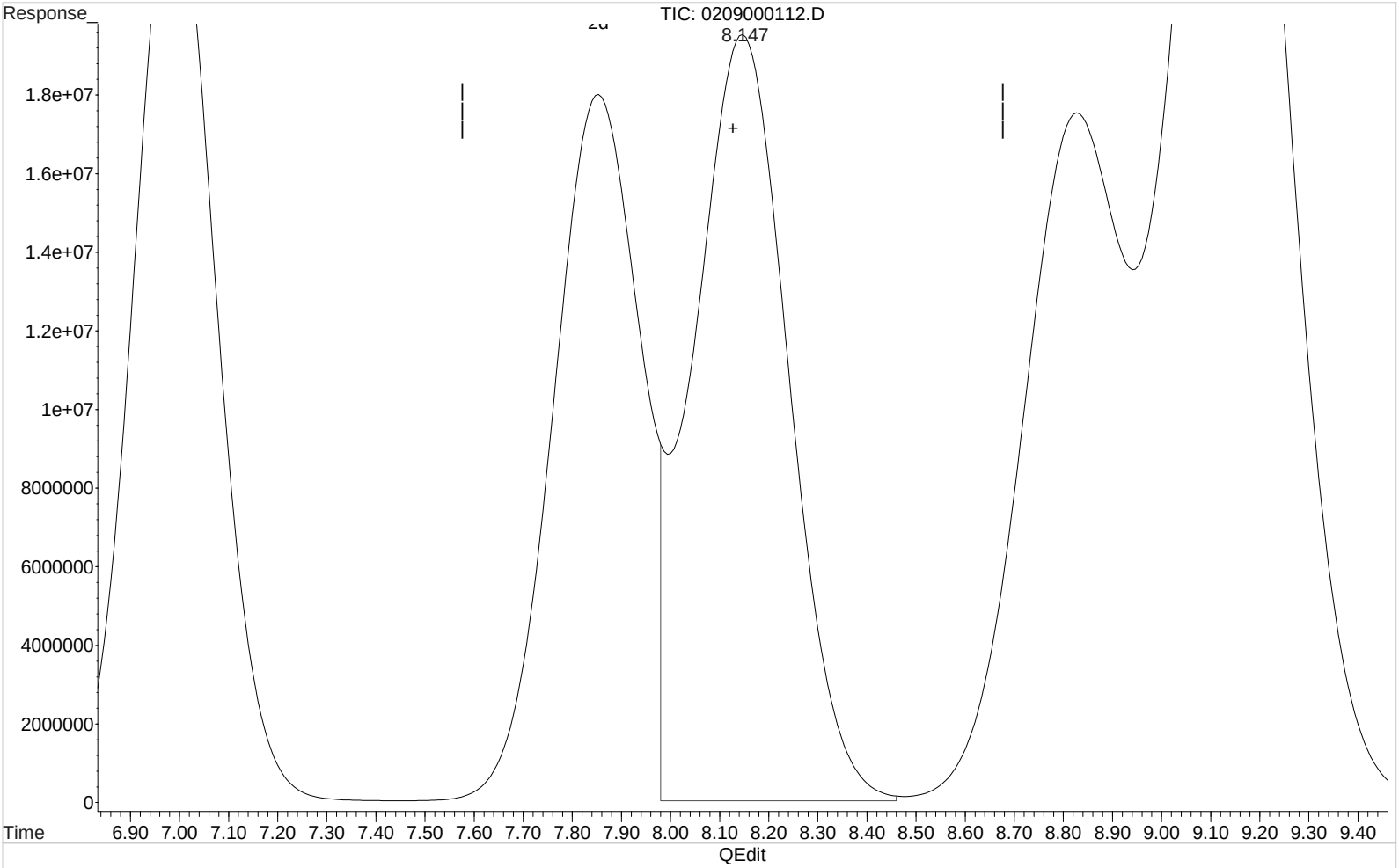
1st 02/13/17

2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(11) 1-Chloro-3-Nitrobenzene (S)

8.147min 10288.229 ug/L

response 264331346

Manual Integration:

Before

02/13/17

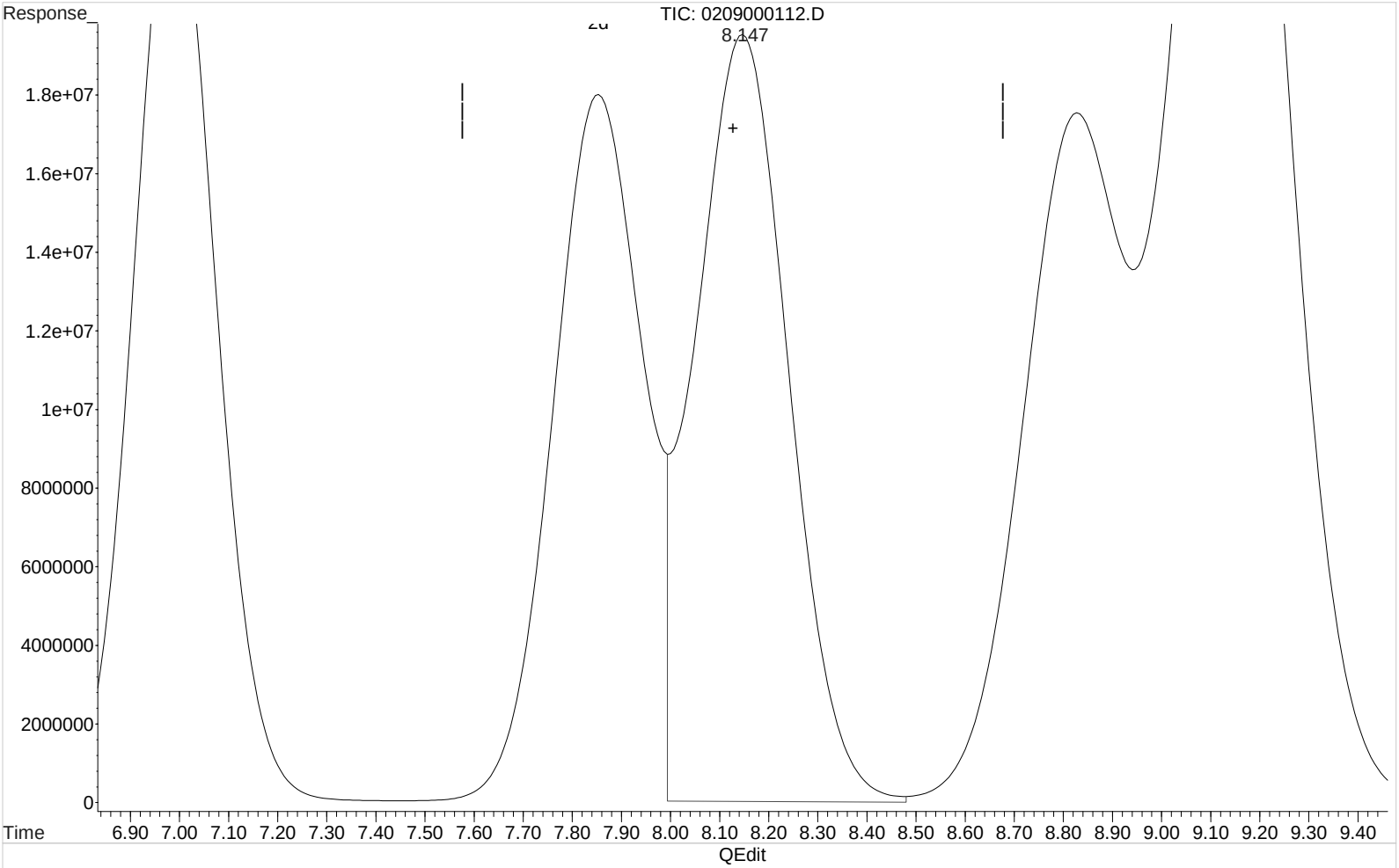
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(11) 1-Chloro-3-Nitrobenzene (S)

8.147min 10038.822 ug/L m

response 257923438

Manual Integration:

After

BLC

02/13/17

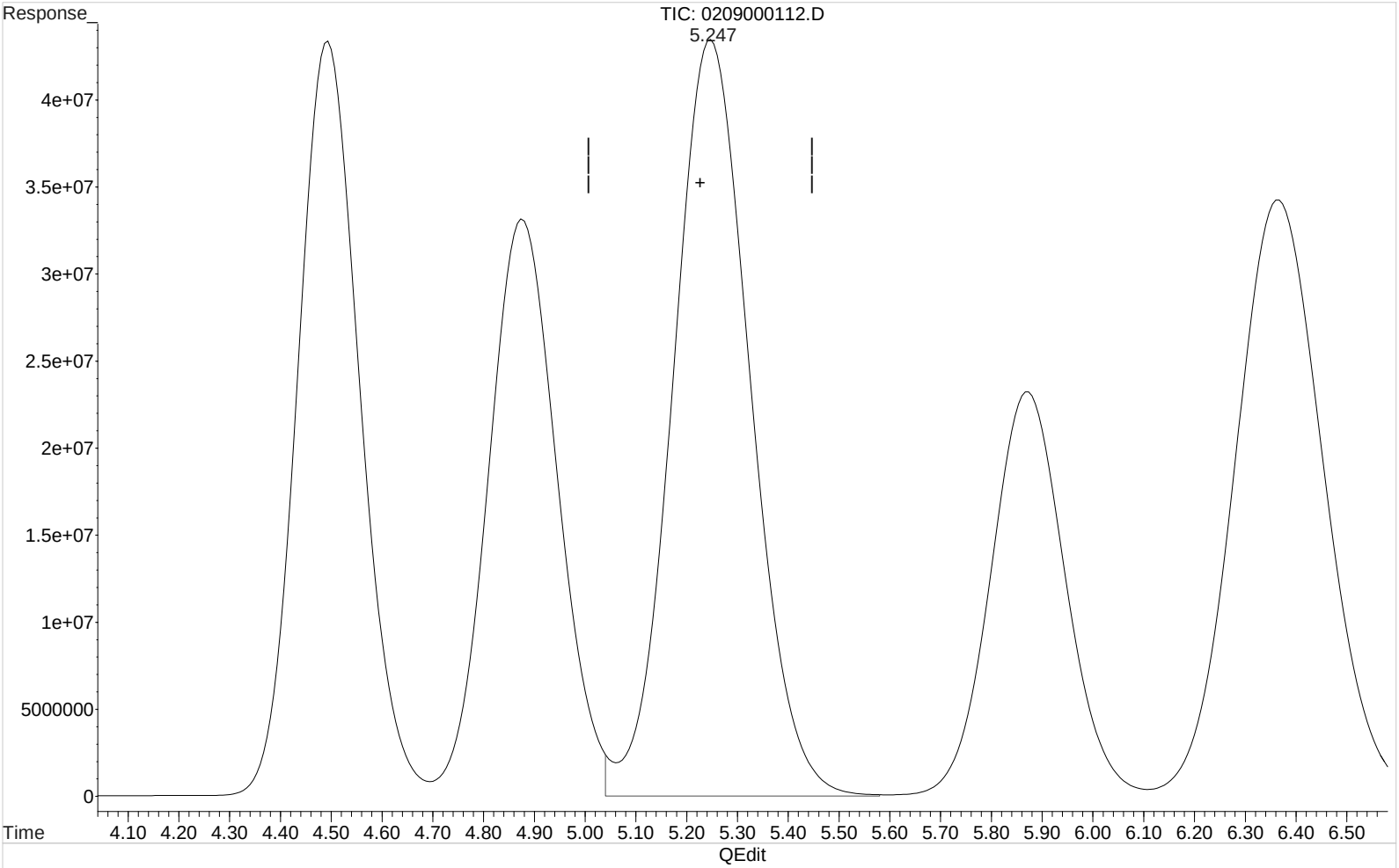
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(4) 3,5-Dinitroaniline (T)

5.247min 10267.538 ug/L

response 463251246

Manual Integration:

Before

02/13/17

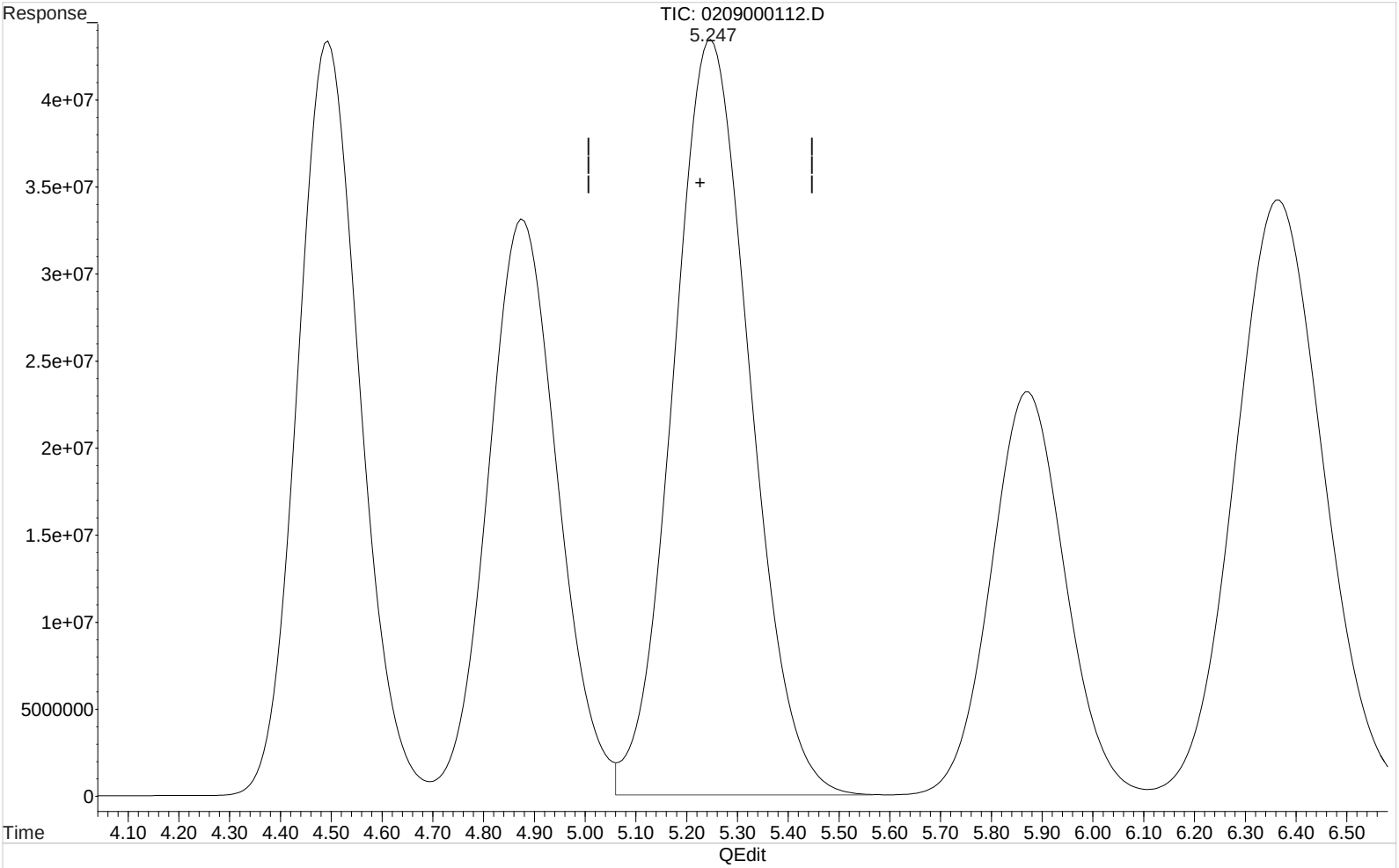
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(4) 3,5-Dinitroaniline (T)

5.247min 10169.818 ug/L m

response 458842323

Manual Integration:

After

BLC

02/13/17

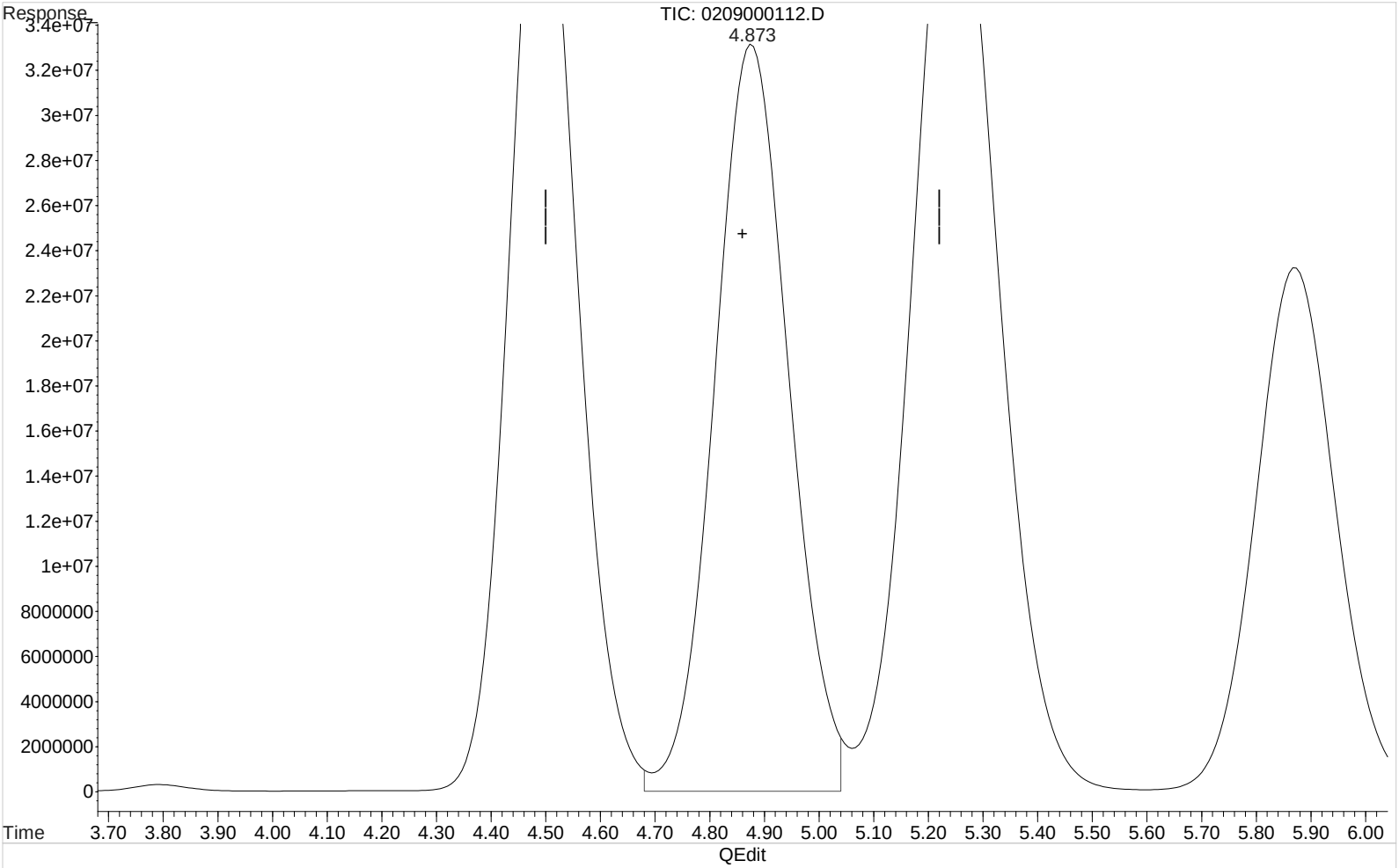
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(5) 4-Amino-2,6-DNT (T)

4.873min 10247.500 ug/L

response 314099468

Manual Integration:

Before

02/13/17

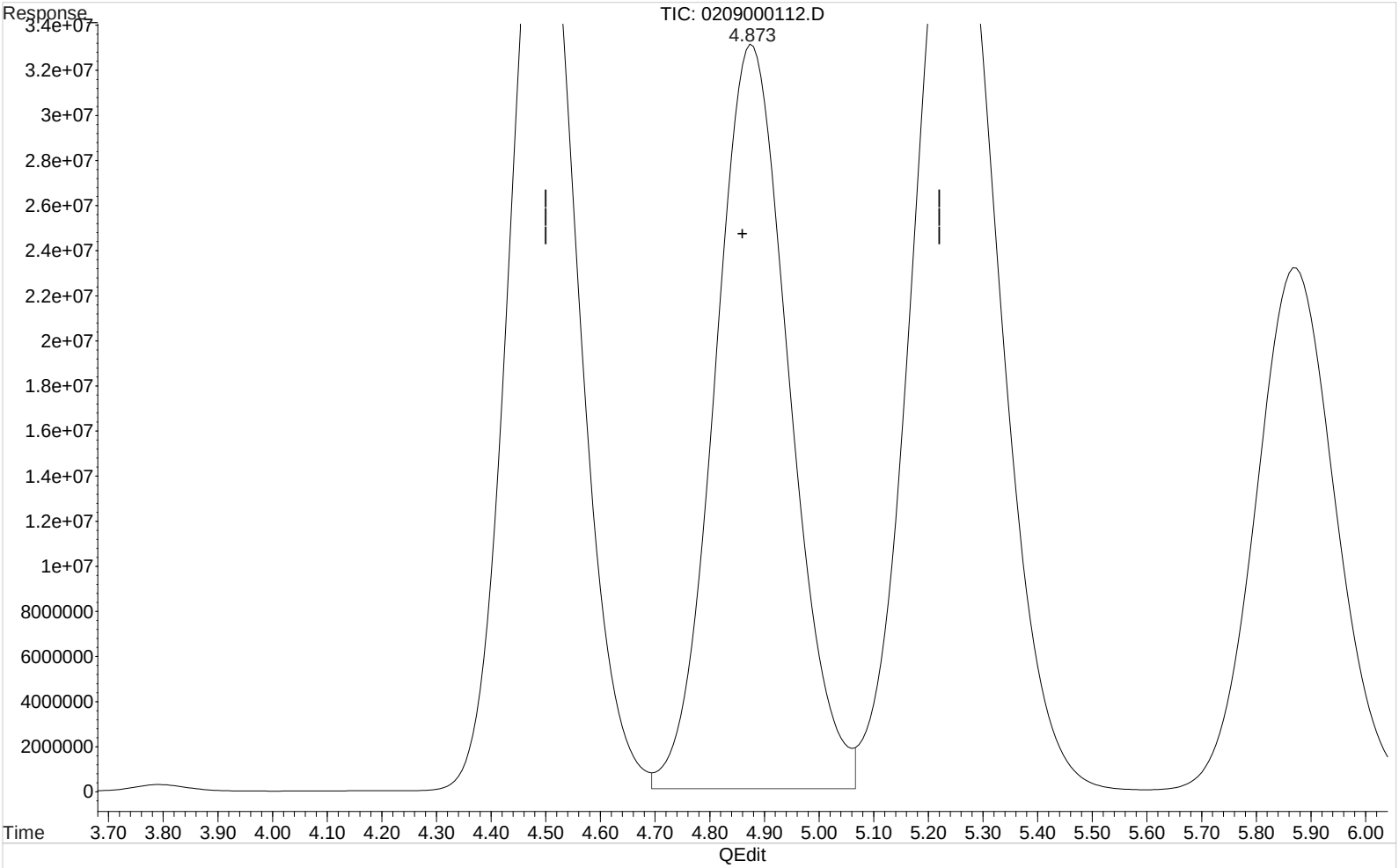
(+) = Expected Retention Time

(b)
(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(5) 4-Amino-2,6-DNT (T)

4.873min 10243.922 ug/L m

response 313989796

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

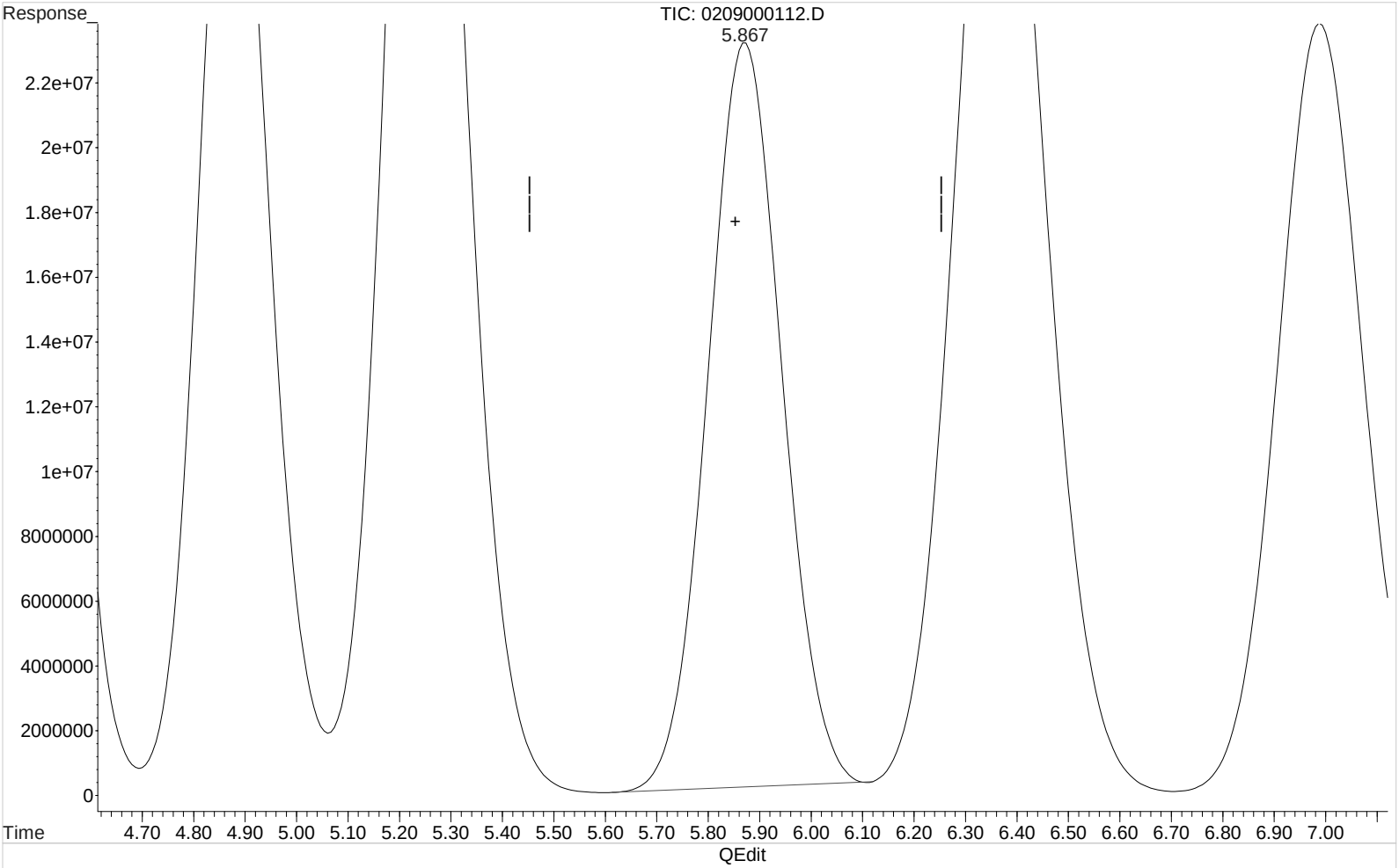
Quantitation Report (Qedit)

(b) (6)
1st 2/13/17
2n 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.867min 9878.222 ug/L

response 230182186

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

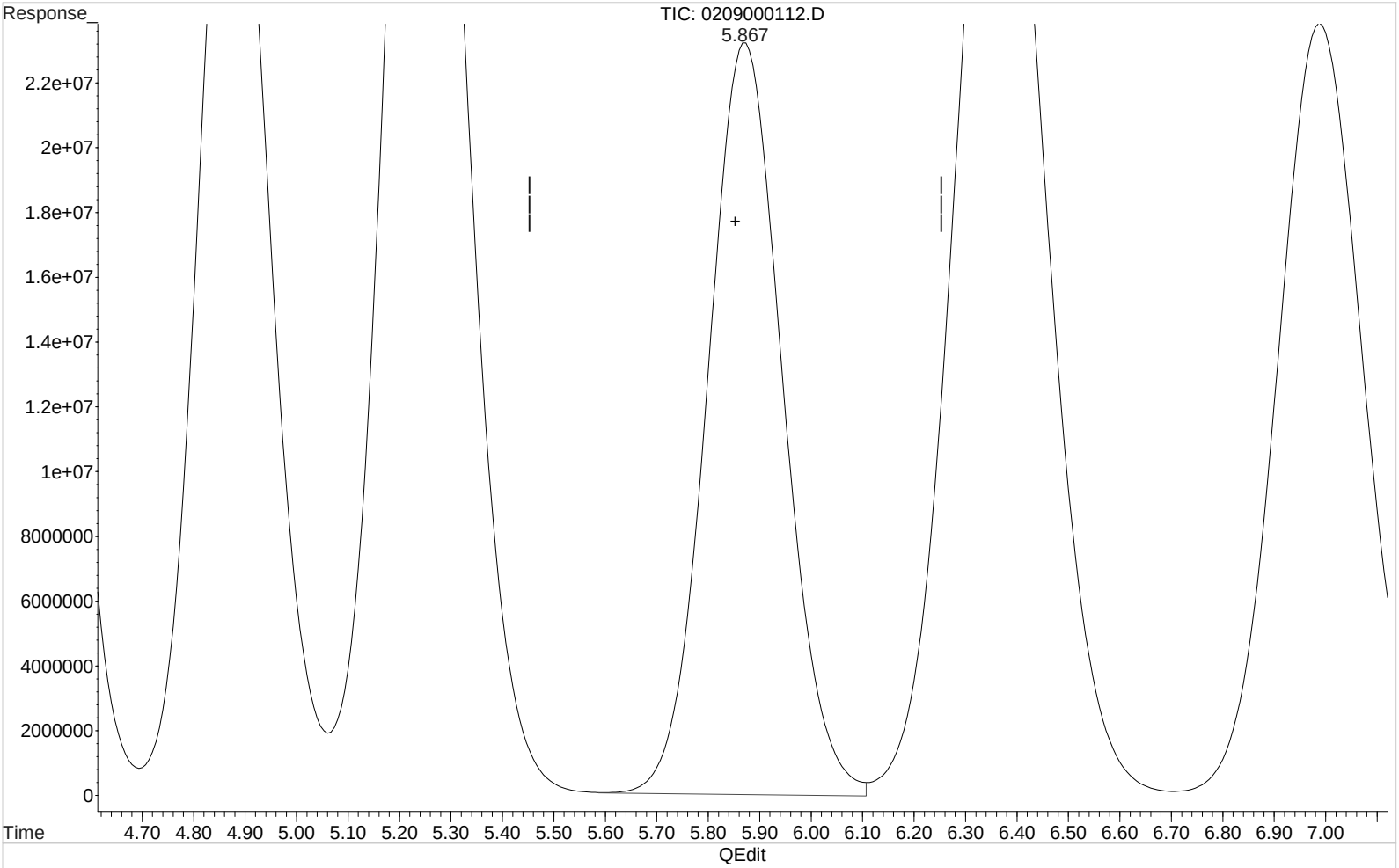
Quantitation Report (Qedit)

(b)
(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.867min 10164.931 ug/L m

response 236863088

Manual Integration:

After

BLC

02/13/17

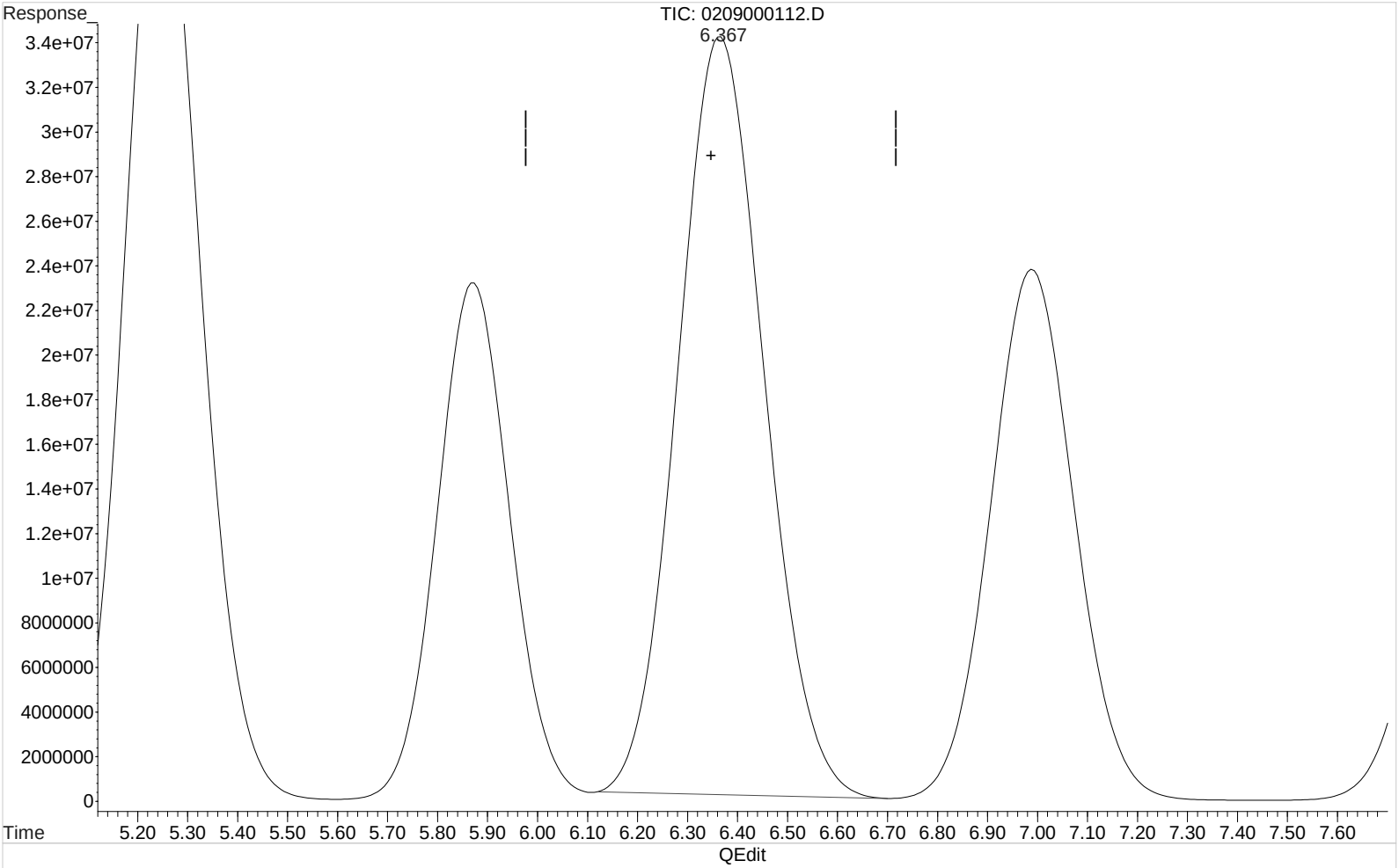
(+) = Expected Retention Time

1st (b) (6) 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.367min 10087.717 ug/L

response 409058973

Manual Integration:

Before

02/13/17

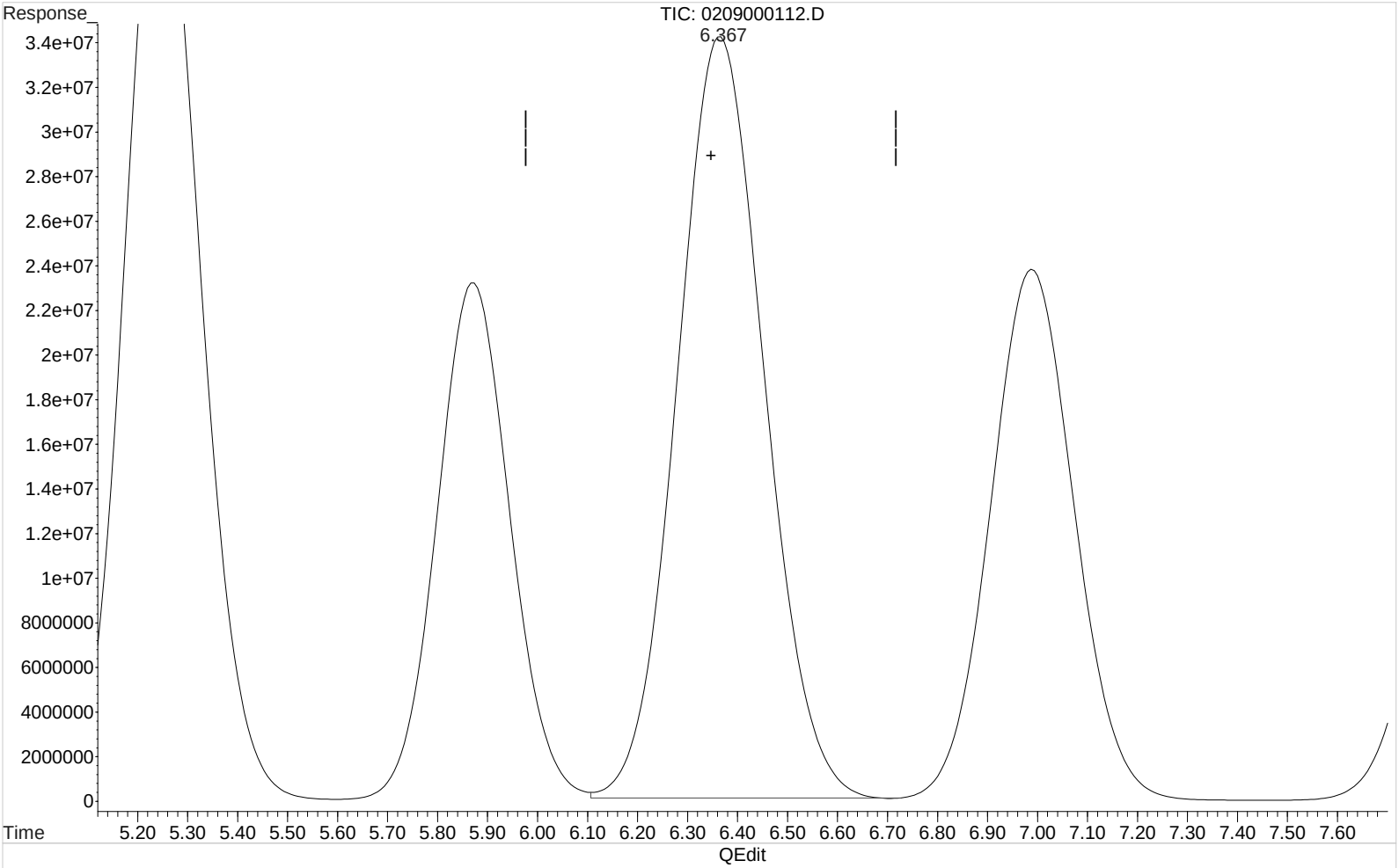
(+) = Expected Retention Time

(b) (6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(7) 2-Amino-4,6-DNT (T)

6.367min 10205.169 ug/L m

response 413821685

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

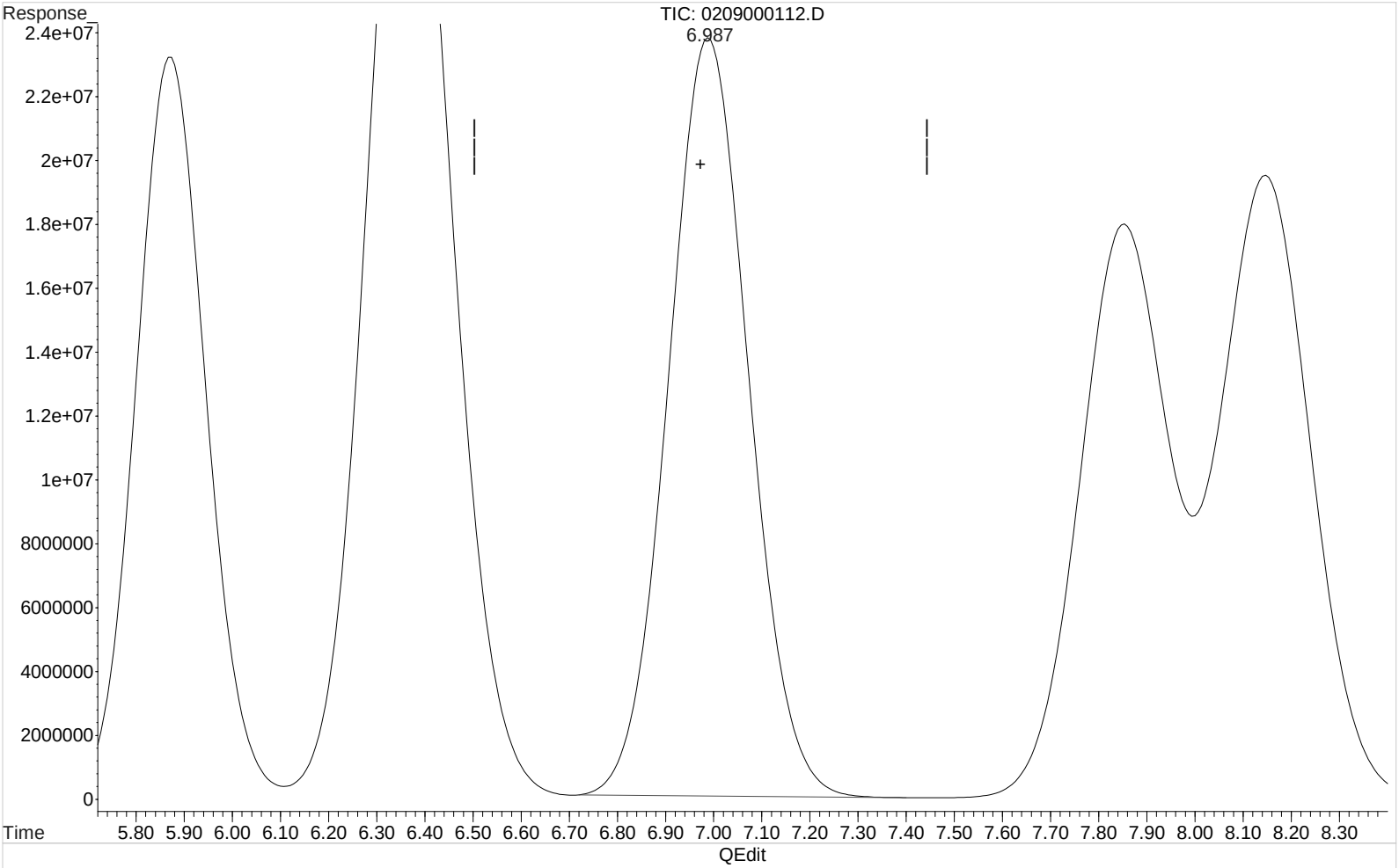
Quantitation Report (Qedit)

(b) (6)
1st [redacted] 2/13/17
2n [redacted] 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(8) 3-NT (T)

6.987min 10153.407 ug/L

response 276058564

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

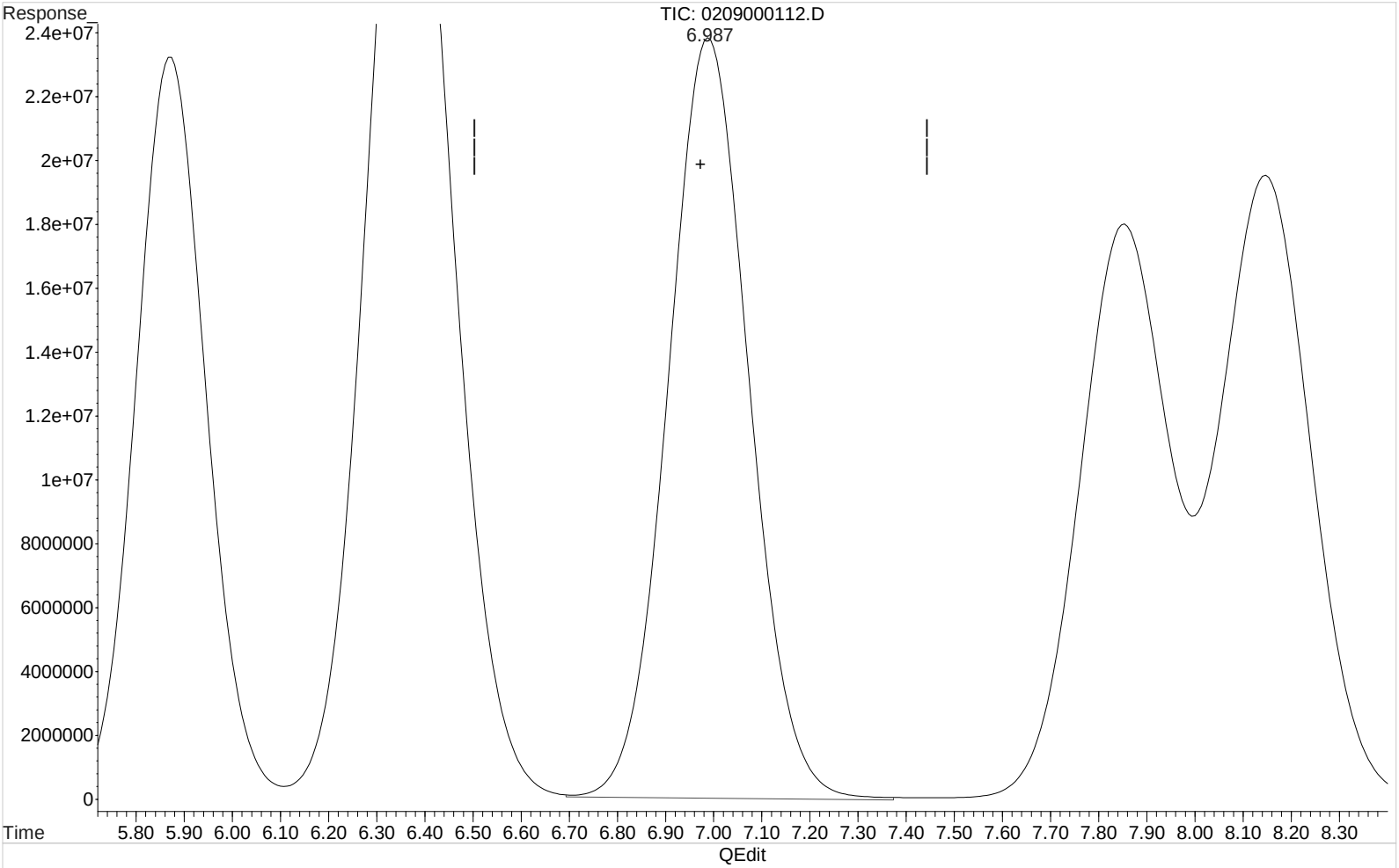
Quantitation Report (Qedit)

(b) (6)
1st 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(8) 3-NT (T)

6.987min 10264.235 ug/L m

response 279071838

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

(b) (6)
1s 02/13/17
2n 02/17/17

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:12:35 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
11)	S	1-Chloro-3-Nitrobenzene	8.127	513851991	NoCal	ug/L	
		Target Compounds					
1)	T	HMX	2.553f	302646741	NoCal	ug/L	m
2)	T	RDX	2.800f	346502613	NoCal	ug/L	m
3)	T	Nitrobenzene	4.480	723540605	NoCal	ug/L	
4)	T	3,5-Dinitroaniline	5.227	902360936	NoCal	ug/L	
5)	T	4-Amino-2,6-DNT	4.860	613026515	NoCal	ug/L	
6)	T	2-NT	5.853	466039716	NoCal	ug/L	
7)	T	2-Amino-4,6-DNT	6.347	811004098	NoCal	ug/L	m
8)	T	3-NT	6.973	543775210	NoCal	ug/L	m
9)	T	1,3-DNB	9.120	1077373089	NoCal	ug/L	m
10)	T	4-NT	7.833	451767608	NoCal	ug/L	
12)	T	2,6-DNT	8.807	479930654	NoCal	ug/L	m
13)	T	2,4-DNT	14.800	992289543	NoCal	ug/L	
14)	T	Tetryl	12.987	592011460	NoCal	ug/L	
15)	T	1,3,5-TNB	19.800f	805109064	NoCal	ug/L	m
16)	T	2,4,6-TNT	20.780f	752693580	NoCal	ug/L	

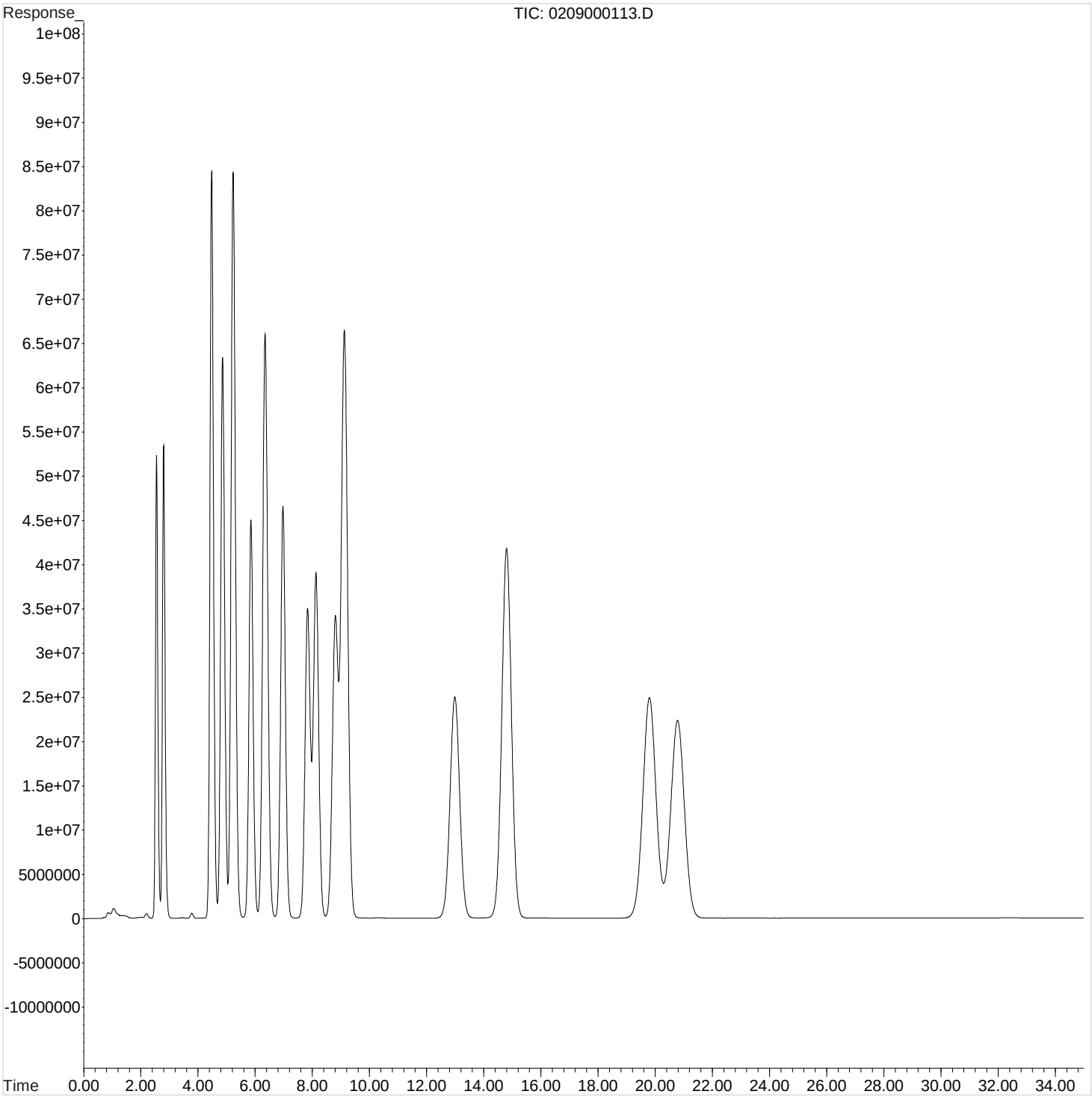
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:12:35 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



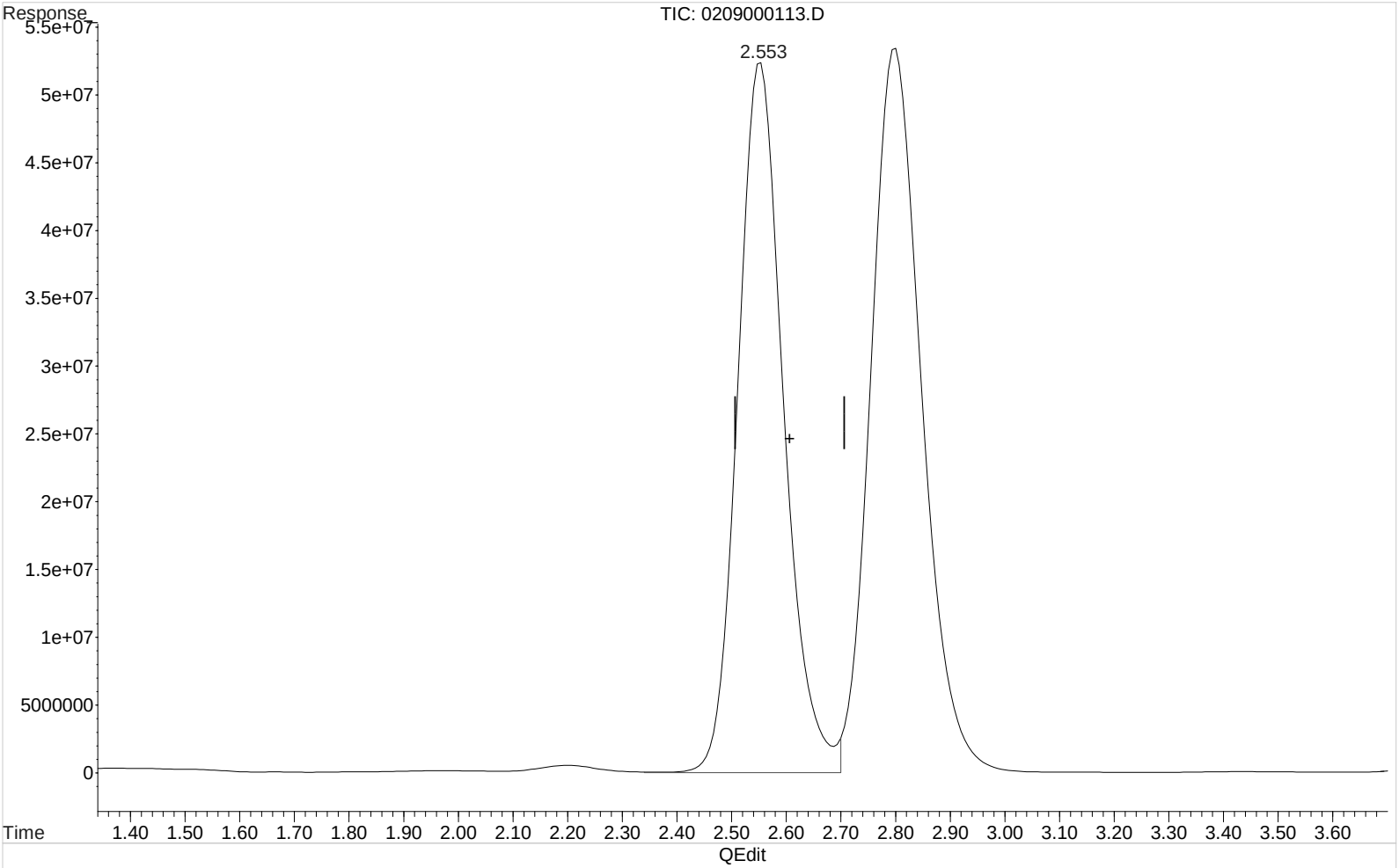
Quantitation Report (Qedit)

(b) (6)
1st 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:19 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.553min 0.000 ug/L

response 305316401

Manual Integration:

Before

02/13/17

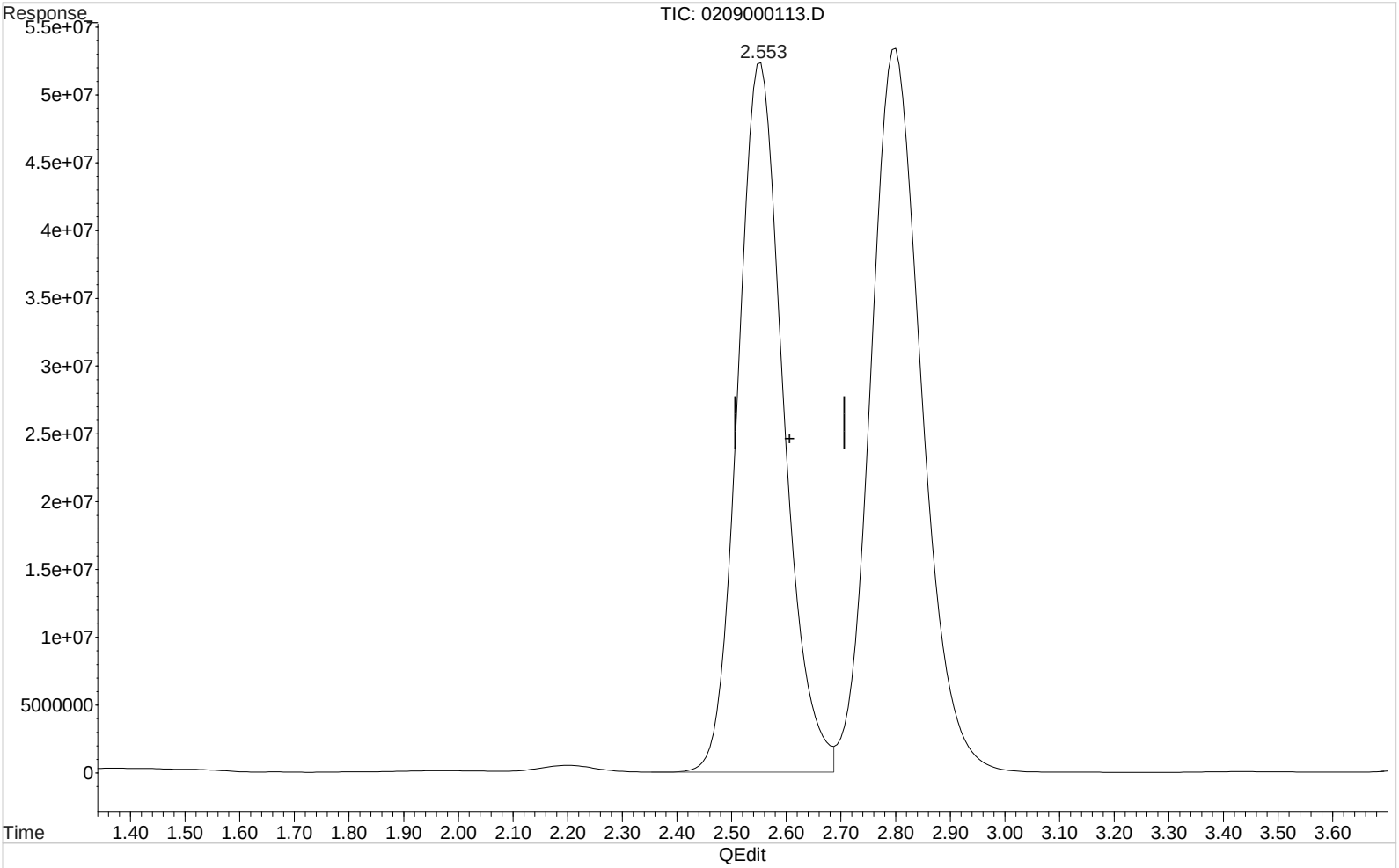
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:19 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.553min 0.000 ug/L m

response 302646741

Manual Integration:

After

BLC

02/13/17

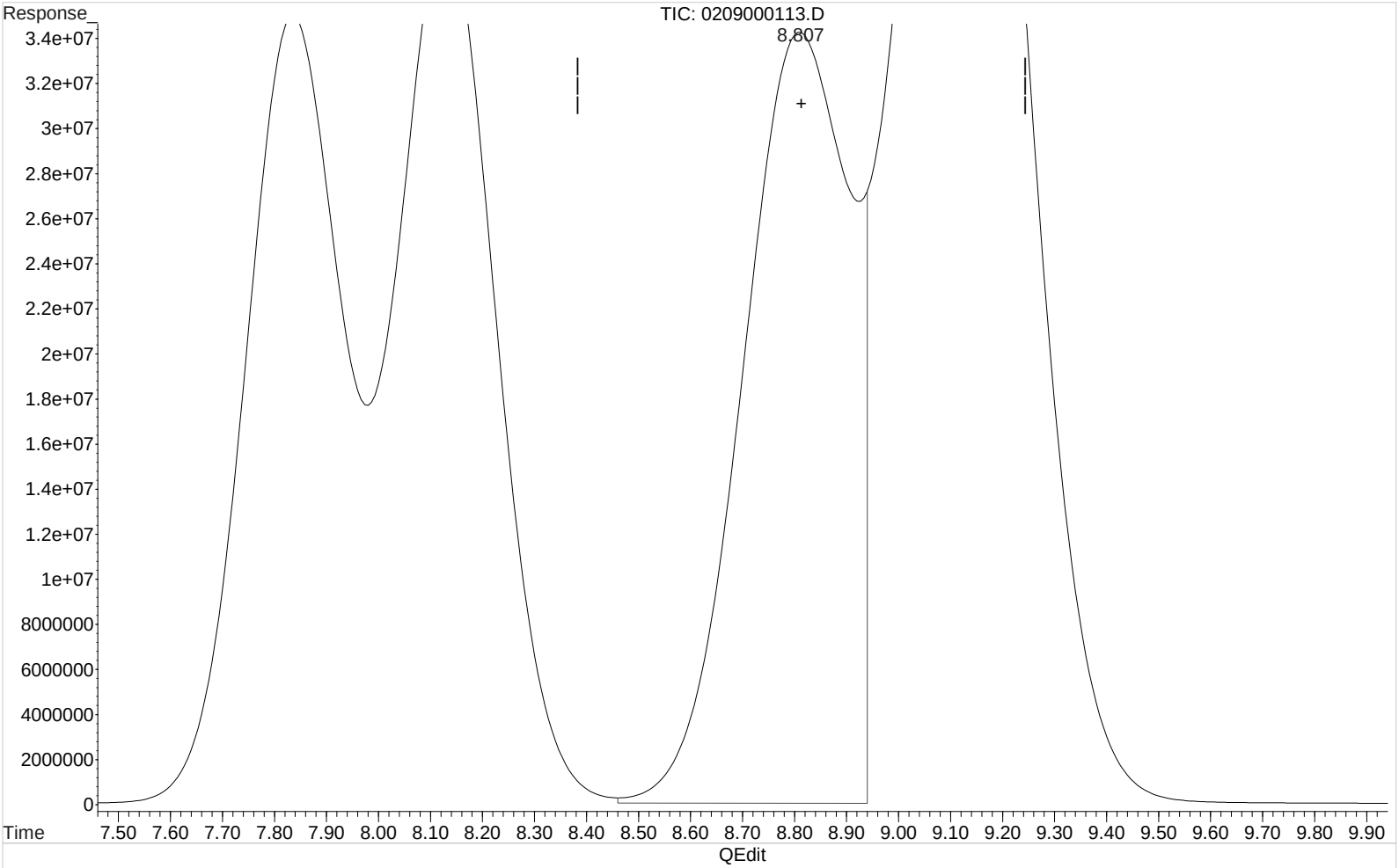
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(12) 2,6-DNT (T)

8.807min 0.000 ug/L

response 500177008

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

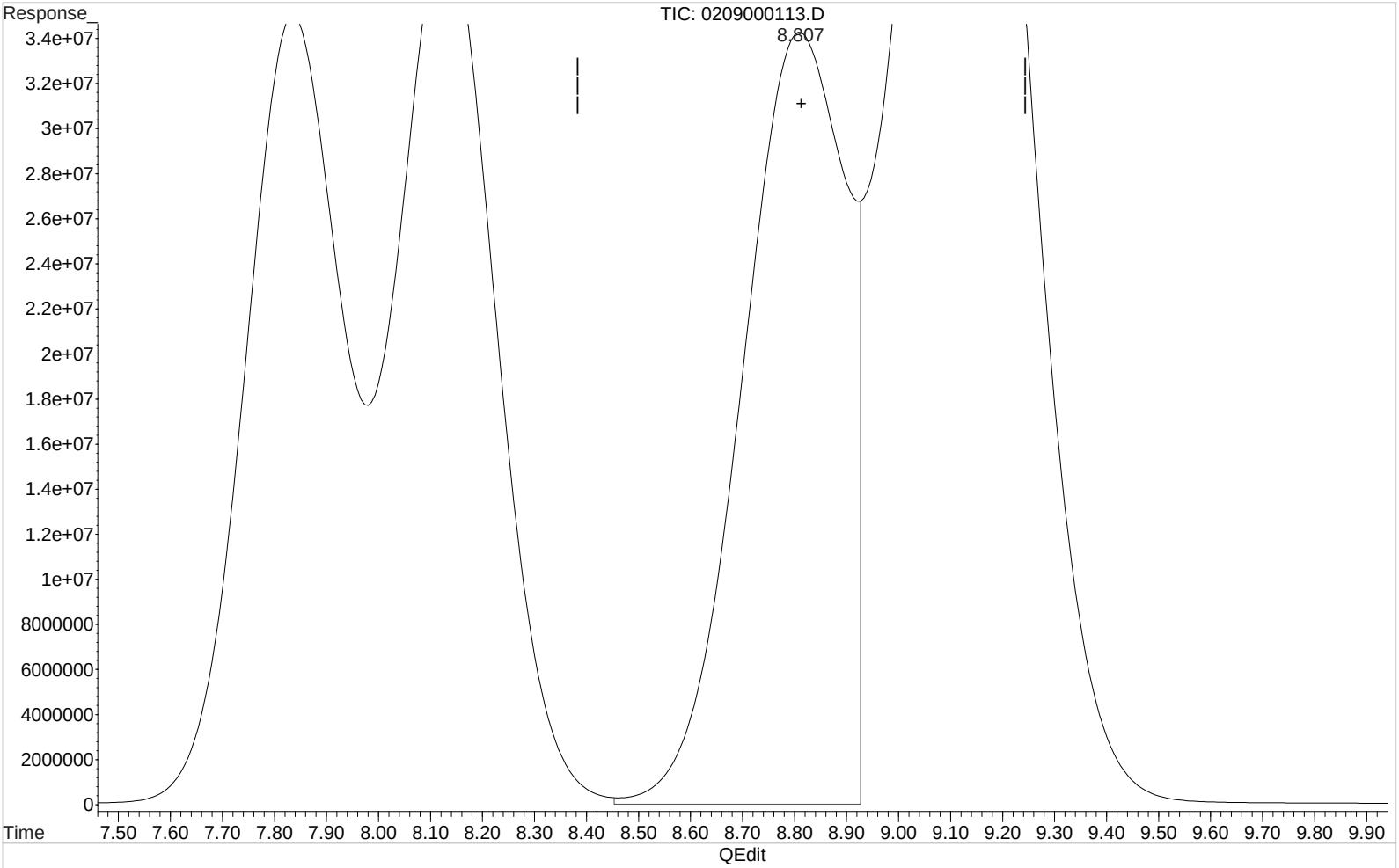
Quantitation Report (Qedit)

(b) (6)
1st 02/13/17
2n 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(12) 2,6-DNT (T)

8.807min 0.000 ug/L m

response 479930654

Manual Integration:

After

BLC

02/13/17

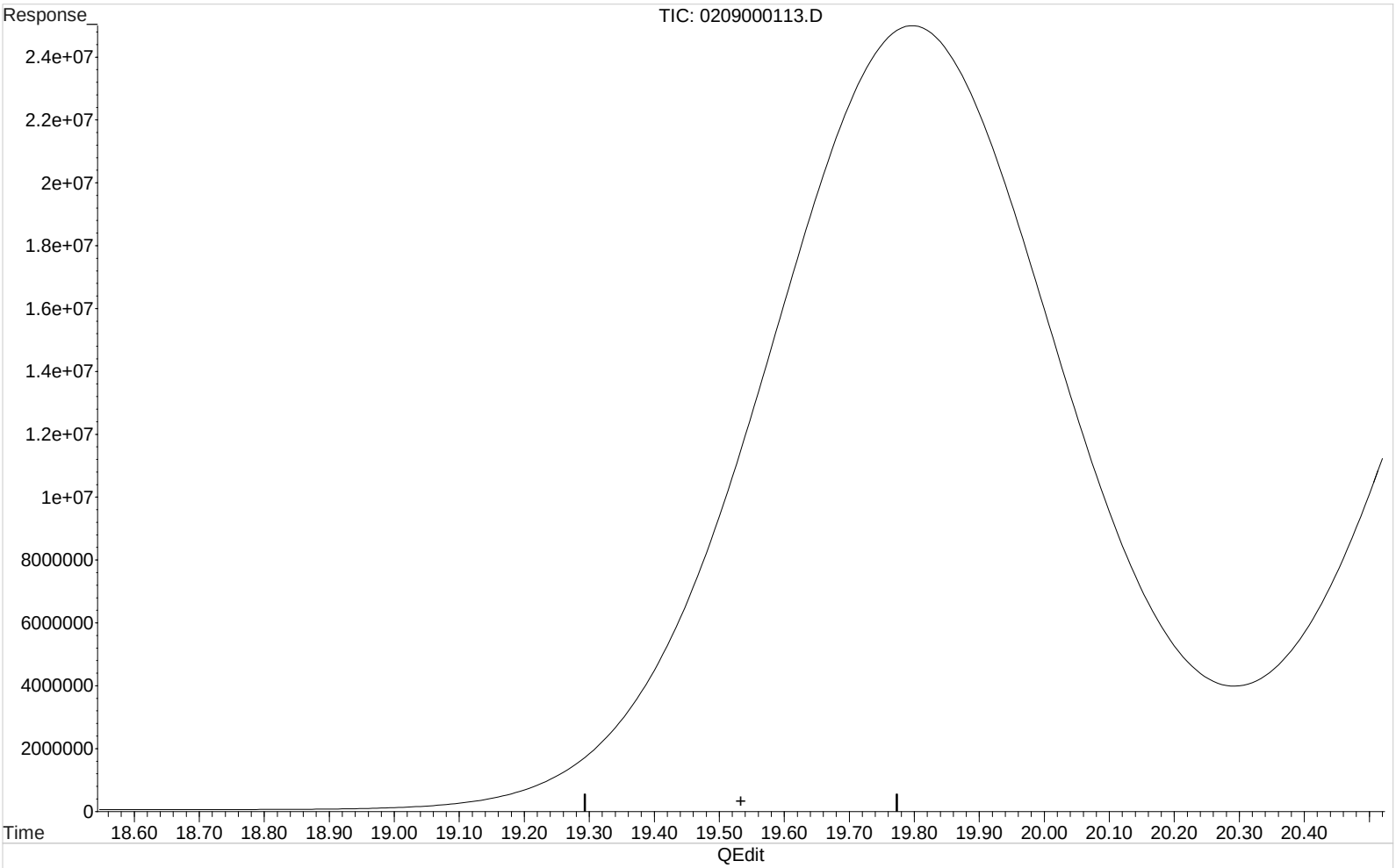
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(15) 1,3,5-TNB (T)

19.533min 0.000 ug/L

response 0

Manual Integration:

Before

02/13/17

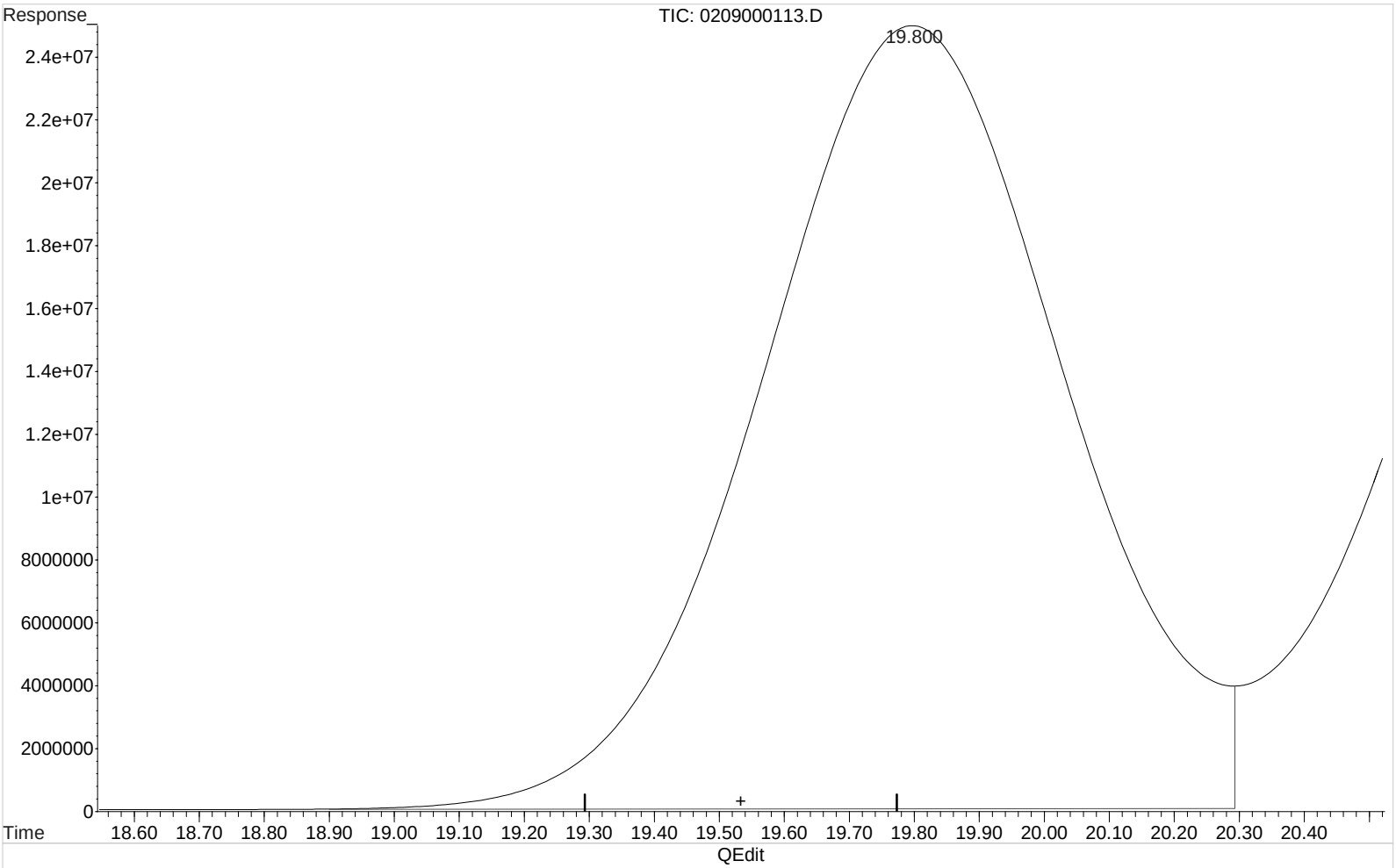
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(15) 1,3,5-TNB (T)

19.800min 0.000 ug/L m

response 805109064

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

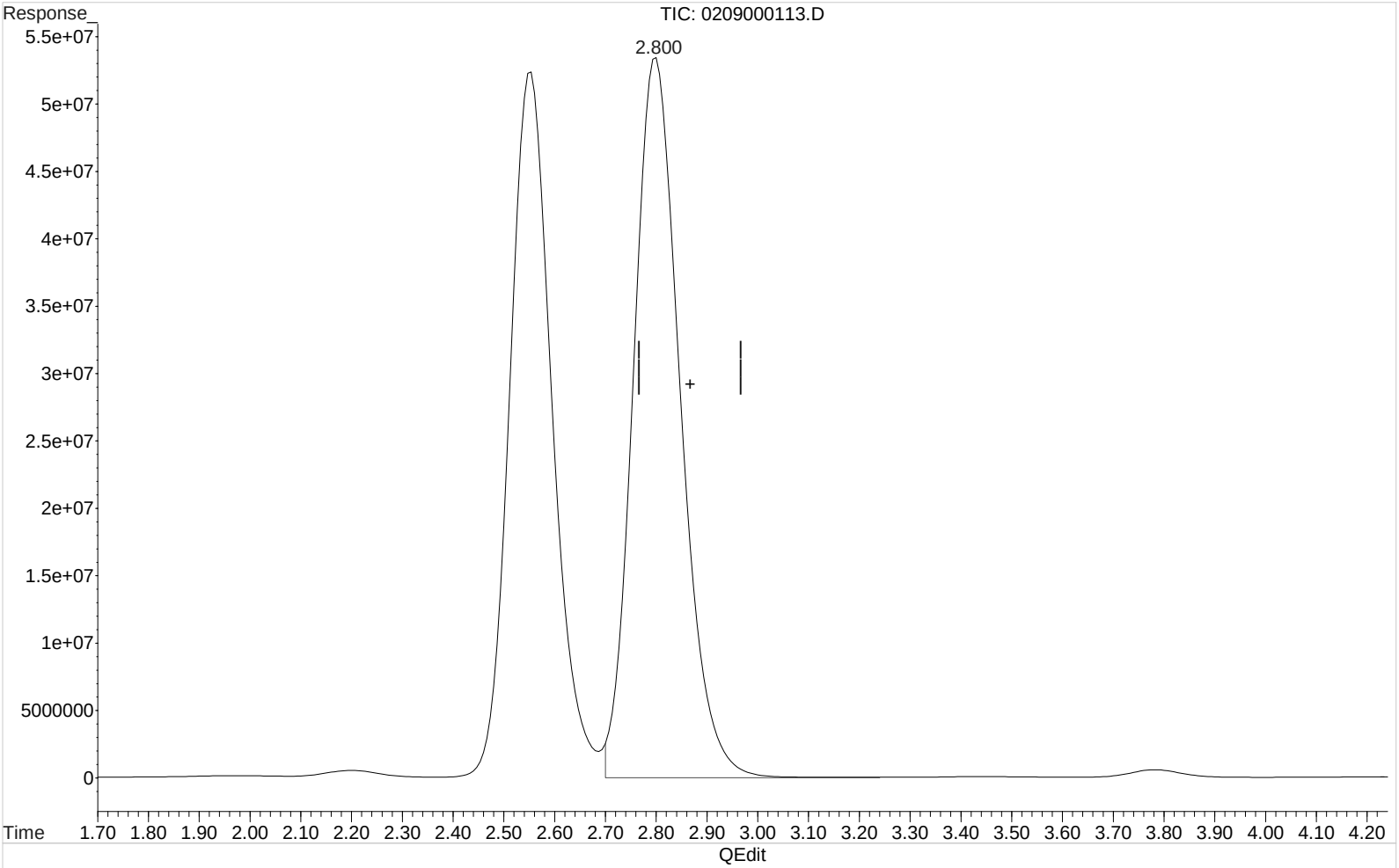
Quantitation Report (Qedit)

(b) (6)
1st 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:19 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(2) RDX (T)

2.800min 0.000 ug/L

response 343726550

Manual Integration:

Before

02/13/17

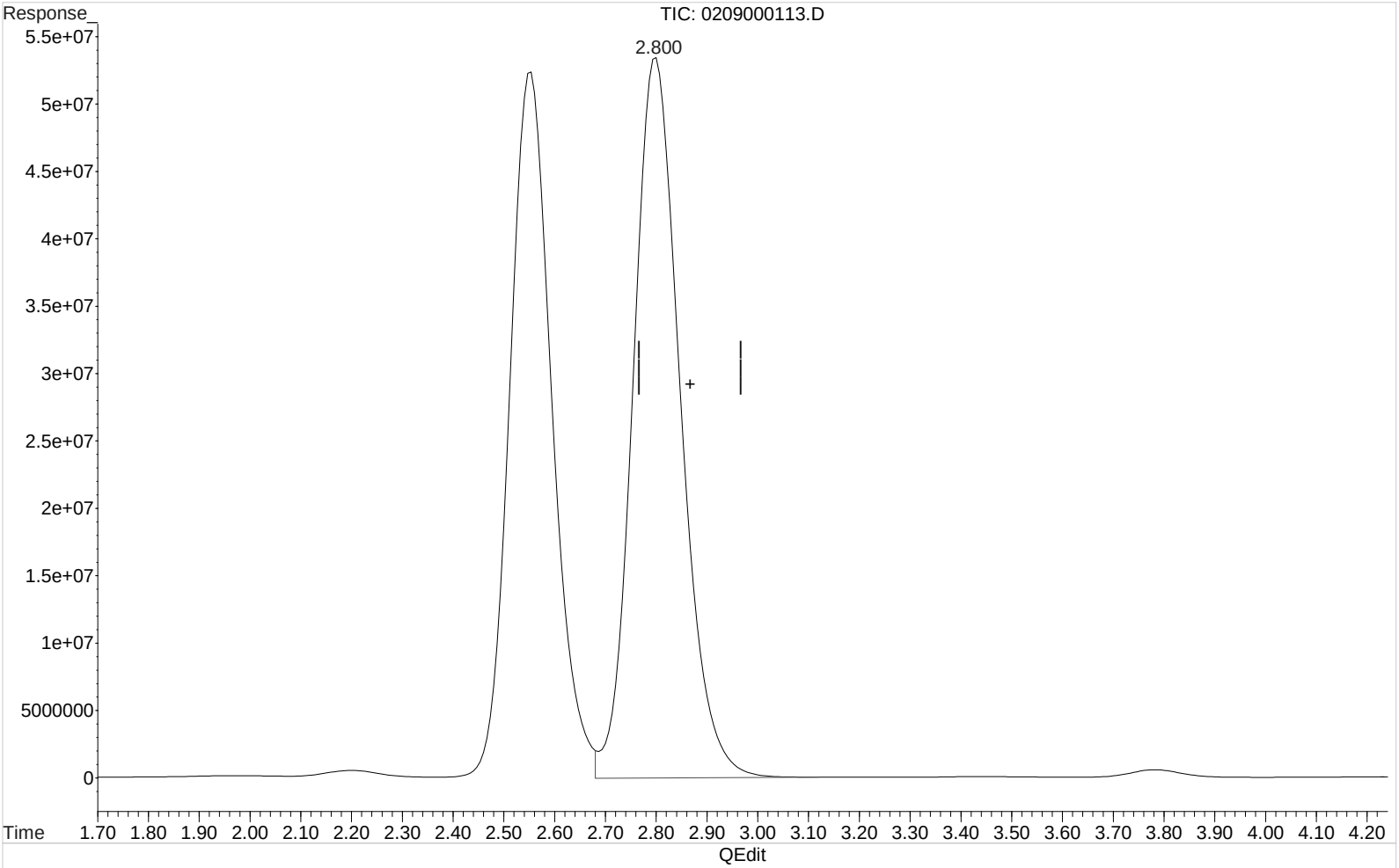
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:19 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.800min 0.000 ug/L m

response 346502613

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

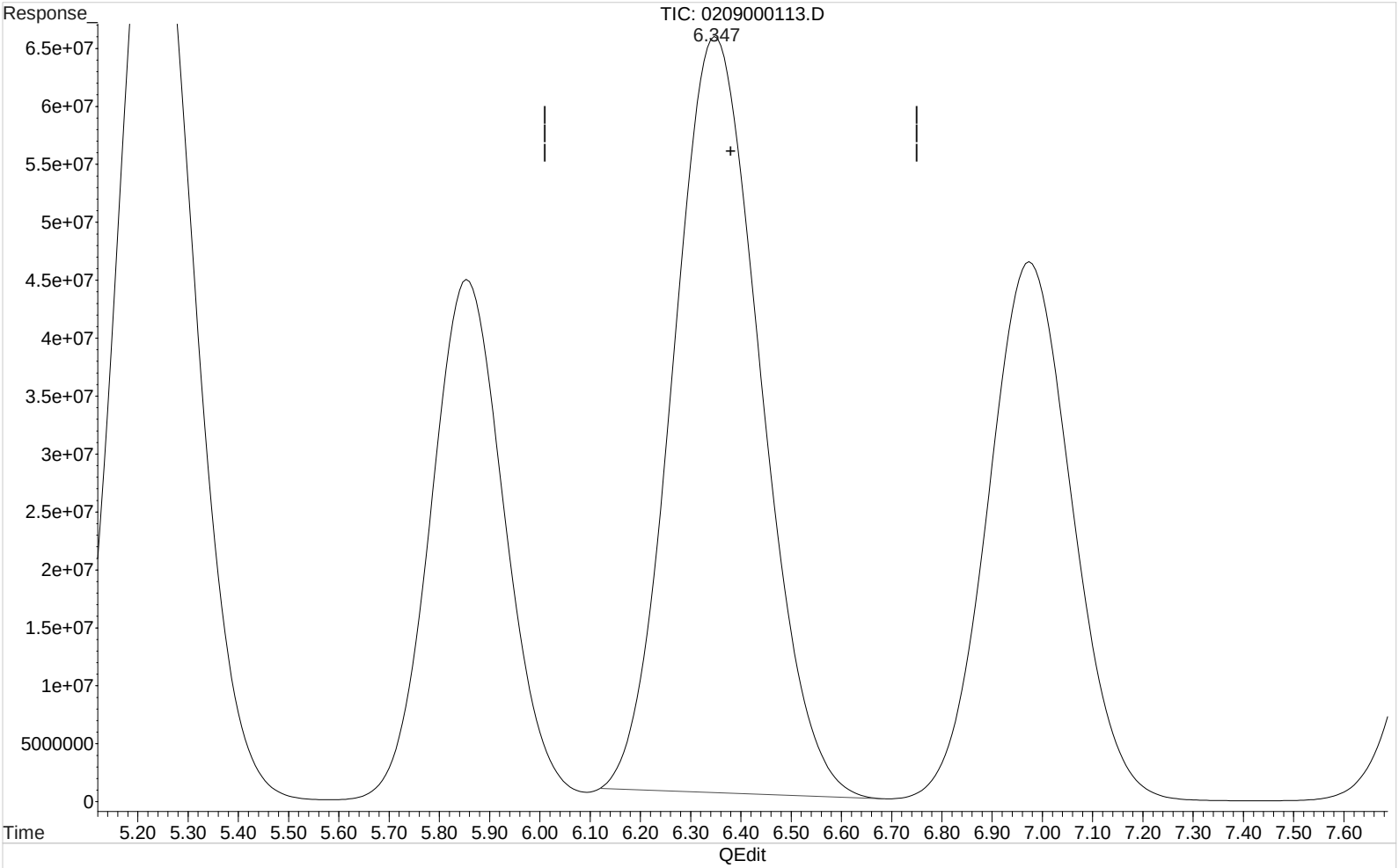
Quantitation Report (Qedit)

(b) (6)
1st 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.347min 0.000 ug/L

response 793832791

Manual Integration:

Before

02/13/17

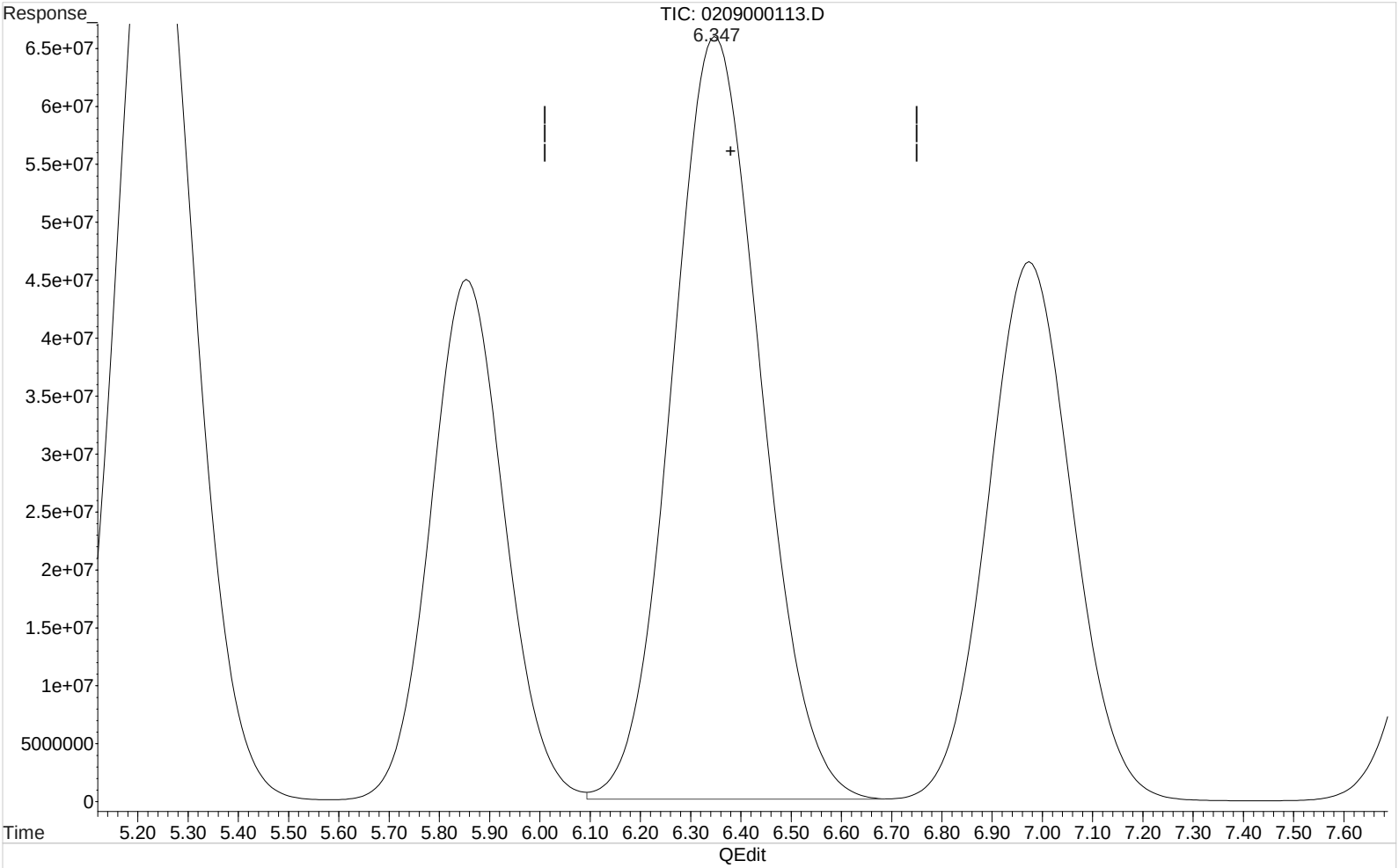
(+) = Expected Retention Time

1st (b) (6) 02/13/17
2nd [redacted] 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.347min 0.000 ug/L m

response 811004098

Manual Integration:

After

BLC

02/13/17

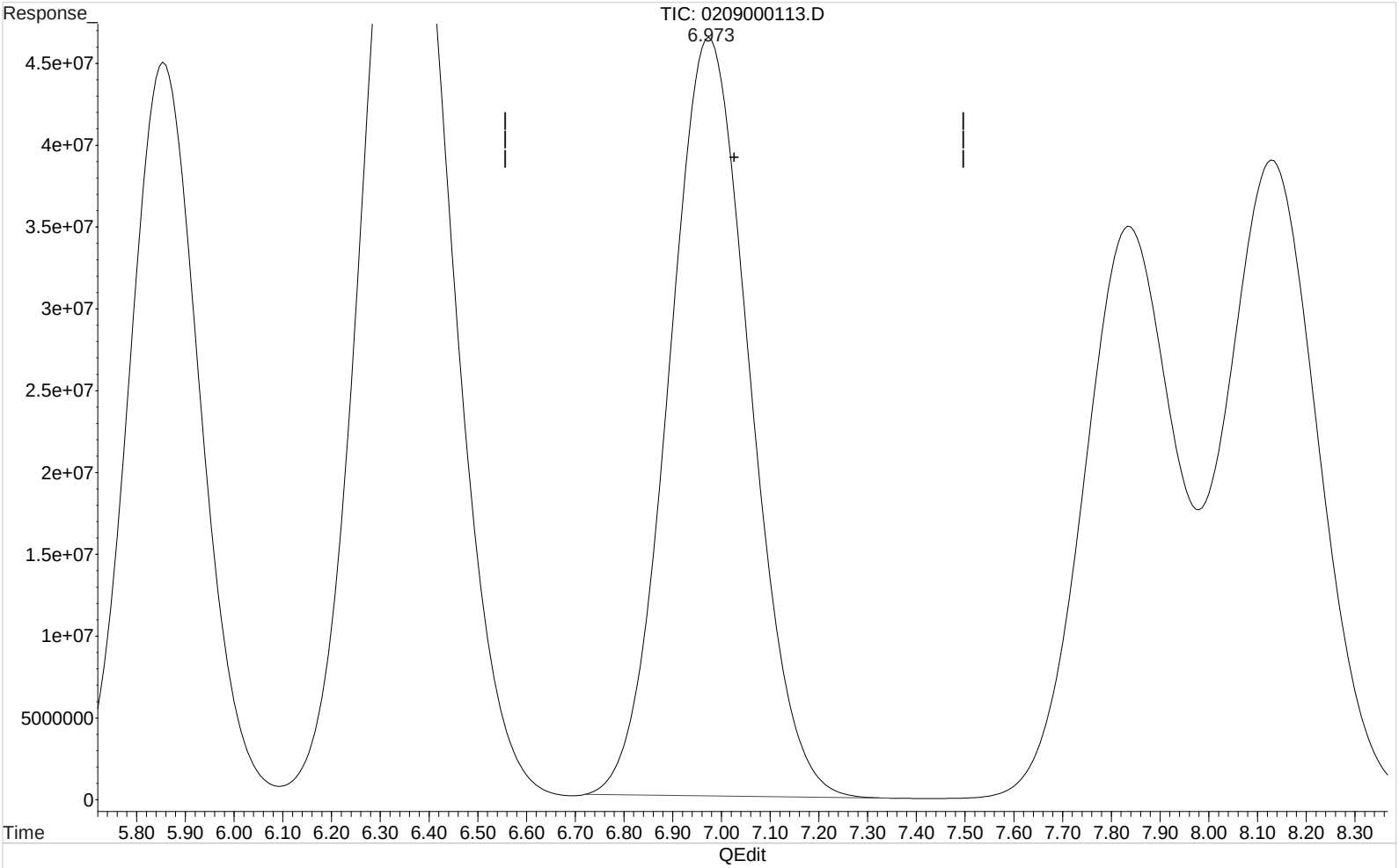
(+) = Expected Retention Time

(b) (6)
1st 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(8) 3-NT (T)

6.973min 0.000 ug/L

response 539697946

Manual Integration:

Before

02/13/17

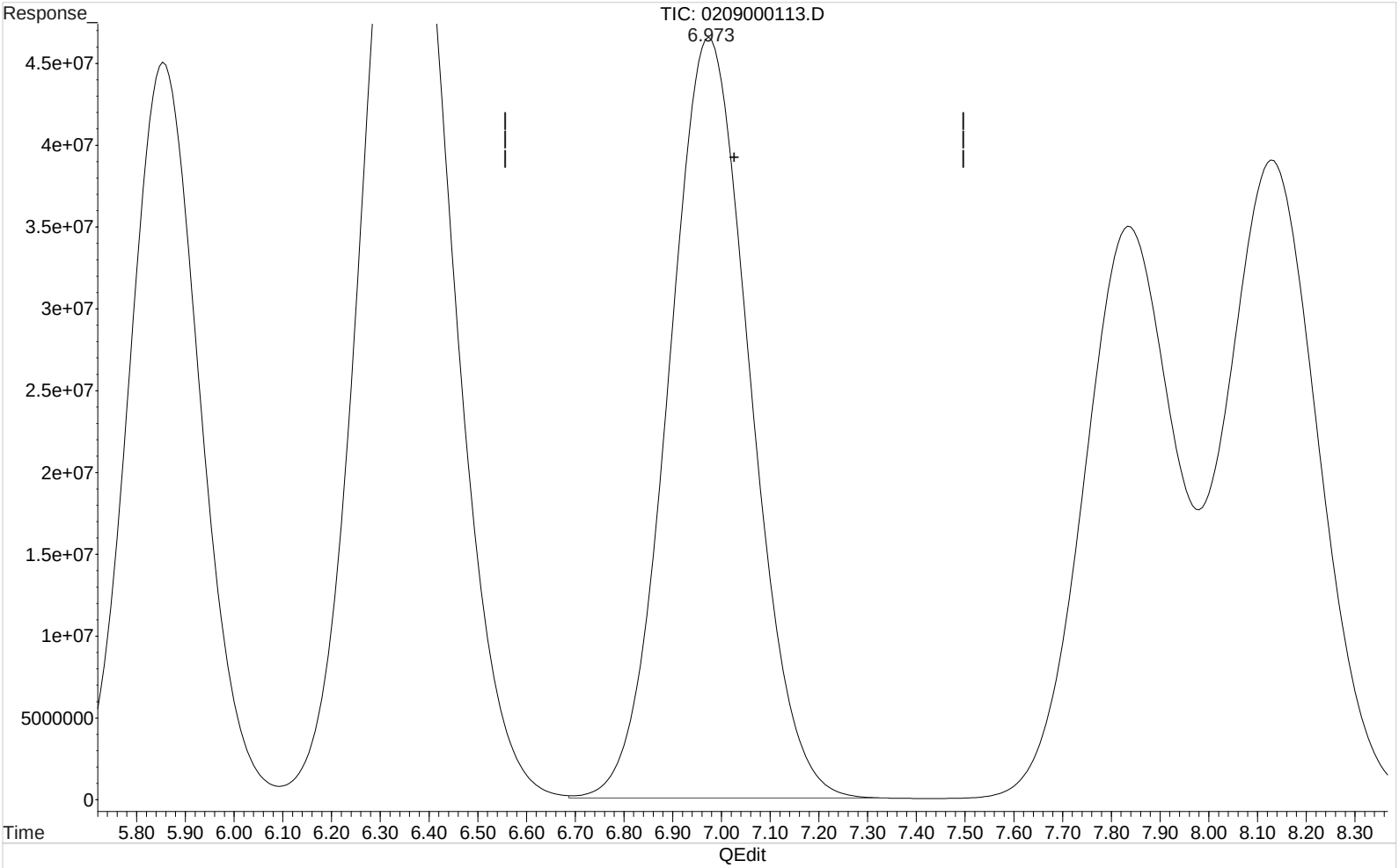
(+) = Expected Retention Time

1st (b) (6) 02/13/17
2nd [redacted] 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(8) 3-NT (T)

6.973min 0.000 ug/L m

response 543775210

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

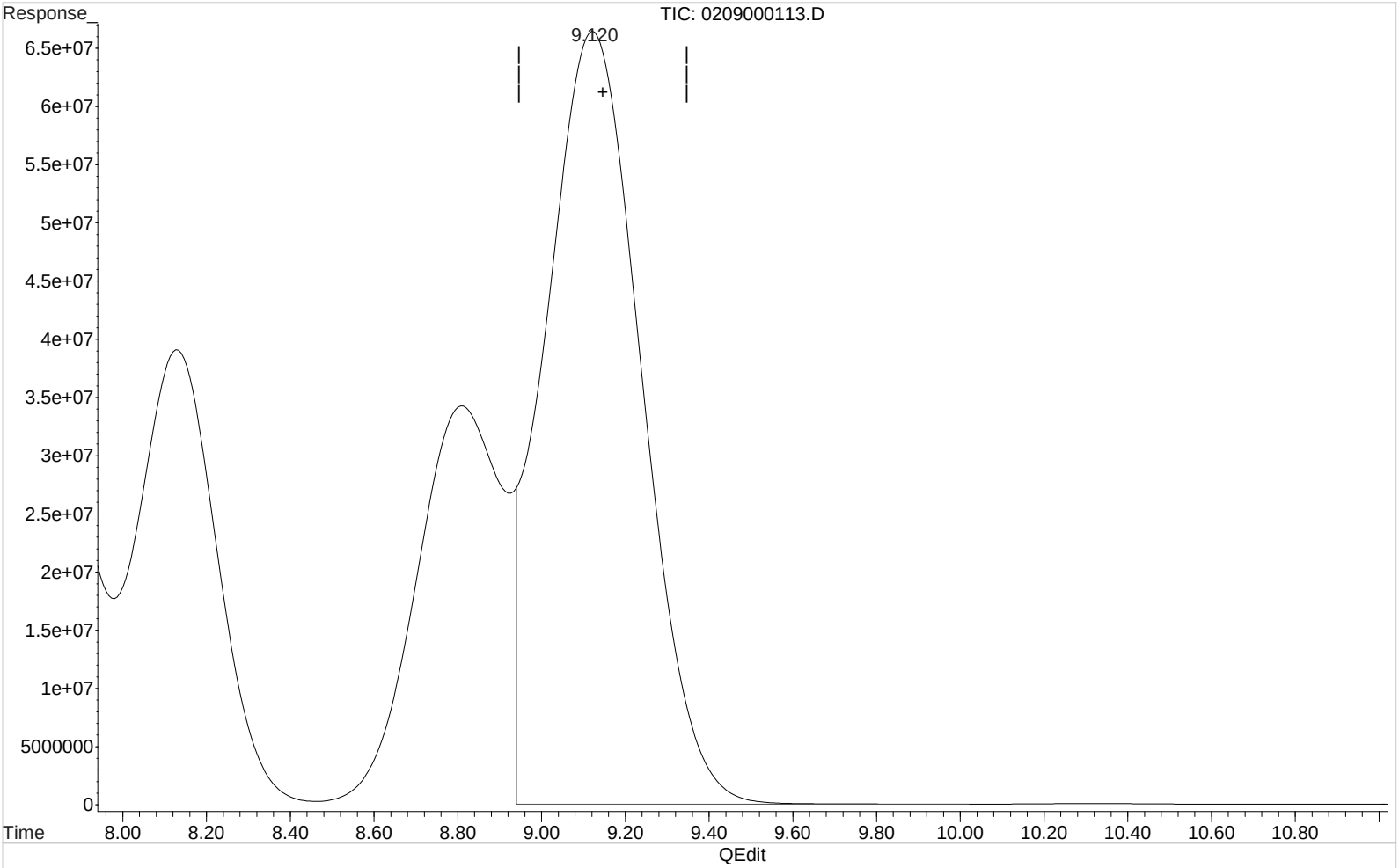
Quantitation Report (Qedit)

(b) (6)
1st 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(9) 1,3-DNB (T)

9.120min 0.000 ug/L

response 1060177232

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

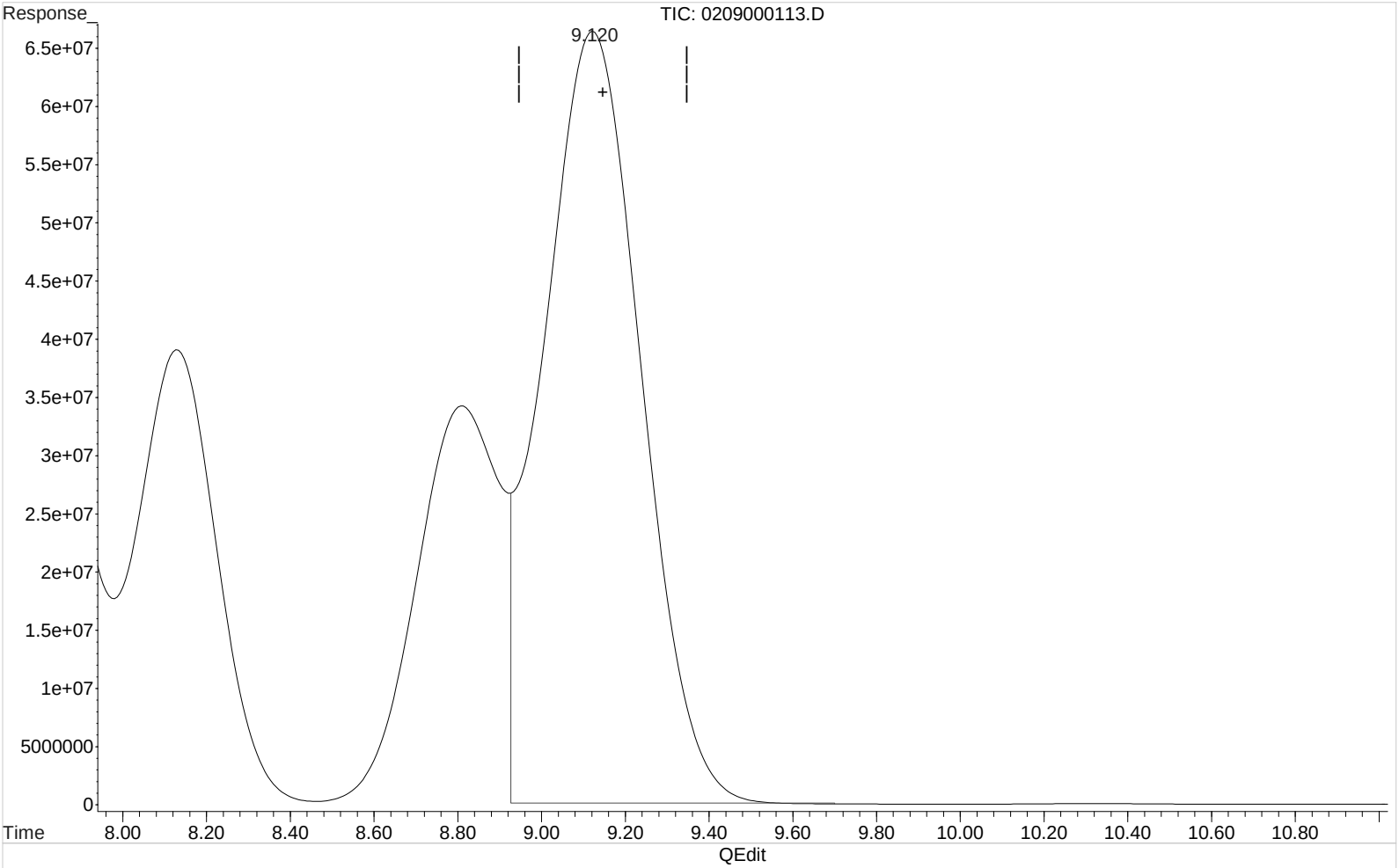
Quantitation Report (Qedit)

(b)(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(9) 1,3-DNB (T)

9.120min 0.000 ug/L m

response 1077373089

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000114.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:09:06 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:23:50 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
11) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
	Target Compounds					
1) T	HMX	0.000	0	N.D.	ug/L	
2) T	RDX	0.000	0	N.D.	ug/L	
3) T	Nitrobenzene	0.000	0	N.D.	ug/L	
4) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L	
5) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L	d
6) T	2-NT	0.000	0	N.D.	ug/L	d
7) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L	d
8) T	3-NT	0.000	0	N.D.	ug/L	d
9) T	1,3-DNB	0.000	0	N.D.	ug/L	
10) T	4-NT	0.000	0	N.D.	ug/L	d
12) T	2,6-DNT	0.000	0	N.D.	ug/L	d
13) T	2,4-DNT	0.000	0	N.D.	ug/L	d
14) T	Tetryl	0.000	0	N.D.	ug/L	d
15) T	1,3,5-TNB	0.000	0	N.D.	ug/L	
16) T	2,4,6-TNT	0.000	0	N.D.	ug/L	

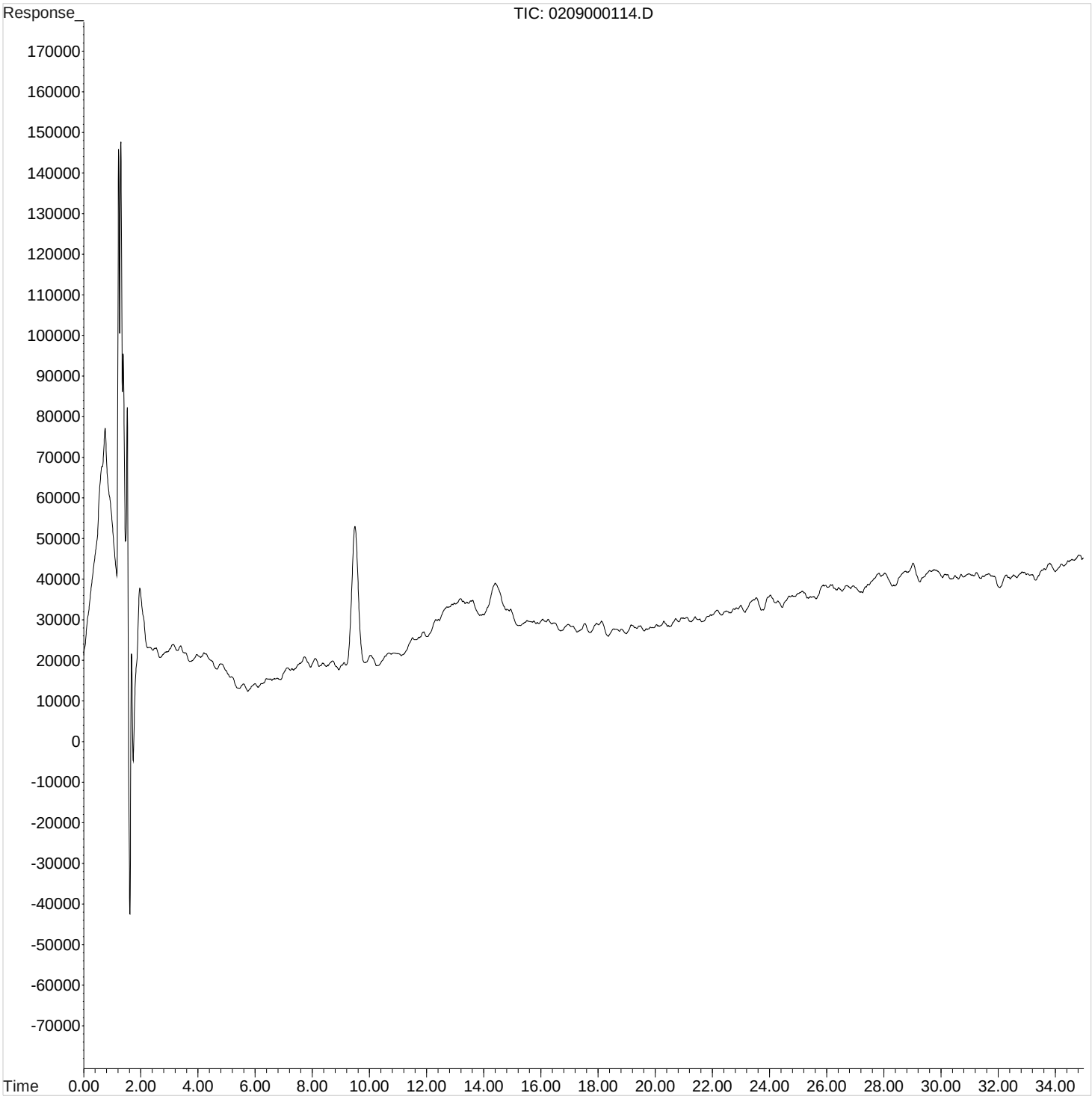
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000114.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:09:06 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:23:50 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:22:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
11) S	1-Chloro-3-Nitrobenzene	8.127	24836791	943.788	ug/L	
	Target Compounds					
1) T	HMX	2.553	15189672	974.540	ug/L	
2) T	RDX	2.800	16803386	903.368	ug/L	m
3) T	Nitrobenzene	4.480	34528657	928.103	ug/L	m
4) T	3,5-Dinitroaniline	5.240	43014873	925.365	ug/L	
5) T	4-Amino-2,6-DNT	4.867	29345653	921.272	ug/L	
6) T	2-NT	5.853	21859915	928.032	ug/L	m
7) T	2-Amino-4,6-DNT	6.353	38582149	914.519	ug/L	m
8) T	3-NT	6.973	25230895	902.935	ug/L	
9) T	1,3-DNB	9.120	51447002	919.544	ug/L	m
10) T	4-NT	7.833	21970507	942.506	ug/L	
12) T	2,6-DNT	8.800	24072617	983.755	ug/L	
13) T	2,4-DNT	14.787	47663620	906.089	ug/L	
14) T	Tetryl	12.960	26728022	910.339	ug/L	
15) T	1,3,5-TNB	19.780	38519494	914.207	ug/L	
16) T	2,4,6-TNT	20.760	35648669	918.724	ug/L	

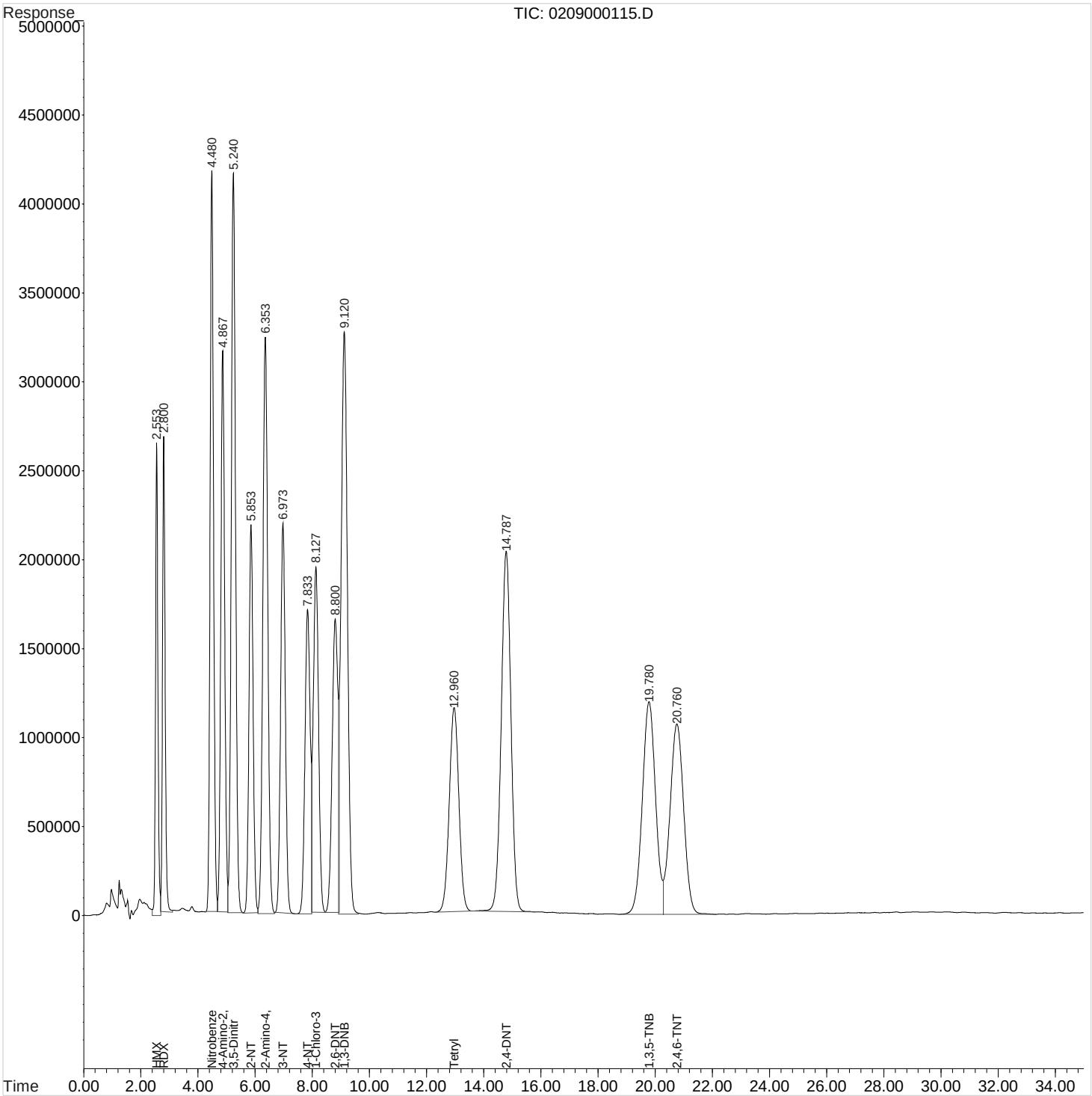
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:22:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



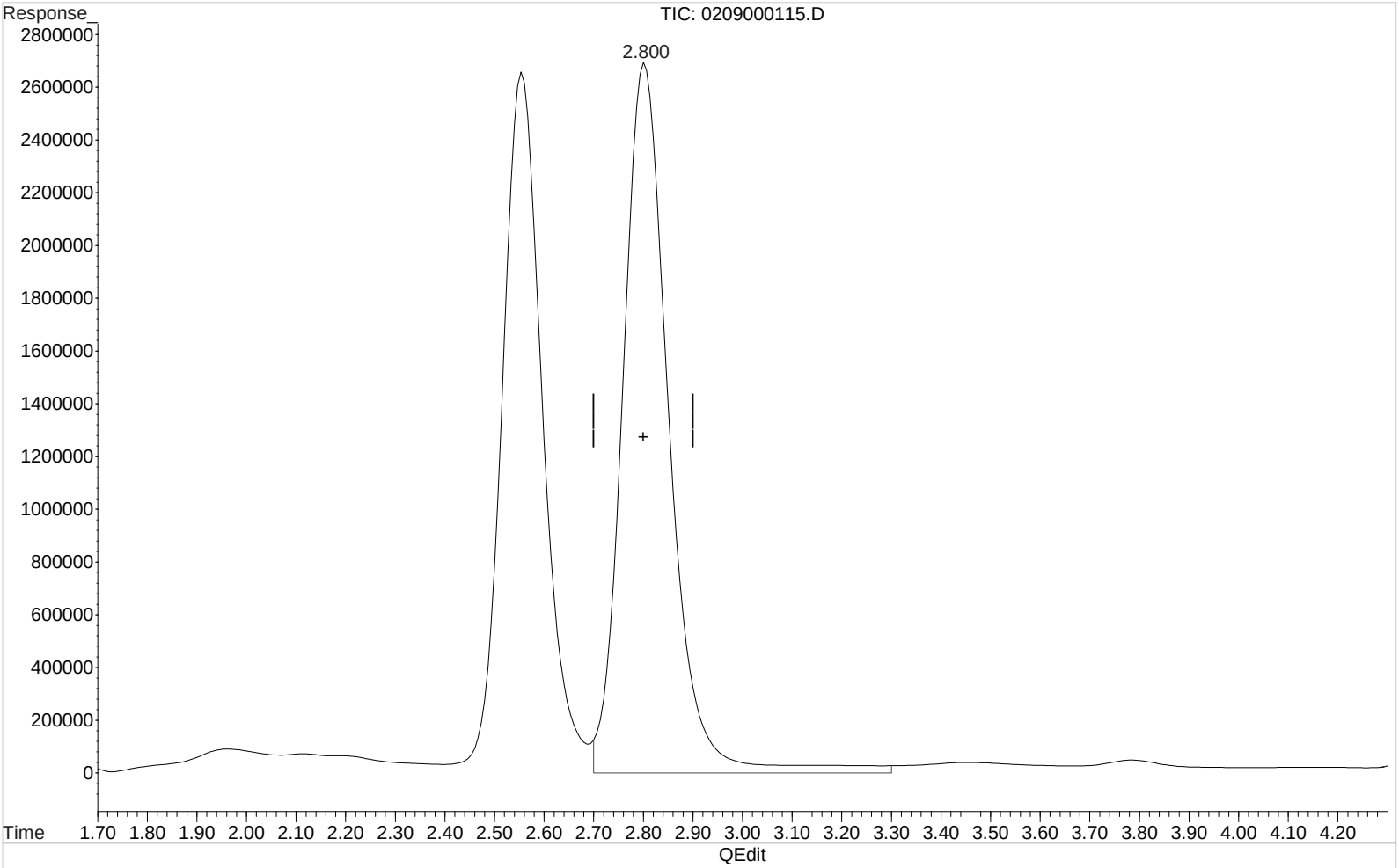
Quantitation Report (Qedit)

(b) (6)
1st [redacted] 02/13/17
2nd [redacted] 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(2) RDX (T)

2.800min 943.070 ug/L

response 17541874

Manual Integration:

Before

02/13/17

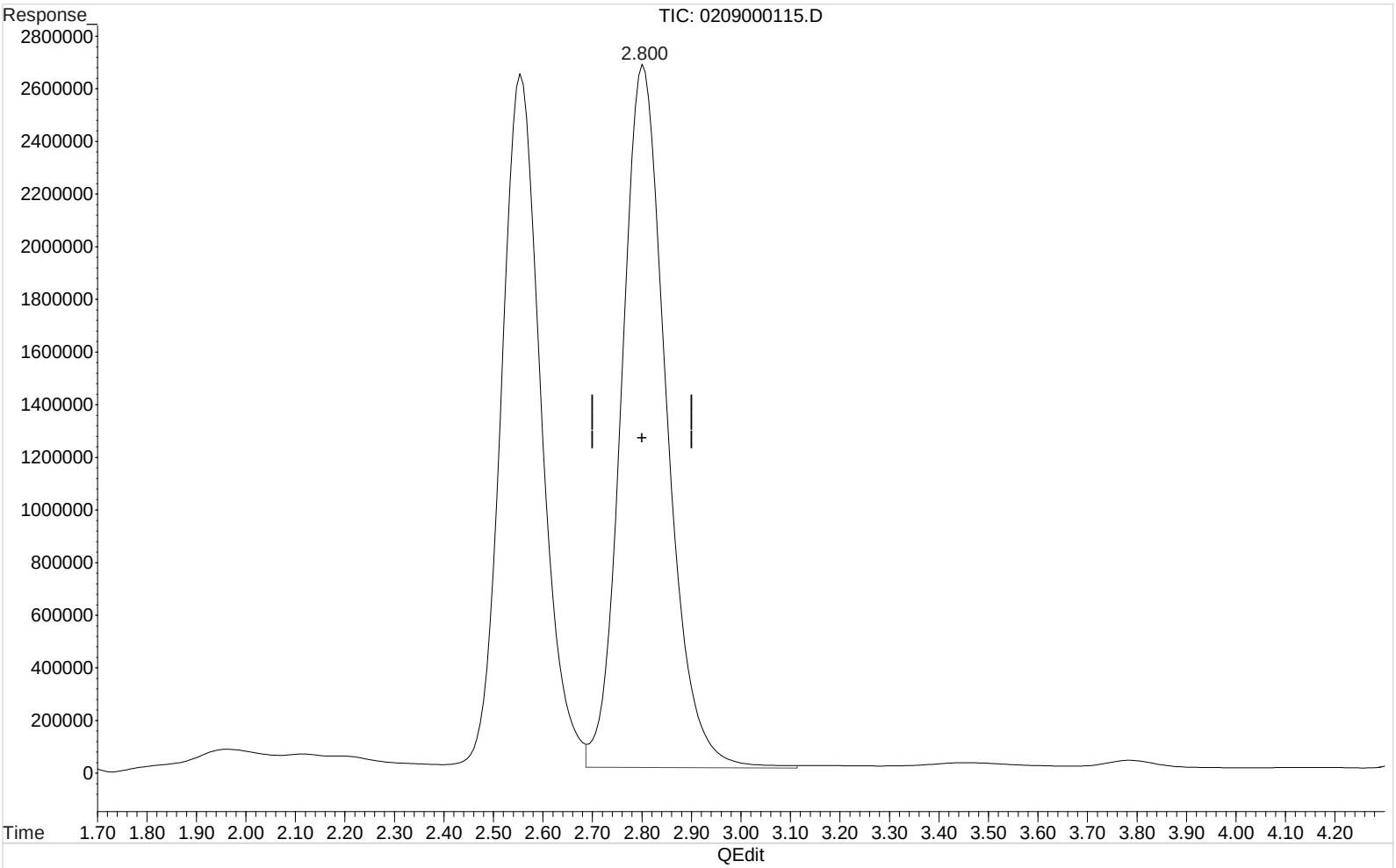
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(2) RDX (T)

2.800min 903.368 ug/L m

response 16803386

Manual Integration:

After

BLC

02/13/17

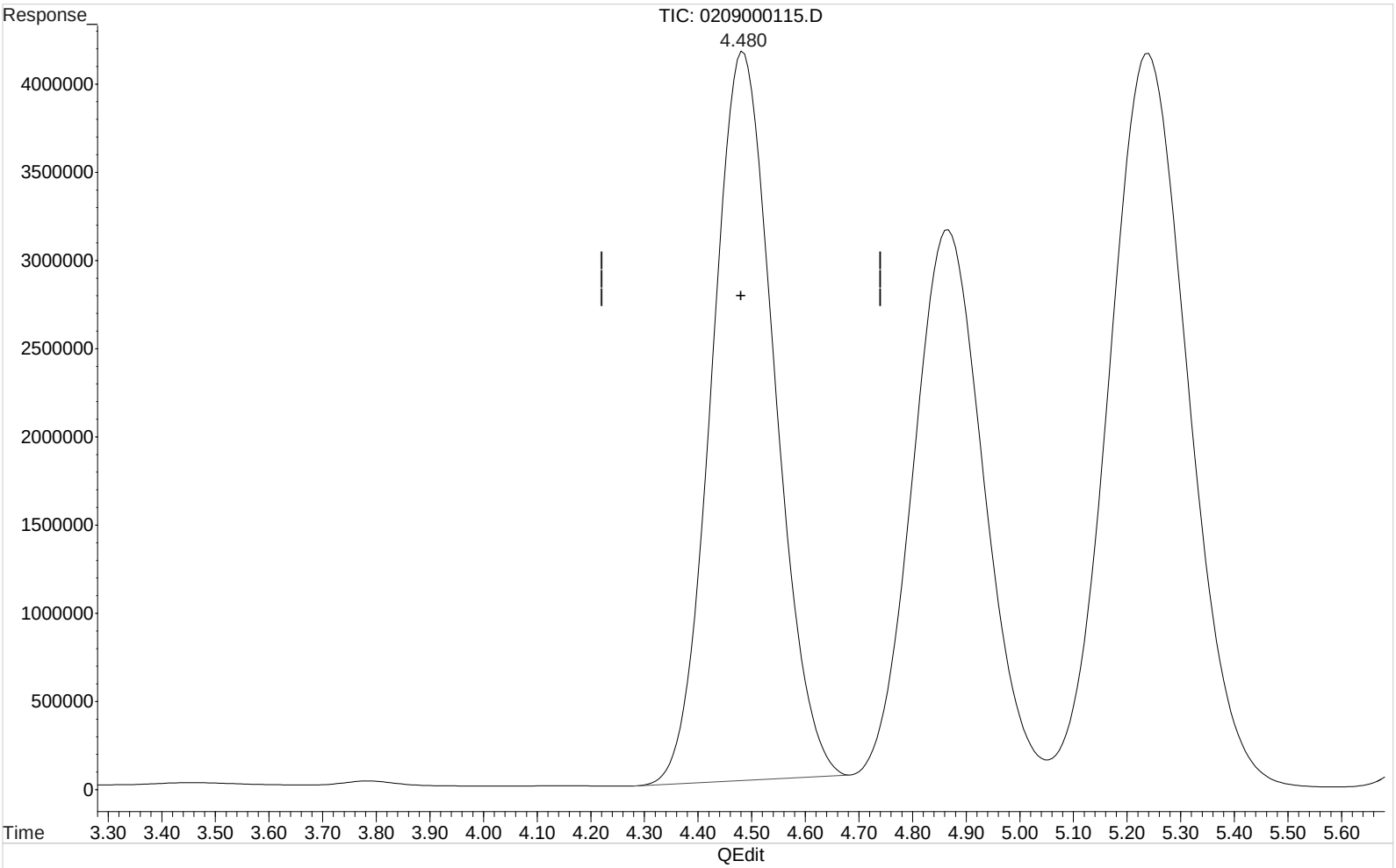
(+) = Expected Retention Time

(b)(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.480min 908.645 ug/L

response 33804752

Manual Integration:

Before

02/13/17

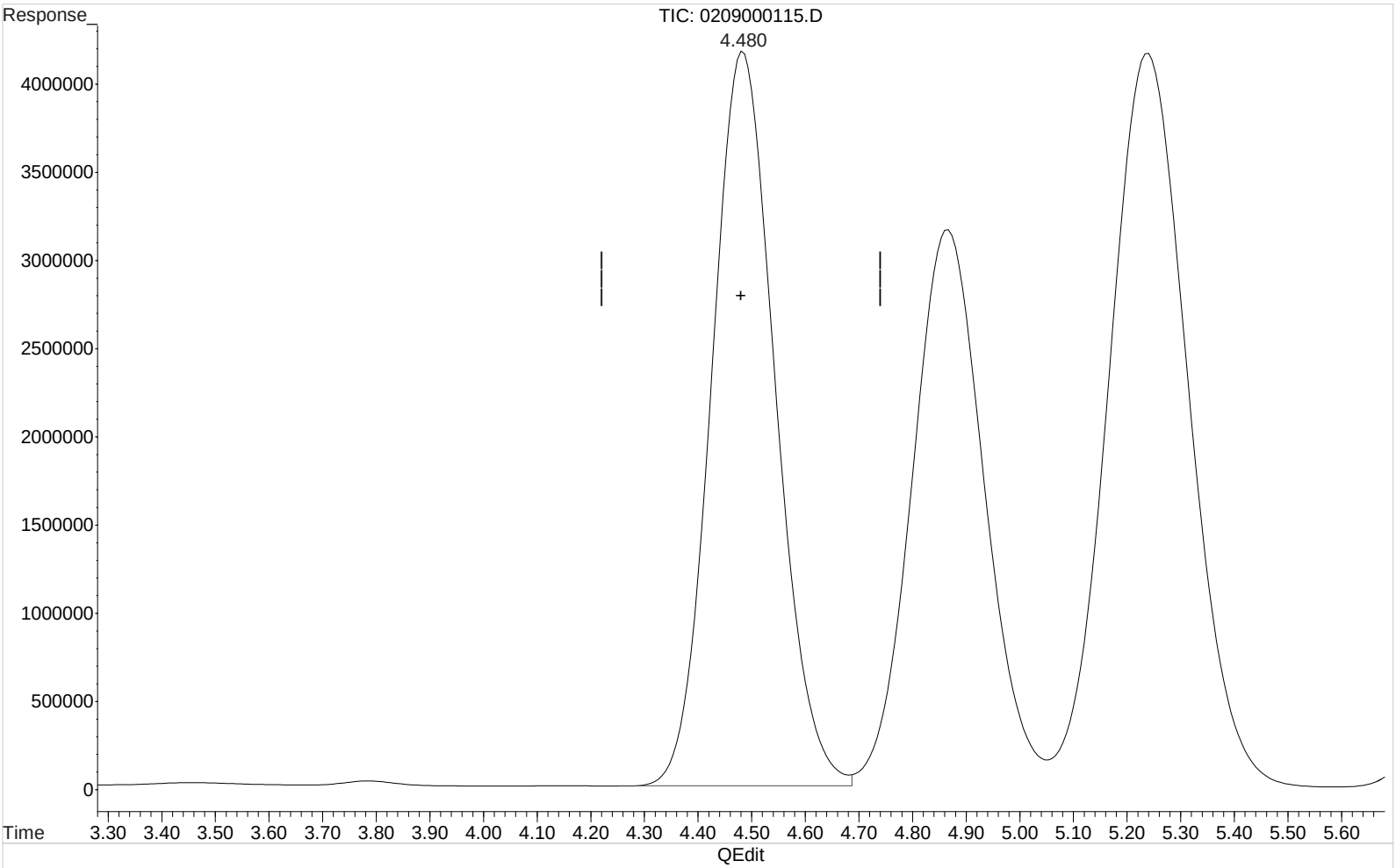
(+) = Expected Retention Time

(b)(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.480min 928.103 ug/L m

response 34528657

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

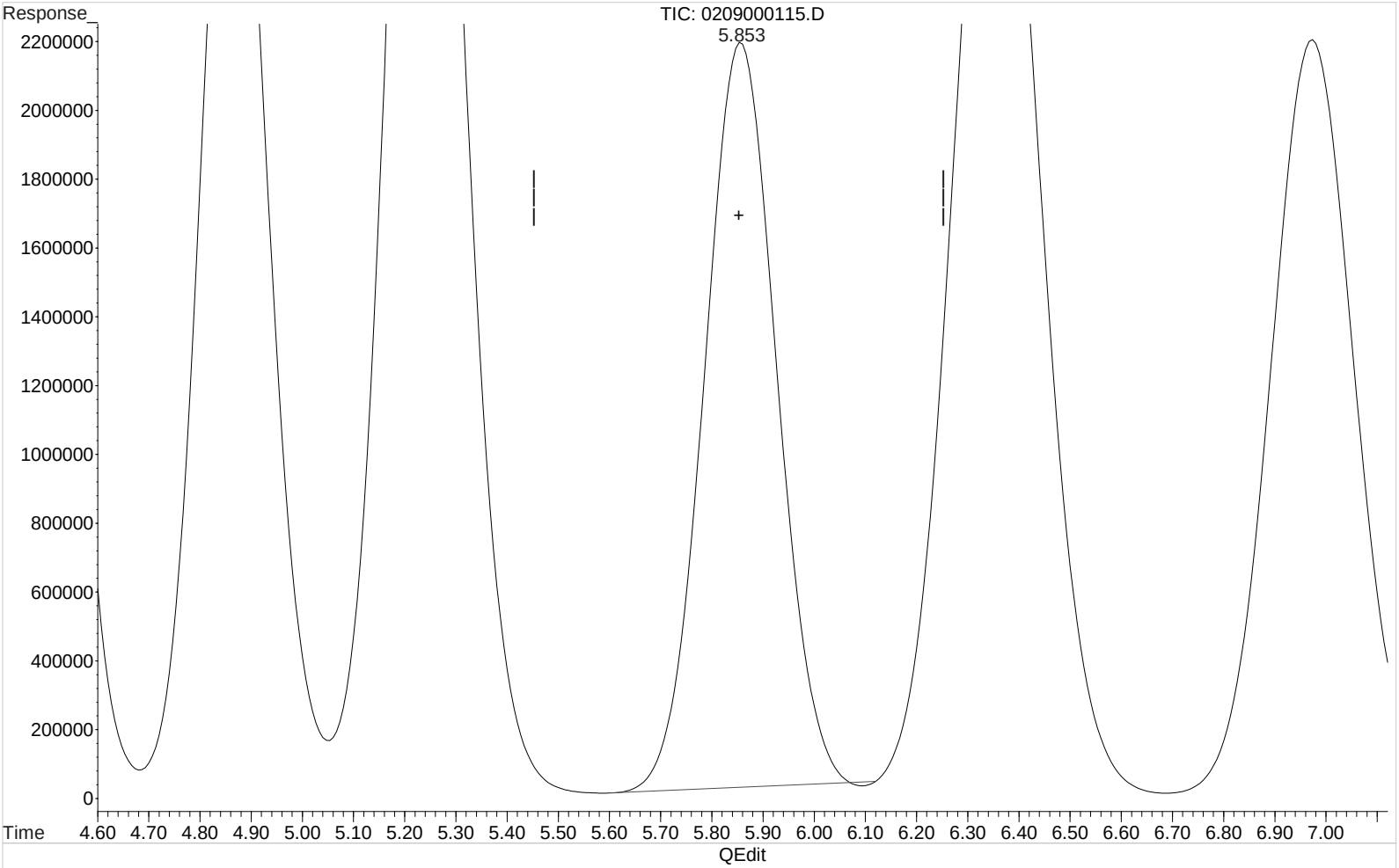
Quantitation Report (Qedit)

1st (b) (6) 2/13/17
2nd [redacted] 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.853min 906.205 ug/L

response 21345796

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

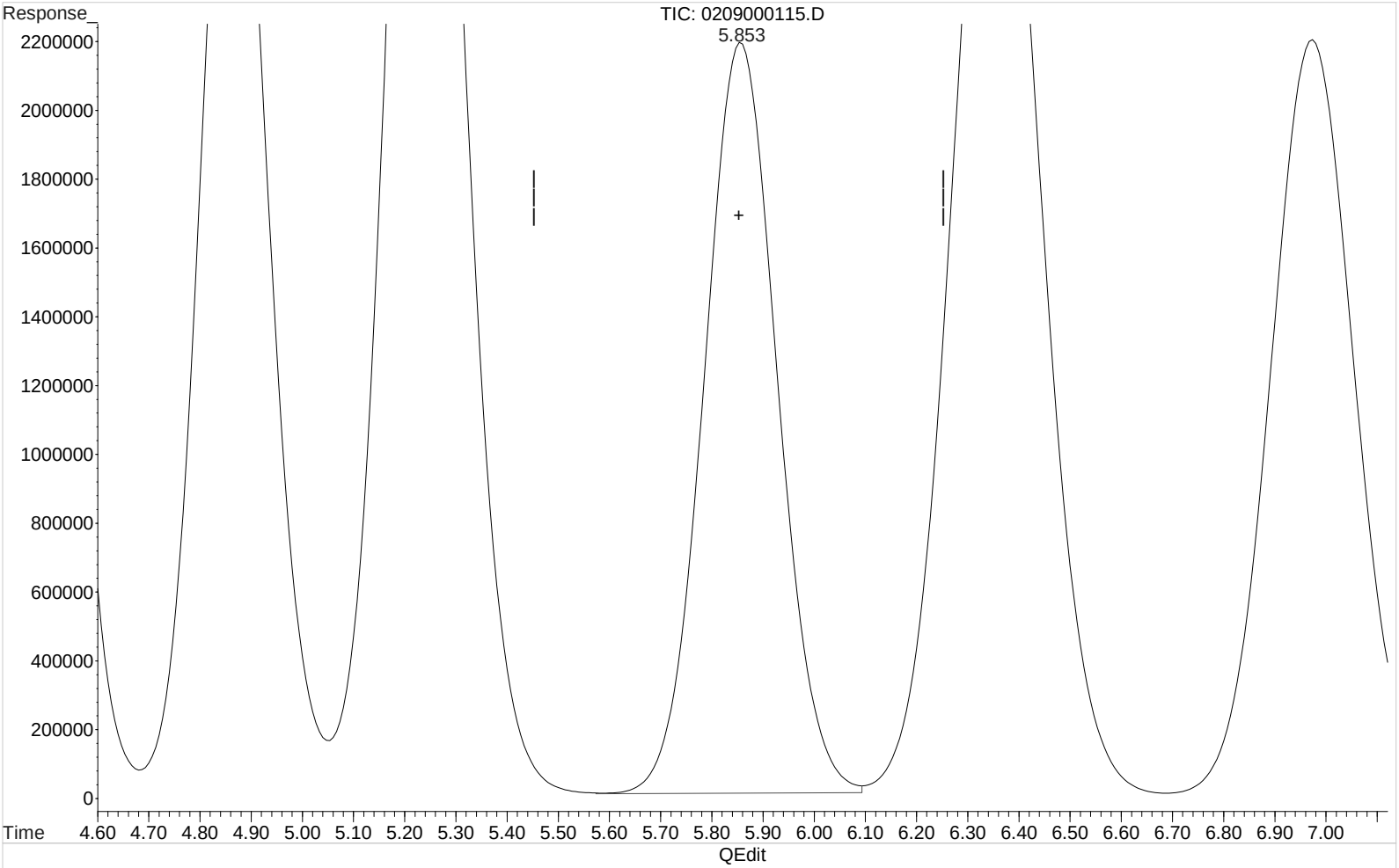
Quantitation Report (Qedit)

(b)
1st (6) 02/13/17
2n(02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.853min 928.032 ug/L m

response 21859915

Manual Integration:

After

BLC

02/13/17

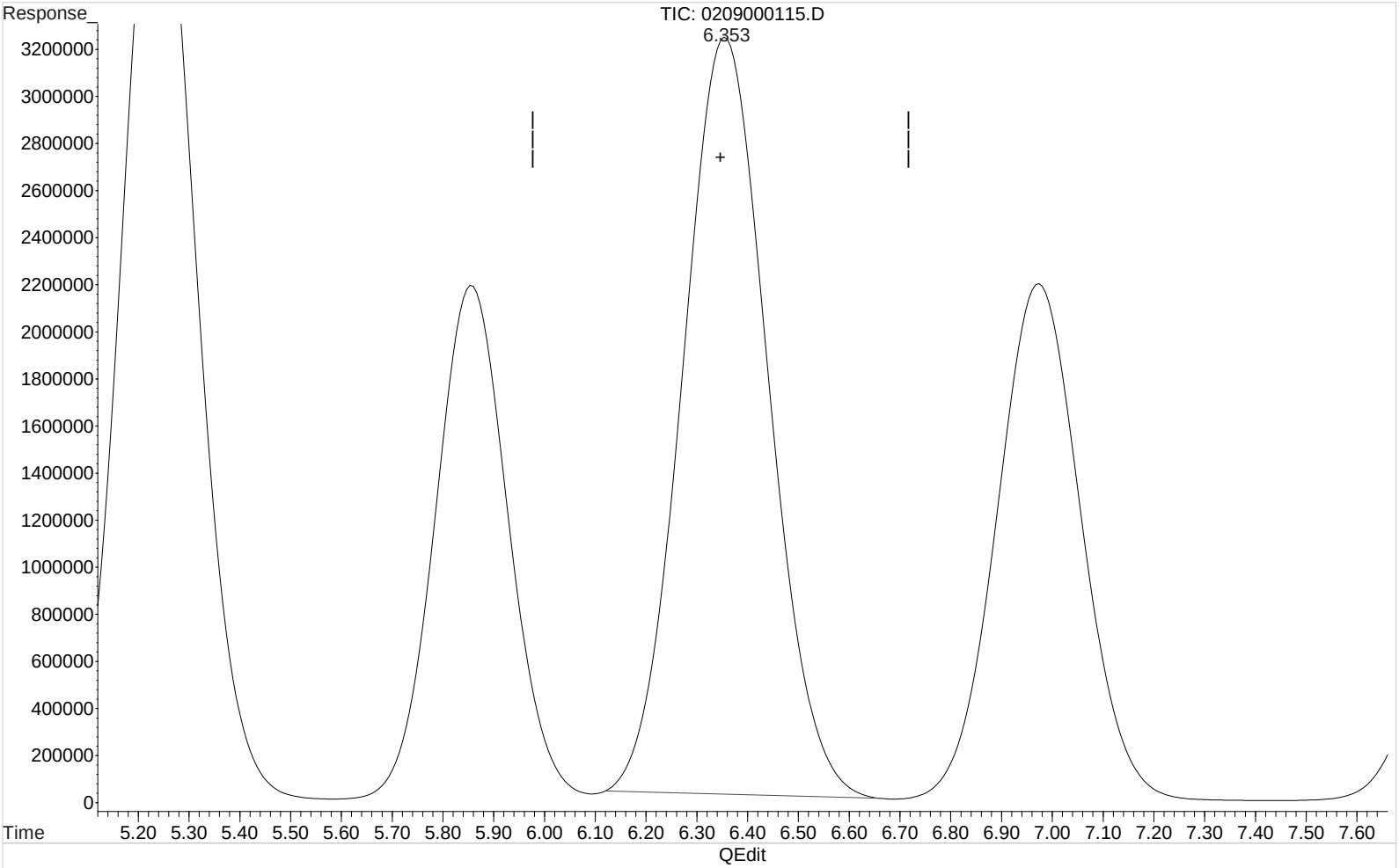
(+) = Expected Retention Time

(b) (6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.353min 895.482 ug/L

response 37779010

Manual Integration:

Before

02/13/17

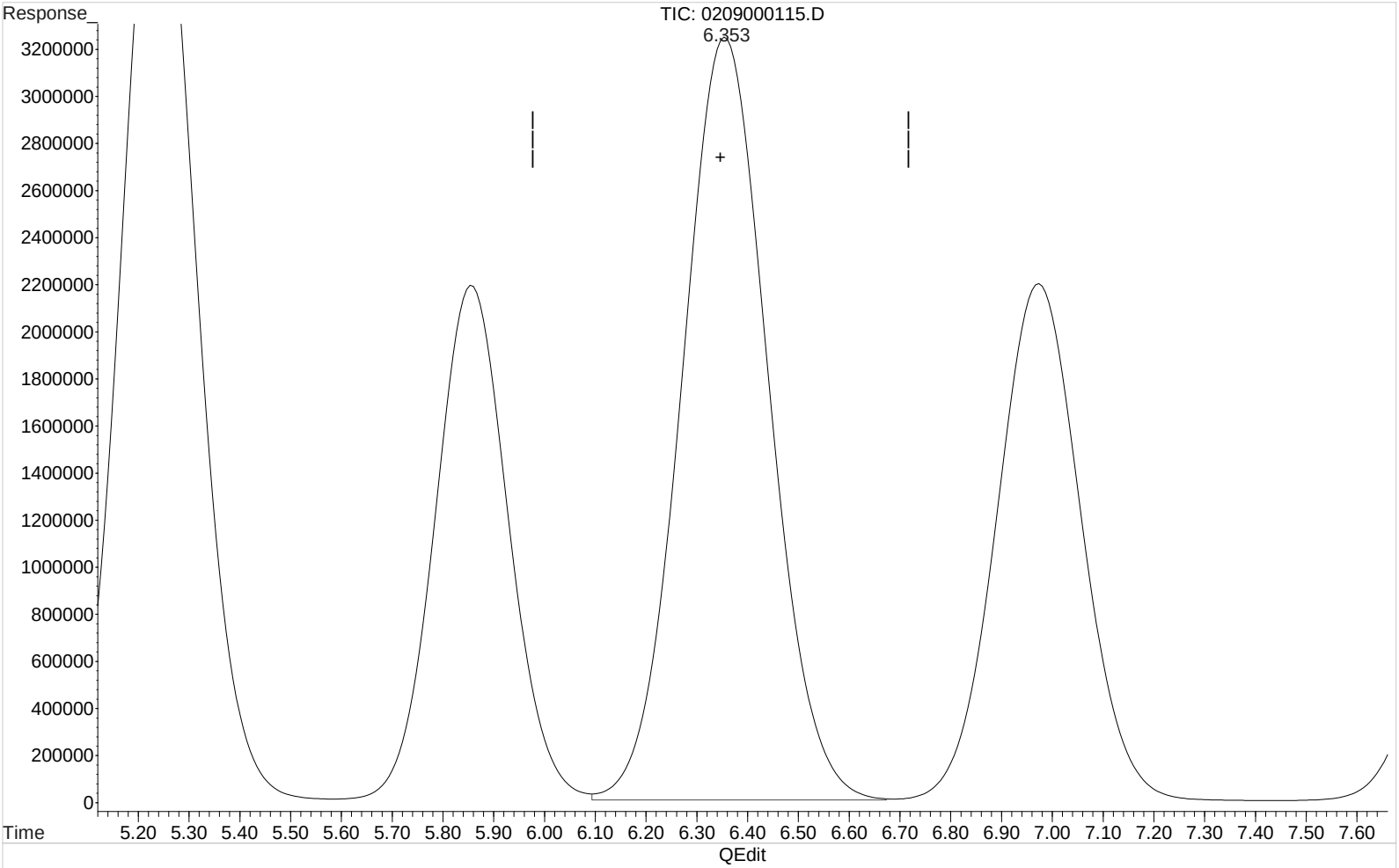
(+) = Expected Retention Time

(b) (6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.353min 914.519 ug/L m

response 38582149

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

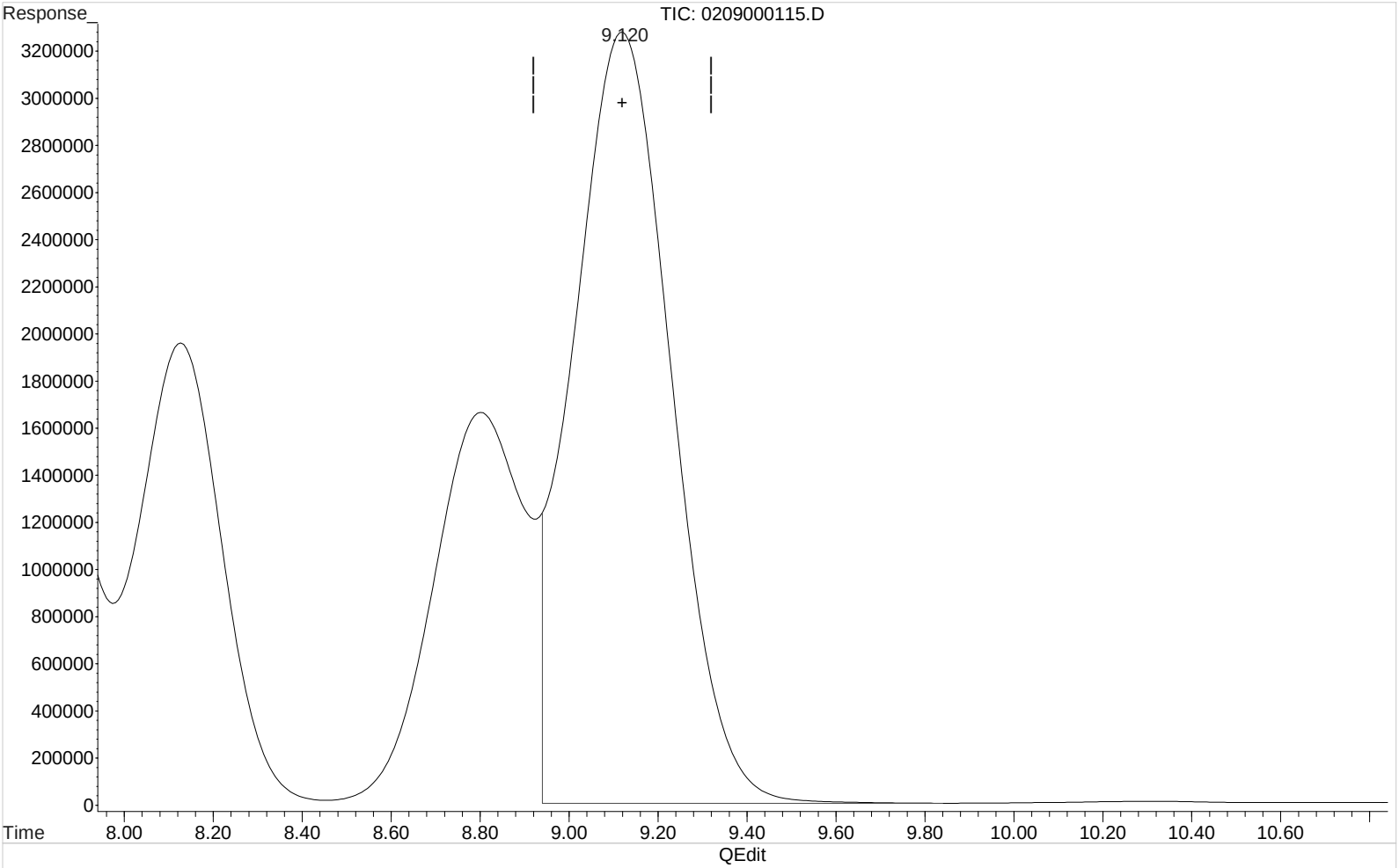
Quantitation Report (Qedit)

(b) (6)
1s 02/13/17
2n 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(9) 1,3-DNB (T)

9.120min 894.233 ug/L

response 50030932

Manual Integration:

Before

02/13/17

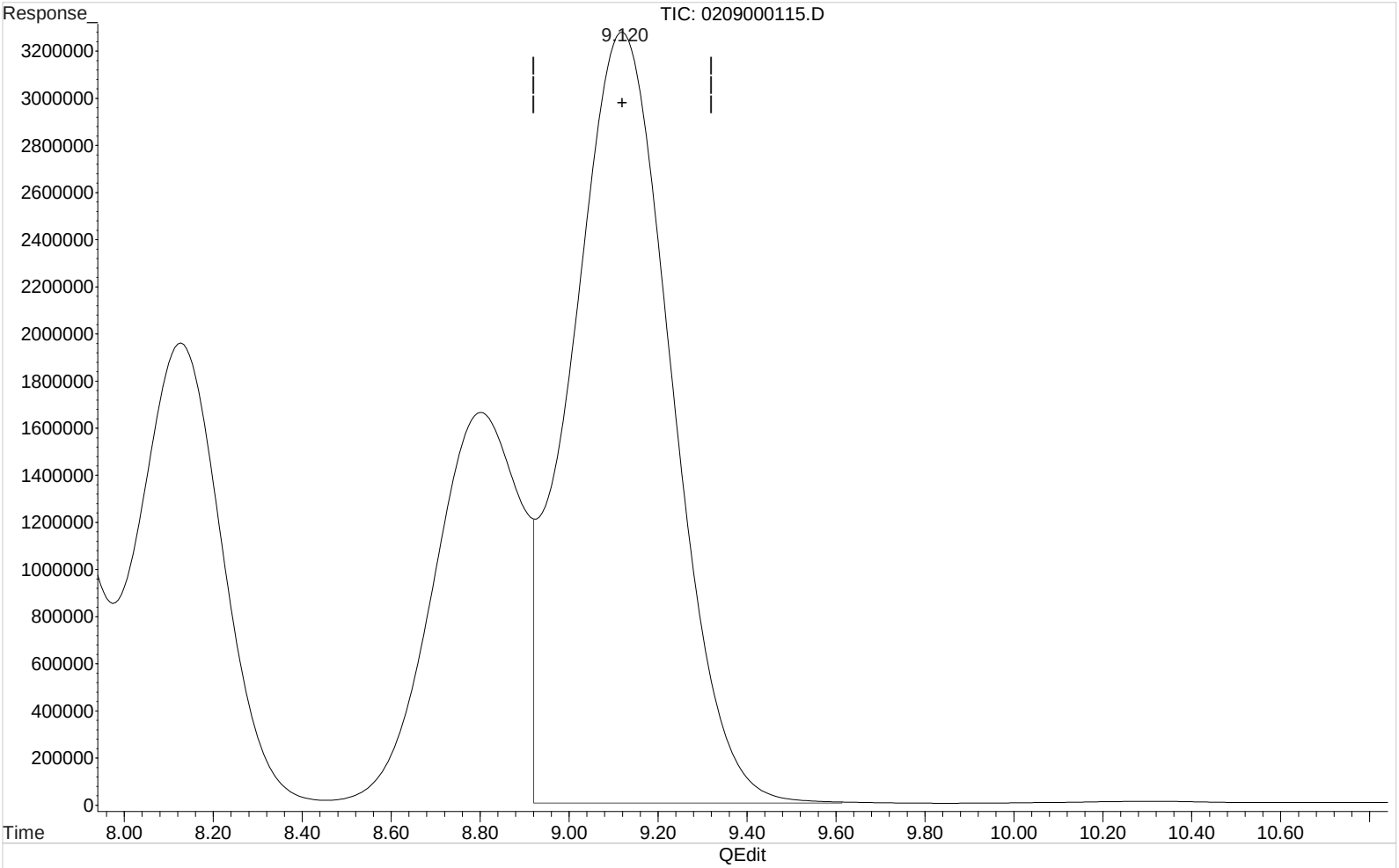
(+) = Expected Retention Time

(b)
1s (6) 02/13/17
2n 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(9) 1,3-DNB (T)

9.120min 919.544 ug/L m

response 51447002

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Date: 2/9/2017 XC-254 YC-210

ALS Environmental

ICAL Date: 2/9/2017

By: AE

Injection Log

ICAL ID: CAL 15185 (210) CAL 15192 (254)

Stealth ID: N/A **LC8 - Agilent 1260** **LIMS ID:** N/A

2nd Review:

Column: Ultra Aromax SN: 150411353J

Mobile Phases A: MeOH Lot#: 56189 **B:** ACN Lot#: 56207 **C:** H_2O Lot#: 56160 NA

		File Name	Method	Dilution	R	Comments
1	PRIMER	0209000101	8330BXC.M	NA		
2	PRIMER	0209000102	8330BXC.M	NA	X	
3	IB	0209000103	8330BXC.M	NA	X	
4	17-OLC-01-09J 20 PPB	0209000104	8330BXC.M	NA	X	
5	17-OLC-01-09I 50 PPB	0209000105	8330BXC.M	NA	X	
6	17-OLC-01-09H 100 PPB	0209000106	8330BXC.M	NA	X	
7	17-OLC-01-09G 200 PPB	0209000107	8330BXC.M	NA	X	
8	17-OLC-01-09F 500 PPB	0209000108	8330BXC.M	NA	X	
9	17-OLC-01-09E 1000 PPB	0209000109	8330BXC.M	NA	X	
10	17-OLC-01-09D 2000 PPB	0209000110	8330BXC.M	NA	X	
11	17-OLC-01-09C 5000 PPB	0209000111	8330BXC.M	NA	X	
12	17-OLC-01-09B 10000 PPB	0209000112	8330BXC.M	NA	X	
13	17-OLC-01-09A 20000 PPB	0209000113	8330BXC.M	NA	X	
14	IB	0209000114	8330BXC.M	NA	X	
15	17-OLC-01-09K 1000 PPB ICV	0209000115	8330BXC.M	NA	X	
16	IB	0209000116	8330BXC.M	NA	X	

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000103.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 15:23:38 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:39:27 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
	Target Compounds				
1) T	Nitroglycerin	0.000	0	N.D.	ug/L
2) T	PETN	0.000	0	N.D.	ug/L d

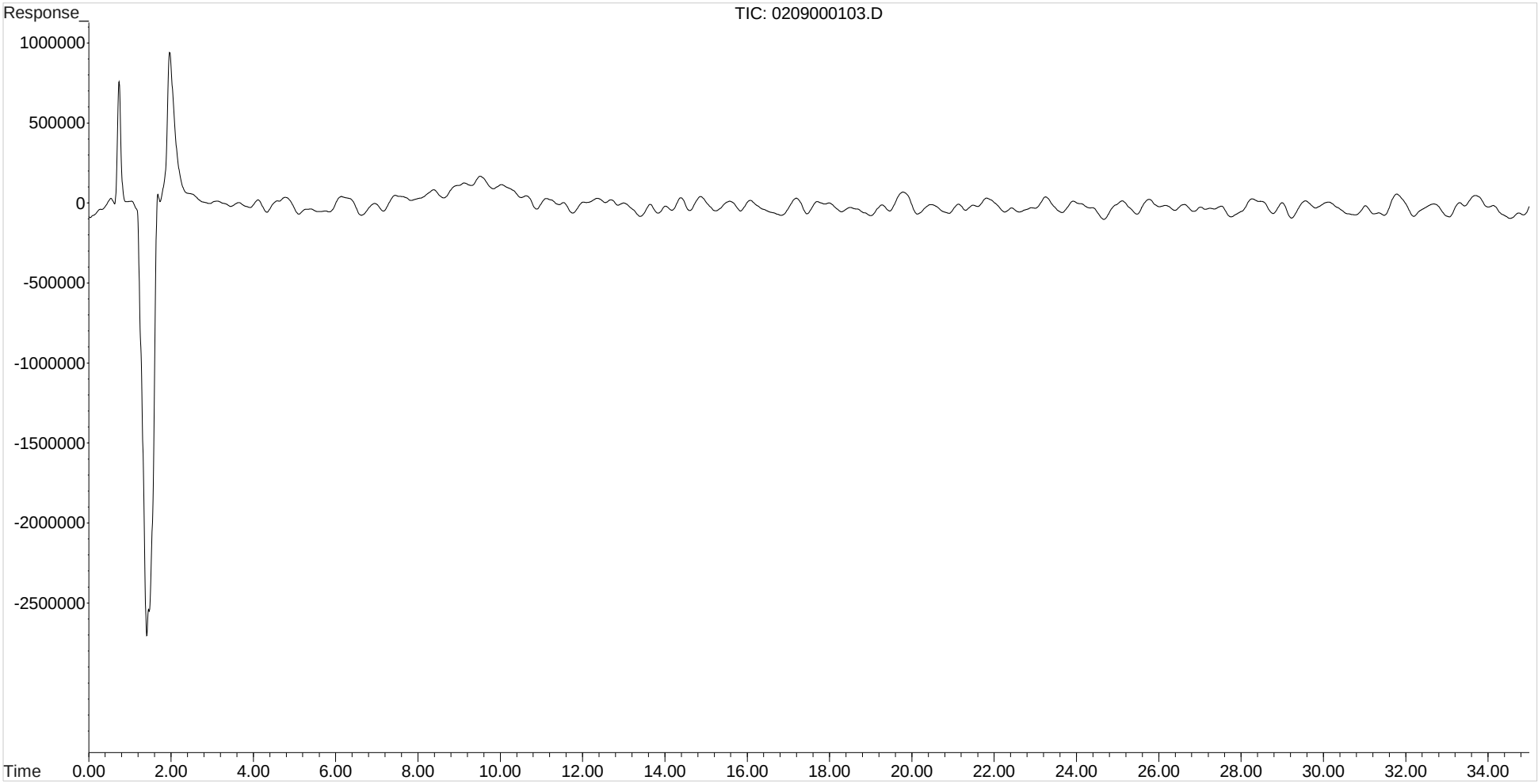
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000103.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 15:23:38 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:39:27 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:33:41 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	8.147	652772	9.384 ug/L m
Target Compounds				
1) T	Nitroglycerin	3.793	1642816	78.604 ug/L m
2) T	PETN	6.980	1691788	20.719 ug/L m

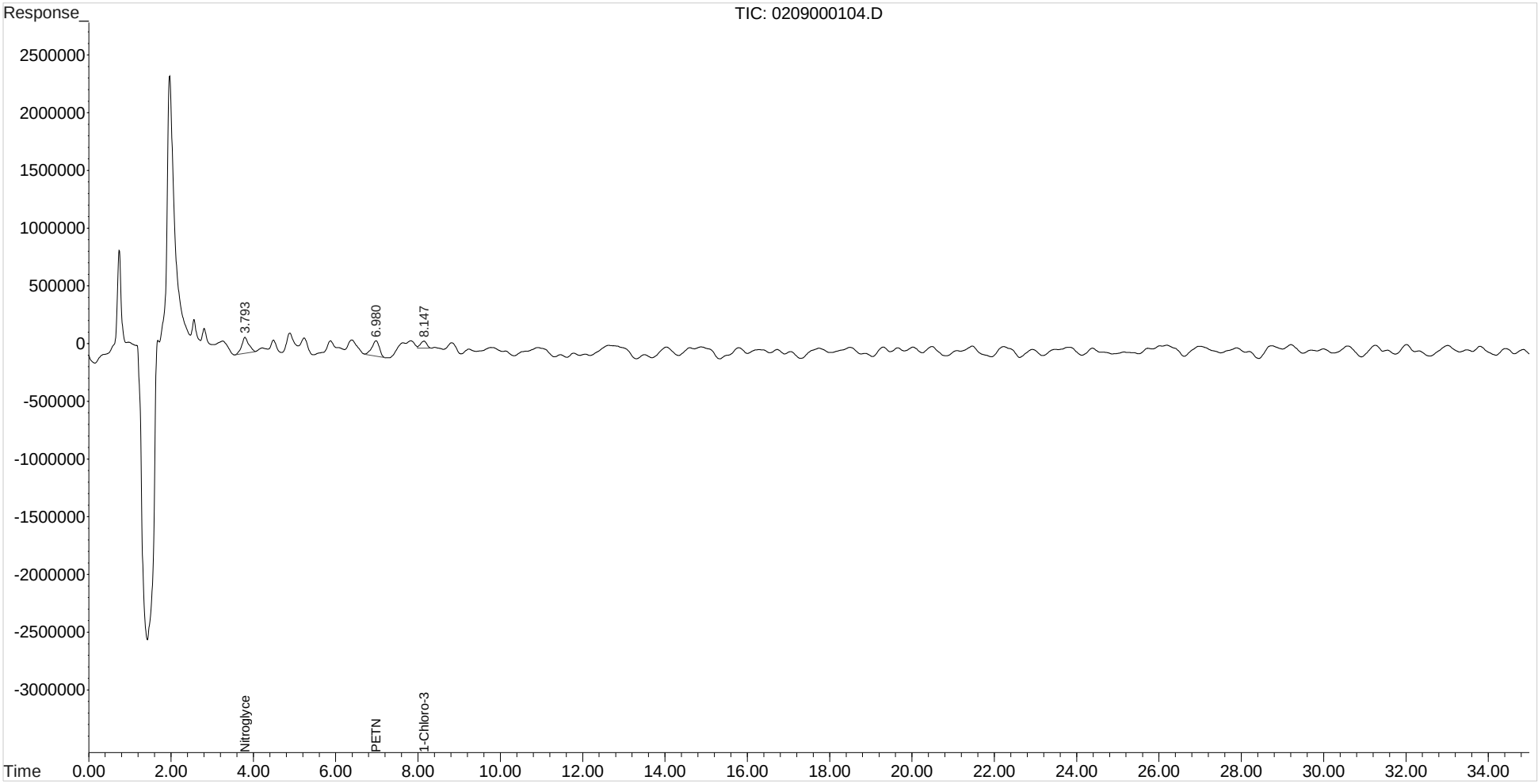
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:33:41 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

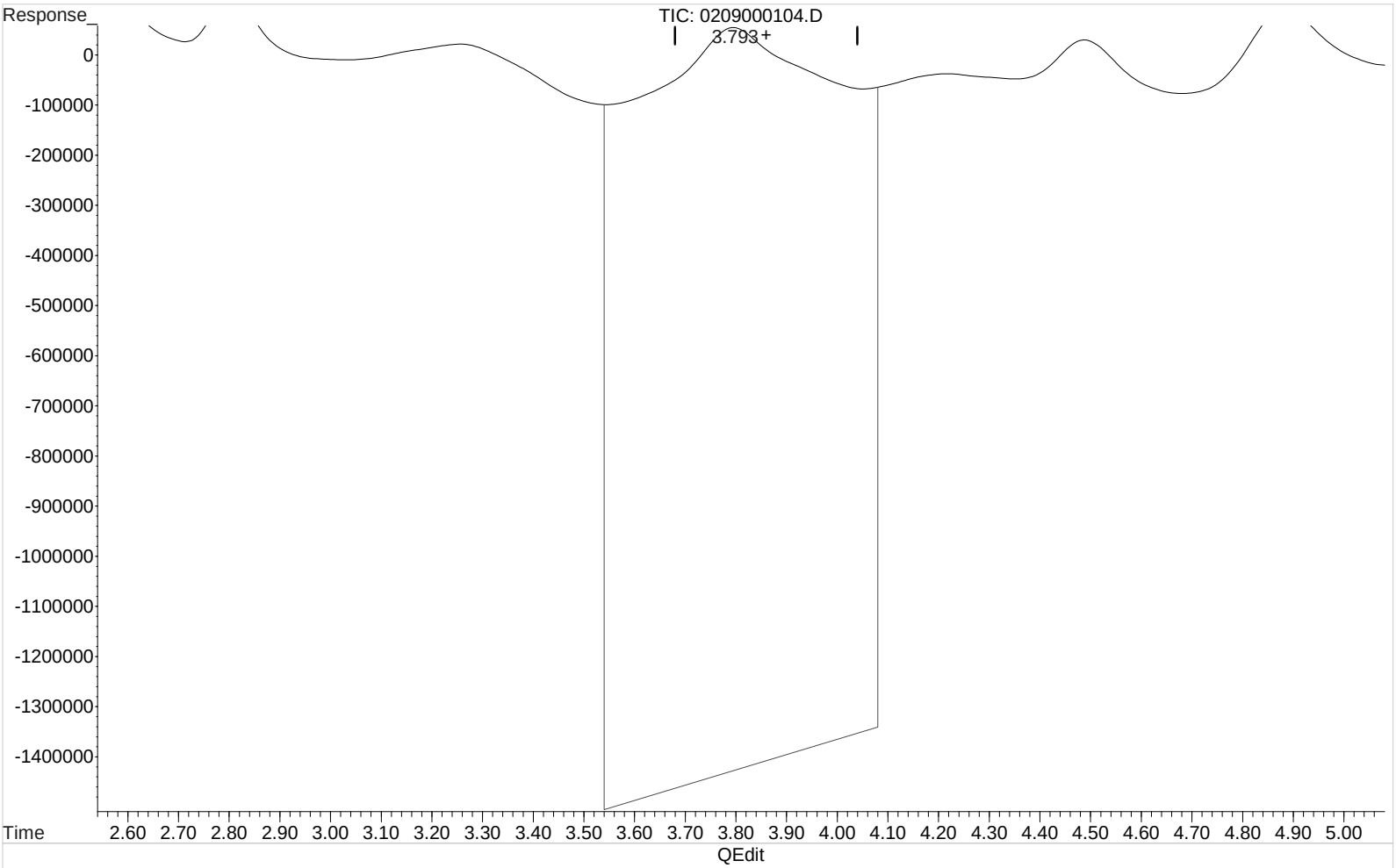


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:44 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.793min 2157.292 ug/L

response 45086986

Manual Integration:

Before

02/10/17

(+) = Expected Retention Time

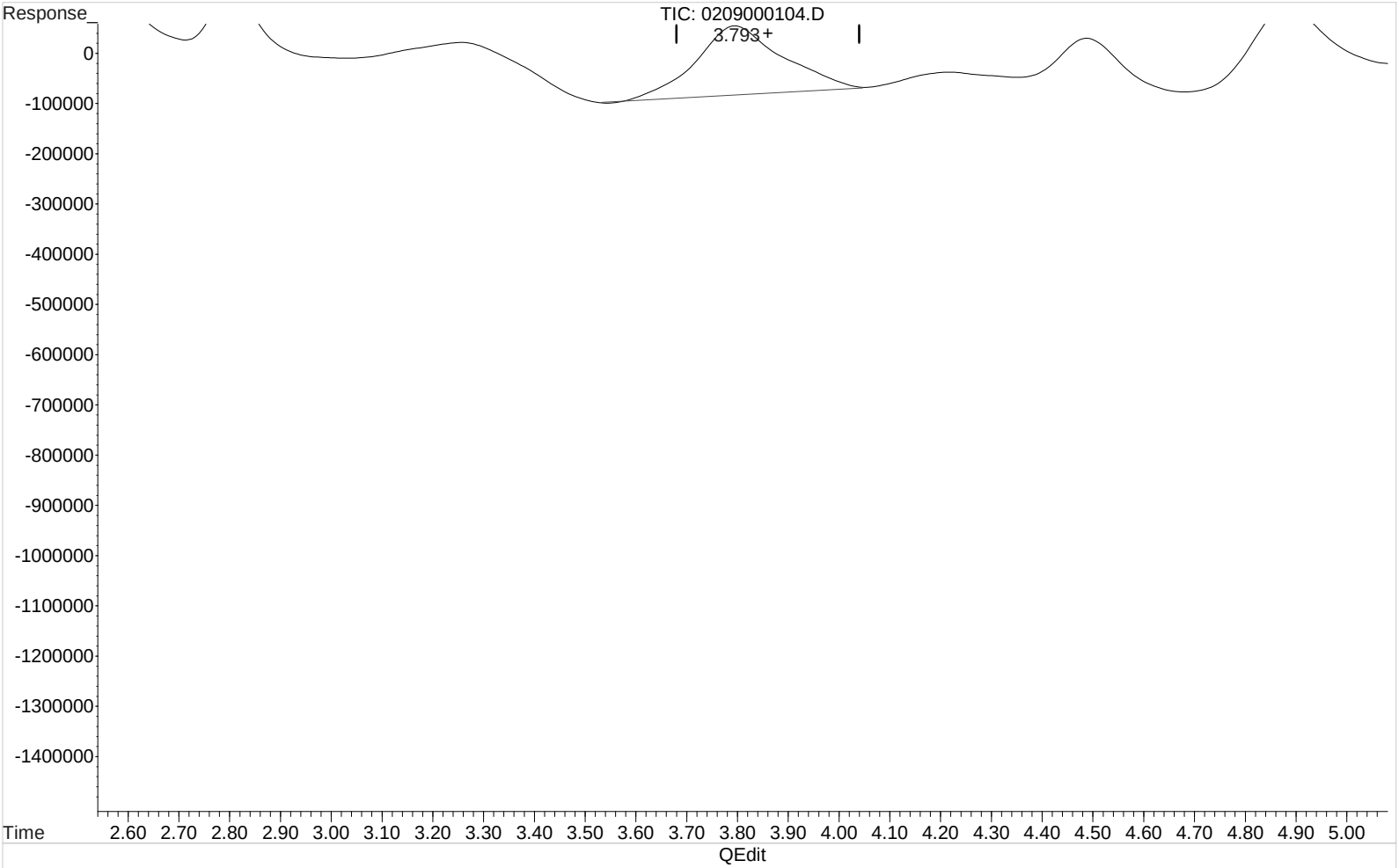
020917_Short_8330B@210.M Fri Feb 10 10:32:48 2017 Page: 1

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:44 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.793min 78.604 ug/L m

response 1642816

Manual Integration:

After

BLC

02/10/17

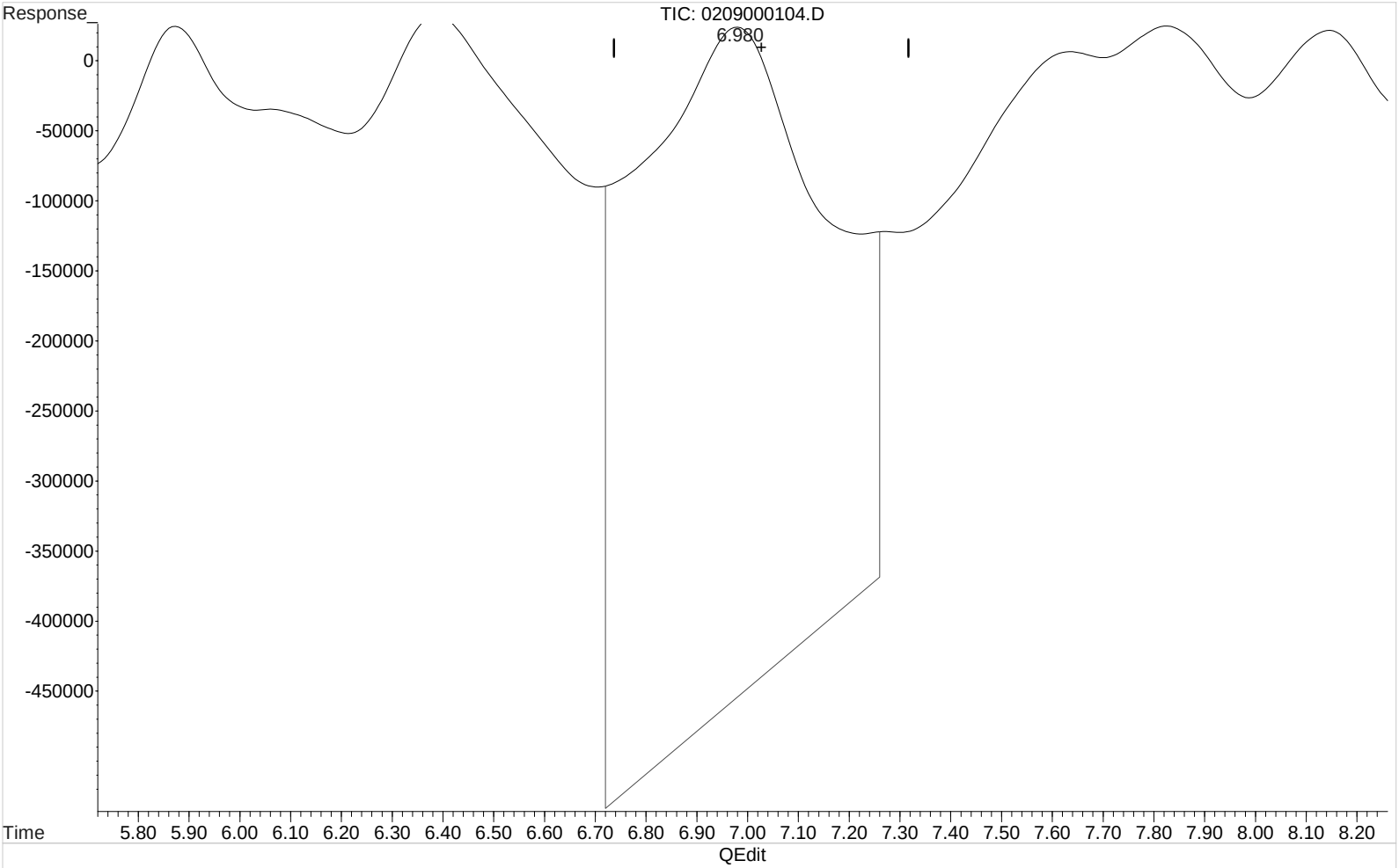
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:44 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.980min 156.268 ug/L

response 12760096

Manual Integration:

Before

02/10/17

(+) = Expected Retention Time

(b) (6)

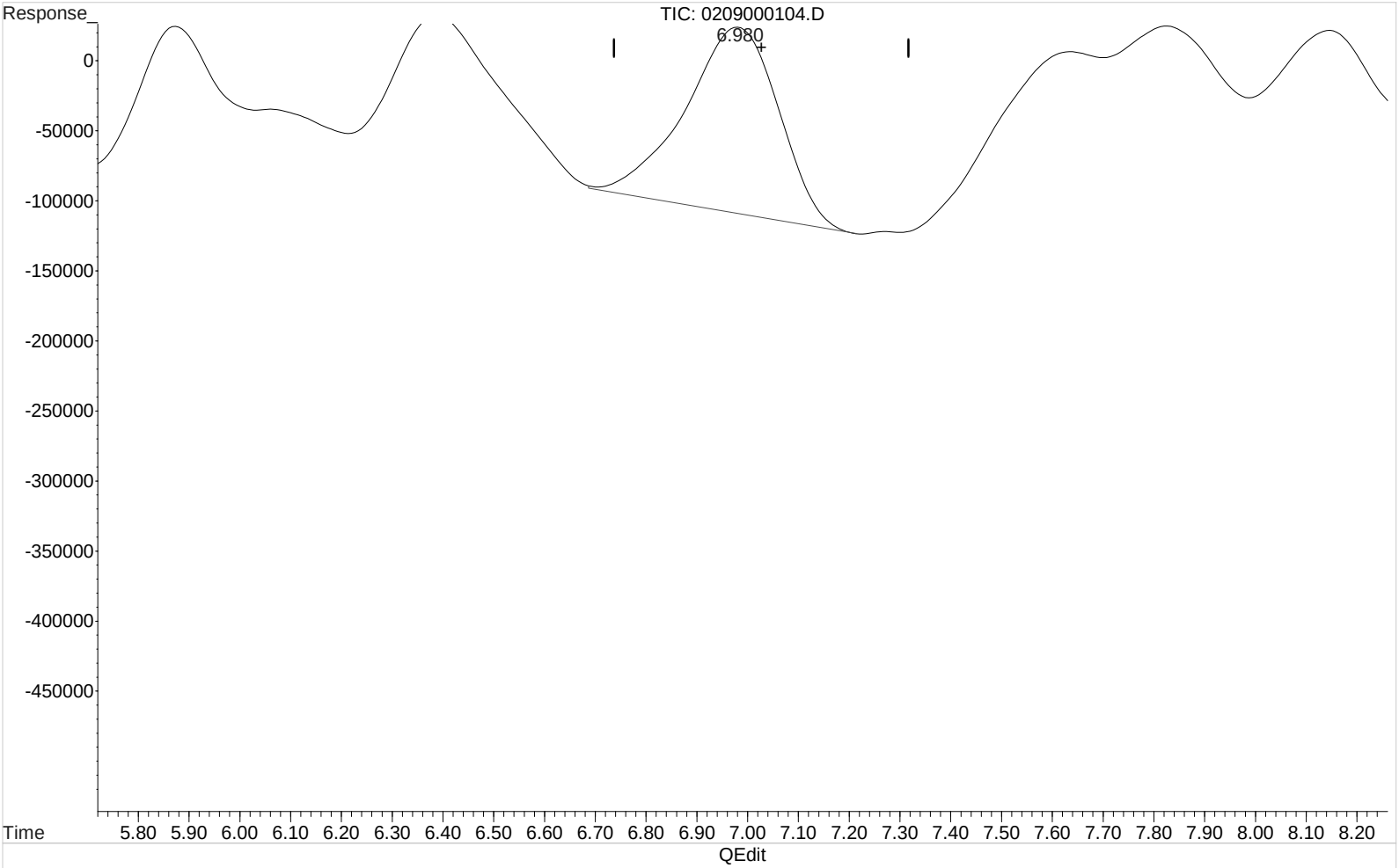
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:44 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.980min 20.719 ug/L m

response 1691788

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

(b) (6)

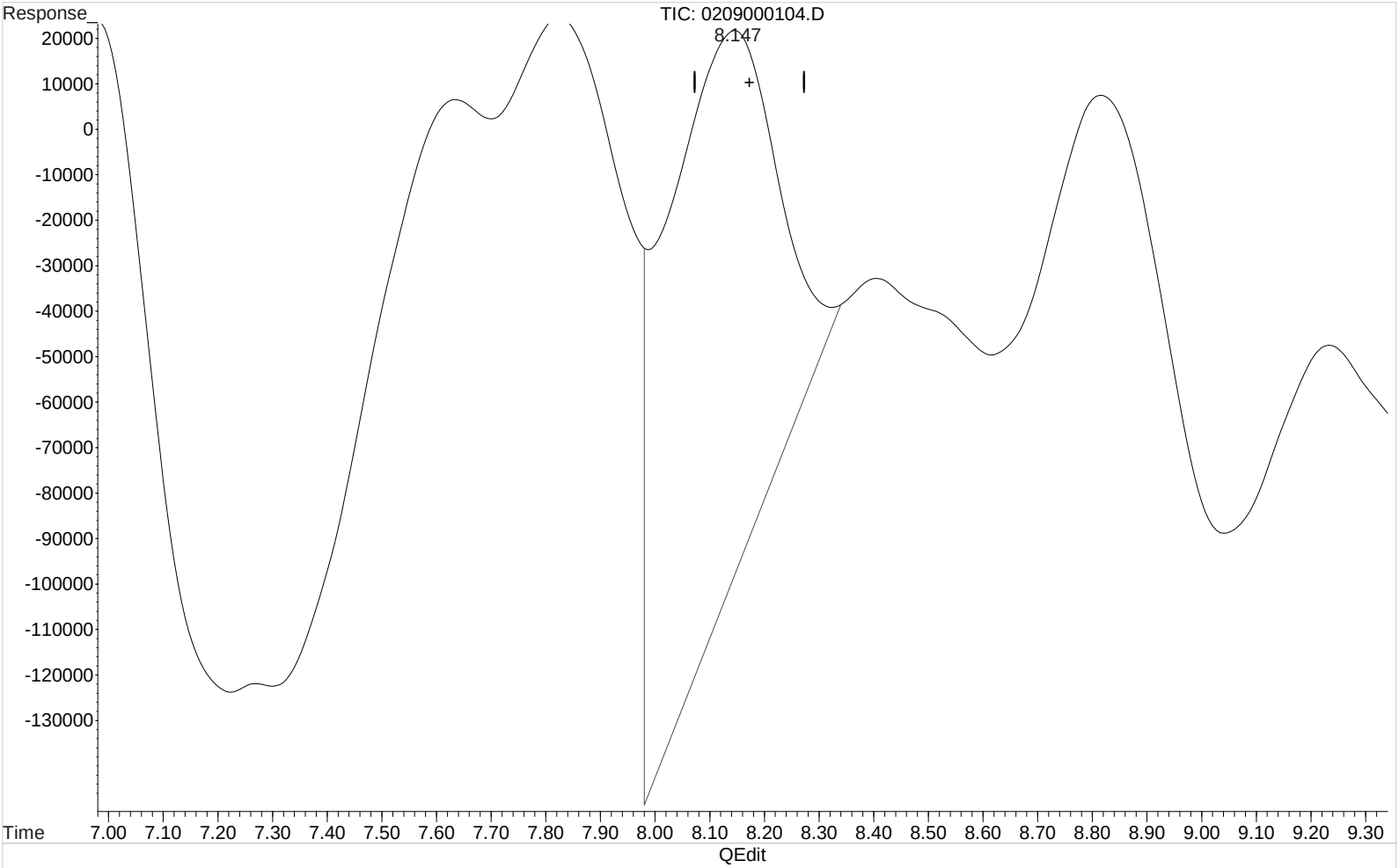
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:44 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.147min 26.209 ug/L

response 1823212

Manual Integration:

Before

02/10/17

(+) = Expected Retention Time

(b) (6)

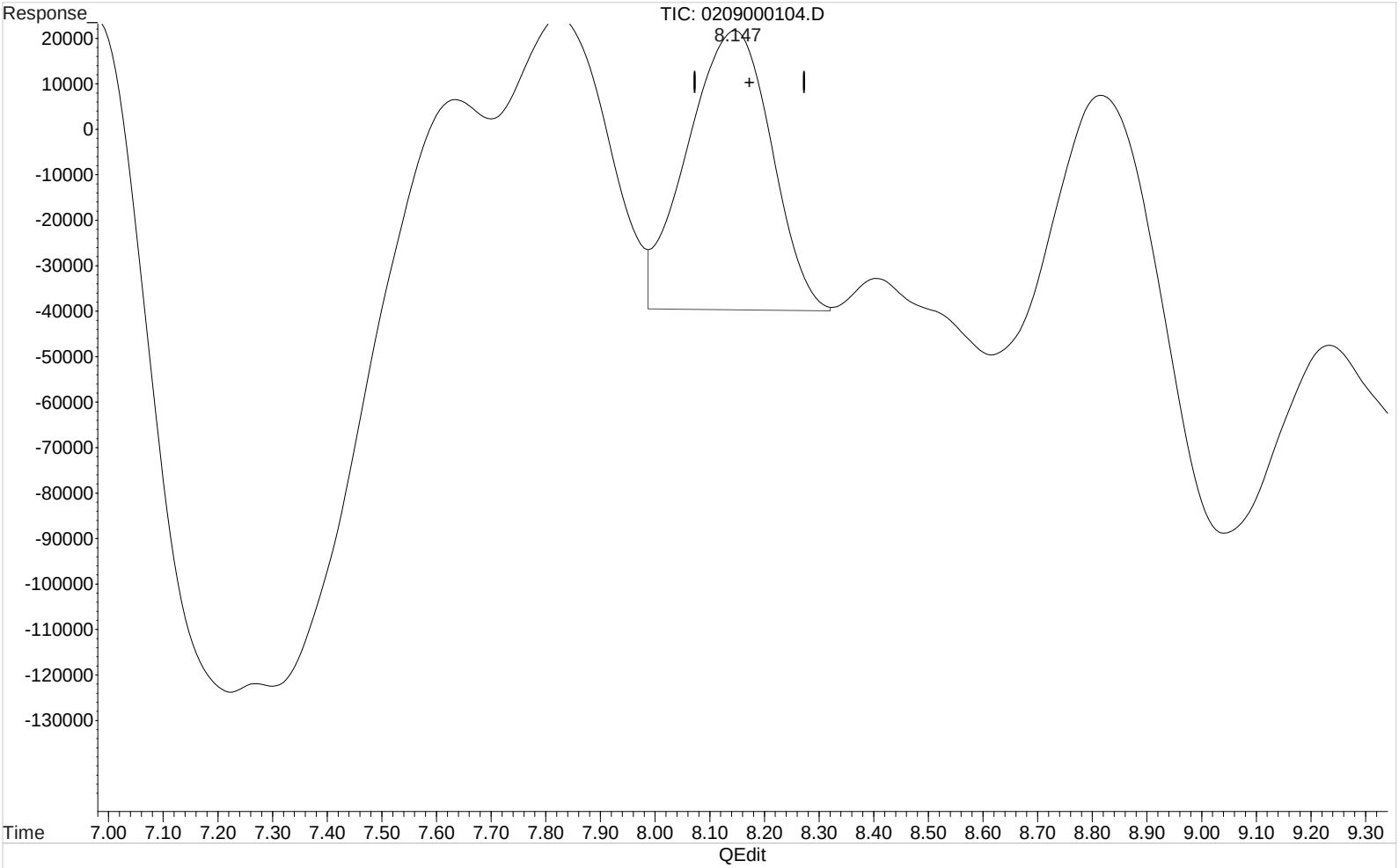
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:44 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.147min 9.384 ug/L m

response 652772

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	8.133	3061814	43.366 ug/L m
Target Compounds				
1) T	Nitroglycerin	3.793	1022712	48.804 ug/L m
2) T	PETN	6.993	3642903	44.021 ug/L m

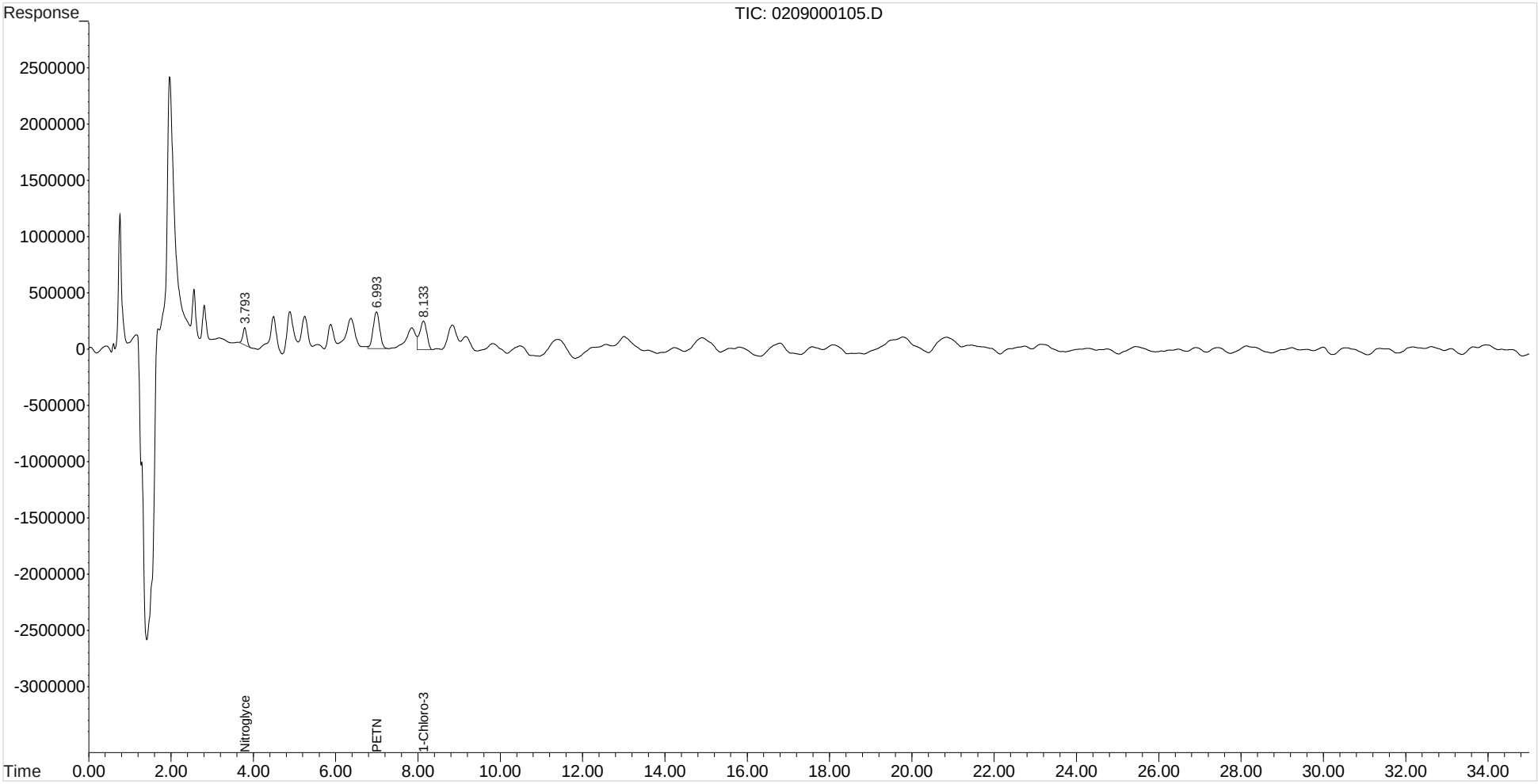
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

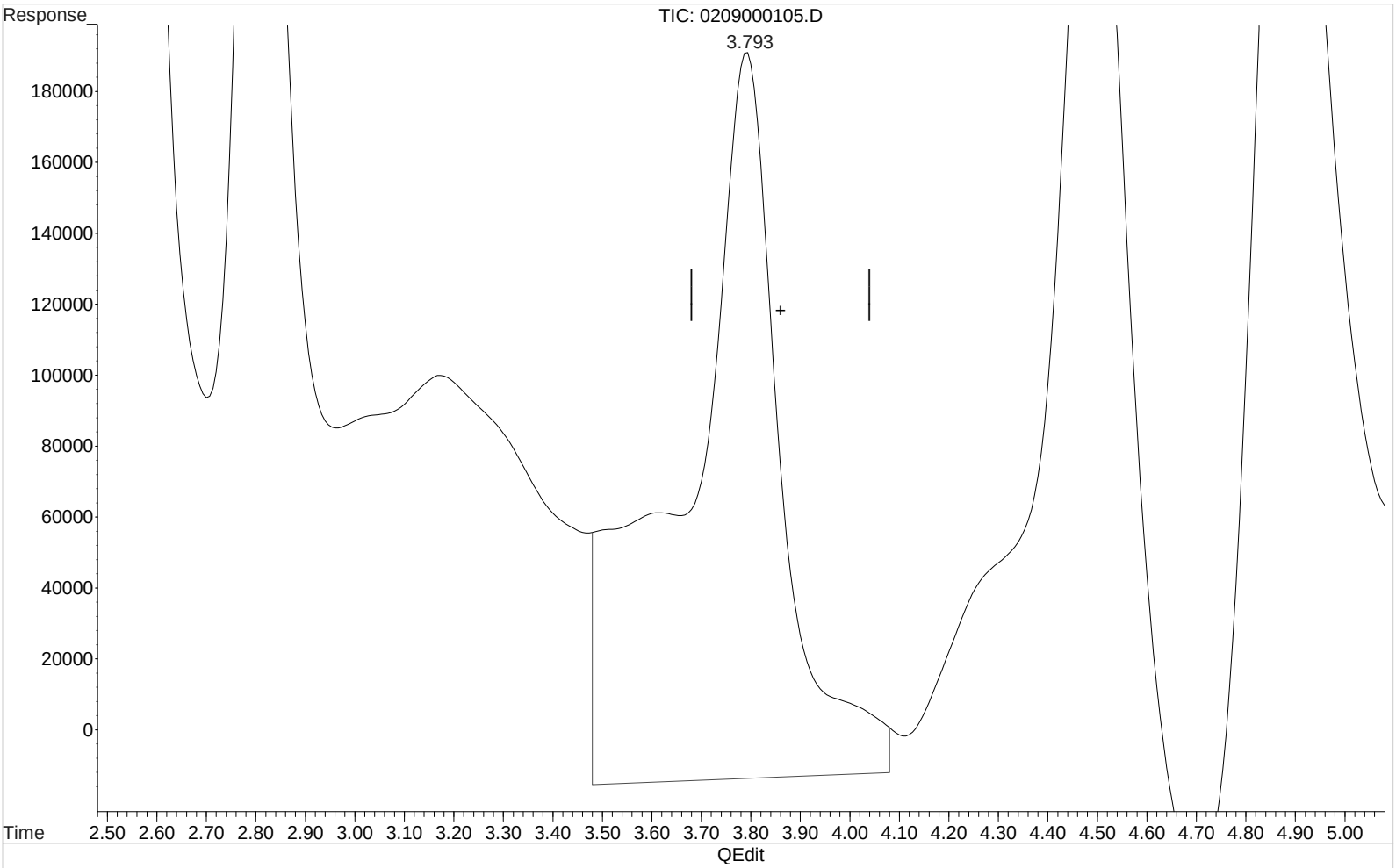


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:25 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.793min 133.146 ug/L

response 2790132

Manual Integration:

Before

02/10/17

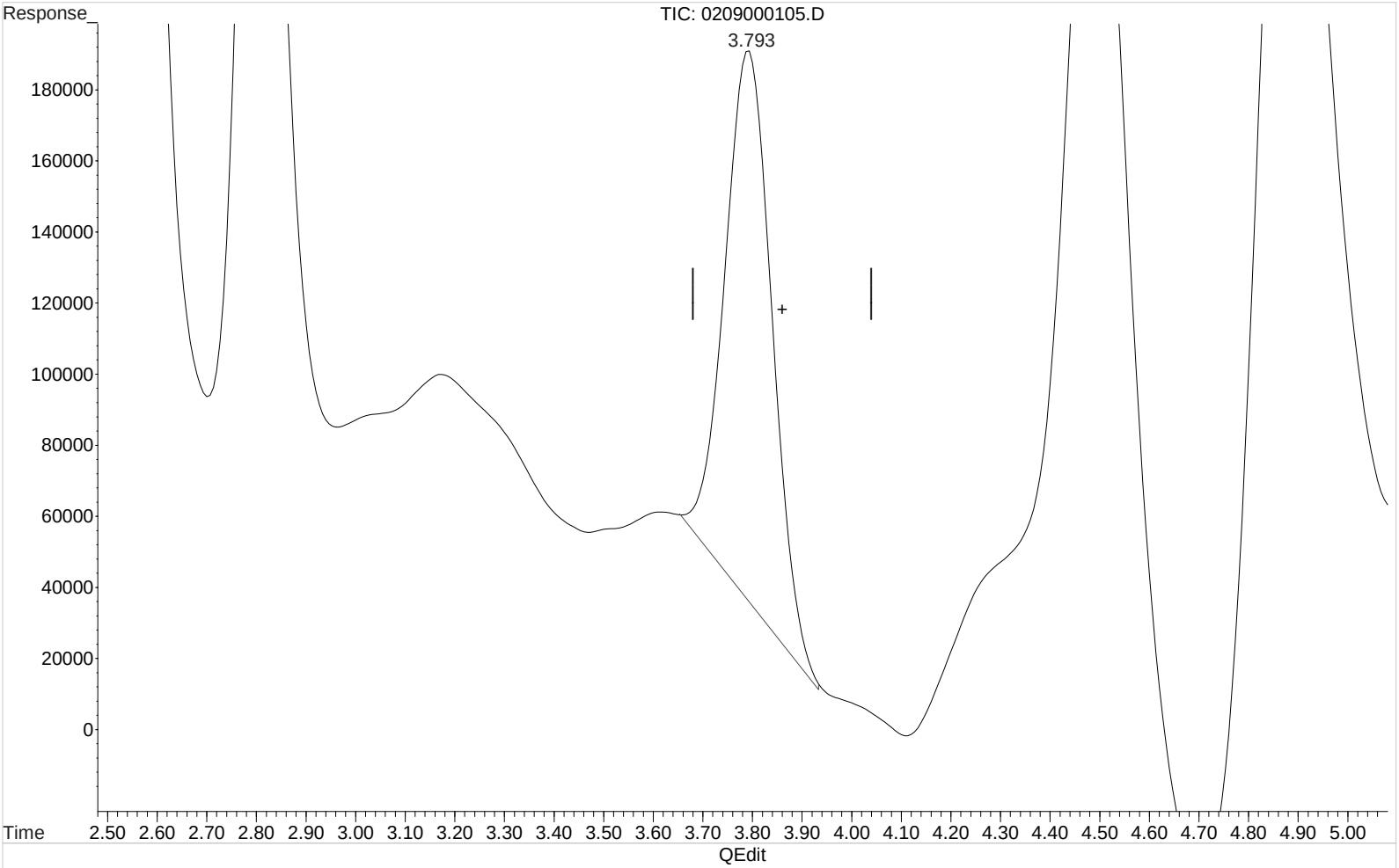
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:25 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.793min 48.804 ug/L m

response 1022712

Manual Integration:

After

BLC

02/10/17

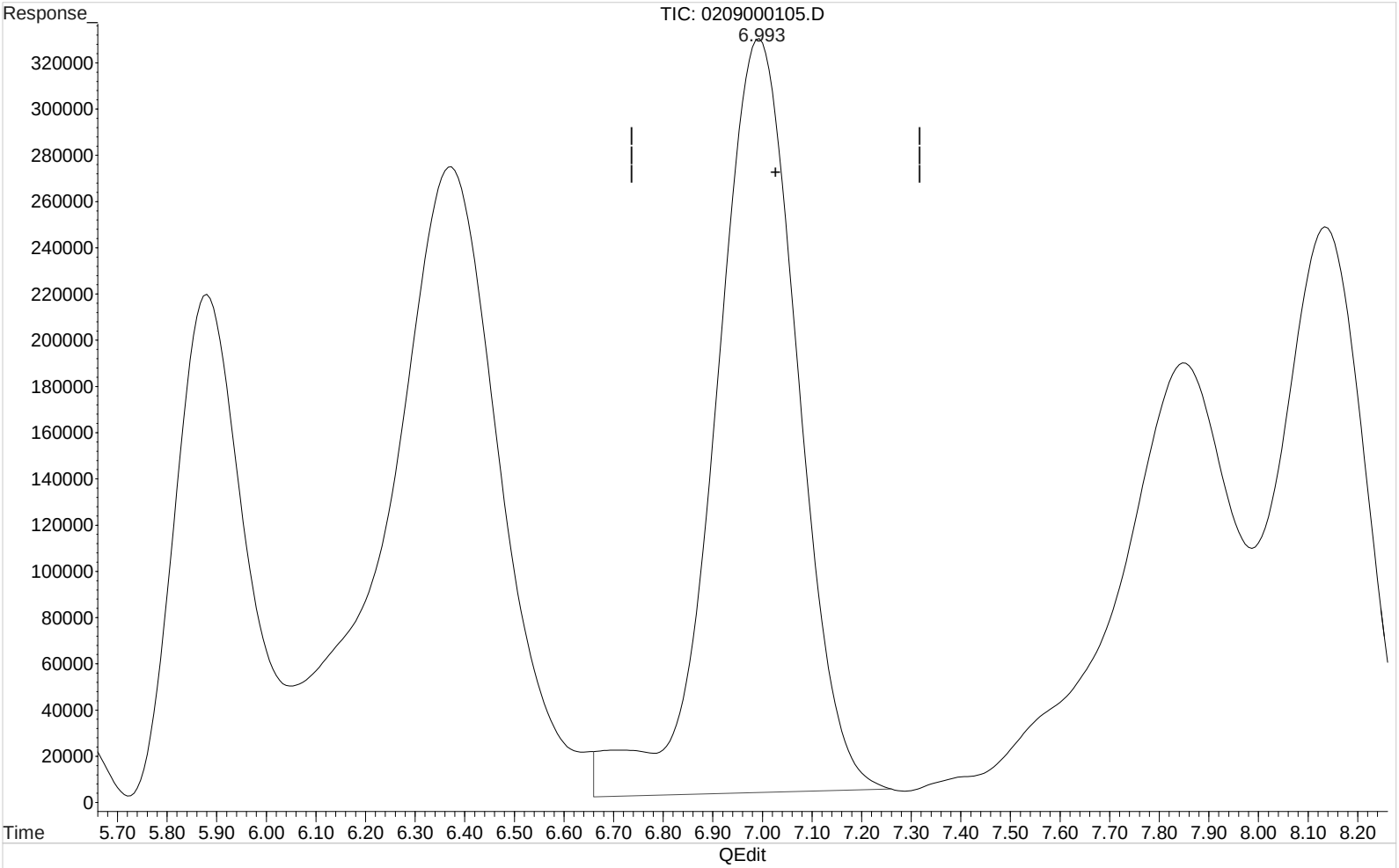
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:25 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.993min 45.943 ug/L

response 3802017

Manual Integration:

Before

02/10/17

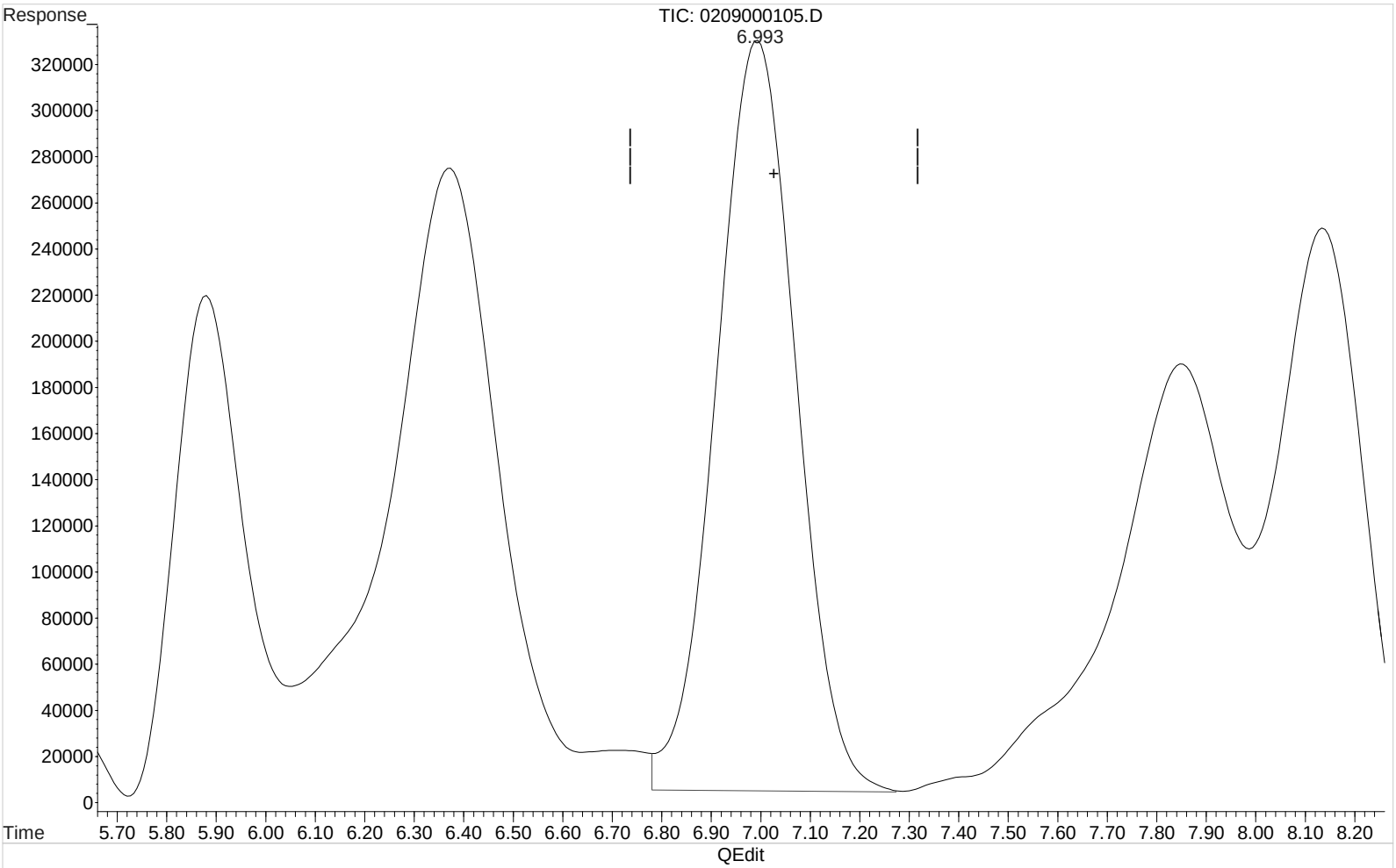
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:25 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.993min 44.021 ug/L m

response 3642903

Manual Integration:

After

BLC

02/10/17

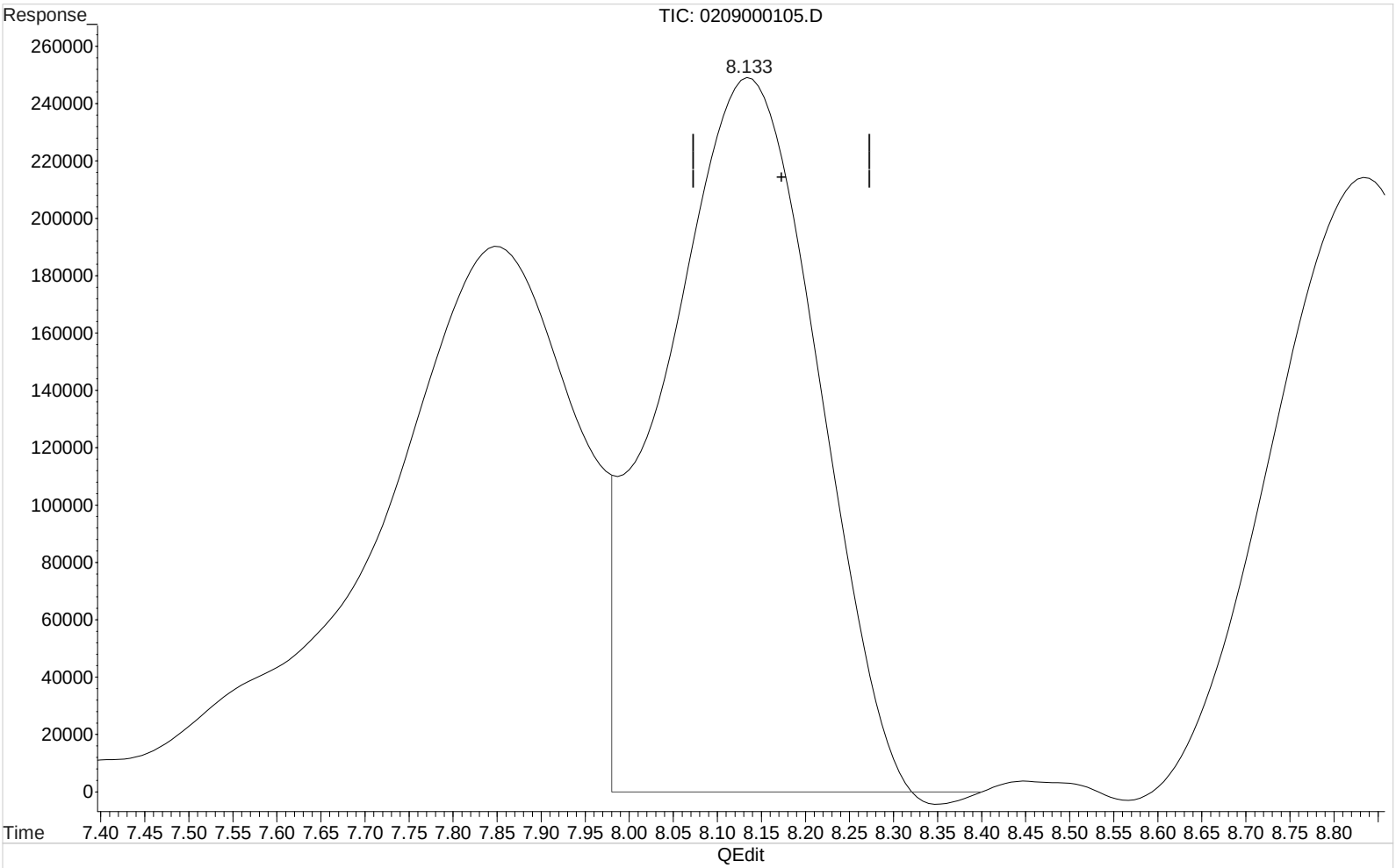
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:25 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.133min 41.867 ug/L

response 2955960

Manual Integration:

Before

02/10/17

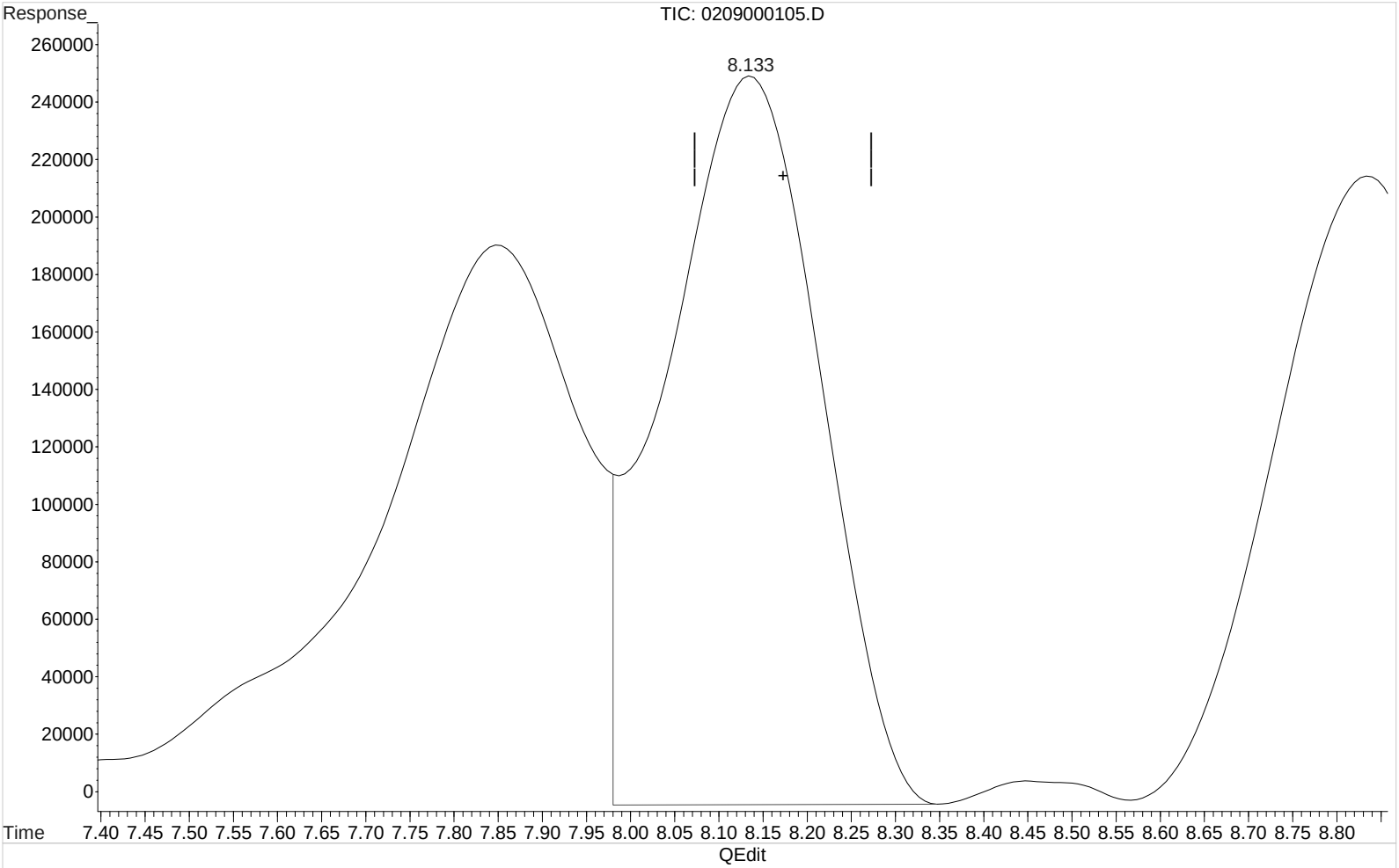
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:25 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.133min 43.366 ug/L m

response 3061814

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:09 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	8.147	7680230	110.160	ug/L	m
Target Compounds						
1) T	Nitroglycerin	3.787	1979030	93.695	ug/L	m
2) T	PETN	6.987	8553205	103.854	ug/L	m

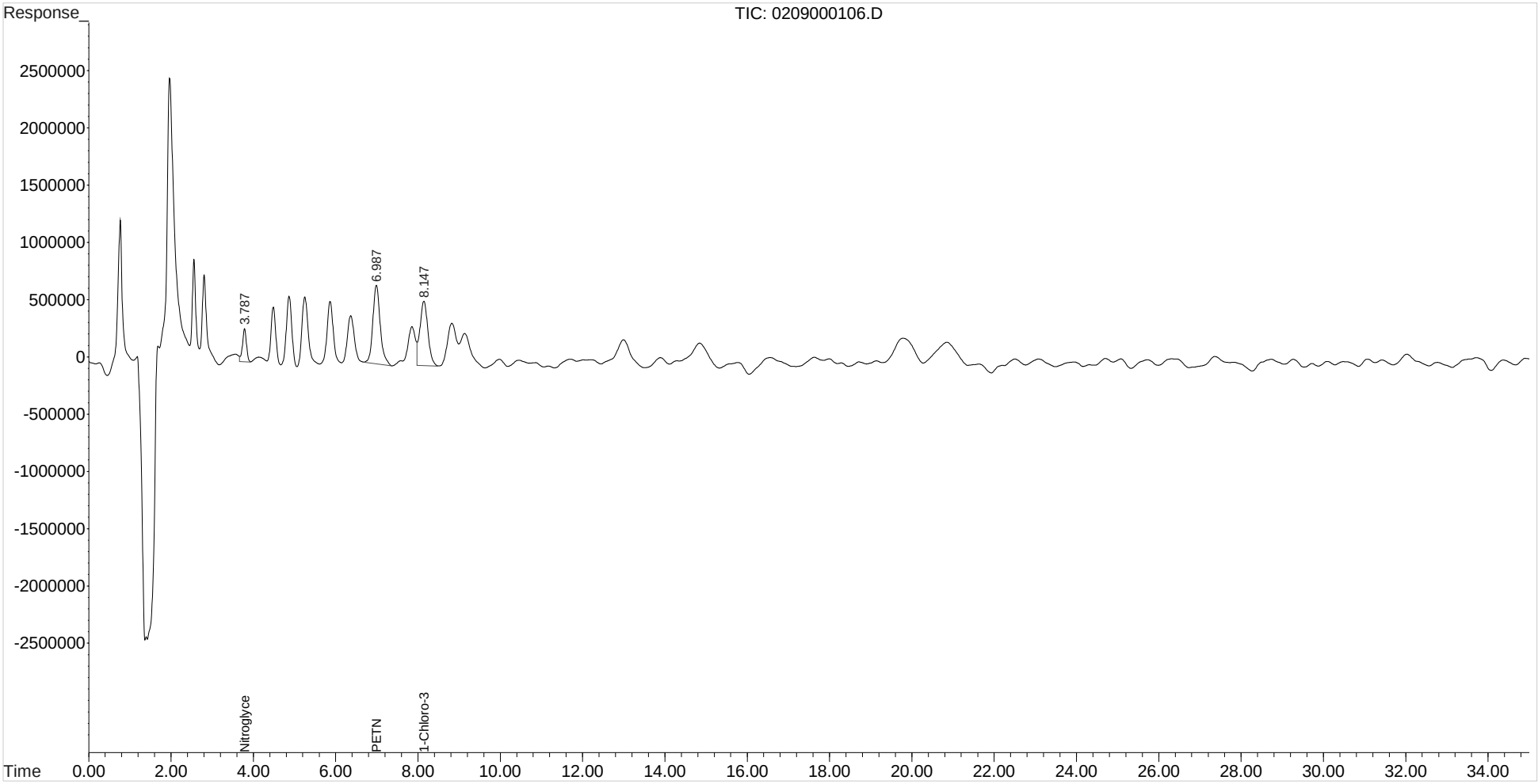
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:09 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

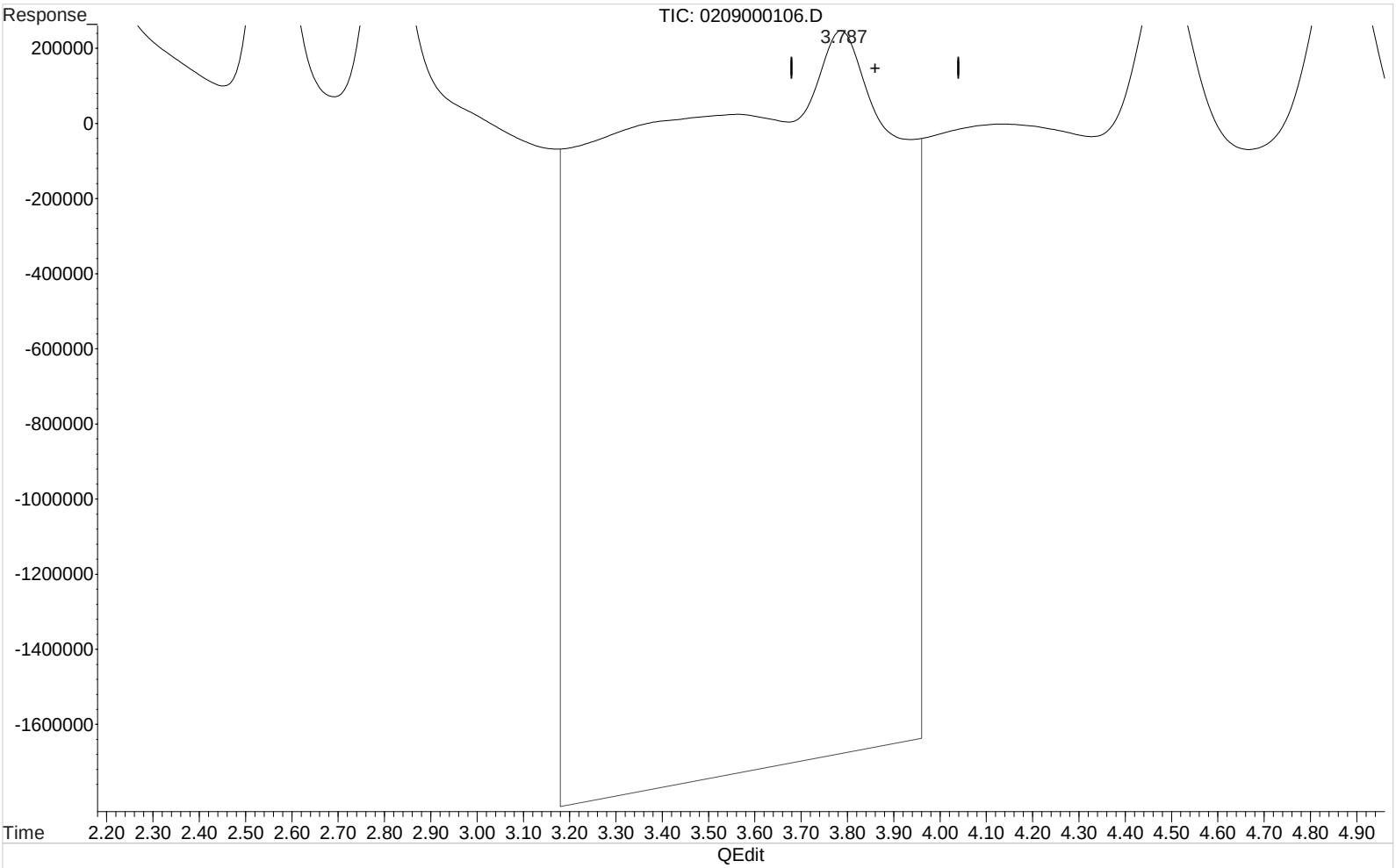


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:30:06 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.787min 3880.314 ug/L

response 81959818

Manual Integration:

Before

02/10/17

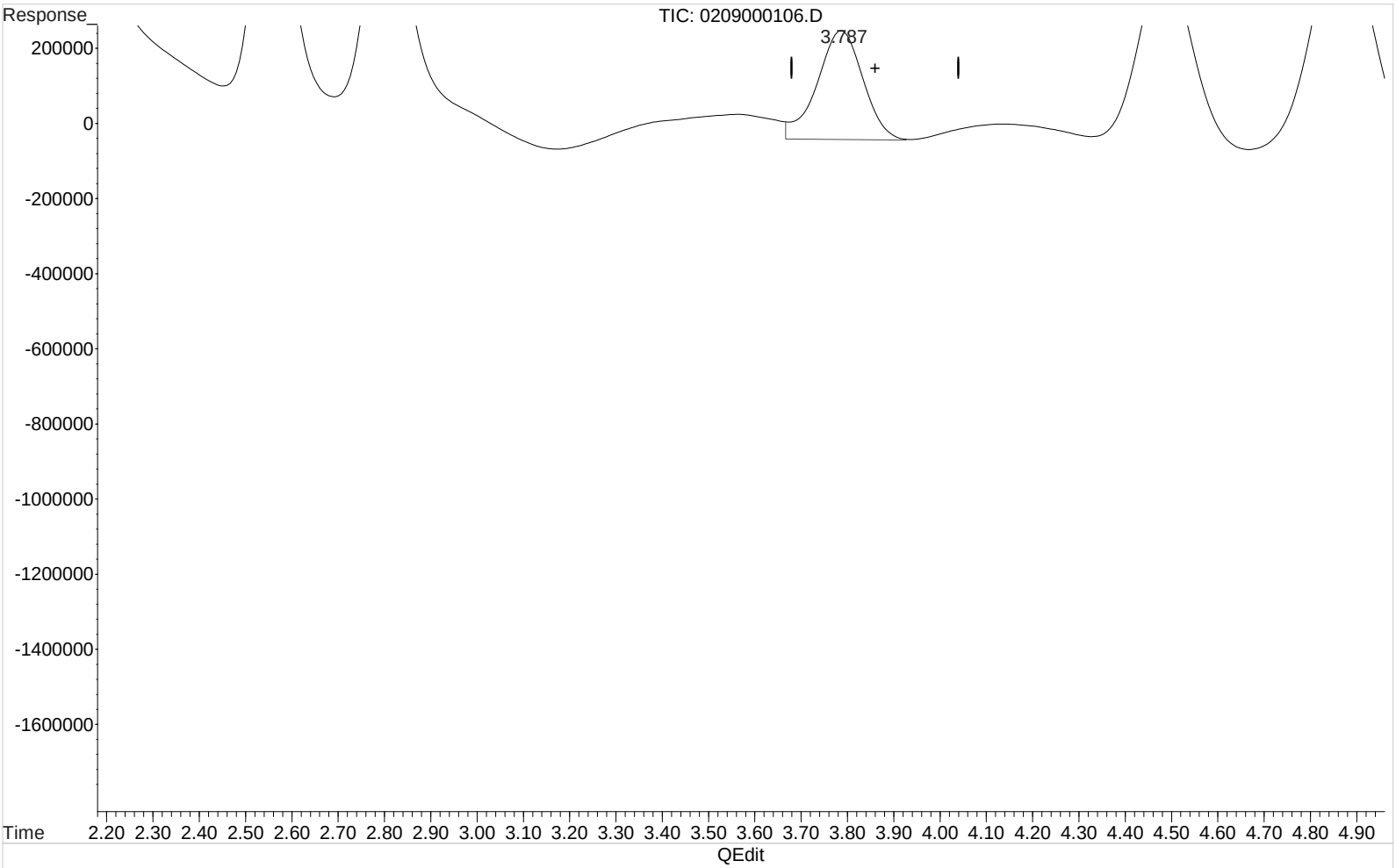
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:30:06 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.787min 93.695 ug/L m

response 1979030

Manual Integration:

After

BLC

02/10/17

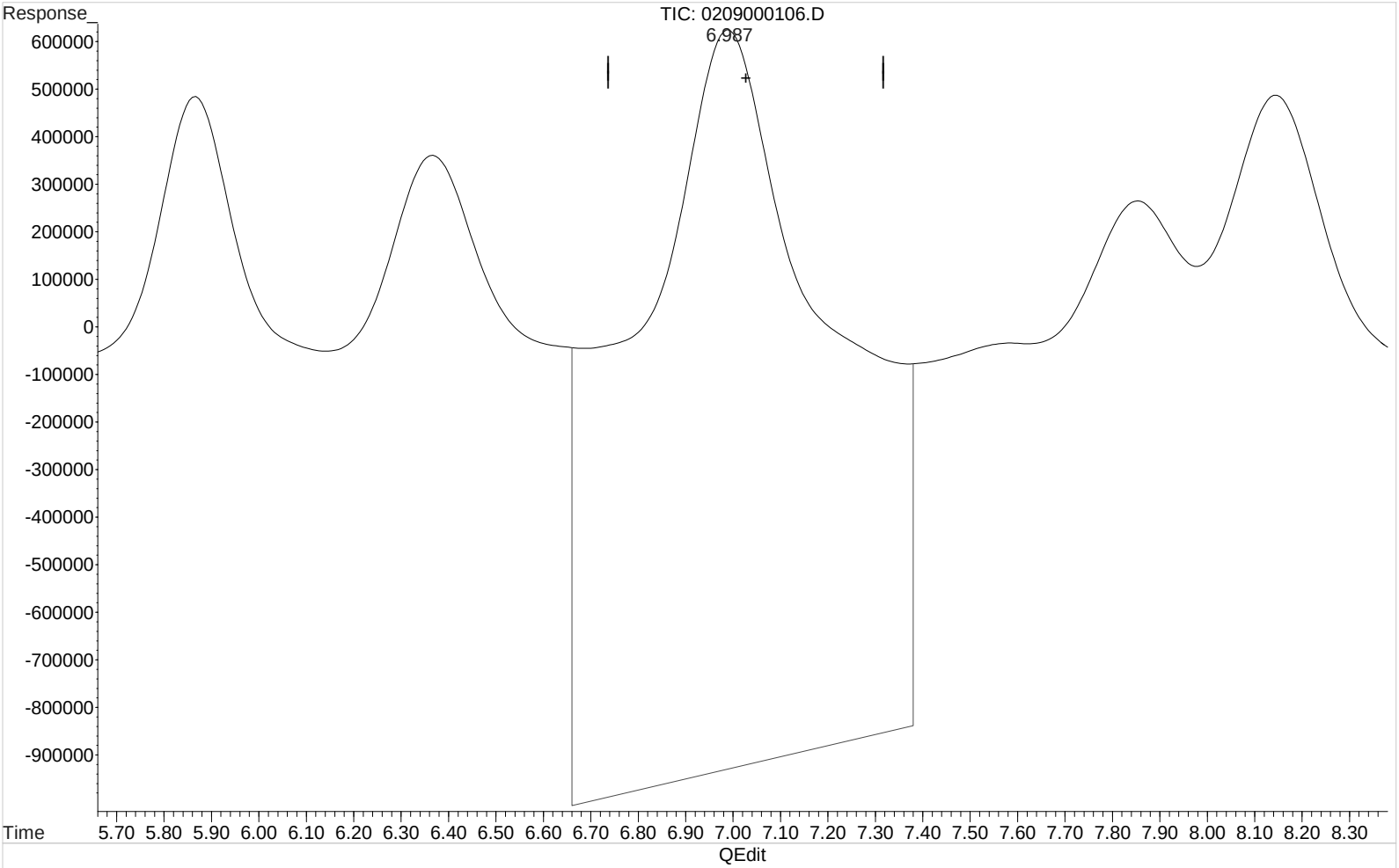
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:30:06 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.987min 555.668 ug/L

response 45763665

Manual Integration:

Before

02/10/17

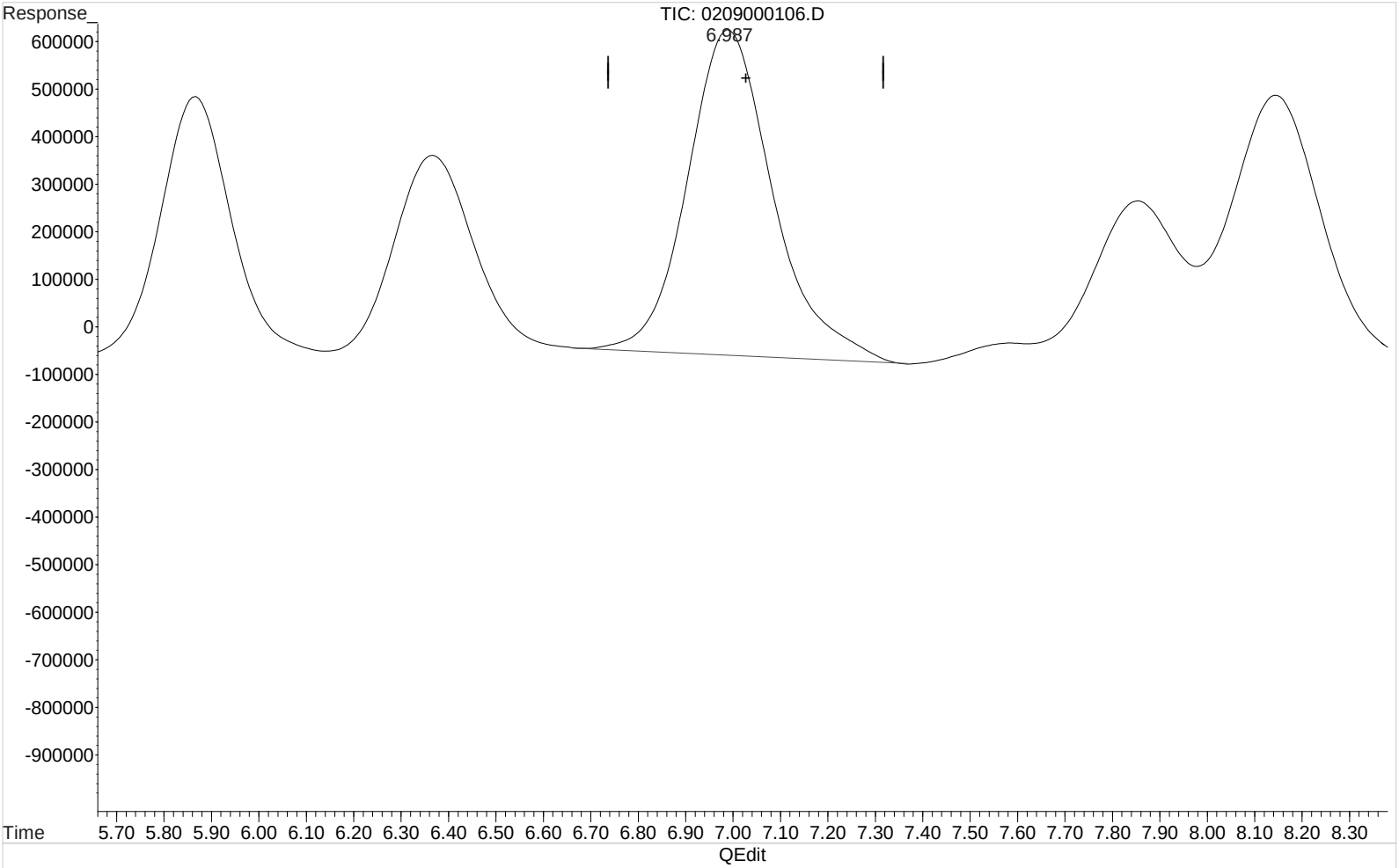
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:30:06 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.987min 103.854 ug/L m

response 8553205

Manual Integration:

After

BLC

02/10/17

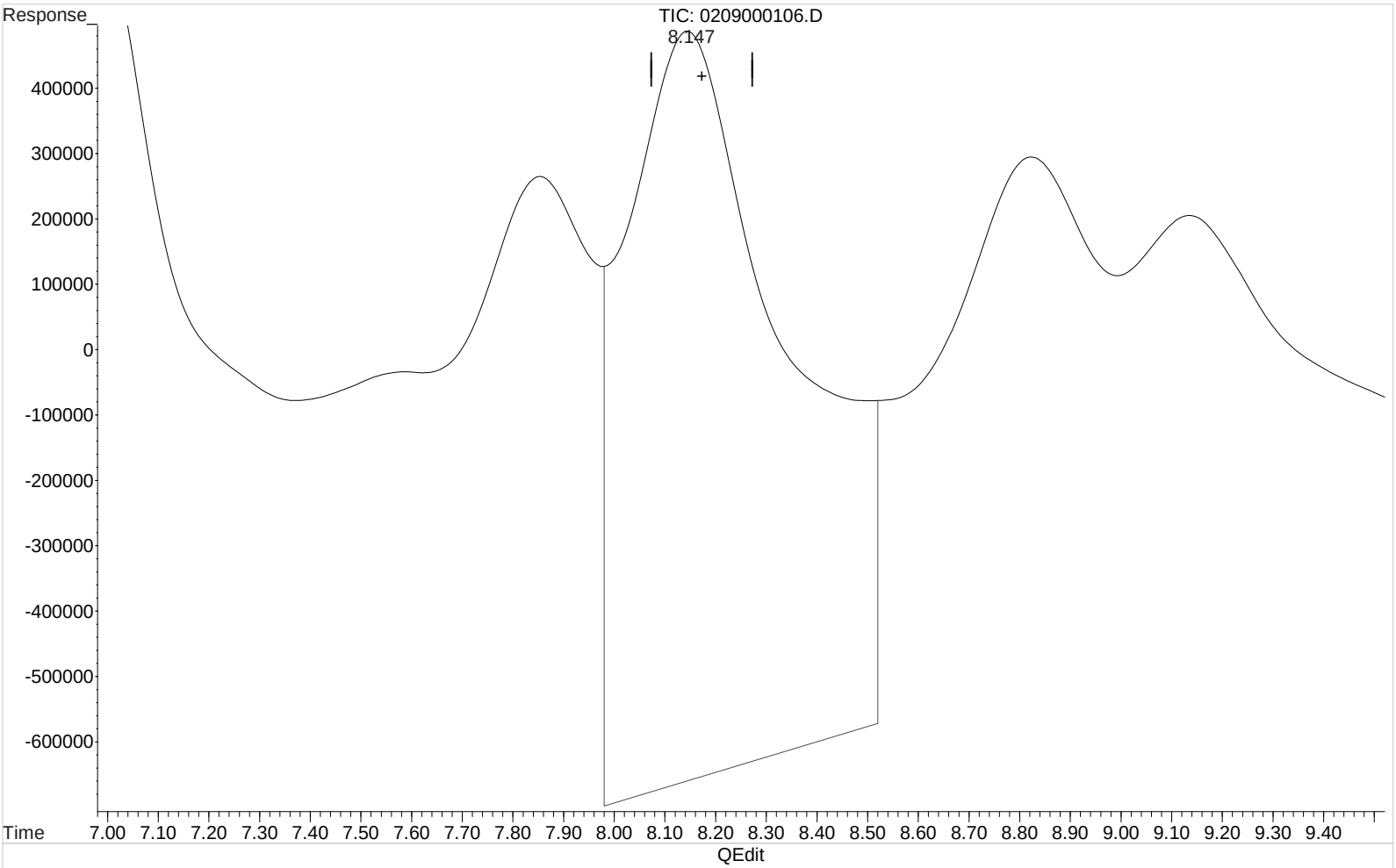
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:30:06 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.147min 368.214 ug/L

response 25671459

Manual Integration:

Before

02/10/17

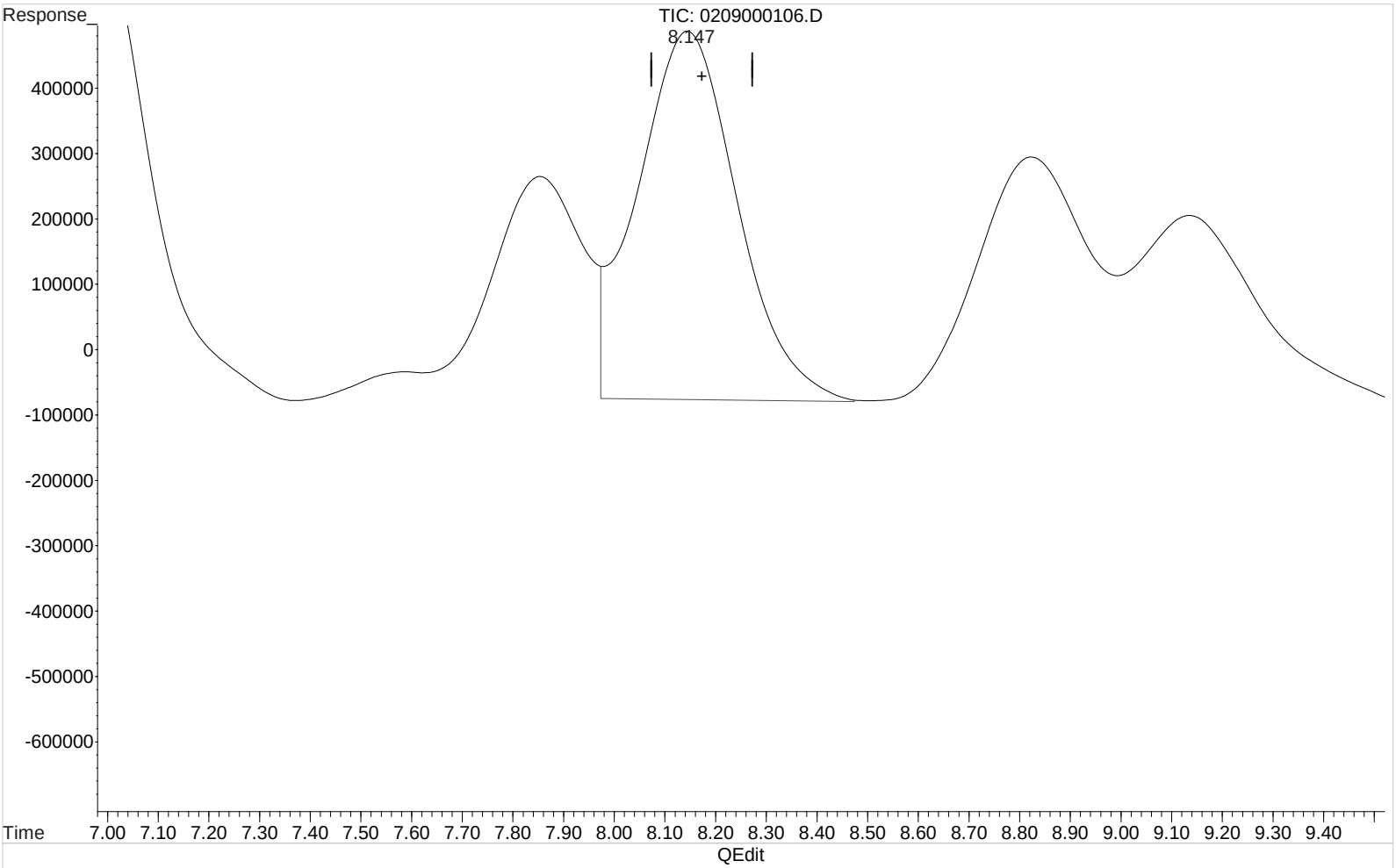
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:30:06 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.147min 110.160 ug/L m

response 7680230

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:29:46 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	8.133	13561422	193.631 ug/L m
Target Compounds				
1) T	Nitroglycerin	3.780	3978902	186.571 ug/L m
2) T	PETN	6.980	17566508	215.684 ug/L m

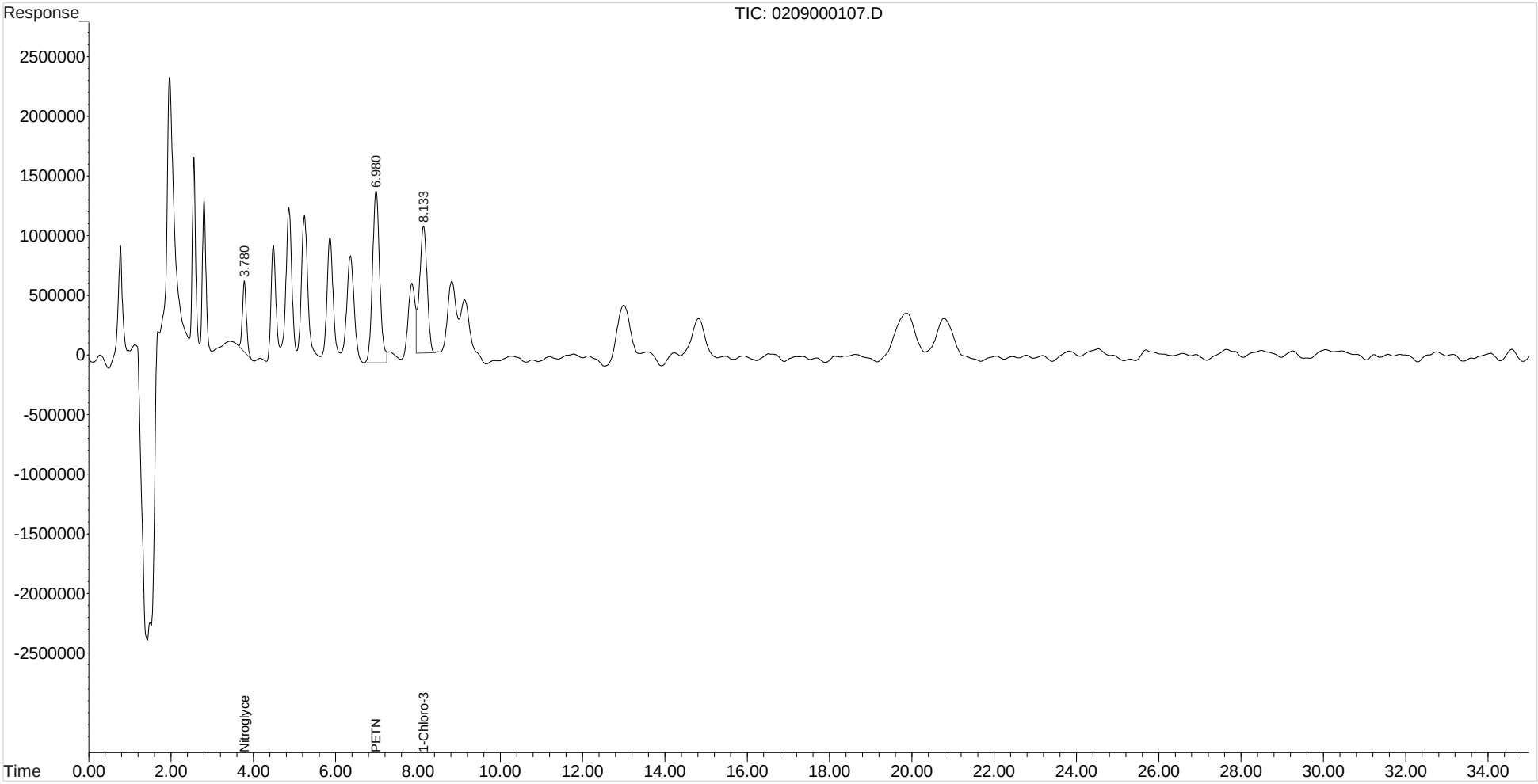
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:29:46 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(b) (6)

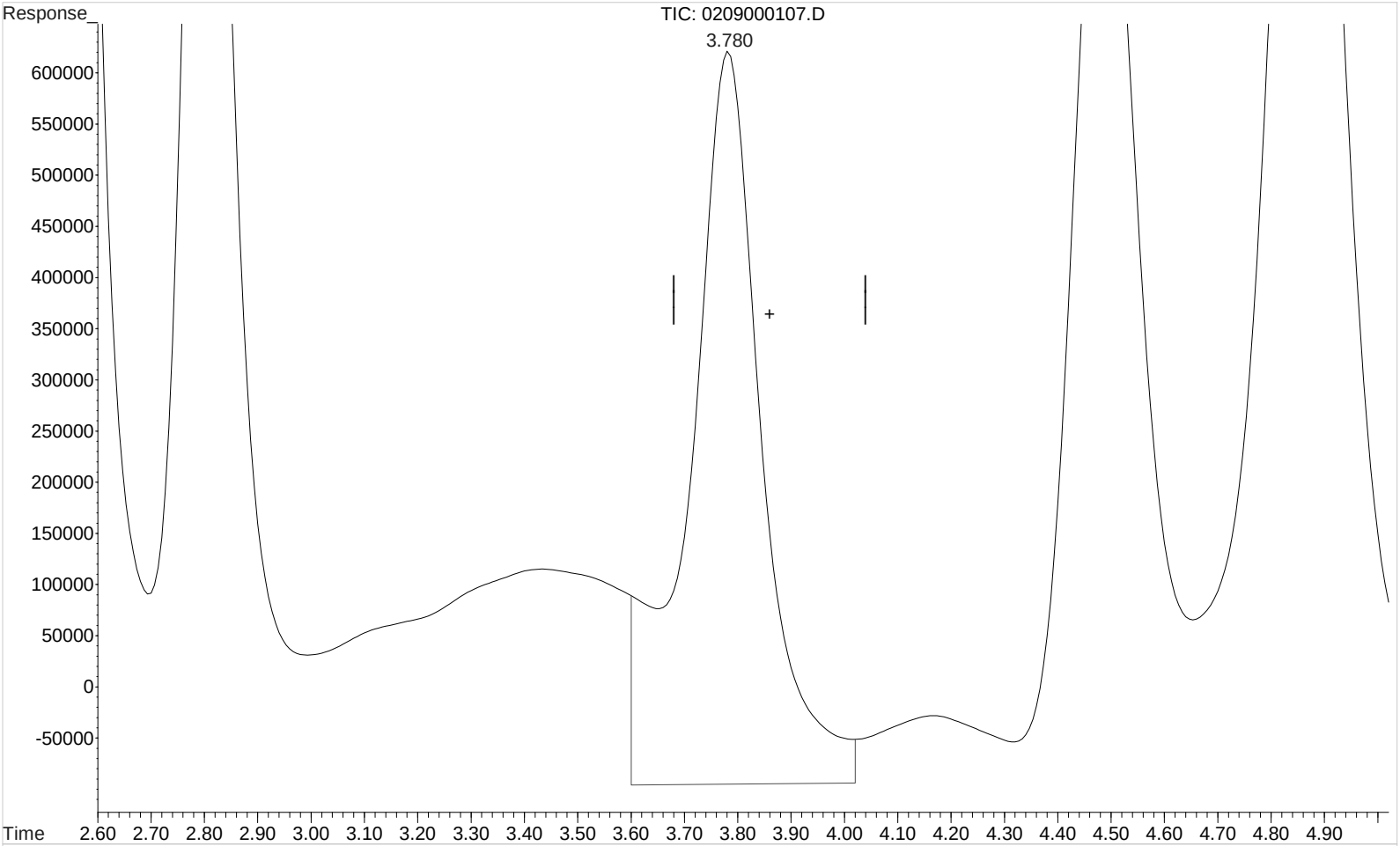
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:42 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.780min 317.059 ug/L

response 6761779

Manual Integration:

Before

02/10/17

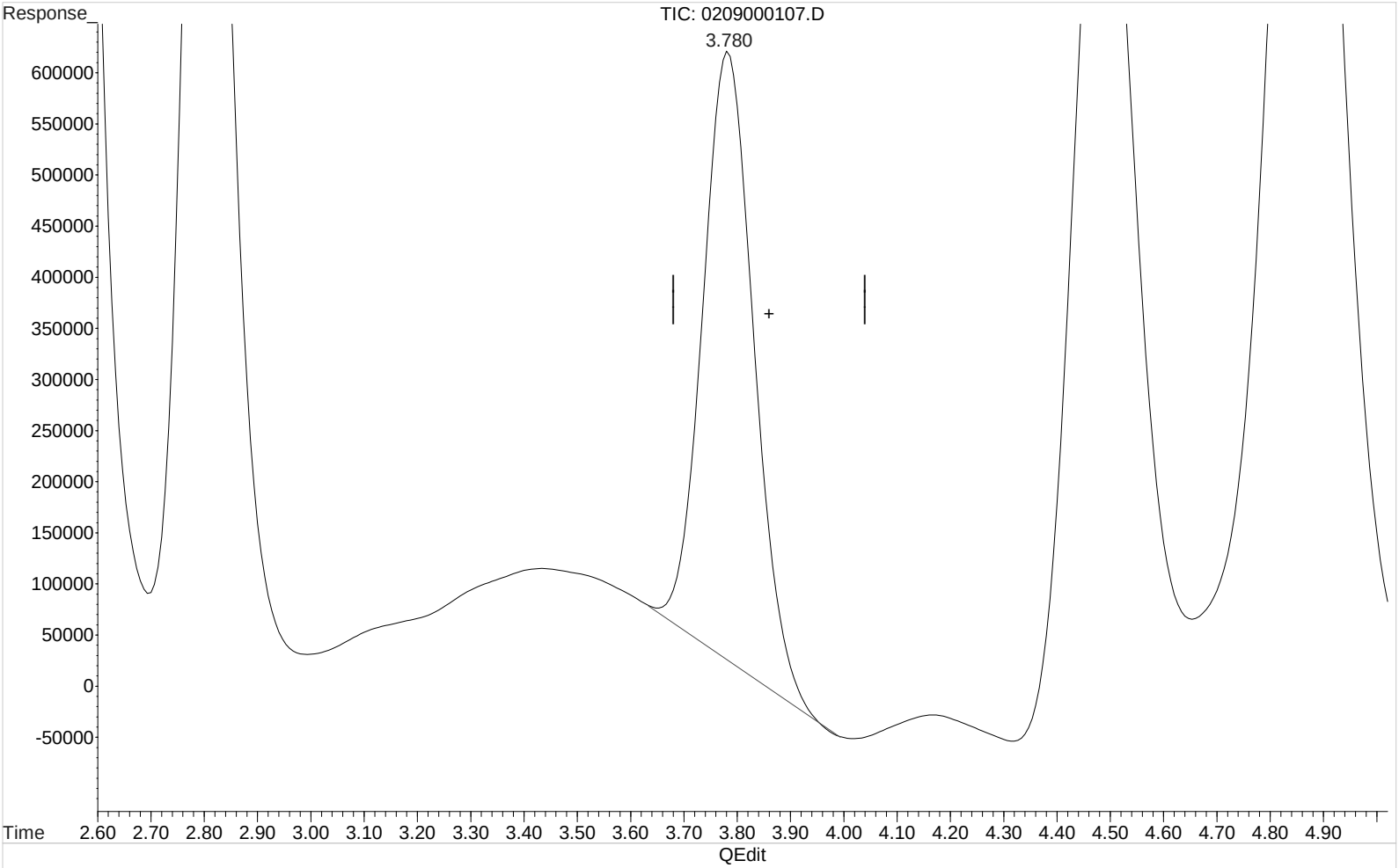
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:42 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.780min 186.571 ug/L m

response 3978902

Manual Integration:

After

BLC

02/10/17

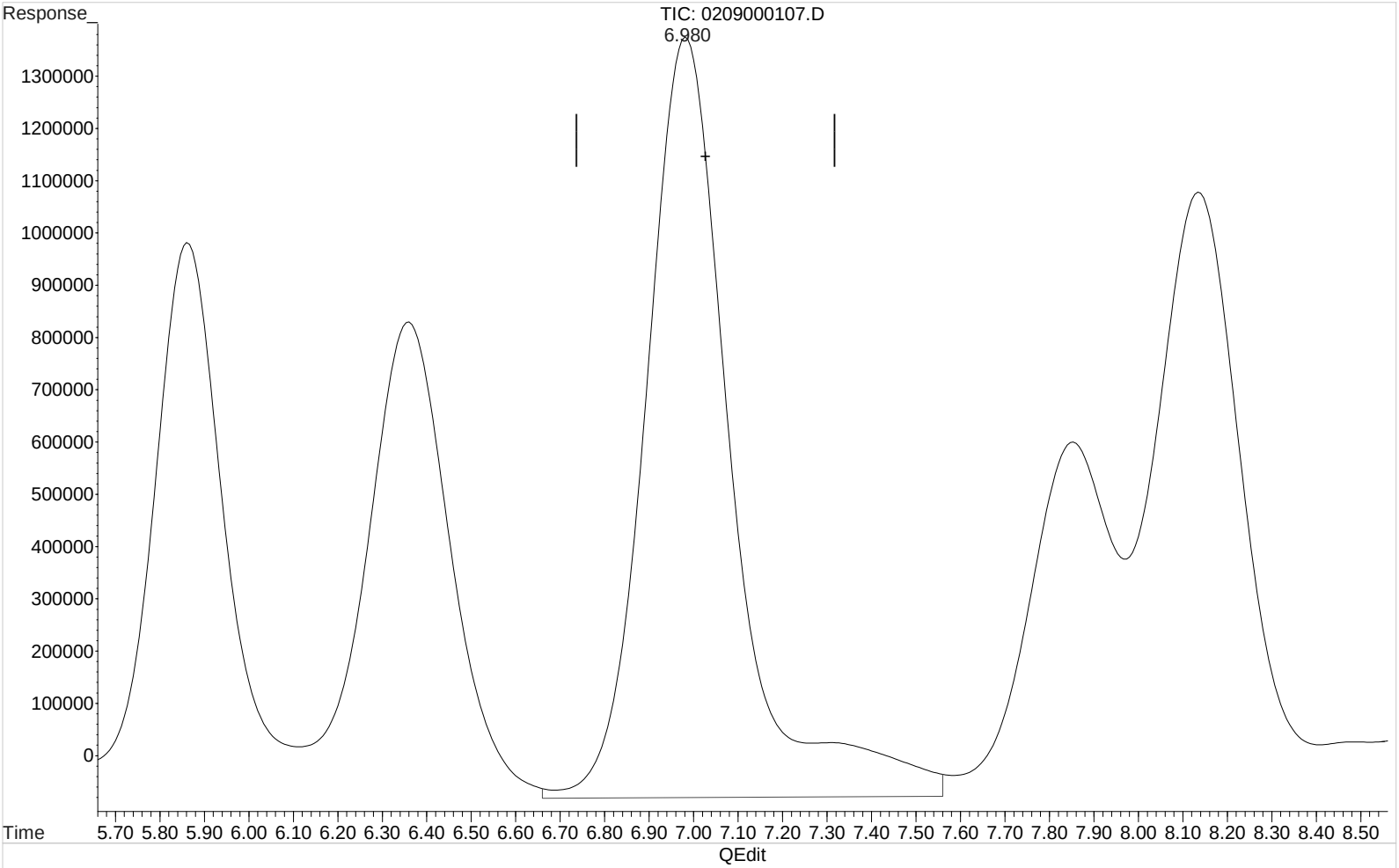
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:42 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.980min 240.910 ug/L

response 19621034

Manual Integration:

Before

02/10/17

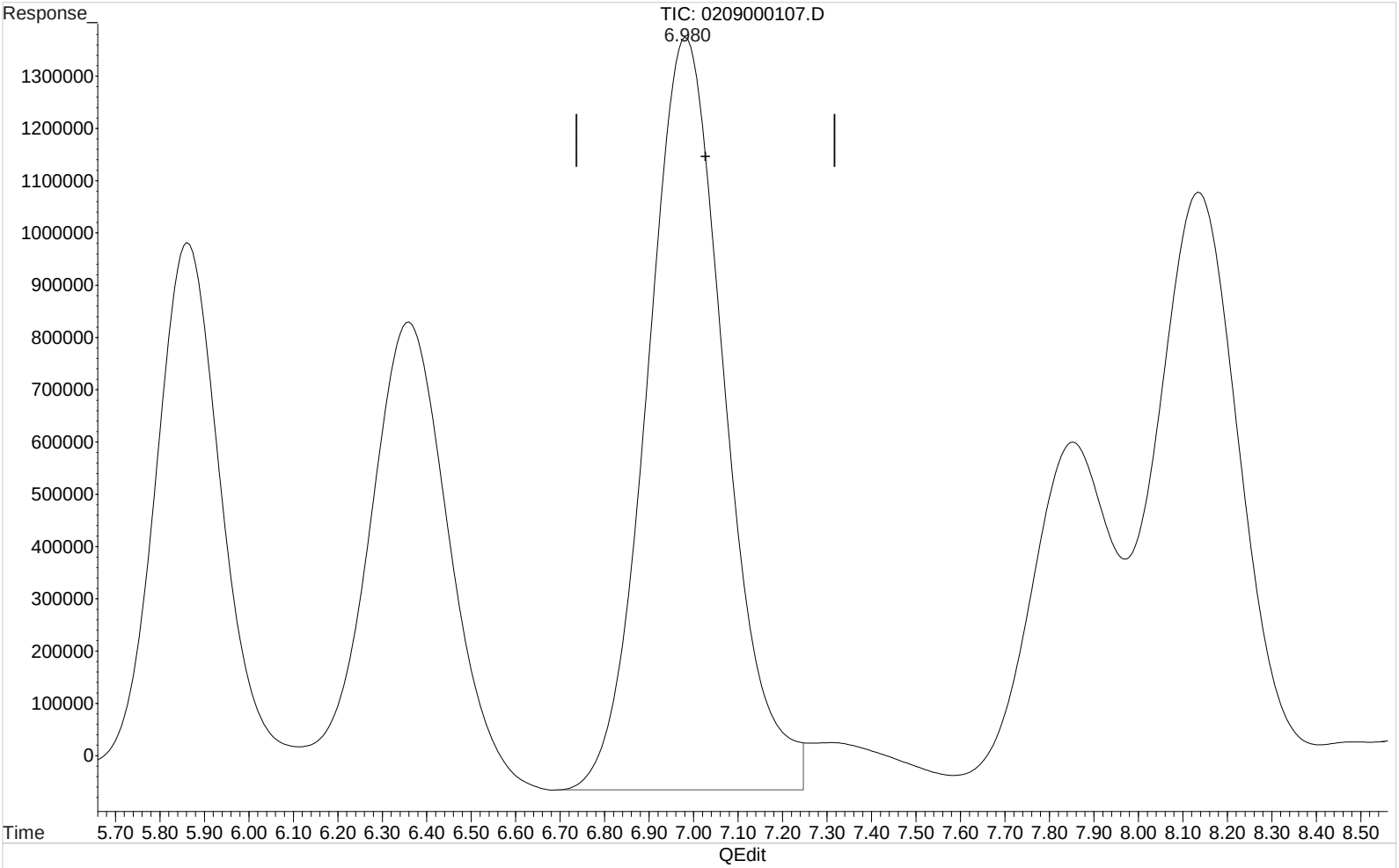
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:42 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.980min 215.684 ug/L m

response 17566508

Manual Integration:

After

BLC

02/10/17

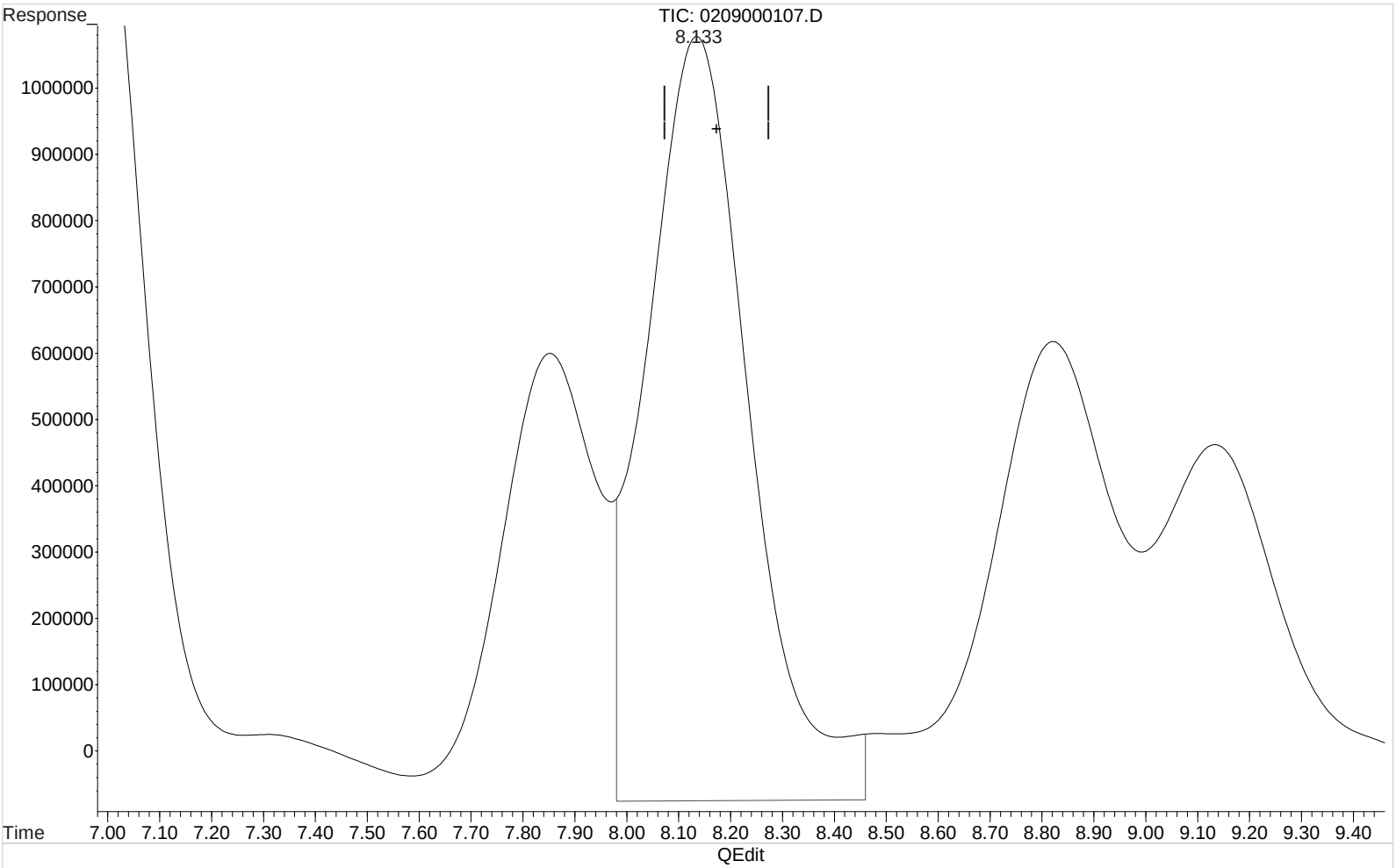
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:42 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

8.133min 225.281 ug/L

response 15778076

Manual Integration:

Before

02/10/17

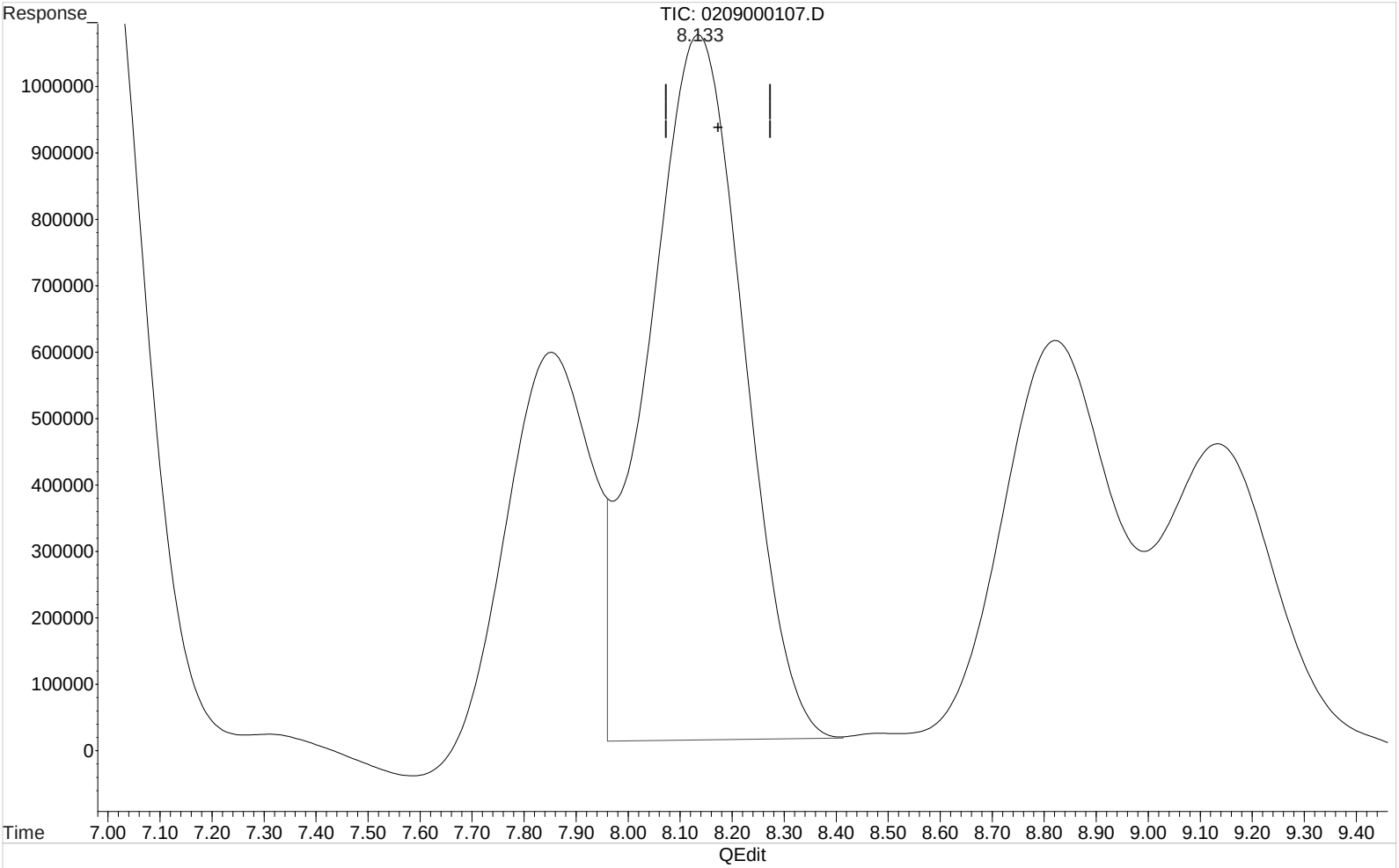
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:42 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.133min 193.631 ug/L m

response 13561422

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000108.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:14 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:27:33 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	8.153	35971989	516.422 ug/L
Target Compounds				
1) T	Nitroglycerin	3.800	11272556	534.680 ug/L m
2) T	PETN	6.993	42145946	521.117 ug/L m

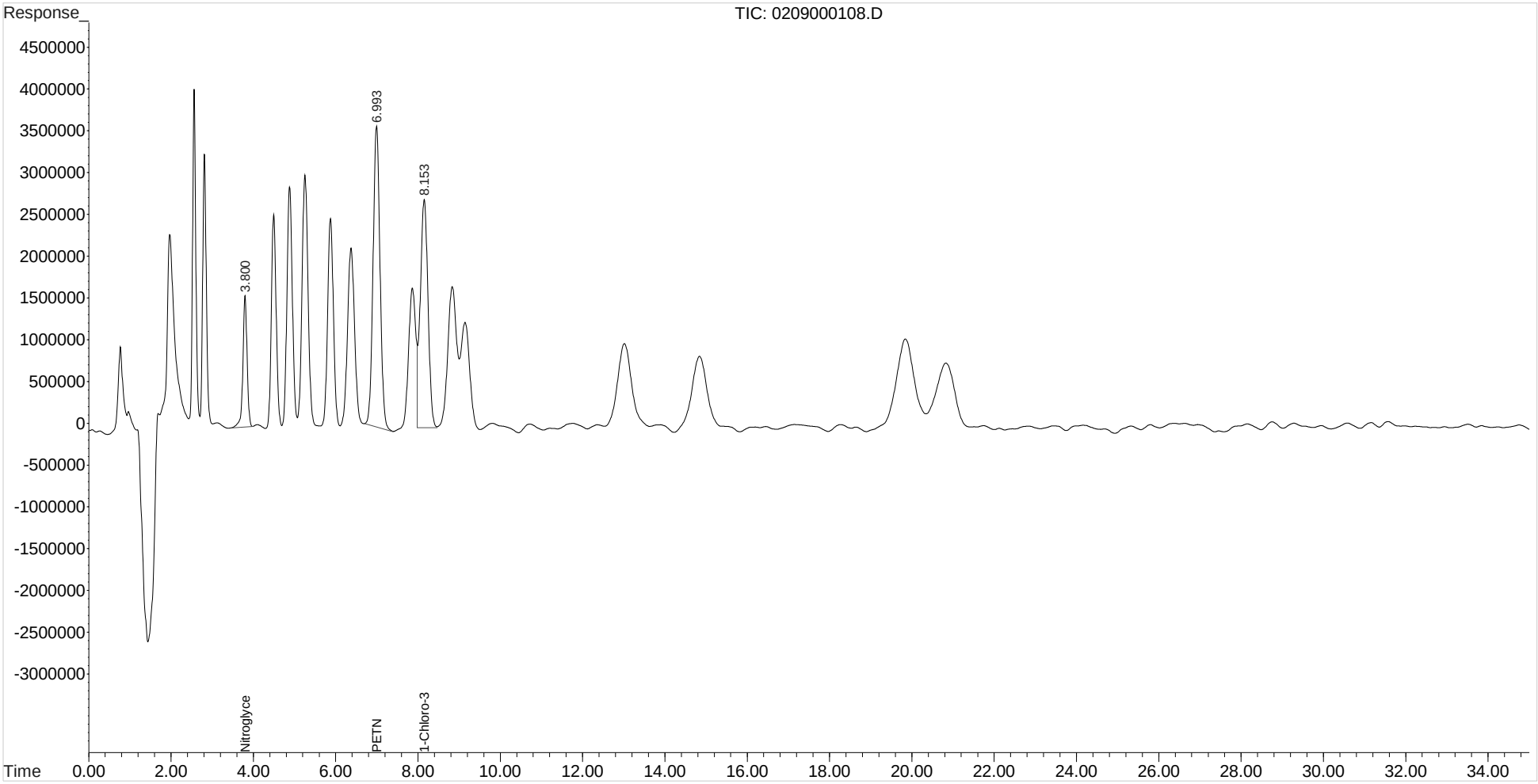
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000108.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:14 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:27:33 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

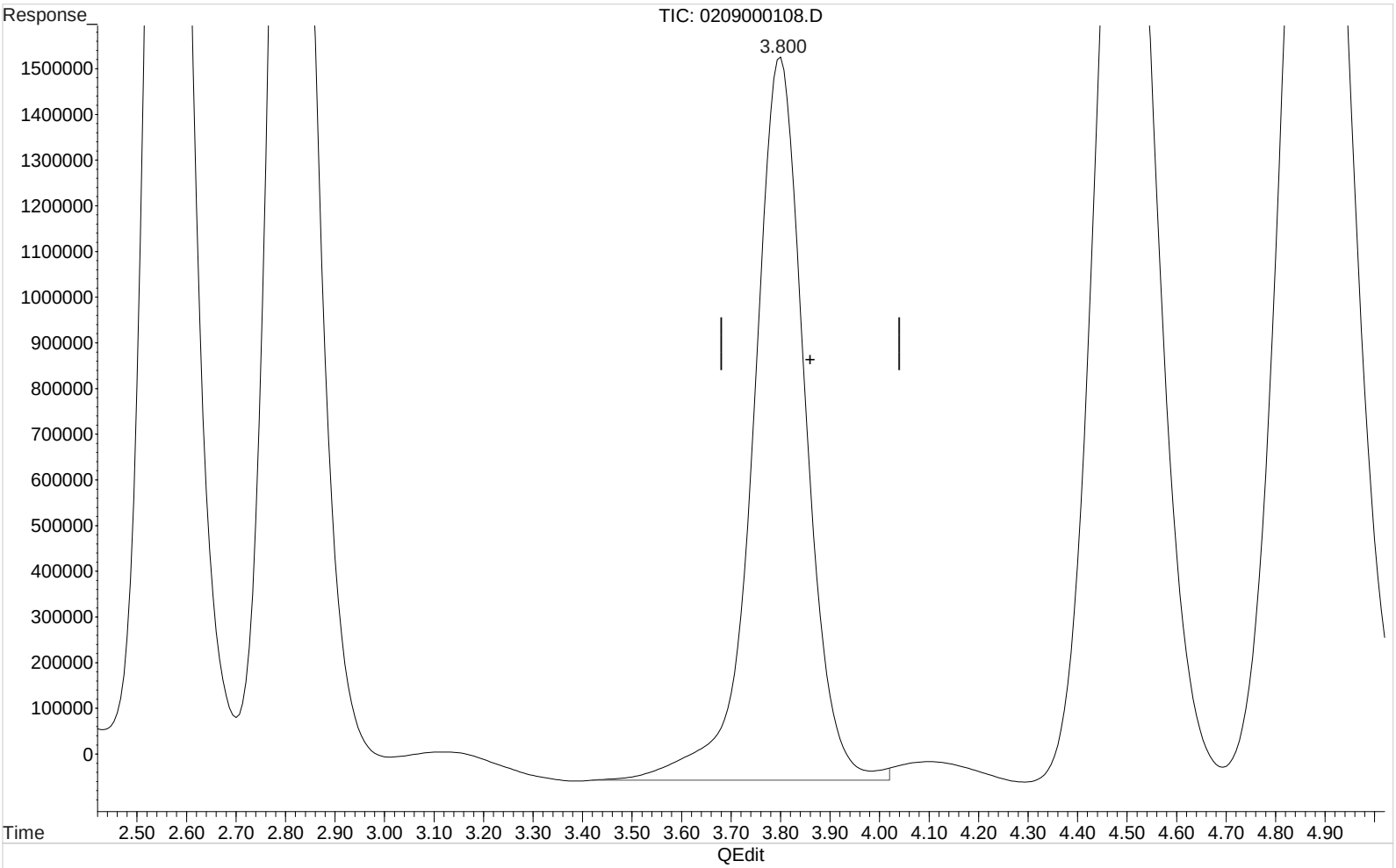


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000108.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:43 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:27:33 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.800min 552.022 ug/L

response 11638168

Manual Integration:

Before

02/10/17

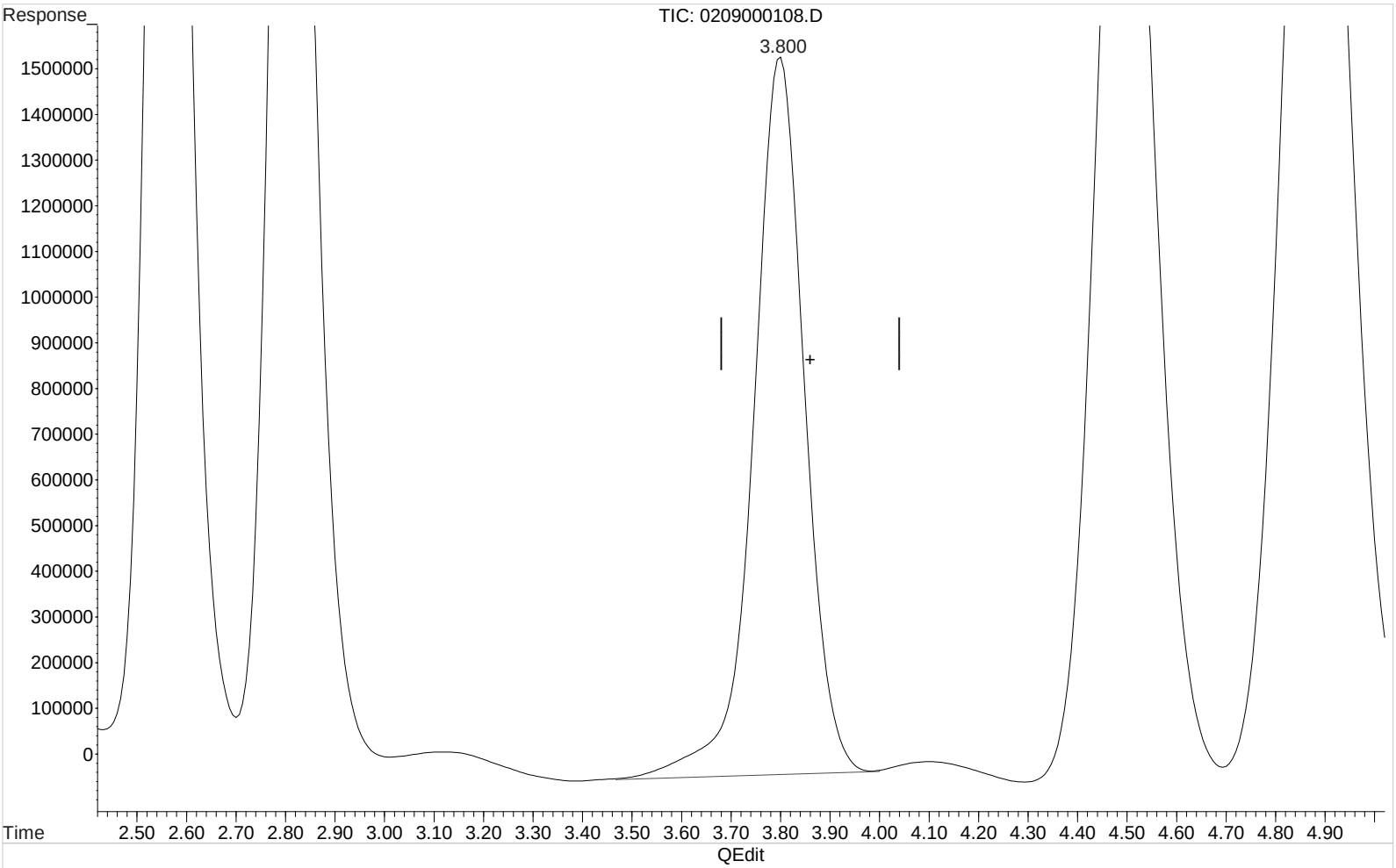
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000108.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:43 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:27:33 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.800min 534.680 ug/L m

response 11272556

Manual Integration:

After

BLC

02/10/17

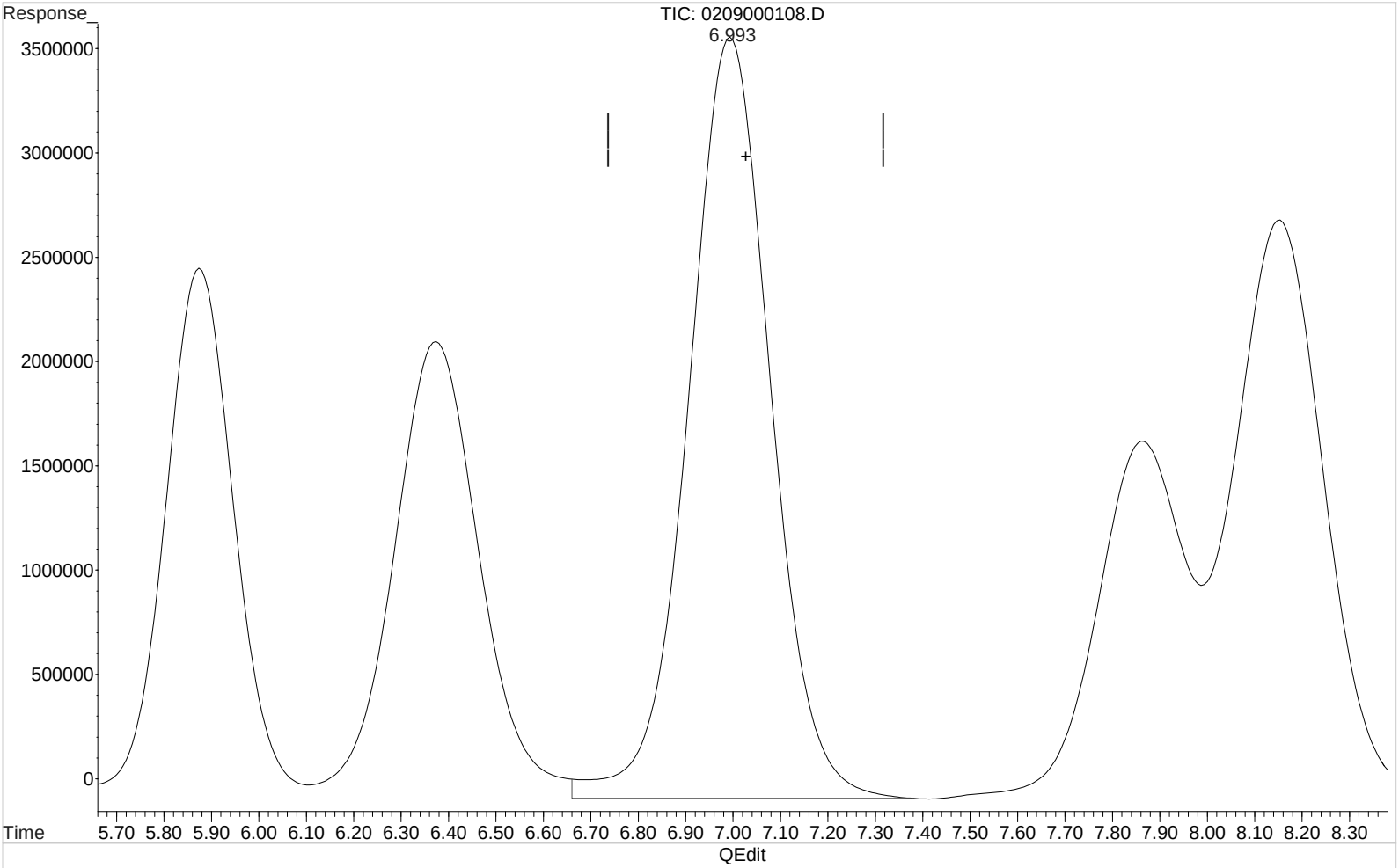
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000108.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:43 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:27:33 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.993min 544.802 ug/L

response 44061458

Manual Integration:

Before

02/10/17

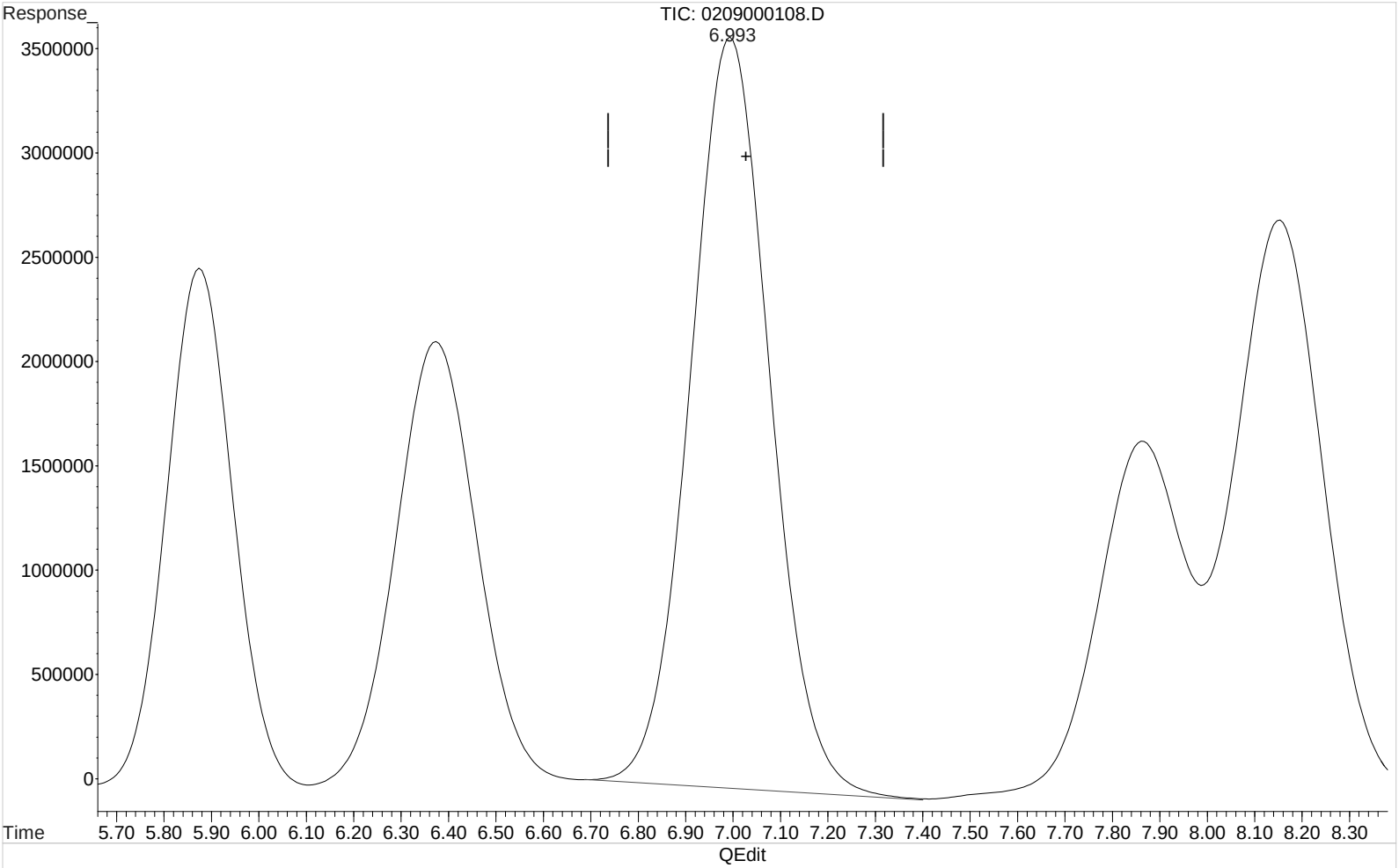
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000108.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:43 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:27:33 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.993min 521.117 ug/L m

response 42145946

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:23 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:26:45 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	8.140	69921036	1004.758	ug/L	
Target Compounds						
1) T	Nitroglycerin	3.793	21356542	1016.282	ug/L	m
2) T	PETN	6.987	82490148	1025.070	ug/L	m

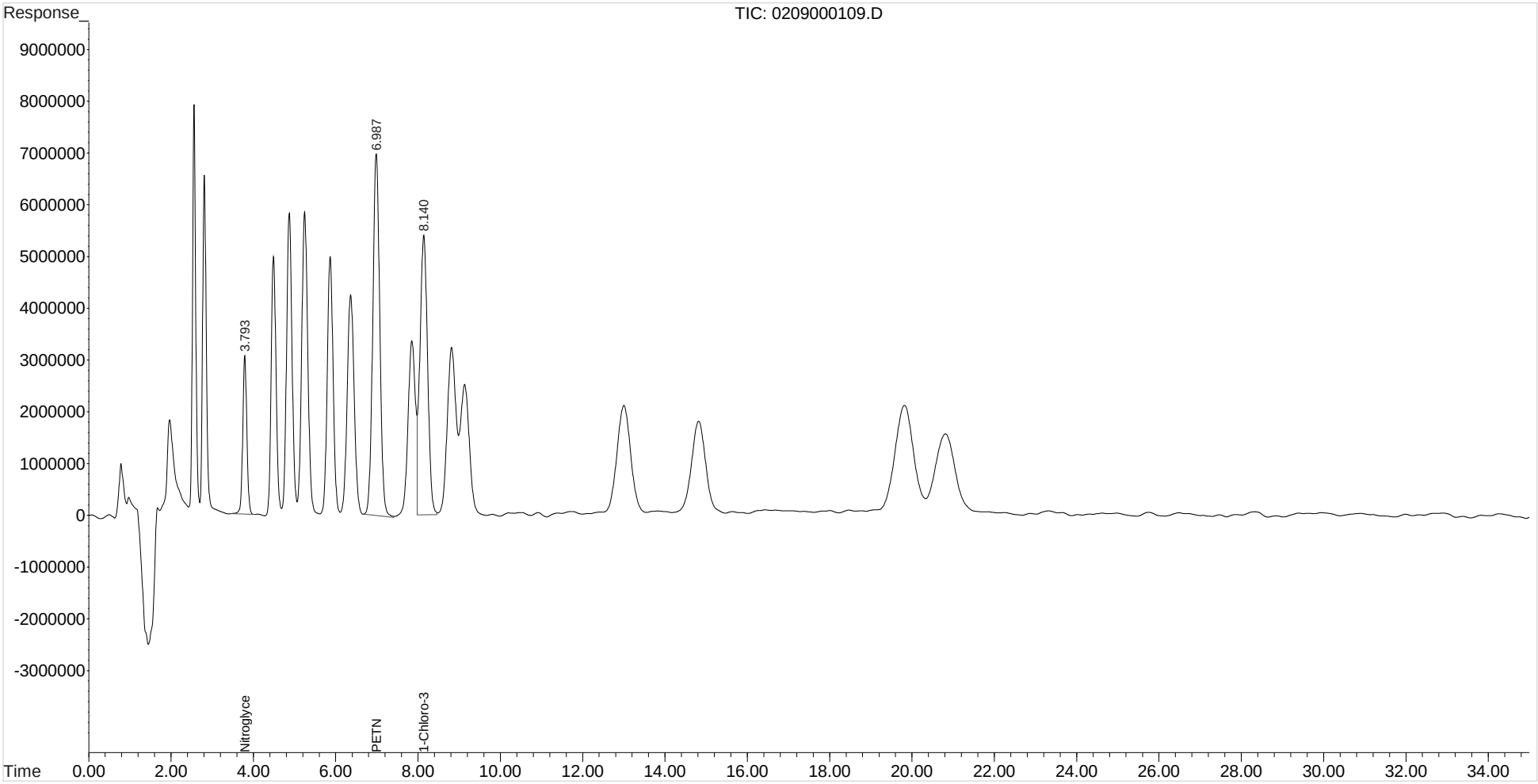
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:23 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:26:45 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(b) (6)

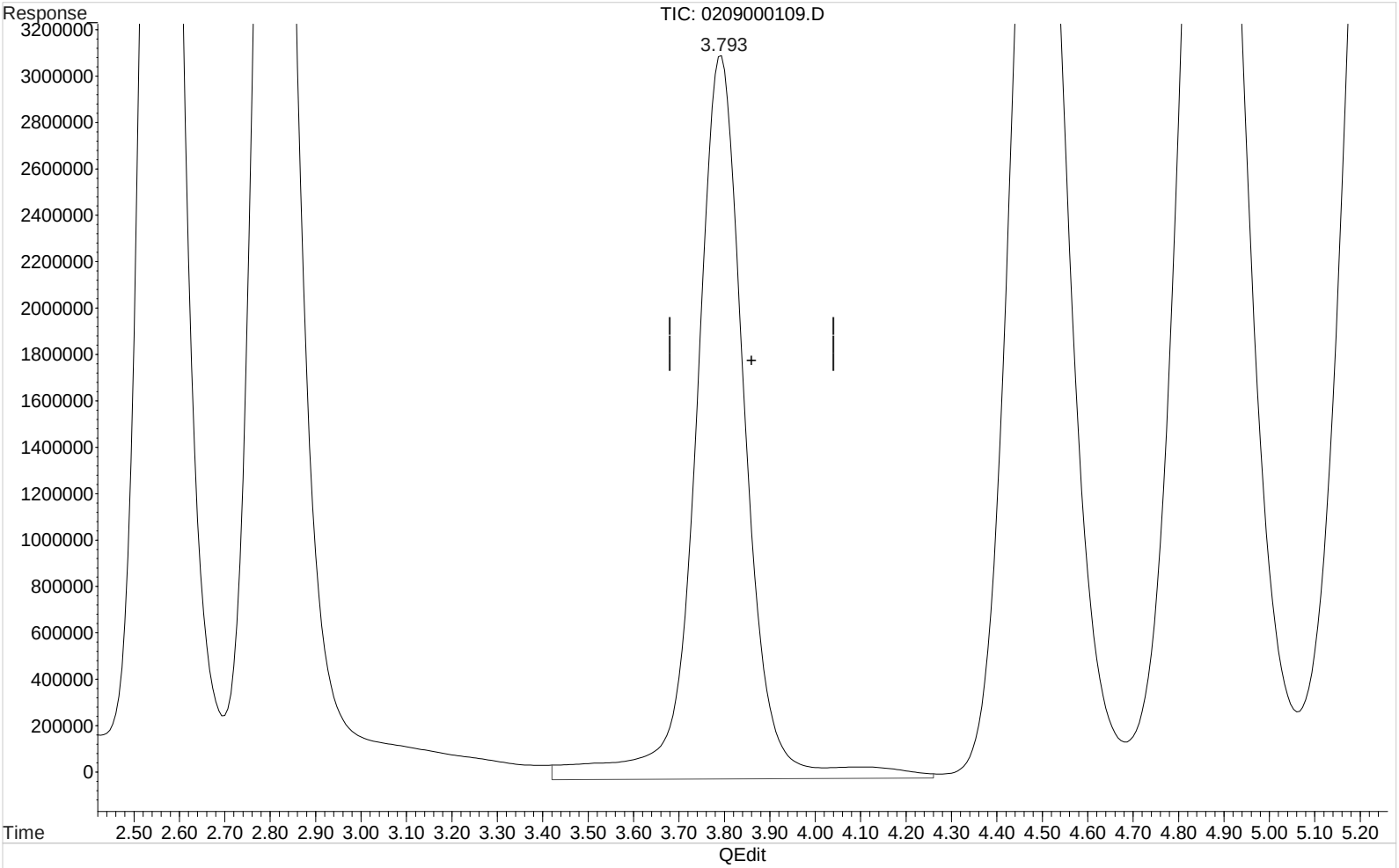
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-210\0209000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:01 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:26:45 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.793min 1137.163 ug/L

response 23896782

Manual Integration:

Before

02/10/17

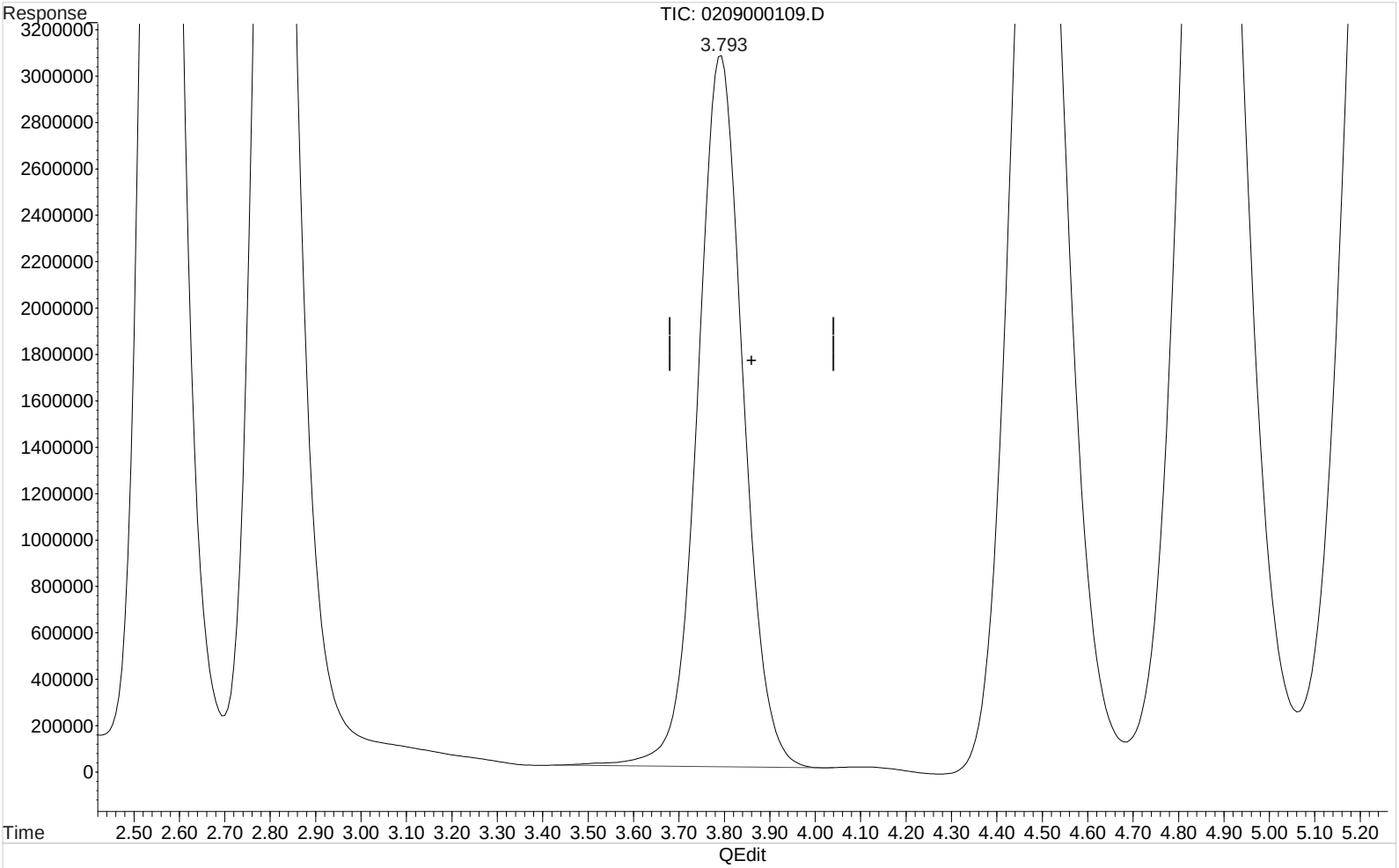
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:01 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:26:45 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.793min 1016.282 ug/L m

response 21356542

Manual Integration:

After

BLC

02/10/17

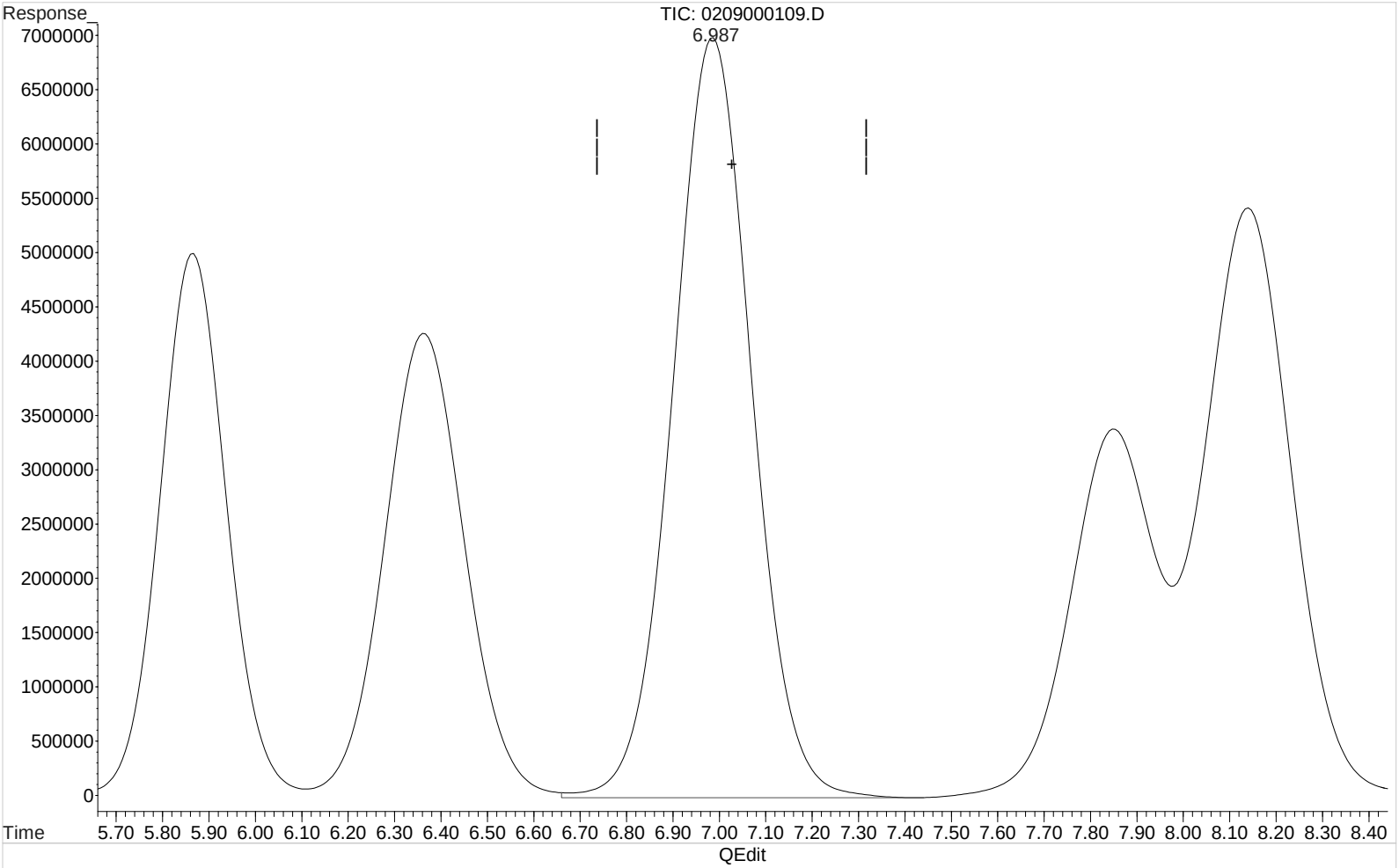
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:01 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:26:45 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.987min 1031.524 ug/L

response 83009500

Manual Integration:

Before

02/10/17

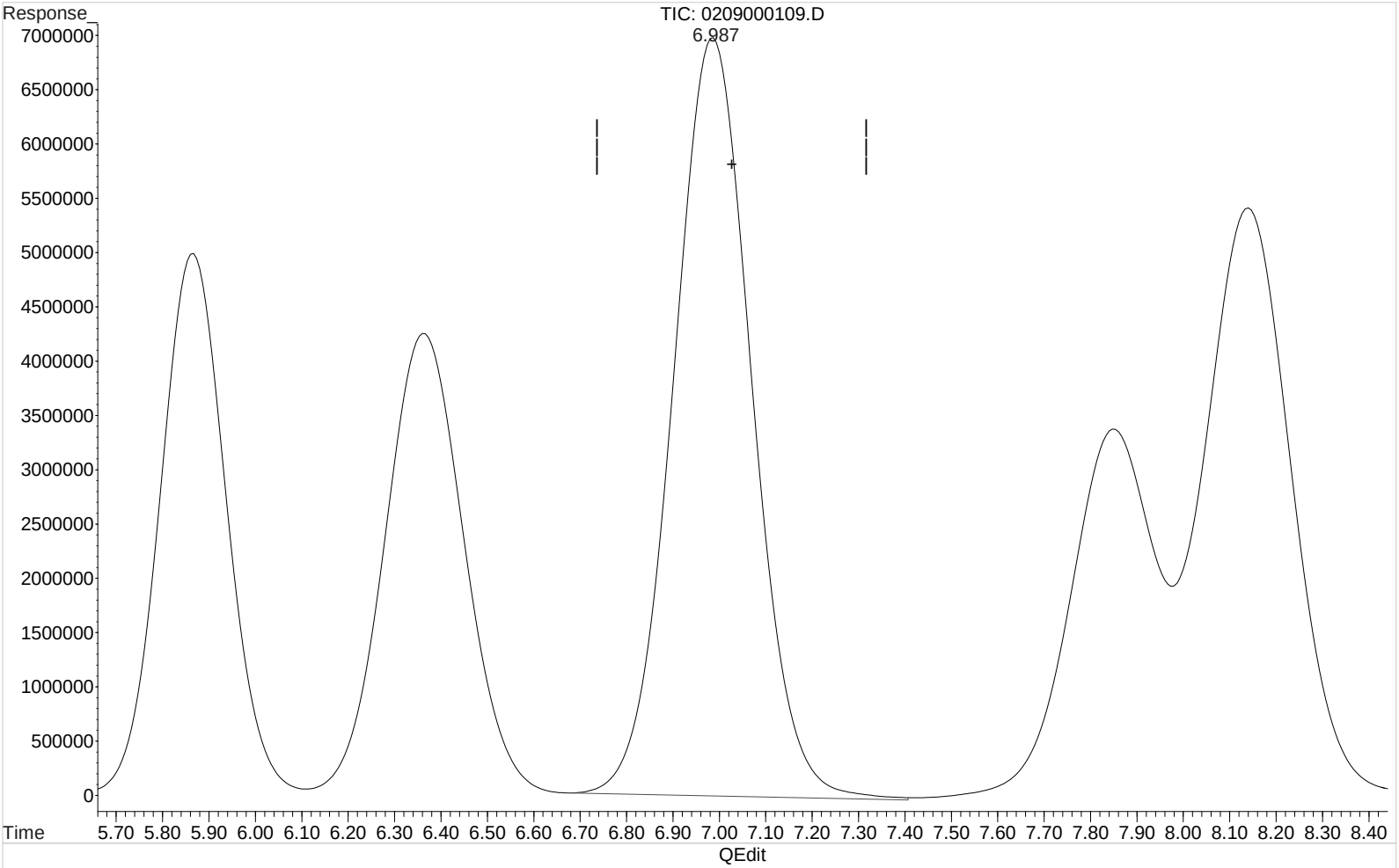
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:01 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:26:45 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.987min 1025.070 ug/L m

response 82490148

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:26:26 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	8.140	139414192	2004.492	ug/L	m
Target Compounds						
1) T	Nitroglycerin	3.793	42551590	2033.310	ug/L	m
2) T	PETN	6.987	162597336	2027.466	ug/L	m

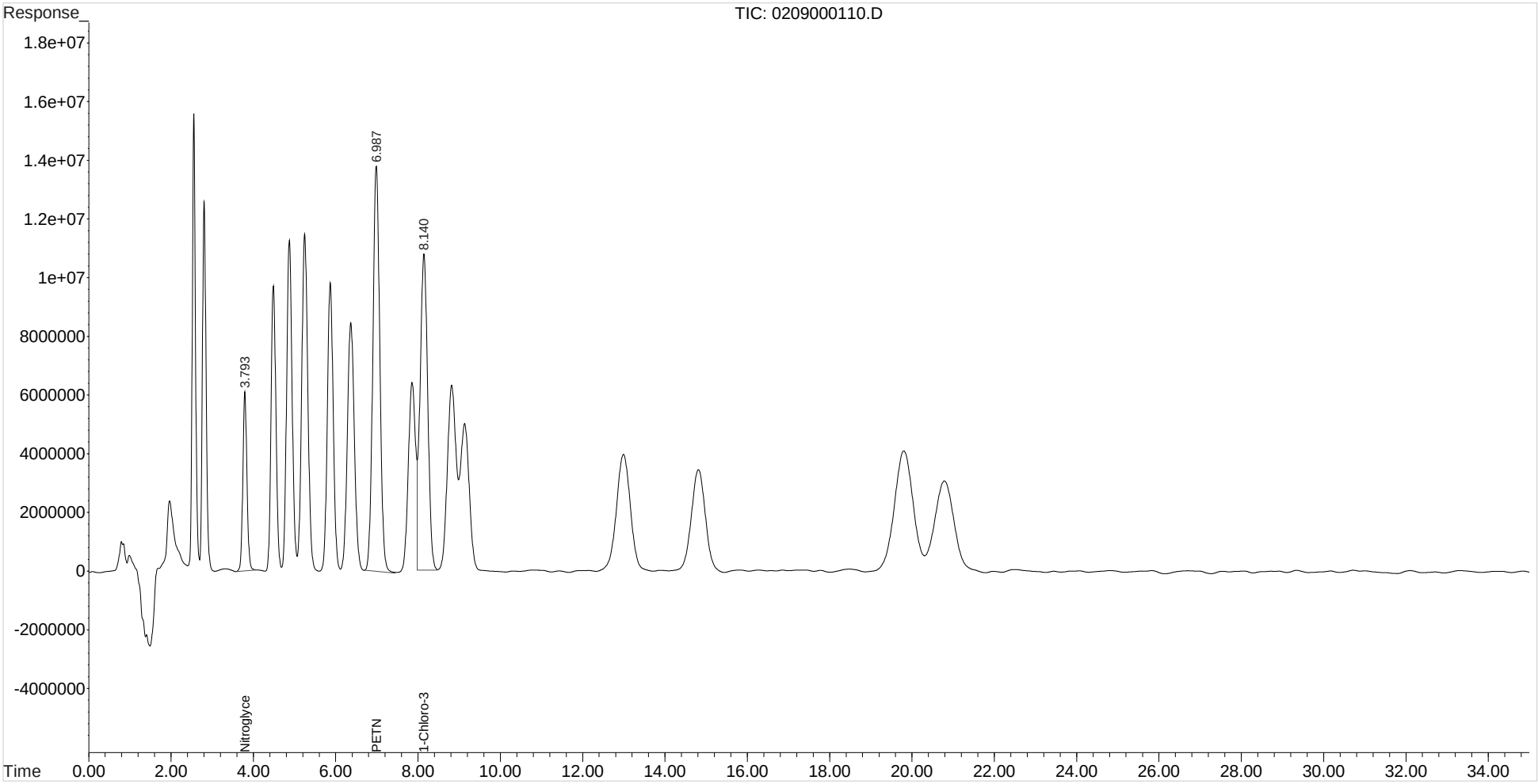
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:26:26 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

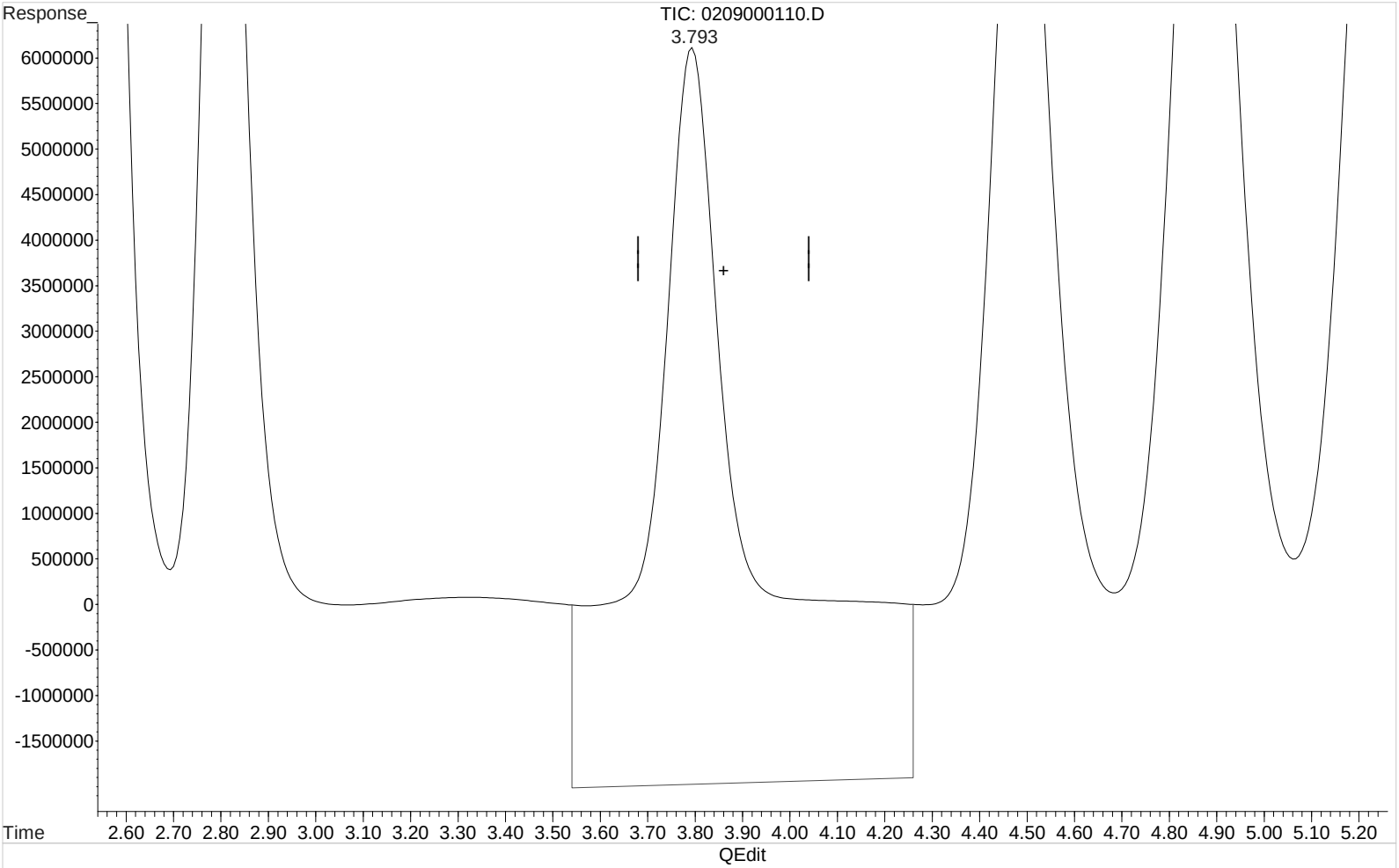


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:58 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.793min 6103.062 ug/L

response 127720293

Manual Integration:

Before

02/10/17

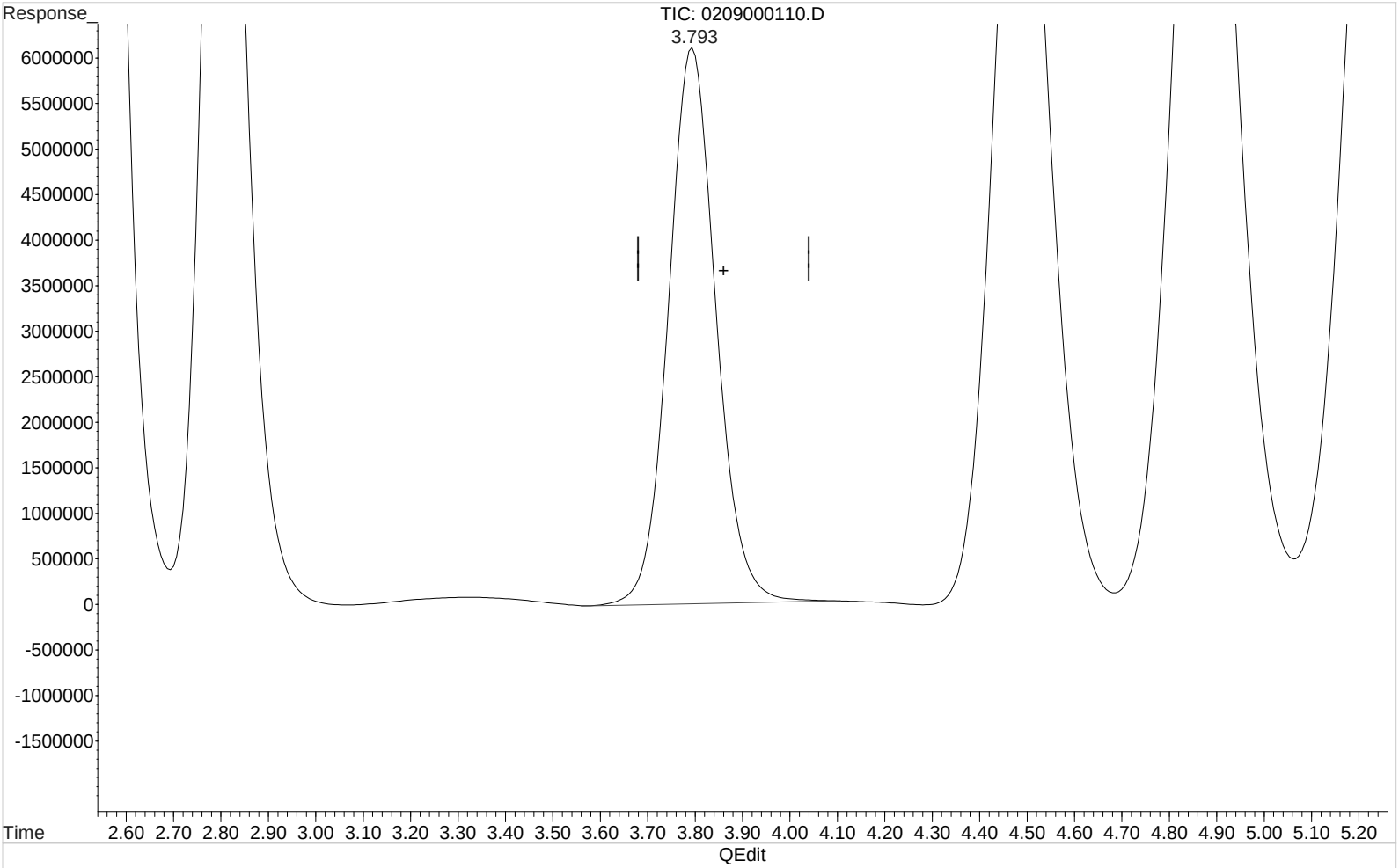
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:58 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.793min 2033.310 ug/L m

response 42551590

Manual Integration:

After

BLC

02/10/17

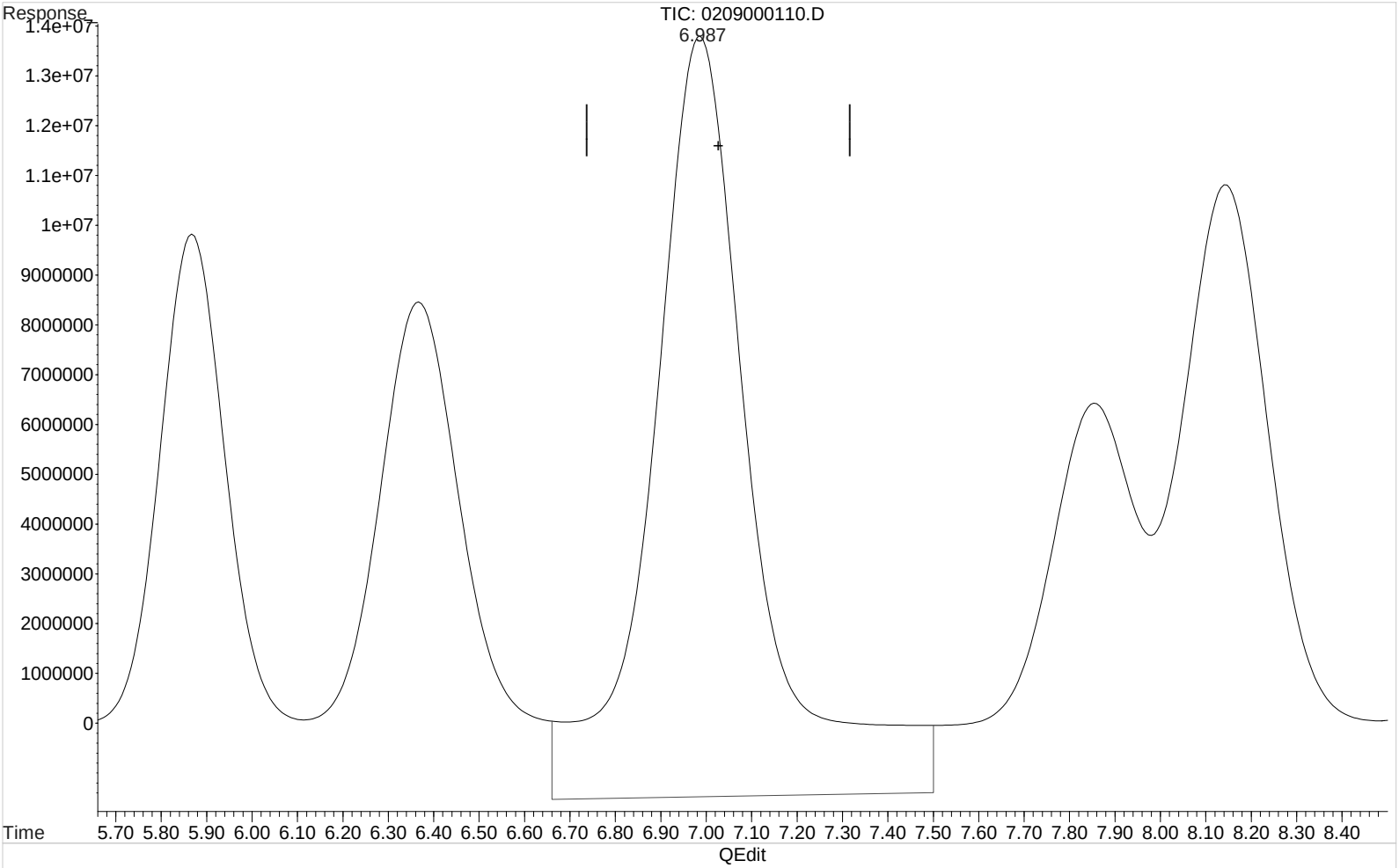
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:58 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.987min 2934.380 ug/L

response 235329399

Manual Integration:

Before

02/10/17

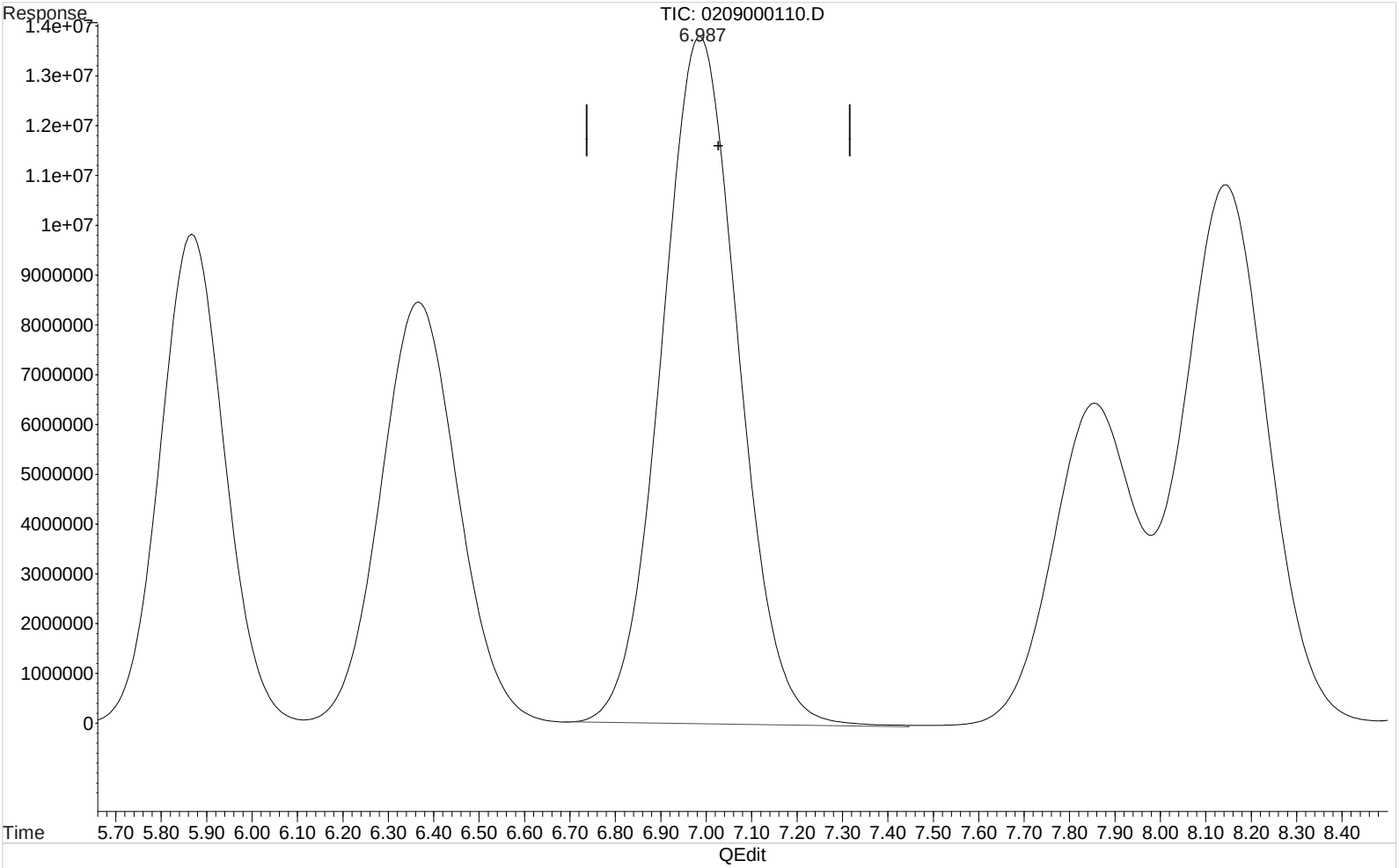
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:58 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.987min 2027.466 ug/L m

response 162597336

Manual Integration:

After

BLC

02/10/17

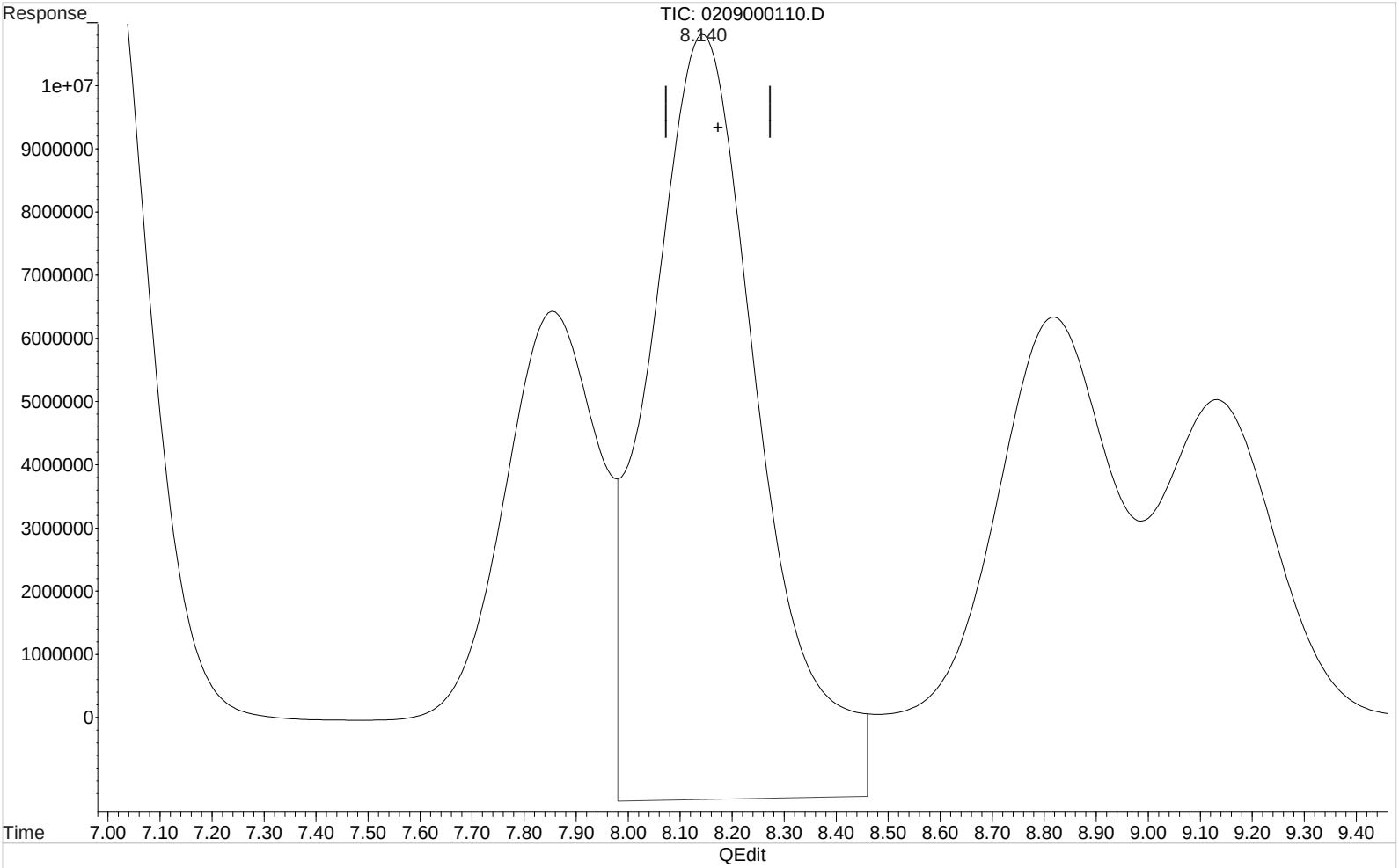
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:58 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.140min 2549.905 ug/L

response 177348124

Manual Integration:

Before

02/10/17

(+) = Expected Retention Time

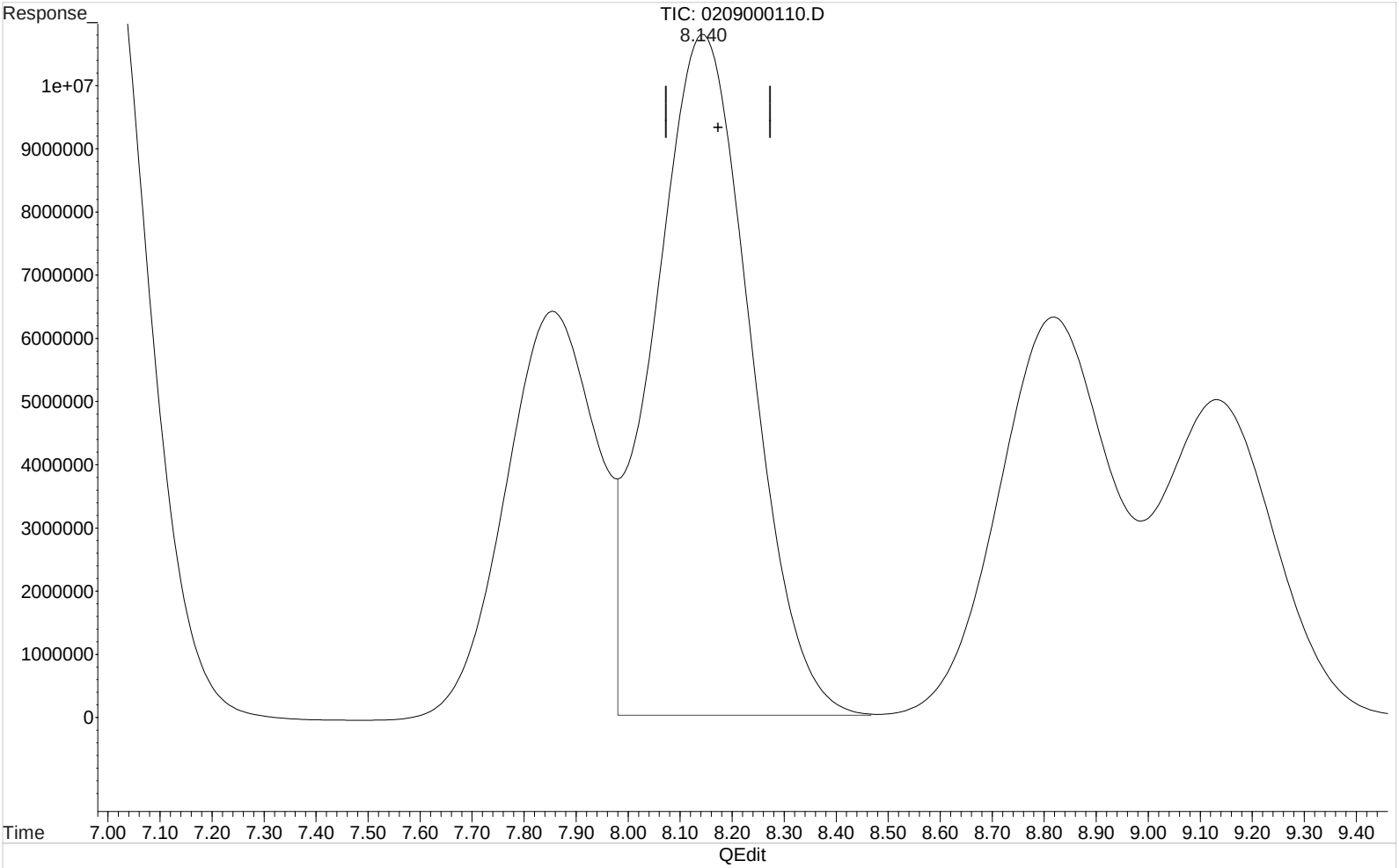
020917_Short_8330B@210.M Fri Feb 10 10:26:22 2017 Page: 1

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:58 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.140min 2004.492 ug/L m

response 139414192

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000111.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:40 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:08 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	8.147	351298284	5076.822	ug/L	
Target Compounds						
1) T	Nitroglycerin	3.787	104644653	5000.603	ug/L	m
2) T	PETN	6.987	405313182	5081.362	ug/L	m

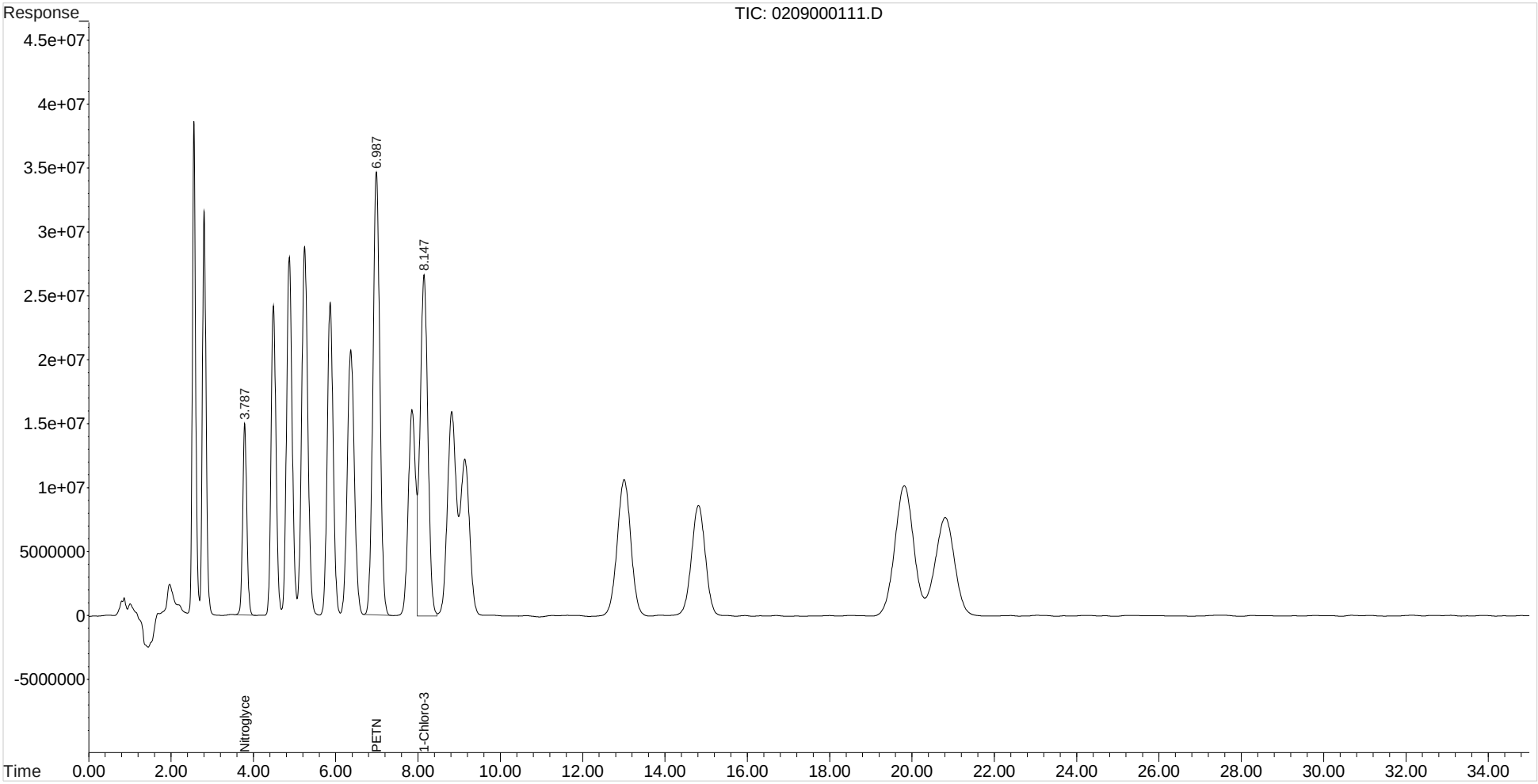
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000111.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:40 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:08 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

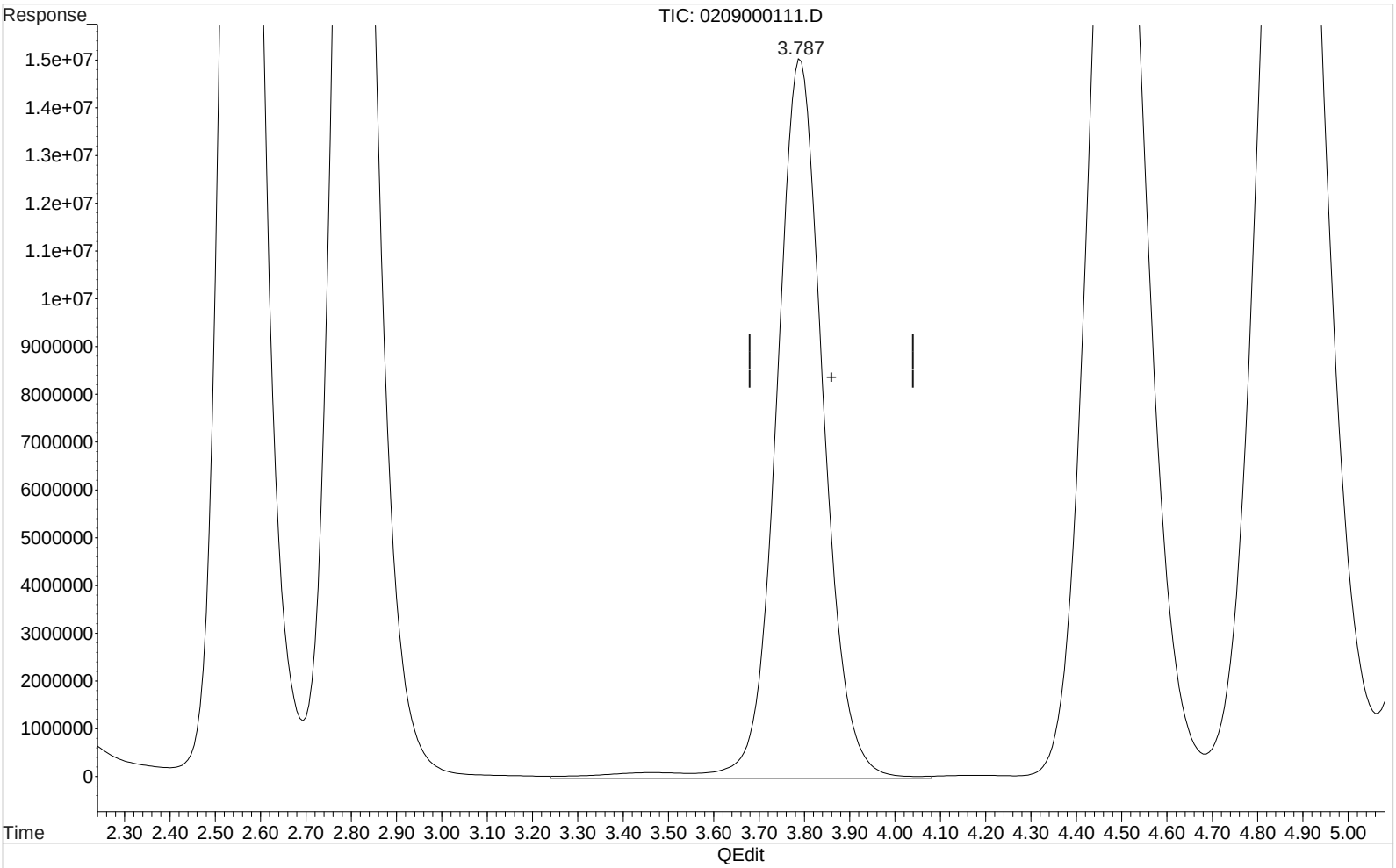


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000111.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:08 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.787min 5213.557 ug/L

response 109101011

Manual Integration:

Before

02/10/17

(+) = Expected Retention Time

(b) (6)

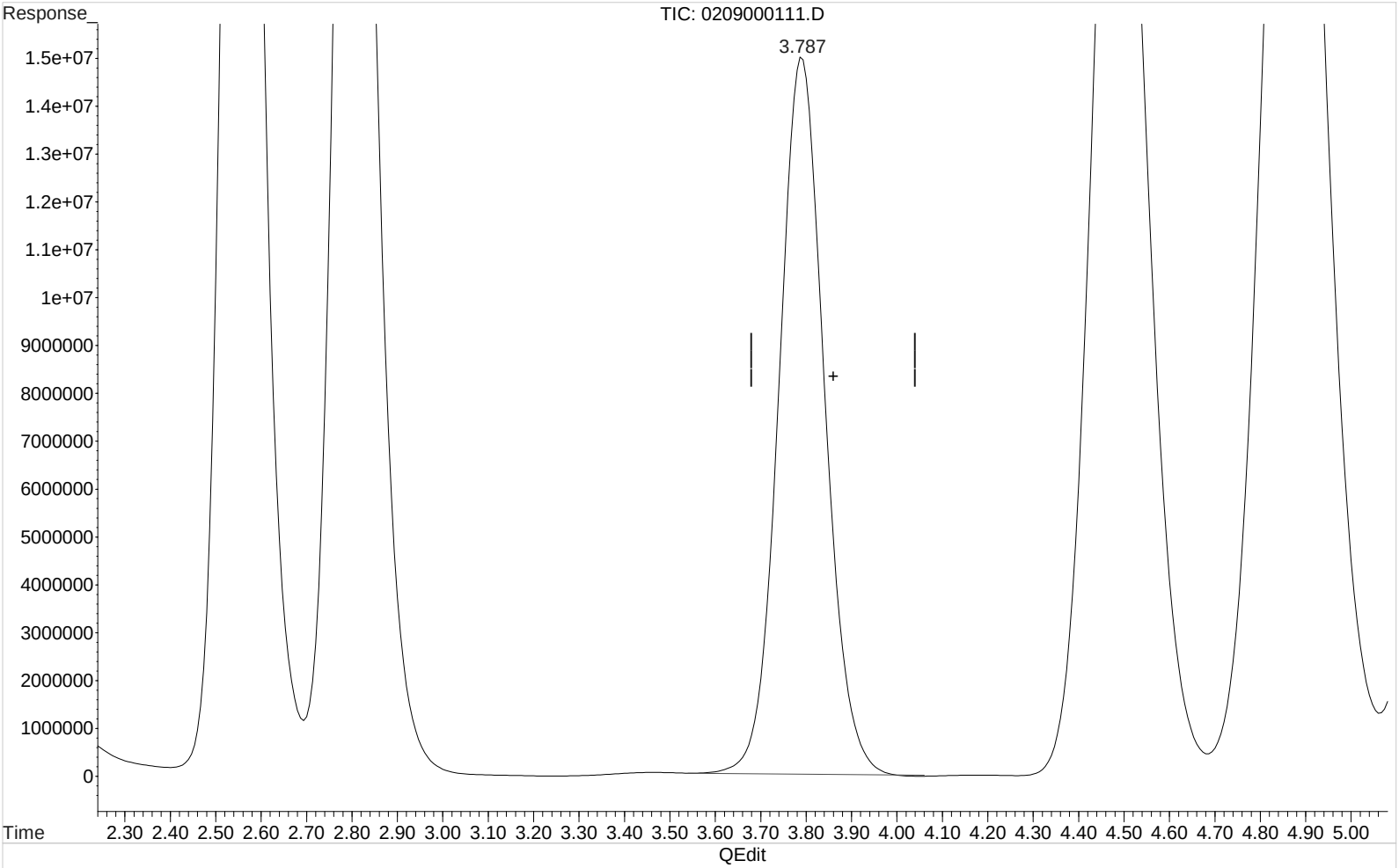
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-210\0209000111.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:08 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.787min 5000.603 ug/L m

response 104644653

Manual Integration:

After

BLC

02/10/17

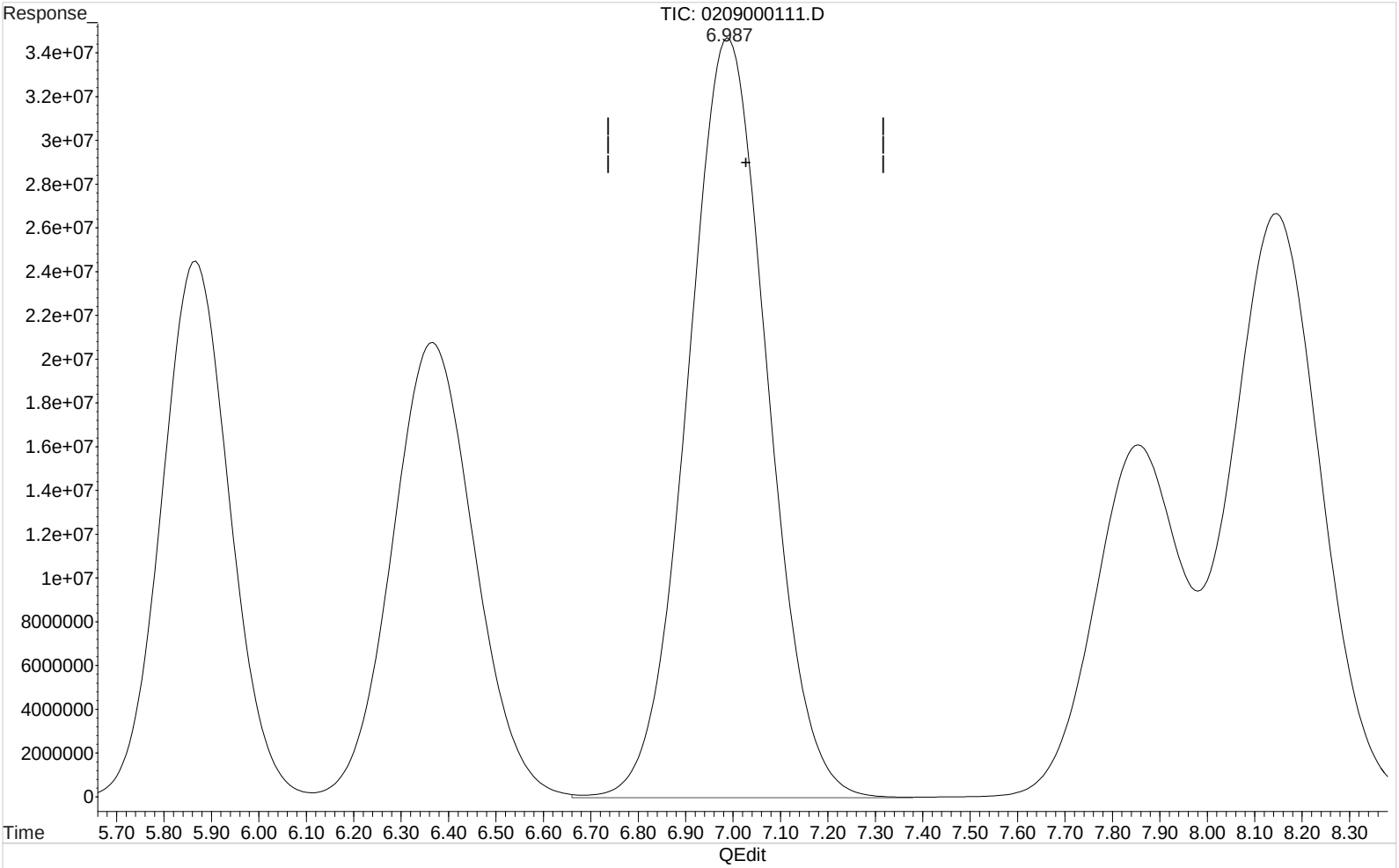
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000111.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:08 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.987min 5129.172 ug/L

response 409126699

Manual Integration:

Before

02/10/17

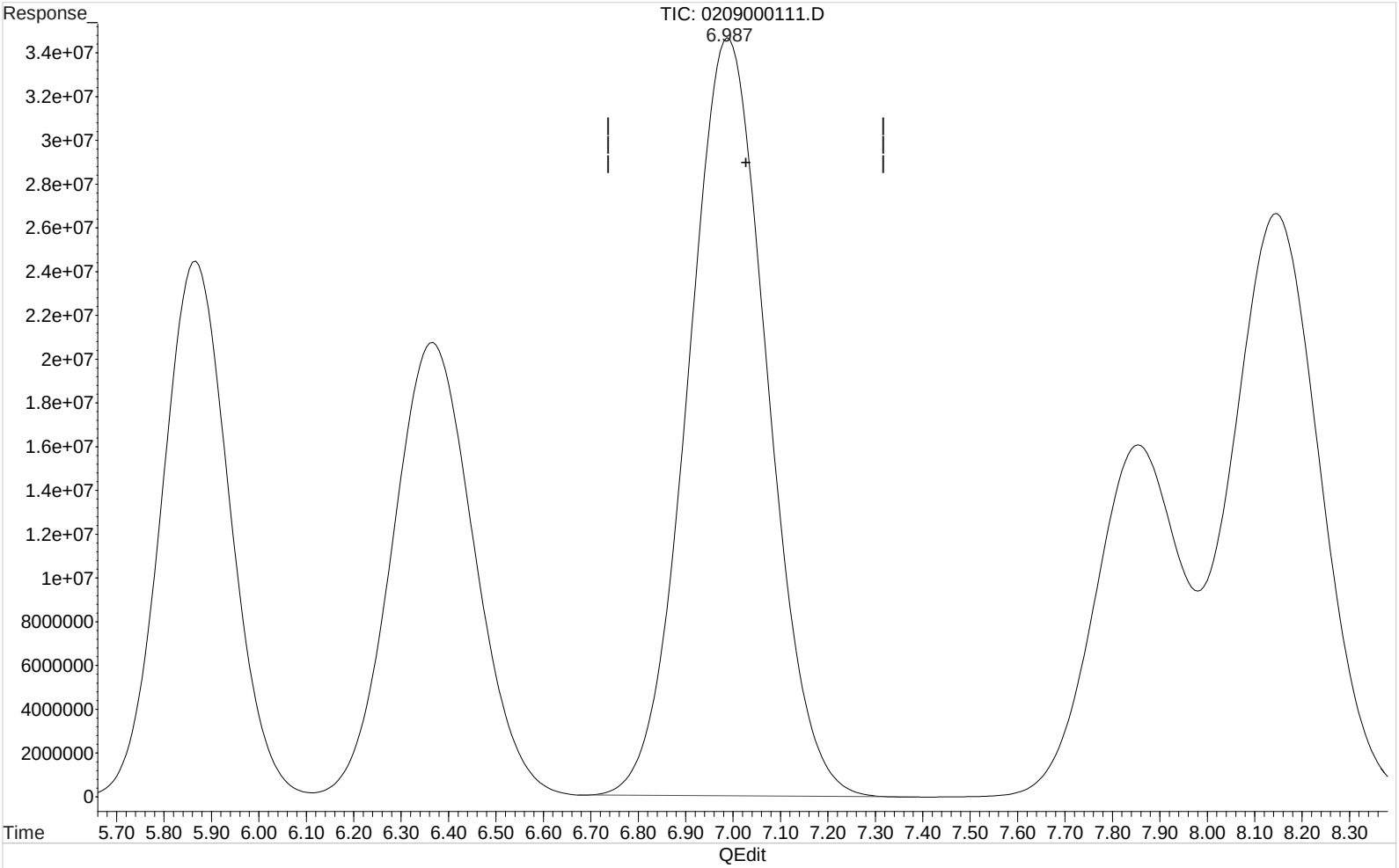
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000111.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:08 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.987min 5081.362 ug/L m

response 405313182

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000112.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:24:52 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:24:06 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	8.147	689768693	9936.722	ug/L	
Target Compounds						
1) T	Nitroglycerin	3.793	210346801	10104.020	ug/L	m
2) T	PETN	6.987	805997758	10211.609	ug/L	m

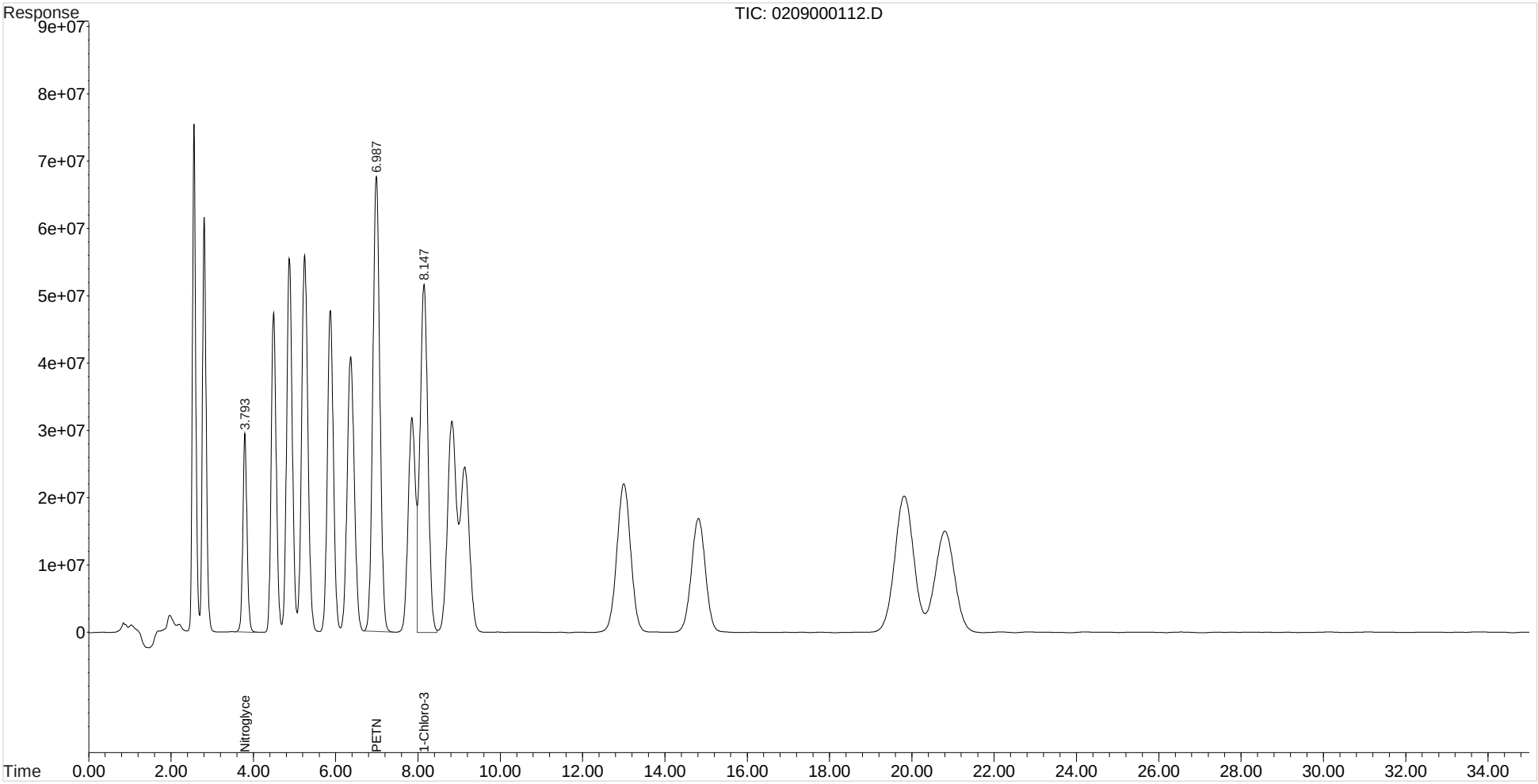
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000112.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:24:52 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:24:06 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

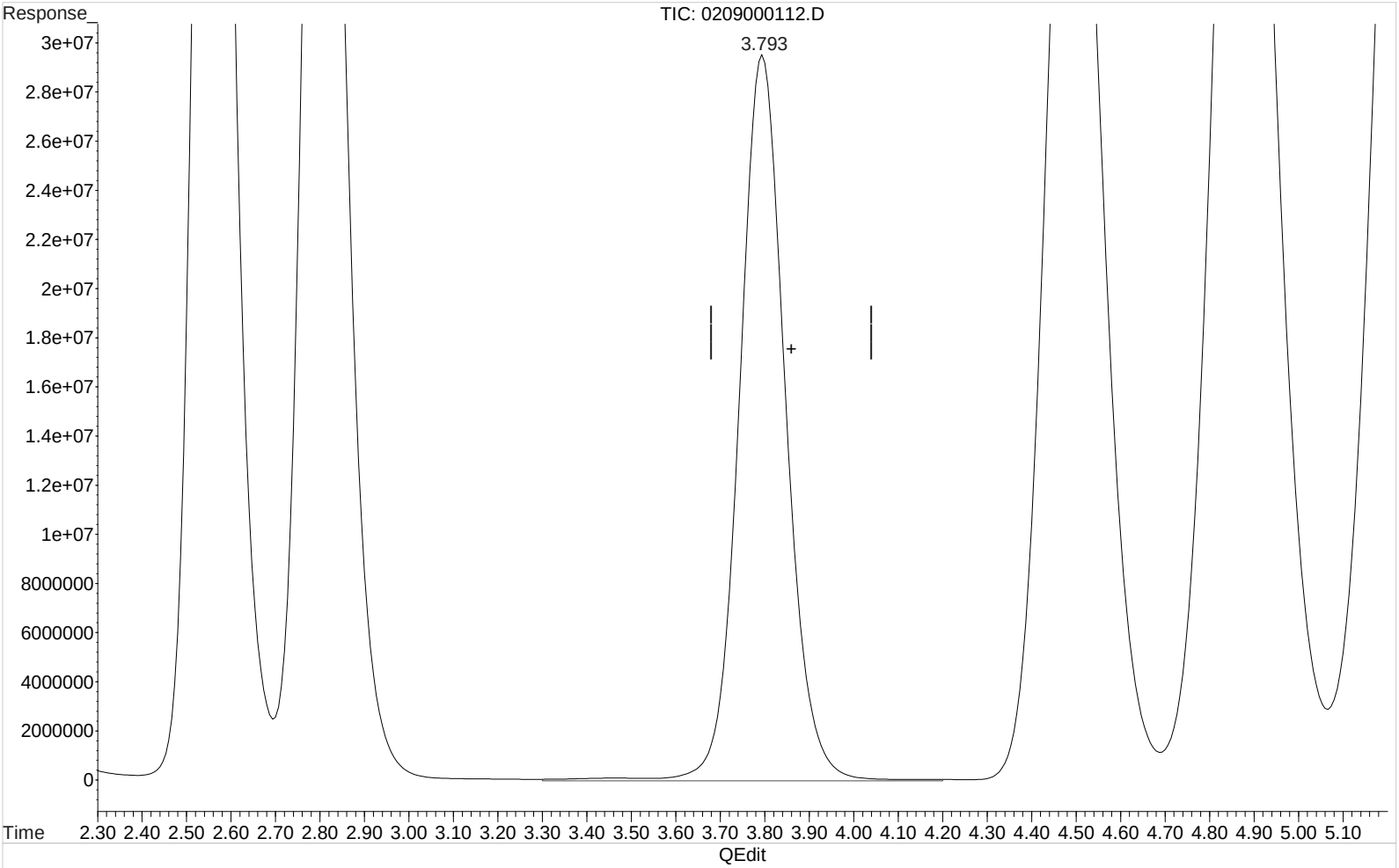


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000112.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:24:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:24:06 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.793min 10277.587 ug/L

response 213960148

Manual Integration:

Before

02/10/17

(+) = Expected Retention Time

(b) (6)

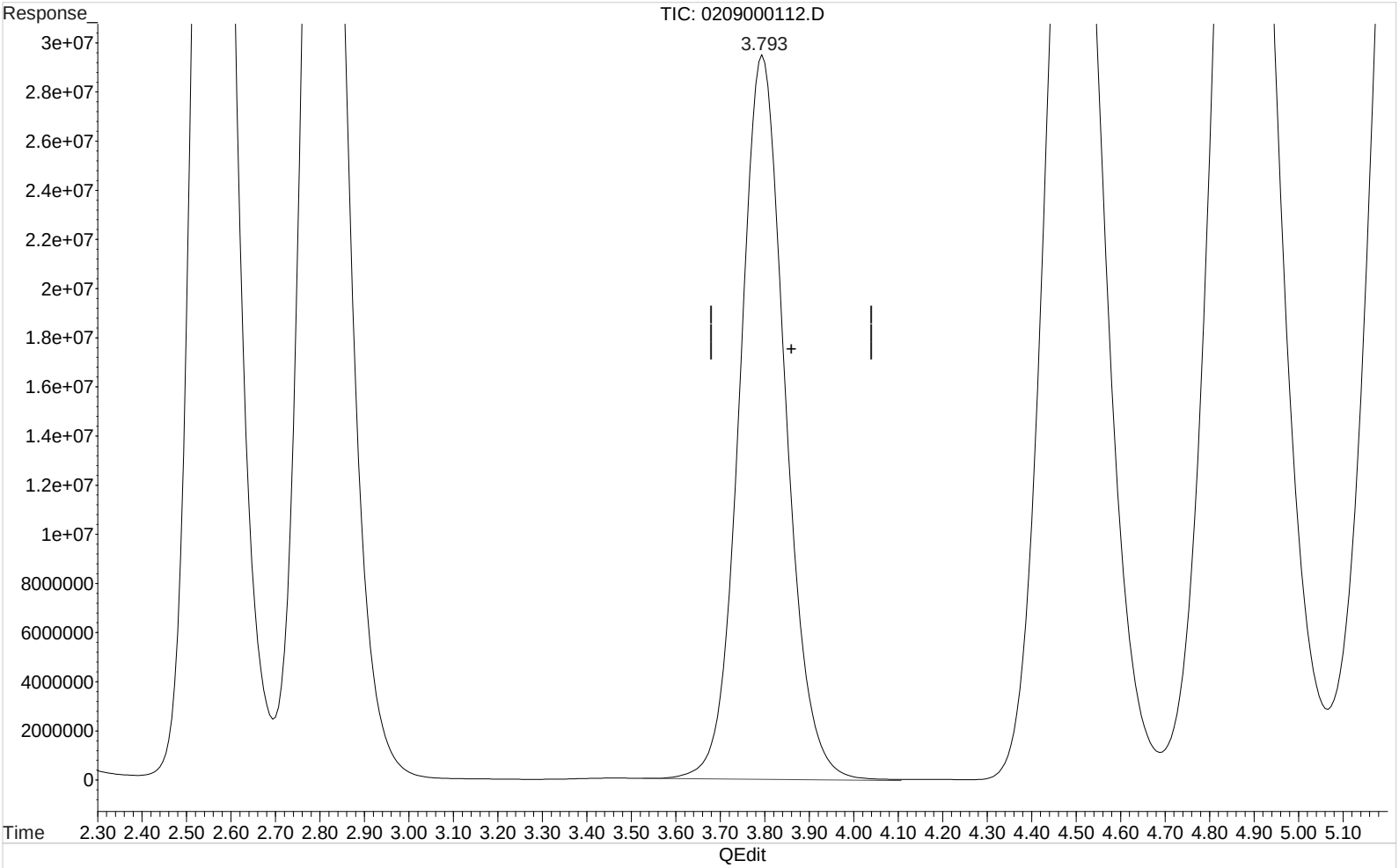
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-210\0209000112.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:24:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:24:06 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.793min 10104.020 ug/L m

response 210346801

Manual Integration:

After

BLC

02/10/17

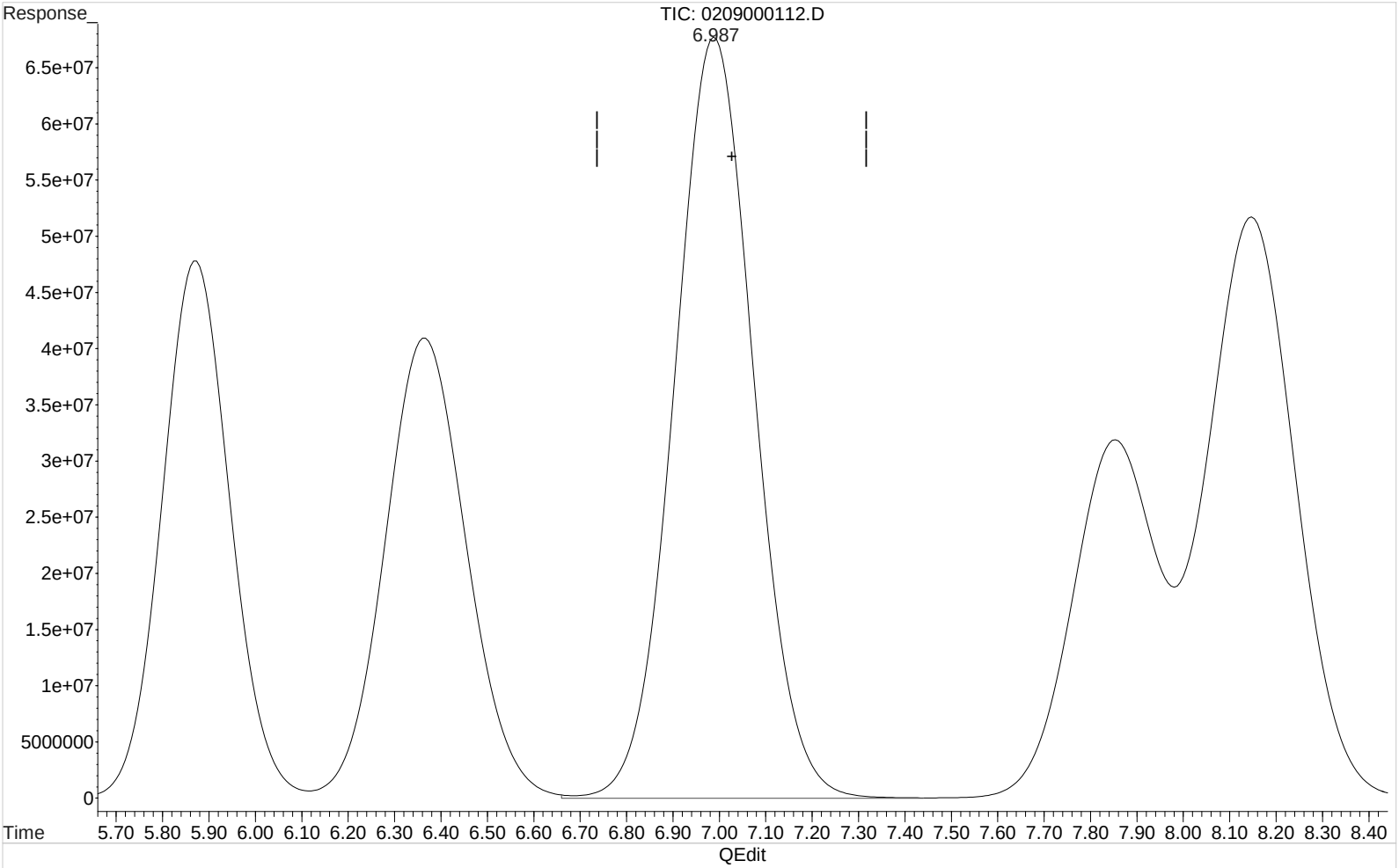
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000112.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:24:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:24:06 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.987min 10290.163 ug/L

response 812198027

Manual Integration:

Before

02/10/17

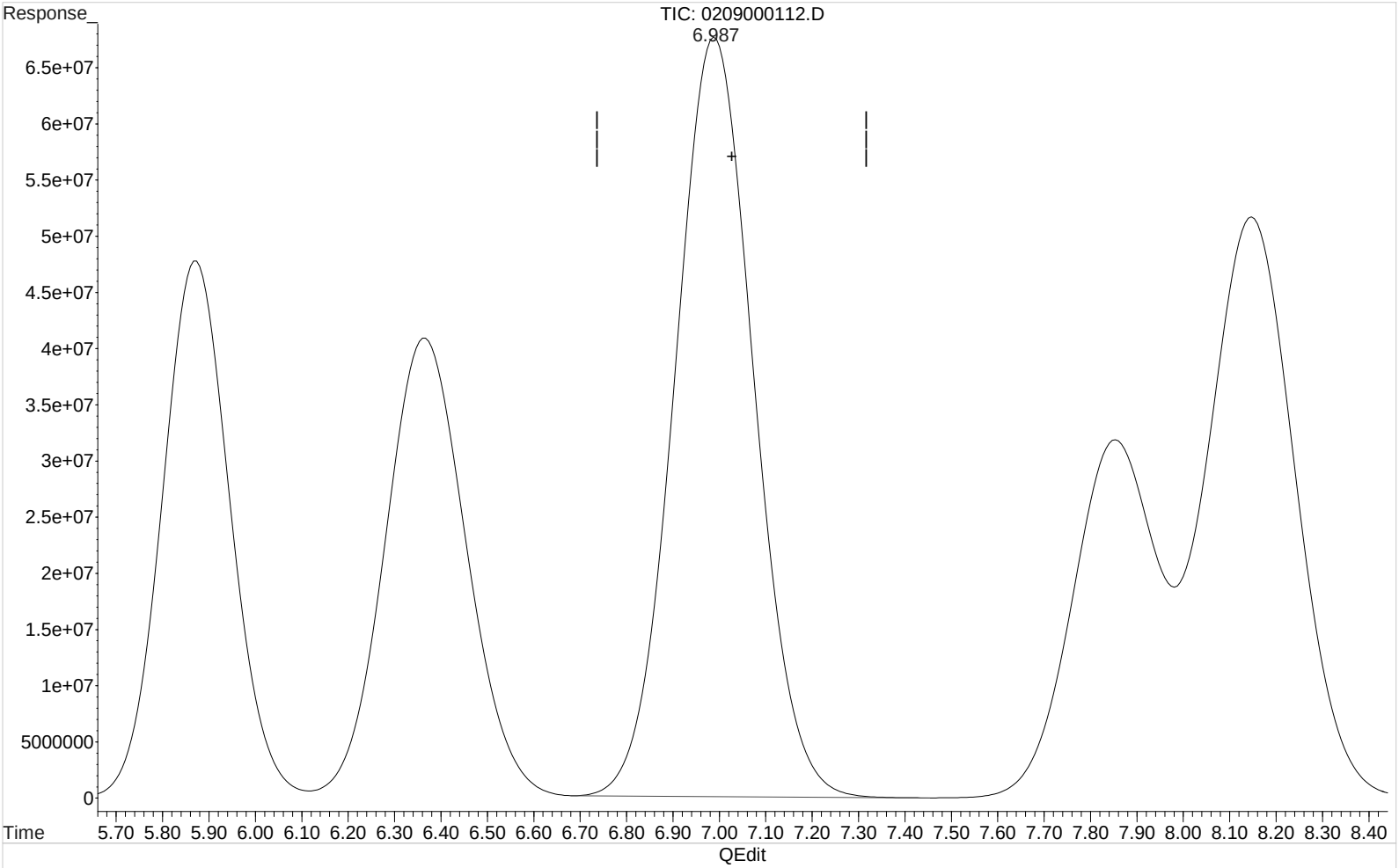
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000112.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:24:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:24:06 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.987min 10211.609 ug/L m

response 805997758

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000113.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:23:51 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:23:31 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	8.127	1388322466	NoCal	ug/L	m
Target Compounds						
1) T	Nitroglycerin	3.780	416362602	NoCal	ug/L	
2) T	PETN	6.973	1578591137	NoCal	ug/L	

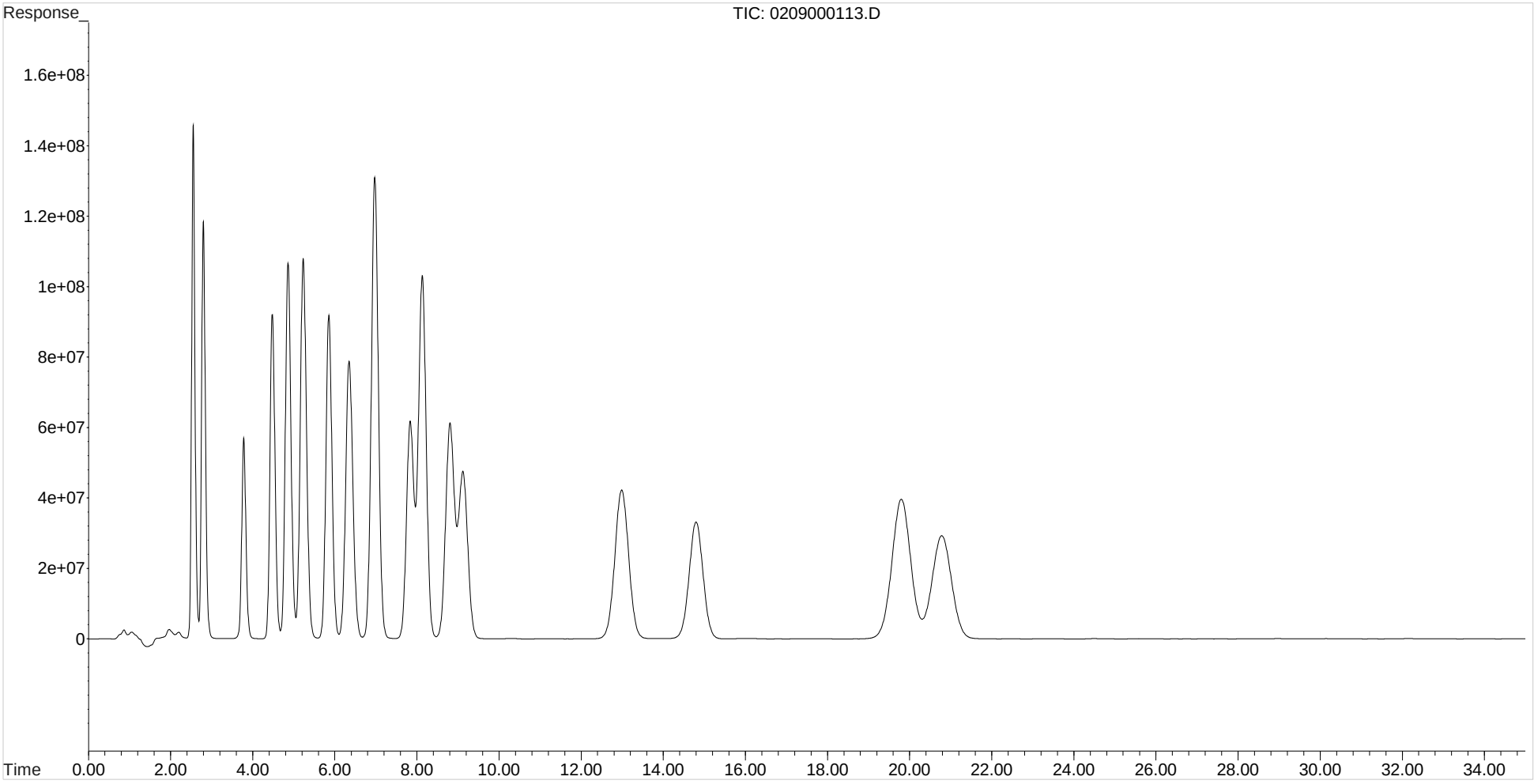
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000113.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:23:51 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:23:31 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(b) (6)

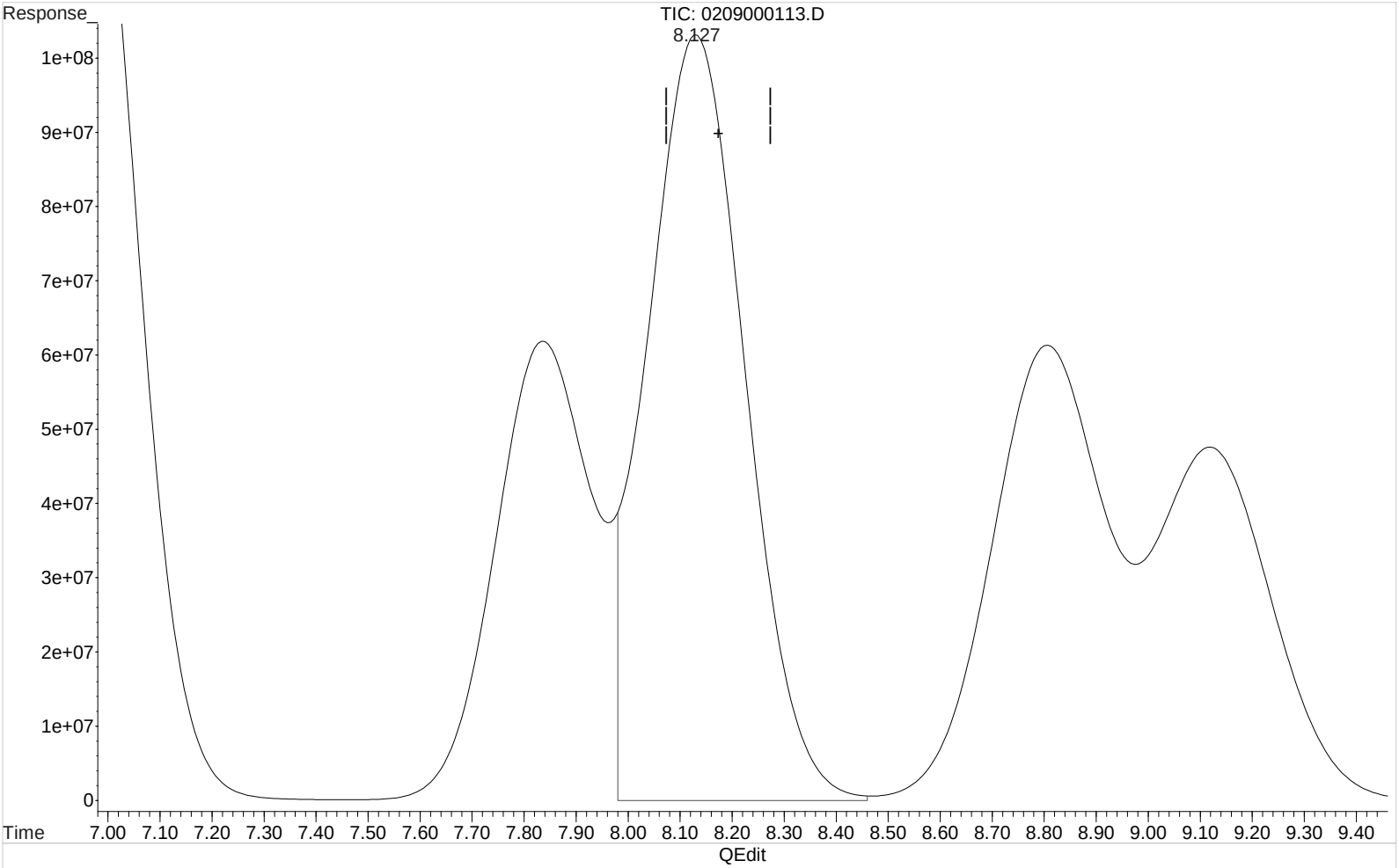
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-210\0209000113.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:23:39 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:23:31 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.127min 0.000 ug/L

response 1344410632

Manual Integration:

Before

02/10/17

(+) = Expected Retention Time

(b) (6)

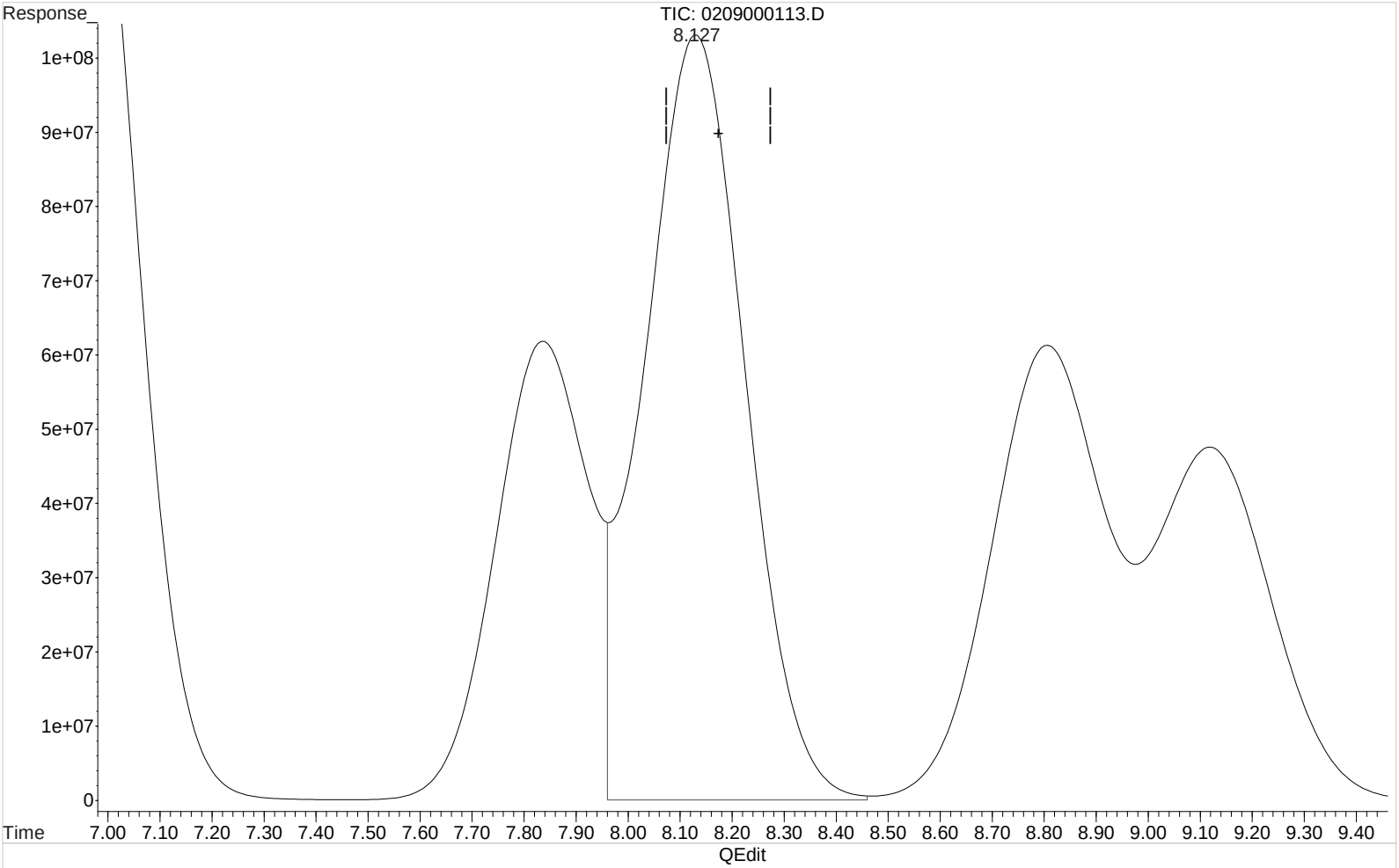
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-210\0209000113.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:23:39 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:23:31 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.127min 0.000 ug/L m

response 1388322466

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000114.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 22:09:06 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:37:33 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L d
Target Compounds					
1) T	Nitroglycerin	0.000	0	N.D.	ug/L
2) T	PETN	0.000	0	N.D.	ug/L d

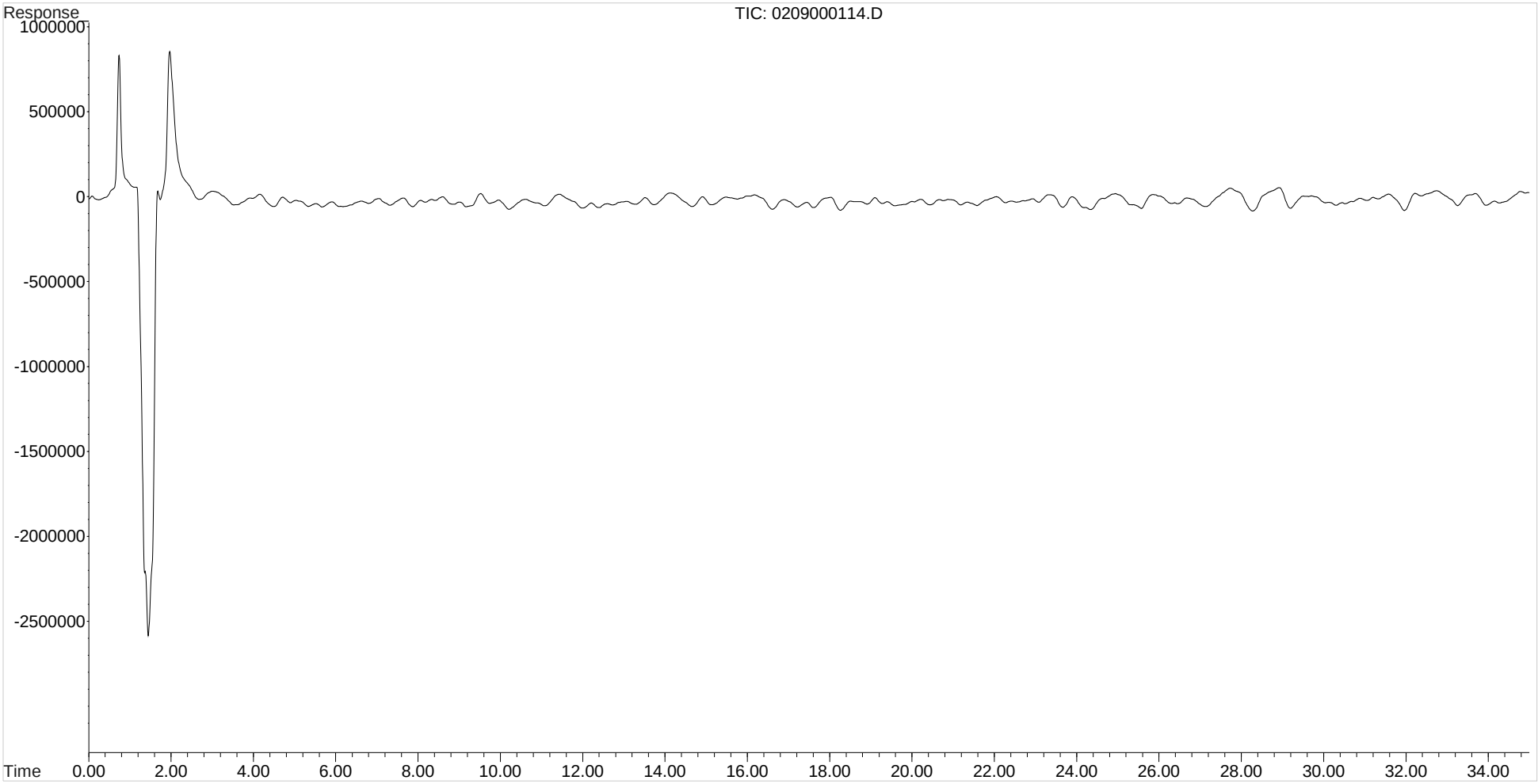
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000114.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 22:09:06 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:37:33 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000115.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:38:11 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	8.127	67923552	976.427 ug/L
Target Compounds				
1) T	Nitroglycerin	3.787	20764472	993.525 ug/L m
2) T	PETN	6.973	77460880	945.239 ug/L

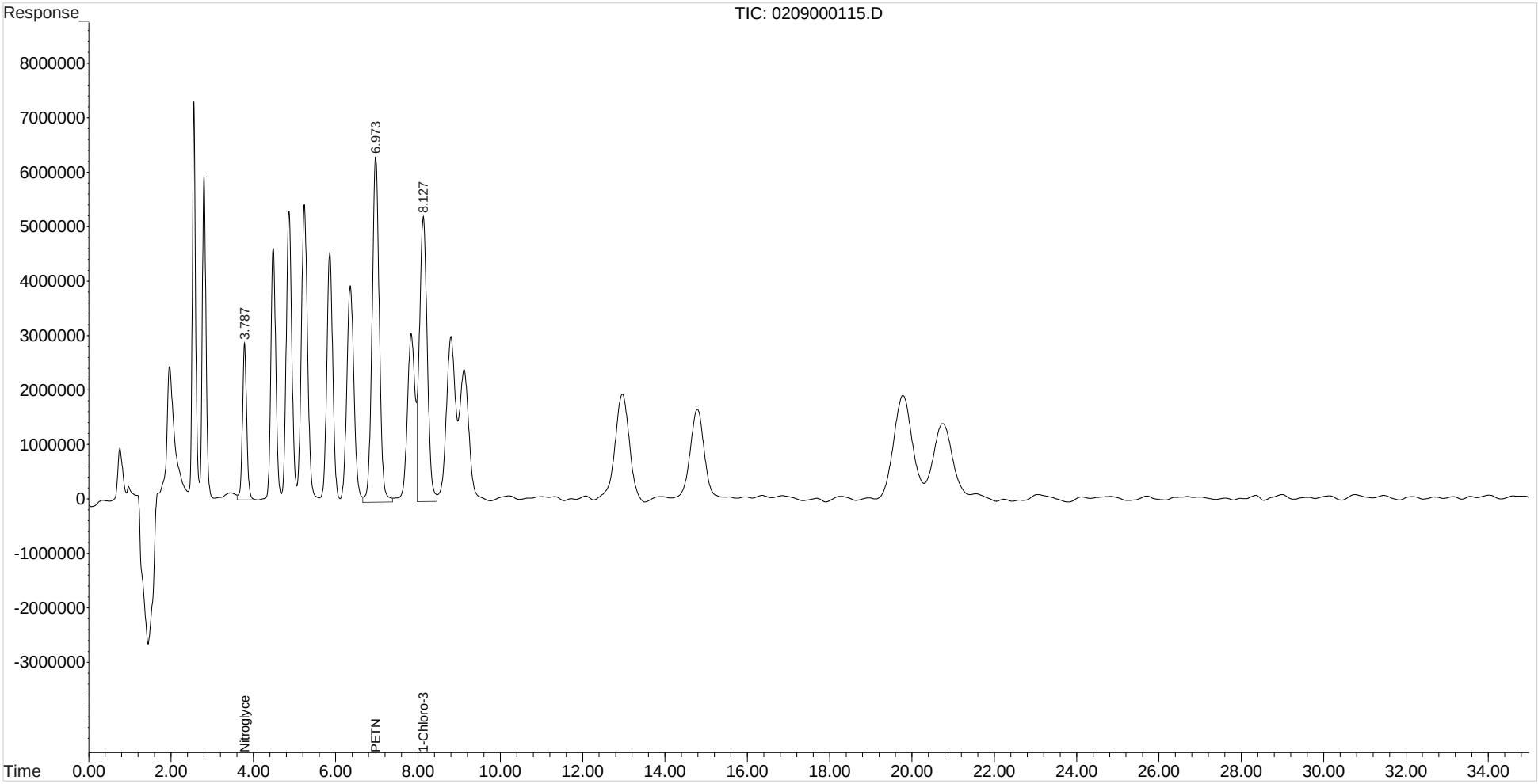
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000115.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:38:11 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

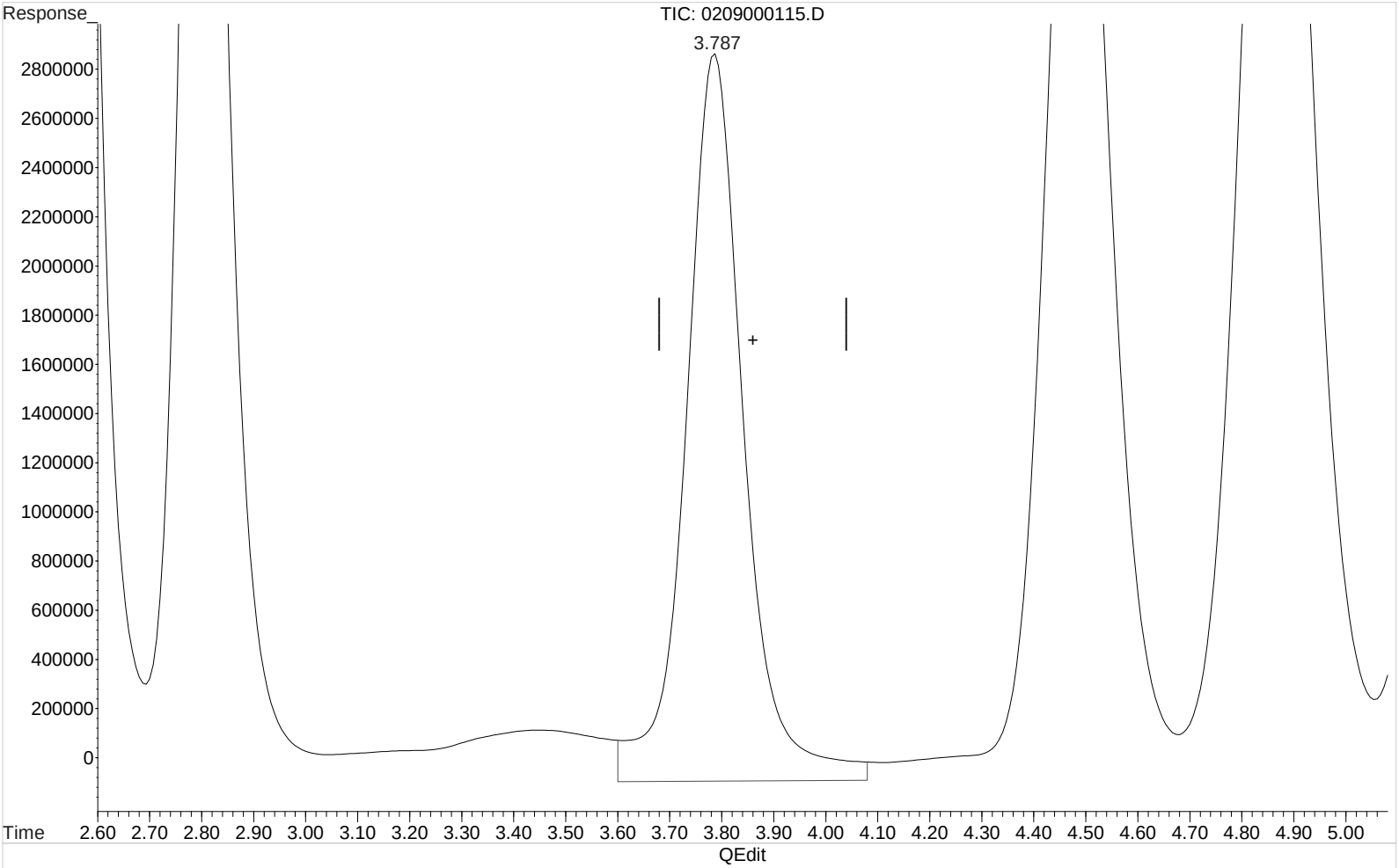


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000115.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:37:47 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.787min 1099.844 ug/L

response 22986522

Manual Integration:

Before

02/10/17

(+) = Expected Retention Time

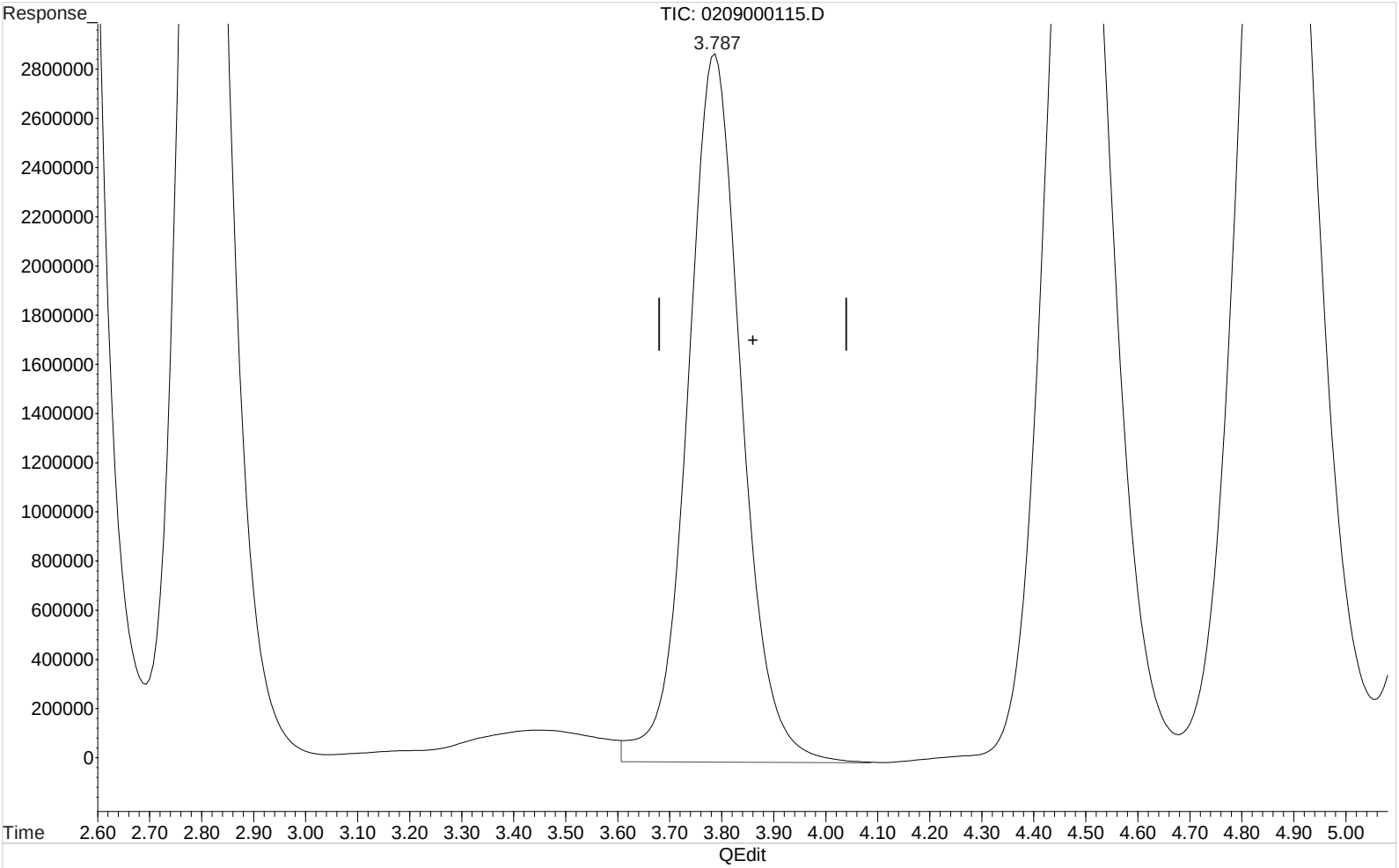
020917_Short_8330B@210.M Fri Feb 10 10:37:50 2017 Page: 1

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000115.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:37:47 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.787min 993.525 ug/L m

response 20764472

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Date: 12/7/2016 **ALS Kelso, WA** **ICAL Date:** 12/7/2016

By: AE **Injection Log** **ICAL ID:** (254)-15062 (210)-15063

Stealth ID: n/a **LC10 - Agilent 1260** **LIMS ID:** **2nd Review:** n/a (b) (6)

Column: Phen. Synergi Hydro-RP 80A 250x4.6 mm SN 759076-19

Mobile Phases A: MeOH Lot#: 56175 **B:** ACN Lot#: 56165 **C:** H_2O Lot#: 56006 **D:**

	Sample Name	File Name	Method	Dilution	R	Comments
1		12070000101	8330BX+DIAMINOS.M	NA		
2		12070000102	8330BX+DIAMINOS.M	NA		
3		1207000202	8330BX+DIAMINOS.M	NA		
4		1207000203	8330BX+DIAMINOS.M	NA		
5		1207000204	8330BX+DIAMINOS.M	NA		
6		1207000205	8330BX+DIAMINOS.M	NA		
7		1207000206	8330BX+DIAMINOS.M	NA		
8		1207000207	8330BX+DIAMINOS.M	NA		
9		1207000303	8330BX+DIAMINOS.M	NA		
10		1207000404	8330BX+DIAMINOS.M	NA		
11		1207000405	8330BX+DIAMINOS.M	NA		
12		1207000505	8330BX+DIAMINOS.M	NA		
13		1207000601	8330BX+DIAMINOS.M	NA		
14		1207000602	8330BX+DIAMINOS.M	NA		
15		1207000603	8330BX+DIAMINOS.M	NA		
16		1207000701	8330BX+DIAMINOS.M	NA		
17		1207000702	8330BX+DIAMINOS.M	NA		
18	IB	1207000703	8330BX+DIAMINOS.M	NA	X	
19	16-OLC-01-89J 20 PPB	1207000704	8330BX+DIAMINOS.M	NA	X	
20	16-OLC-01-89I 50 PPB	1207000705	8330BX+DIAMINOS.M	NA	X	
21	16-OLC-01-89H 100 PPB	1207000706	8330BX+DIAMINOS.M	NA	X	
22	16-OLC-01-89G 200 PPB	1207000707	8330BX+DIAMINOS.M	NA	X	
23	16-OLC-01-89F 500 PPB	1207000708	8330BX+DIAMINOS.M	NA	X	
24	16-OLC-01-89E 1000 PPB	1207000709	8330BX+DIAMINOS.M	NA	X	
25	16-OLC-01-89D 2000 PPB	1207000710	8330BX+DIAMINOS.M	NA	X	
26	16-OLC-01-89C 5000 PPB	1207000711	8330BX+DIAMINOS.M	NA	X	
27	16-OLC-01-89B 10000 PPB	1207000712	8330BX+DIAMINOS.M	NA	X	
28	16-OLC-01-89A 20000 PPB	1207000713	8330BX+DIAMINOS.M	NA	X	
29	IB	1207000714	8330BX+DIAMINOS.M	NA	X	
30	16-OLC-01-89K 10000 PPB ICV	1207000715	8330BX+DIAMINOS.M	NA	X	

(Cal not valid for Diaminos)

R:\OLC\Injection Logs\LC10 2016\INJLOG_LC10_xl_120716_ICAL

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000703.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 19:36:44 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:24:49 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:23:13 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
18) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
	Target Compounds				
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2) T	HMX	0.000	0	N.D.	ug/L
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4) T	RDX	0.000	0	N.D.	ug/L
5) T	1,3,5-TNB	0.000	0	N.D.	ug/L
6) T	1,3-DNB	0.000	0	N.D.	ug/L
7) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8) T	Tetryl	0.000	0	N.D.	ug/L
9) T	Nitrobenzene	0.000	0	N.D.	ug/L
10) T	2,4,6-TNT	0.000	0	N.D.	ug/L
11) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13) T	2,6-DNT	0.000	0	N.D.	ug/L
14) T	2,4-DNT	0.000	0	N.D.	ug/L
15) T	2-NT	0.000	0	N.D.	ug/L
16) T	4-NT	0.000	0	N.D.	ug/L
17) T	3-NT	0.000	0	N.D.	ug/L

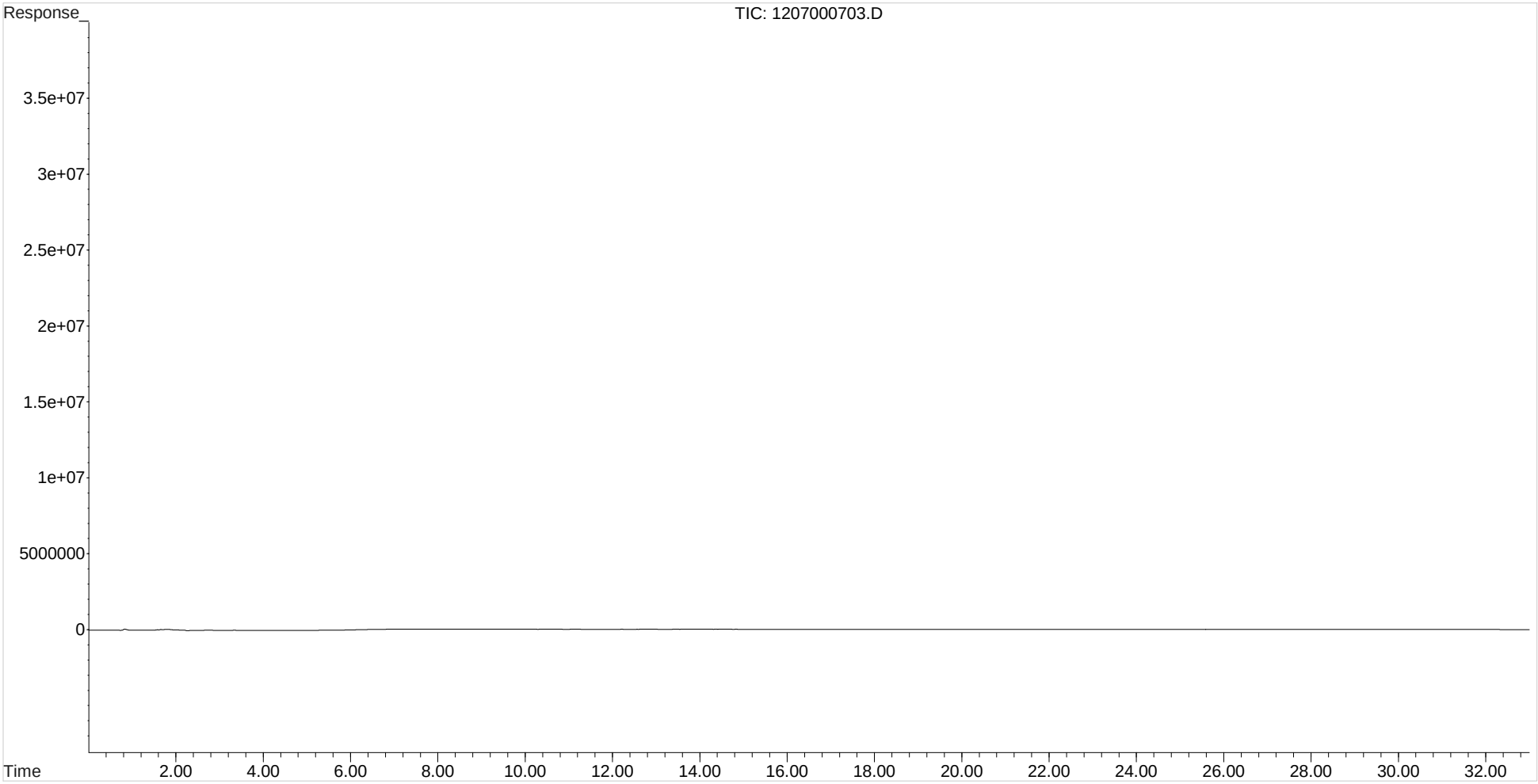
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000703.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 19:36:44 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:24:49 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:23:13 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 13:46:47 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
18) S	1-Chloro-3-Nitrobenzene	29.718	461332	NoCal	ug/L	m
	Target Compounds					
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2) T	HMX	4.618	232698	NoCal	ug/L	m
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4) T	RDX	8.378	420328	NoCal	ug/L	m
5) T	1,3,5-TNB	10.518	908690	NoCal	ug/L	m
6) T	1,3-DNB	13.865	1258488	NoCal	ug/L	
7) T	3,5-Dinitroaniline	14.978	975768	NoCal	ug/L	m
8) T	Tetryl	15.592	673809	NoCal	ug/L	m
9) T	Nitrobenzene	16.198	787874	NoCal	ug/L	m
10) T	2,4,6-TNT	17.445	797481	NoCal	ug/L	m
11) T	4-Amino-2,6-DNT	19.212	537582	NoCal	ug/L	m
12) T	2-Amino-4,6-DNT	20.038	846074	NoCal	ug/L	m
13) T	2,6-DNT	21.765	470868	NoCal	ug/L	m
14) T	2,4-DNT	22.218	1151614	NoCal	ug/L	m
15) T	2-NT	25.332	349859	NoCal	ug/L	m
16) T	4-NT	26.252	319957	NoCal	ug/L	m
17) T	3-NT	27.378	411159	NoCal	ug/L	m

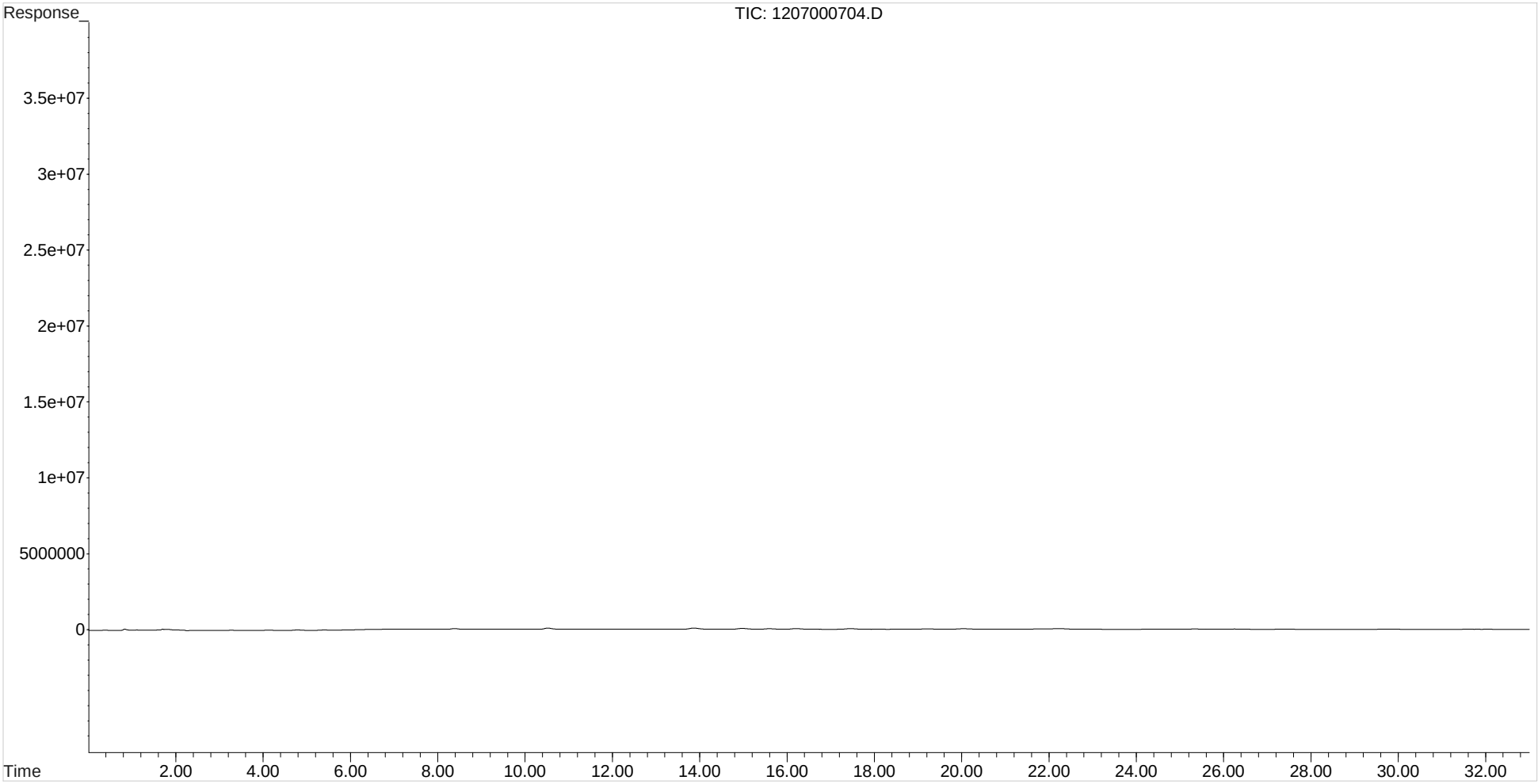
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 13:46:47 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

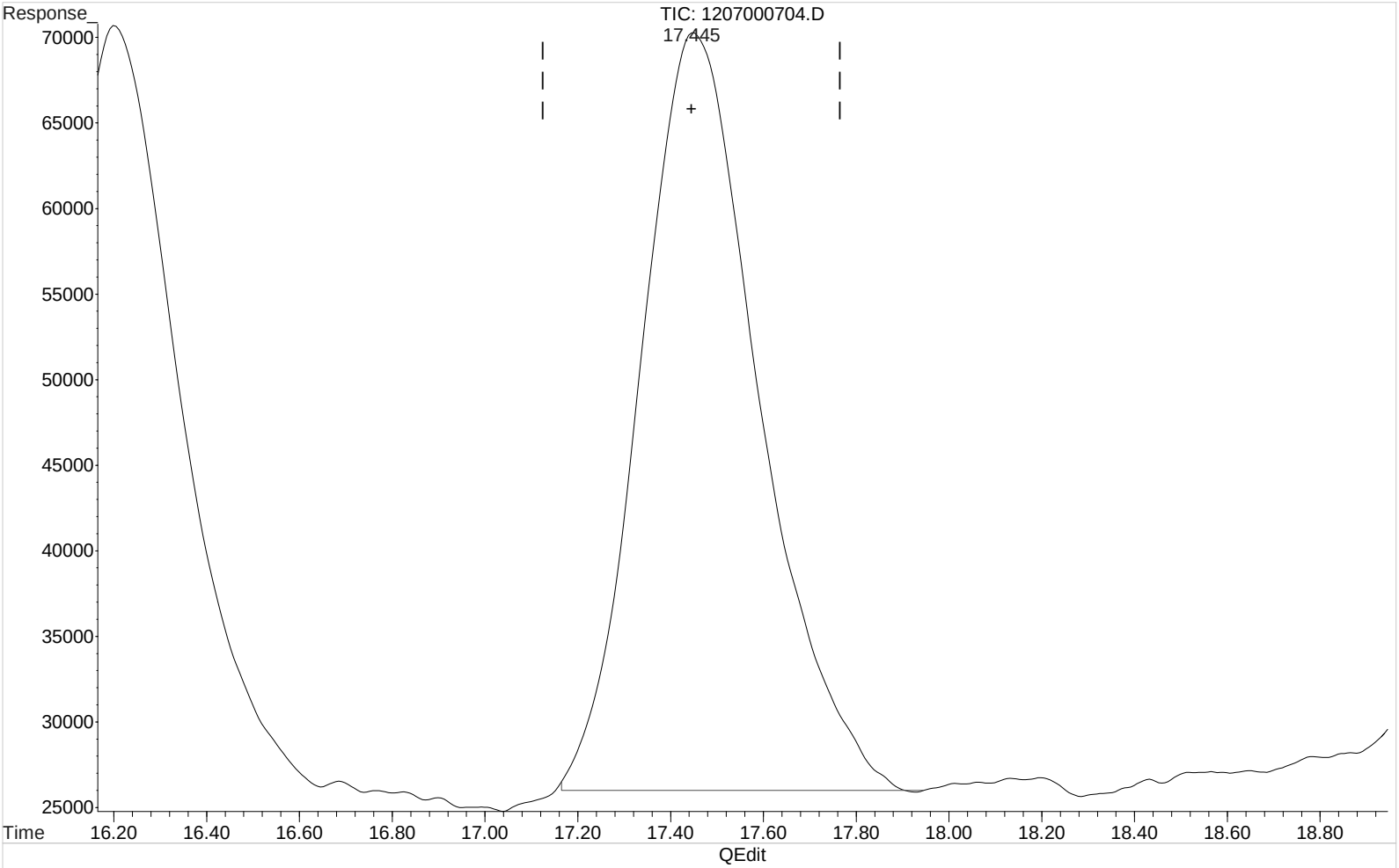


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(10) 2,4,6-TNT (T)

17.445min 0.000 ug/L

response 786868

Manual Integration:

Before

12/08/16

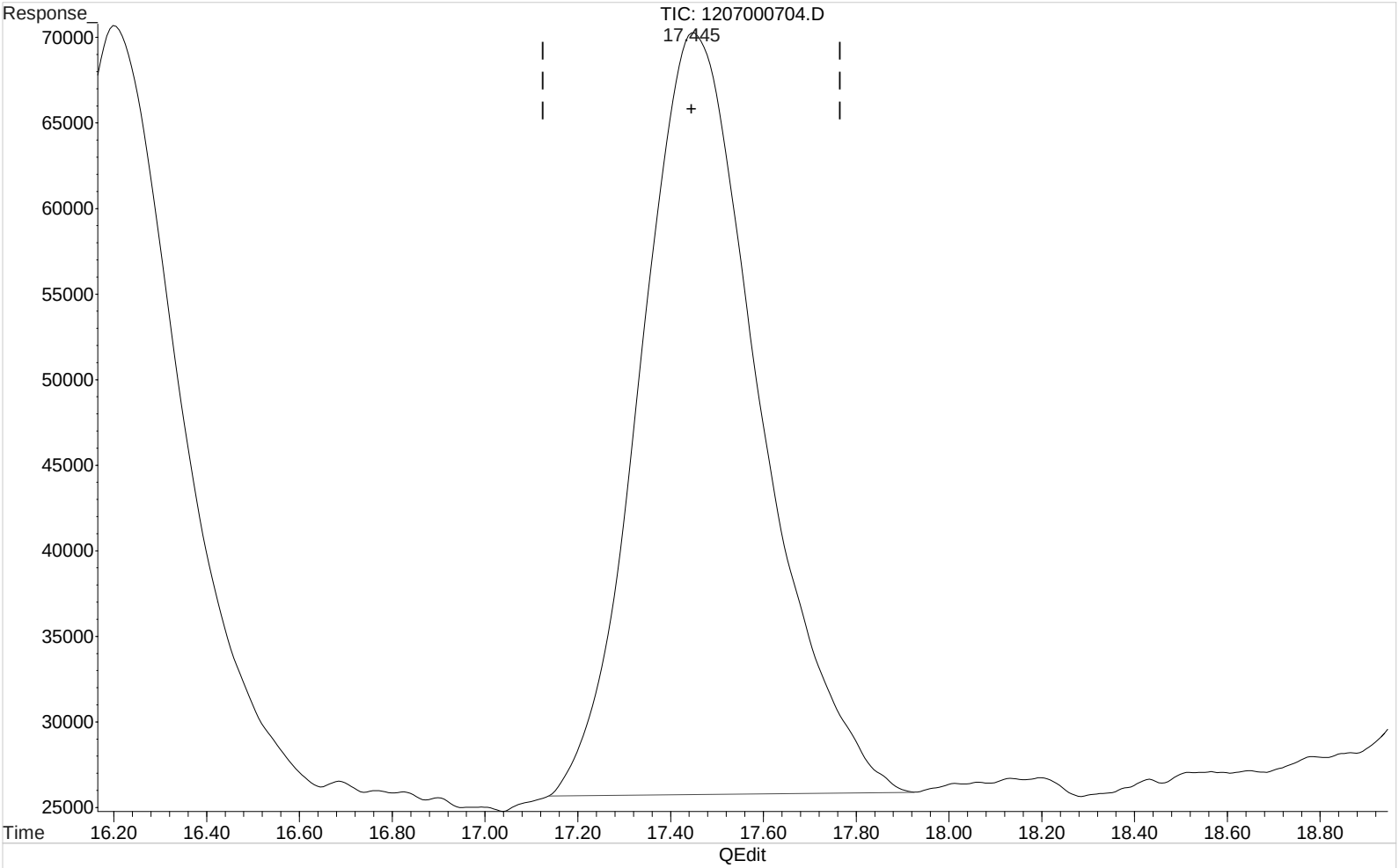
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(10) 2,4,6-TNT (T)

17.445min 0.000 ug/L m

response 797481

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)

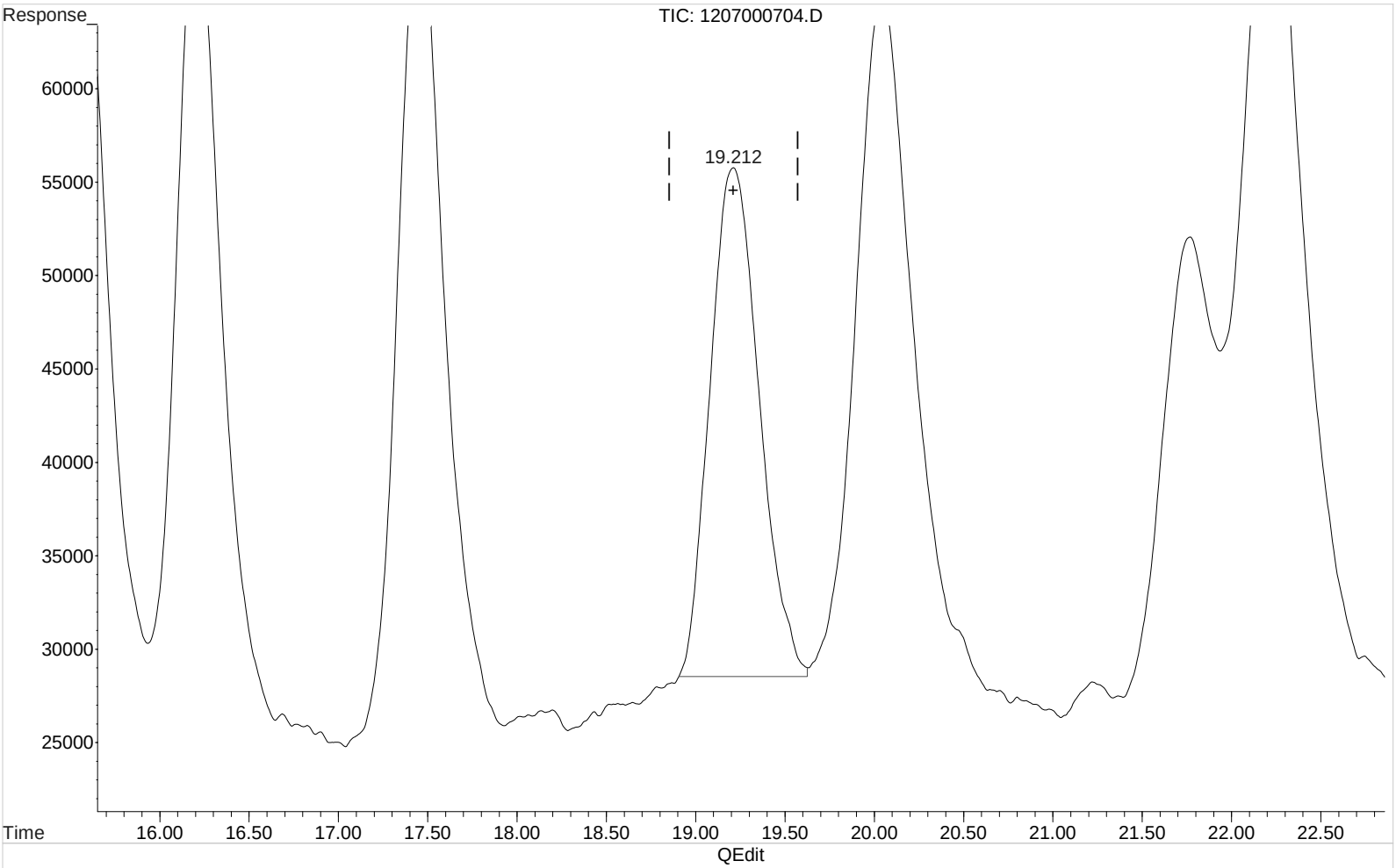
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(11) 4-Amino-2,6-DNT (T)

19.212min 0.000 ug/L

response 521042

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

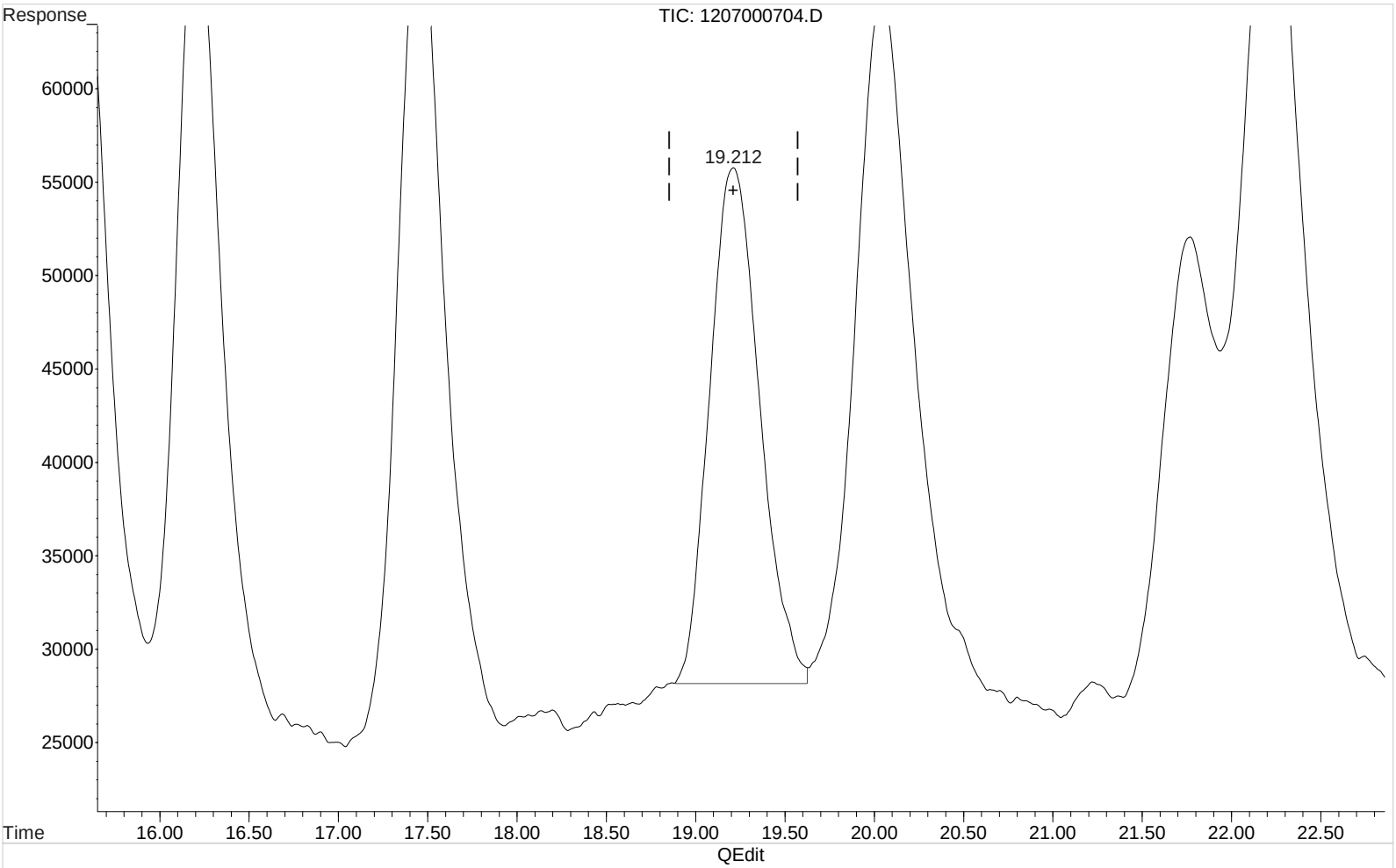
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(11) 4-Amino-2,6-DNT (T)

19.212min 0.000 ug/L m

response 537582

Manual Integration:

After

BLC

12/08/16

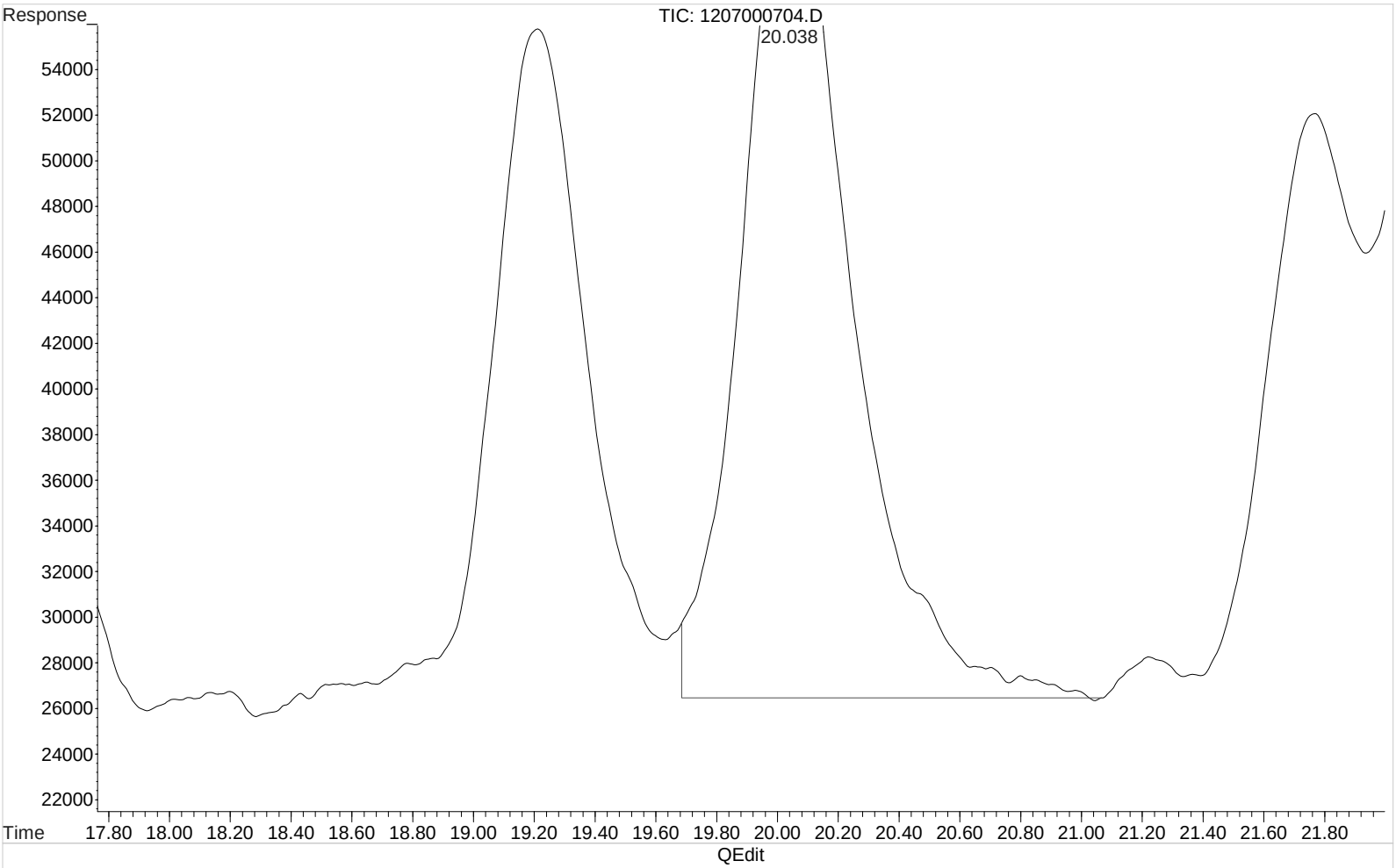
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(12) 2-Amino-4,6-DNT (T)

20.038min 0.000 ug/L

response 932740

Manual Integration:

Before

12/08/16

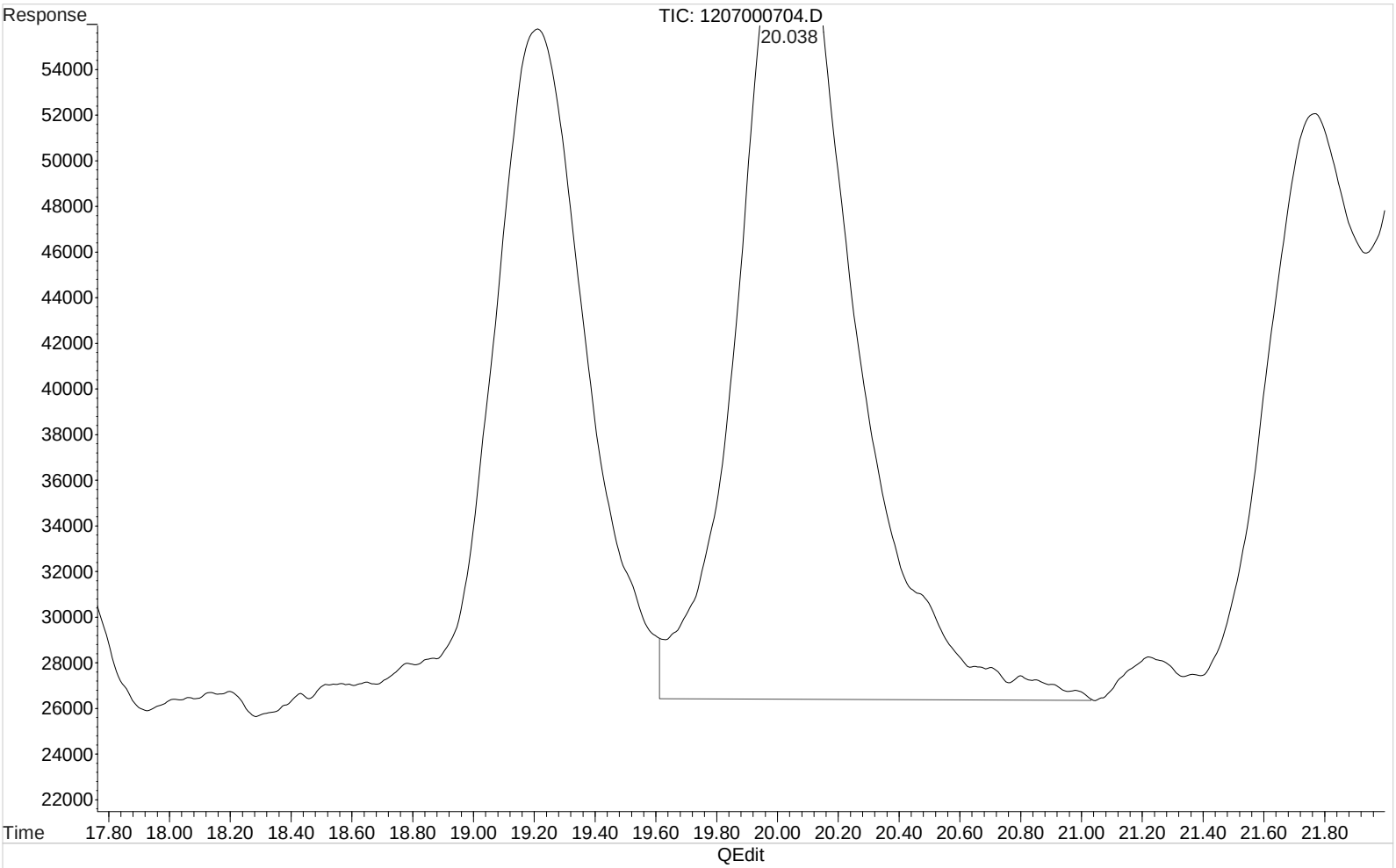
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(12) 2-Amino-4,6-DNT (T)

20.038min 0.000 ug/L m

response 951343

Manual Integration:

After

BLC

12/08/16

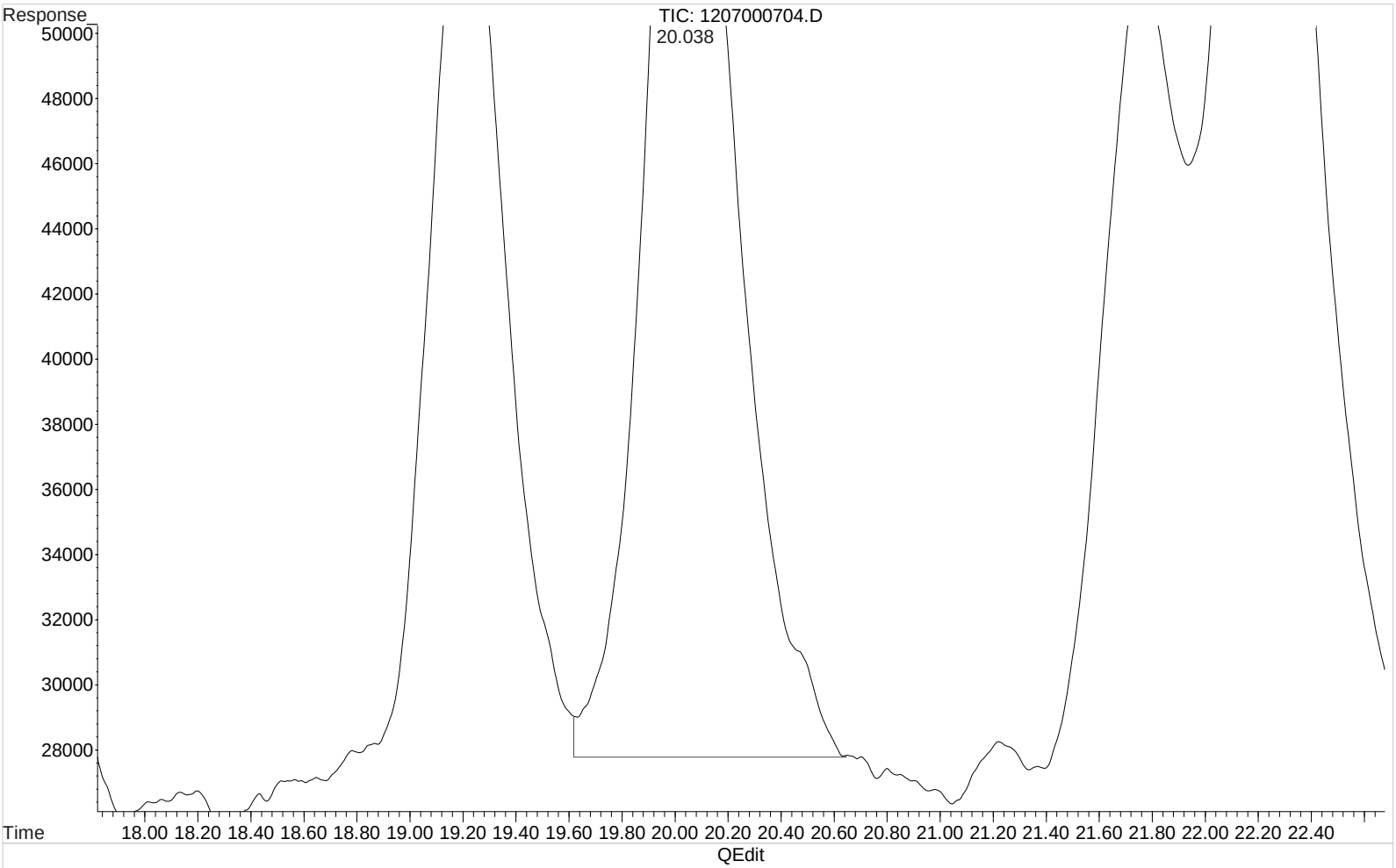
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:32:07 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(12) 2-Amino-4,6-DNT (T)

20.038min 0.000 ug/L m

response 846074

Manual Integration:

After

Baseline/Shoulder

12/08/16

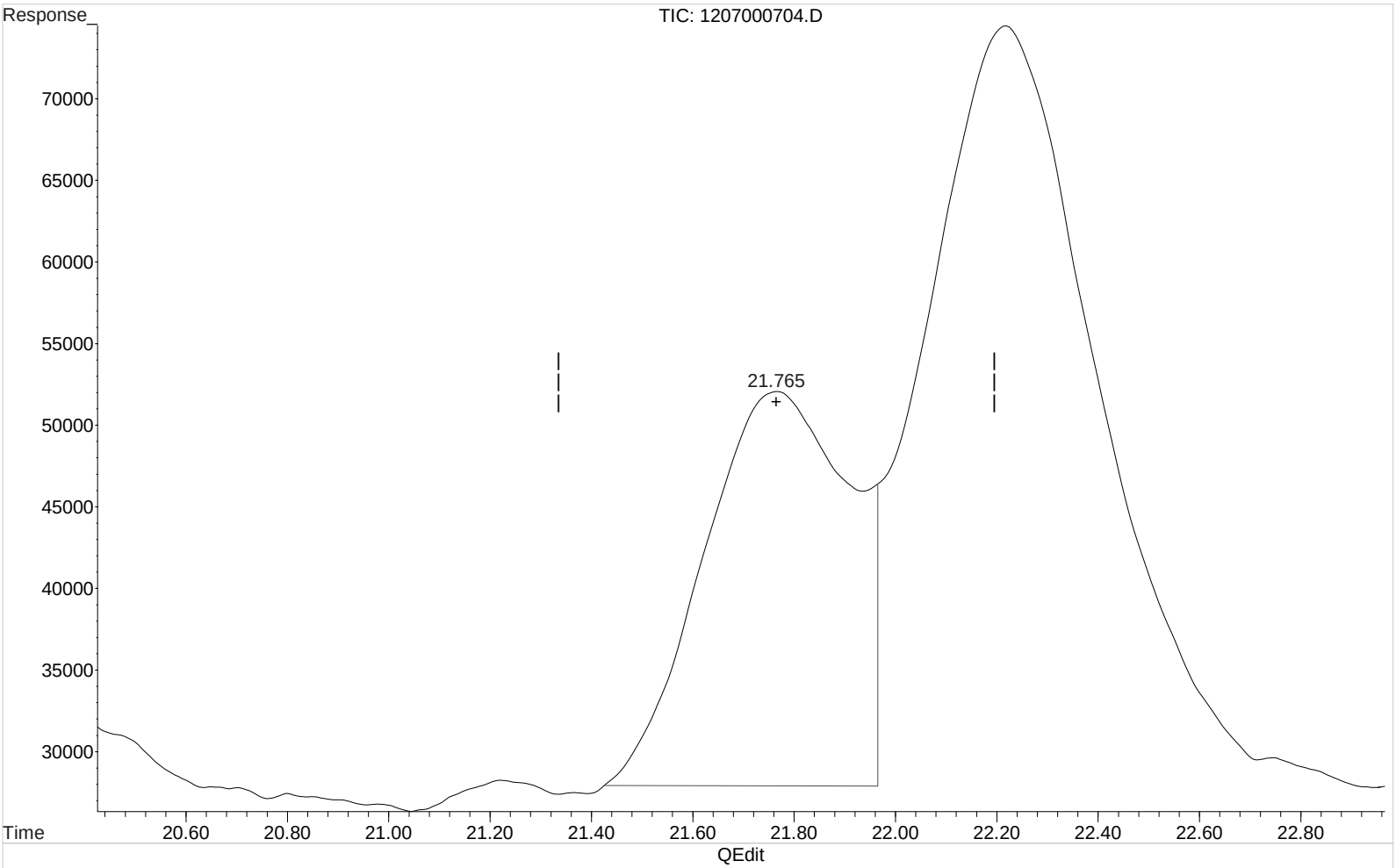
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.765min 0.000 ug/L

response 490736

Manual Integration:

Before

12/08/16

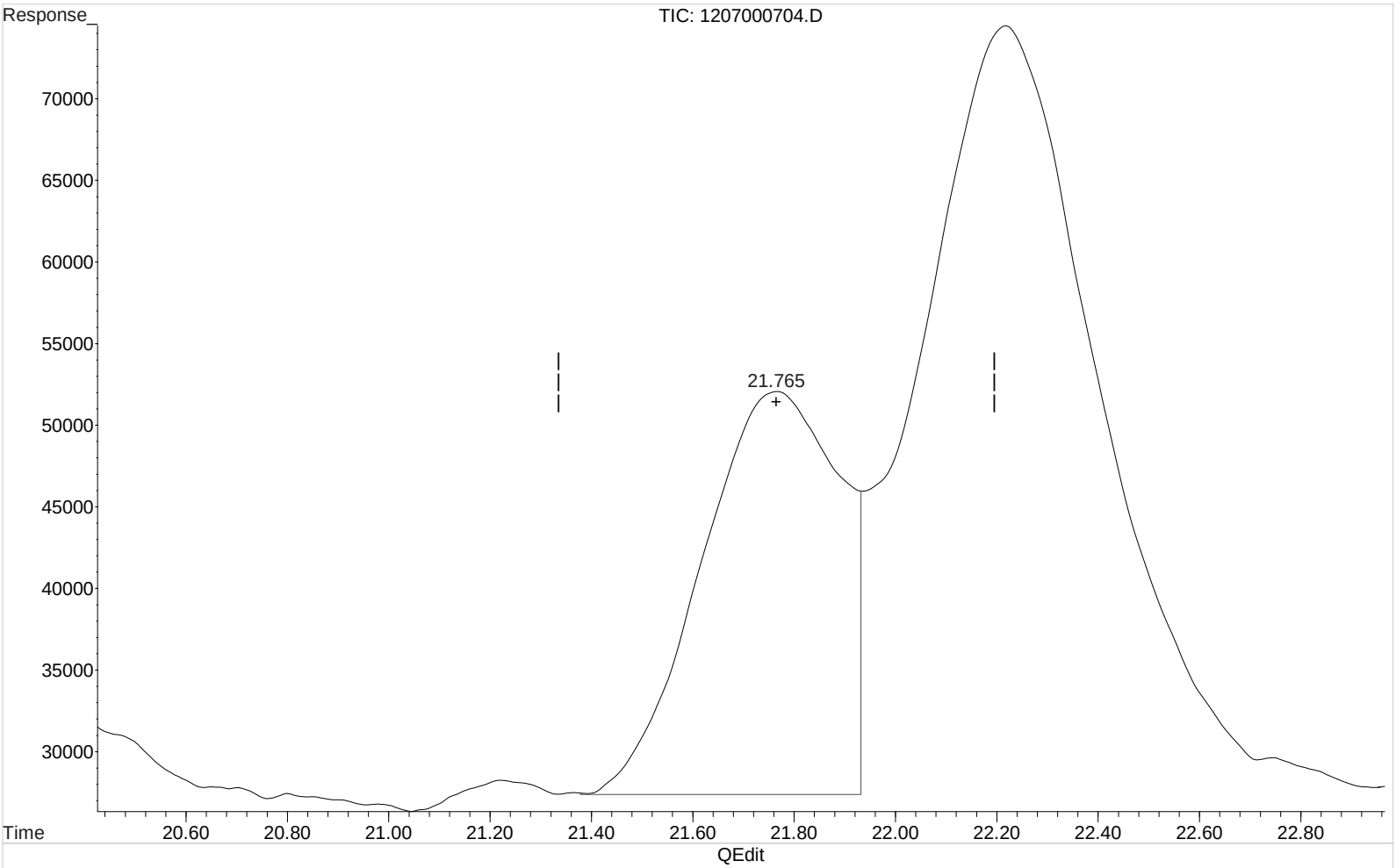
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)
21.765min 0.000 ug/L m
response 470868

Manual Integration:
After
BLC
12/08/16

(+) = Expected Retention Time

(b) (6)

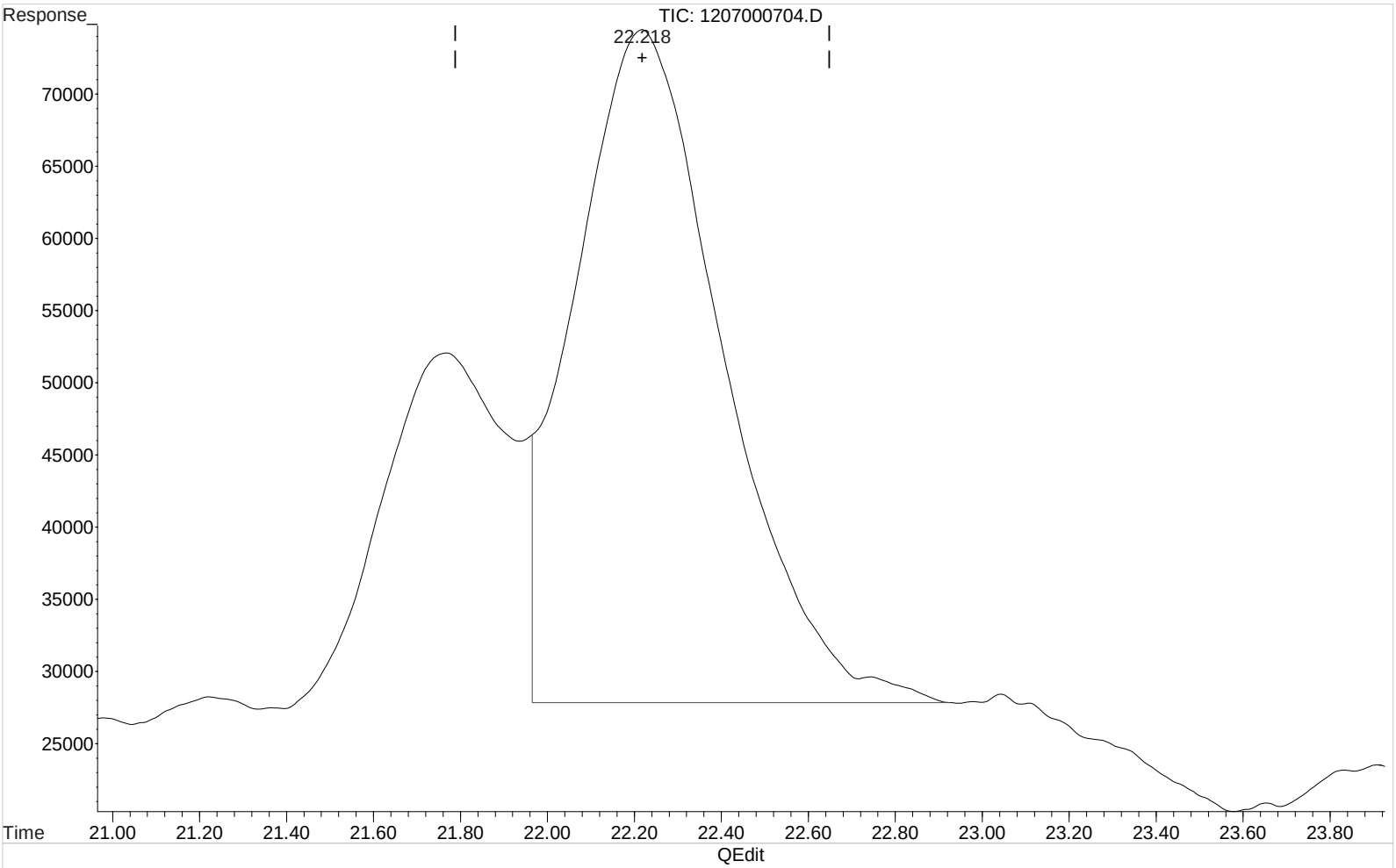
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.218min 0.000 ug/L

response 1110180

Manual Integration:

Before

12/08/16

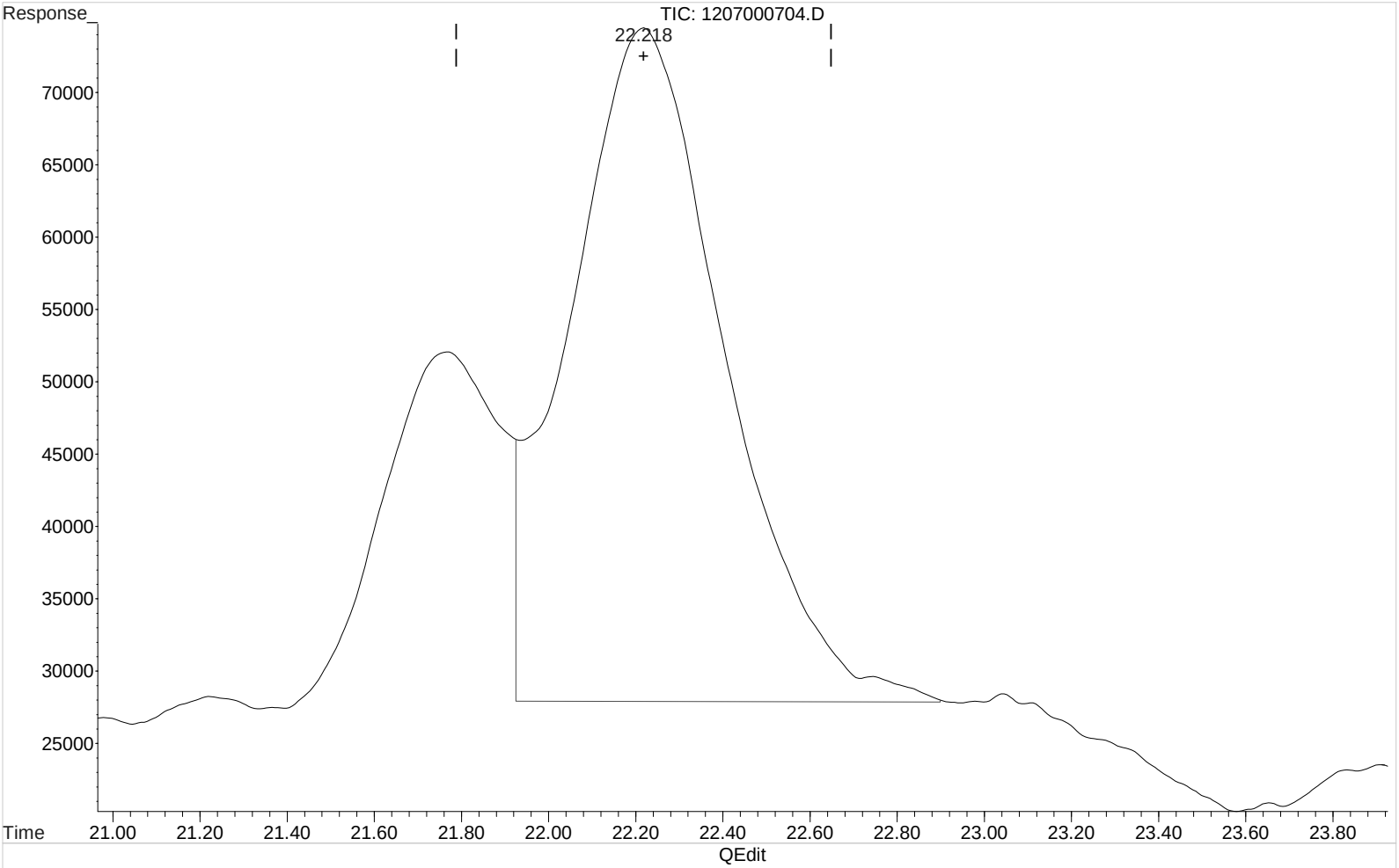
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(14) 2,4-DNT (T)

22.218min 0.000 ug/L m

response 1151614

Manual Integration:

After

BLC

12/08/16

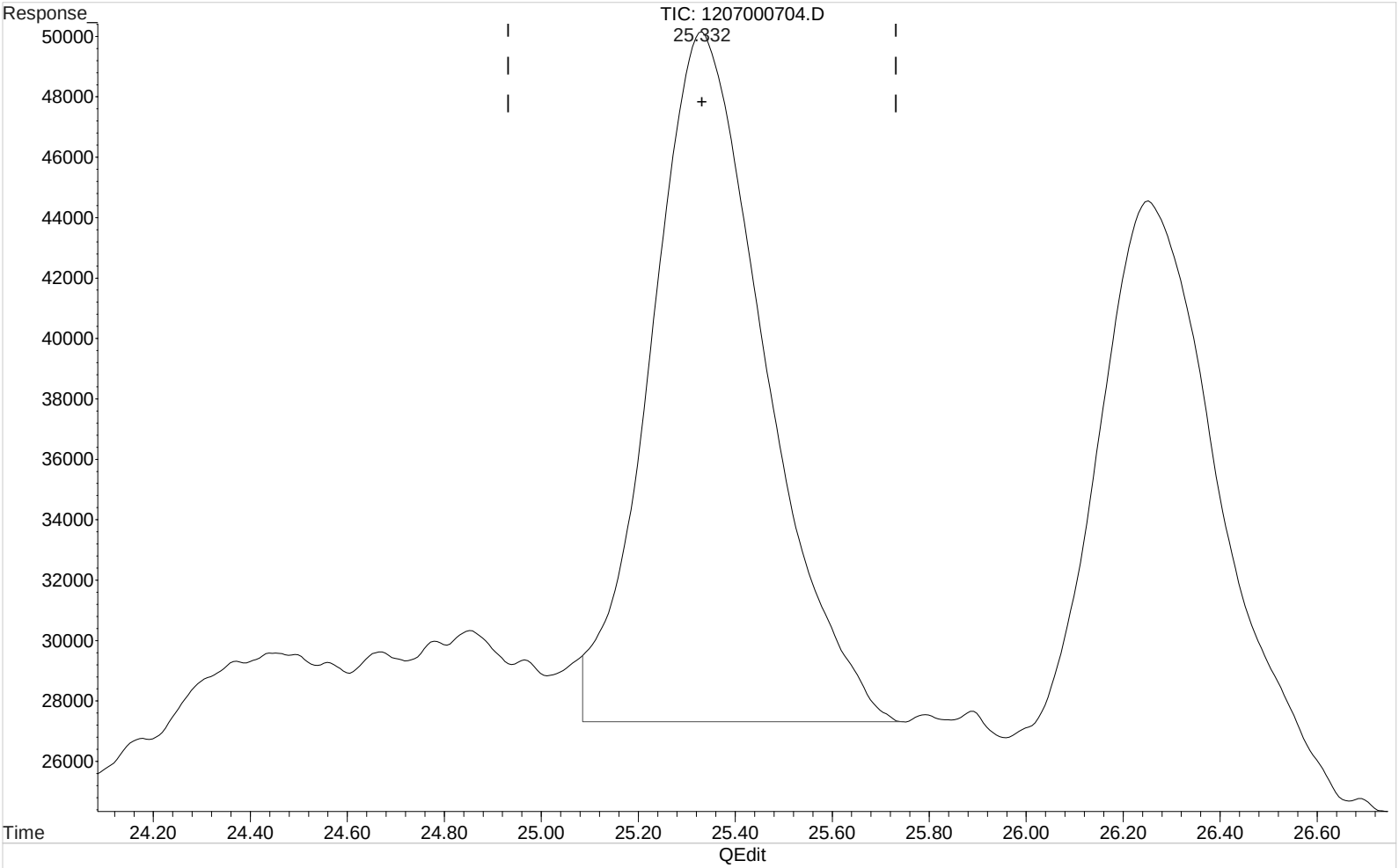
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.332min 0.000 ug/L

response 373720

Manual Integration:

Before

12/08/16

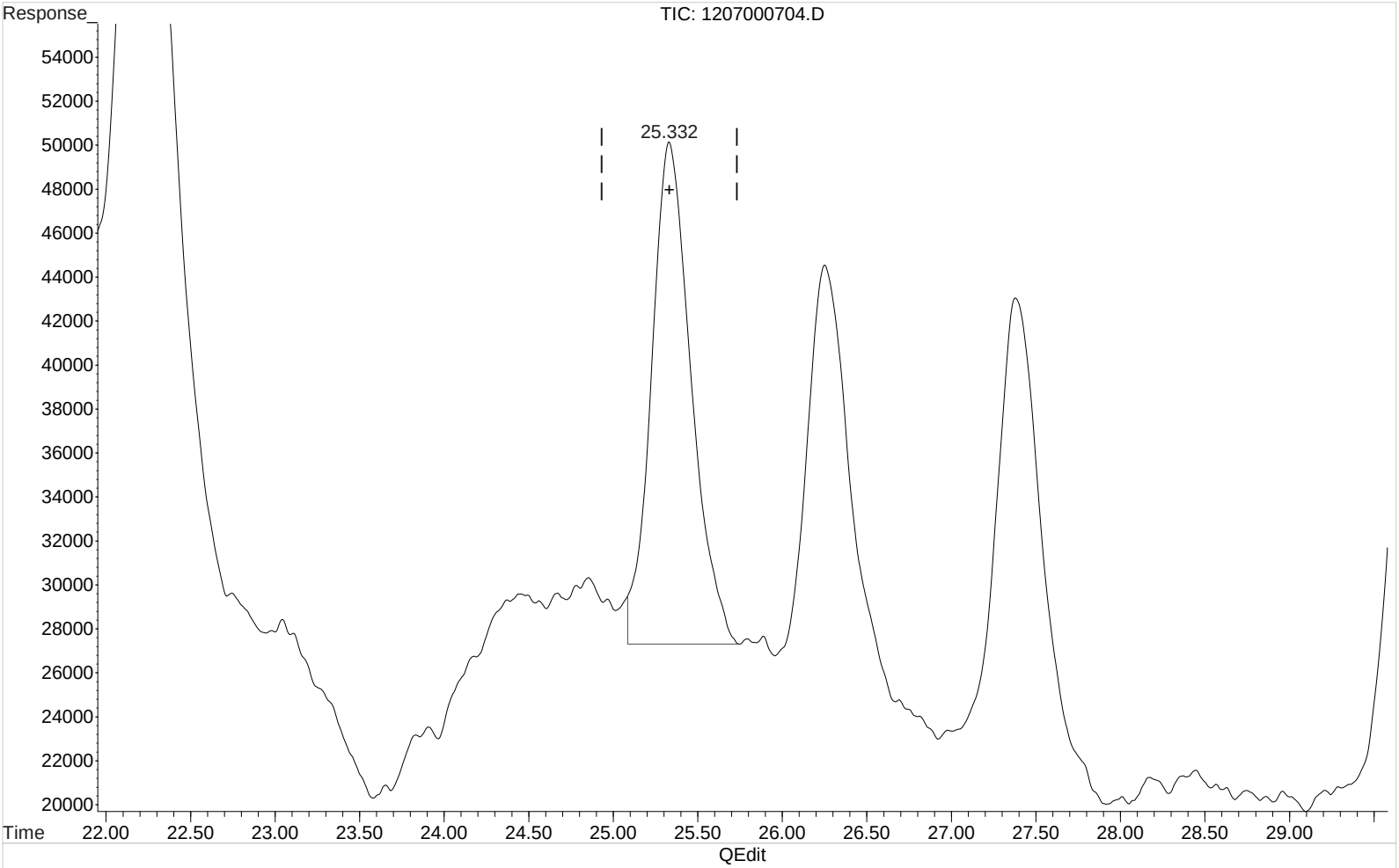
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.332min 0.000 ug/L

response 373720

Manual Integration:

Before

12/08/16

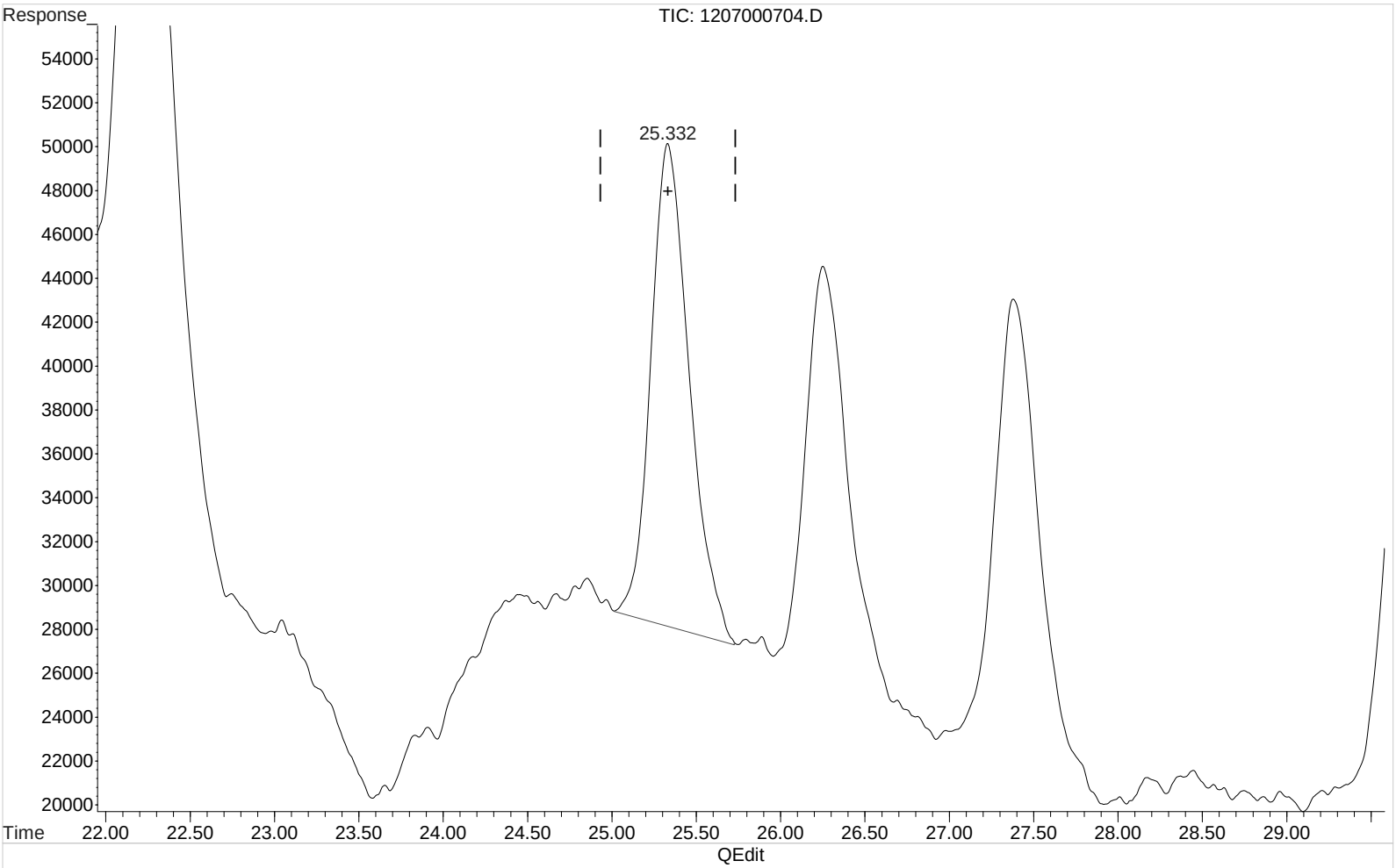
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.332min 0.000 ug/L m

response 349859

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)

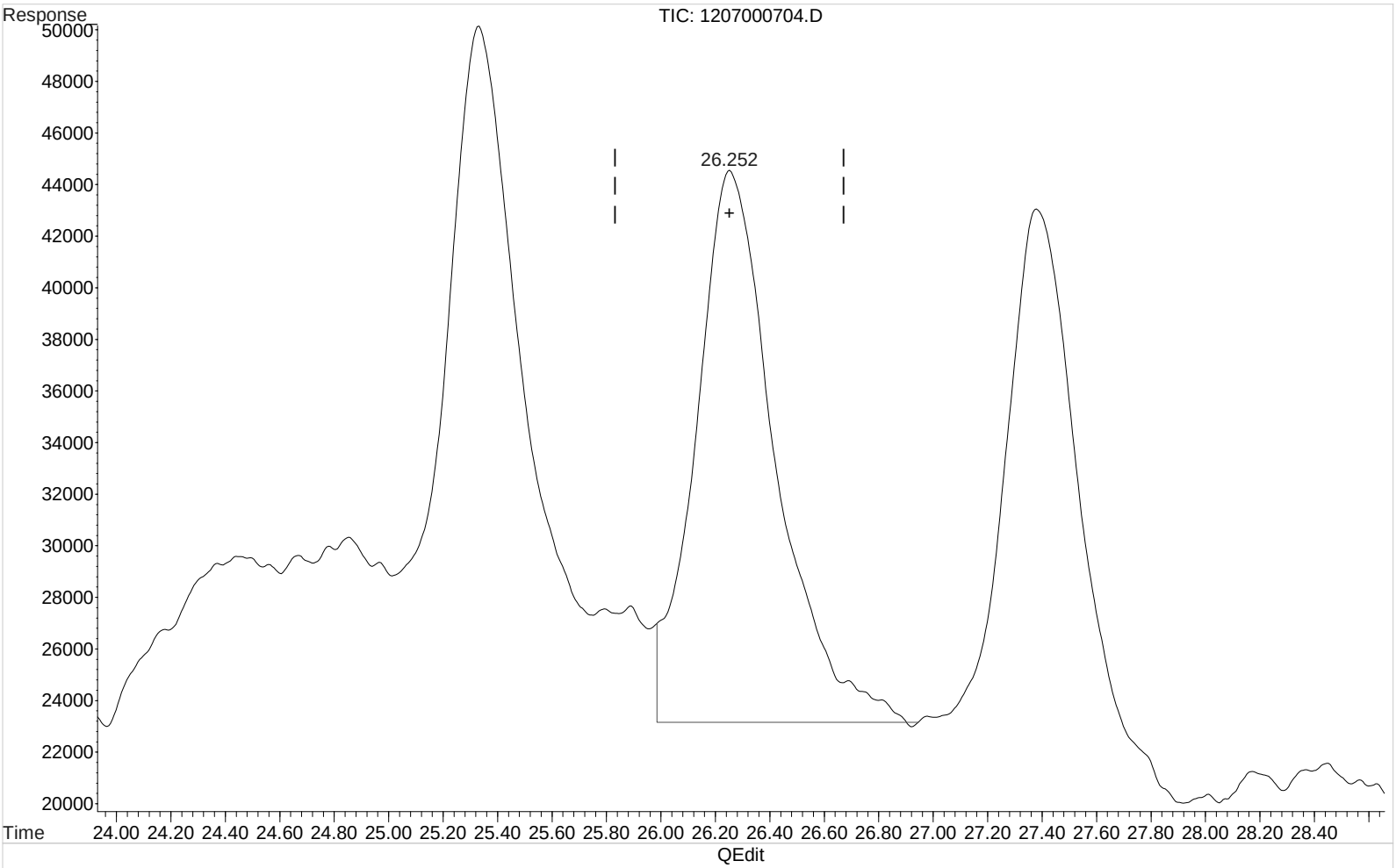
2/08/16

2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.252min 0.000 ug/L

response 435478

Manual Integration:

Before

12/08/16

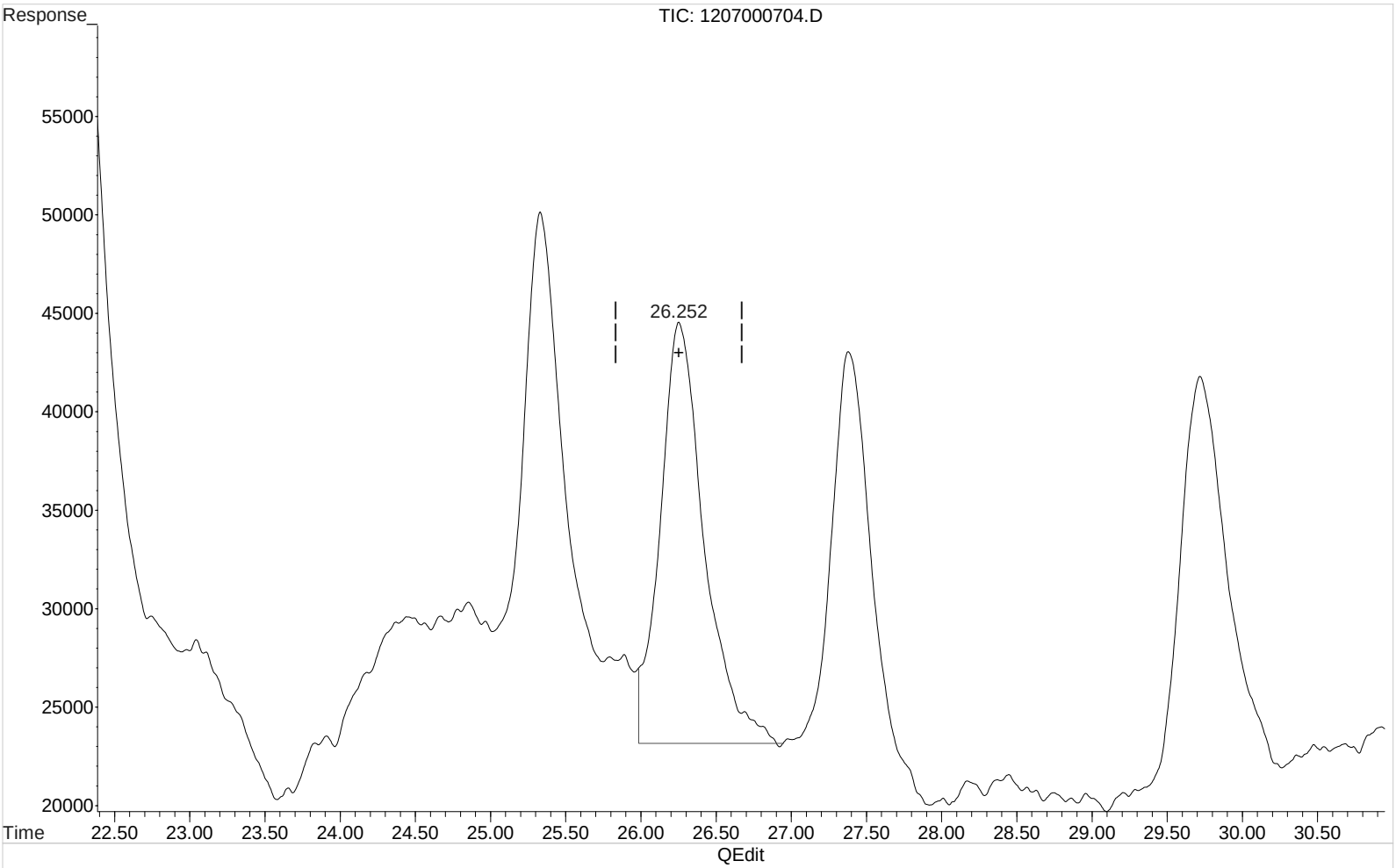
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.252min 0.000 ug/L

response 435478

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

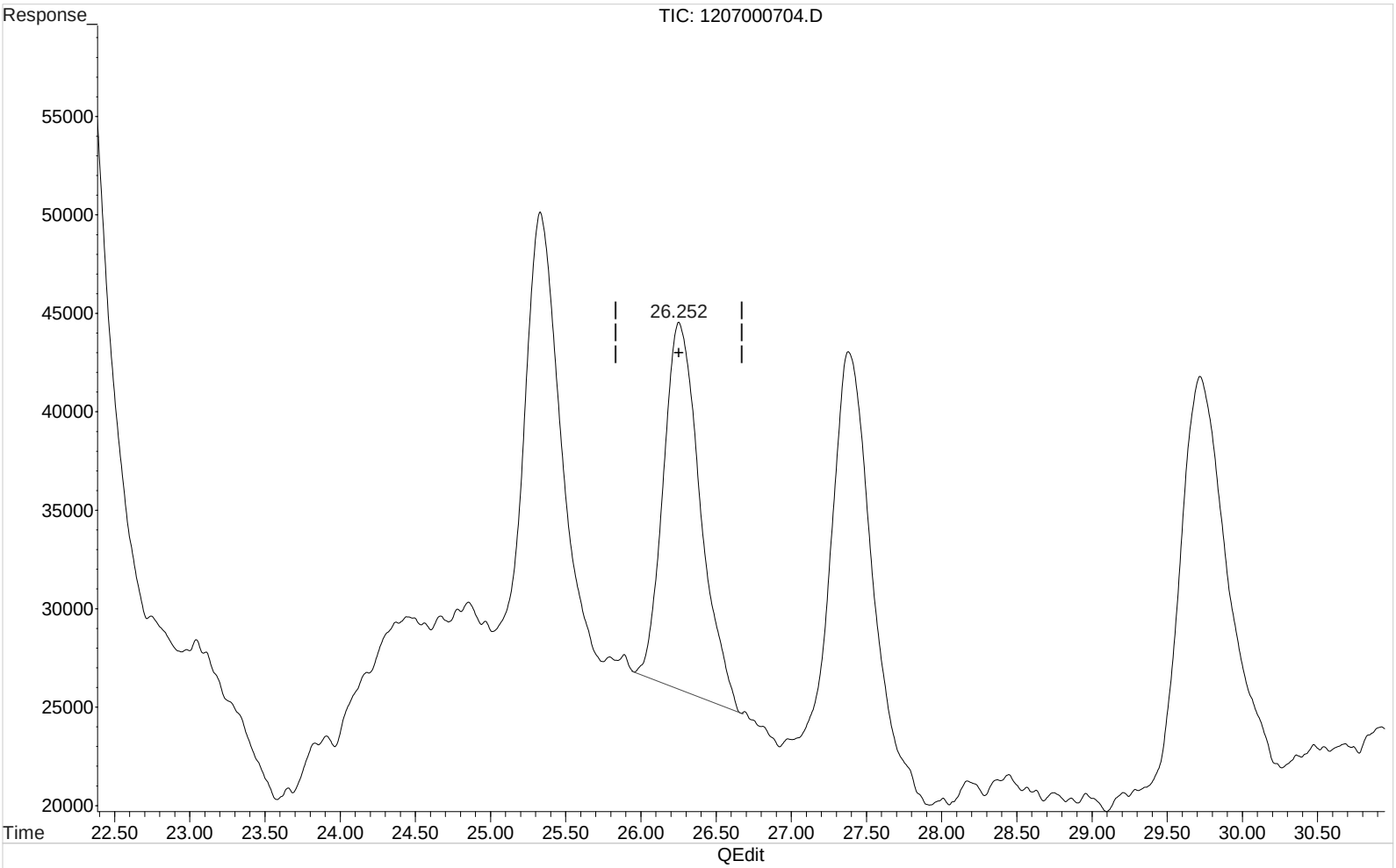
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(16) 4-NT (T)

26.252min 0.000 ug/L m

response 319957

Manual Integration:

After

BLC

12/08/16

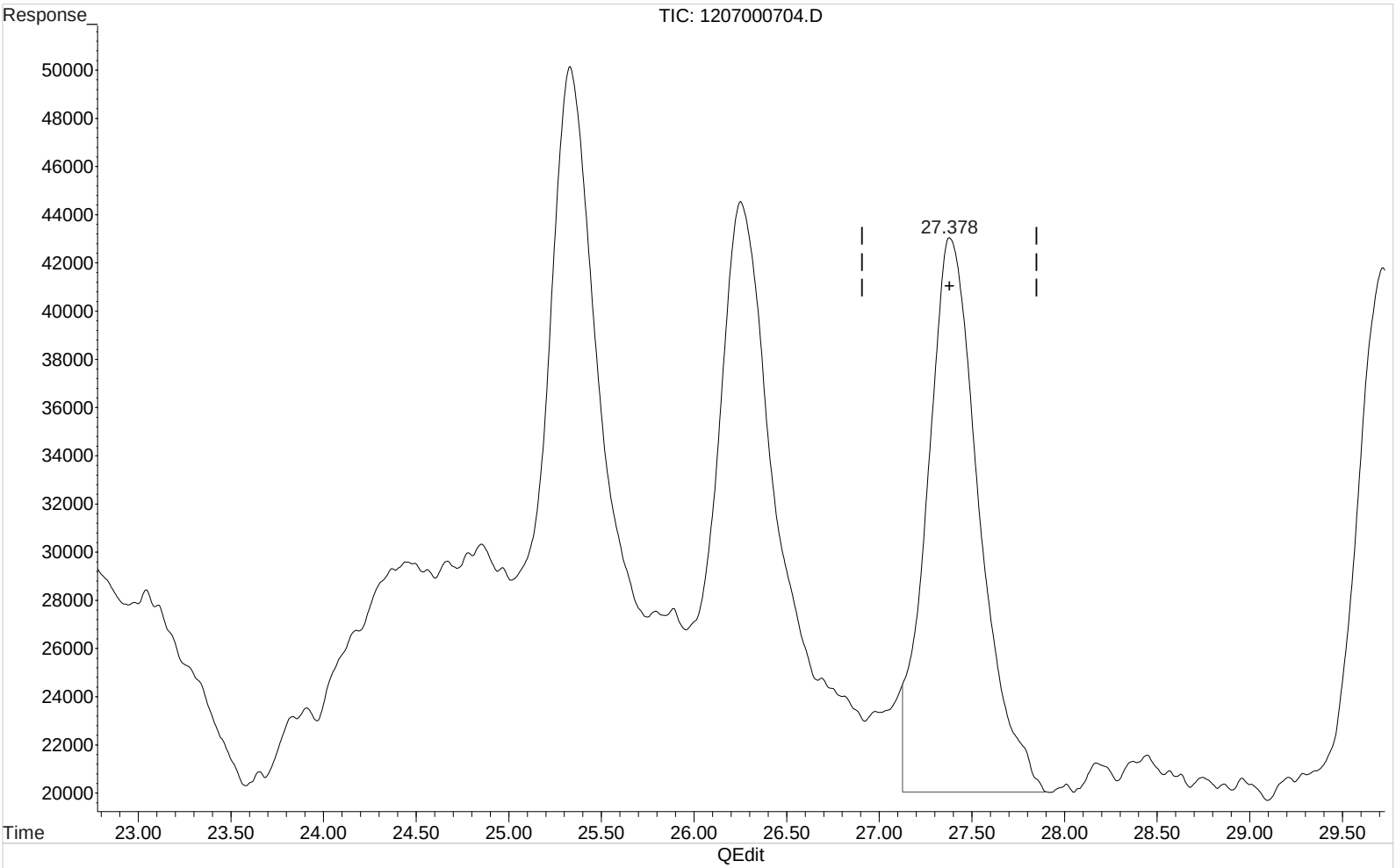
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.378min 0.000 ug/L

response 452684

Manual Integration:

Before

12/08/16

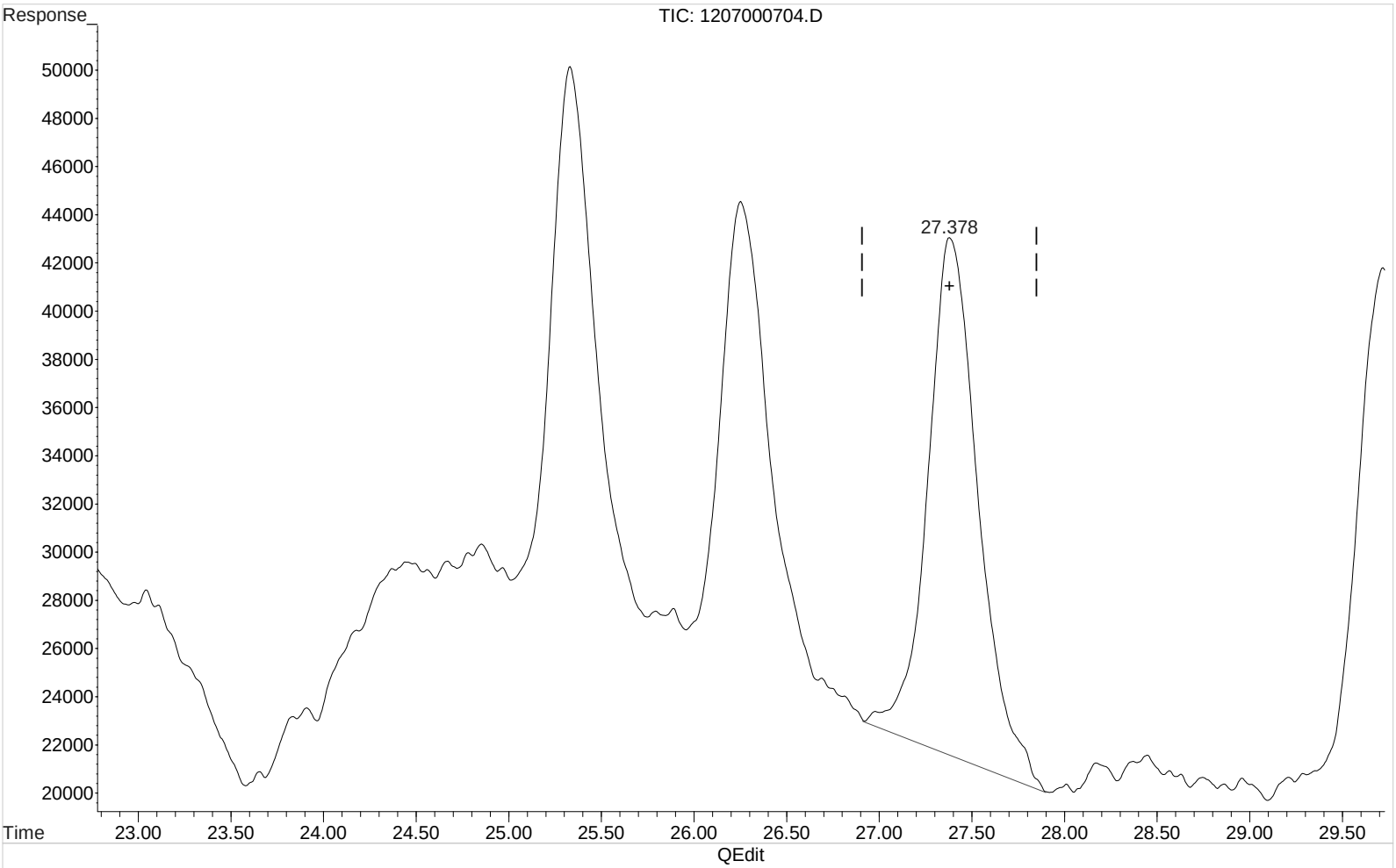
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.378min 0.000 ug/L m

response 411159

Manual Integration:

After

BLC

12/08/16

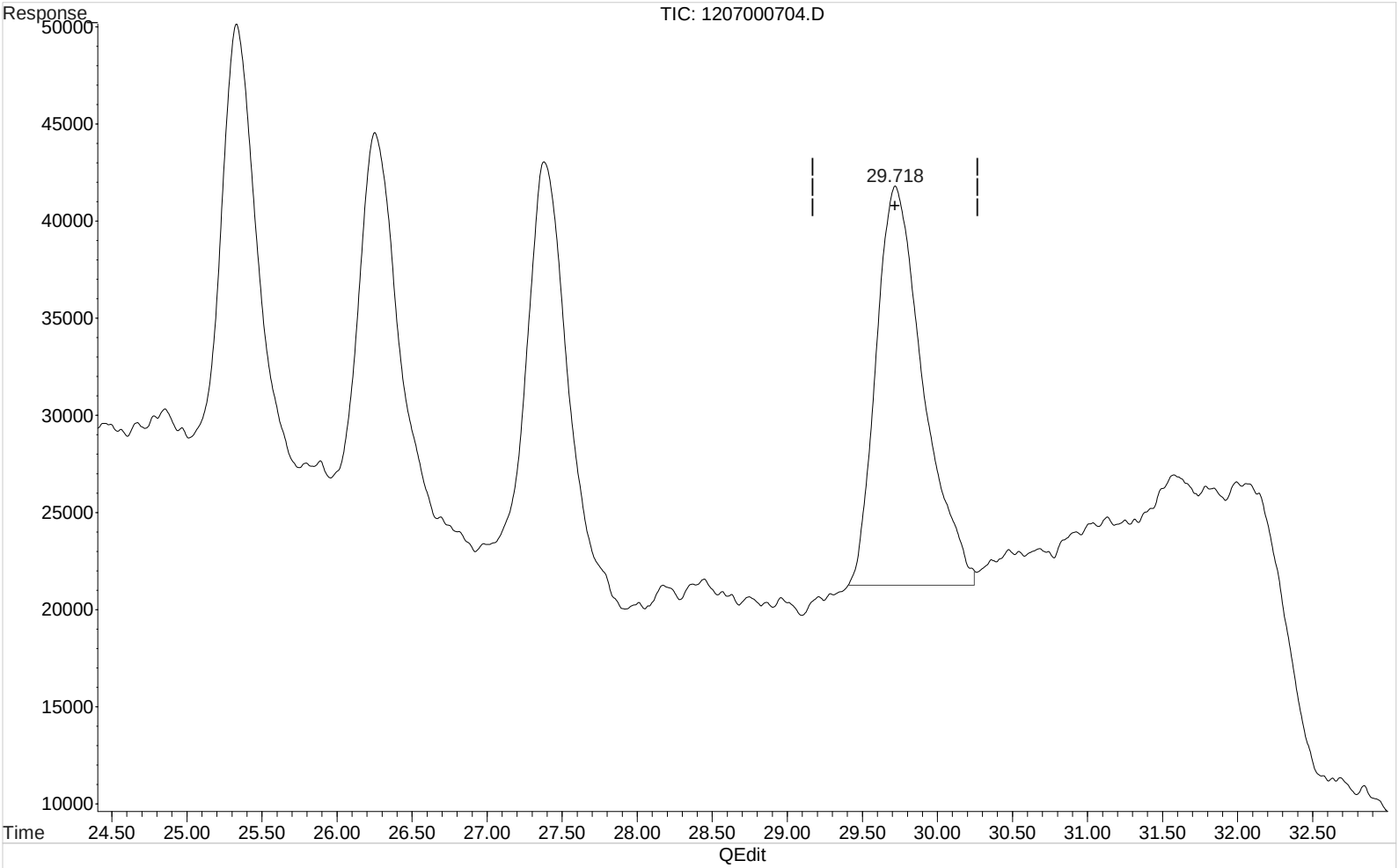
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(18) 1-Chloro-3-Nitrobenzene (S)

29.718min 0.000 ug/L

response 448530

Manual Integration:

Before

12/08/16

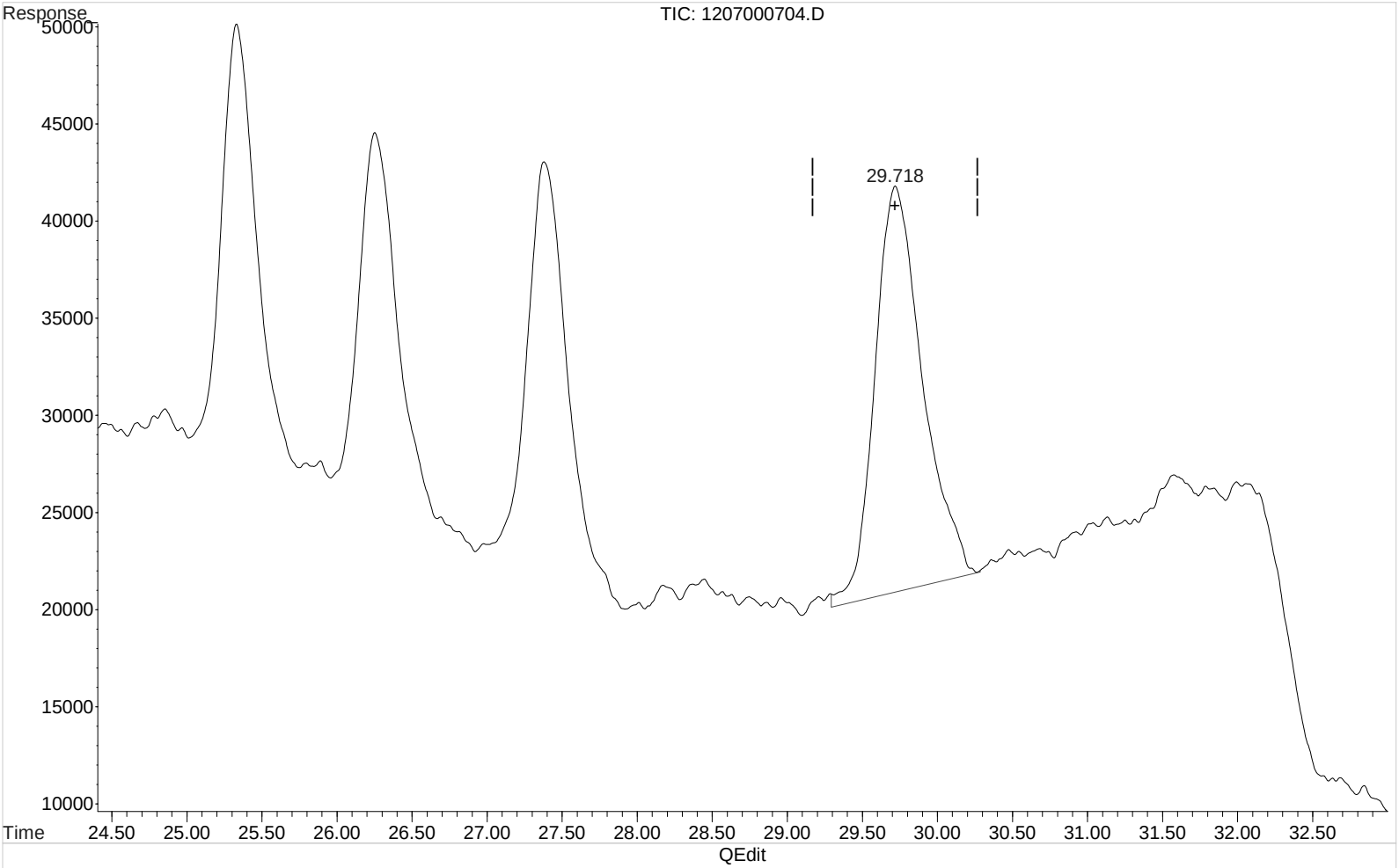
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(18) 1-Chloro-3-Nitrobenzene (S)

29.718min 0.000 ug/L m

response 461332

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)

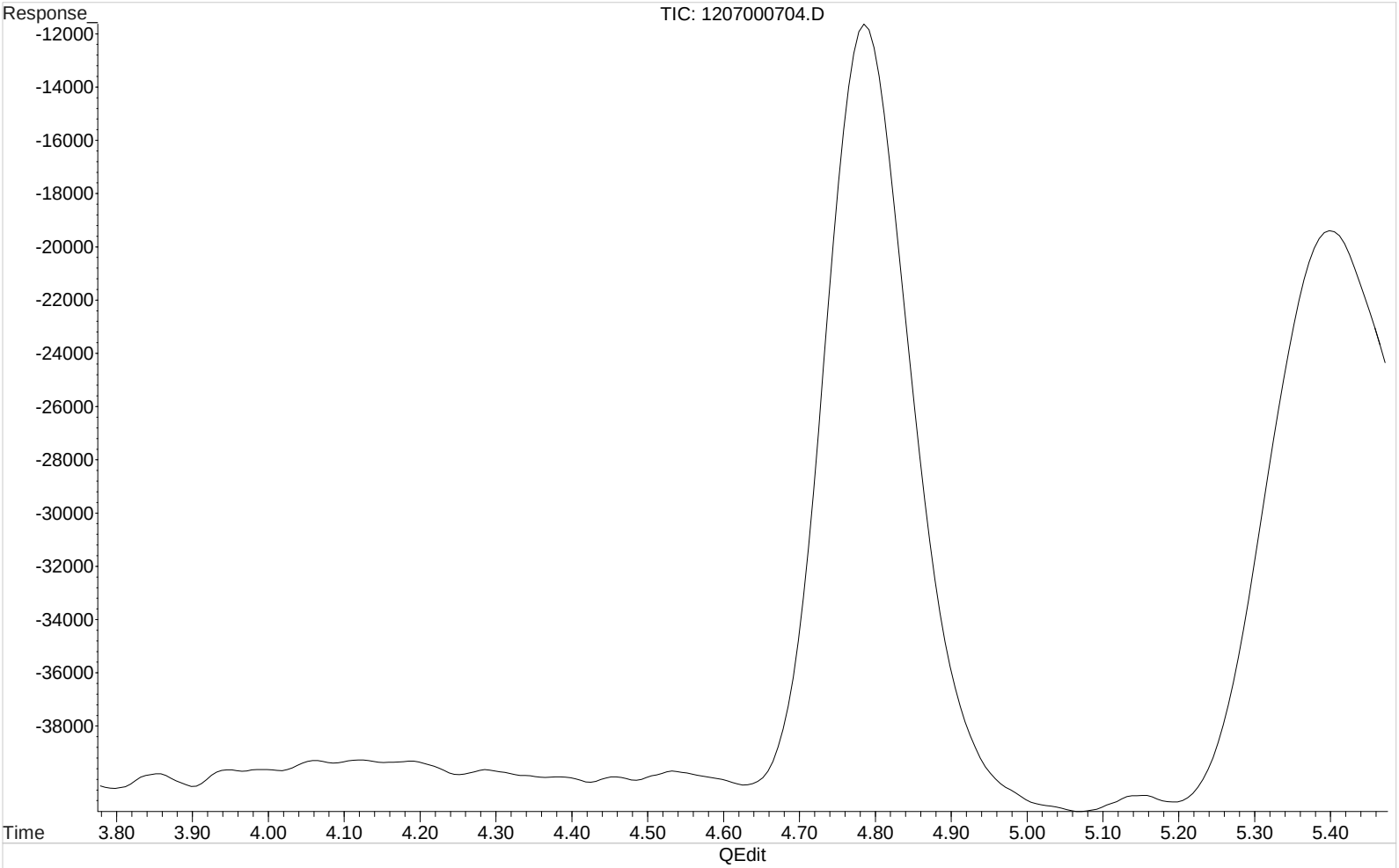
2/08/16

2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(2) HMX (T)

4.625min 0.000 ug/L

response 0

Manual Integration:

Before

12/08/16

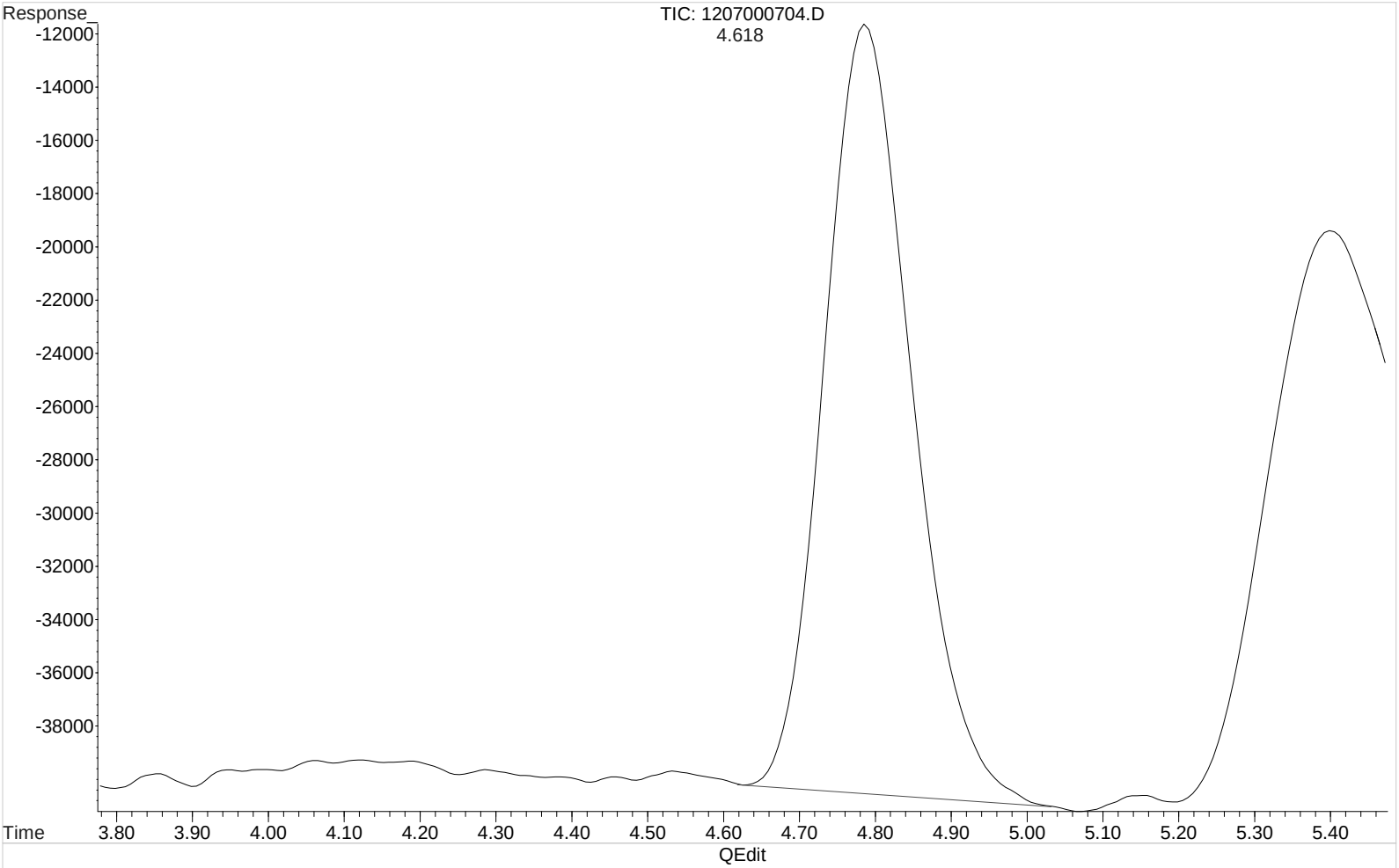
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(2) HMX (T)

4.618min 0.000 ug/L m

response 232698

Manual Integration:

After

BLC

12/08/16

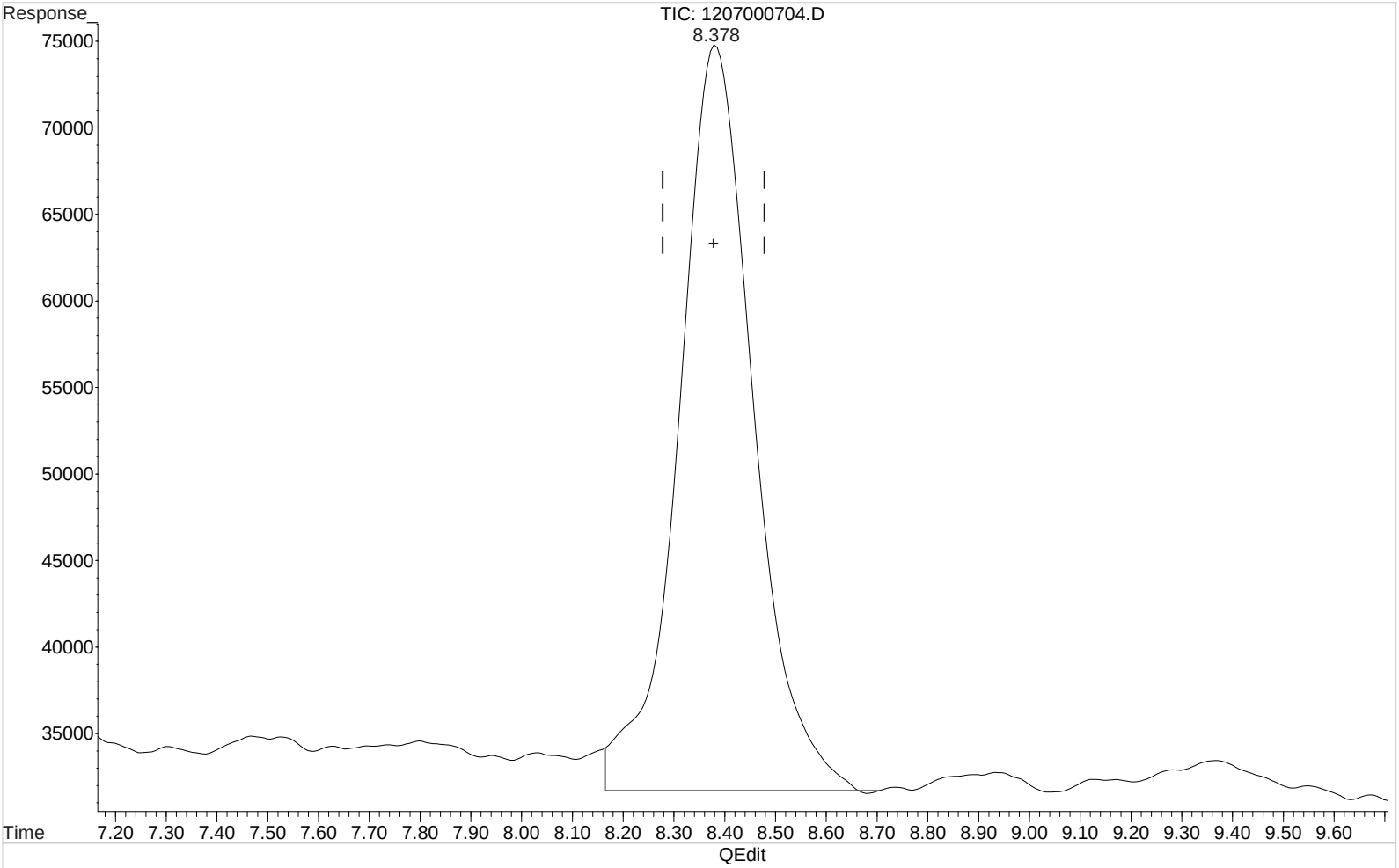
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(4) RDX (T)

8.378min 0.000 ug/L

response 440014

Manual Integration:

Before

12/08/16

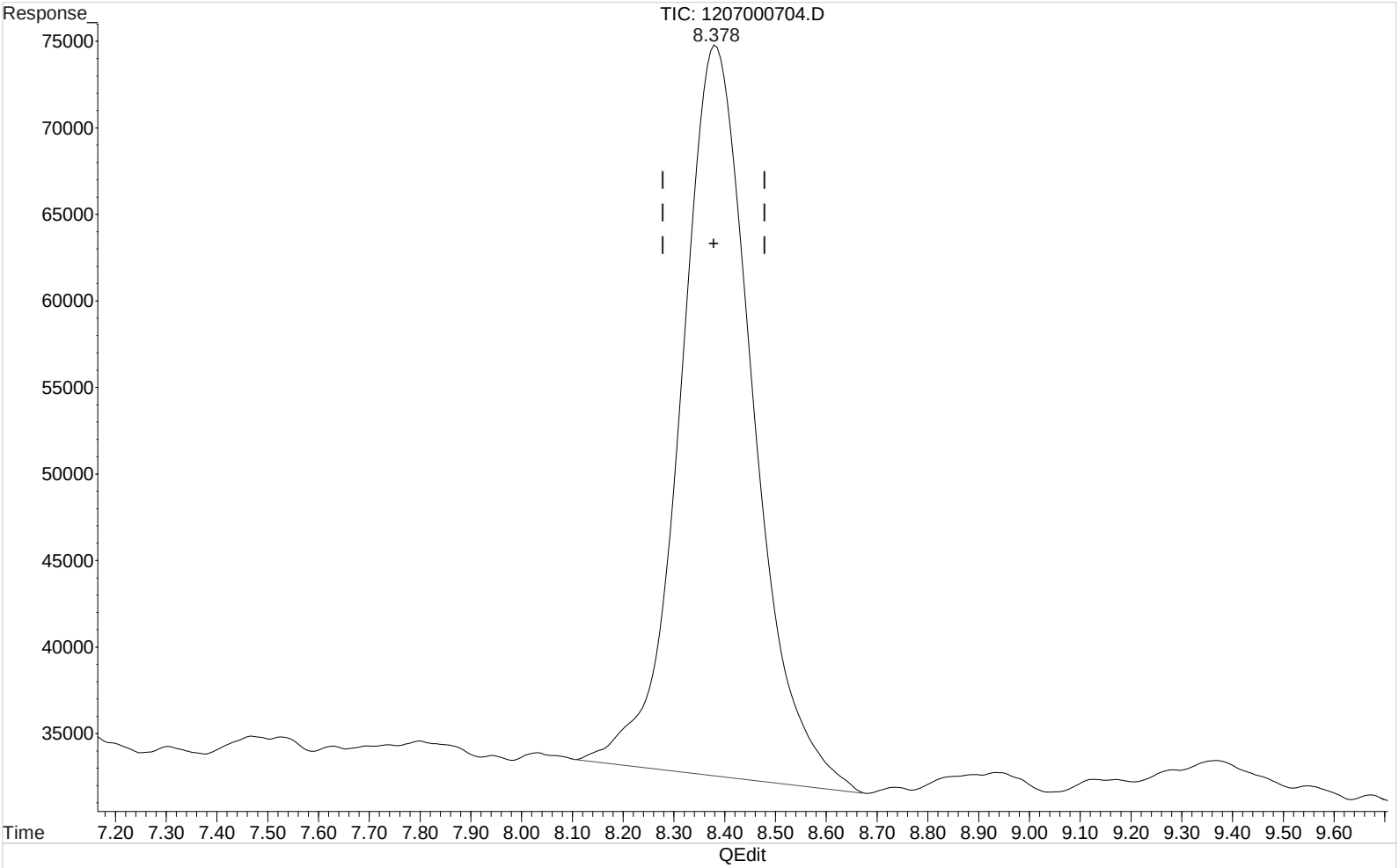
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(4) RDX (T)

8.378min 0.000 ug/L m

response 420328

Manual Integration:

After

BLC

12/08/16

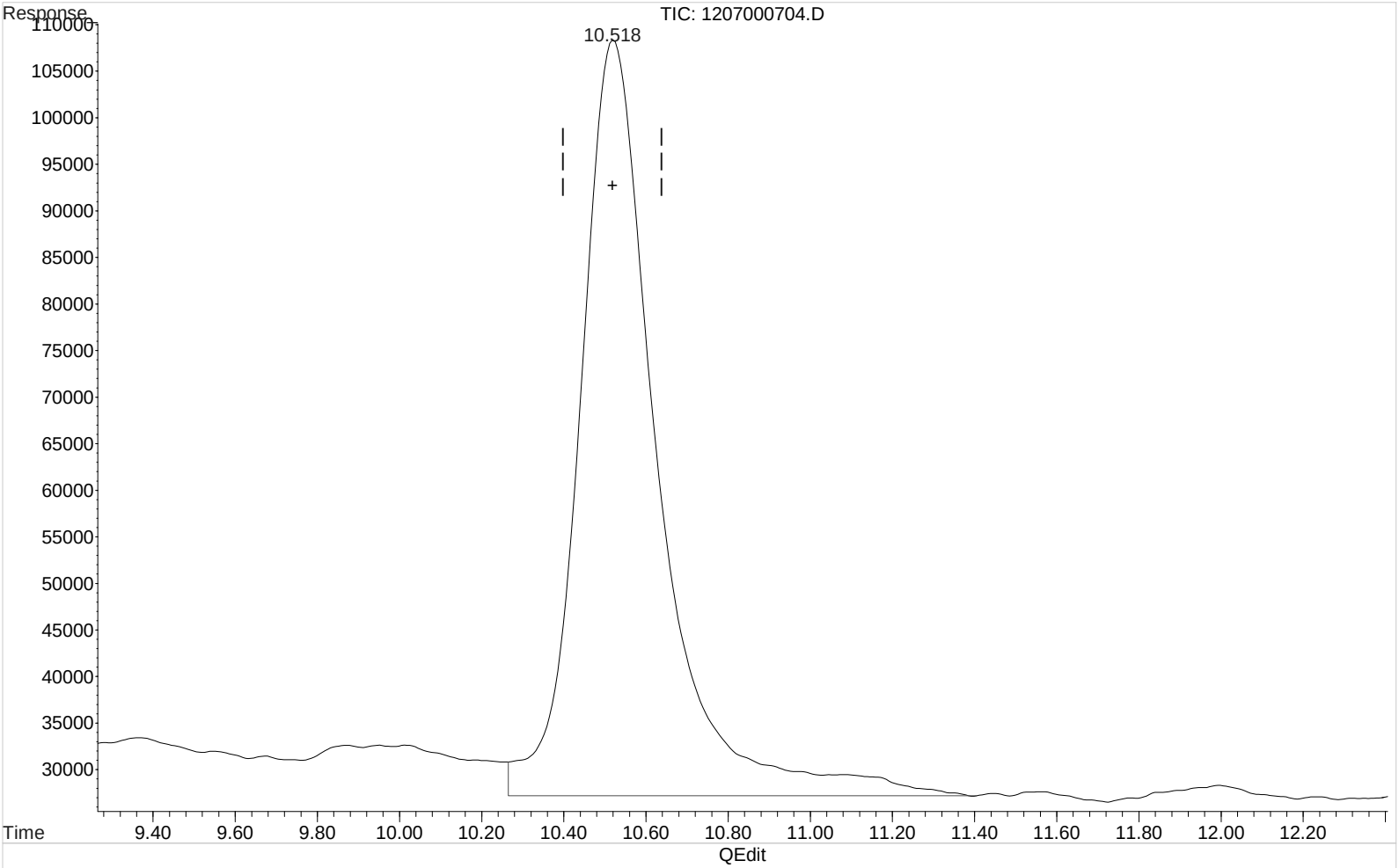
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(5) 1,3,5-TNB (T)

10.518min 0.000 ug/L

response 1075873

Manual Integration:

Before

12/08/16

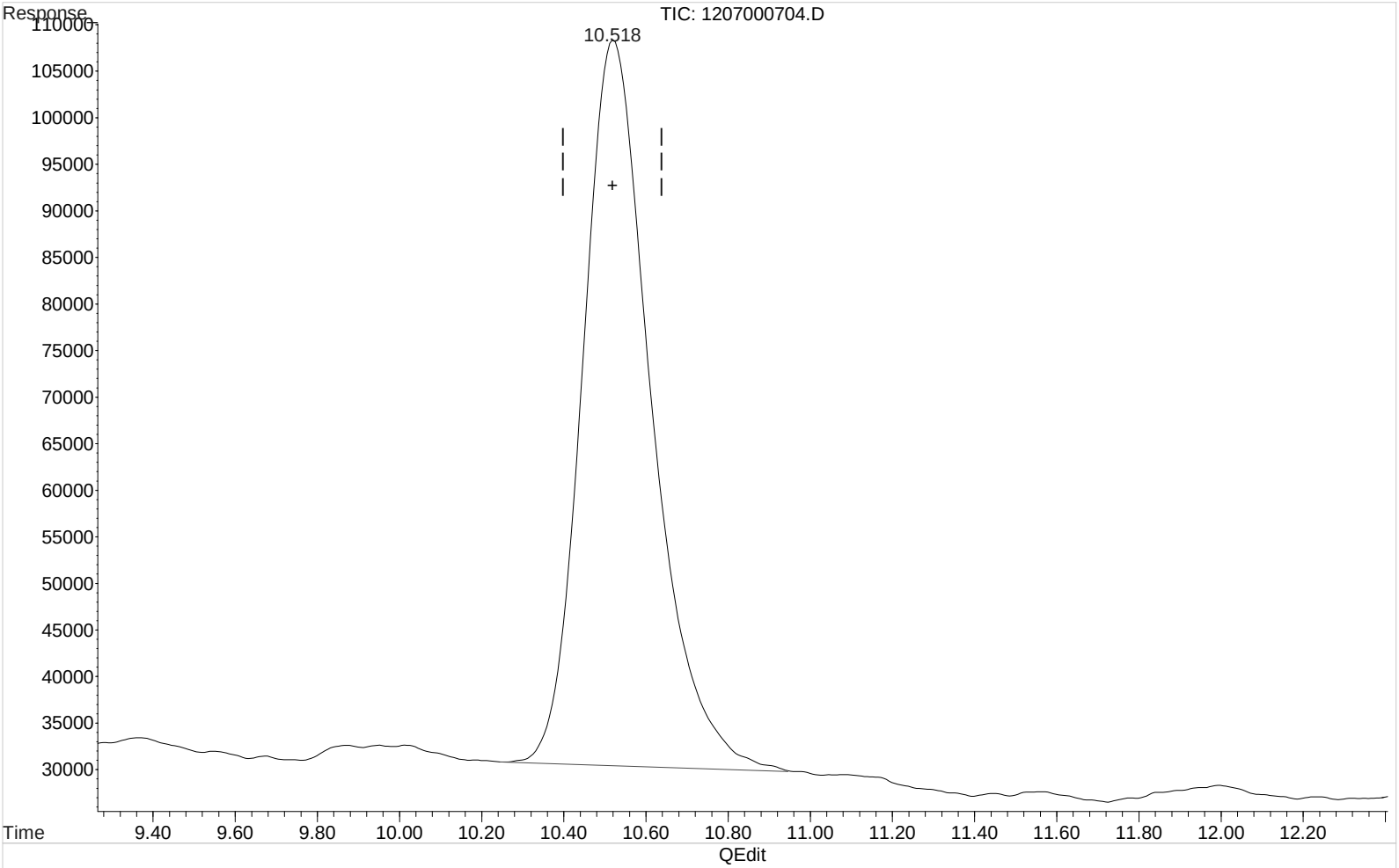
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(5) 1,3,5-TNB (T)

10.518min 0.000 ug/L m

response 908690

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)

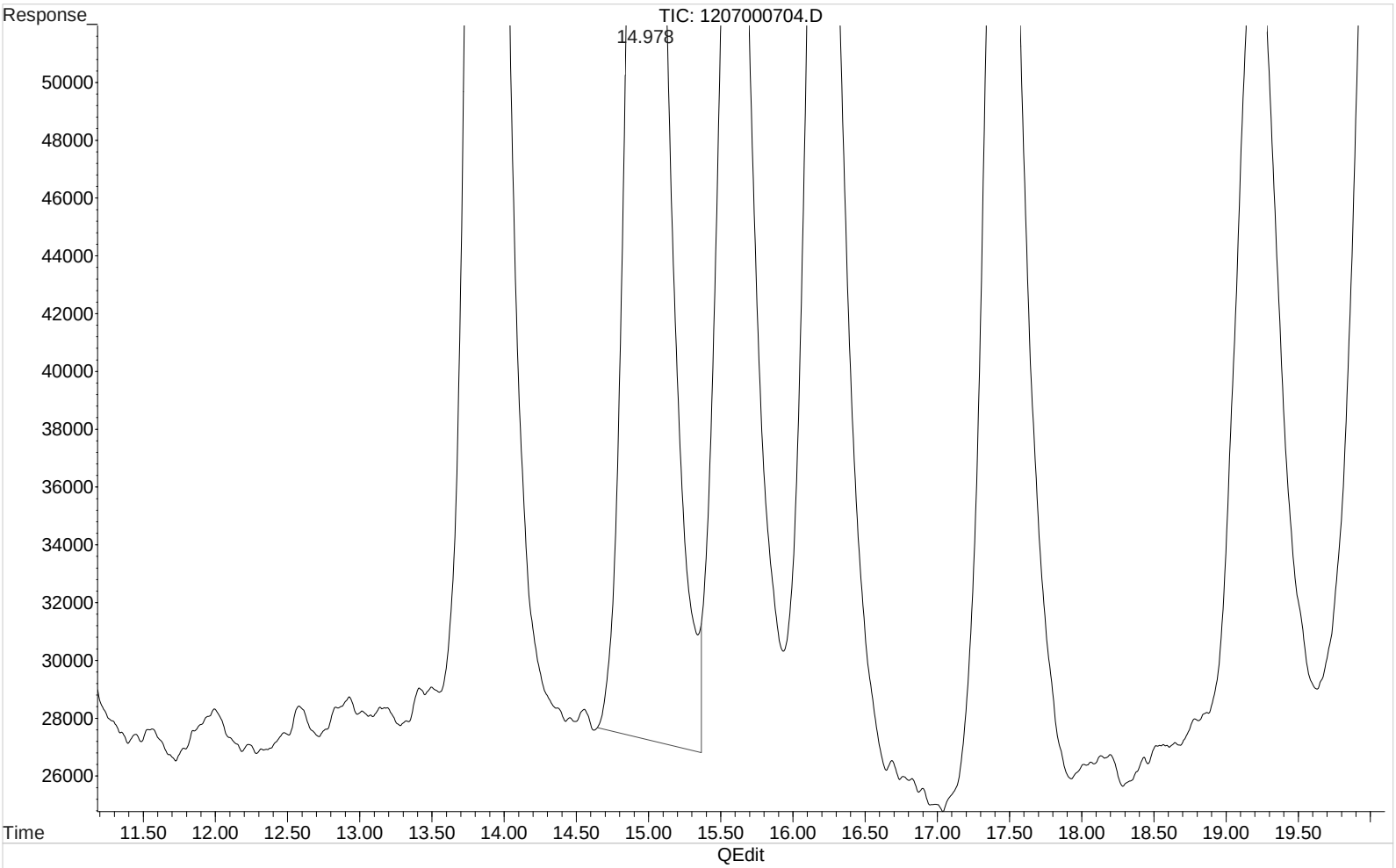
2/08/16

2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(7) 3,5-Dinitroaniline (T)

14.978min 0.000 ug/L

response 975452

Manual Integration:

Before

12/08/16

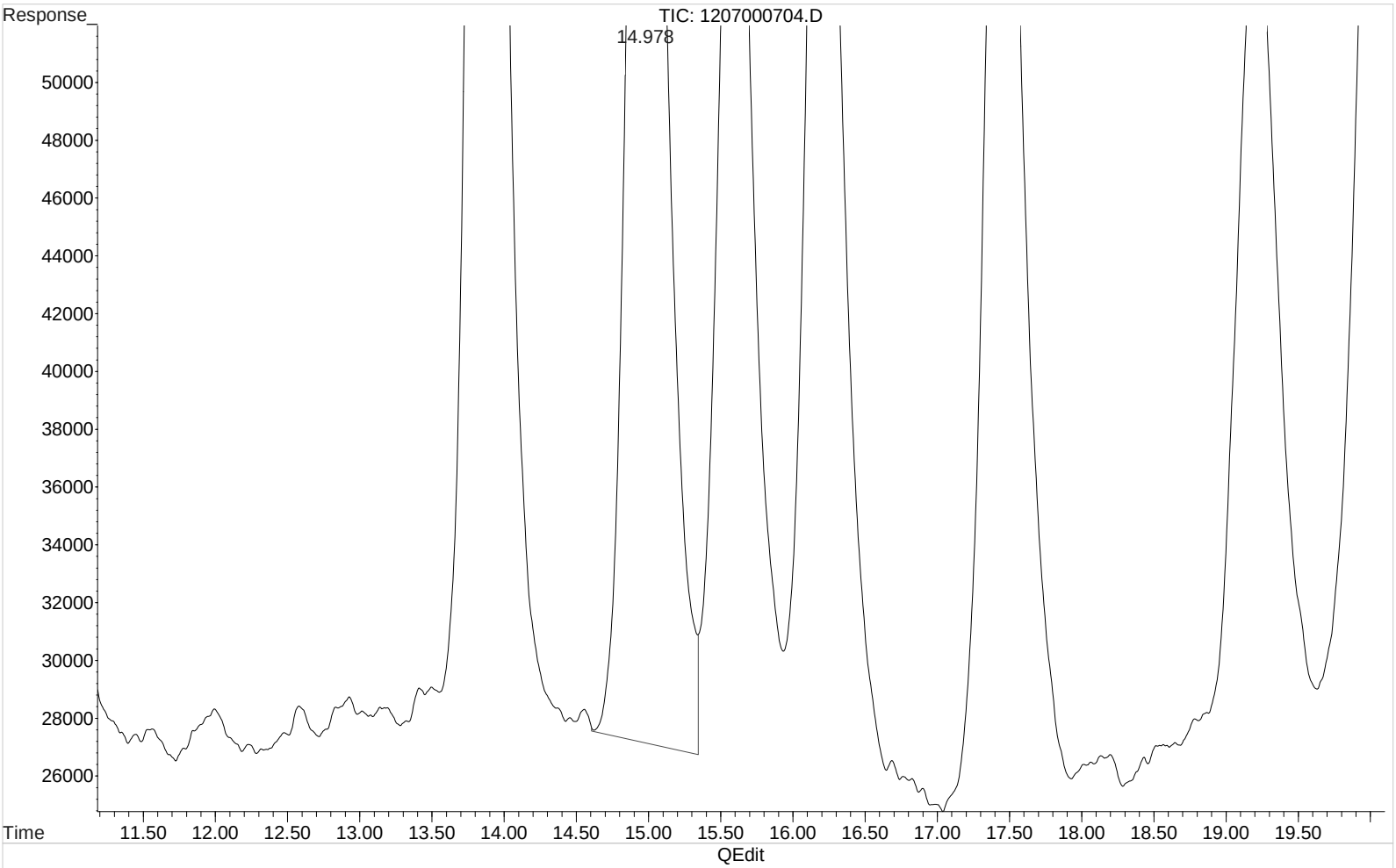
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.978min 0.000 ug/L m

response 975768

Manual Integration:

After

BLC

12/08/16

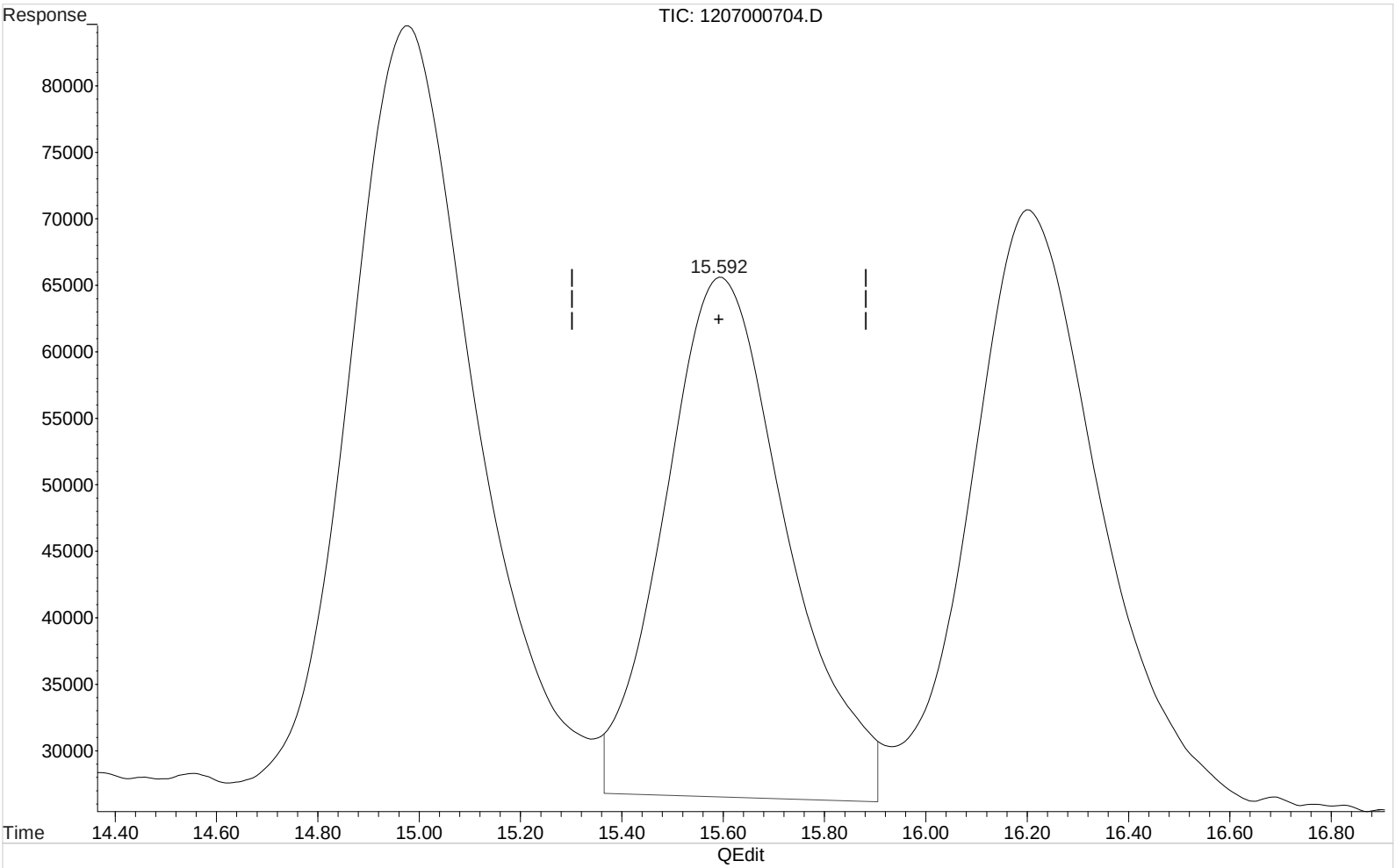
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.592min 0.000 ug/L

response 653235

Manual Integration:

Before

12/08/16

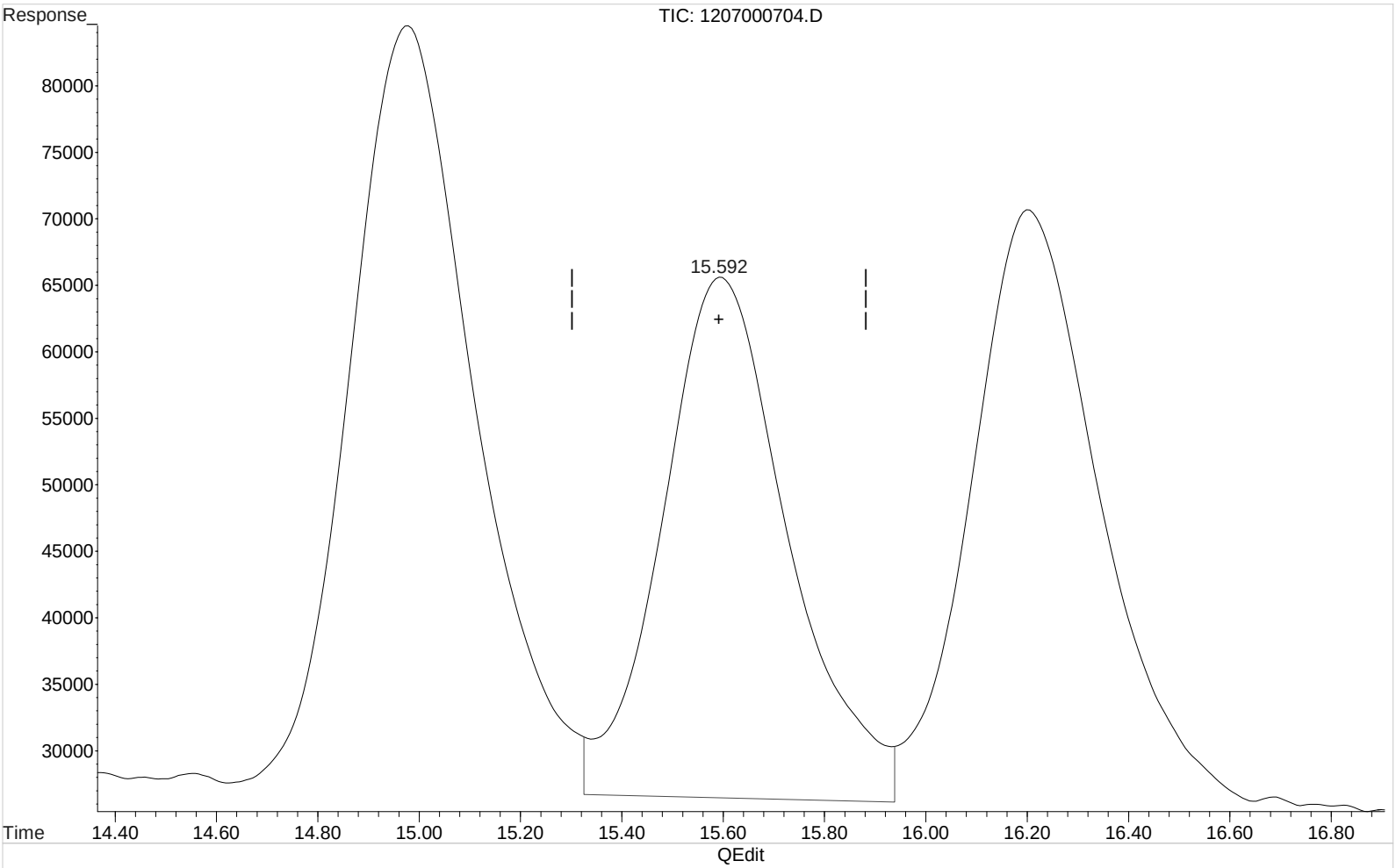
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.592min 0.000 ug/L m

response 673809

Manual Integration:

After

BLC

12/08/16

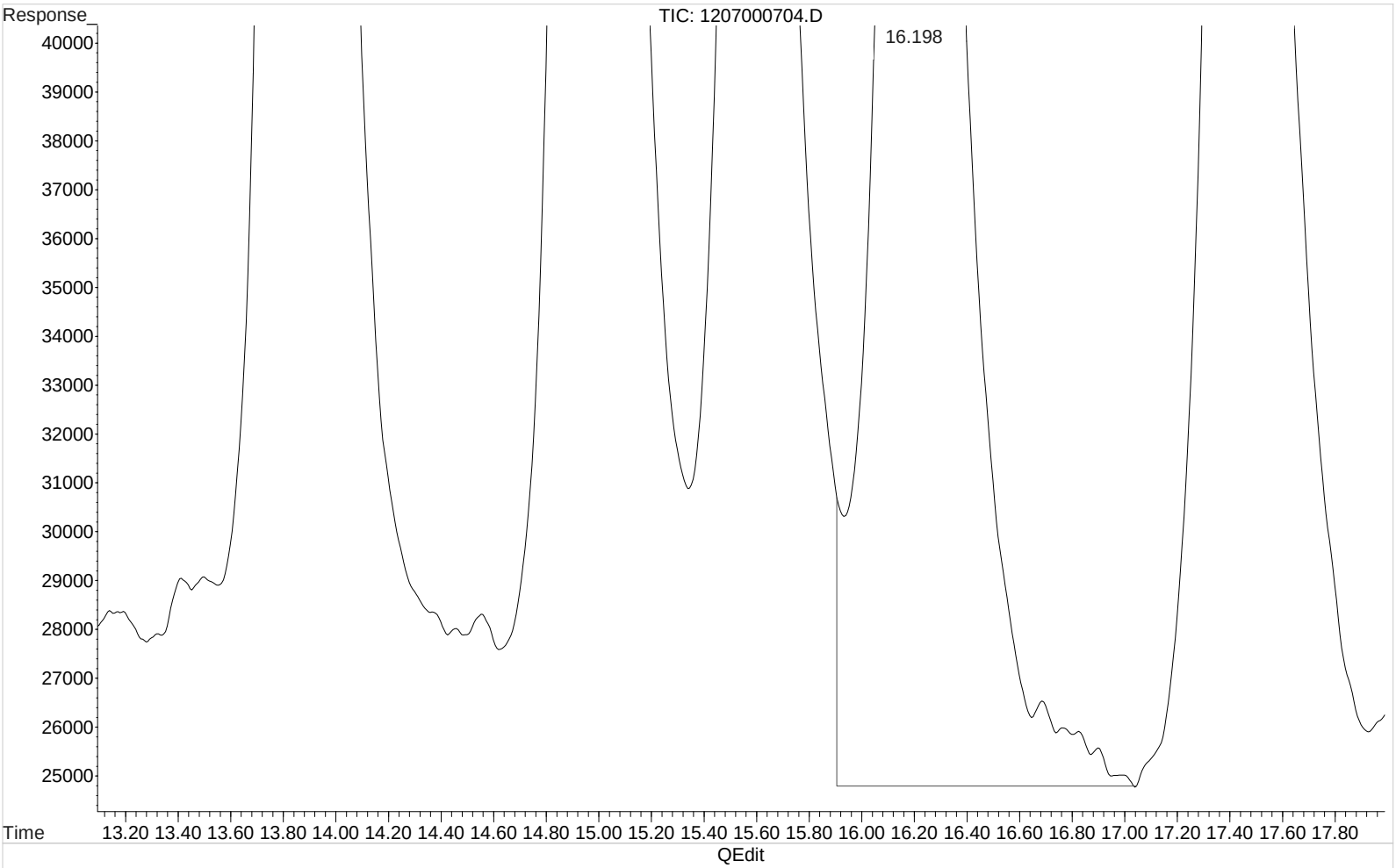
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(9) Nitrobenzene (T)

16.198min 0.000 ug/L

response 865148

Manual Integration:

Before

12/08/16

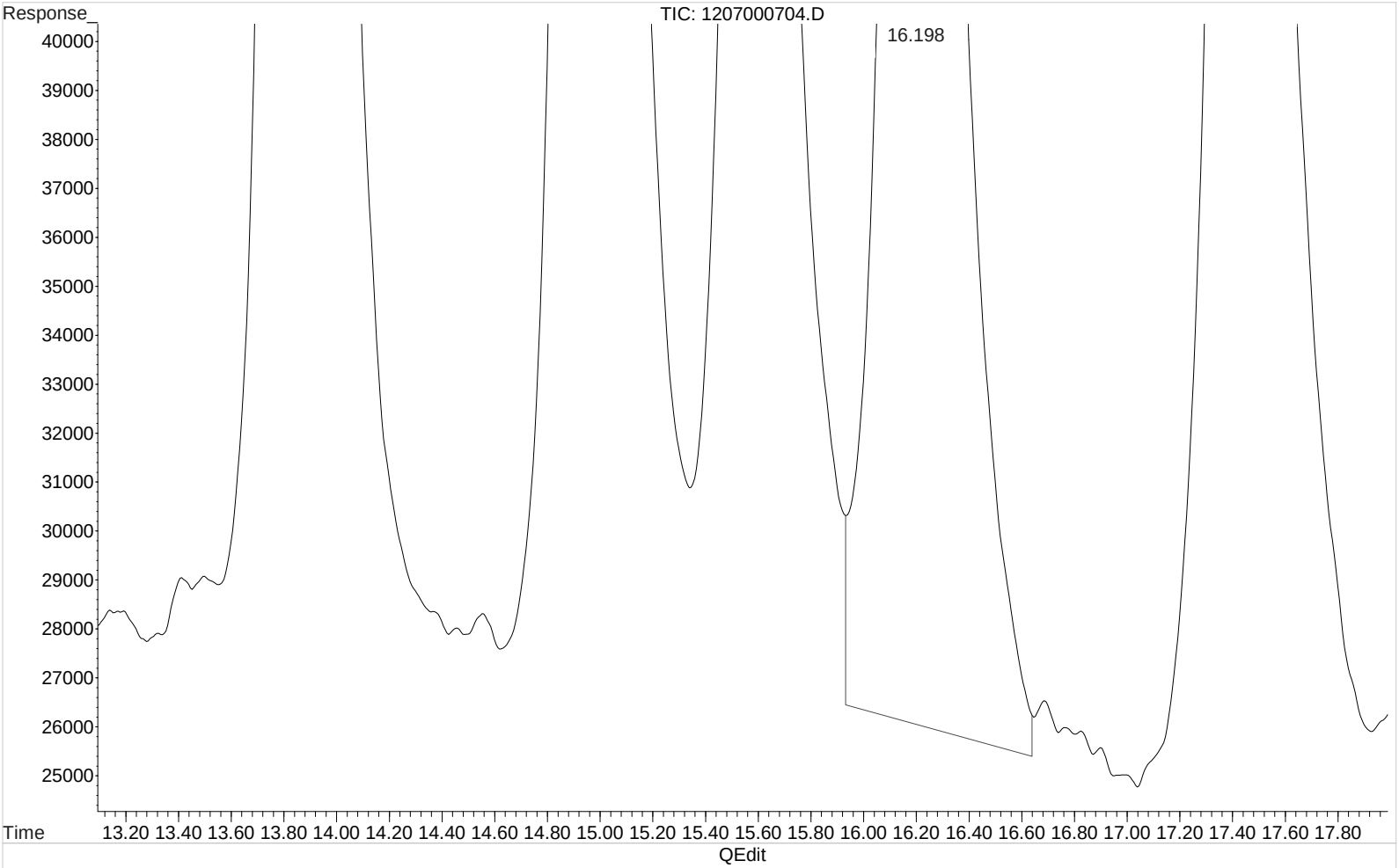
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(9) Nitrobenzene (T)

16.198min 0.000 ug/L m

response 787874

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:09 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
18) S	1-Chloro-3-Nitrobenzene	29.700	1102787	47.809	ug/L	m
	Target Compounds					
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2) T	HMX	4.787	592400	50.916	ug/L	m
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4) T	RDX	8.380	978940	46.580	ug/L	m
5) T	1,3,5-TNB	10.520	2272781	50.023	ug/L	
6) T	1,3-DNB	13.860	3069012	48.773	ug/L	m
7) T	3,5-Dinitroaniline	14.967	2382128	48.826	ug/L	m
8) T	Tetryl	15.587	1676426	49.760	ug/L	m
9) T	Nitrobenzene	16.200	1950750	49.519	ug/L	m
10) T	2,4,6-TNT	17.447	2100866	52.688	ug/L	m
11) T	4-Amino-2,6-DNT	19.200	1535717	57.134	ug/L	m
12) T	2-Amino-4,6-DNT	20.034	2085917	43.852	ug/L	m
13) T	2,6-DNT	21.760	1280625	NoCal	ug/L	m
14) T	2,4-DNT	22.214	2955148	51.322	ug/L	m
15) T	2-NT	25.327	912402	52.158	ug/L	m
16) T	4-NT	26.254	806643	50.422	ug/L	m
17) T	3-NT	27.380	982059	47.770	ug/L	m

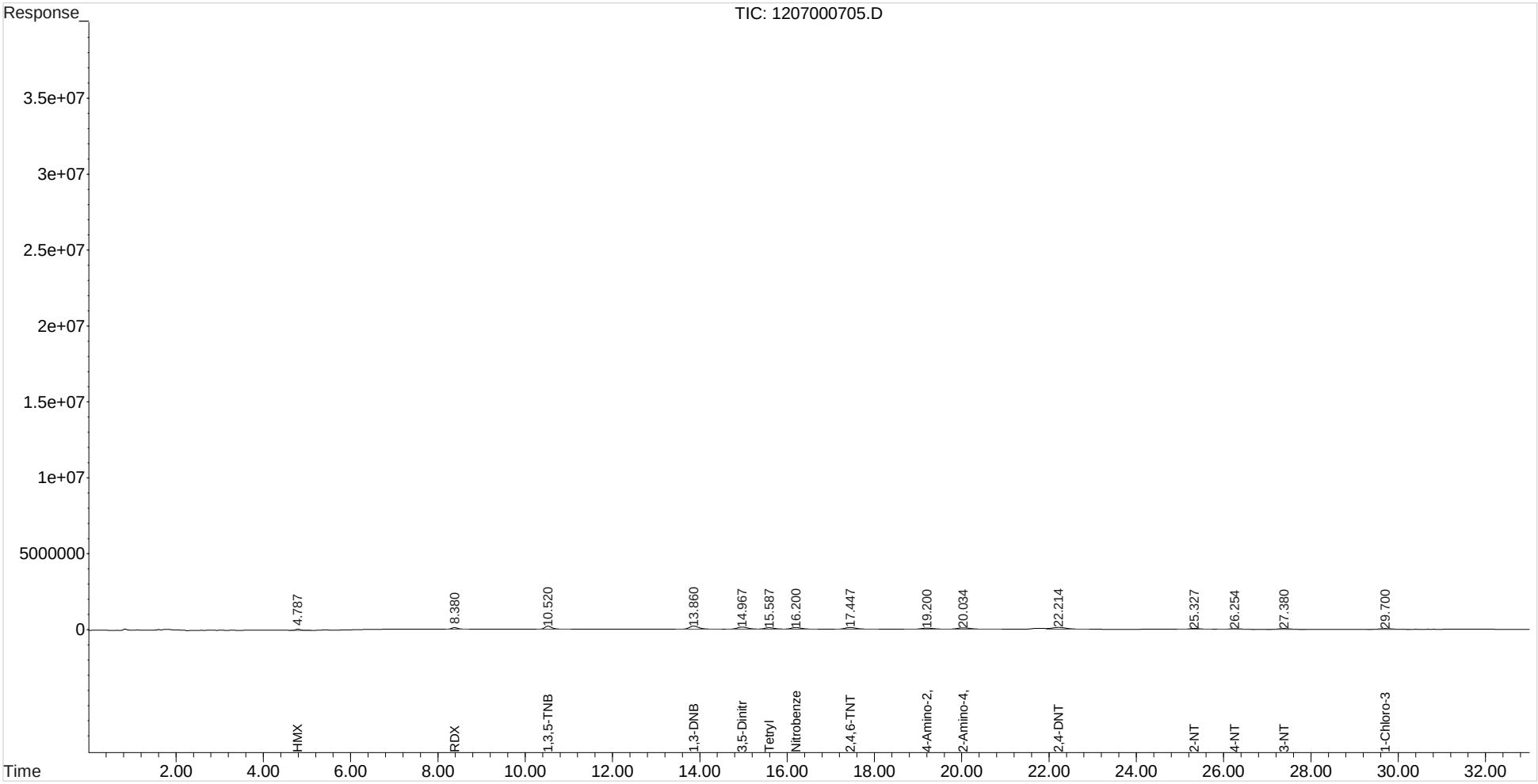
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:09 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

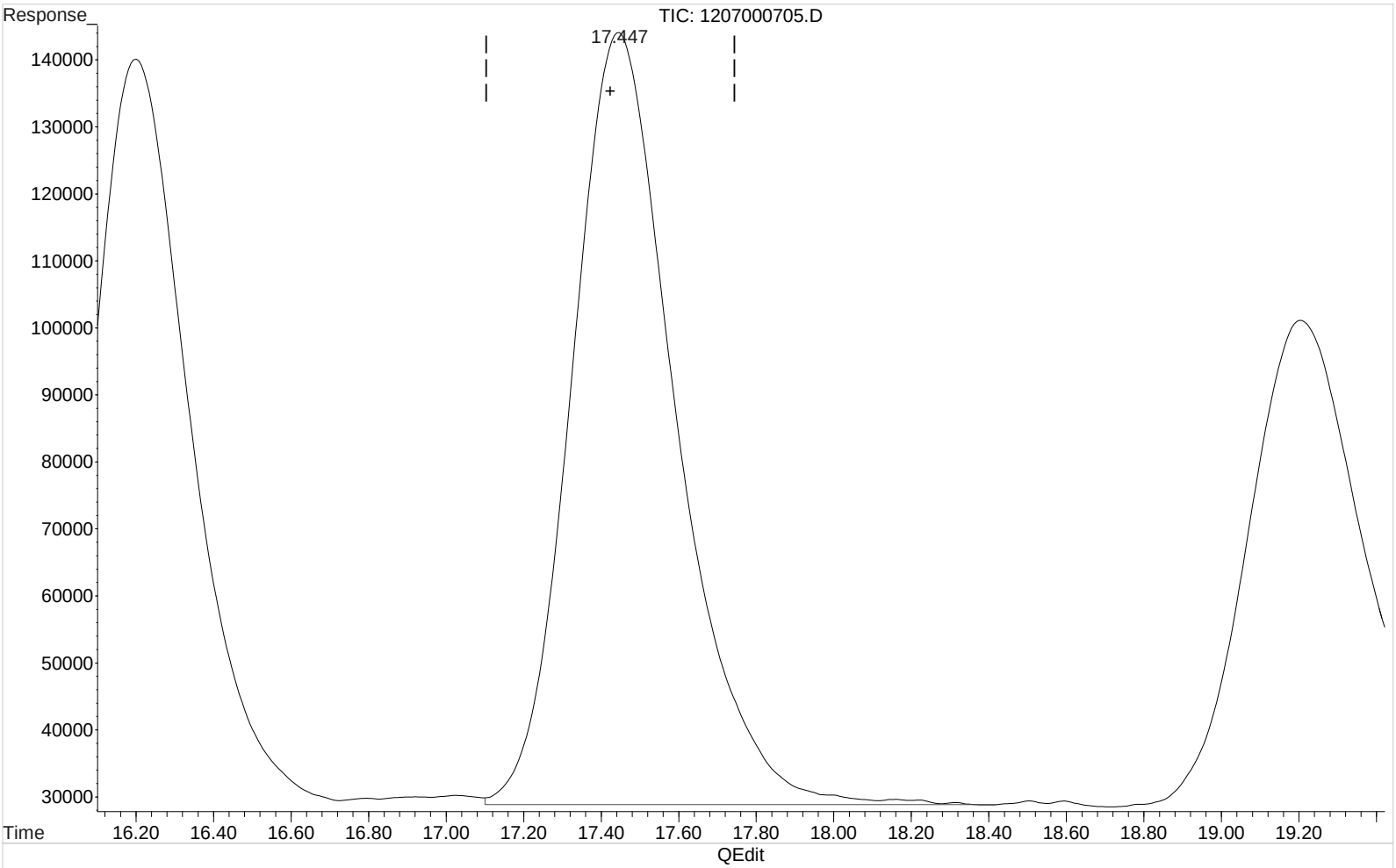


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(10) 2,4,6-TNT (T)

17.447min 54.187 ug/L

response 2160666

Manual Integration:

Before

12/08/16

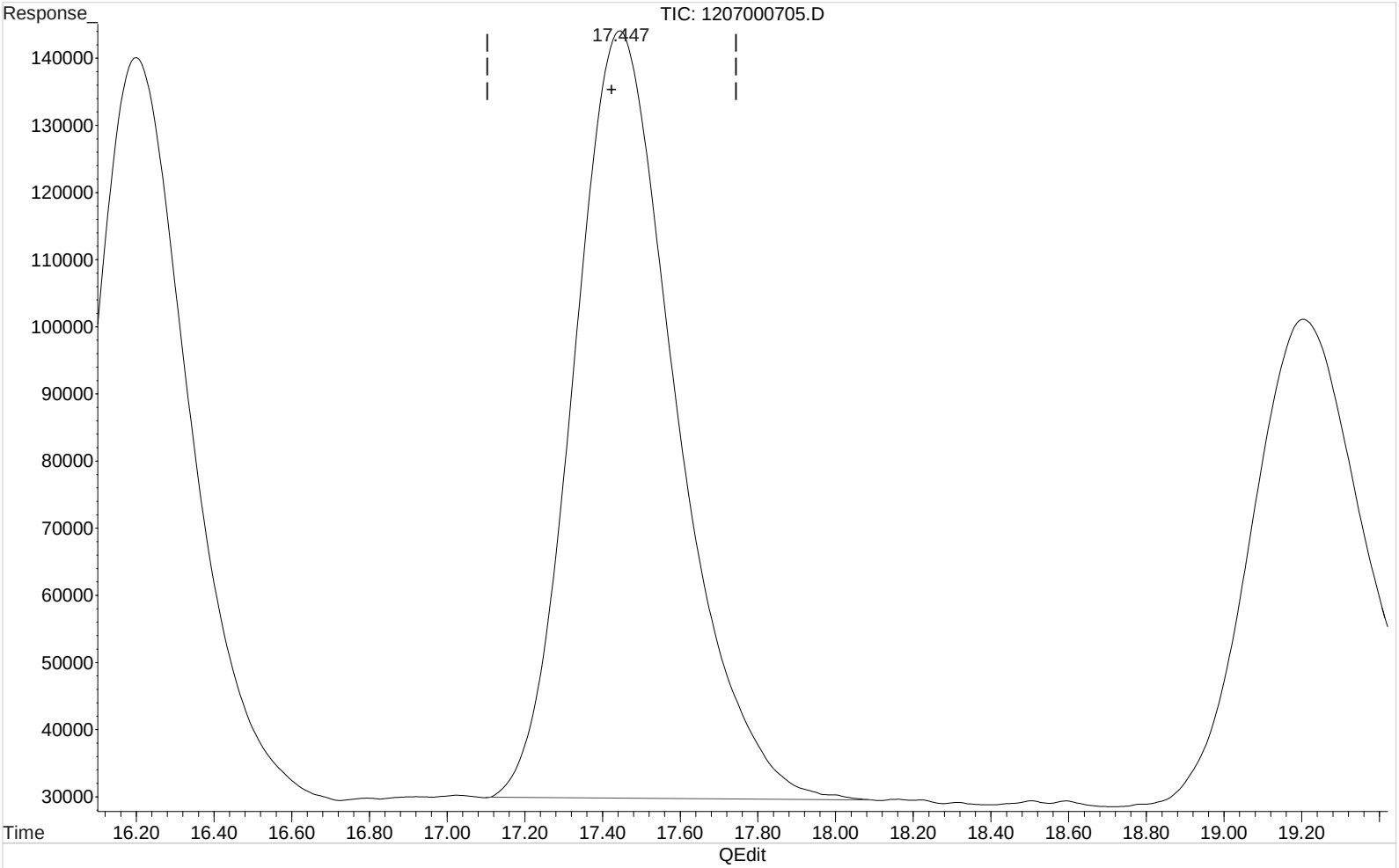
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(10) 2,4,6-TNT (T)

17.447min 52.688 ug/L m

response 2100866

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)

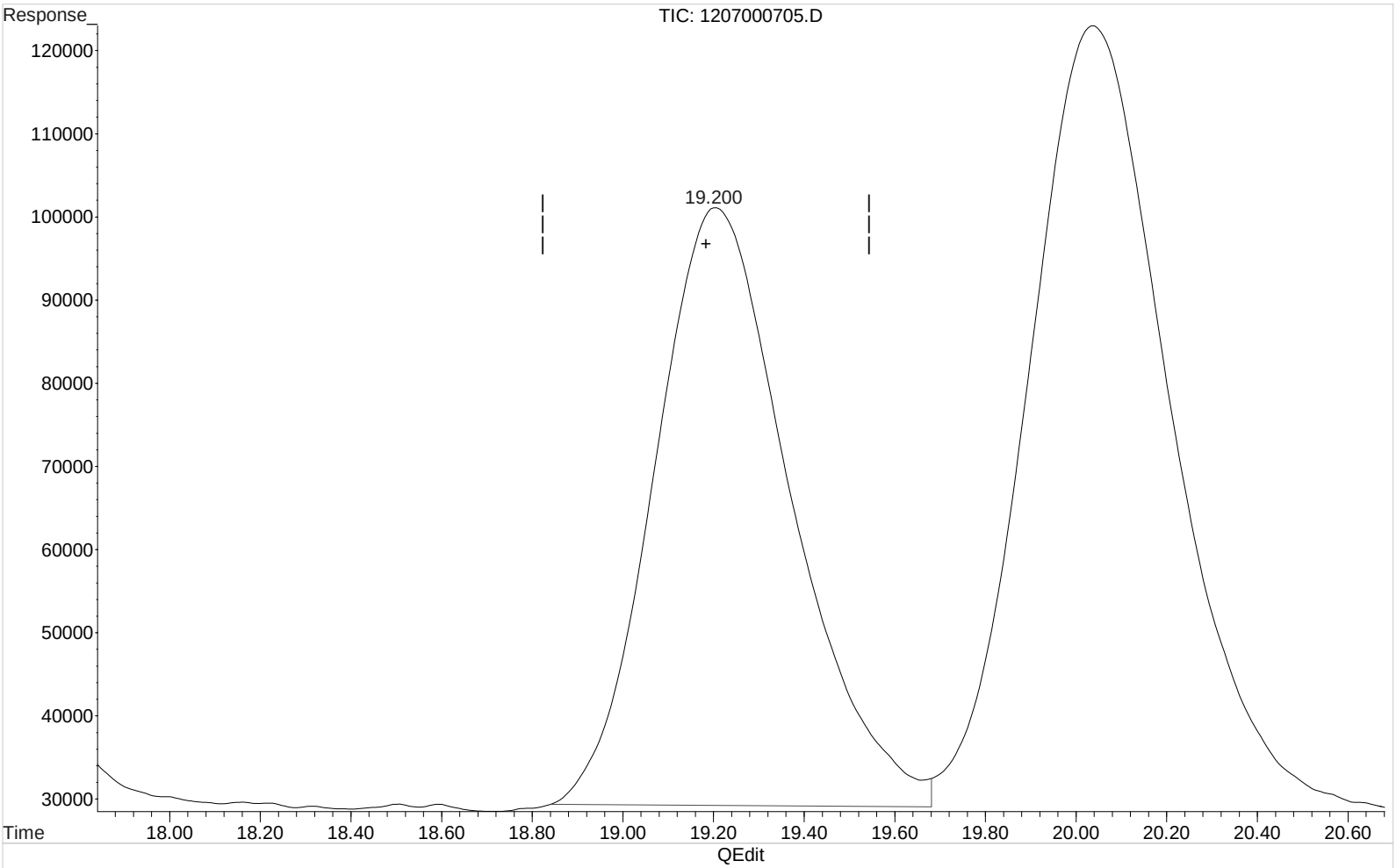
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(11) 4-Amino-2,6-DNT (T)

19.200min 55.799 ug/L

response 1499828

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

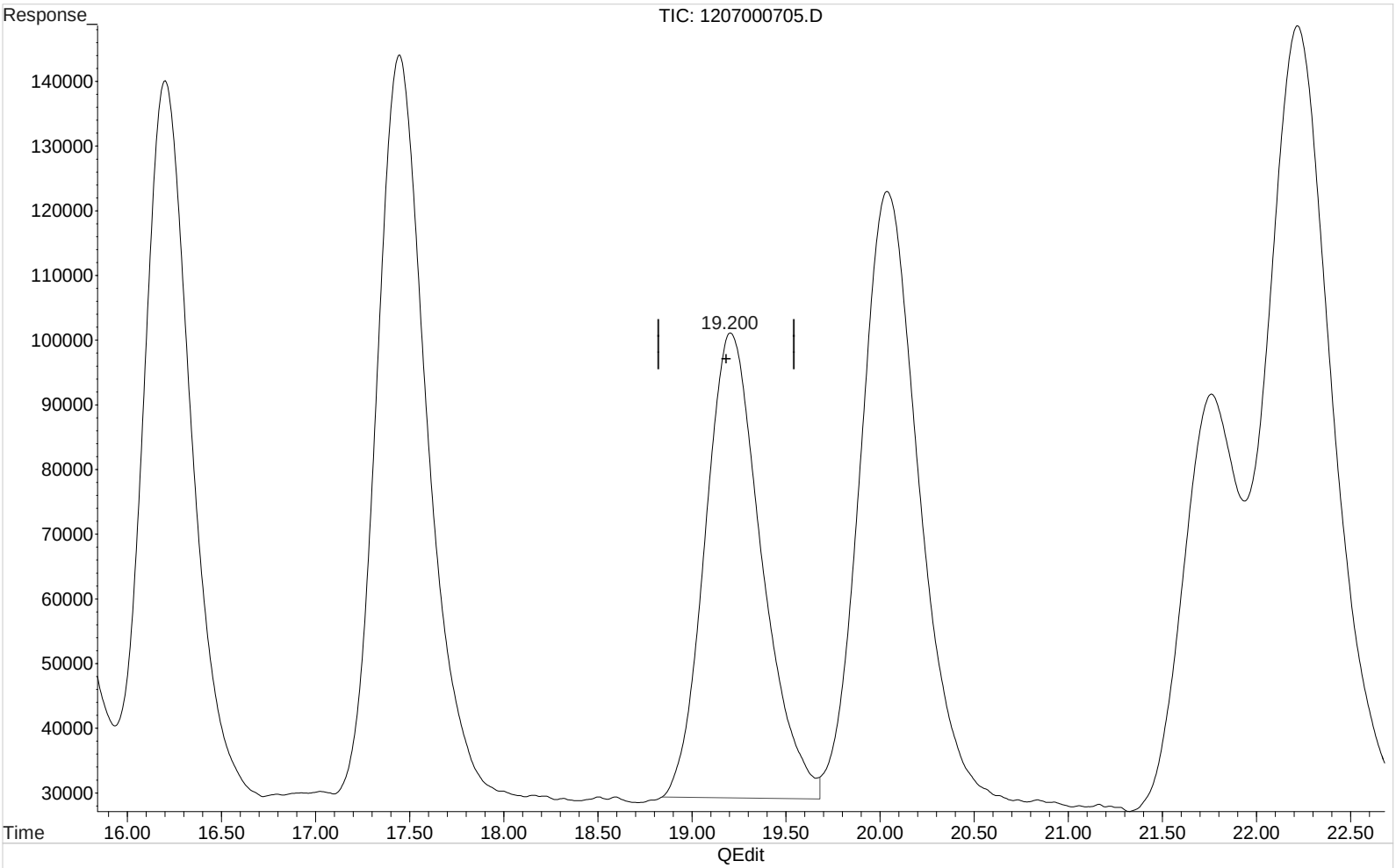
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(11) 4-Amino-2,6-DNT (T)

19.200min 55.799 ug/L

response 1499828

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

120716_8330B@254.M Thu Dec 08 08:58:31 2016

(b) (6)

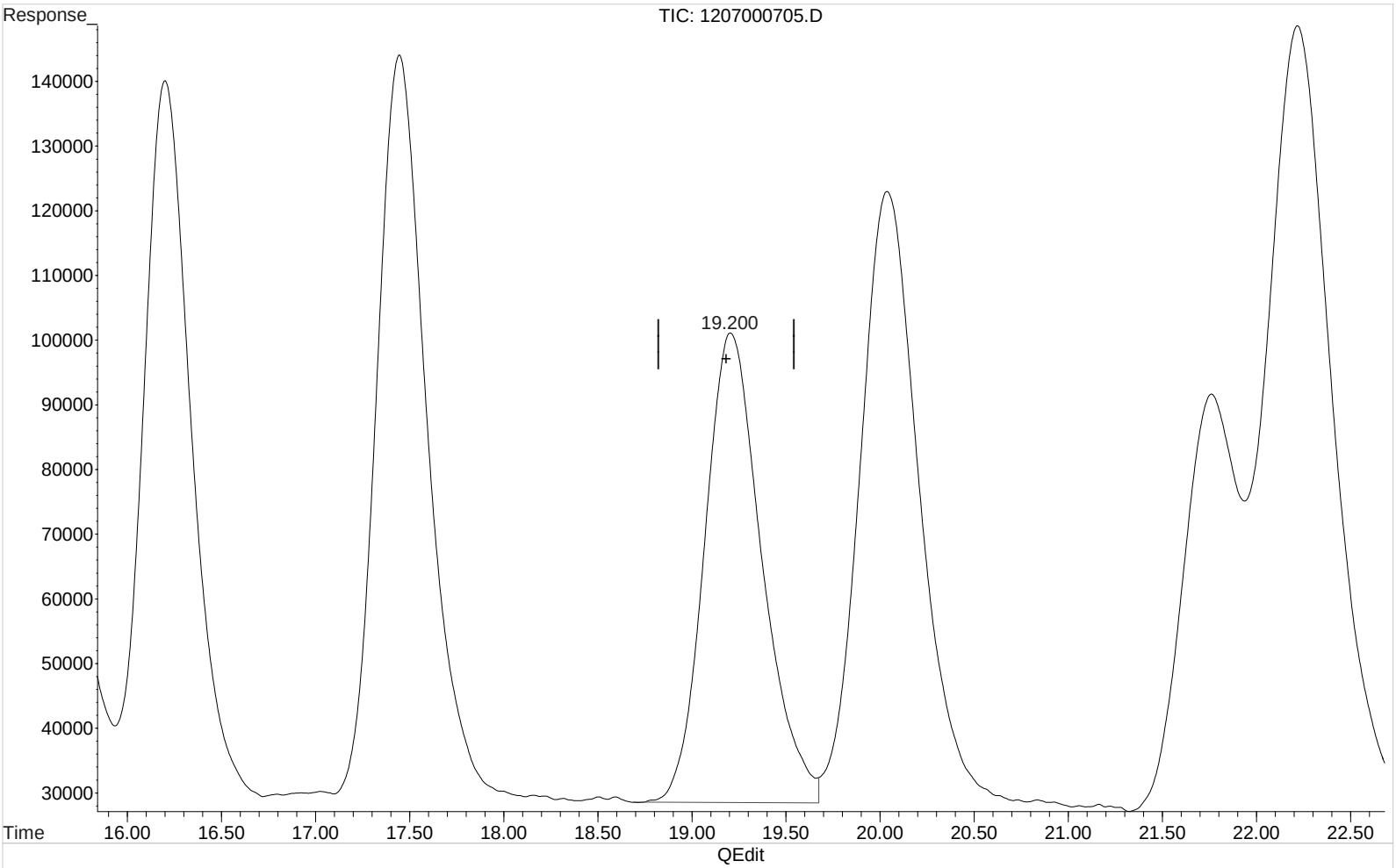
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(11) 4-Amino-2,6-DNT (T)

19.200min 57.134 ug/L m

response 1535717

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)

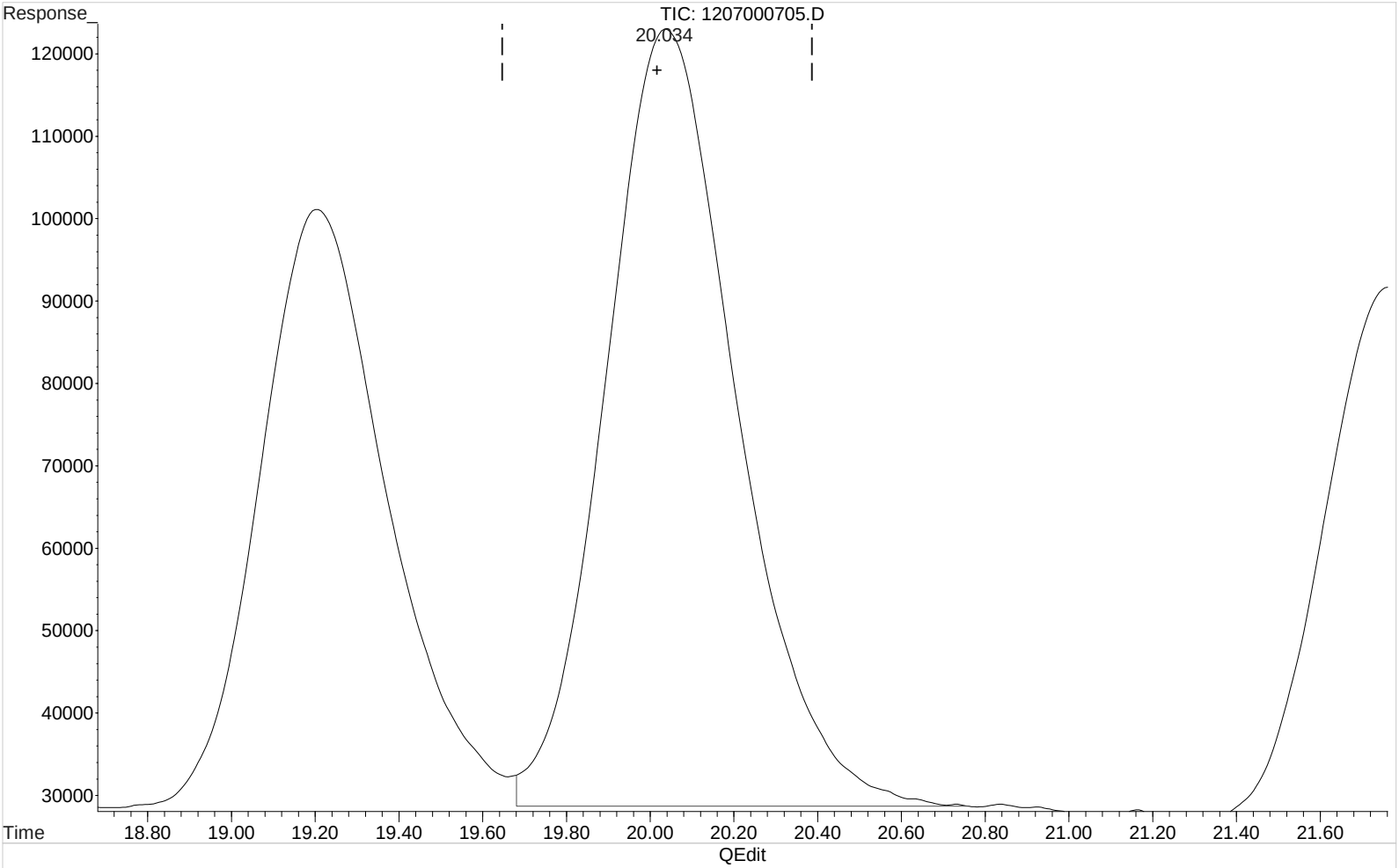
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(12) 2-Amino-4,6-DNT (T)

20.034min 43.047 ug/L

response 2047627

Manual Integration:

Before

12/08/16

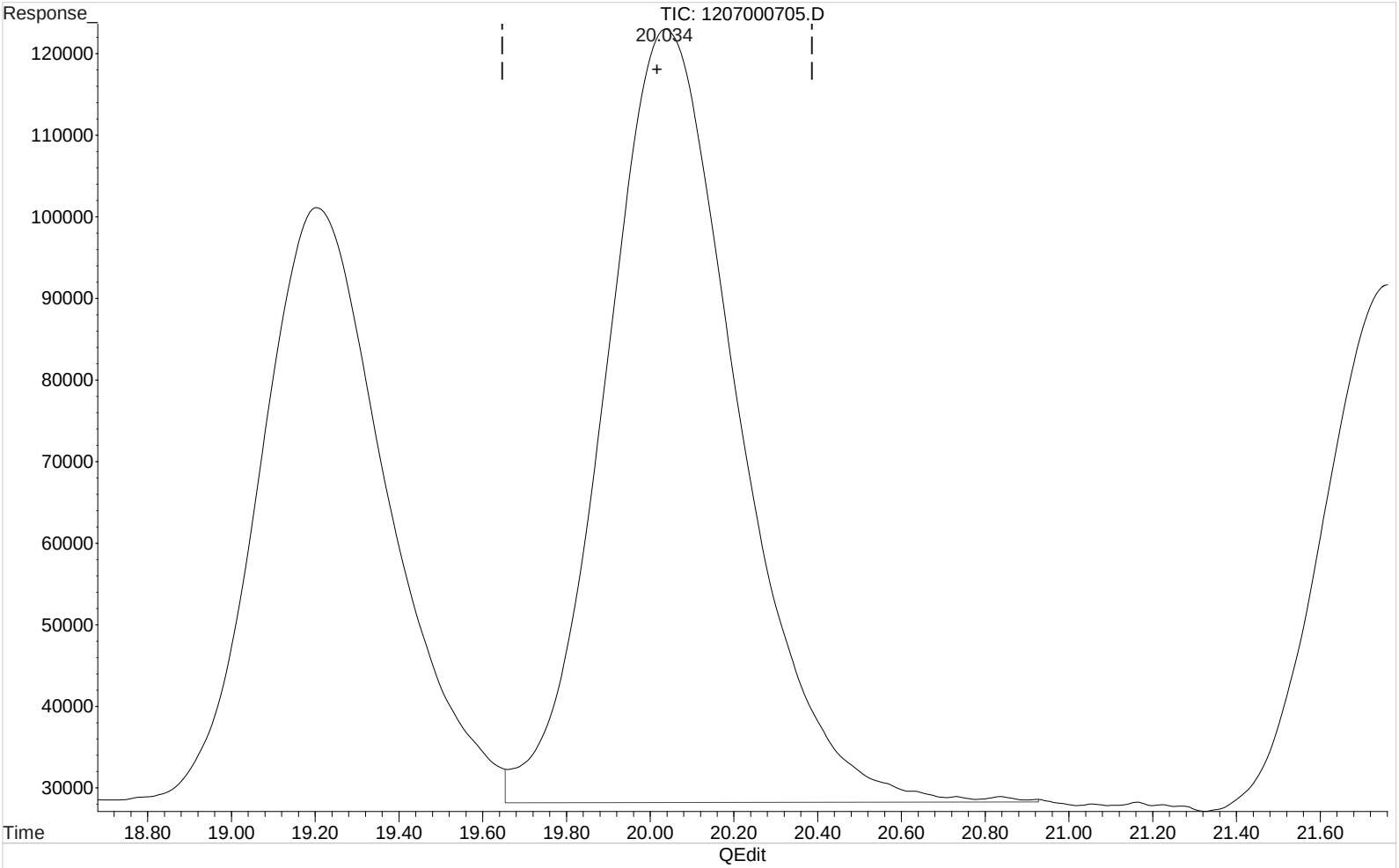
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(12) 2-Amino-4,6-DNT (T)

20.034min 43.890 ug/L m

response 2087710

Manual Integration:

Before

12/08/16

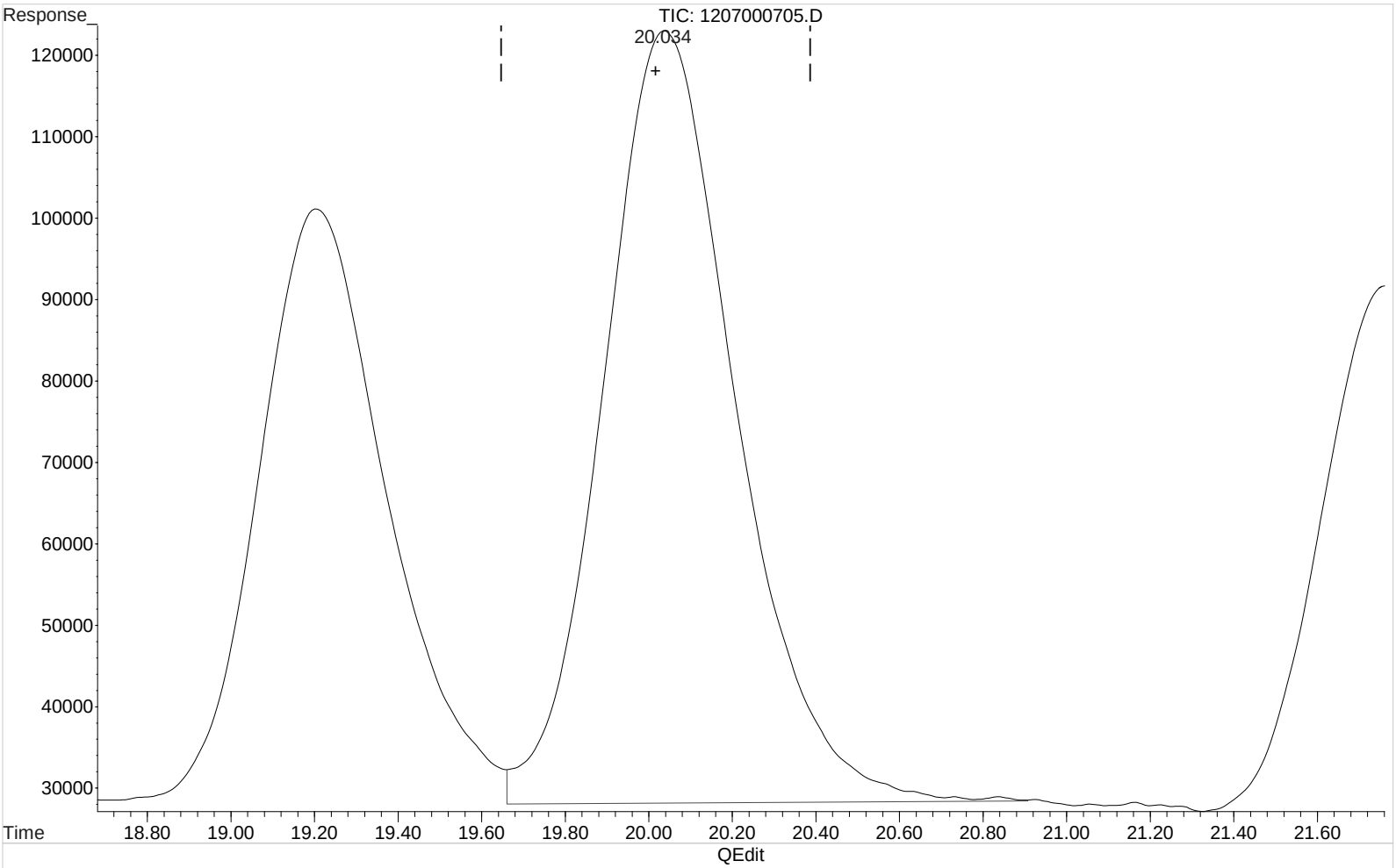
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(12) 2-Amino-4,6-DNT (T)

20.034min 43.852 ug/L m

response 2085917

Manual Integration:

After

BLC

12/08/16

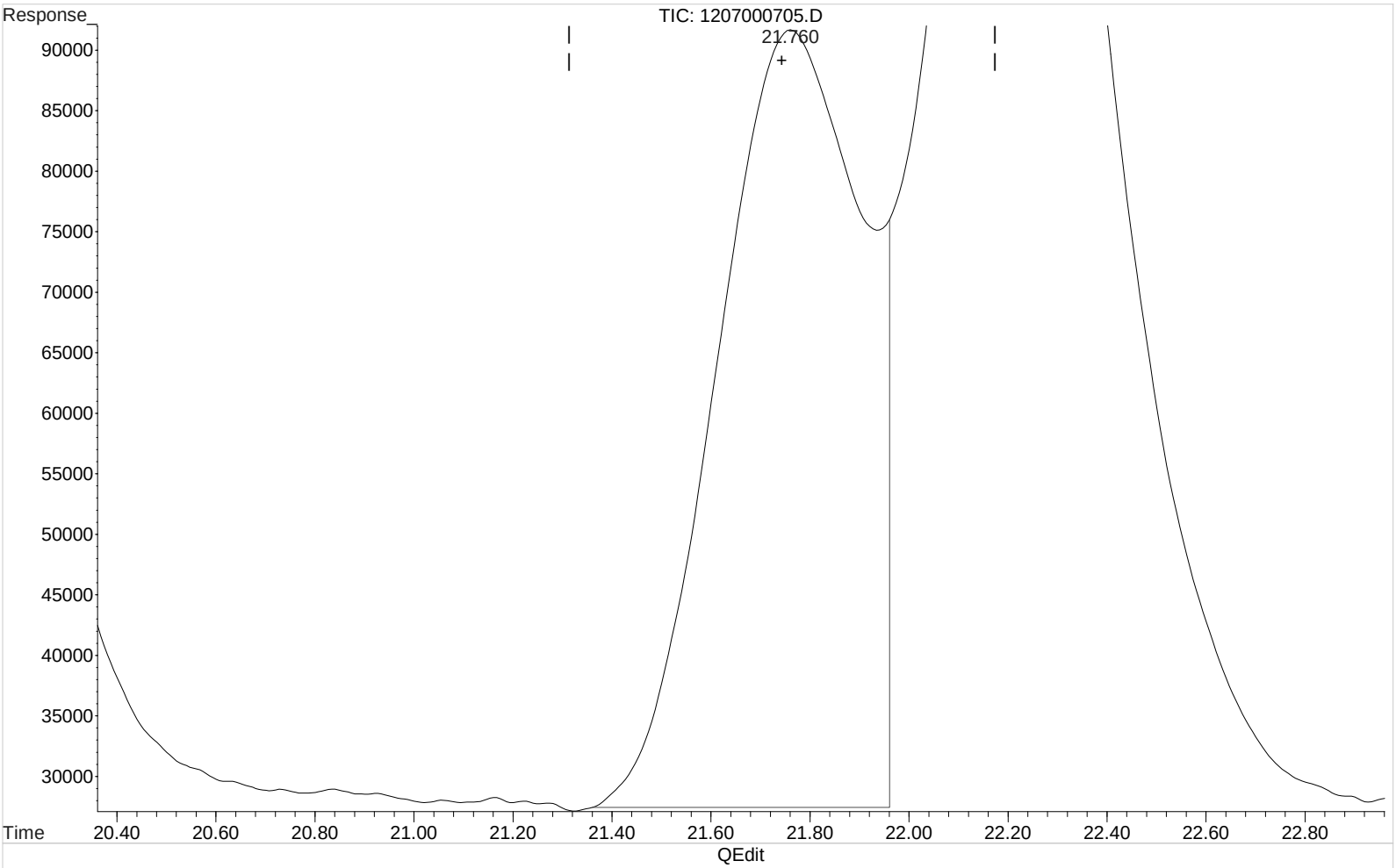
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.760min 0.000 ug/L

response 1327592

Manual Integration:

Before

12/08/16

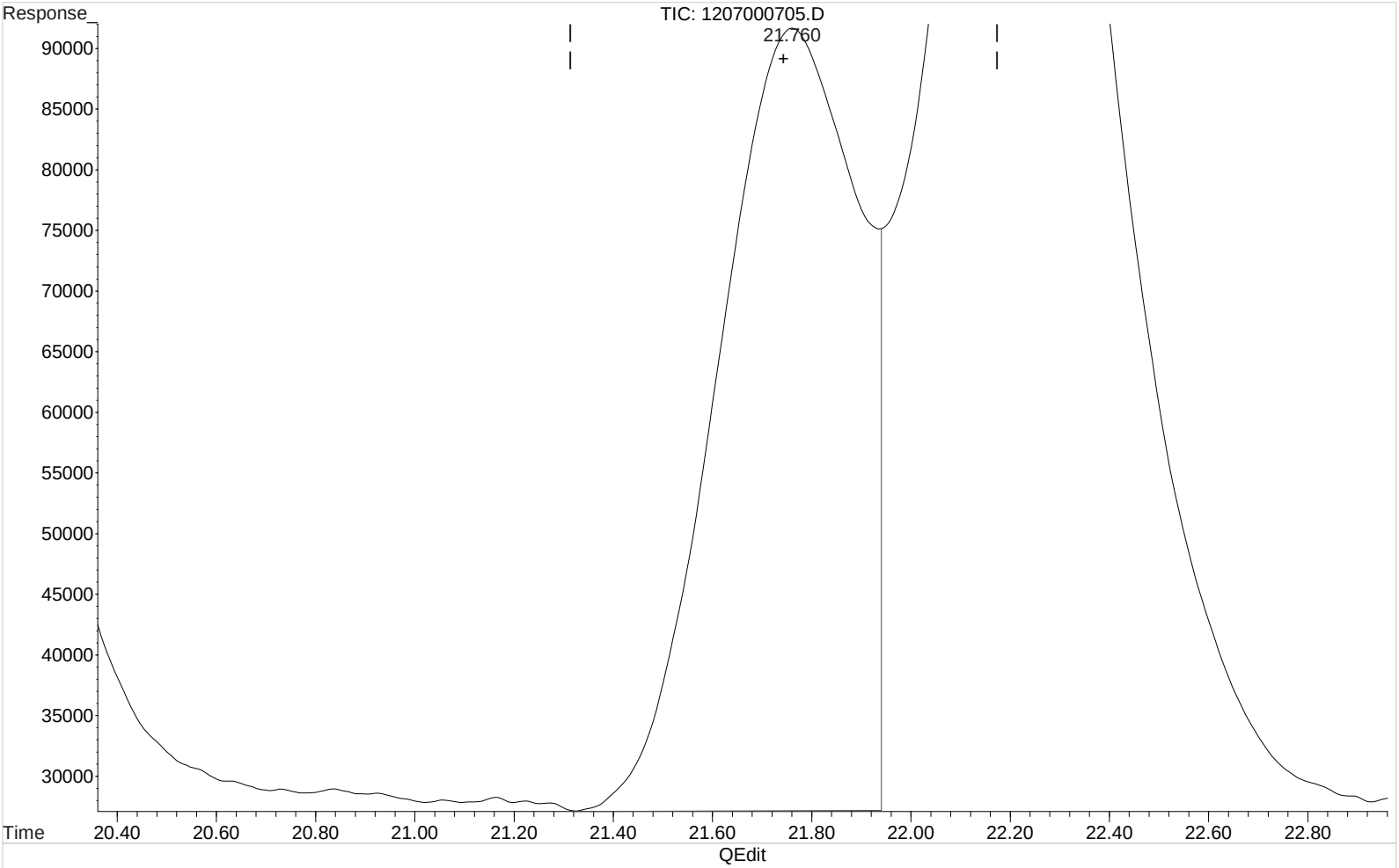
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.760min 0.000 ug/L m

response 1280625

Manual Integration:

After

BLC

12/08/16

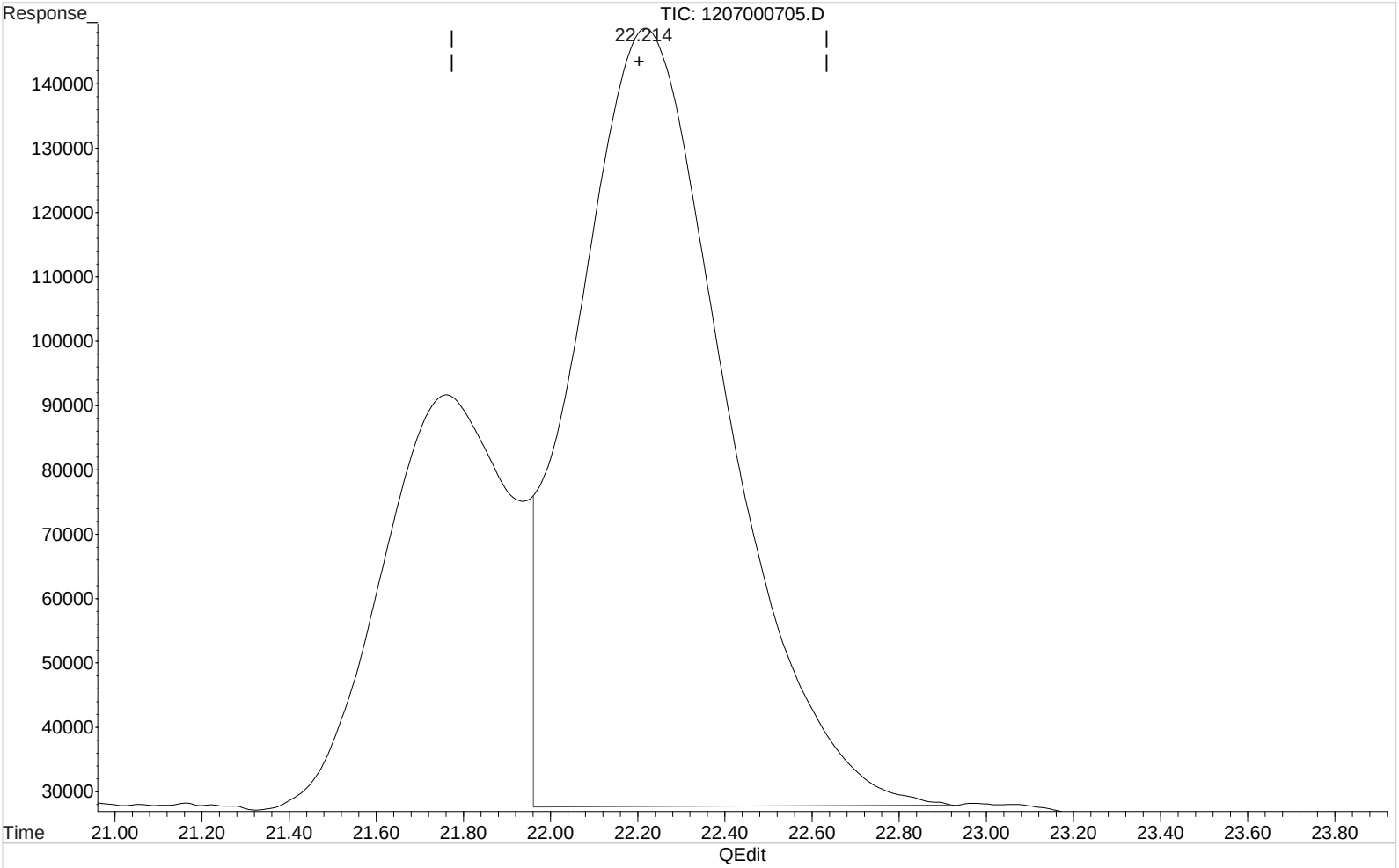
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.214min 50.242 ug/L

response 2892987

Manual Integration:

Before

12/08/16

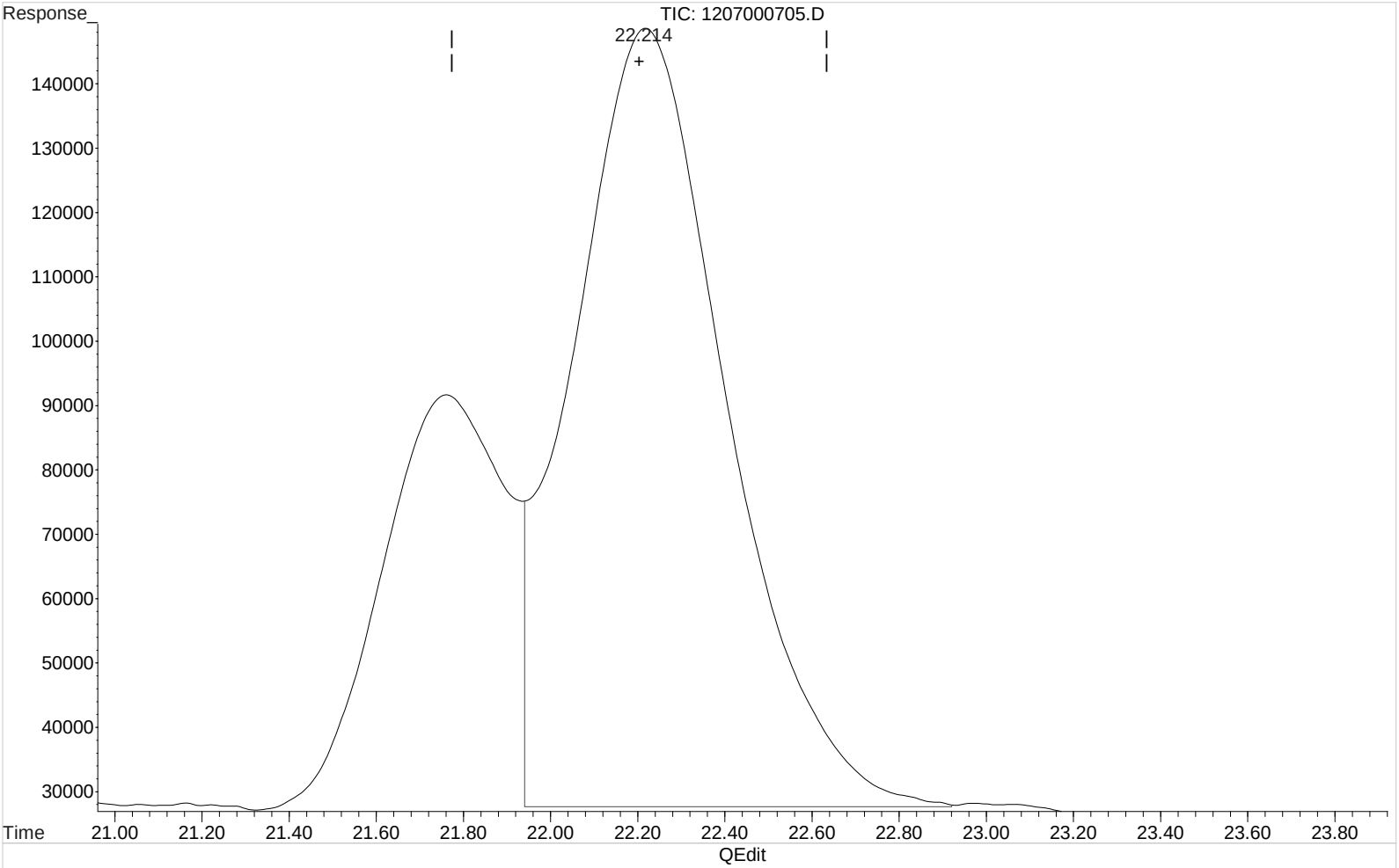
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.214min 51.322 ug/L m

response 2955148

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)

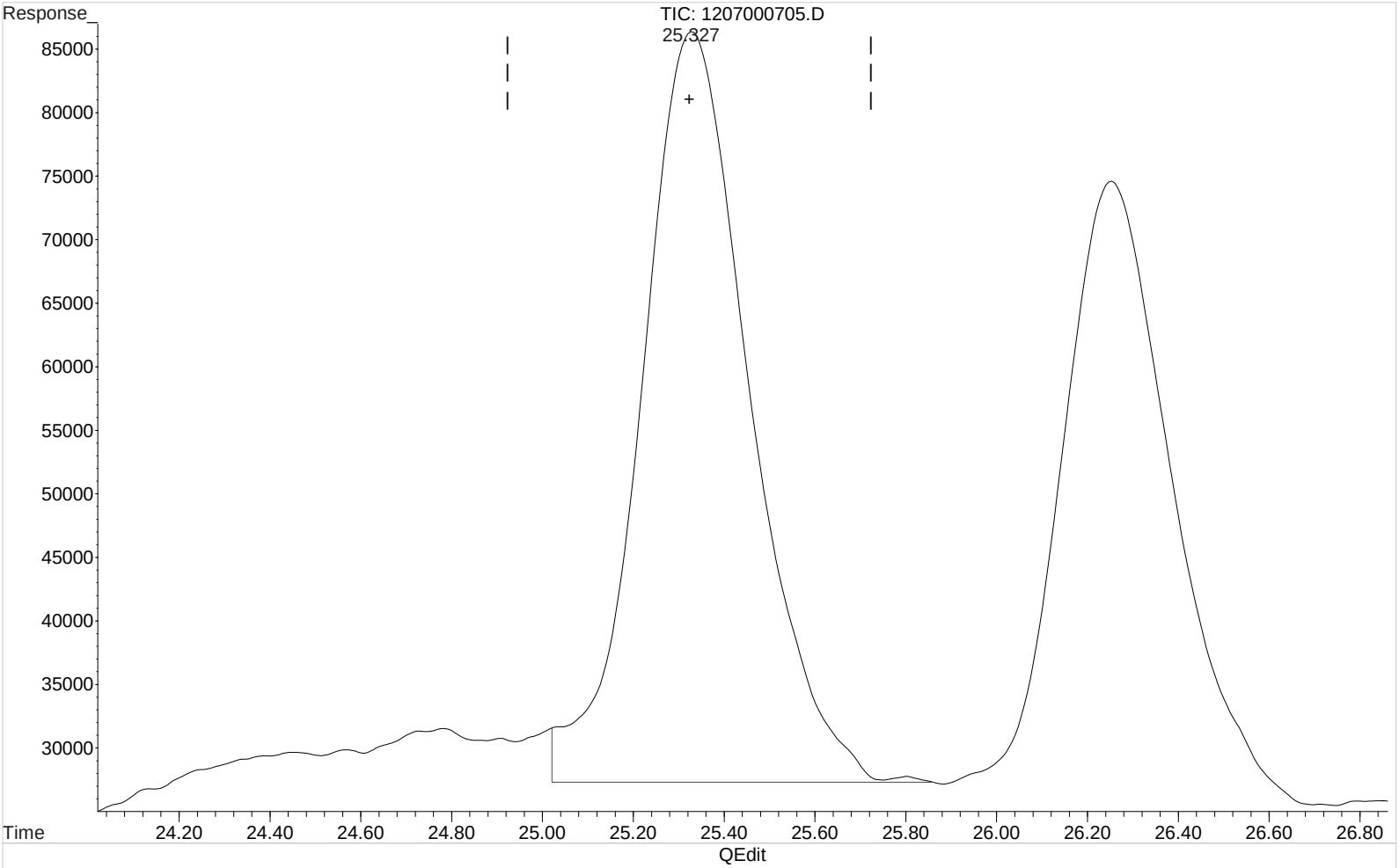
/08/16

/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.327min 56.083 ug/L

response 981052

Manual Integration:

Before

12/08/16

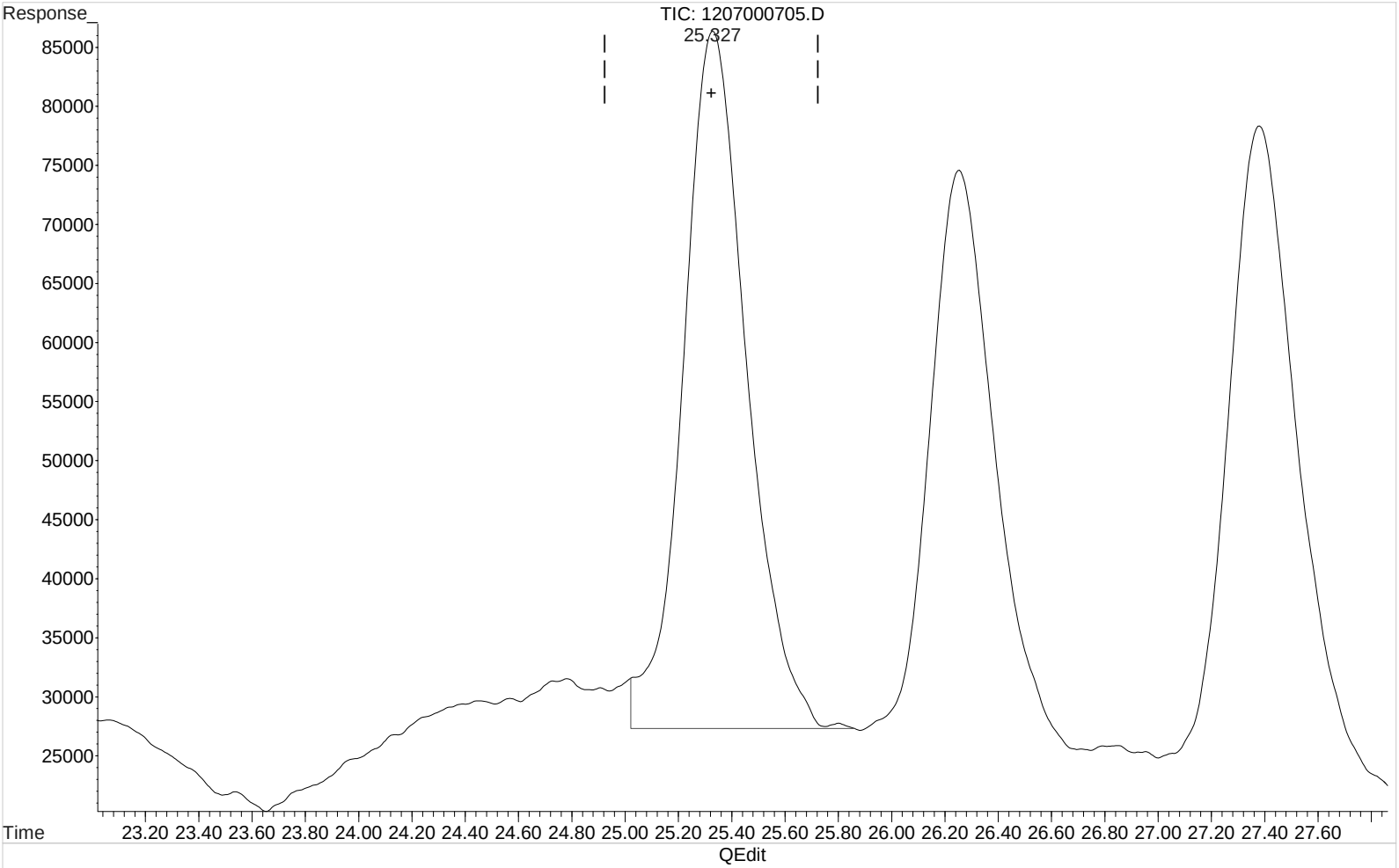
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.327min 56.083 ug/L

response 981052

Manual Integration:

Before

12/08/16

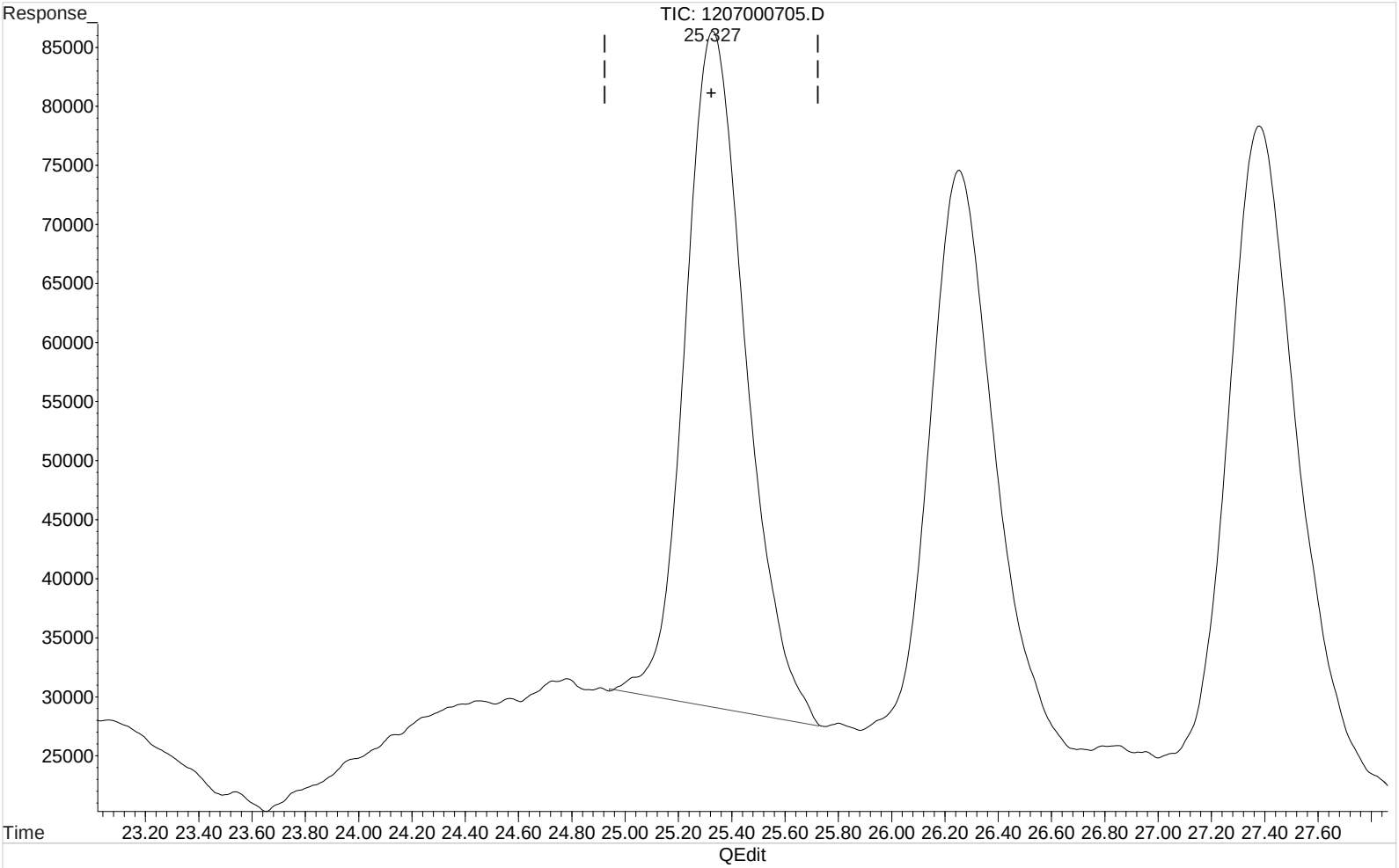
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(15) 2-NT (T)

25.327min 52.158 ug/L m

response 912402

Manual Integration:

After

BLC

12/08/16

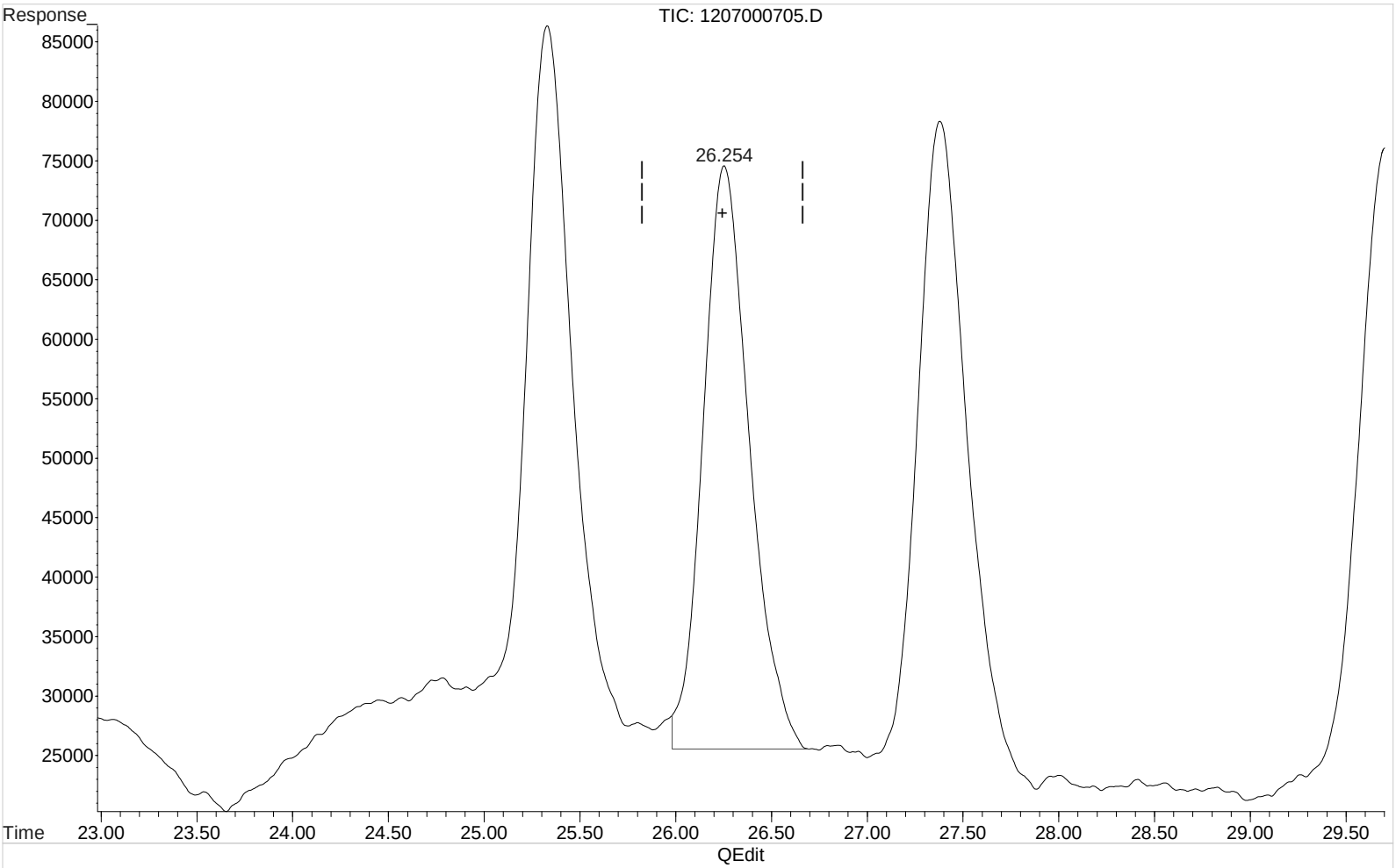
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.254min 51.817 ug/L

response 828954

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

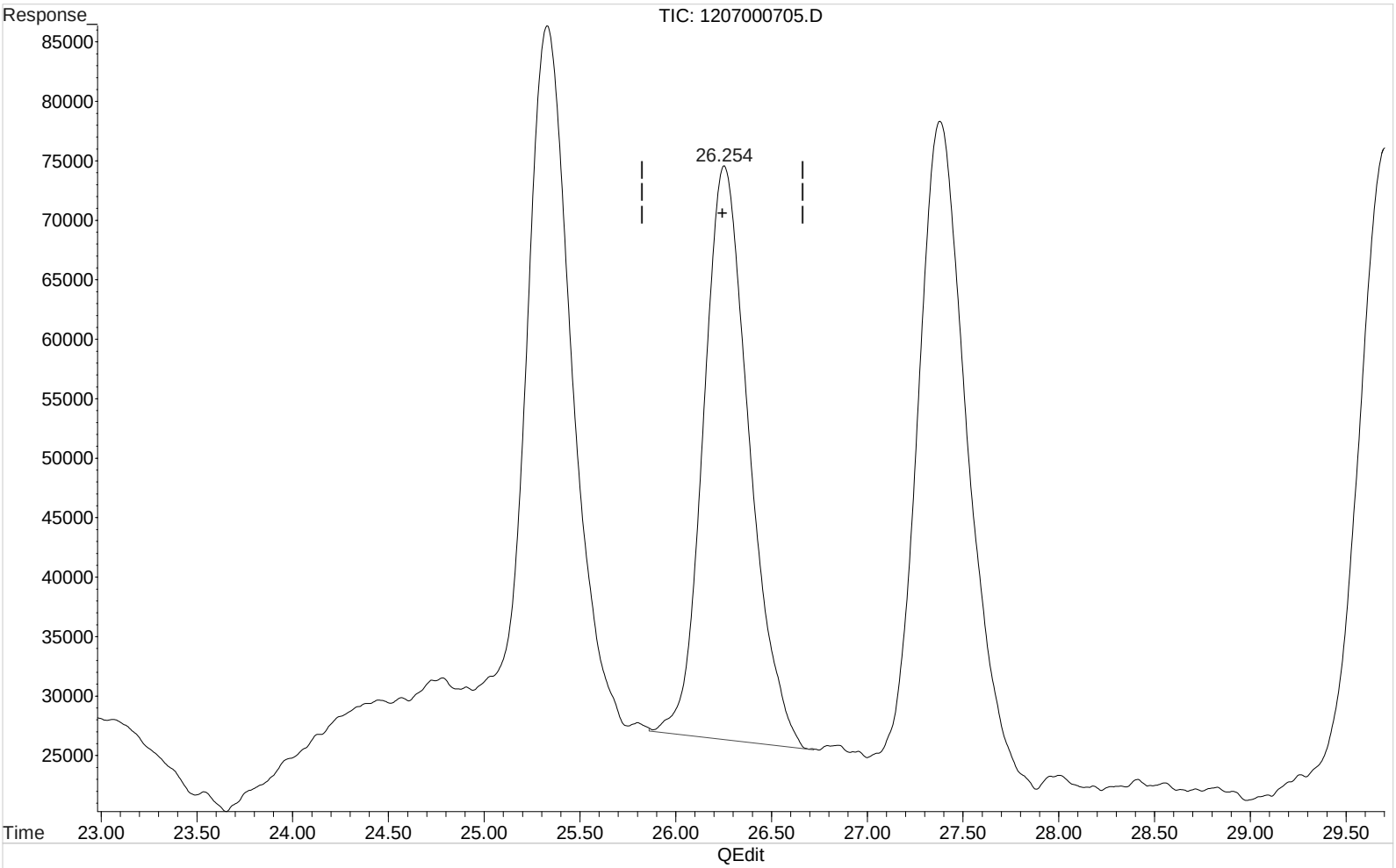
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.254min 50.422 ug/L m

response 806643

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)

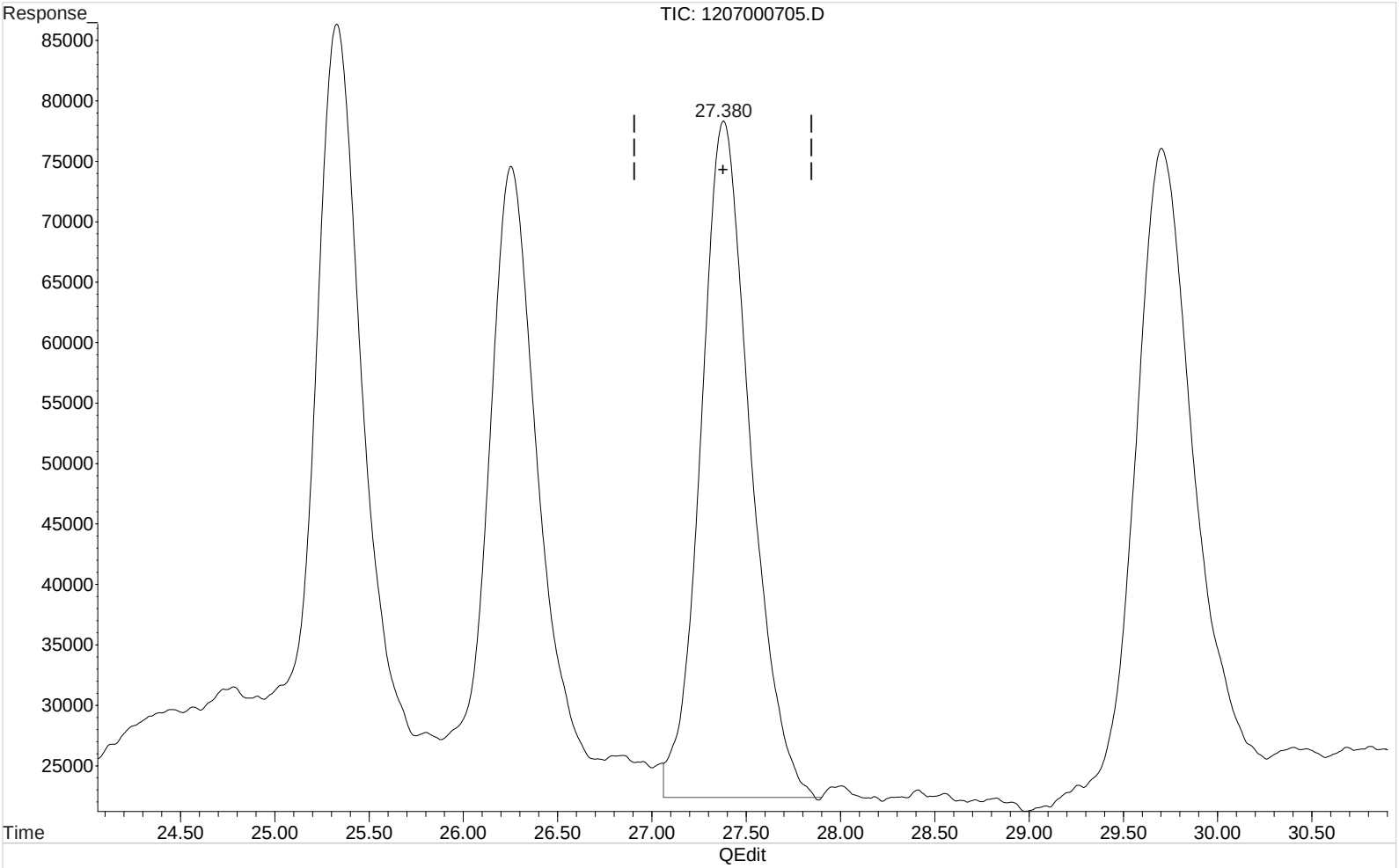
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.380min 50.117 ug/L

response 1030312

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

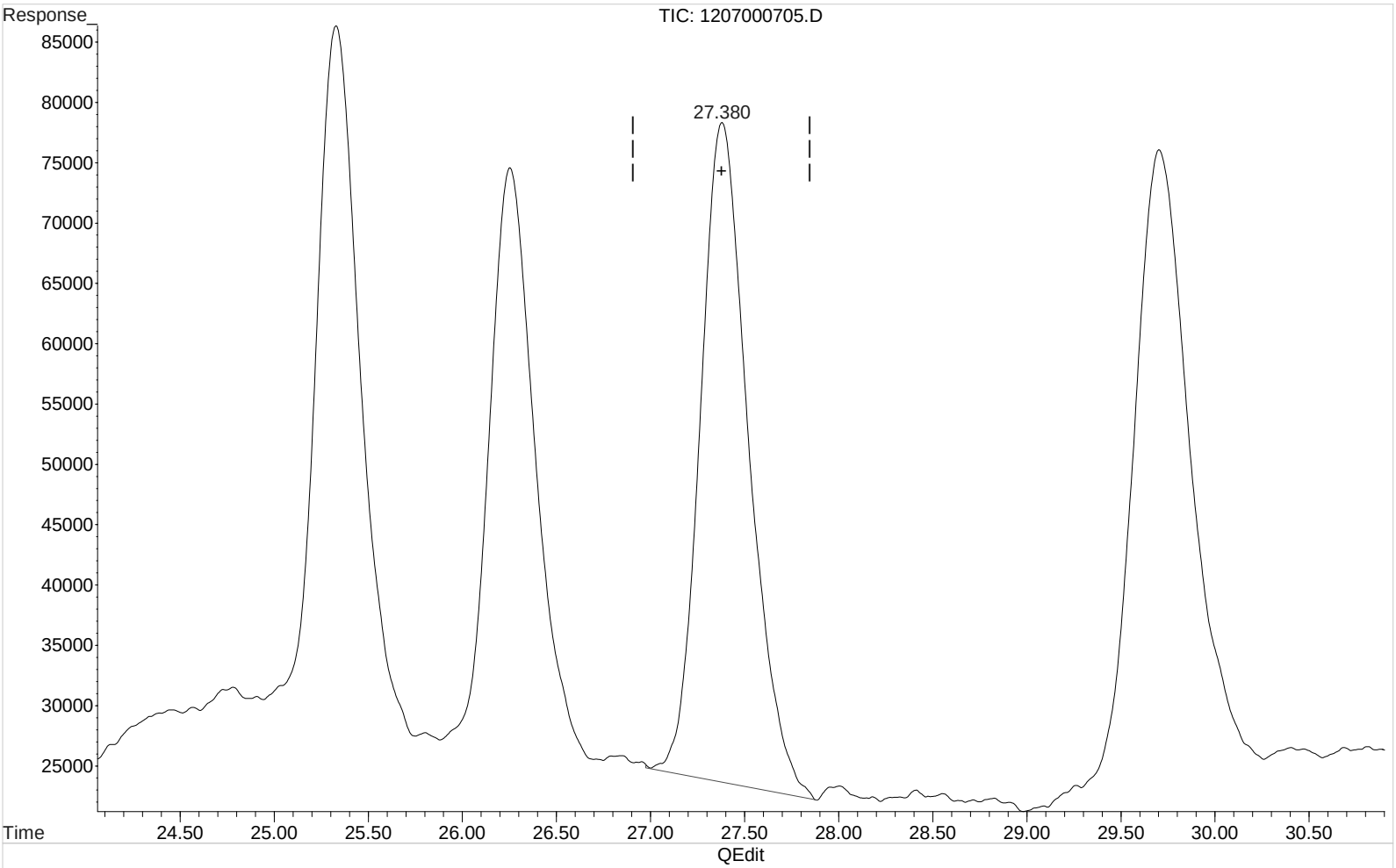
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.380min 47.770 ug/L m

response 982059

Manual Integration:

After

BLC

12/08/16

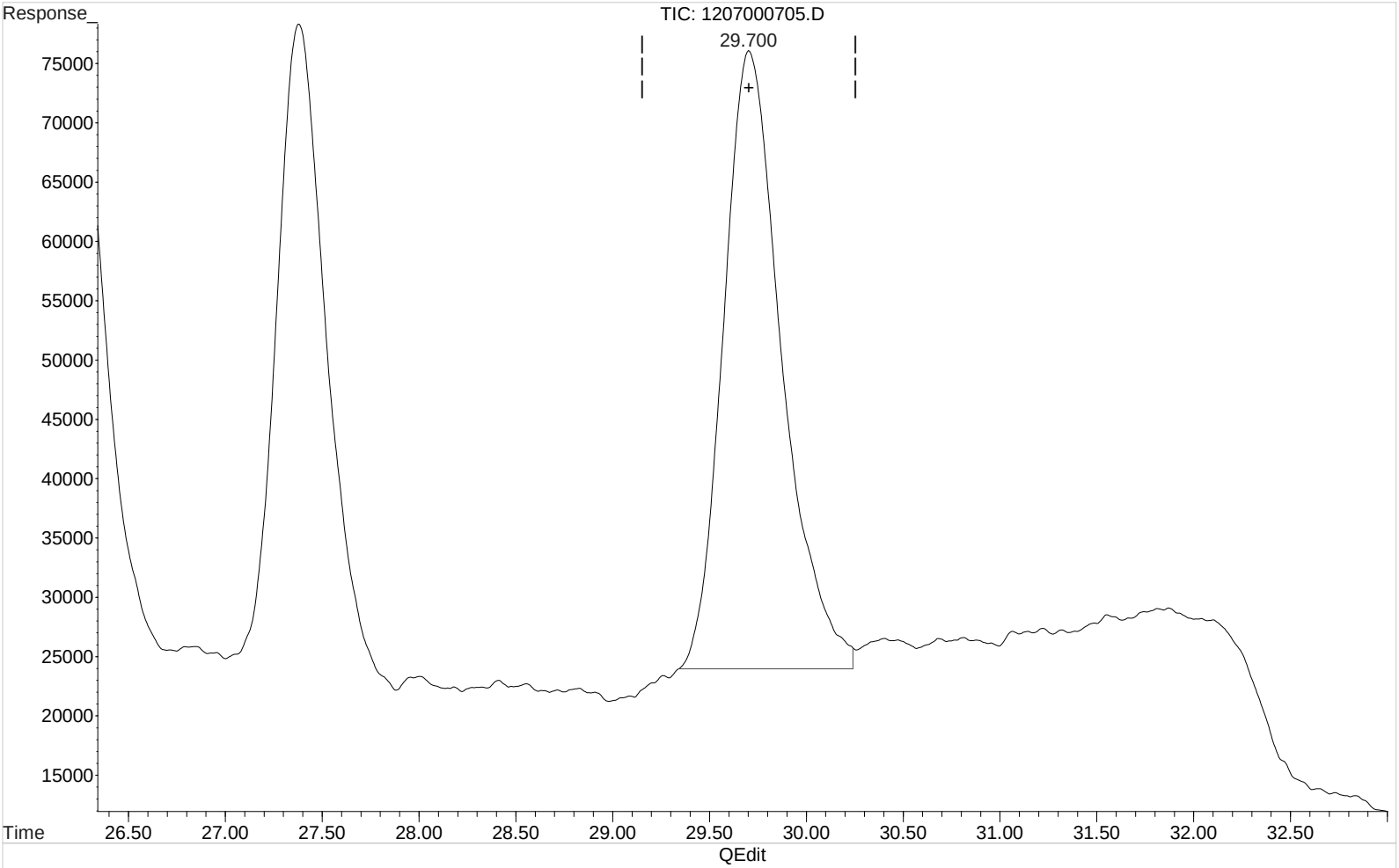
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(18) 1-Chloro-3-Nitrobenzene (S)

29.700min 47.408 ug/L

response 1093549

Manual Integration:

Before

12/08/16

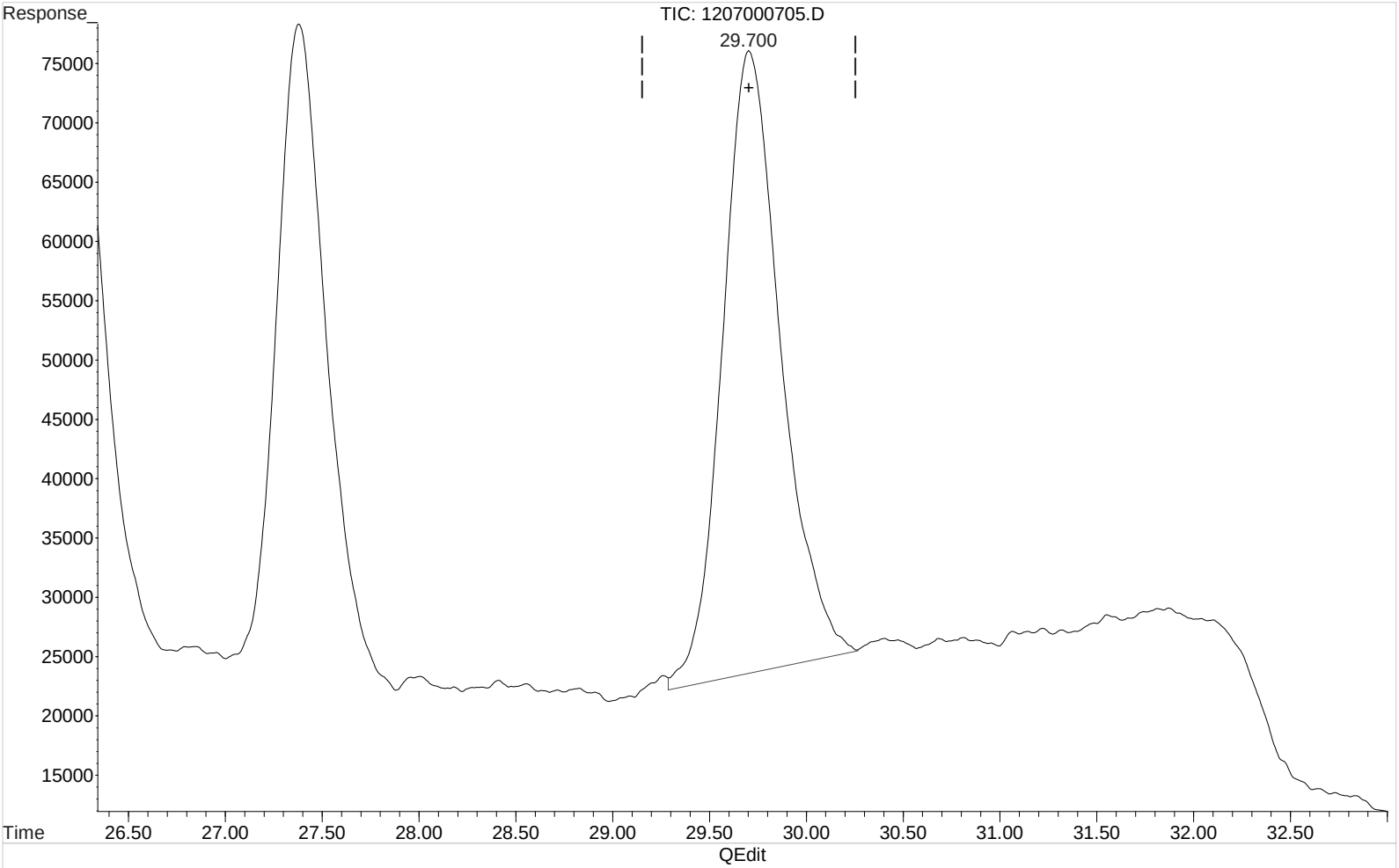
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(18) 1-Chloro-3-Nitrobenzene (S)

29.700min 47.809 ug/L m

response 1102787

Manual Integration:

After

BLC

12/08/16

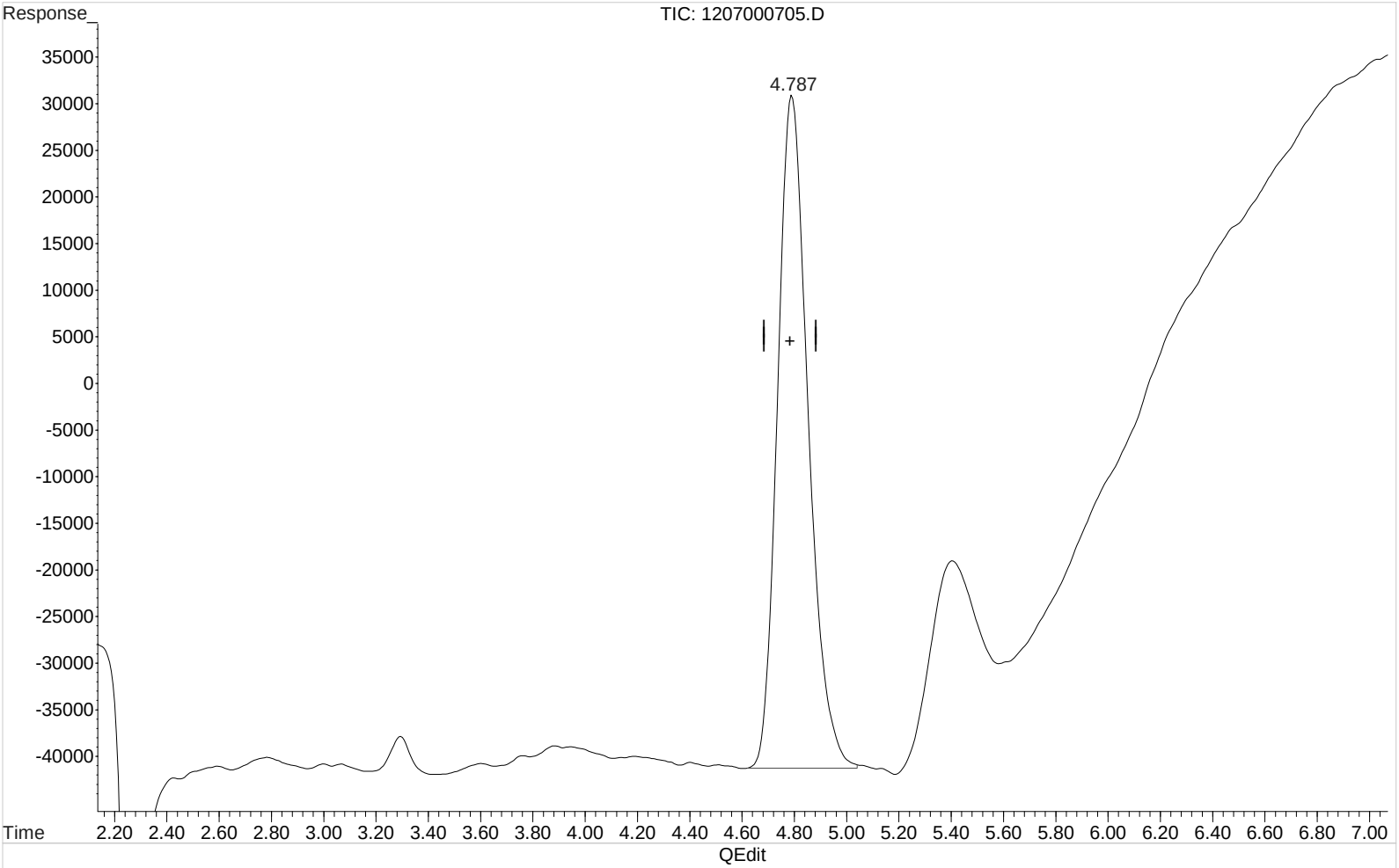
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(2) HMX (T)

4.787min 50.576 ug/L

response 588444

Manual Integration:

Before

12/08/16

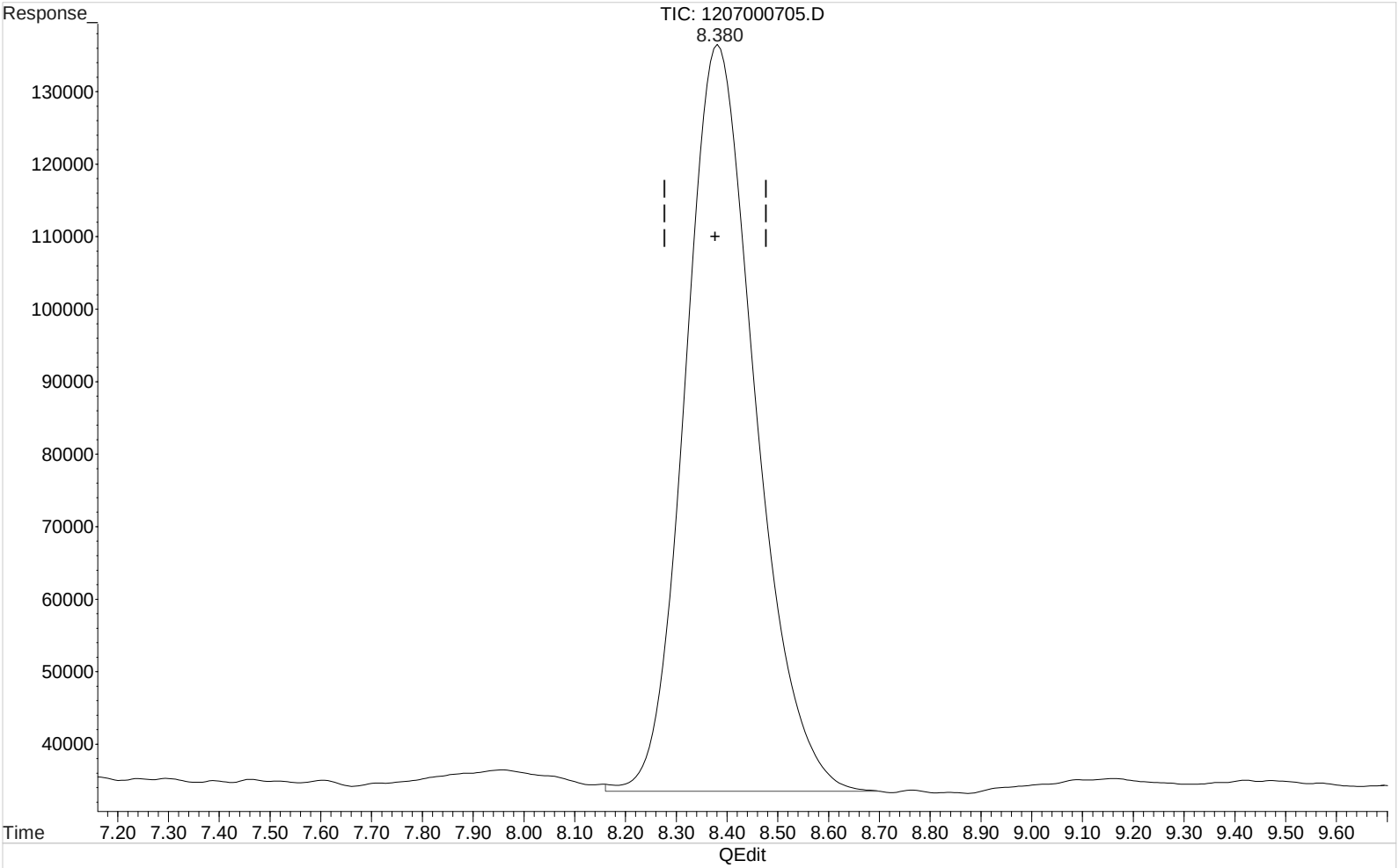
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(4) RDX (T)

8.380min 47.162 ug/L

response 991175

Manual Integration:

Before

12/08/16

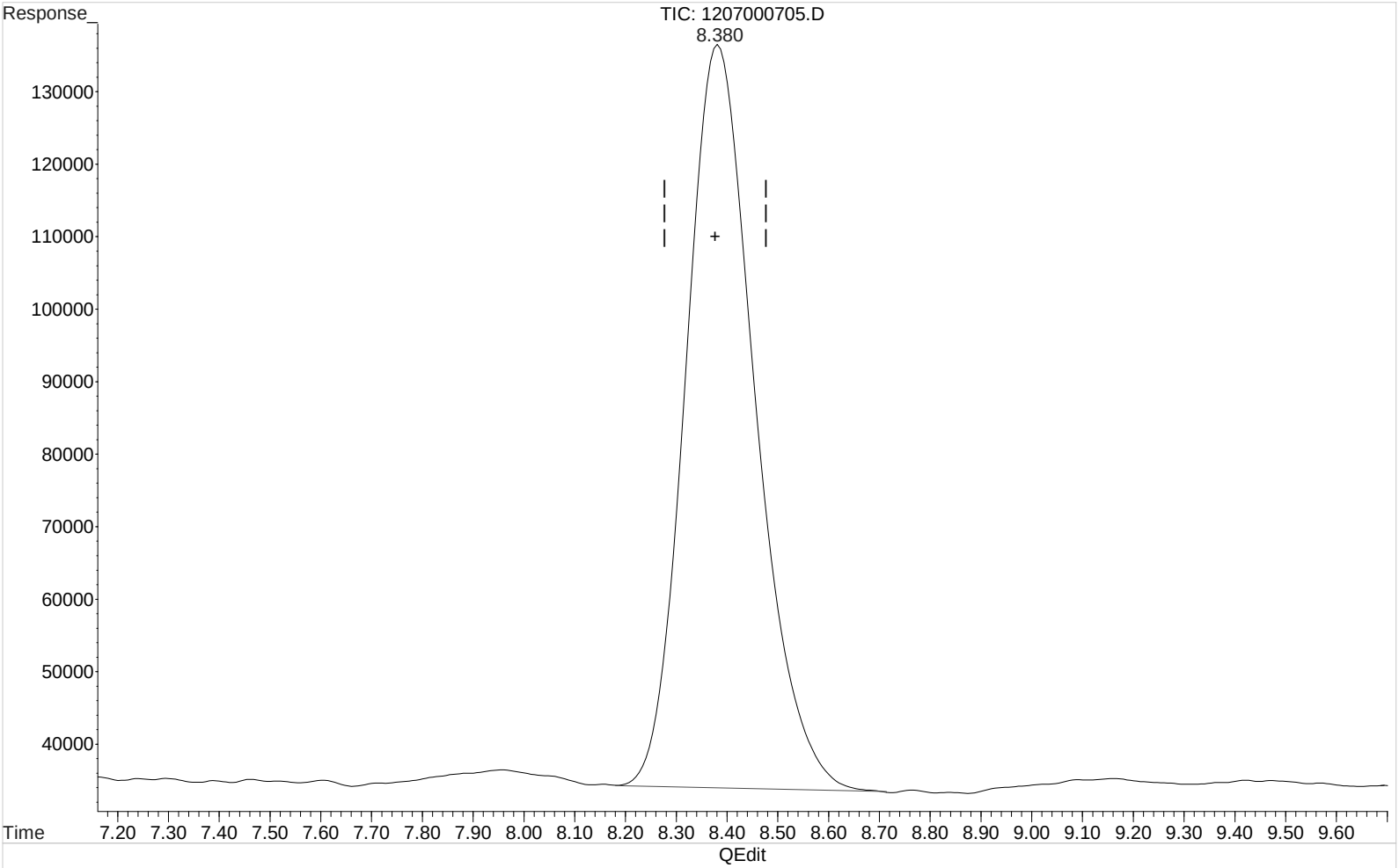
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(4) RDX (T)

8.380min 46.580 ug/L m

response 978940

Manual Integration:

After

BLC

12/08/16

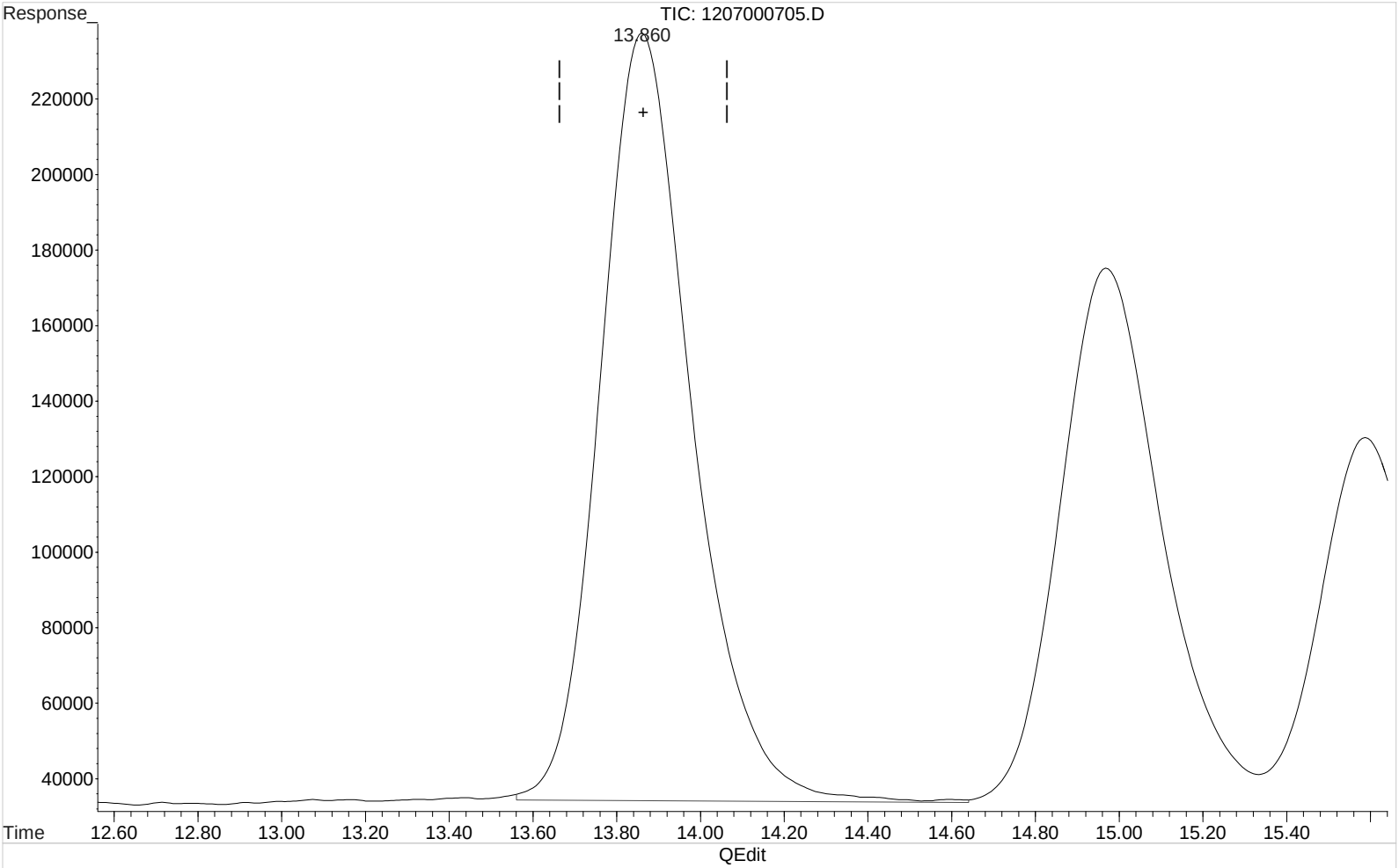
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(6) 1,3-DNB (T)

13.860min 49.138 ug/L

response 3091980

Manual Integration:

Before

12/08/16

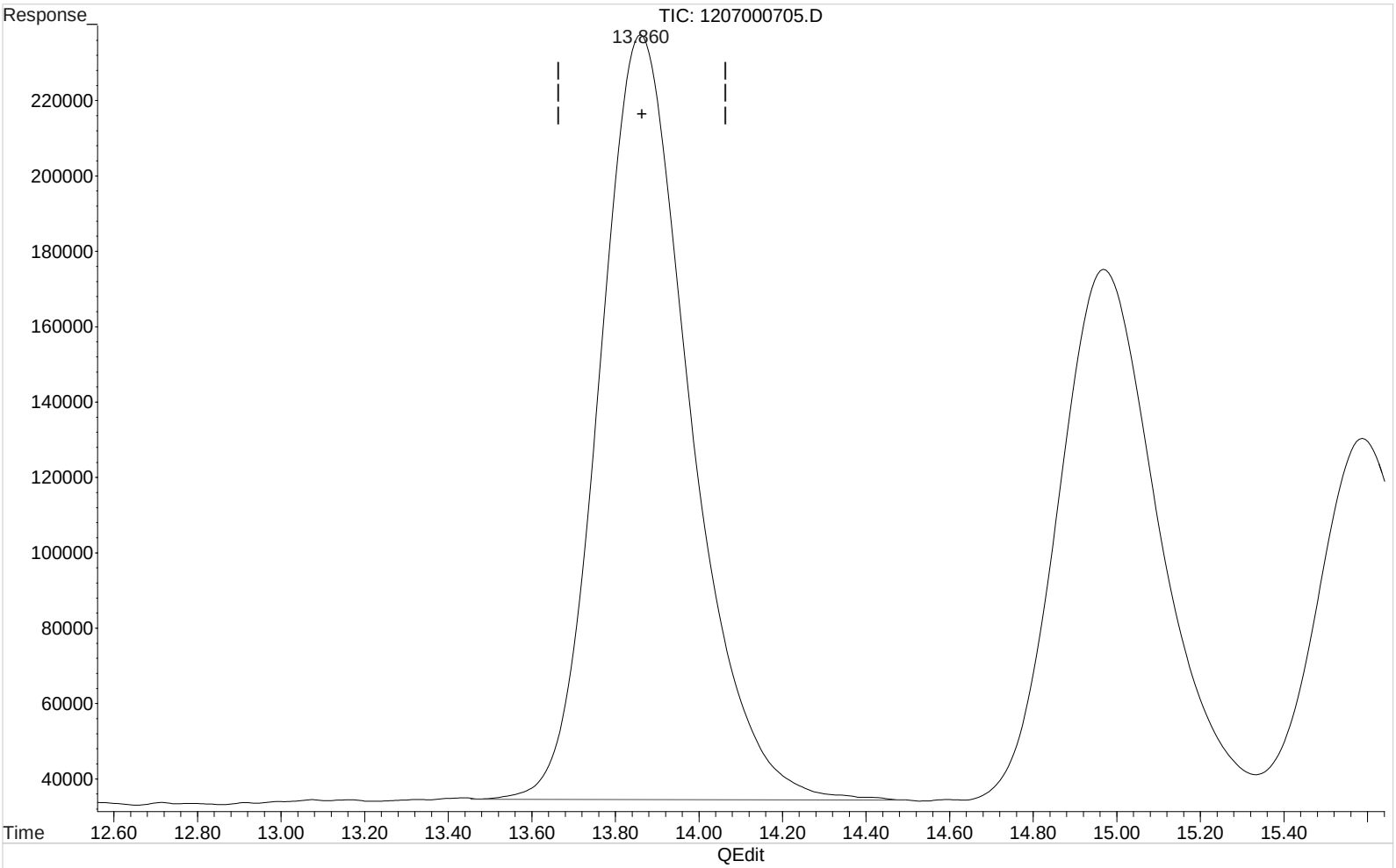
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(6) 1,3-DNB (T)

13.860min 48.773 ug/L m

response 3069012

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)

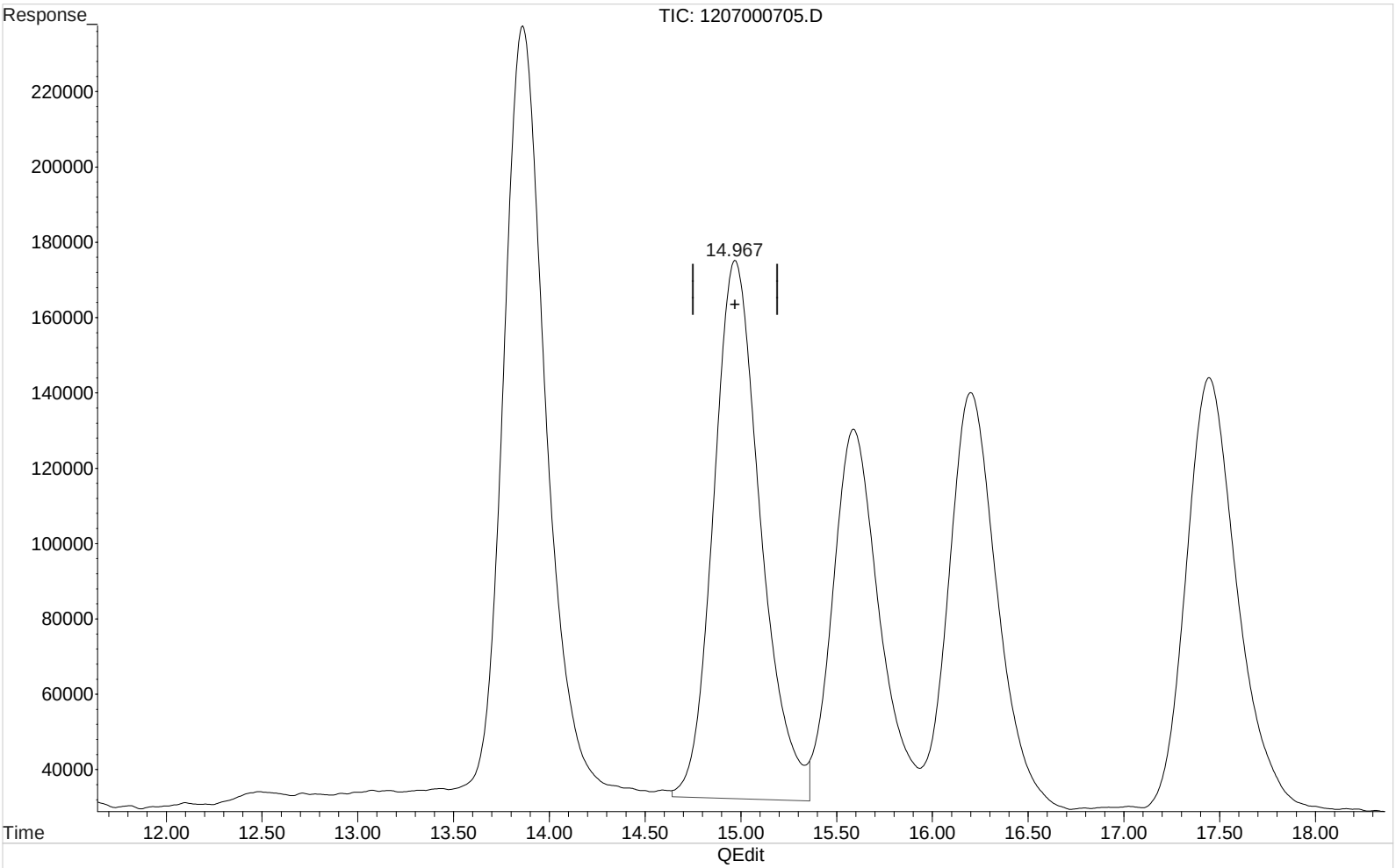
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(7) 3,5-Dinitroaniline (T)

14.967min 50.232 ug/L

response 2450718

Manual Integration:

Before

12/08/16

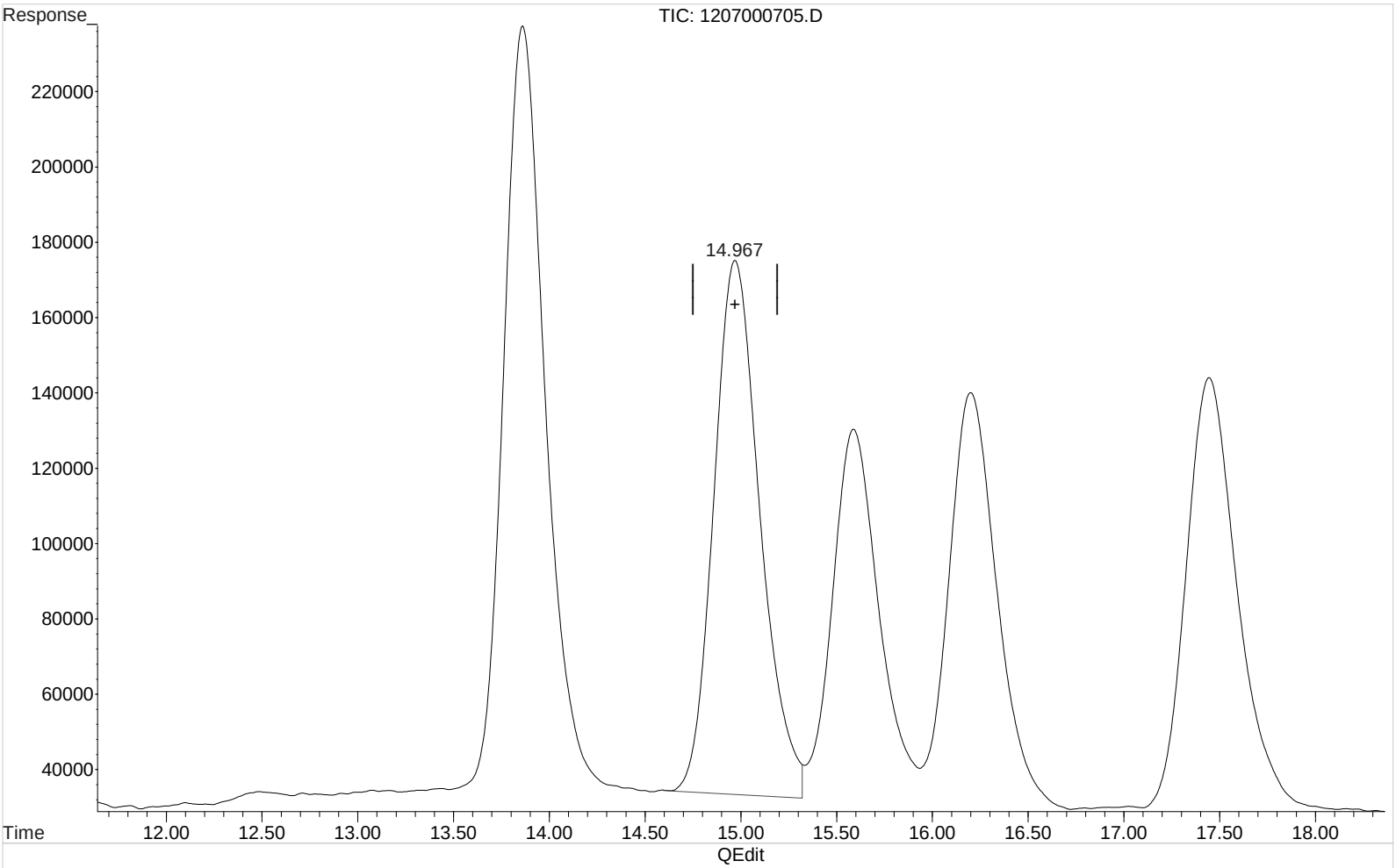
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.967min 48.826 ug/L m

response 2382128

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b)(6)

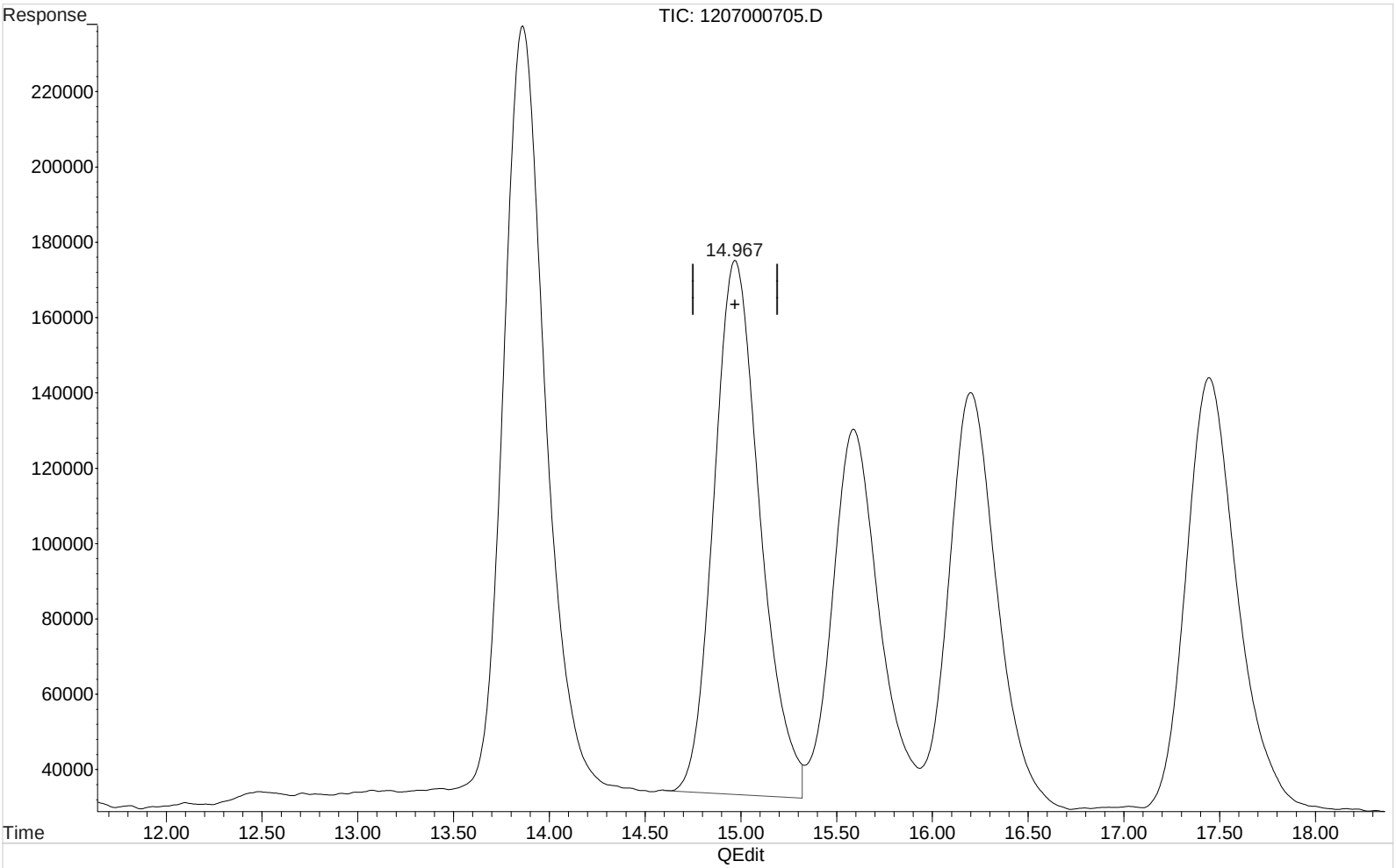
1st 12/08/16

2n 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(7) 3,5-Dinitroaniline (T)

14.967min 48.826 ug/L m

response 2382128

Manual Integration:

After

NO BEFORE, ACCIDENTAL INT

12/08/16

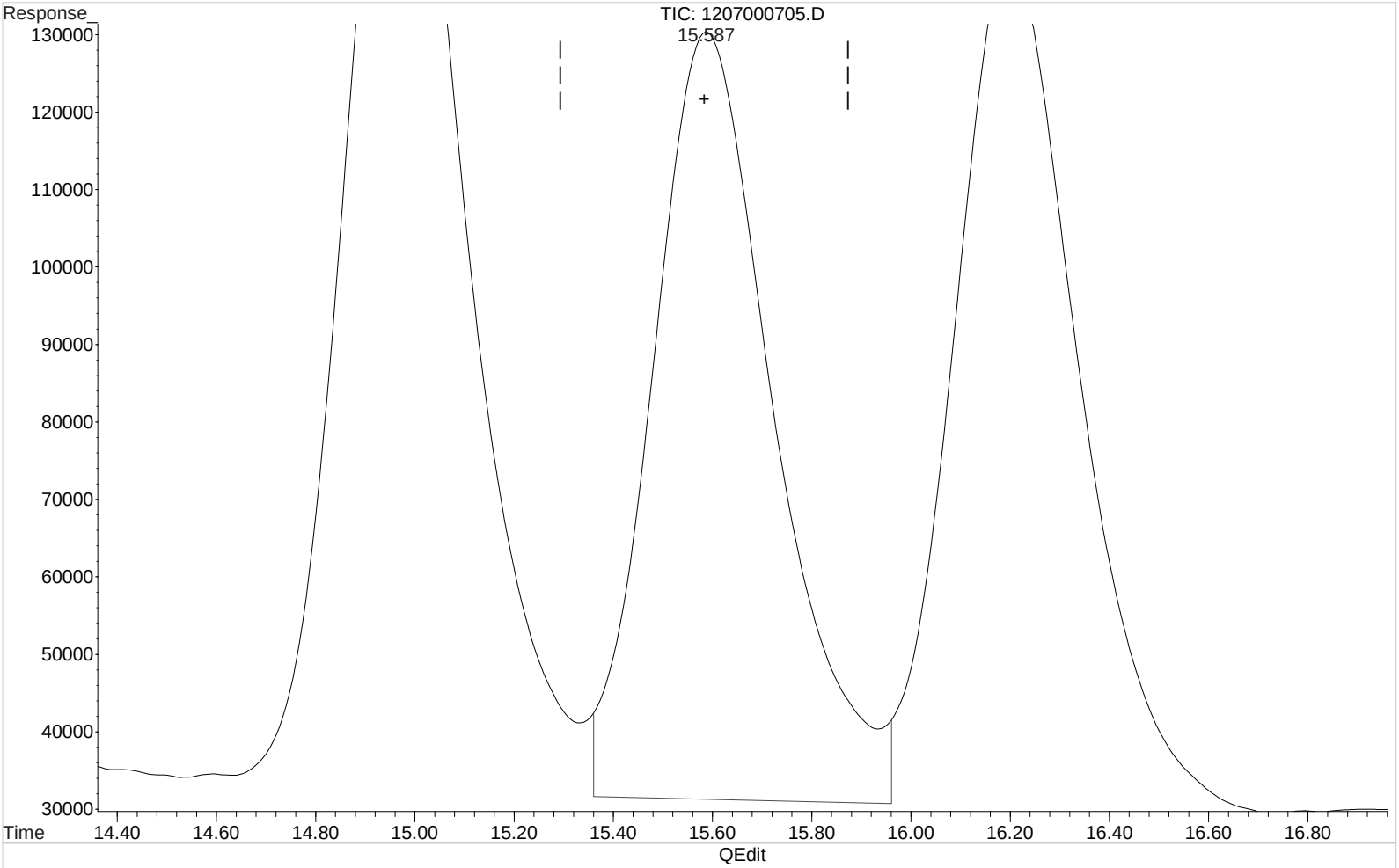
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.587min 49.926 ug/L

response 1682029

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

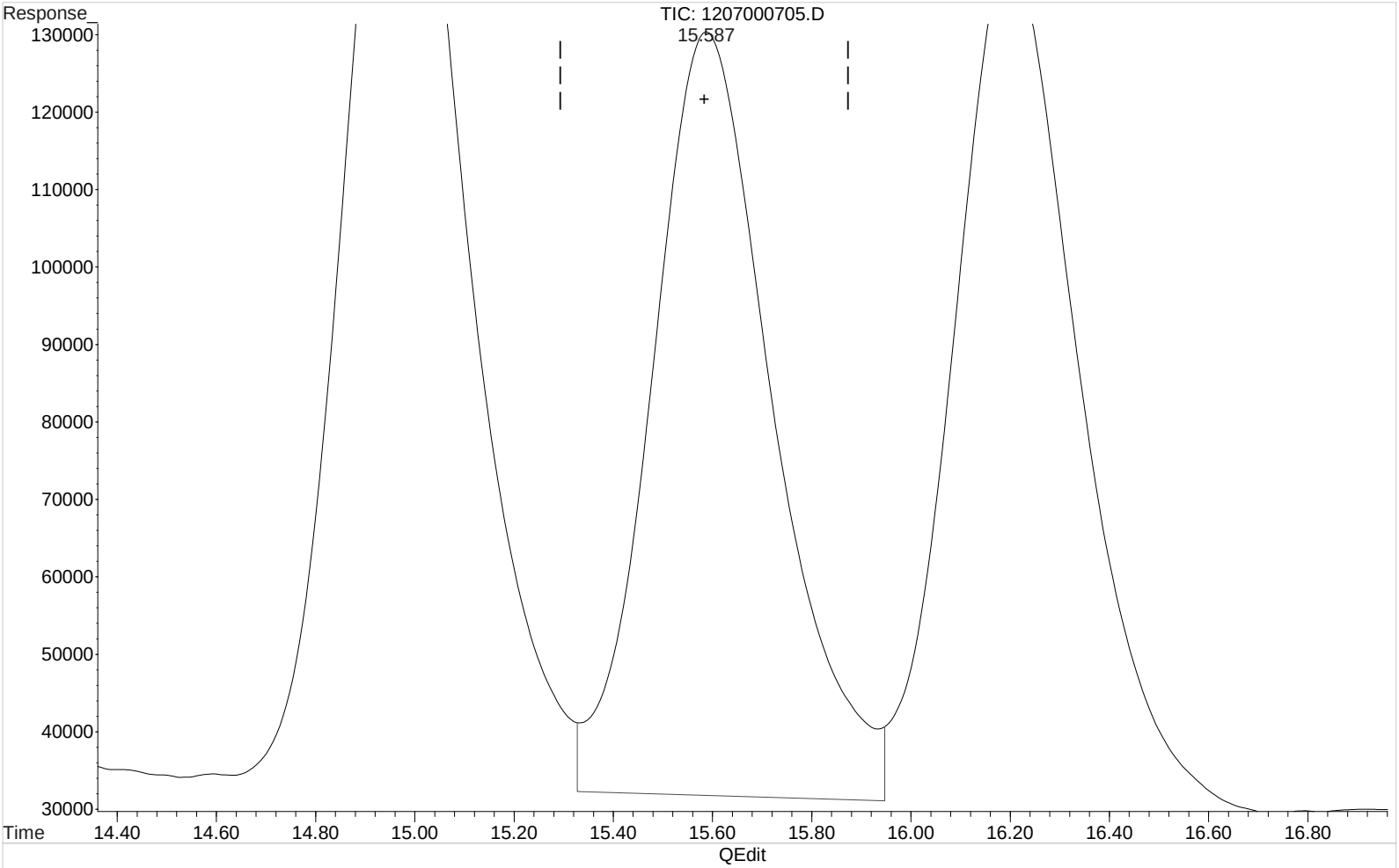
Quantitation Report (Qedit)

1st (b) (6) 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.587min 49.760 ug/L m

response 1676426

Manual Integration:

After

BLC

12/08/16

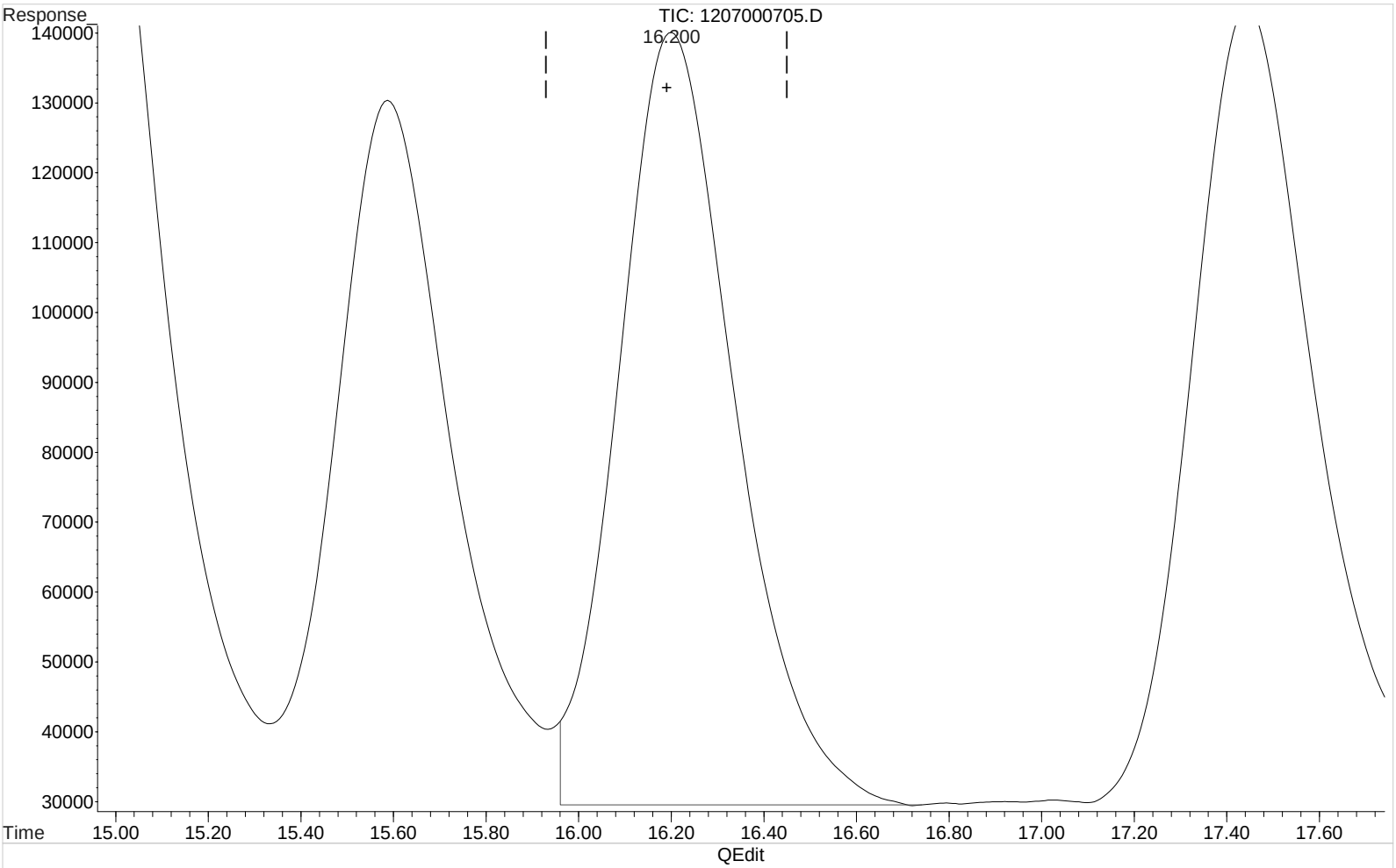
(+) = Expected Retention Time

(b) (6)
1st [redacted] 12/08/16
2n [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.200min 48.909 ug/L

response 1926694

Manual Integration:

Before

12/08/16

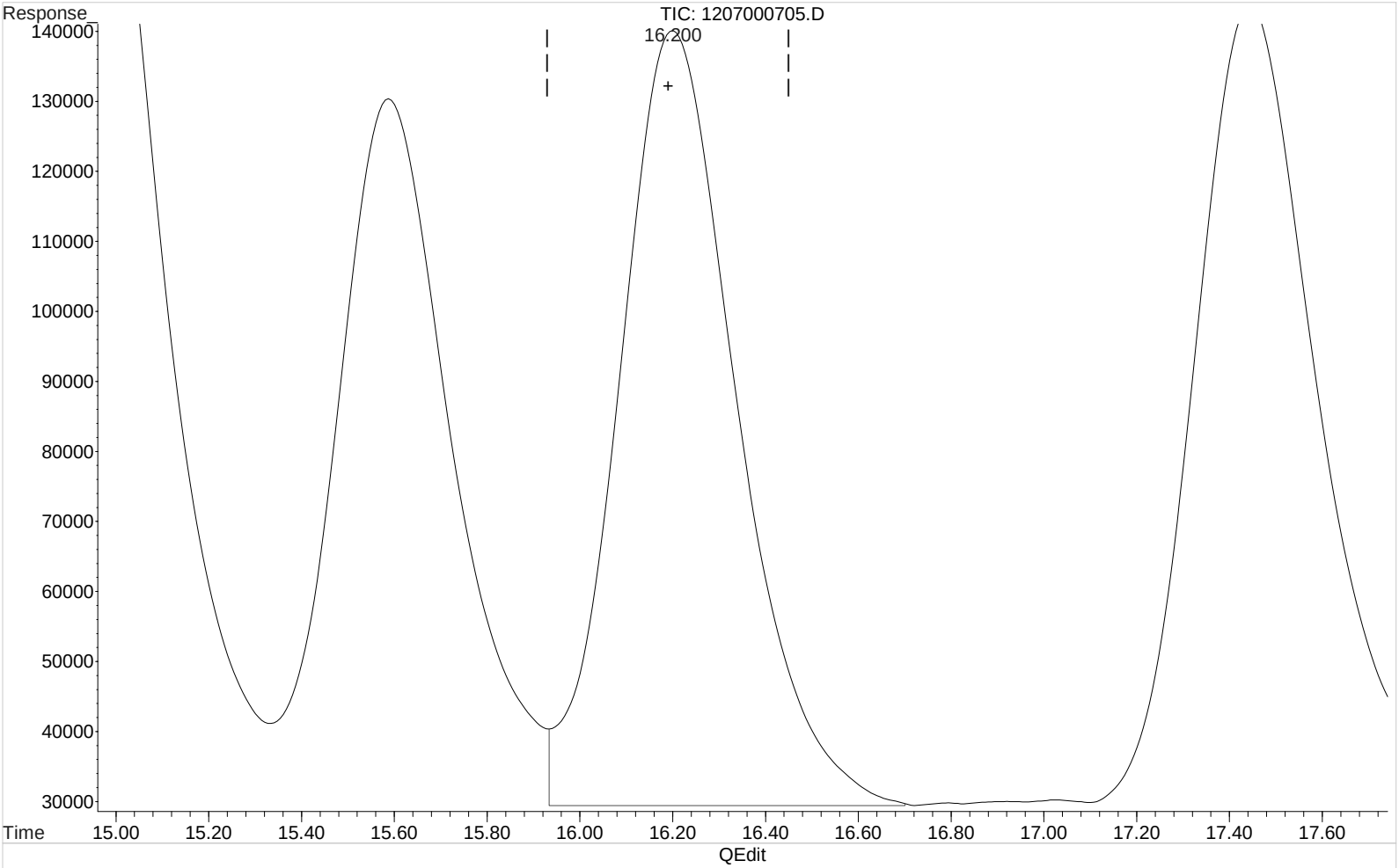
(+) = Expected Retention Time

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.200min 49.519 ug/L m

response 1950750

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:06:56 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
18) S	1-Chloro-3-Nitrobenzene	29.688	2222660	98.517	ug/L	m
	Target Compounds					
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2) T	HMX	4.788	1216166	103.579	ug/L	
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4) T	RDX	8.381	1985238	97.807	ug/L	m
5) T	1,3,5-TNB	10.521	4433120	97.549	ug/L	m
6) T	1,3-DNB	13.861	5956080	95.830	ug/L	
7) T	3,5-Dinitroaniline	14.975	4770181	98.935	ug/L	m
8) T	Tetryl	15.588	3353341	99.774	ug/L	m
9) T	Nitrobenzene	16.201	3828698	97.660	ug/L	m
10) T	2,4,6-TNT	17.441	4139905	101.107	ug/L	
11) T	4-Amino-2,6-DNT	19.215	2969829	103.131	ug/L	m
12) T	2-Amino-4,6-DNT	20.048	4166626	93.333	ug/L	
13) T	2,6-DNT	21.748	2380424	NoCal	ug/L	m
14) T	2,4-DNT	22.201	5893843	101.023	ug/L	m
15) T	2-NT	25.321	1803120	100.899	ug/L	
16) T	4-NT	26.241	1643208	102.283	ug/L	m
17) T	3-NT	27.361	2049432	101.964	ug/L	m

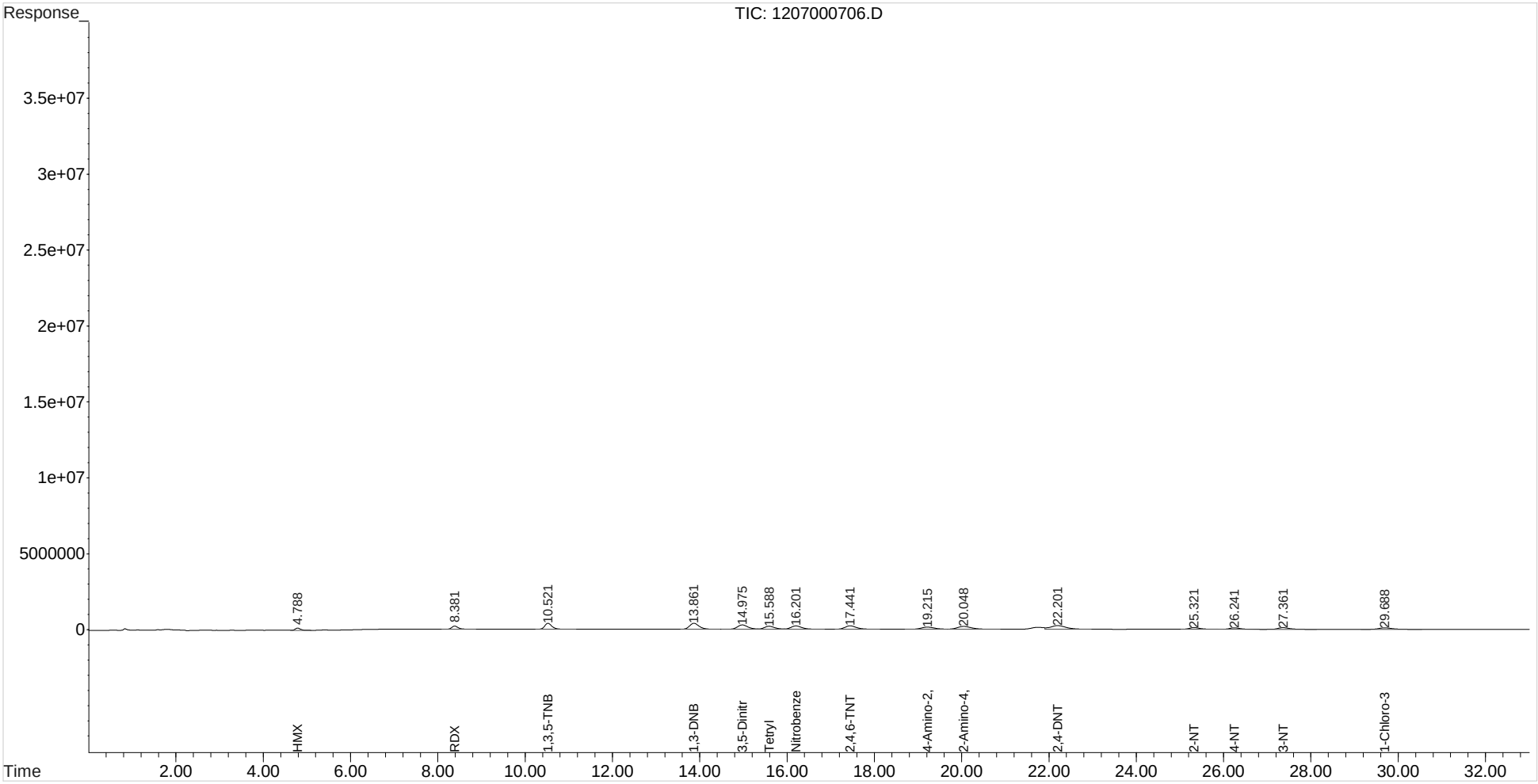
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:06:56 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

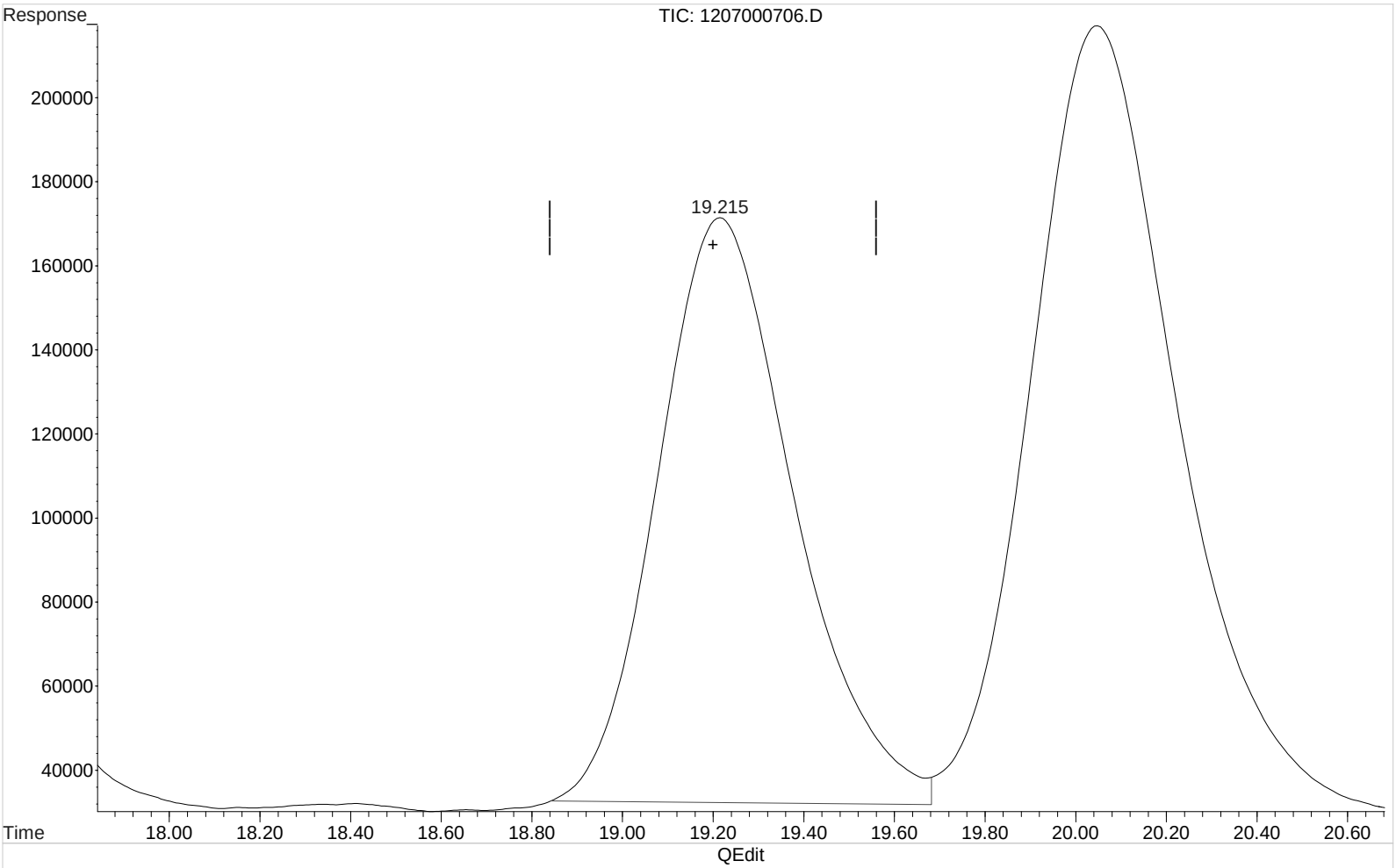


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(11) 4-Amino-2,6-DNT (T)

19.215min 100.578 ug/L

response 2896316

Manual Integration:

Before

12/08/16

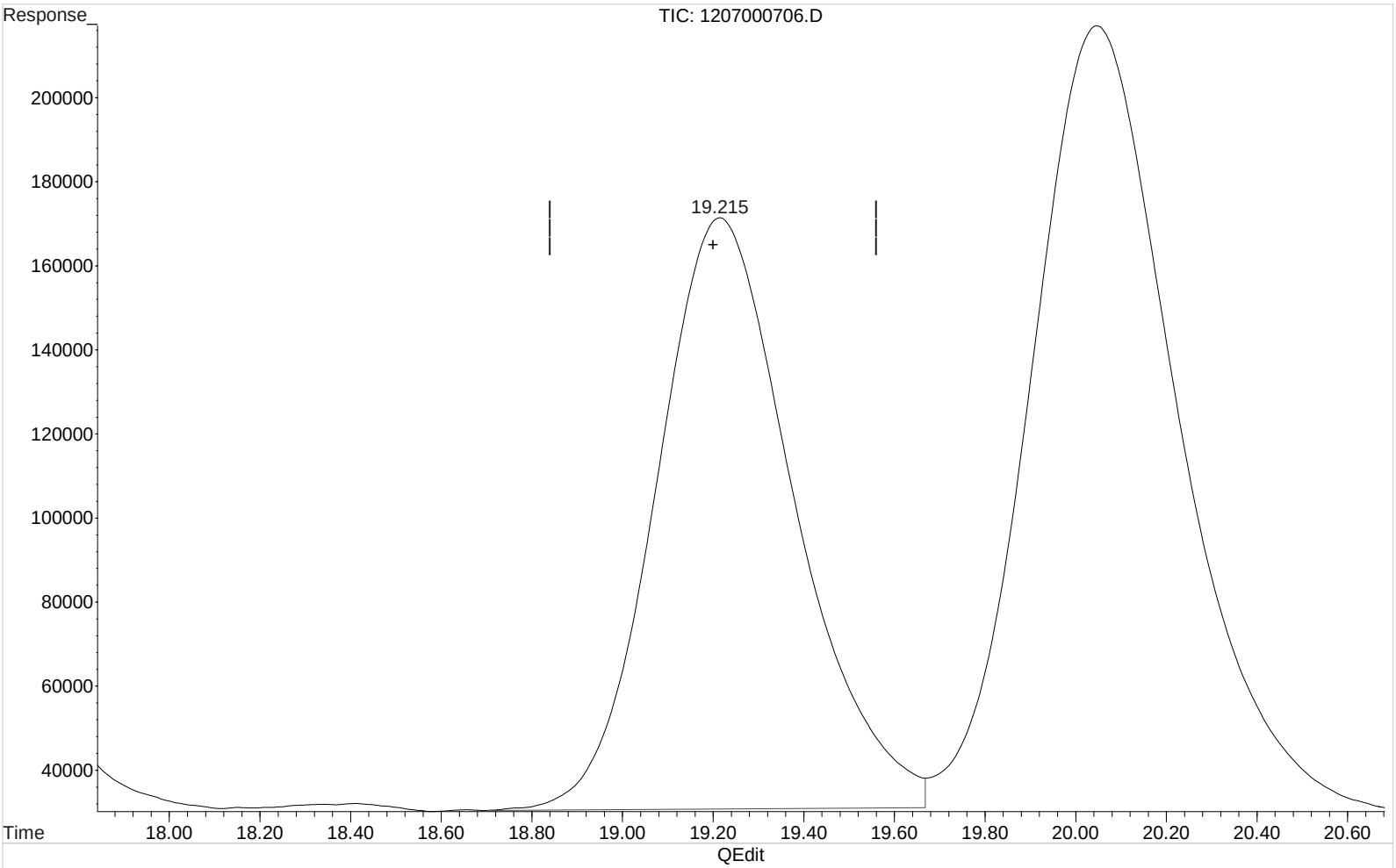
(+) = Expected Retention Time

(b) (6)
1st 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(11) 4-Amino-2,6-DNT (T)

19.215min 103.131 ug/L m

response 2969829

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b)(6)

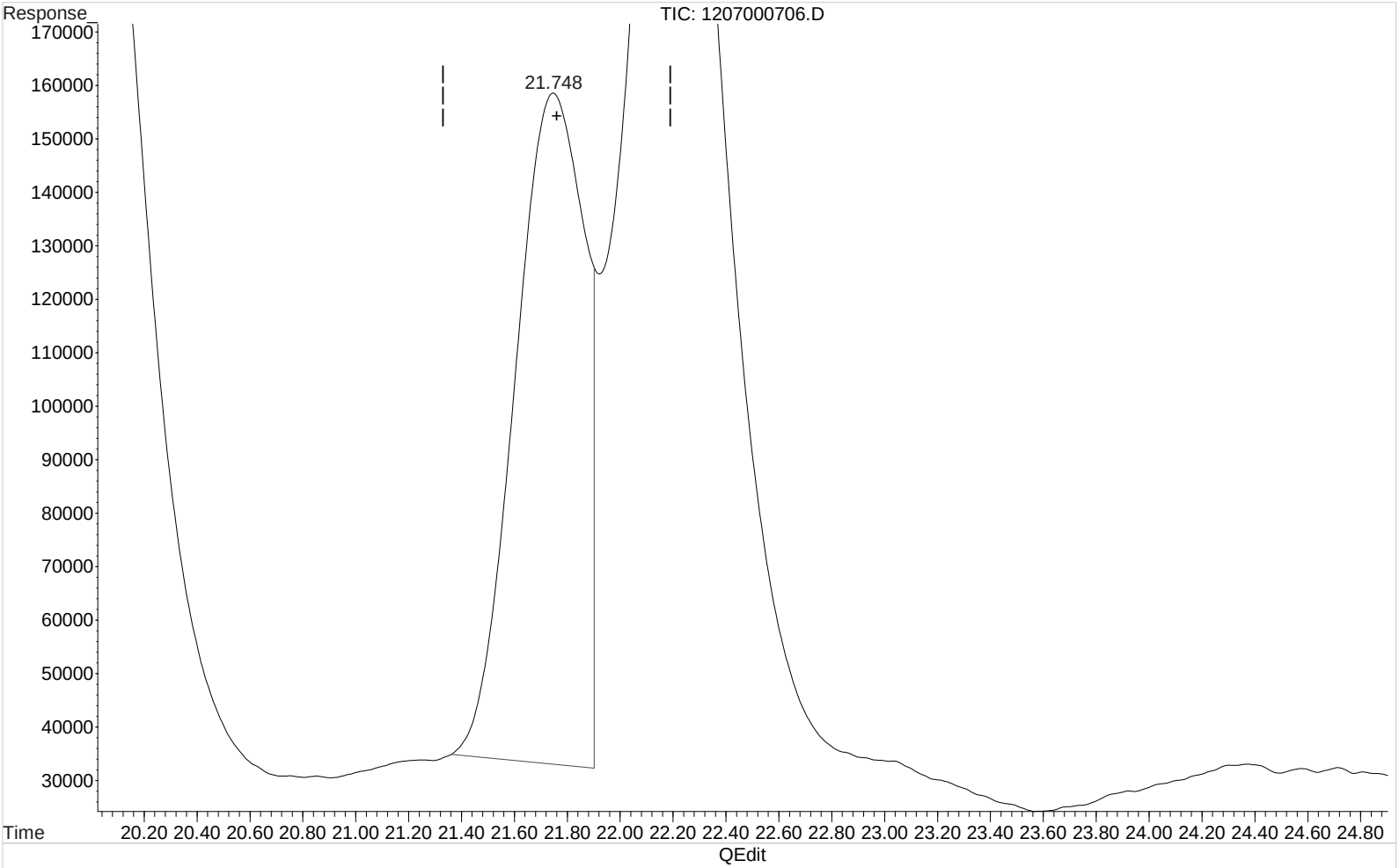
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.748min 0.000 ug/L

response 2294444

Manual Integration:

Before

12/08/16

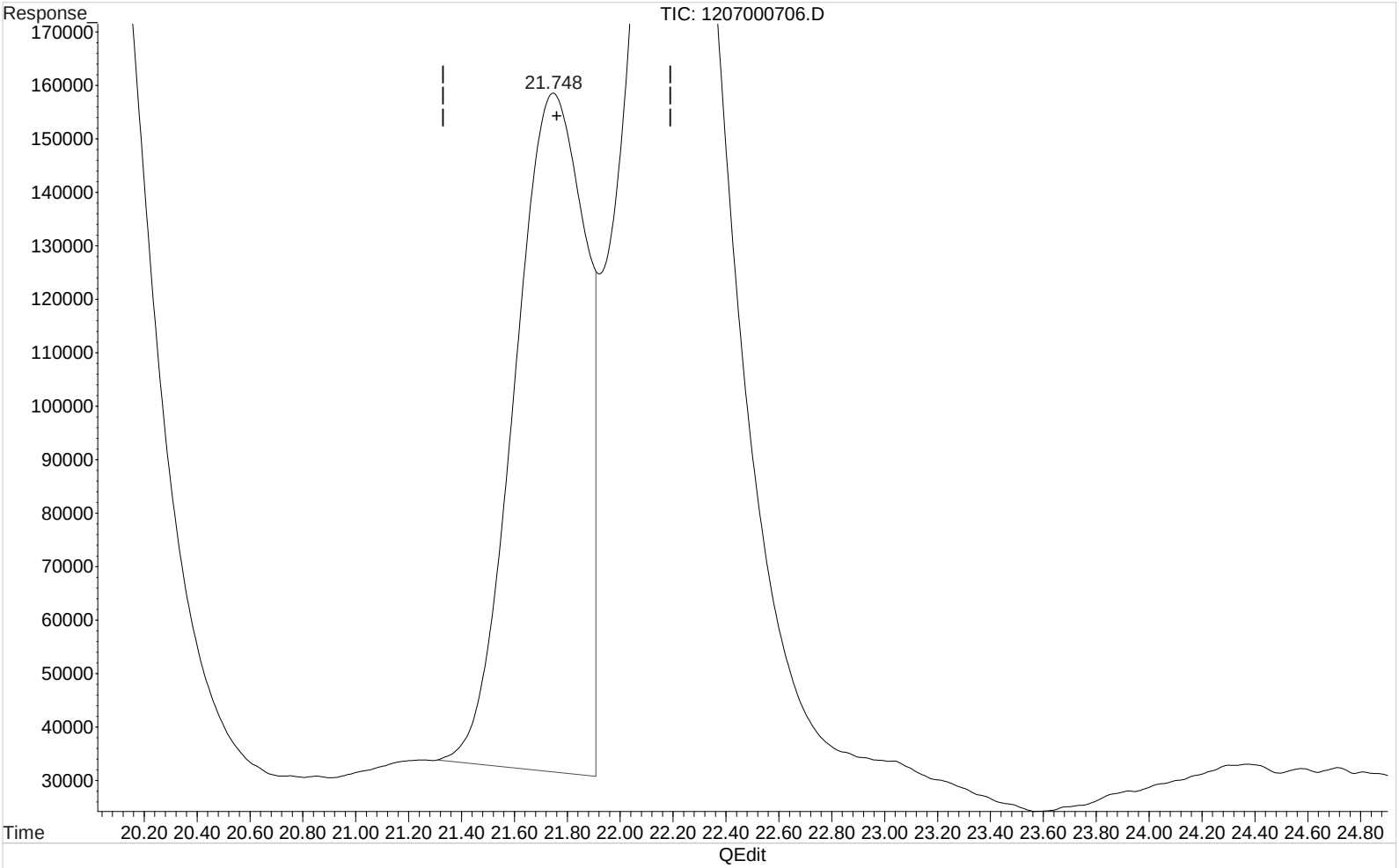
(+) = Expected Retention Time

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.748min 0.000 ug/L m

response 2380424

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b)(6)

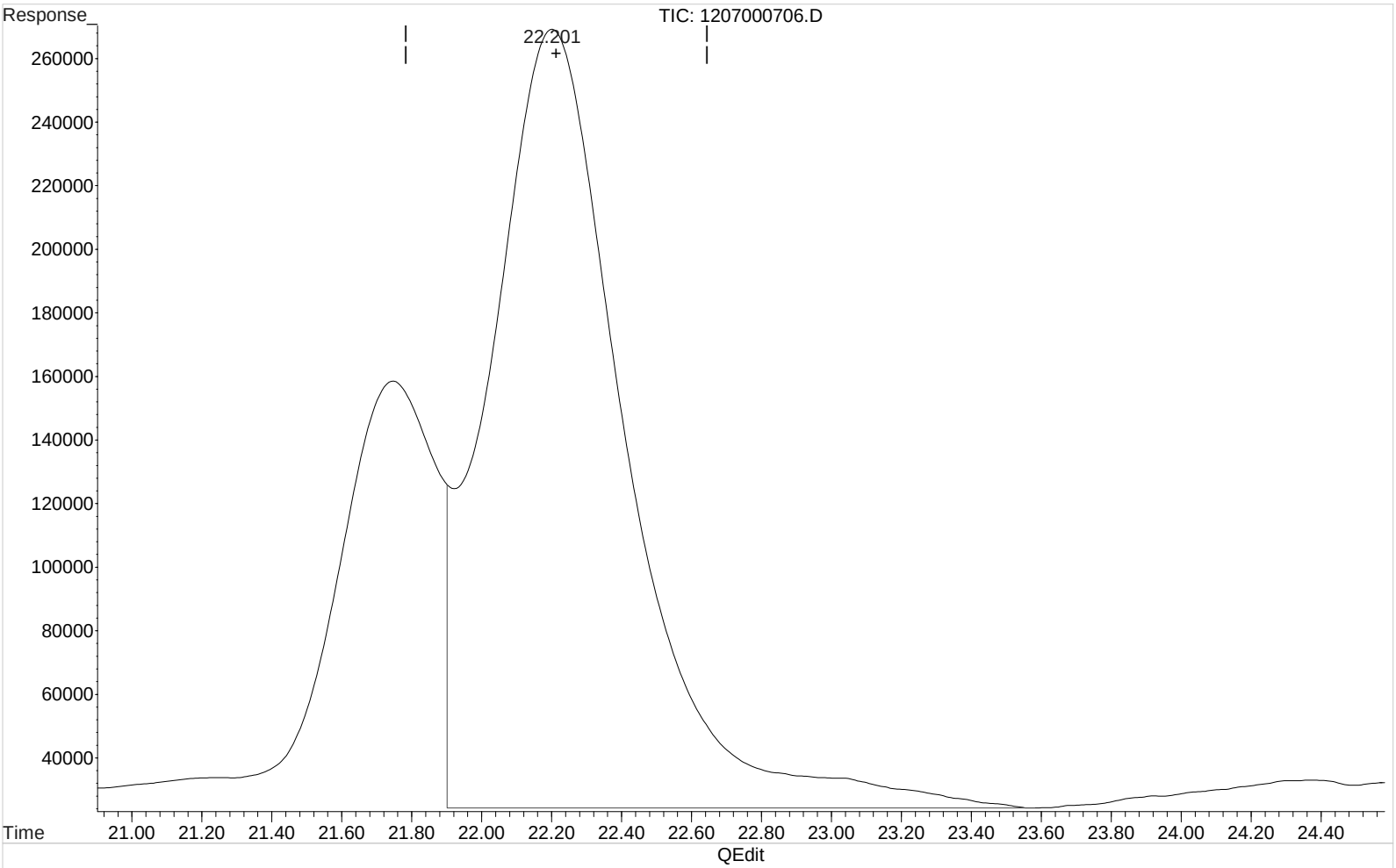
1st 2/08/16

2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.201min 114.241 ug/L

response 6665030

Manual Integration:

Before

12/08/16

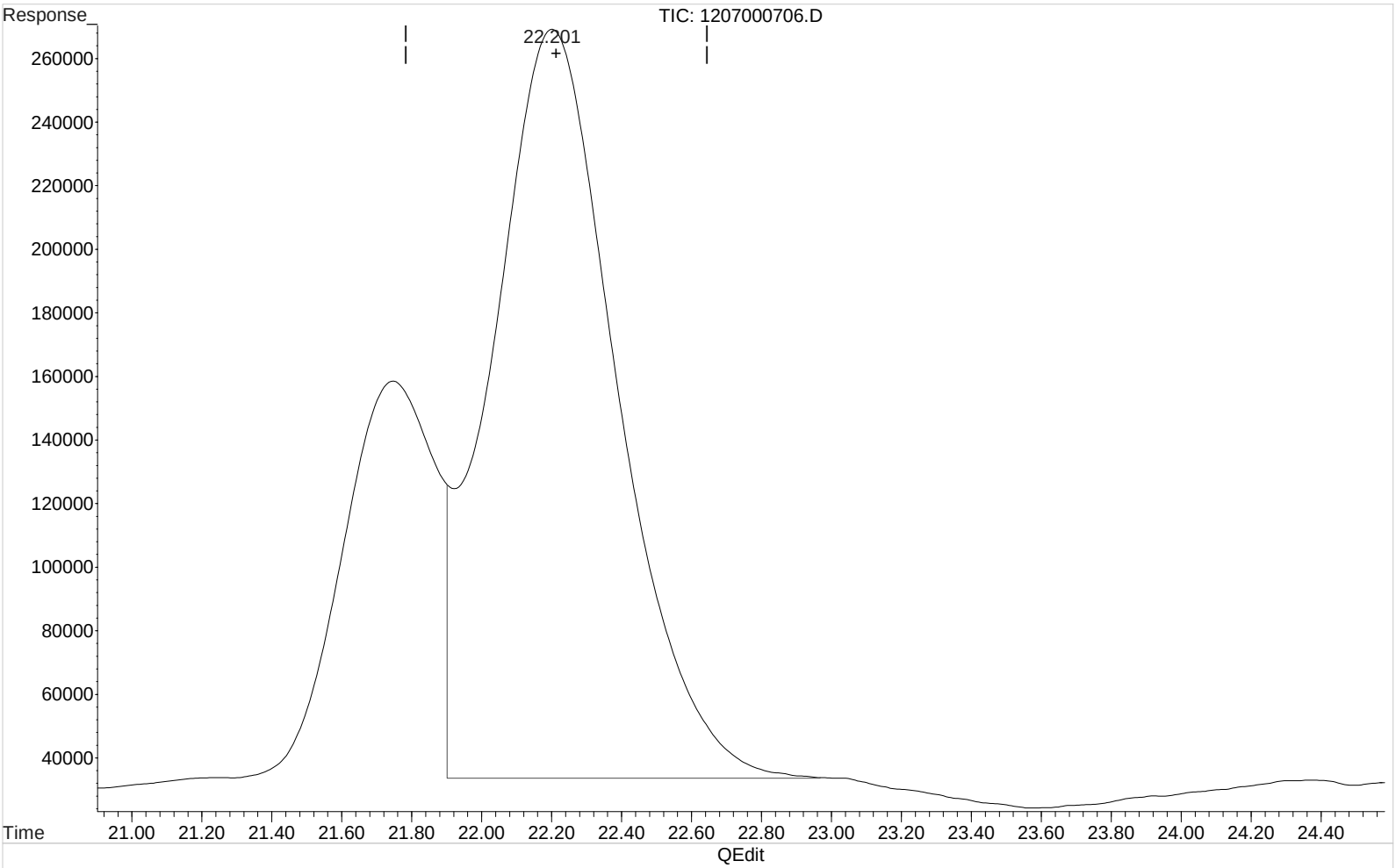
(+) = Expected Retention Time

1st (b)(6) 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(14) 2,4-DNT (T)

22.201min 101.023 ug/L m

response 5893843

Manual Integration:

After

BLC

12/08/16

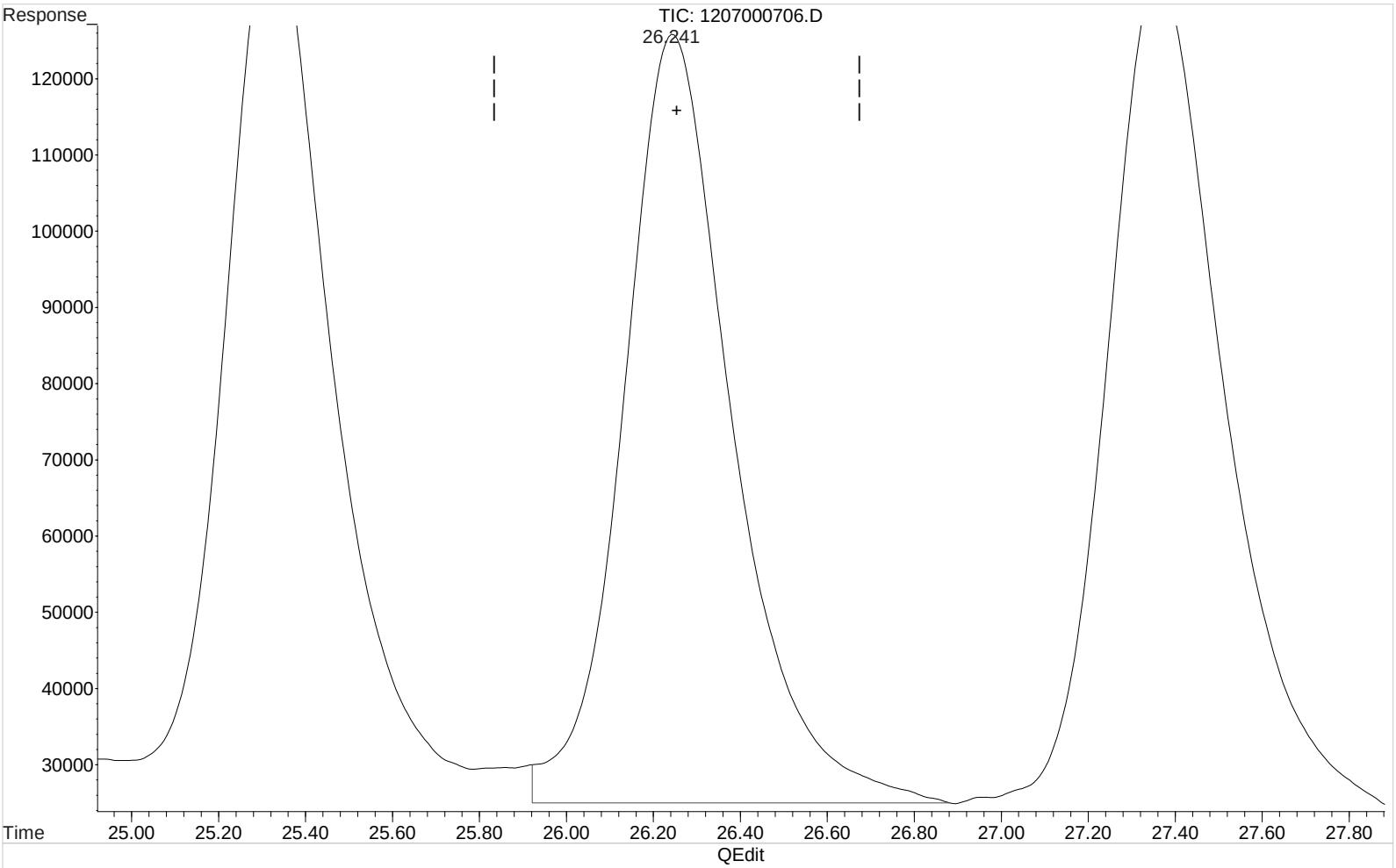
(+) = Expected Retention Time

(b) (6)
1st 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(16) 4-NT (T)

26.241min 109.482 ug/L

response 1758863

Manual Integration:

Before

12/08/16

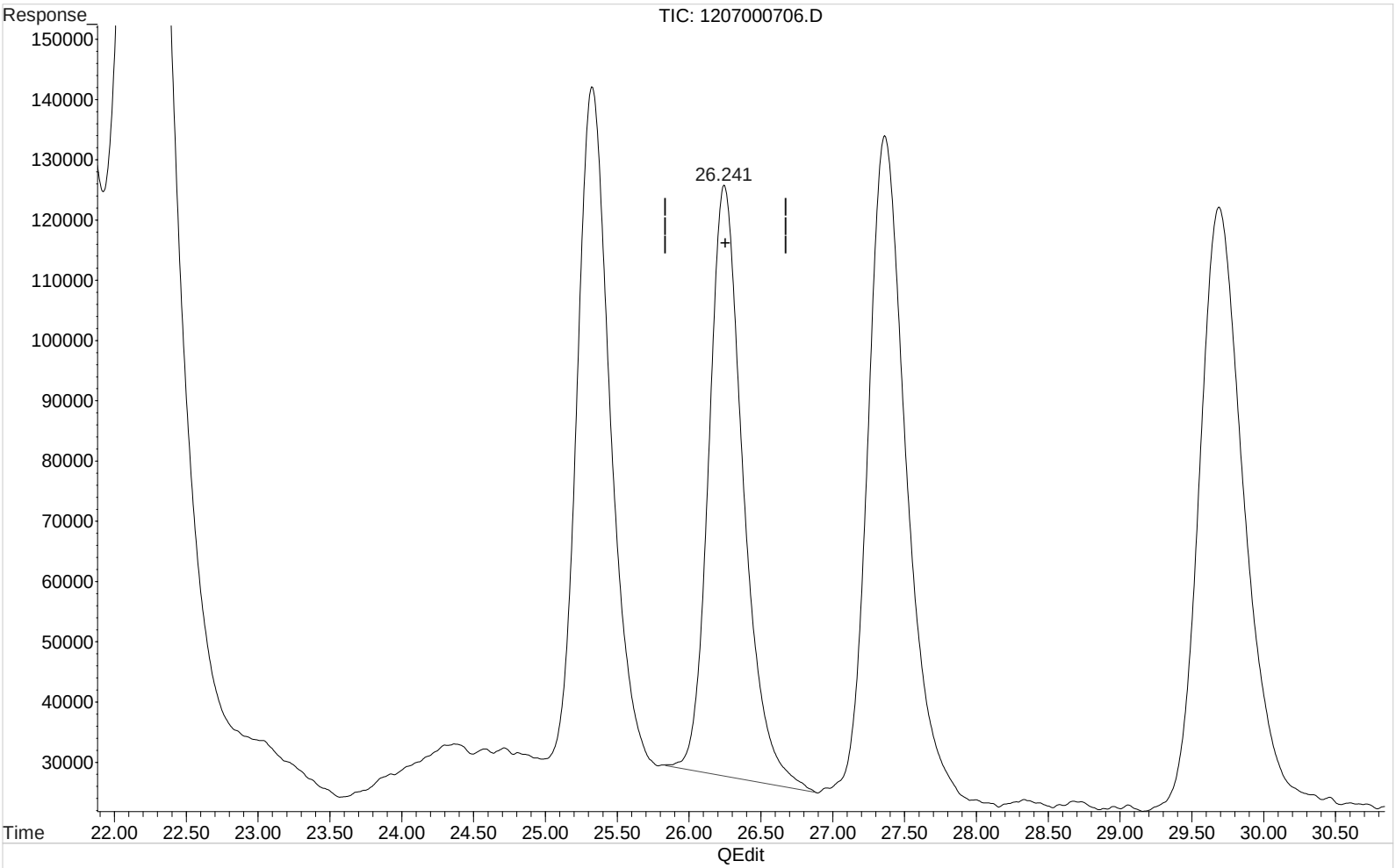
(+) = Expected Retention Time

1st (b)(6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(16) 4-NT (T)

26.241min 102.283 ug/L m

response 1643208

Manual Integration:

After

BLC

12/08/16

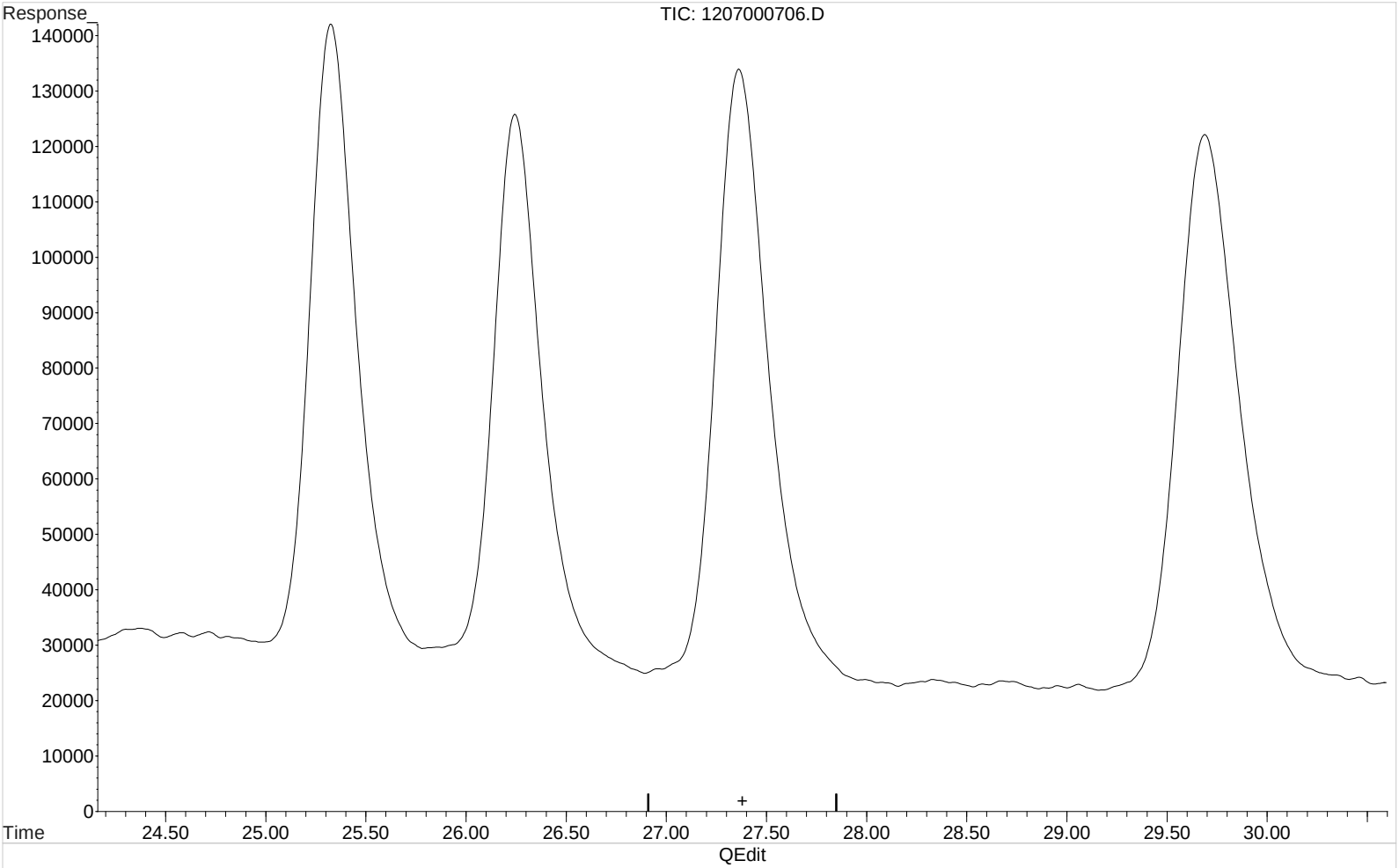
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

0.000min 0.000 ug/L d

response 0

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

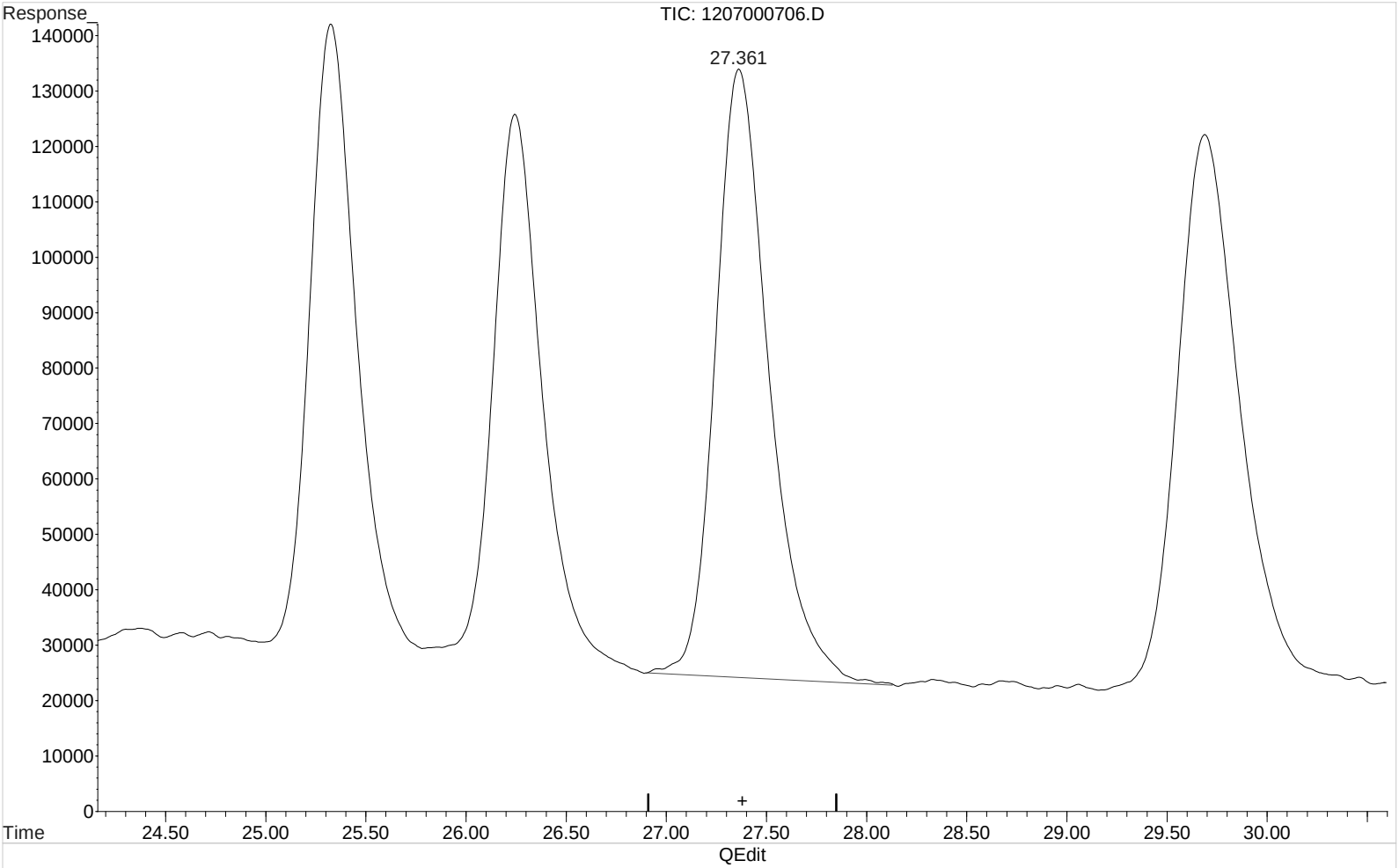
Quantitation Report (Qedit)

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.361min 101.964 ug/L m

response 2049432

Manual Integration:

After

Accidentally deleted, reintegrated

12/08/16

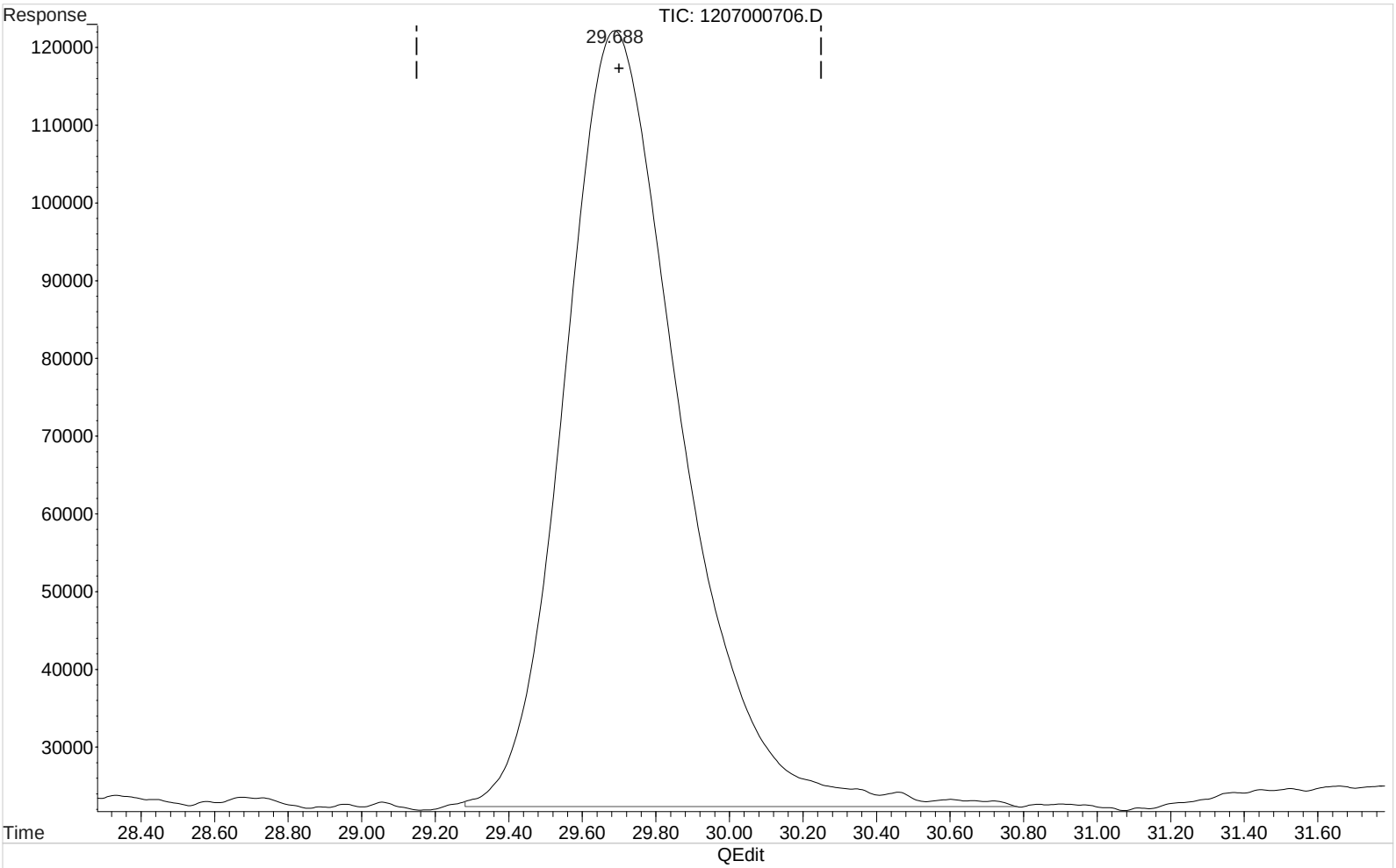
(+) = Expected Retention Time

(b) (6)
1st [redacted] 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(18) 1-Chloro-3-Nitrobenzene (S)

29.688min 97.323 ug/L

response 2195729

Manual Integration:

Before

12/08/16

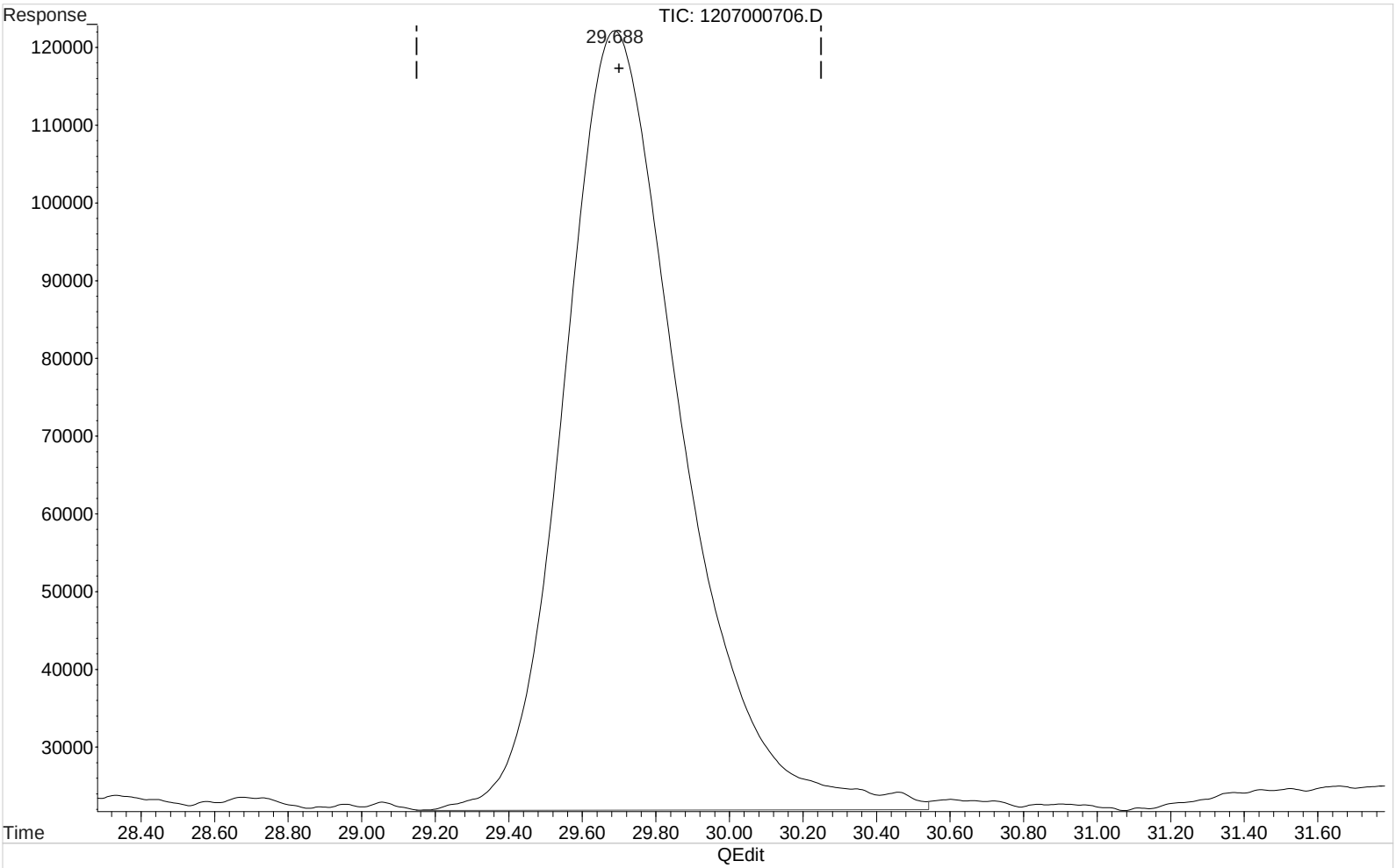
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(18) 1-Chloro-3-Nitrobenzene (S)

29.688min 98.517 ug/L m

response 2222660

Manual Integration:

After

BLC

12/08/16

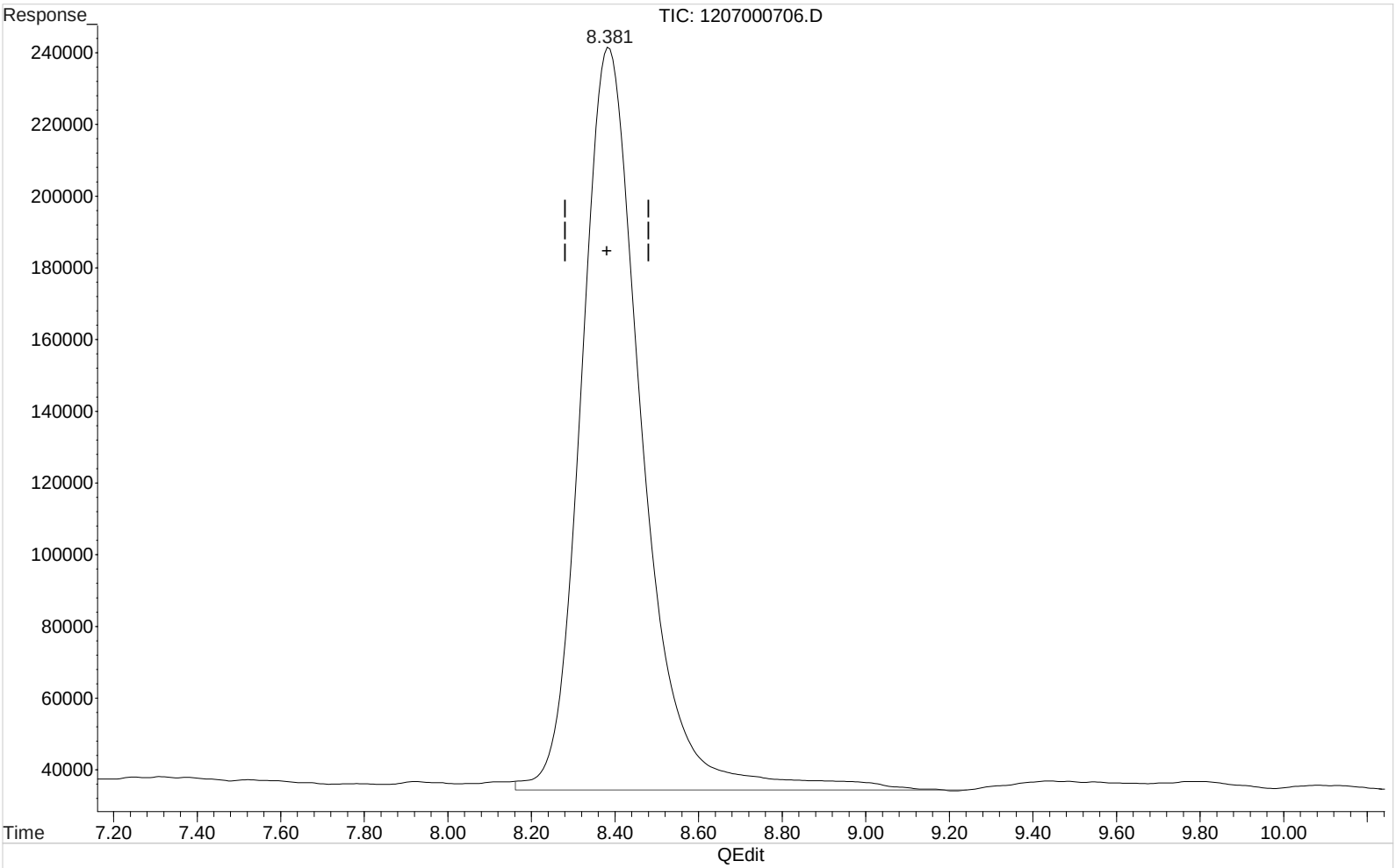
(+) = Expected Retention Time

(b) (6)
1st [redacted] 2/08/16
2nd [redacted] 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(4) RDX (T)

8.381min 104.100 ug/L

response 2112981

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

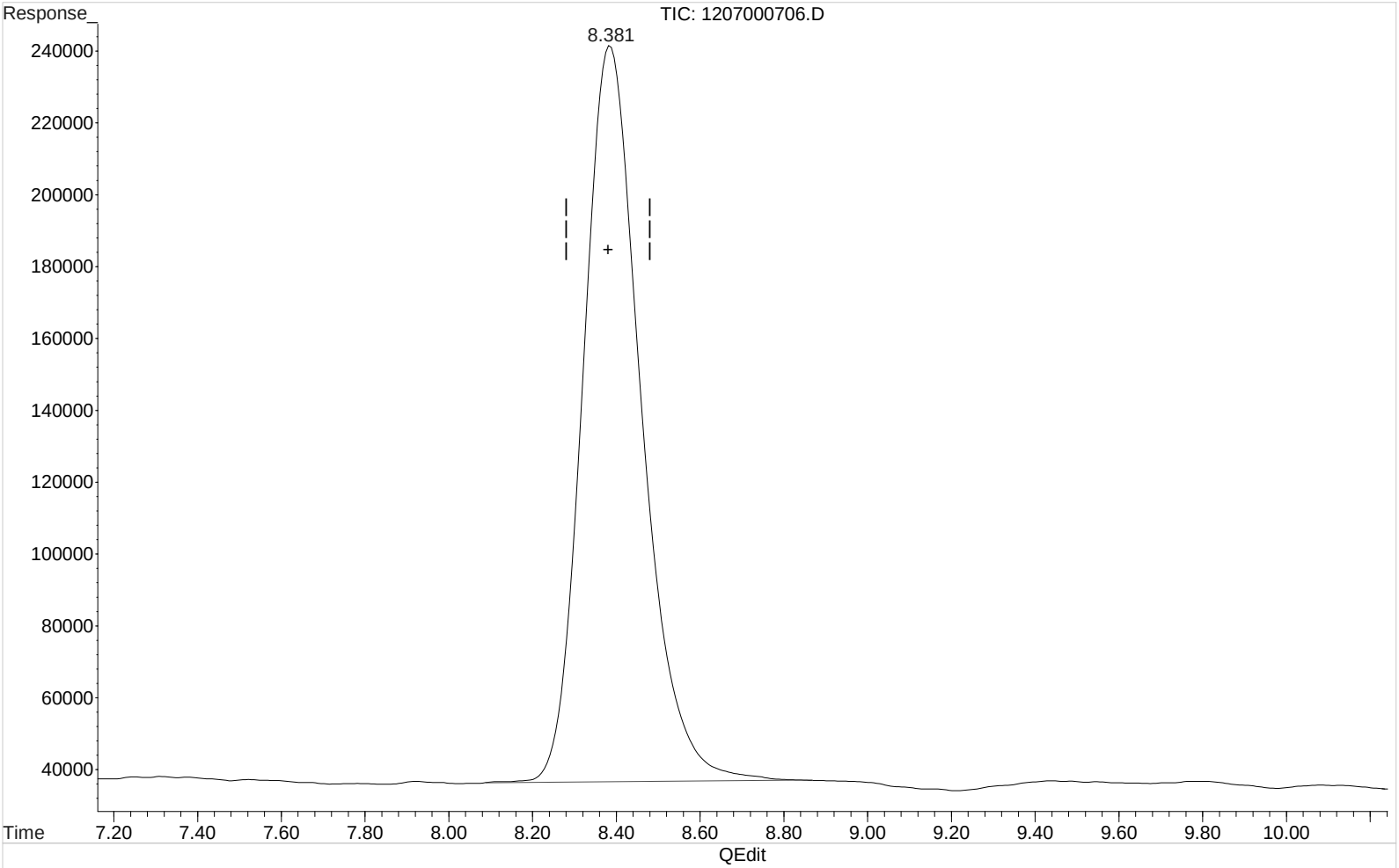
Quantitation Report (Qedit)

(b) (6)
1st /08/16
2nd /09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(4) RDX (T)

8.381min 97.807 ug/L m

response 1985238

Manual Integration:

After

BLC

12/08/16

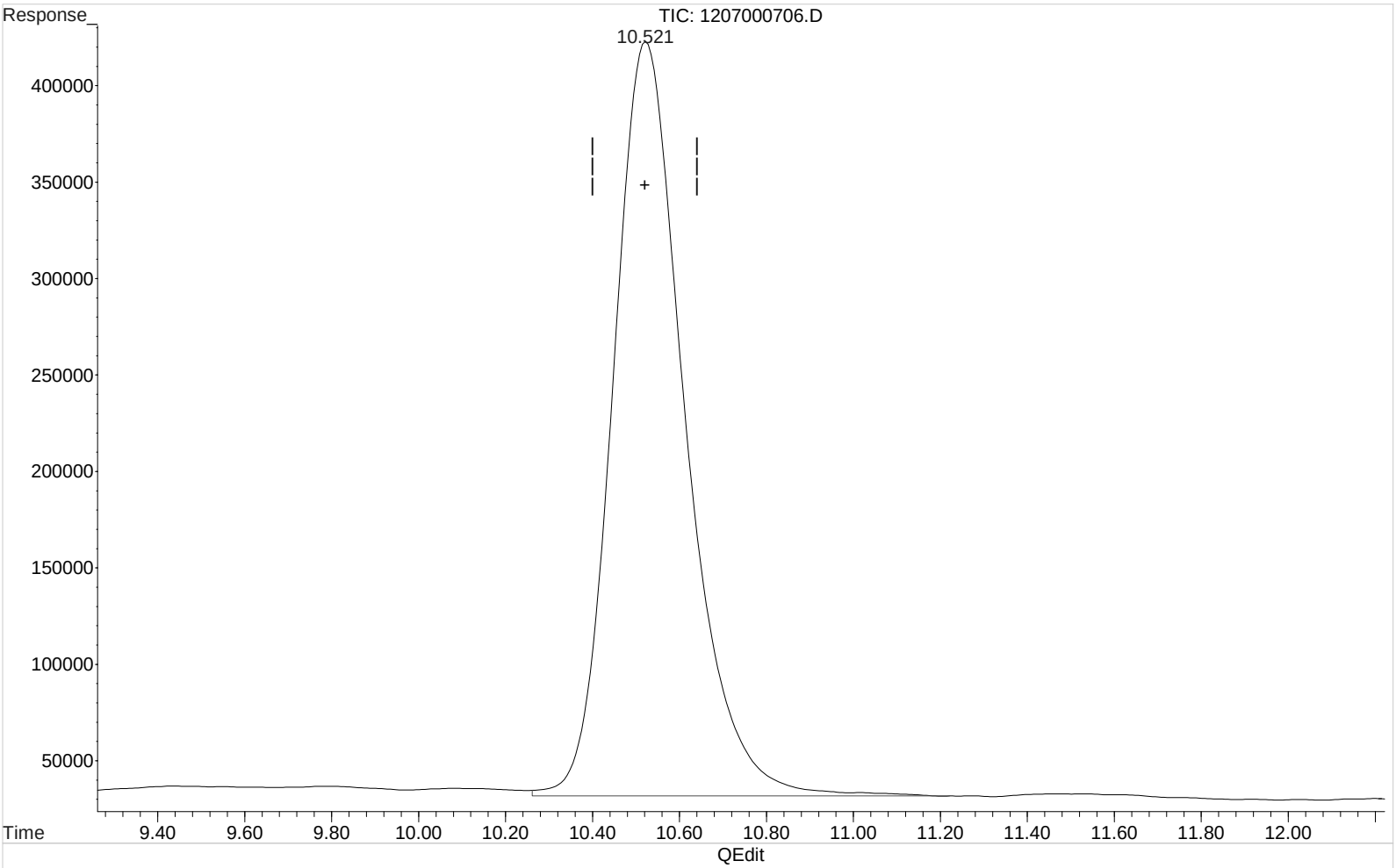
(+) = Expected Retention Time

(b) (6)
1st /08/16
2nd /09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(5) 1,3,5-TNB (T)

10.521min 99.668 ug/L

response 4529404

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

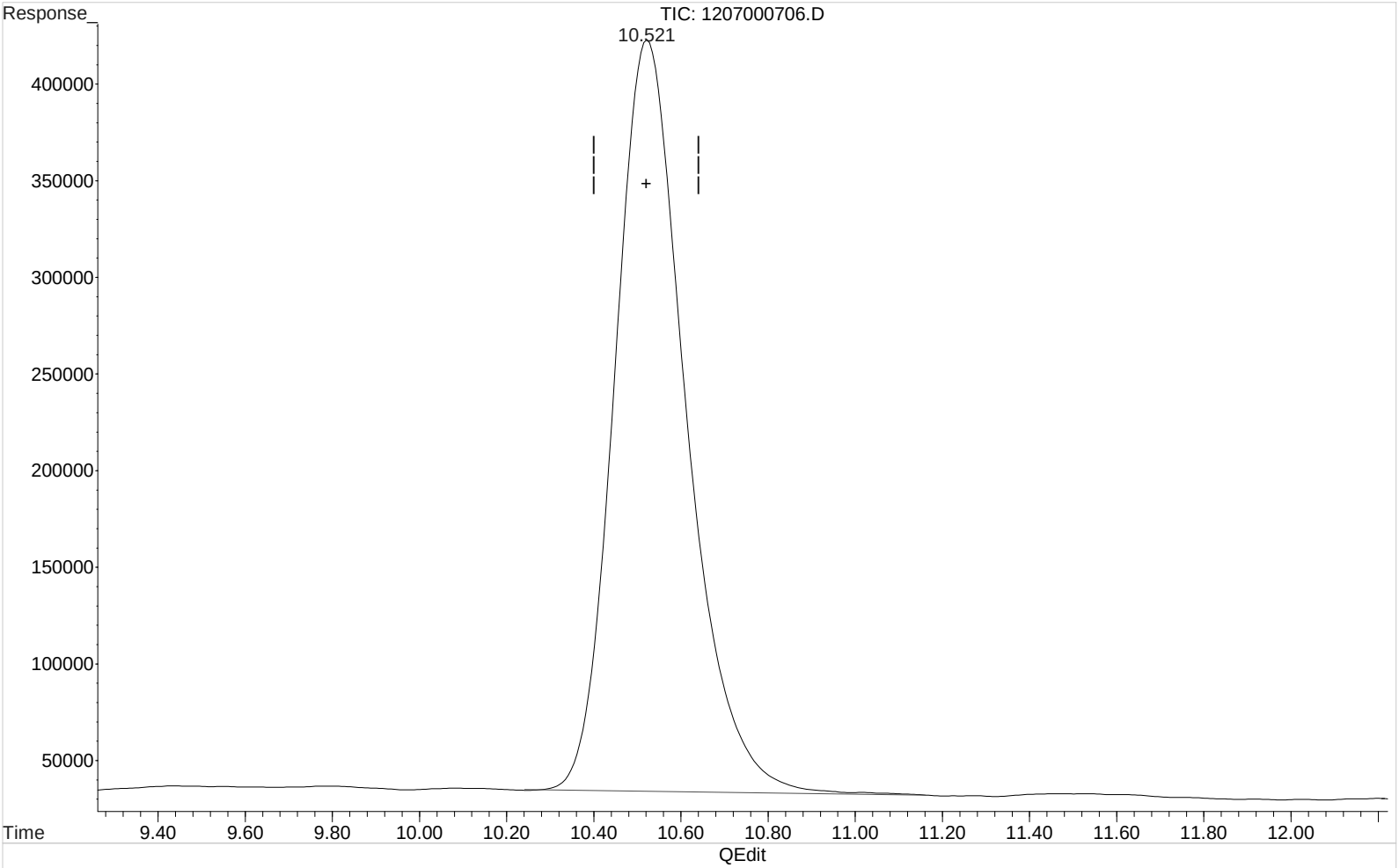
1s 12/08/16

2 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(5) 1,3,5-TNB (T)

10.521min 97.549 ug/L m

response 4433120

Manual Integration:

After

BLC

12/08/16

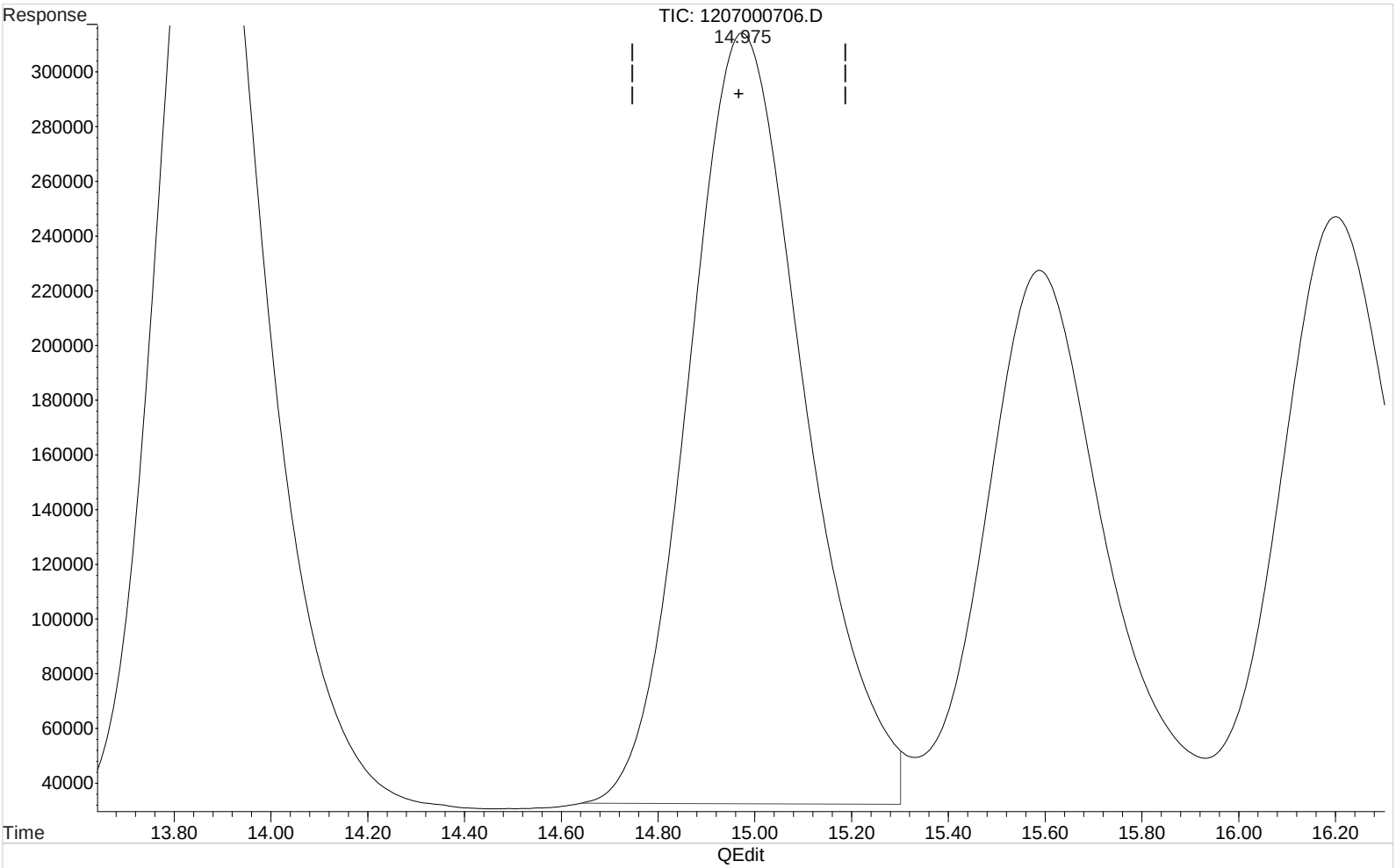
(+) = Expected Retention Time

(b)
(6)
1st 12/08/16
2n 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.975min 97.288 ug/L

response 4690794

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

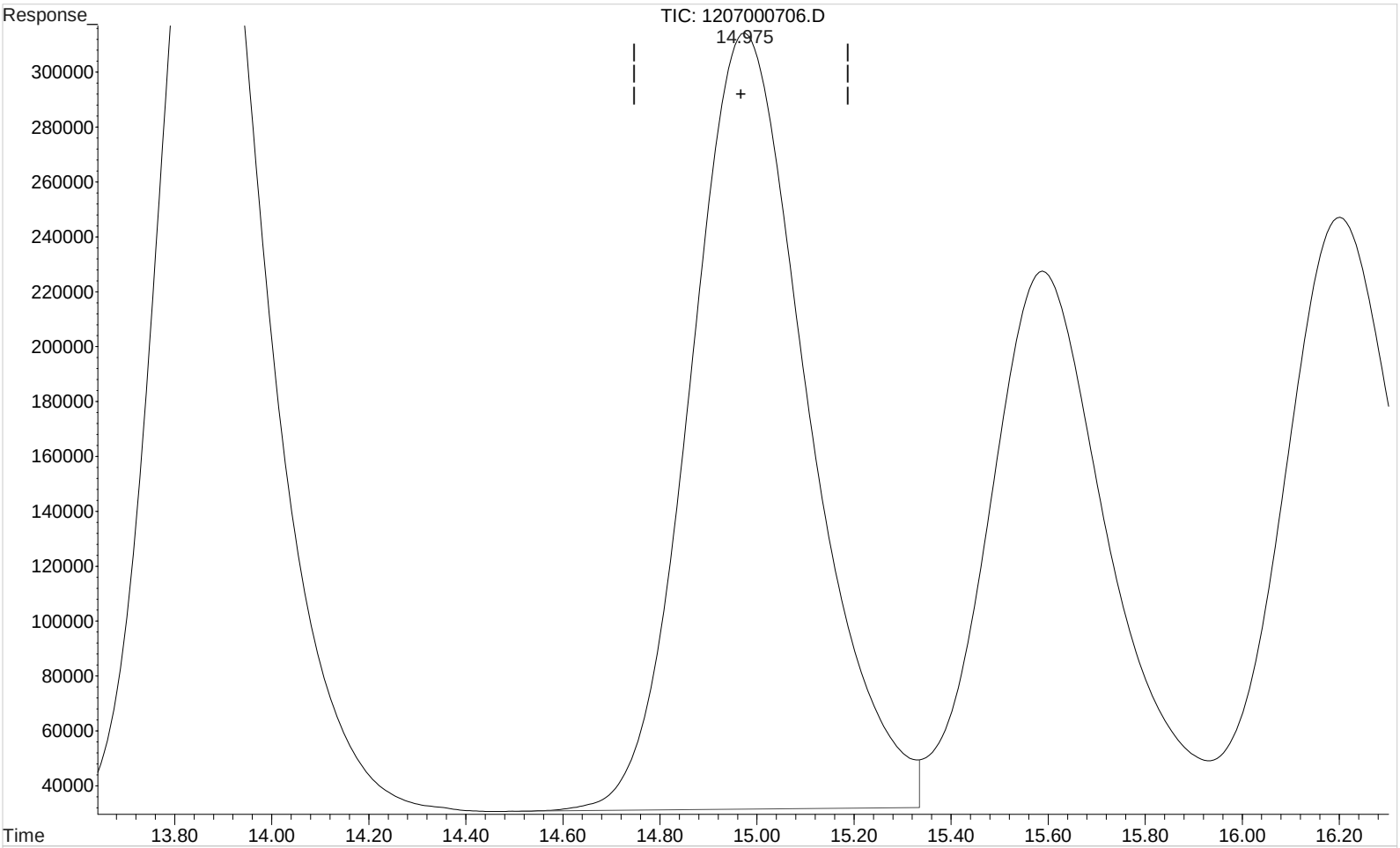
1 12/08/16

2 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.975min 98.935 ug/L m

response 4770181

Manual Integration:

After

BLC

12/08/16

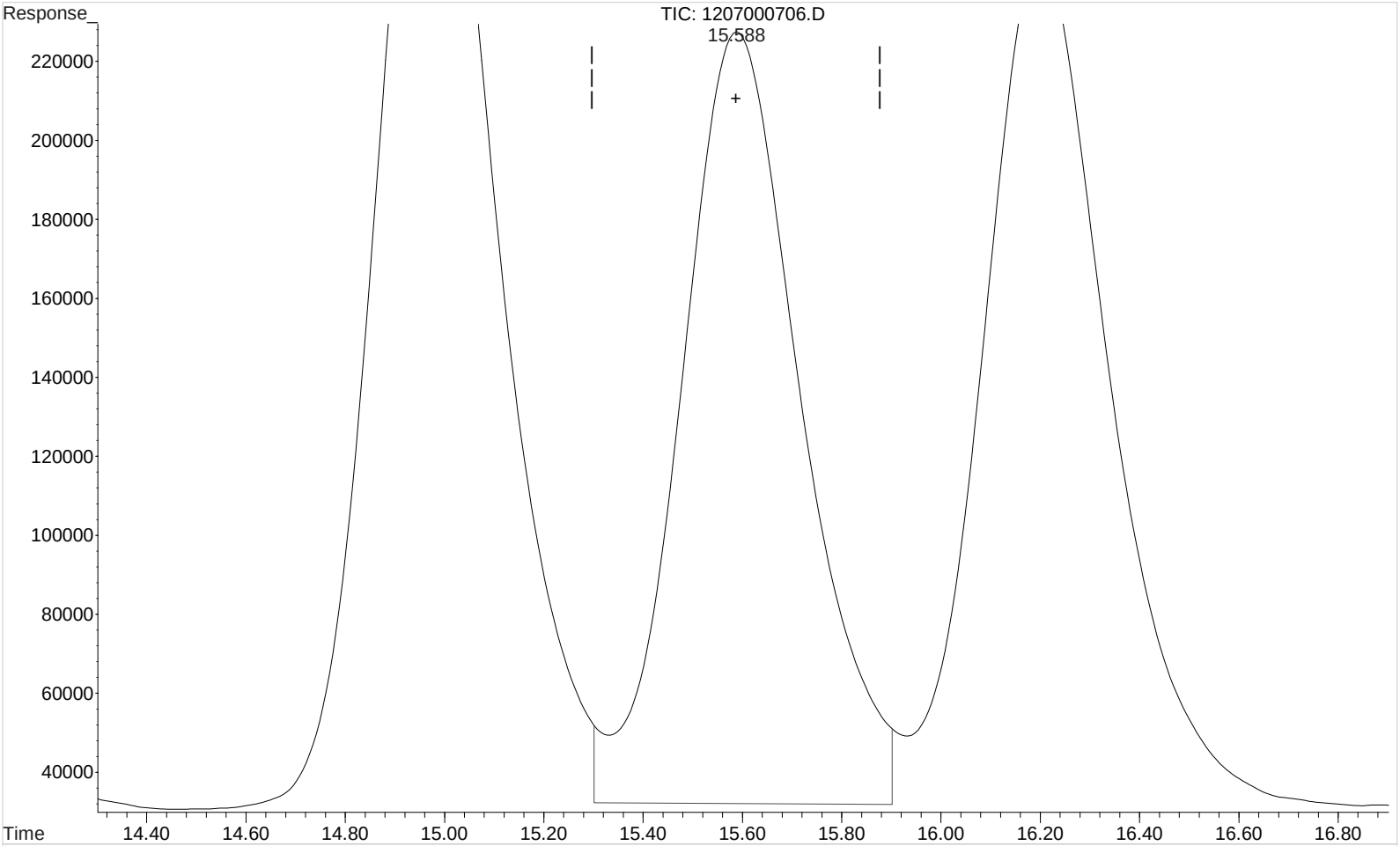
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(8) Tetryl (T)

15.588min 97.618 ug/L

response 3280904

Manual Integration:

Before

12/08/16

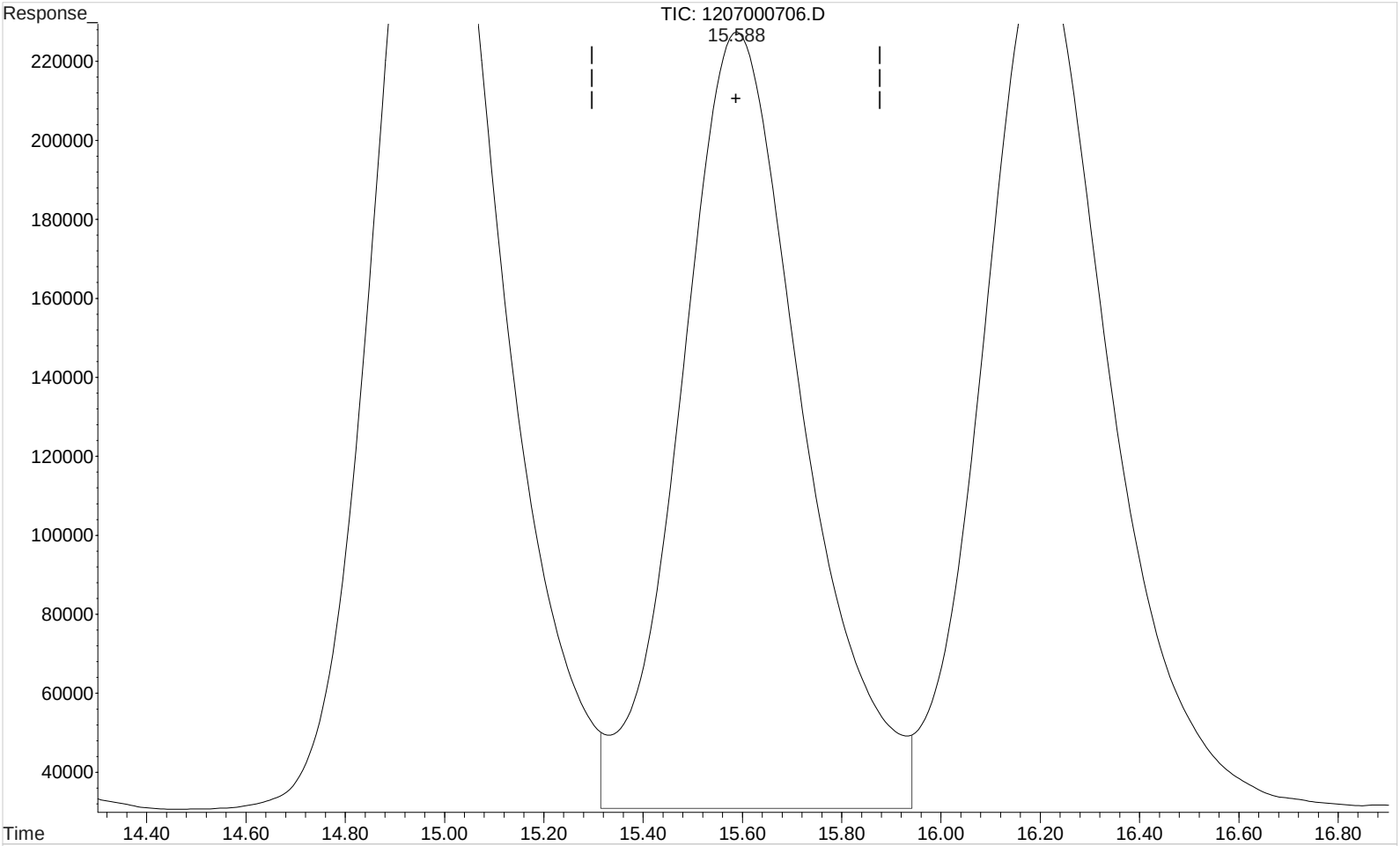
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(8) Tetryl (T)

15.588min 99.774 ug/L m

response 3353341

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

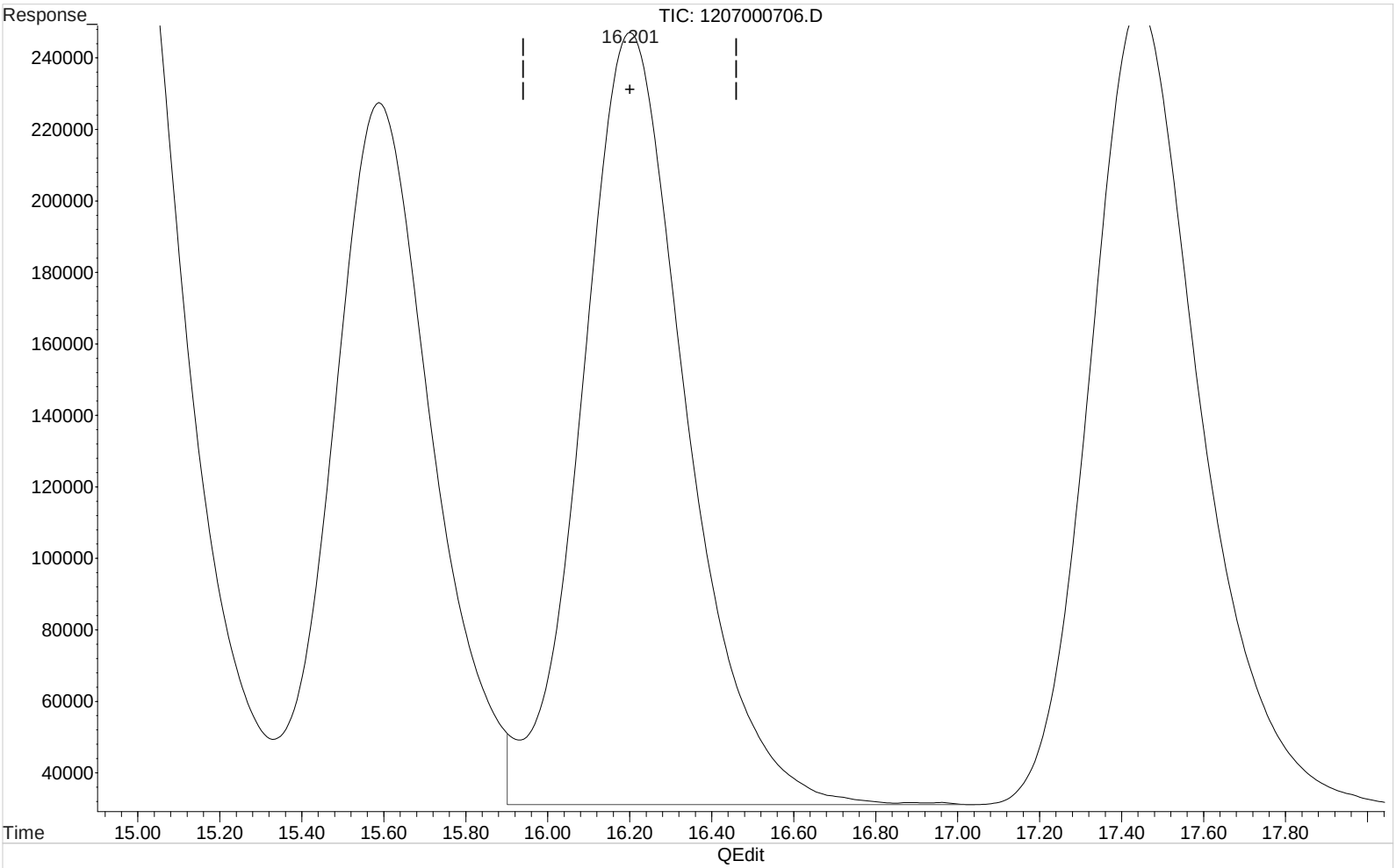
Quantitation Report (Qedit)

1st (b) (6) 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.201min 97.938 ug/L

response 3839592

Manual Integration:

Before

12/08/16

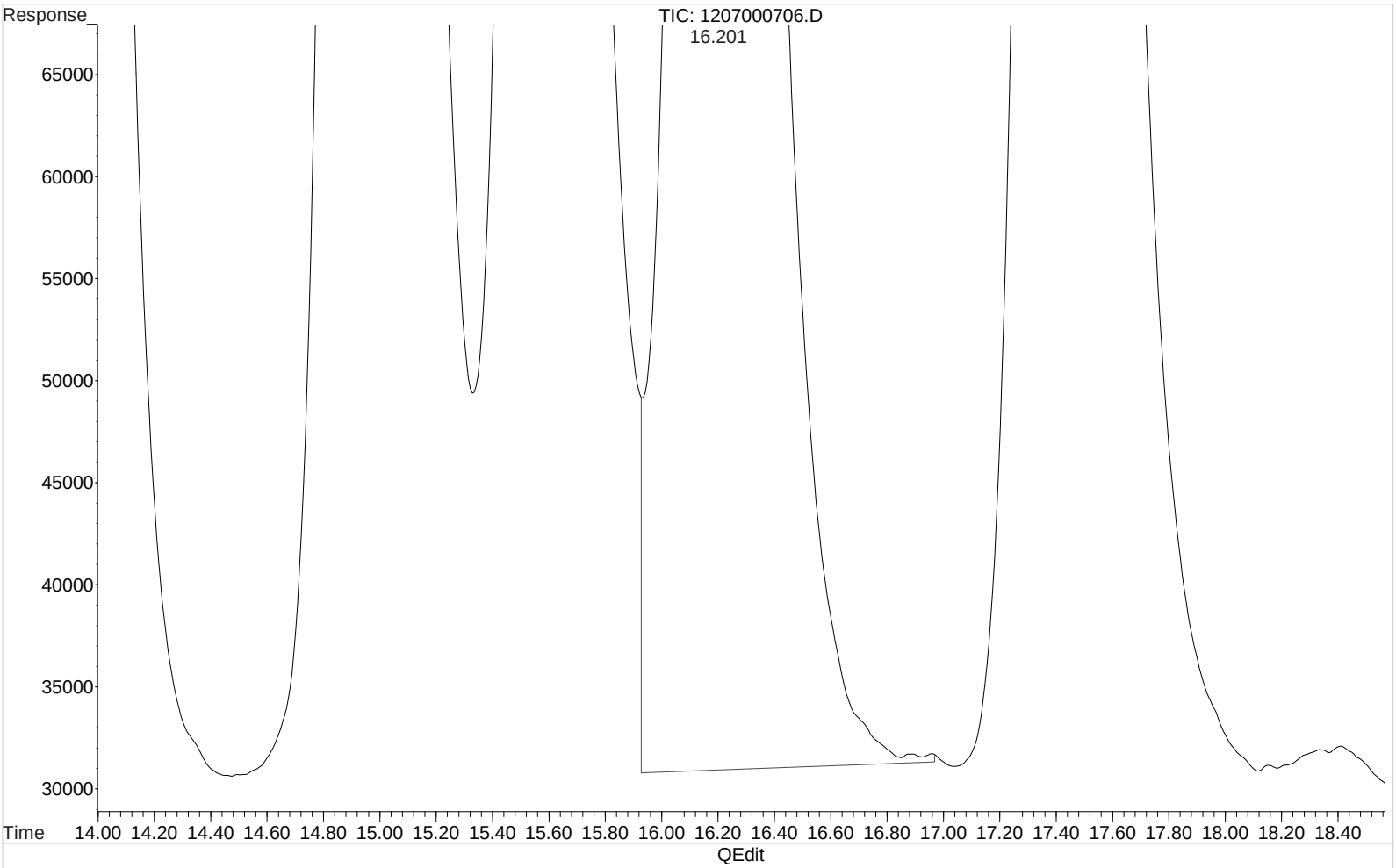
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.201min 97.226 ug/L m

response 3811670

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

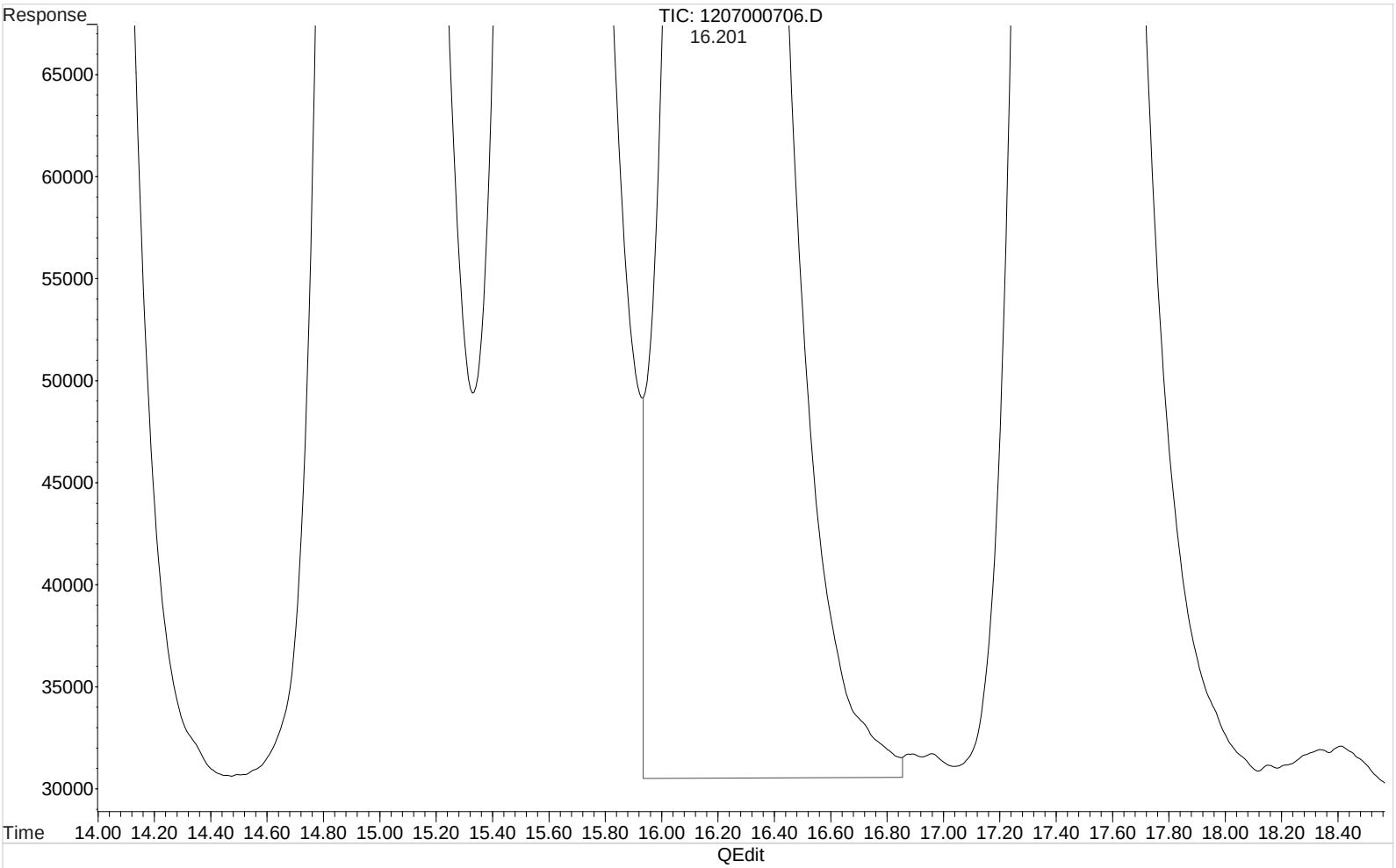
Quantitation Report (Qedit)

(b) (6)
1st 12/08/16
2n 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.201min 97.660 ug/L m

response 3828698

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)
1st [redacted] 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:13:39 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
18)	S	1-Chloro-3-Nitrobenzene	29.700	4361045	194.259	ug/L	m
		Target Compounds					
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	4.786	2435762	205.004	ug/L	
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	8.386	3921355	194.616	ug/L	
5)	T	1,3,5-TNB	10.520	8886477	197.154	ug/L	
6)	T	1,3-DNB	13.866	12031824	196.315	ug/L	
7)	T	3,5-Dinitroaniline	14.980	9487220	197.468	ug/L	m
8)	T	Tetryl	15.593	6714428	199.929	ug/L	m
9)	T	Nitrobenzene	16.206	7632300	196.210	ug/L	m
10)	T	2,4,6-TNT	17.433	8434124	205.226	ug/L	
11)	T	4-Amino-2,6-DNT	19.193	5924218	203.601	ug/L	
12)	T	2-Amino-4,6-DNT	20.026	8501432	194.761	ug/L	
13)	T	2,6-DNT	21.753	4897380	201.372	ug/L	m
14)	T	2,4-DNT	22.206	11809220	201.727	ug/L	m
15)	T	2-NT	25.326	3610858	201.453	ug/L	m
16)	T	4-NT	26.253	3198950	197.617	ug/L	m
17)	T	3-NT	27.380	4020214	198.714	ug/L	

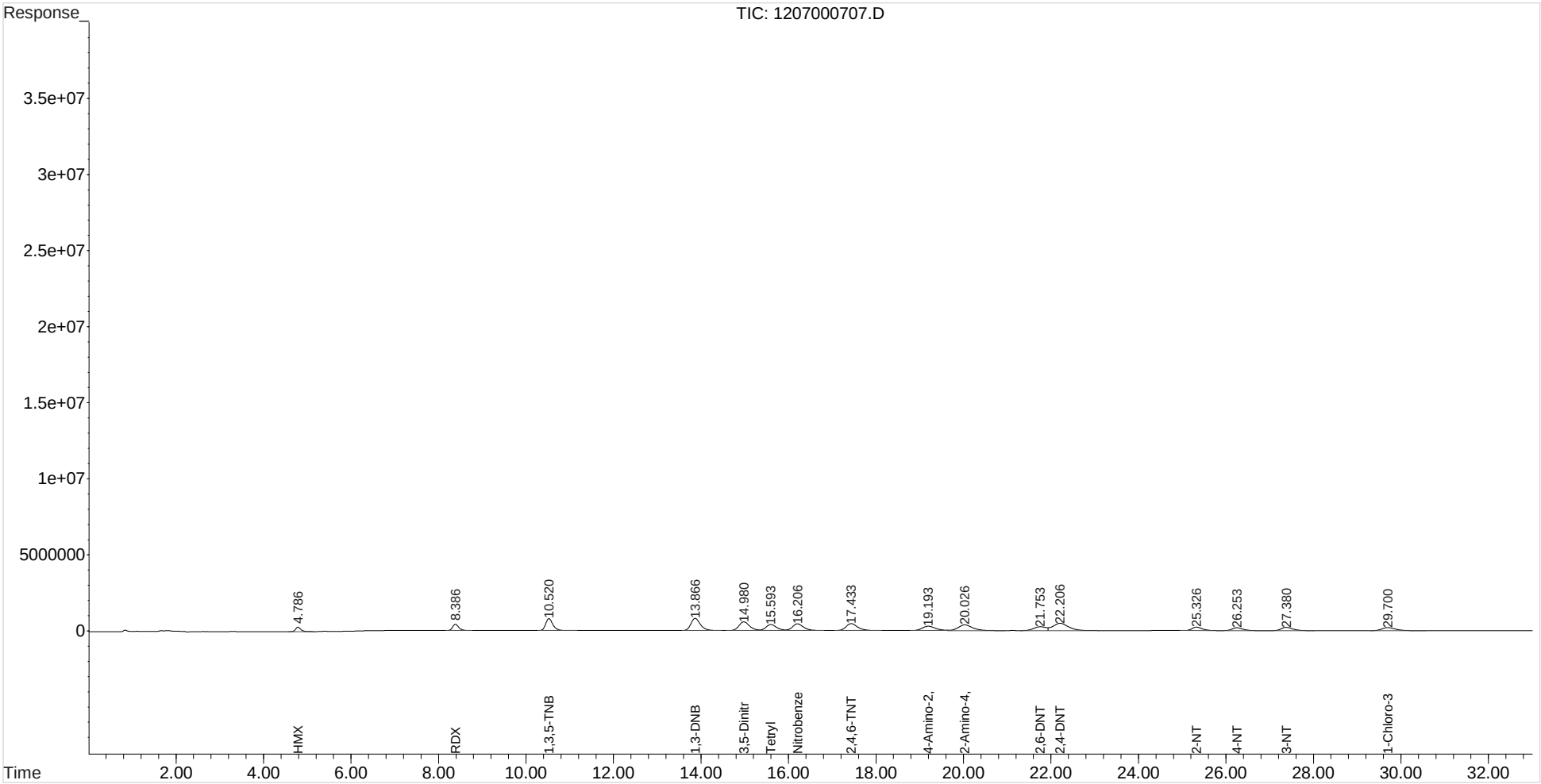
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:13:39 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(b) (6)

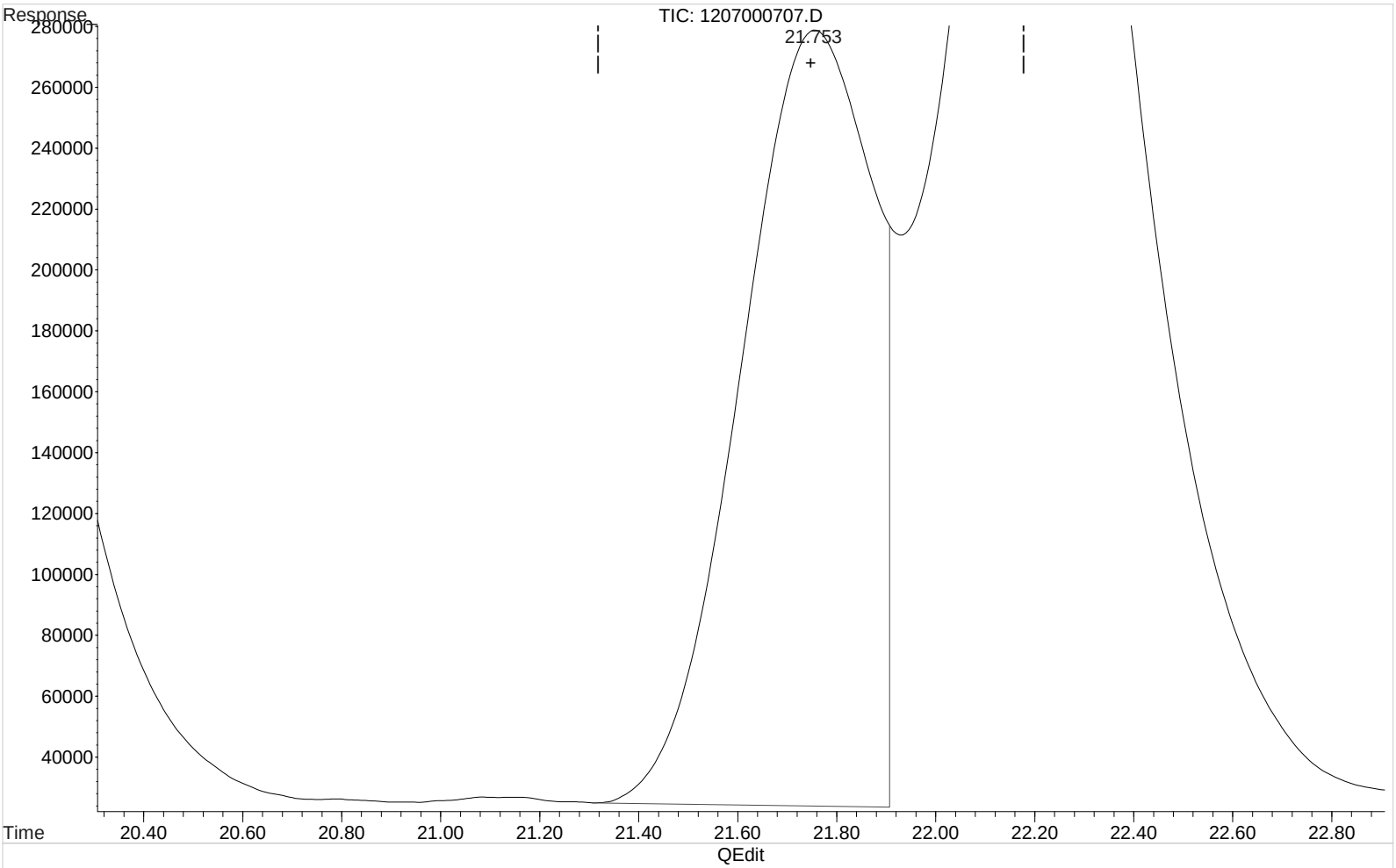
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.753min 193.577 ug/L

response 4707799

Manual Integration:

Before

12/08/16

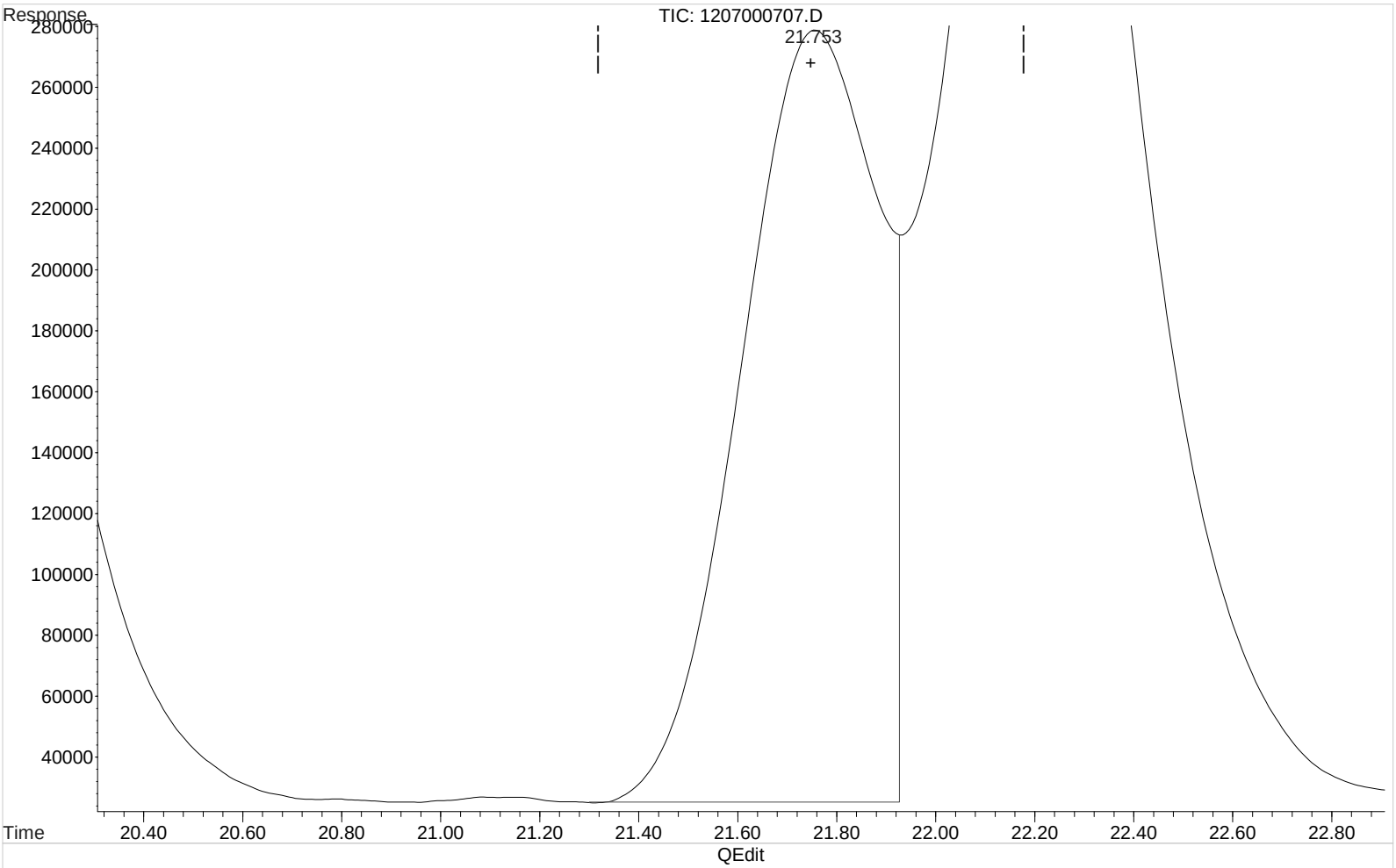
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.753min 201.372 ug/L m

response 4897380

Manual Integration:

After

BLC

12/08/16

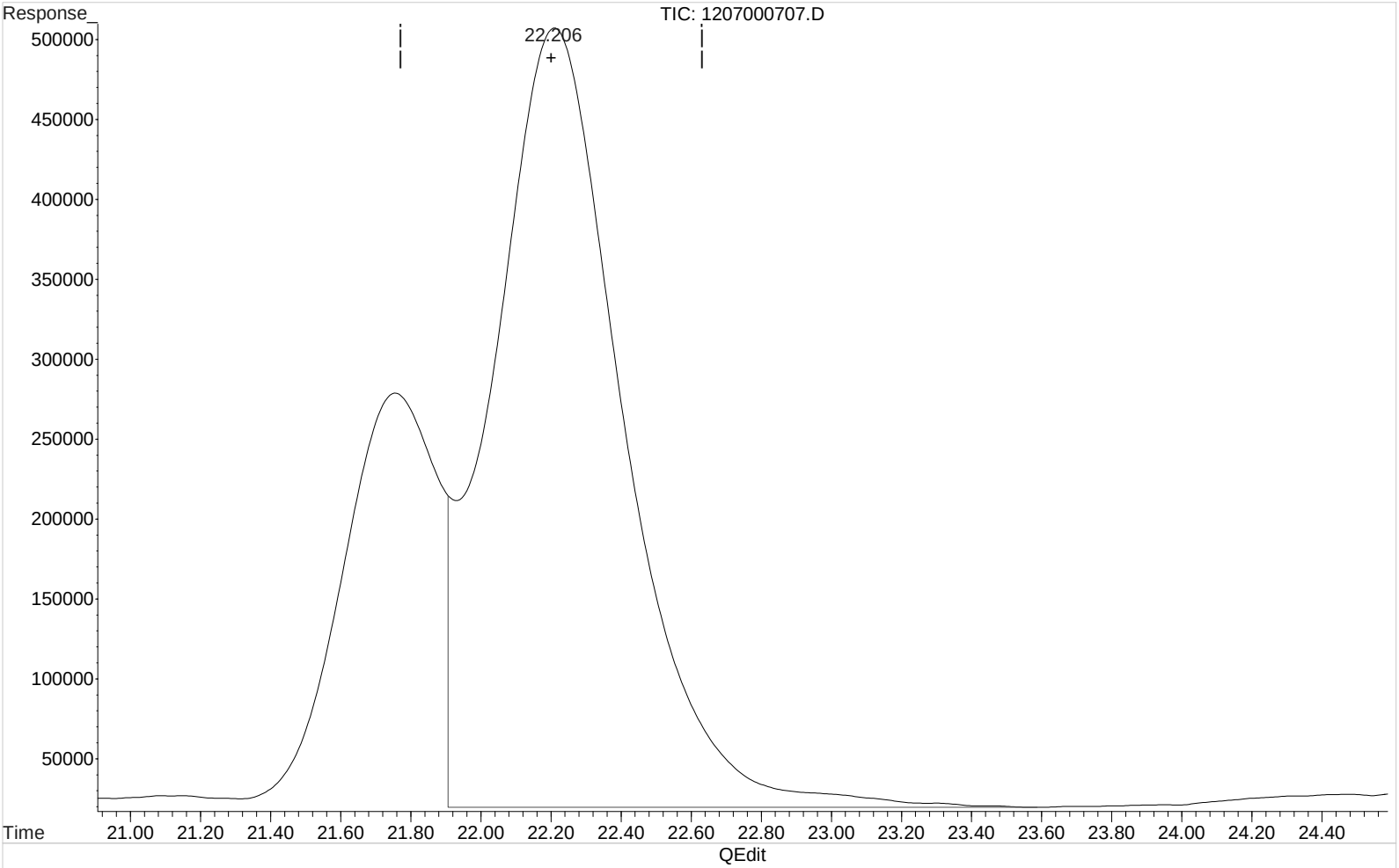
(+) = Expected Retention Time

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.206min 215.947 ug/L

response 12641702

Manual Integration:

Before

12/08/16

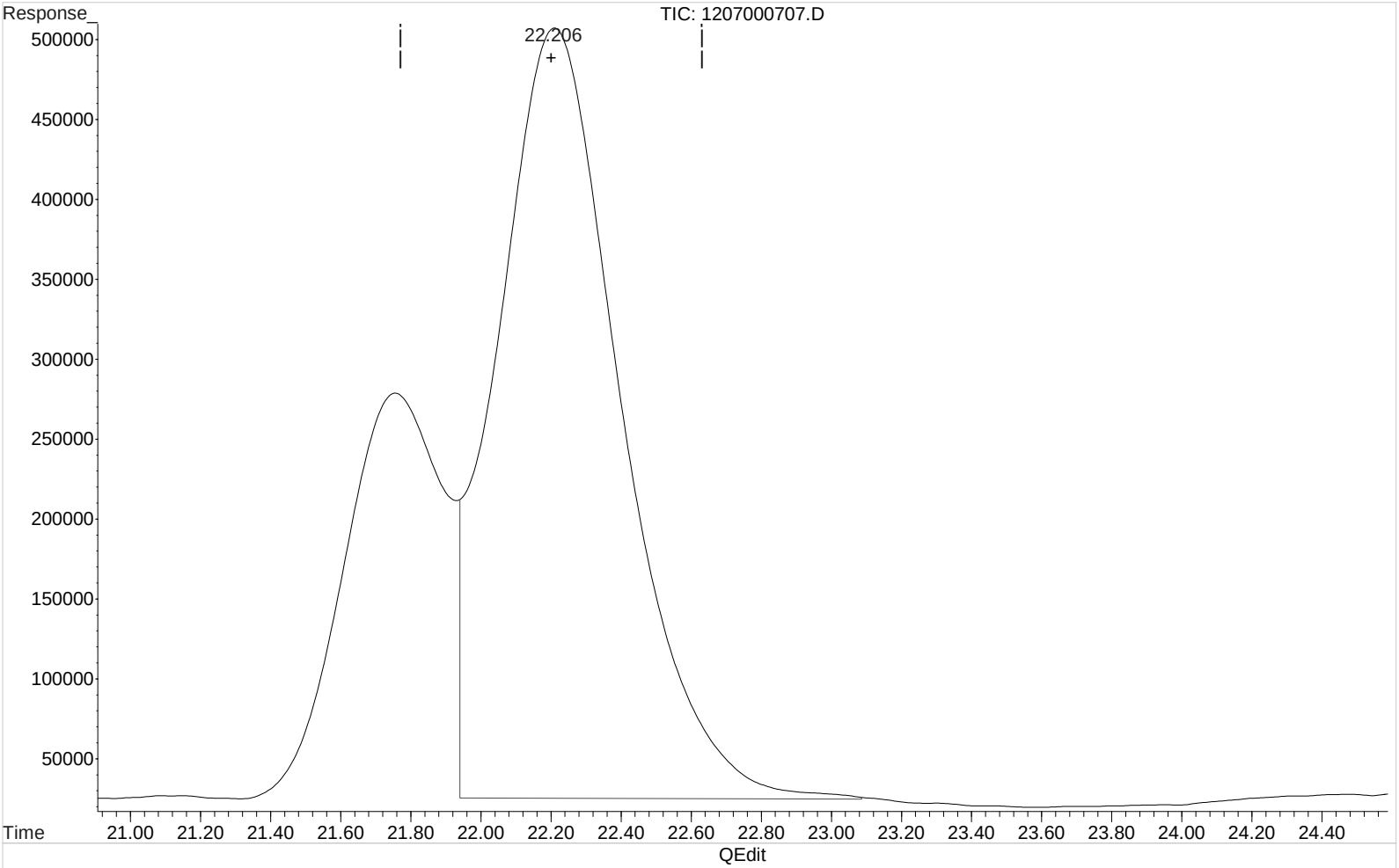
(+) = Expected Retention Time

(b) (6)
1st [redacted] 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.206min 201.727 ug/L m

response 11809220

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

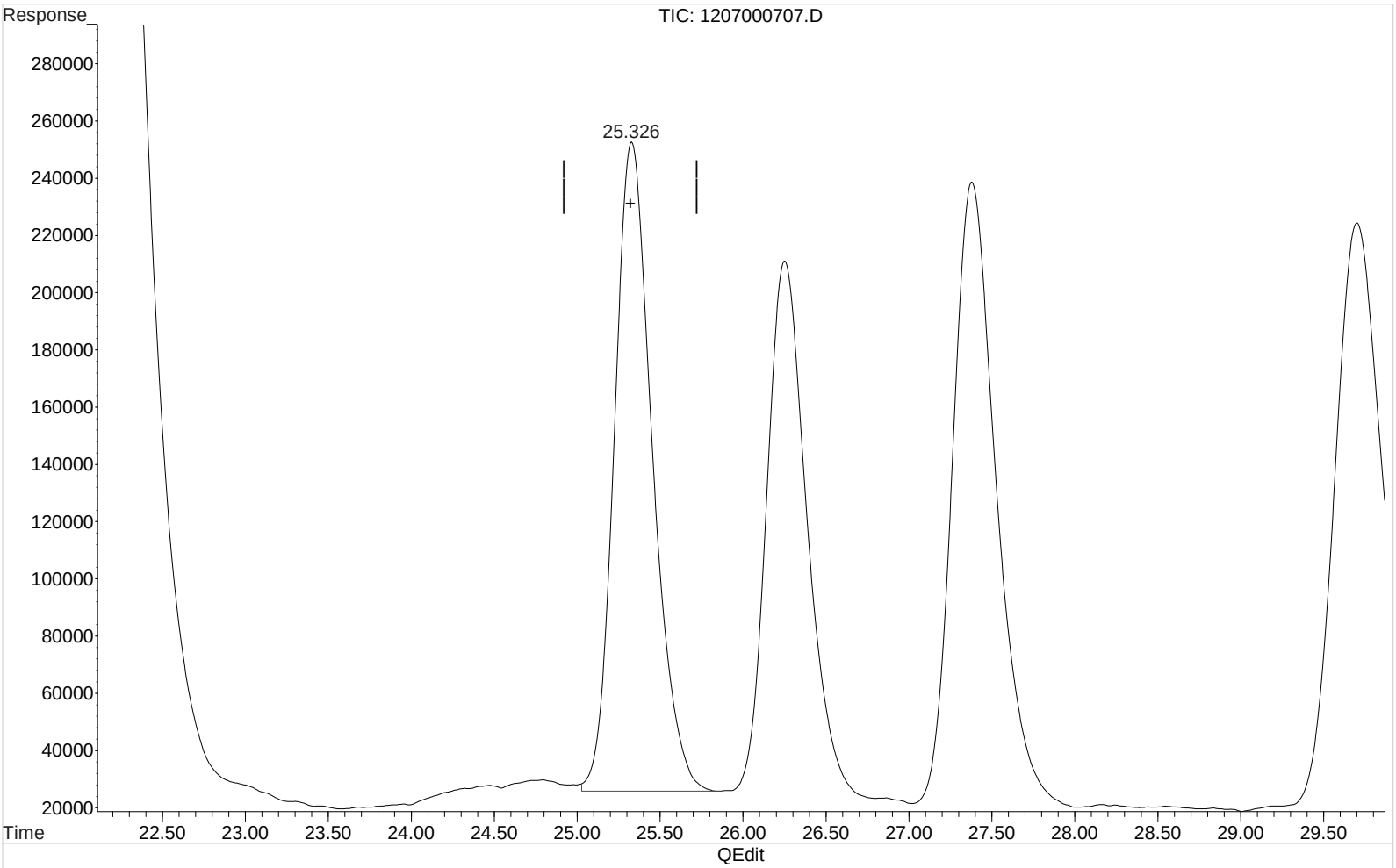
Quantitation Report (Qedit)

(b) (6)
1st 08/16
2nd 09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.326min 202.270 ug/L

response 3625509

Manual Integration:

Before

12/08/16

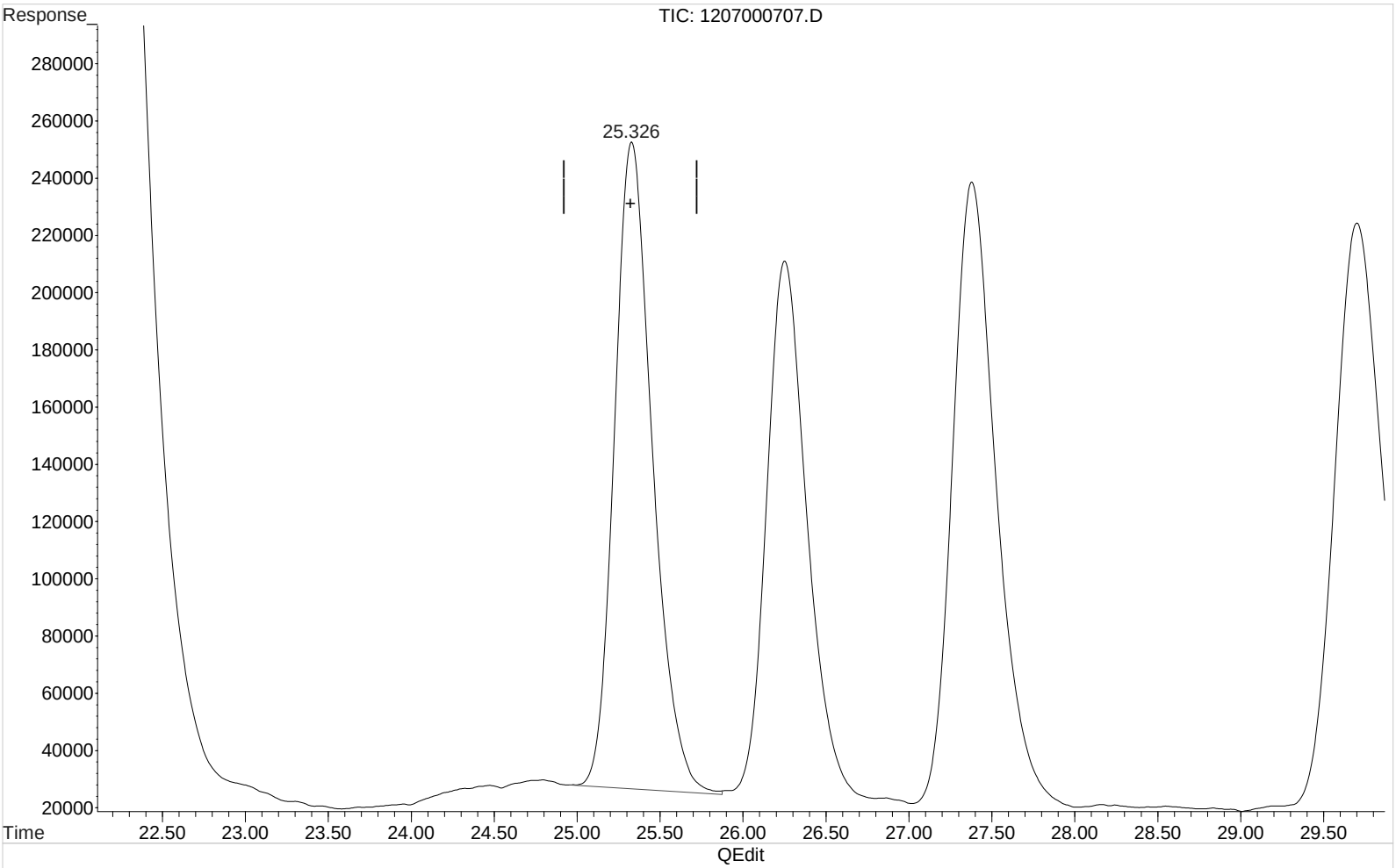
(+) = Expected Retention Time

(b) (6)
1st 12/08/16
2n 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.326min 201.453 ug/L m

response 3610858

Manual Integration:

After

BLC

12/08/16

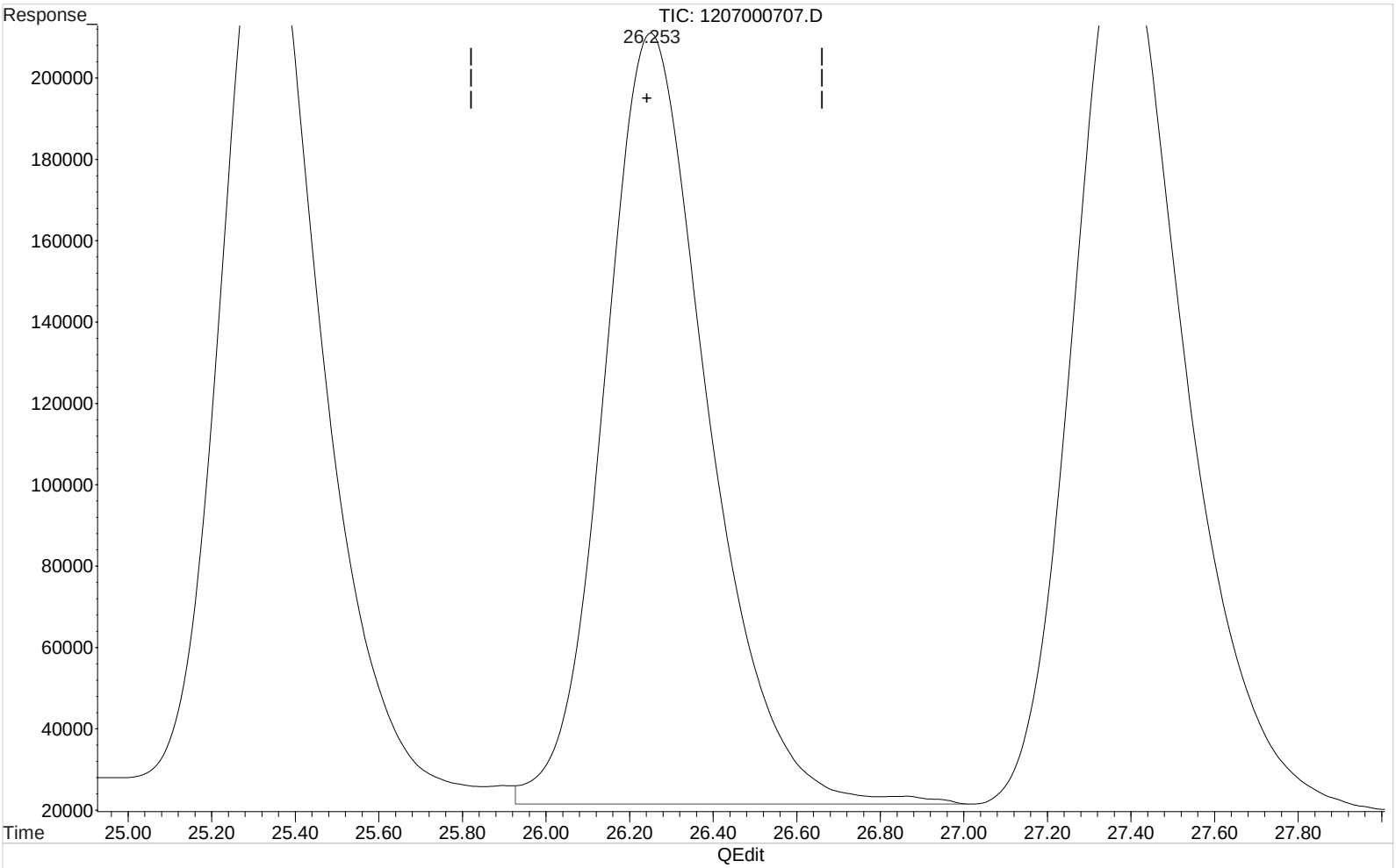
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.253min 203.164 ug/L

response 3288744

Manual Integration:

Before

12/08/16

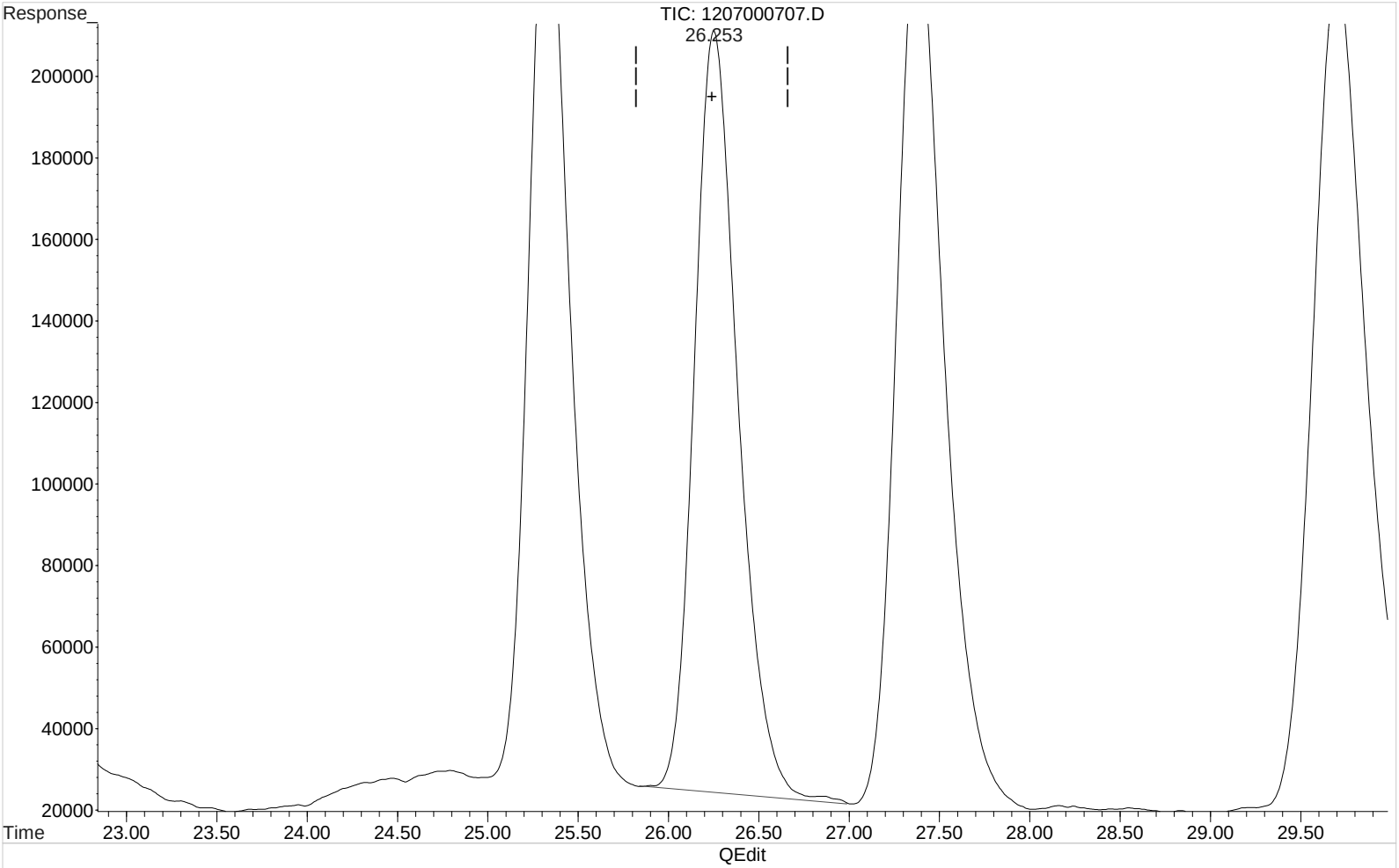
(+) = Expected Retention Time

(b) (6)
1st [redacted] 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.253min 195.125 ug/L m

response 3158608

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

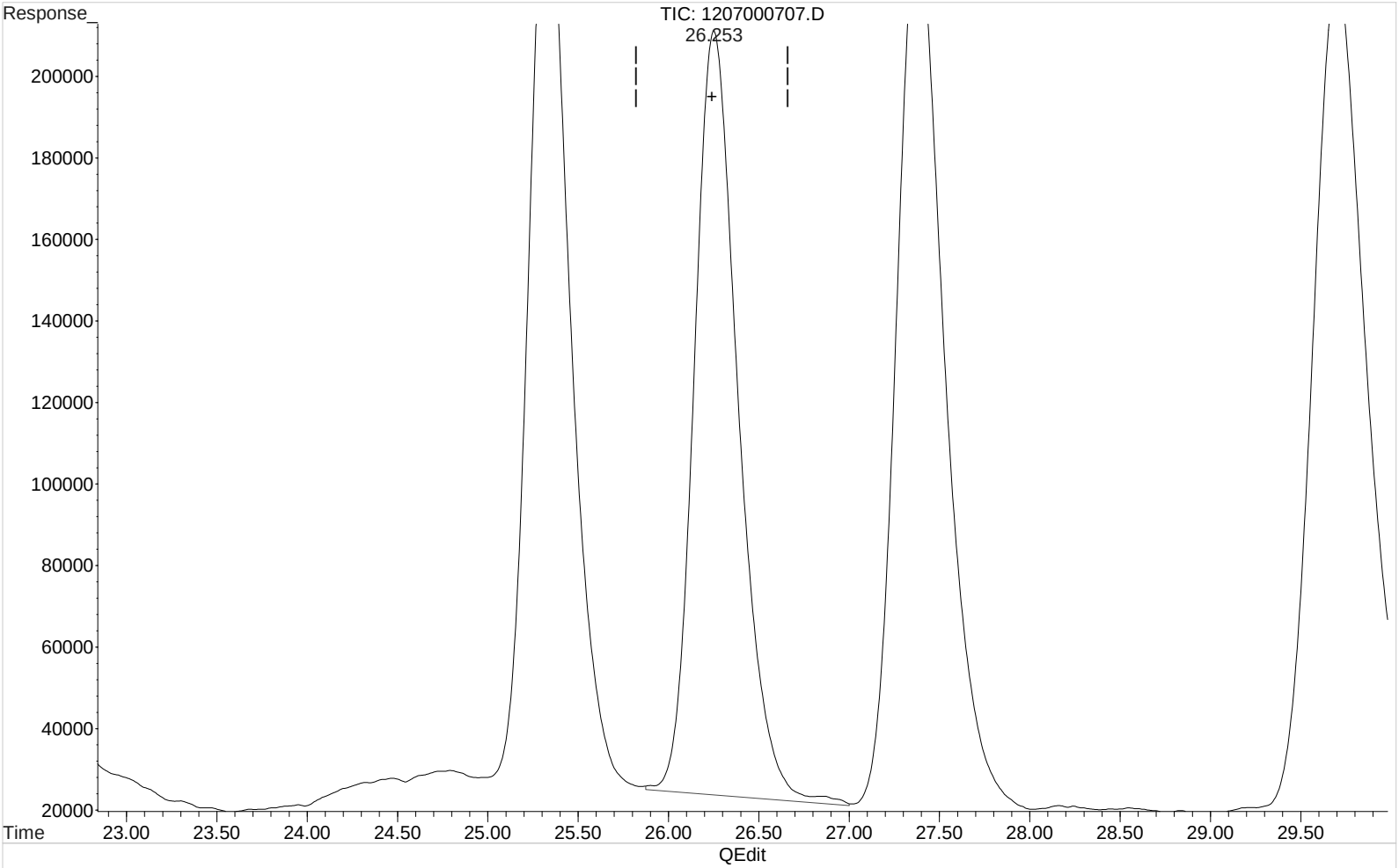
Quantitation Report (Qedit)

(b) (6)
1st 12/08/16
2n 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.253min 197.617 ug/L m

response 3198950

Manual Integration:

After

BLC

12/08/16

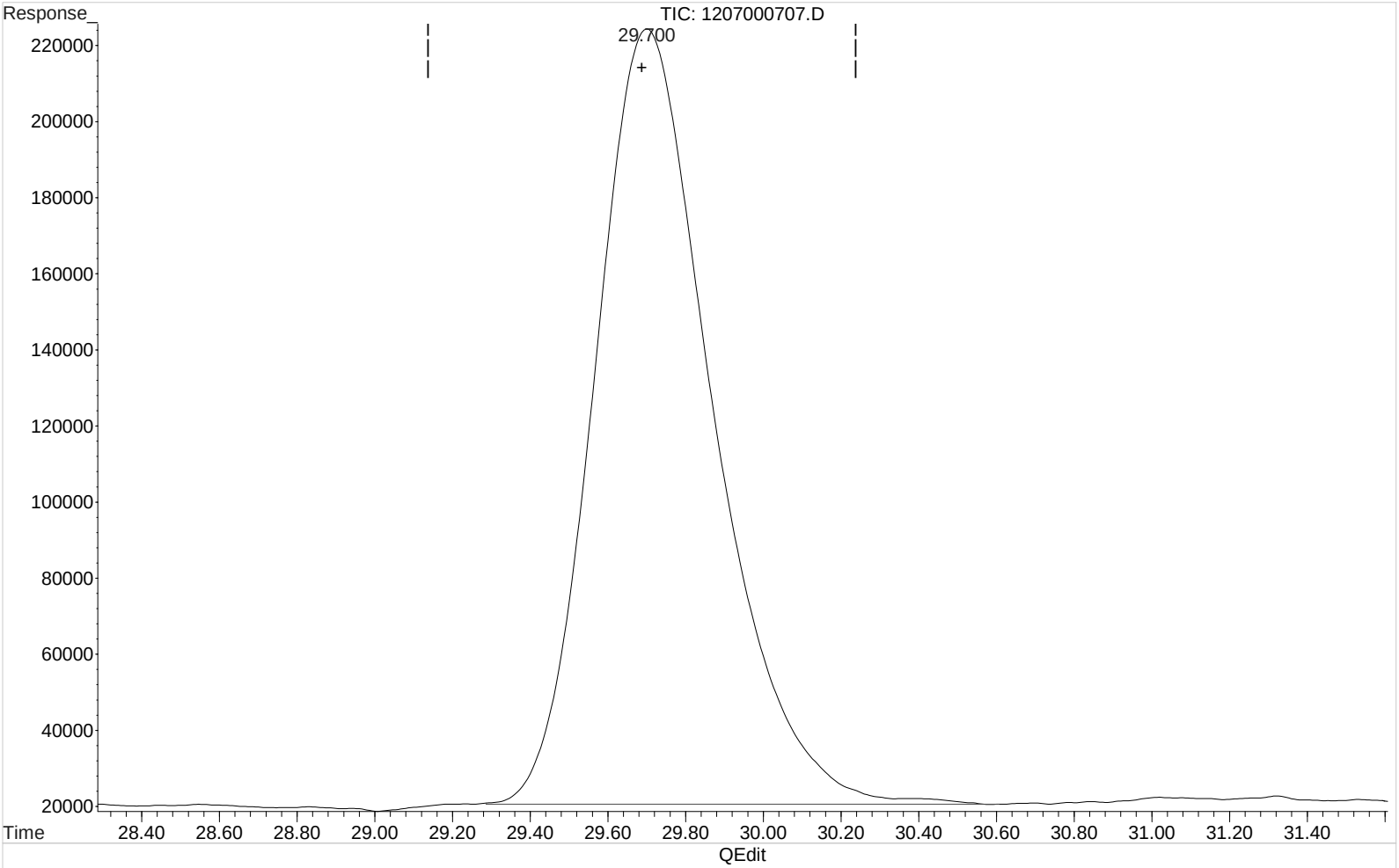
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(18) 1-Chloro-3-Nitrobenzene (S)

29.700min 192.103 ug/L

response 4312645

Manual Integration:

Before

12/08/16

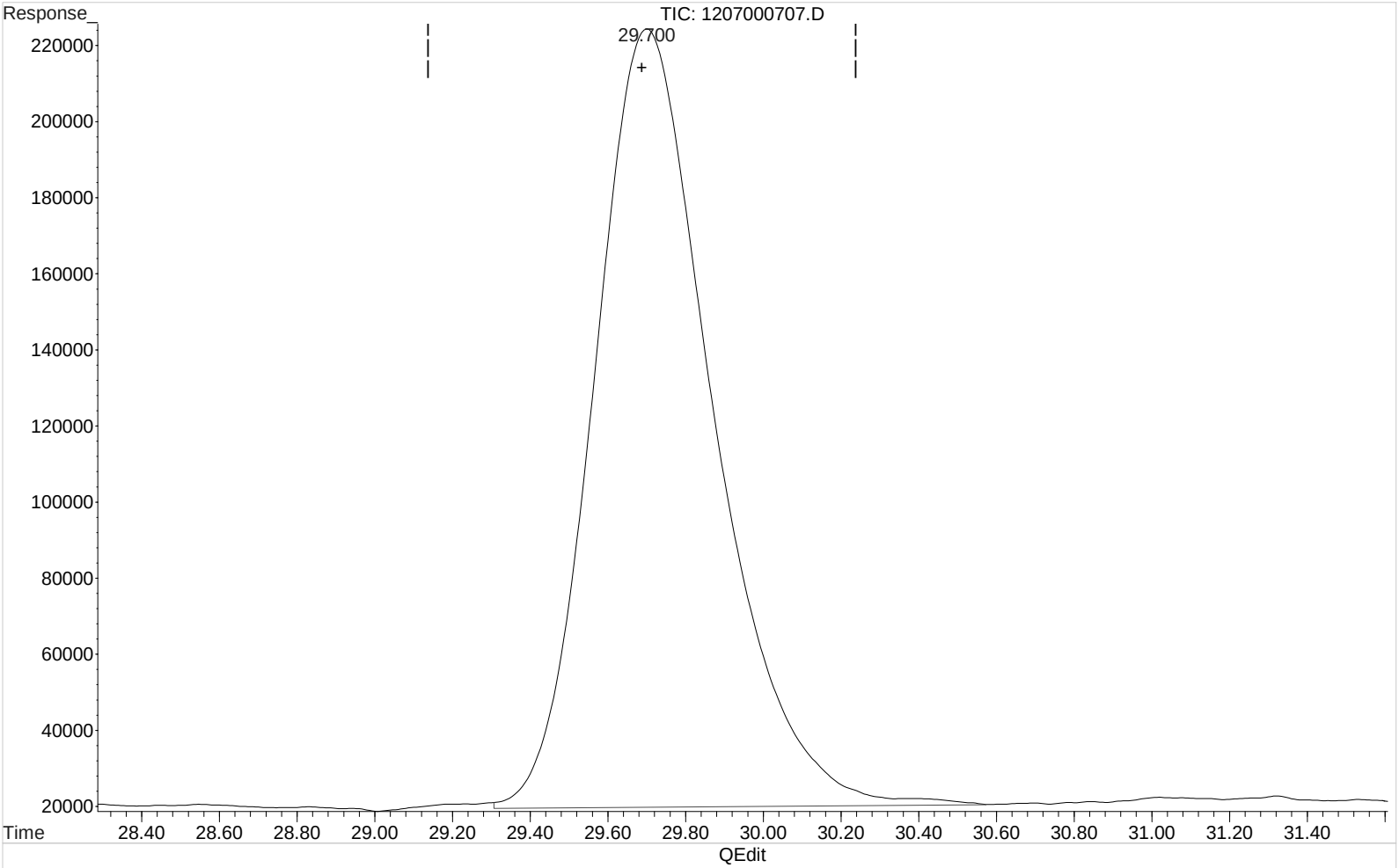
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(18) 1-Chloro-3-Nitrobenzene (S)

29.700min 194.259 ug/L m

response 4361045

Manual Integration:

After

BLC

12/08/16

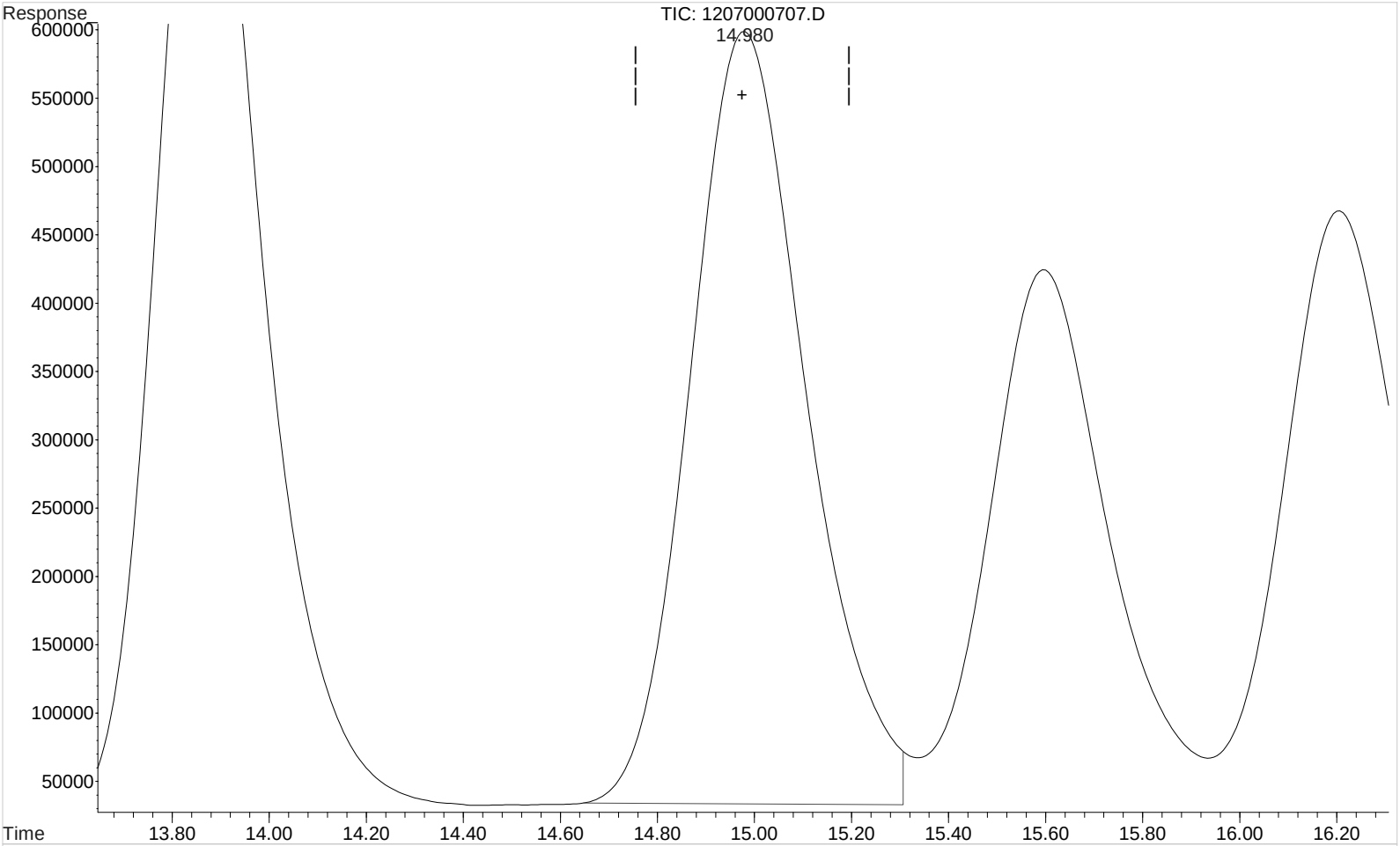
(+) = Expected Retention Time

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.980min 195.548 ug/L

response 9394960

Manual Integration:

Before

12/08/16

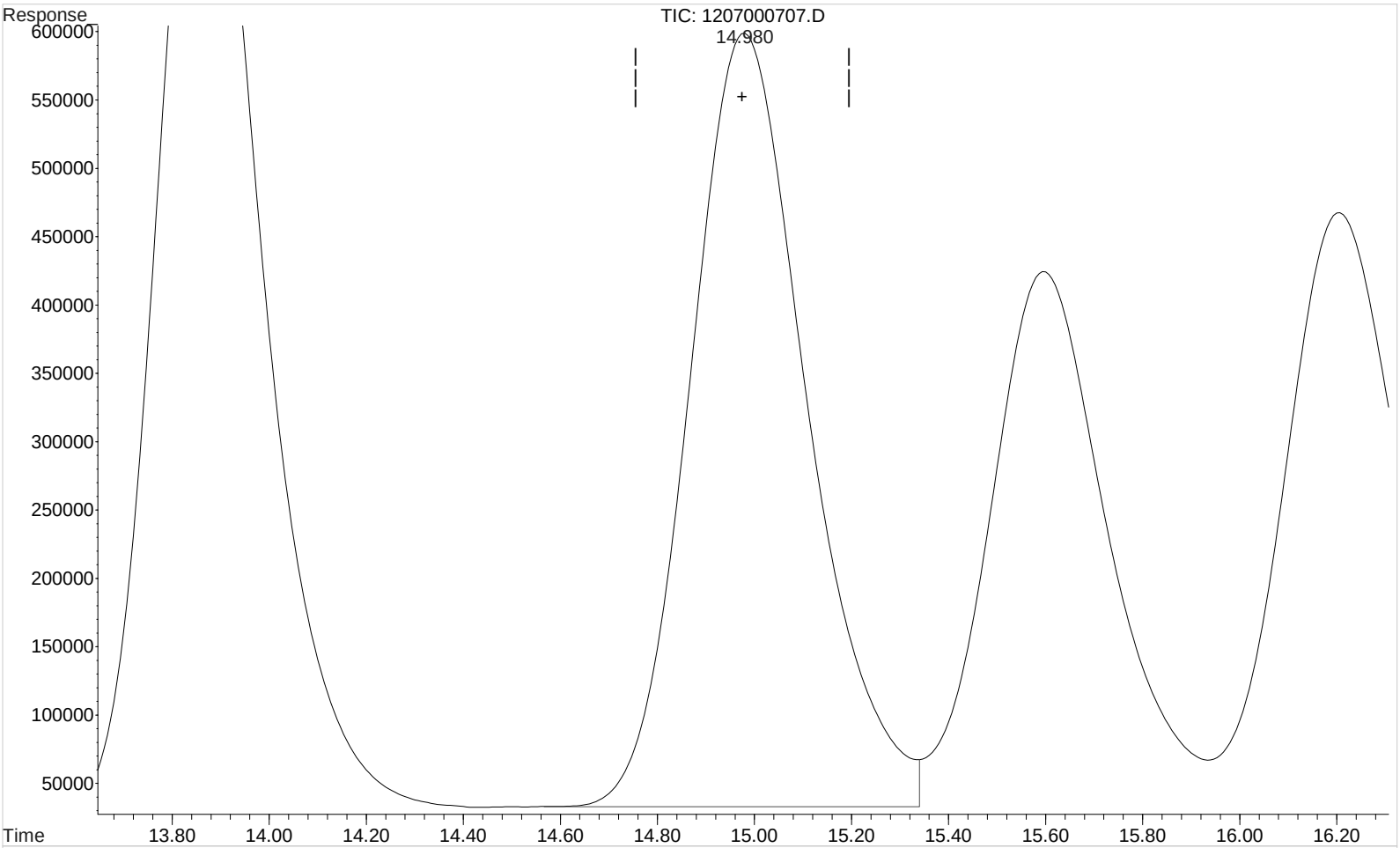
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.980min 197.468 ug/L m

response 9487220

Manual Integration:

After

BLC

12/08/16

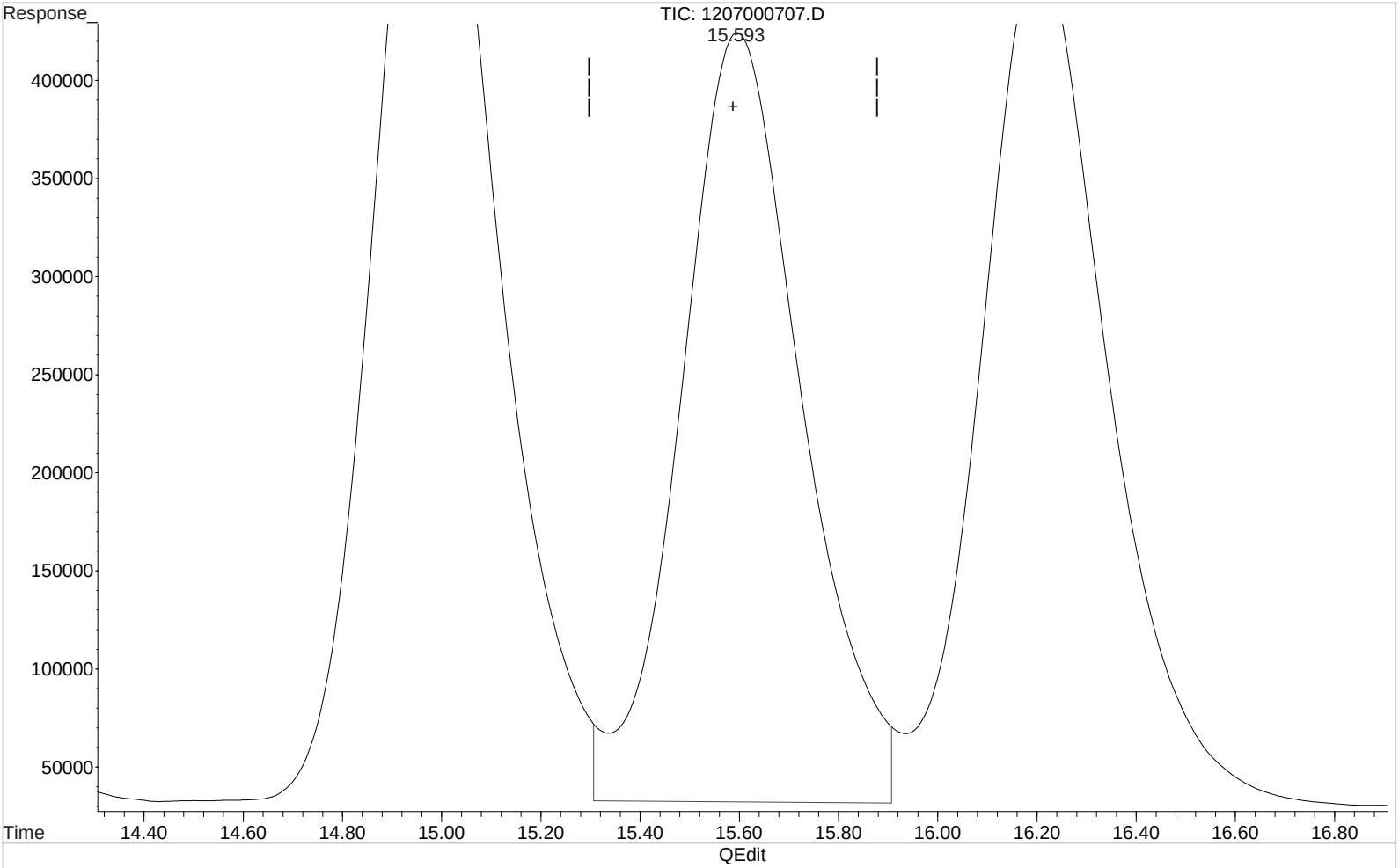
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.593min 196.528 ug/L

response 6600222

Manual Integration:

Before

12/08/16

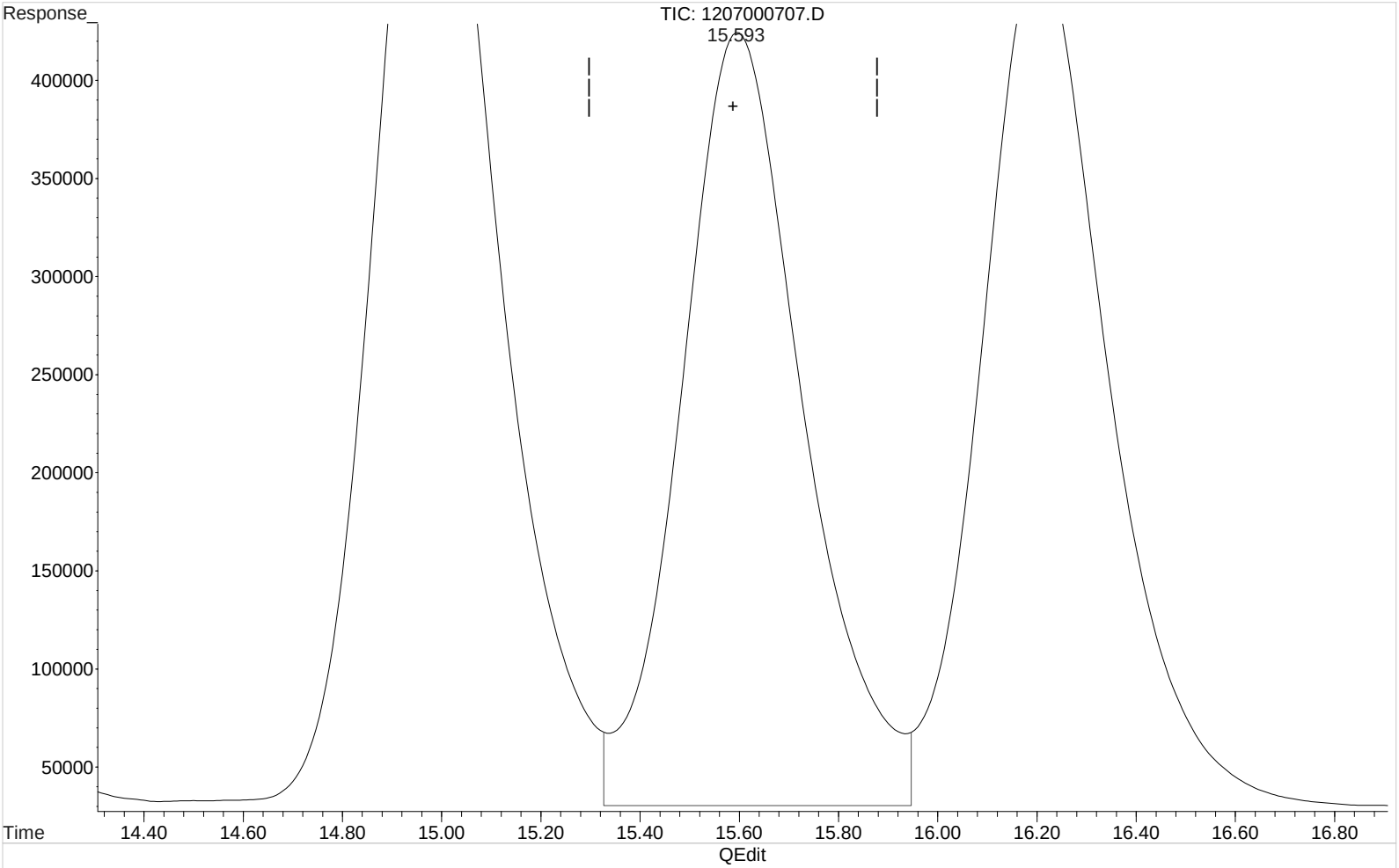
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.593min 199.929 ug/L m

response 6714428

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b)(6)

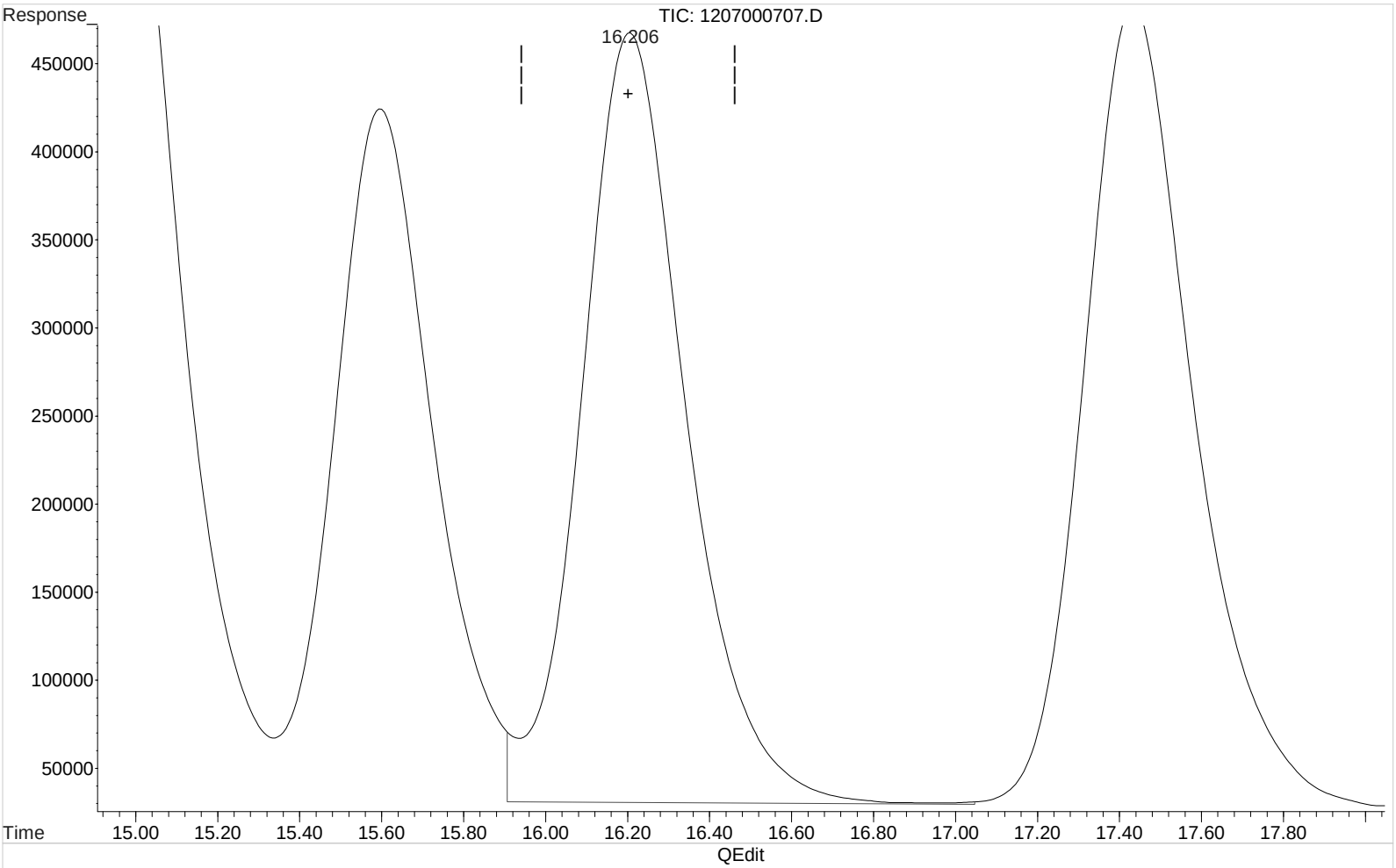
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(9) Nitrobenzene (T)

16.206min 198.294 ug/L

response 7713338

Manual Integration:

Before

12/08/16

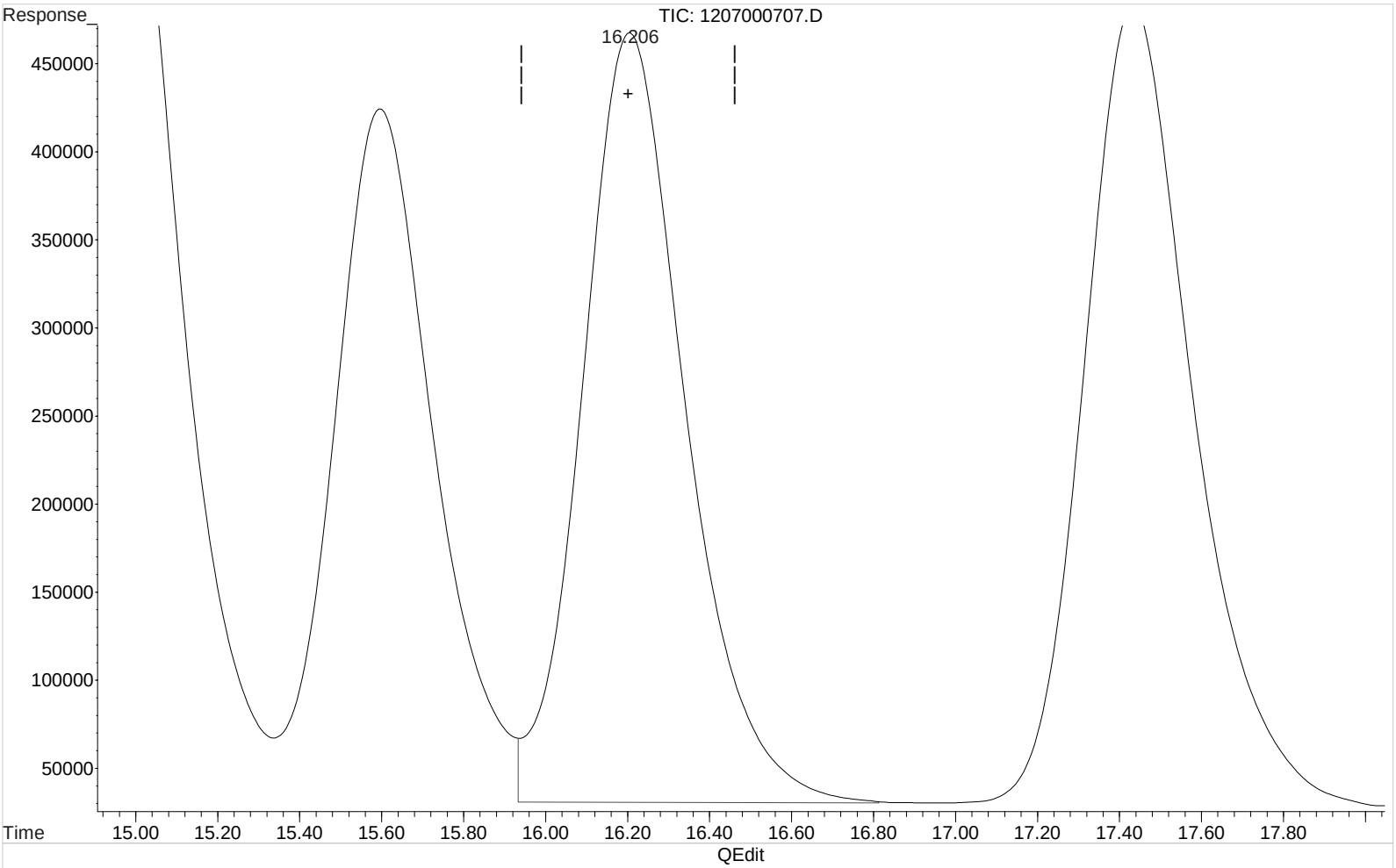
(+) = Expected Retention Time

1st (b) (6) 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.206min 196.210 ug/L m

response 7632300

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:15:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
18) S	1-Chloro-3-Nitrobenzene	29.705	10886437	488.432	ug/L	
	Target Compounds					
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2) T	HMX	4.785	6056374	506.562	ug/L	
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4) T	RDX	8.379	10003709	499.846	ug/L	
5) T	1,3,5-TNB	10.519	22540023	501.855	ug/L	
6) T	1,3-DNB	13.859	30302928	496.719	ug/L	
7) T	3,5-Dinitroaniline	14.965	24125484	503.745	ug/L	
8) T	Tetryl	15.585	16812702	500.659	ug/L	
9) T	Nitrobenzene	16.192	19511965	503.999	ug/L	
10) T	2,4,6-TNT	17.439	21176168	511.931	ug/L	
11) T	4-Amino-2,6-DNT	19.192	14984390	512.669	ug/L	
12) T	2-Amino-4,6-DNT	20.025	21286599	490.874	ug/L	
13) T	2,6-DNT	21.745	12560679	515.590	ug/L	m
14) T	2,4-DNT	22.205	29961095	510.697	ug/L	m
15) T	2-NT	25.325	9109097	507.283	ug/L	m
16) T	4-NT	26.252	8010069	496.306	ug/L	m
17) T	3-NT	27.379	10130589	501.548	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:15:58 2016
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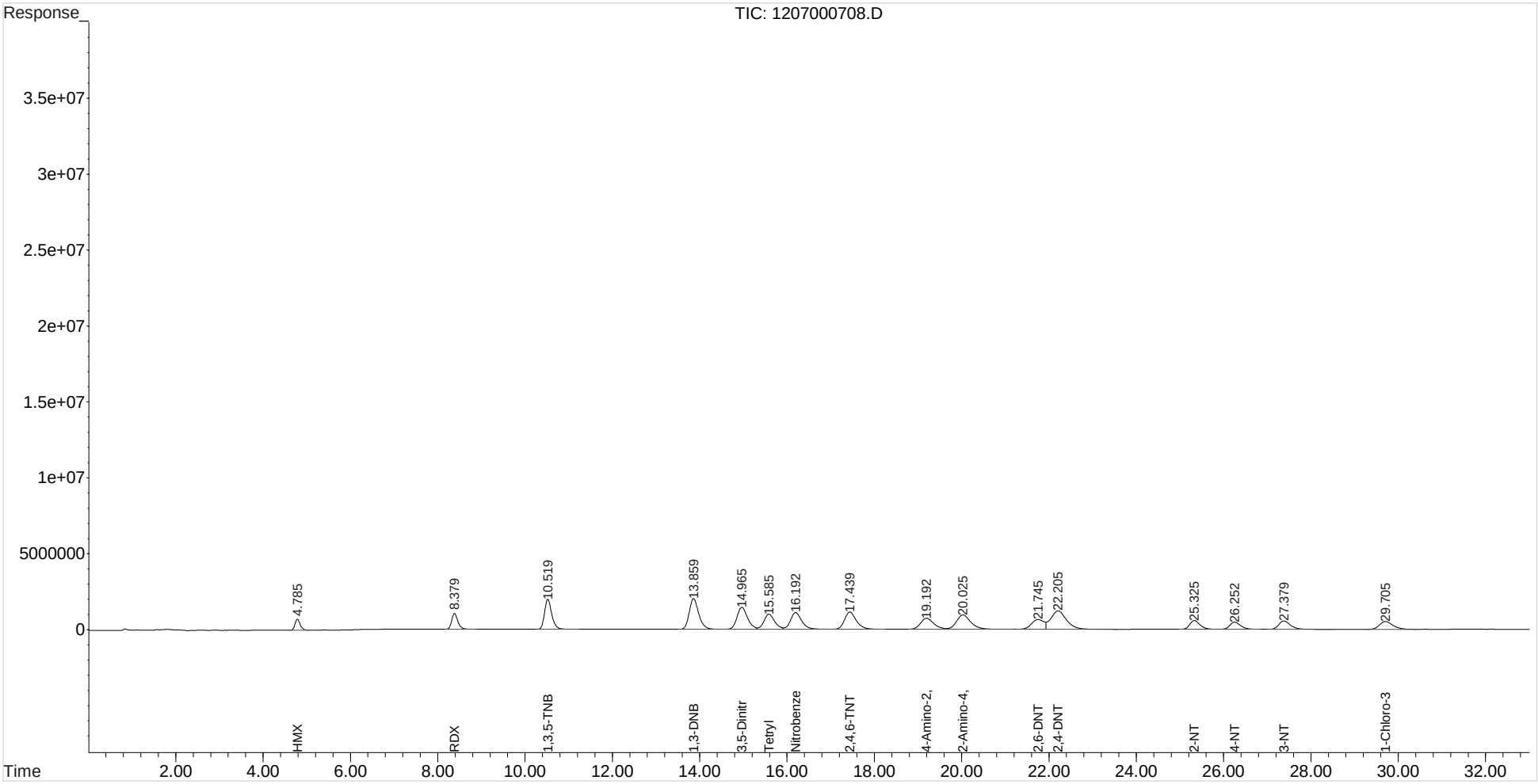
Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

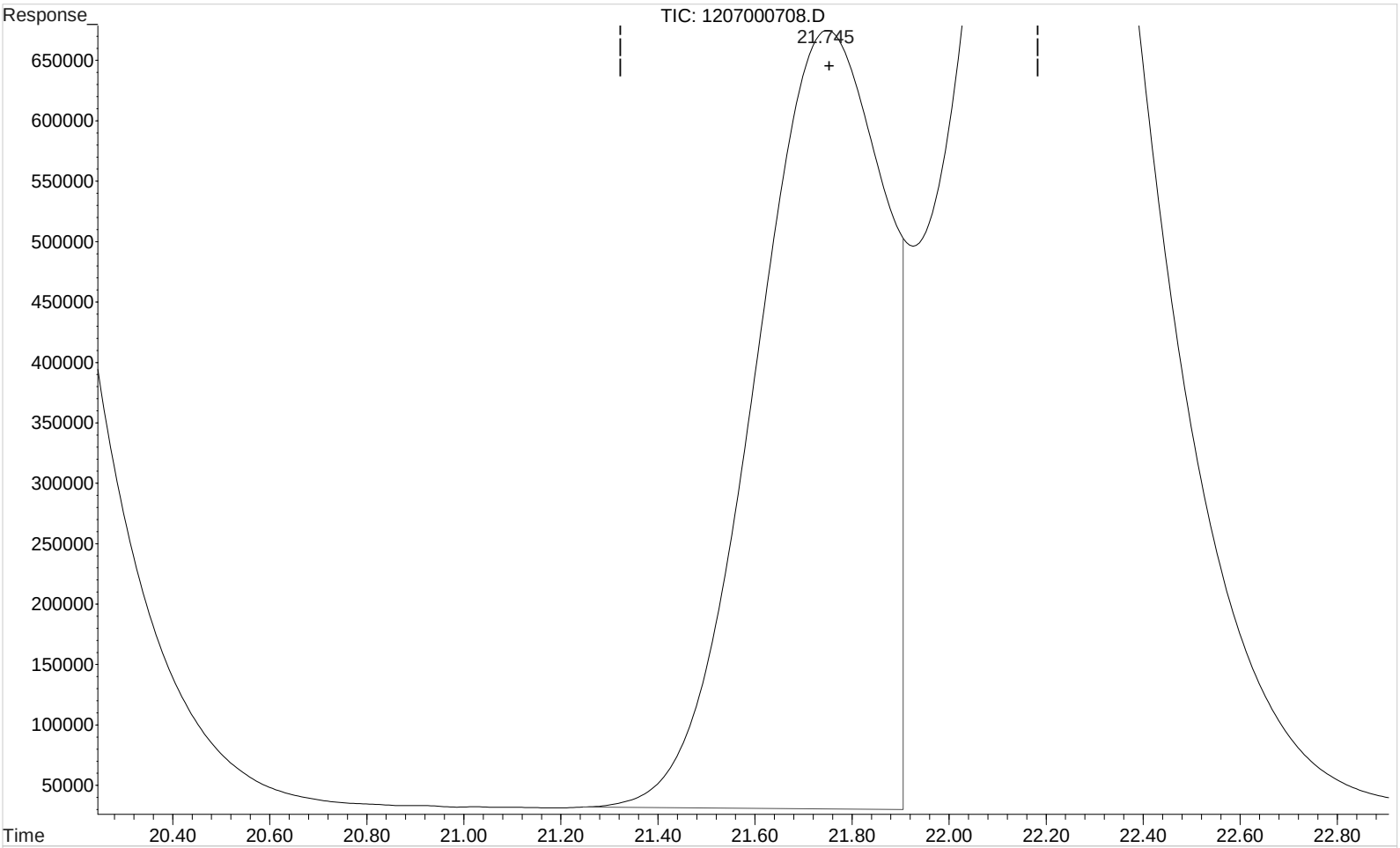


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.745min 493.038 ug/L

response 12011281

Manual Integration:

Before

12/08/16

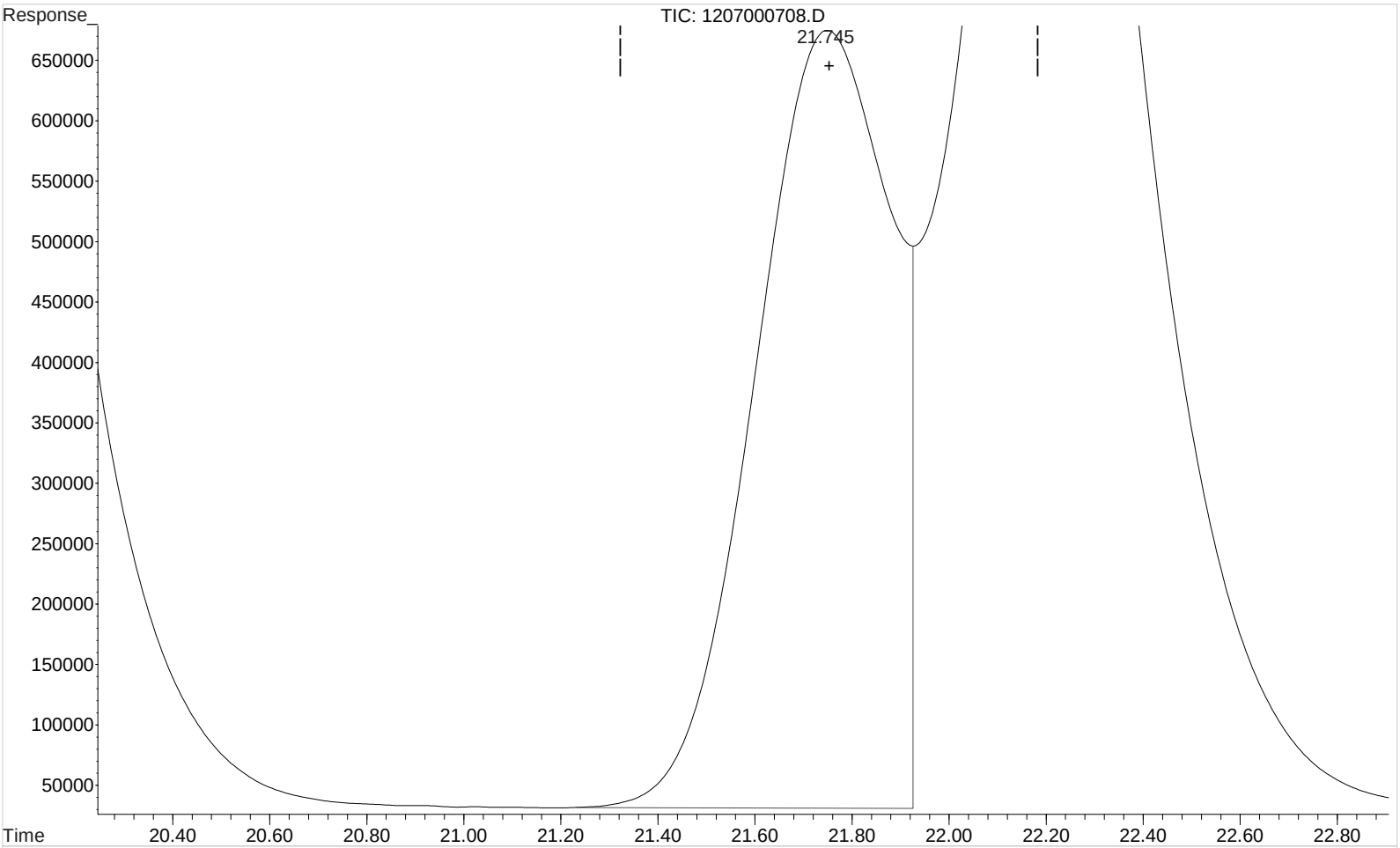
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.745min 515.590 ug/L m

response 12560679

Manual Integration:

After

BLC

12/08/16

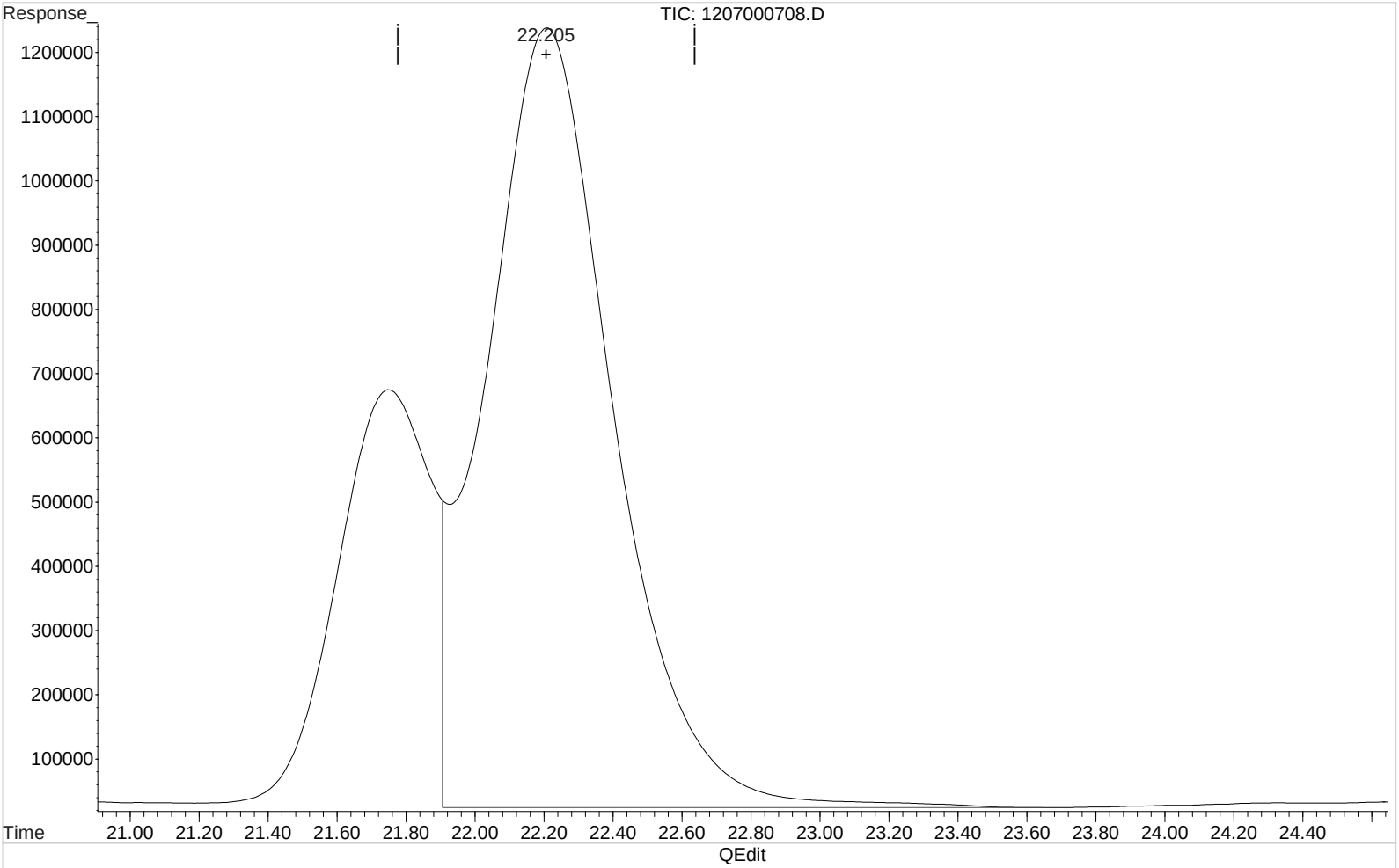
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.205min 531.088 ug/L

response 31157389

Manual Integration:

Before

12/08/16

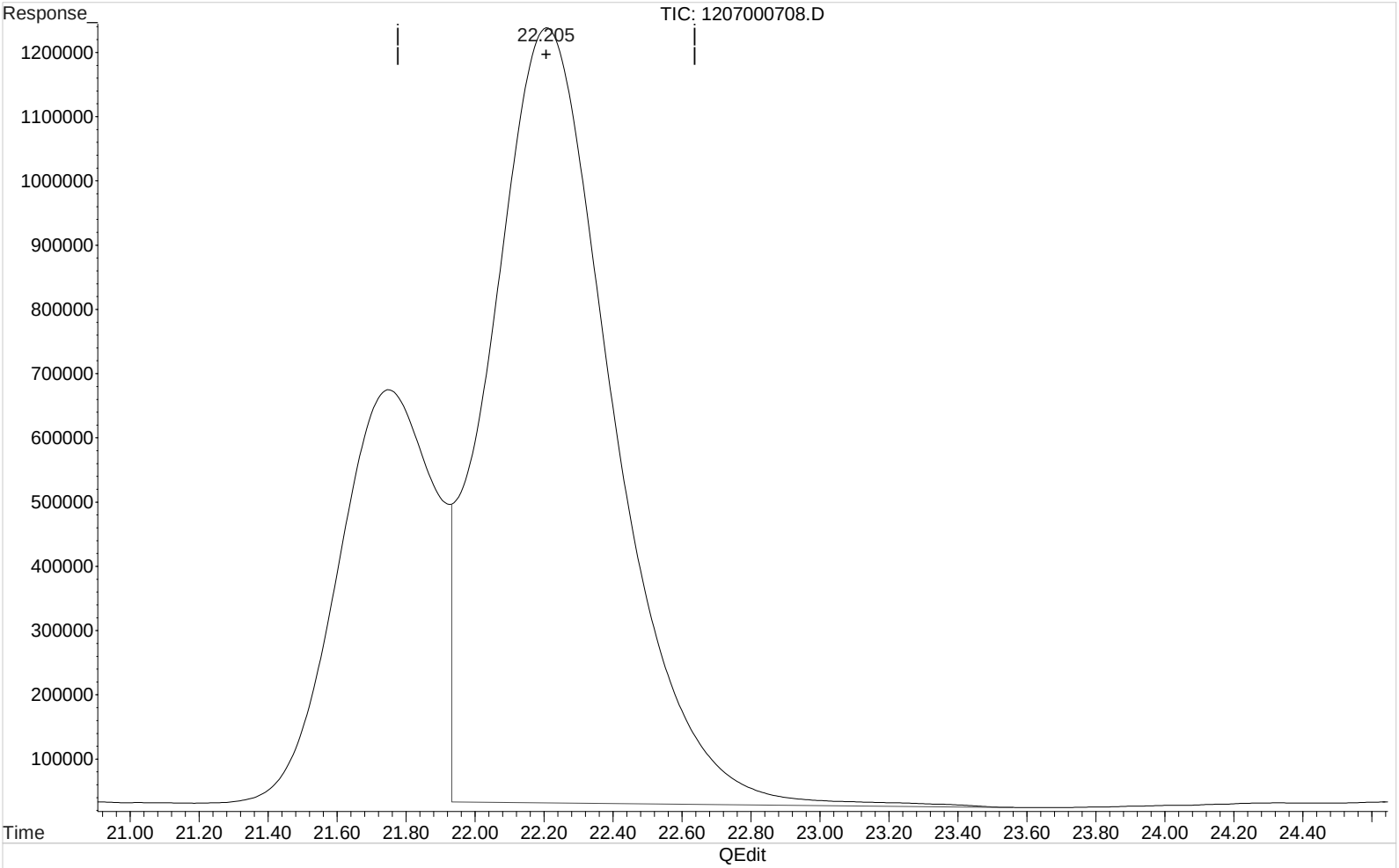
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.205min 510.697 ug/L m

response 29961095

Manual Integration:

After

BLC

12/08/16

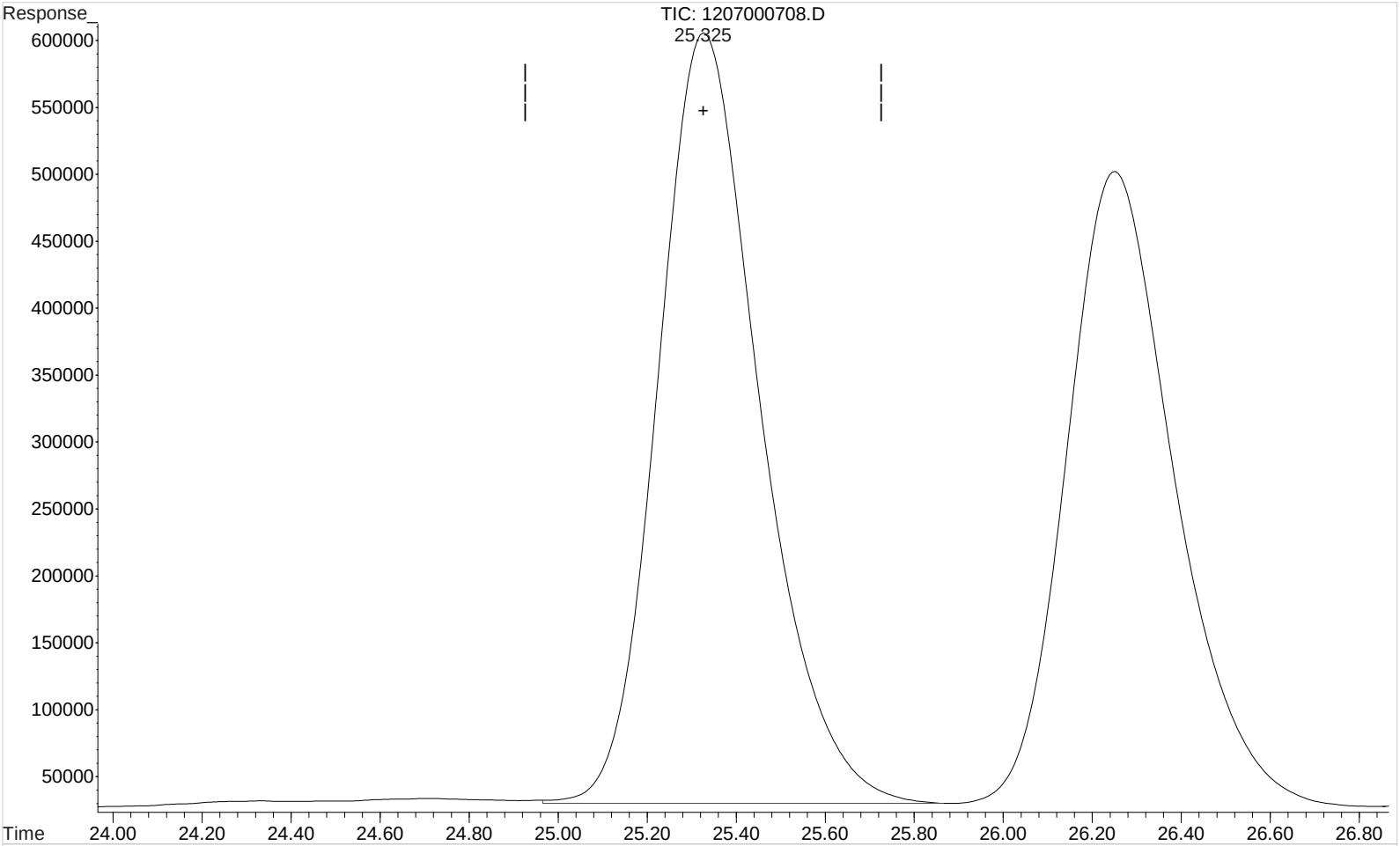
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.325min 510.734 ug/L

response 9171057

Manual Integration:

Before

12/08/16

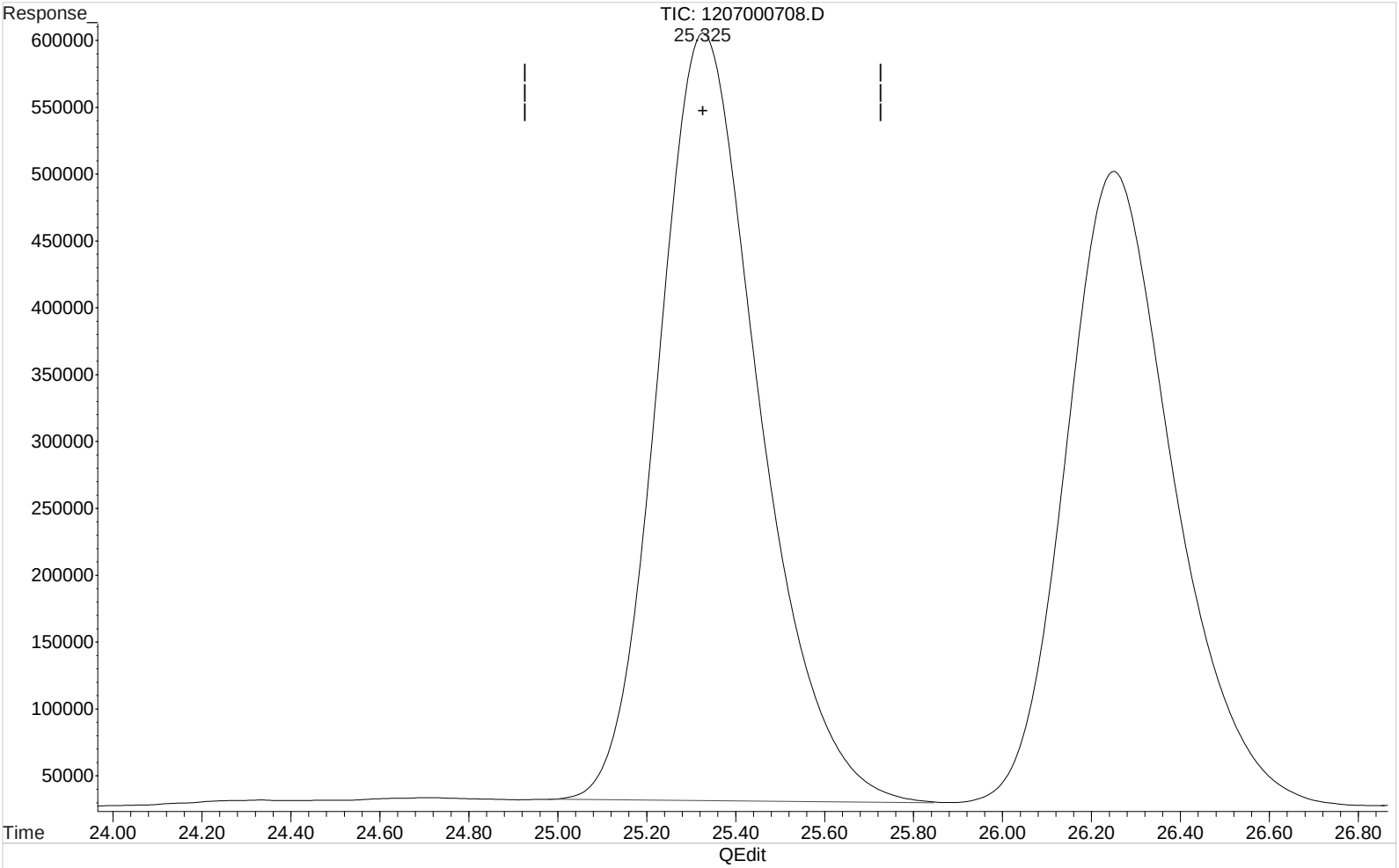
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.325min 507.283 ug/L m

response 9109097

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
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Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
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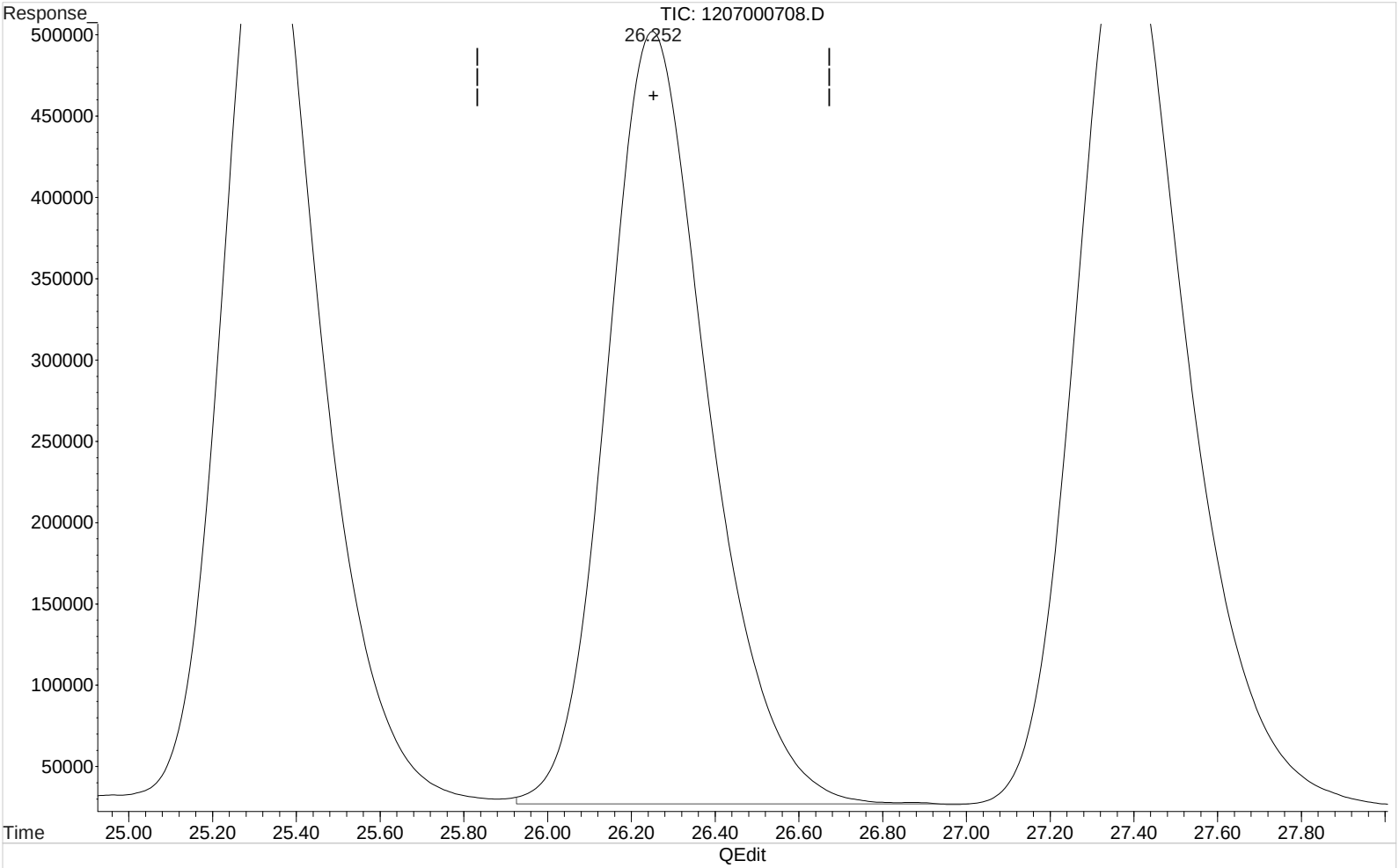
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.252min 498.182 ug/L

response 8040347

Manual Integration:

Before

12/08/16

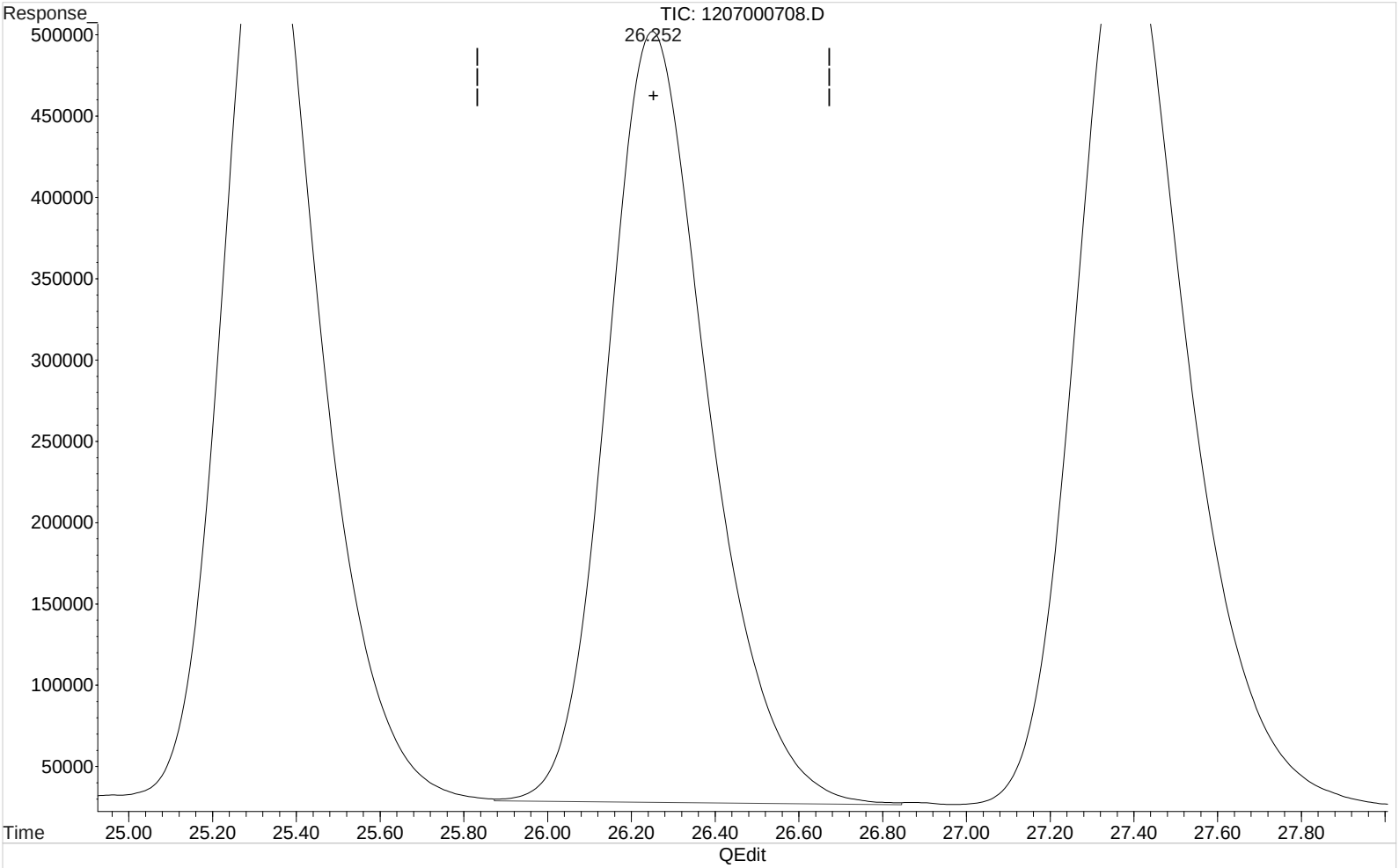
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.252min 496.306 ug/L m

response 8010069

Manual Integration:

After

BLC

12/08/16

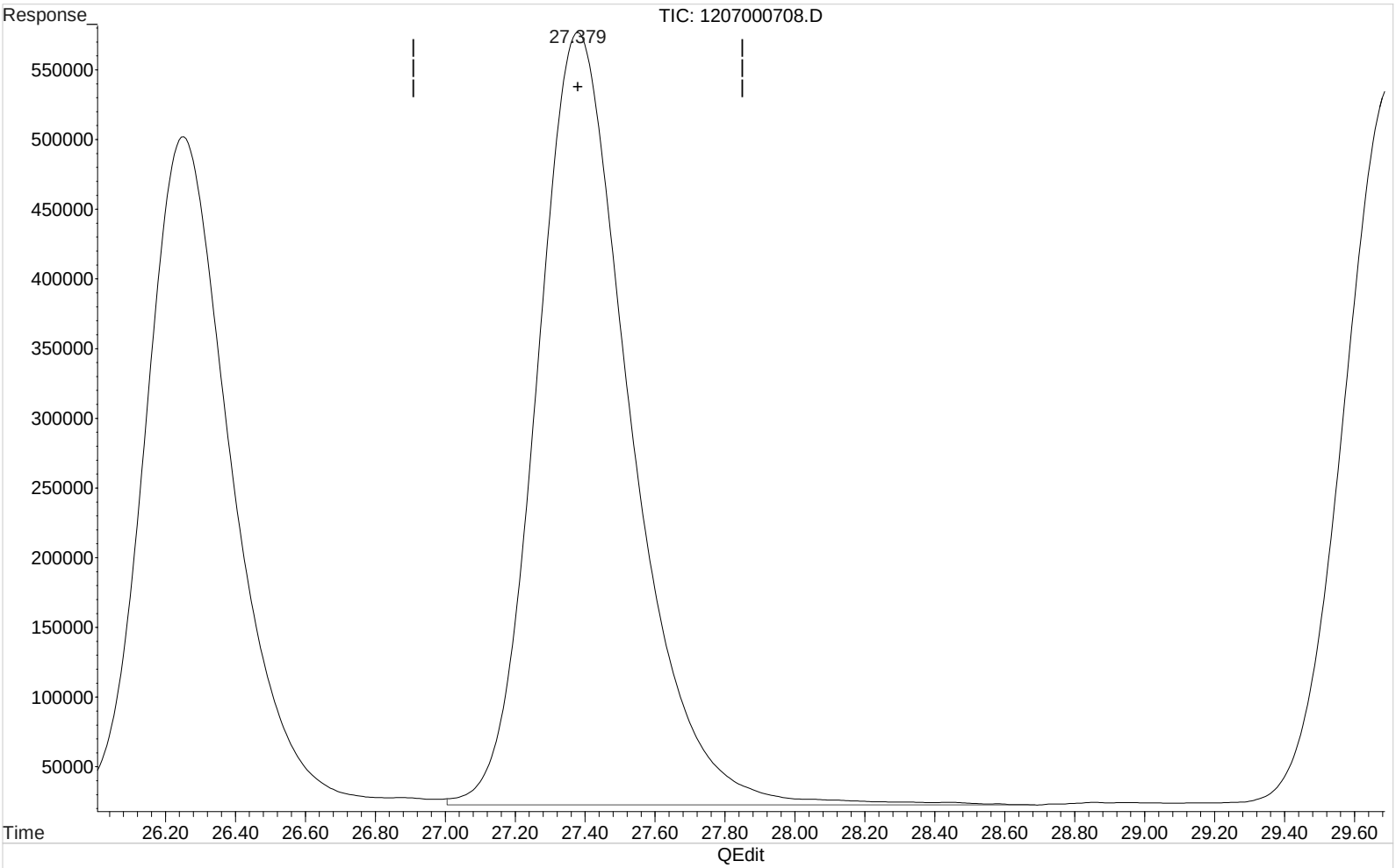
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(17) 3-NT (T)

27.379min 512.791 ug/L

response 10357684

Manual Integration:

Before

12/08/16

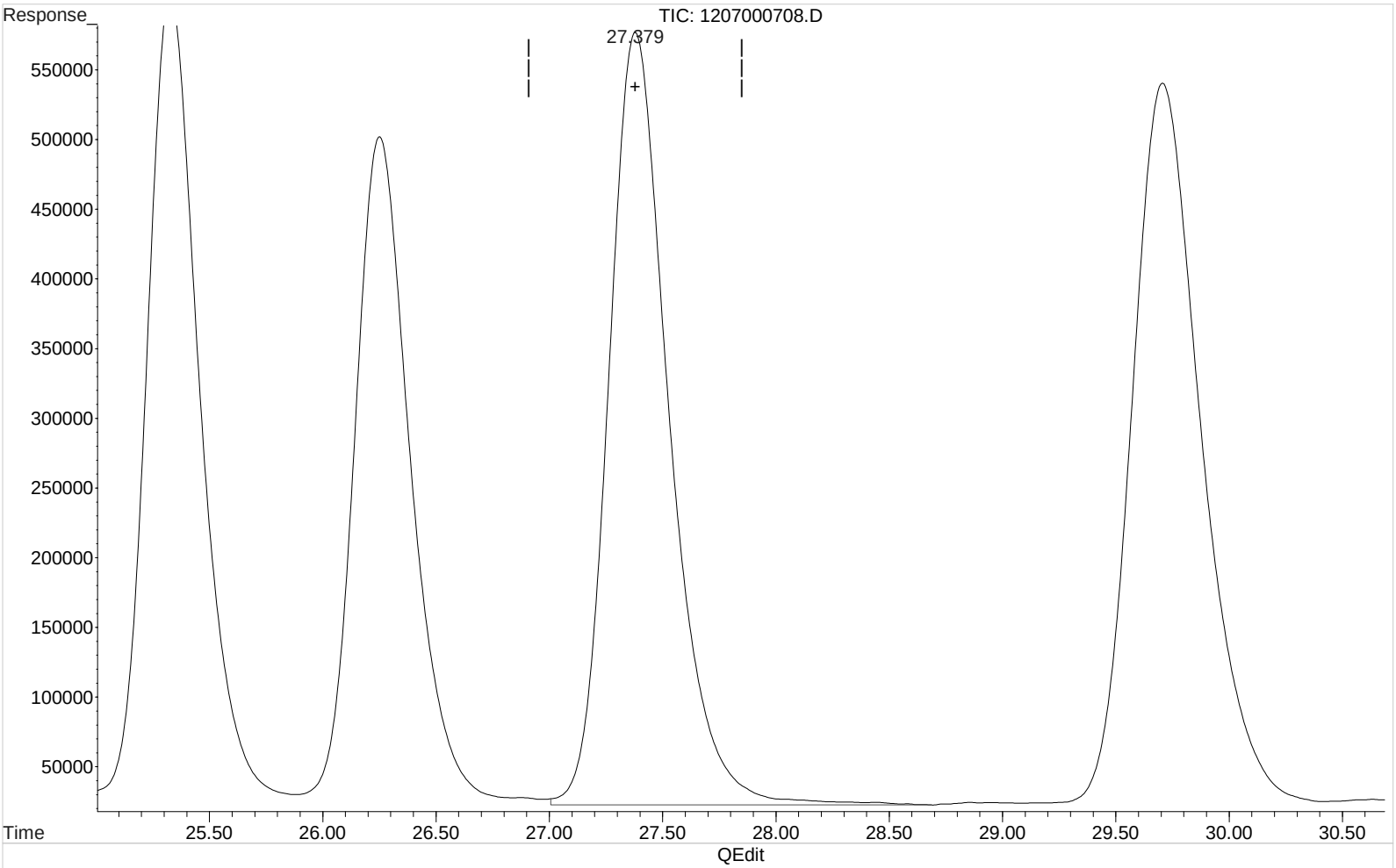
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.379min 512.791 ug/L

response 10357684

Manual Integration:

Before

12/08/16

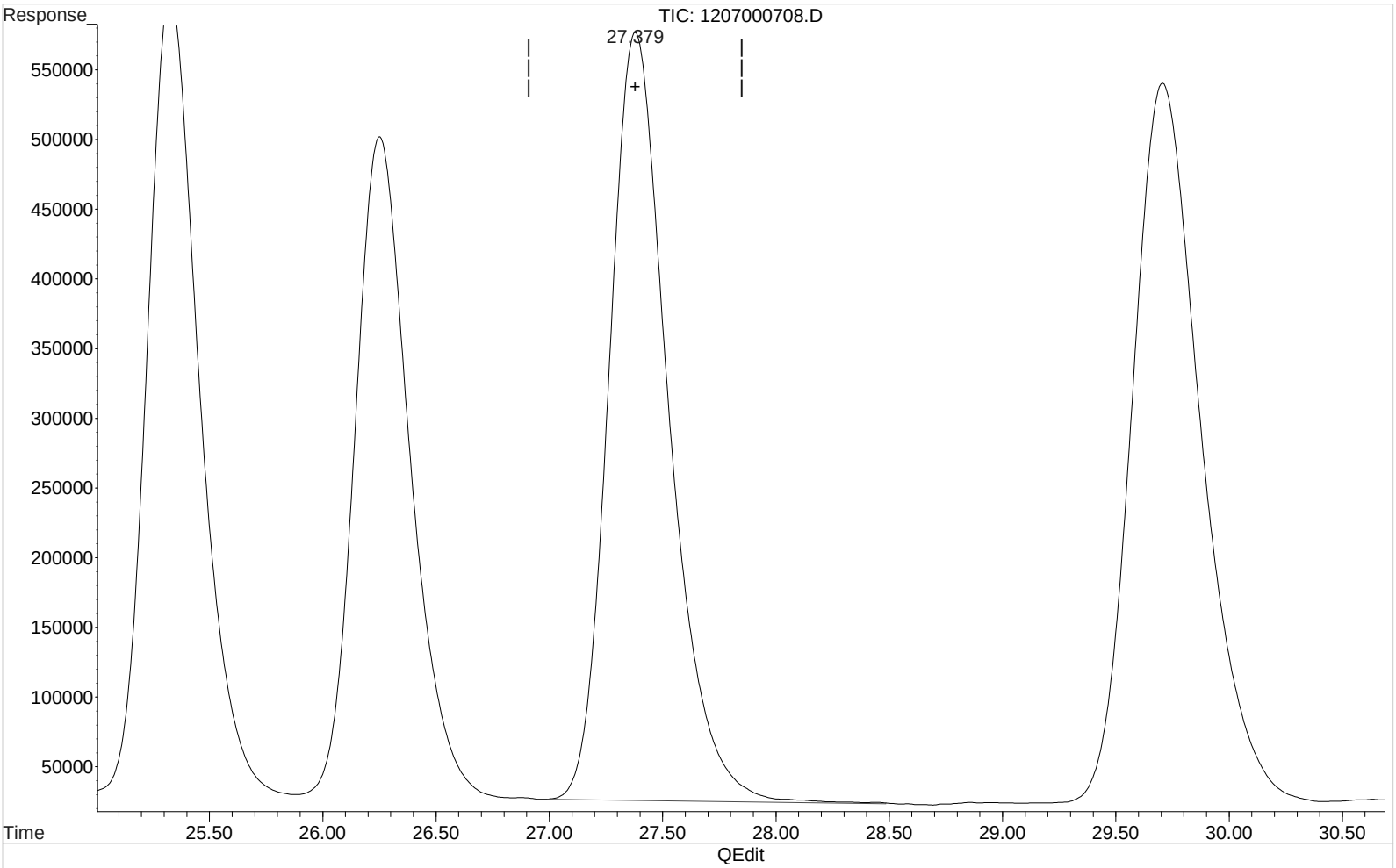
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.379min 501.548 ug/L m

response 10130589

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000709.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:17:24 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:16:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
18)	S	1-Chloro-3-Nitrobenzene	29.704	21424748	965.714	ug/L	
		Target Compounds					
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	4.784	11949913	996.887	ug/L	
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	8.377	19595263	979.158	ug/L	
5)	T	1,3,5-TNB	10.517	44322350	986.108	ug/L	
6)	T	1,3-DNB	13.864	59271553	972.844	ug/L	
7)	T	3,5-Dinitroaniline	14.970	47161666	983.273	ug/L	
8)	T	Tetryl	15.584	33058166	984.167	ug/L	
9)	T	Nitrobenzene	16.190	38294717	987.582	ug/L	
10)	T	2,4,6-TNT	17.424	41608108	1001.093	ug/L	
11)	T	4-Amino-2,6-DNT	19.184	29562551	1006.339	ug/L	
12)	T	2-Amino-4,6-DNT	20.017	41752958	966.360	ug/L	
13)	T	2,6-DNT	21.744	24453723	997.554	ug/L	m
14)	T	2,4-DNT	22.204	58902914	999.743	ug/L	m
15)	T	2-NT	25.324	17886628	993.209	ug/L	
16)	T	4-NT	26.244	15580571	966.804	ug/L	
17)	T	3-NT	27.377	20277426	1003.280	ug/L	

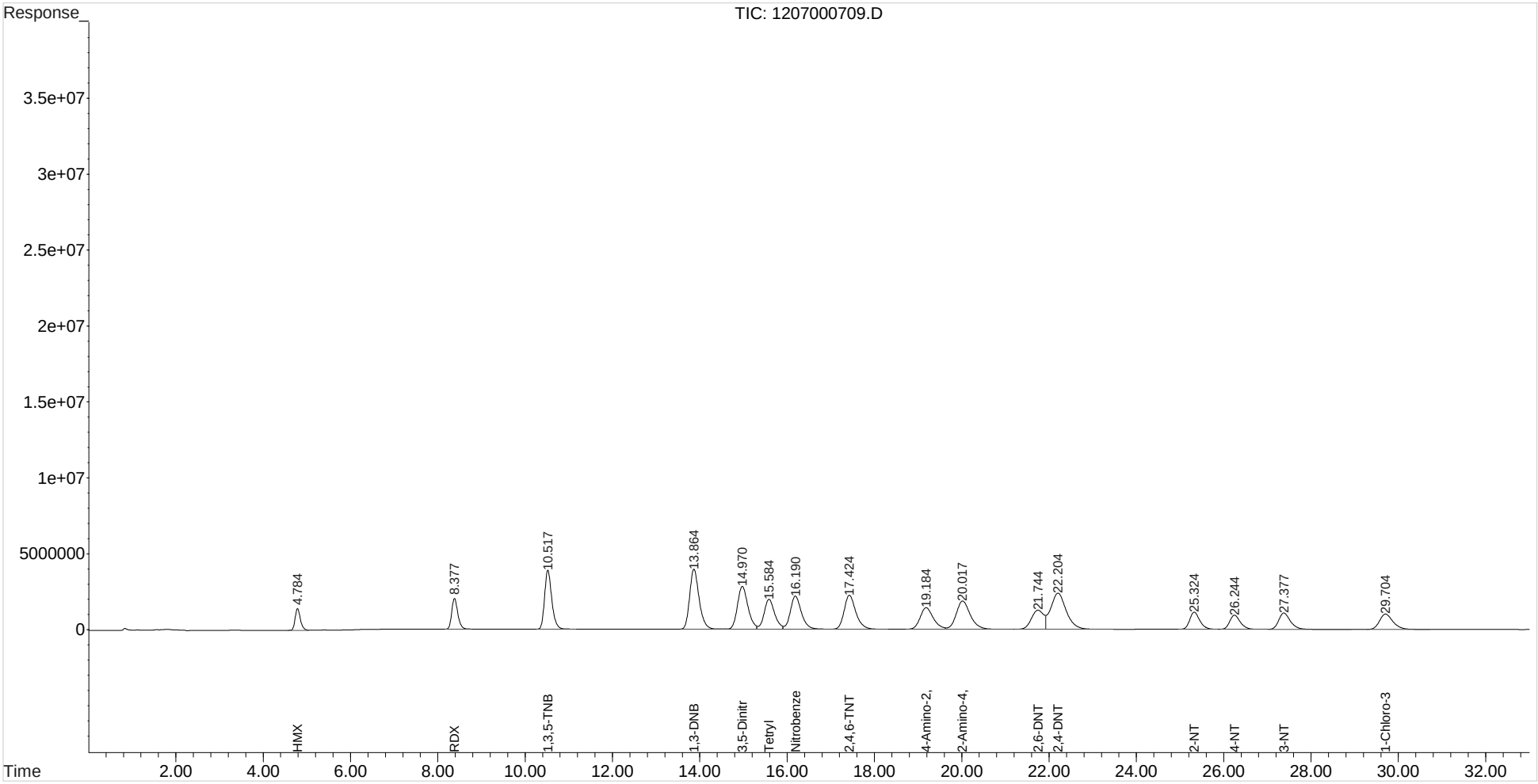
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000709.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:17:24 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:16:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

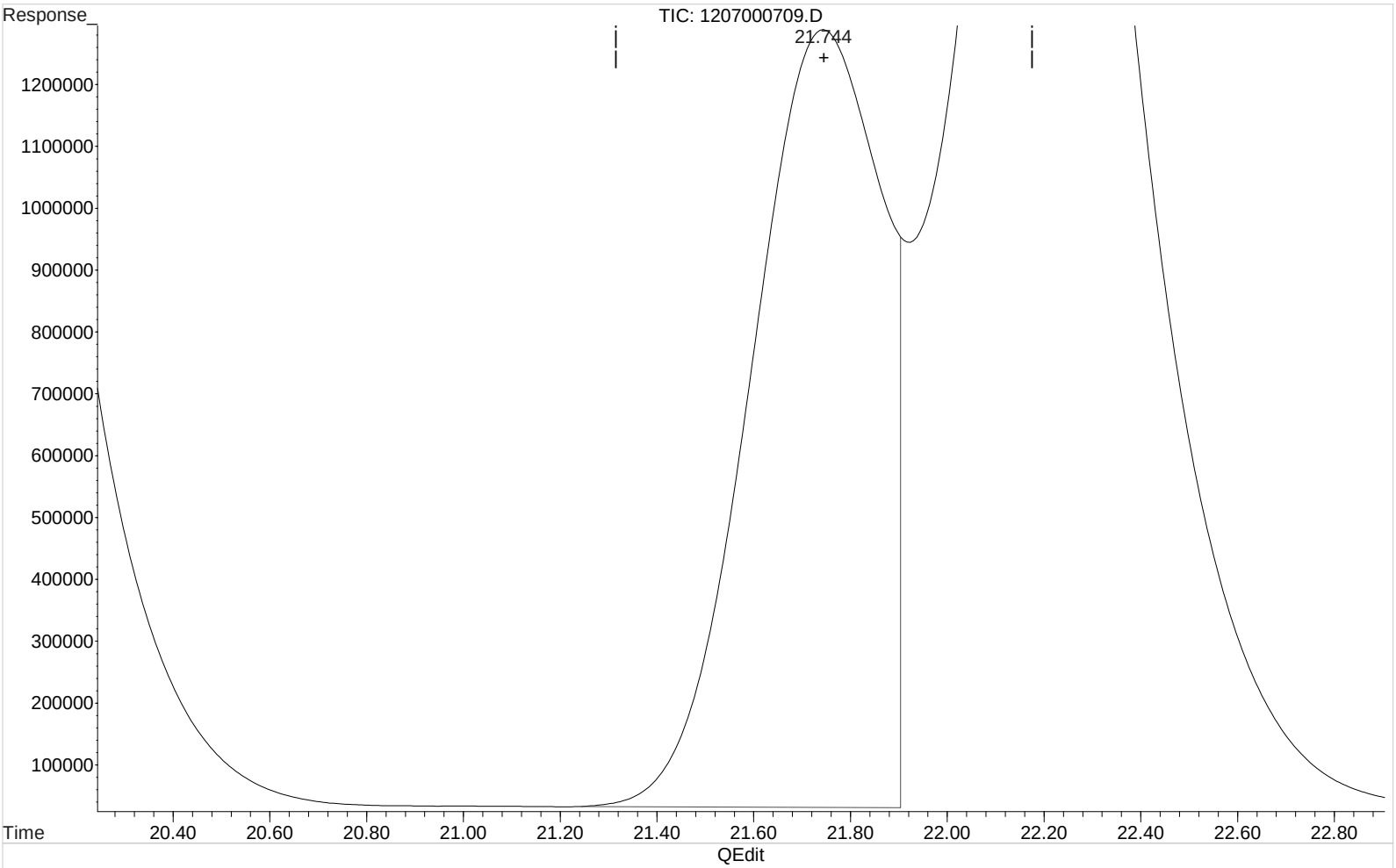


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000709.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:16:36 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:16:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.744min 967.112 ug/L

response 23707470

Manual Integration:

Before

12/08/16

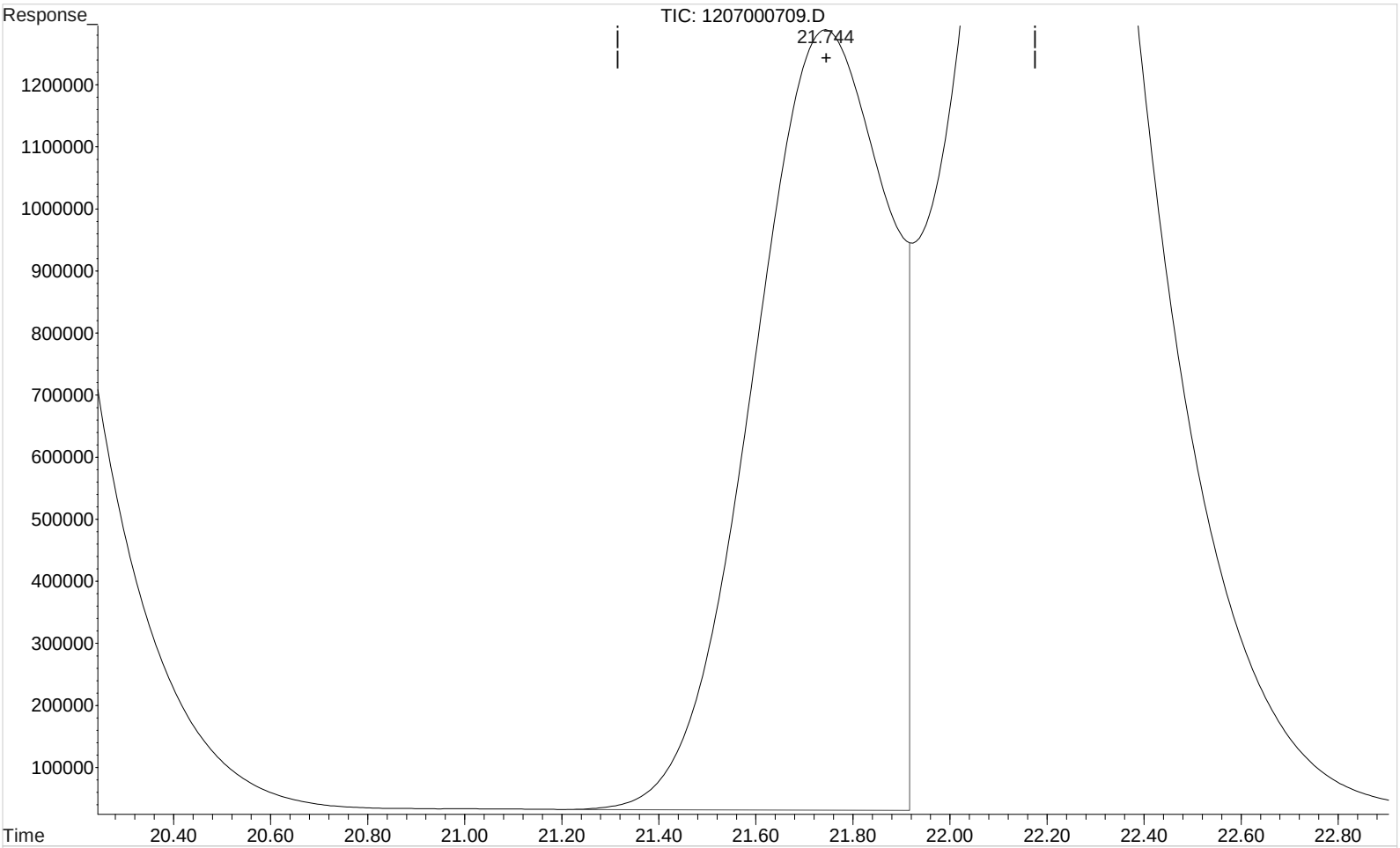
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000709.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:16:36 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:16:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.744min 997.554 ug/L m

response 24453723

Manual Integration:

After

BLC

12/08/16

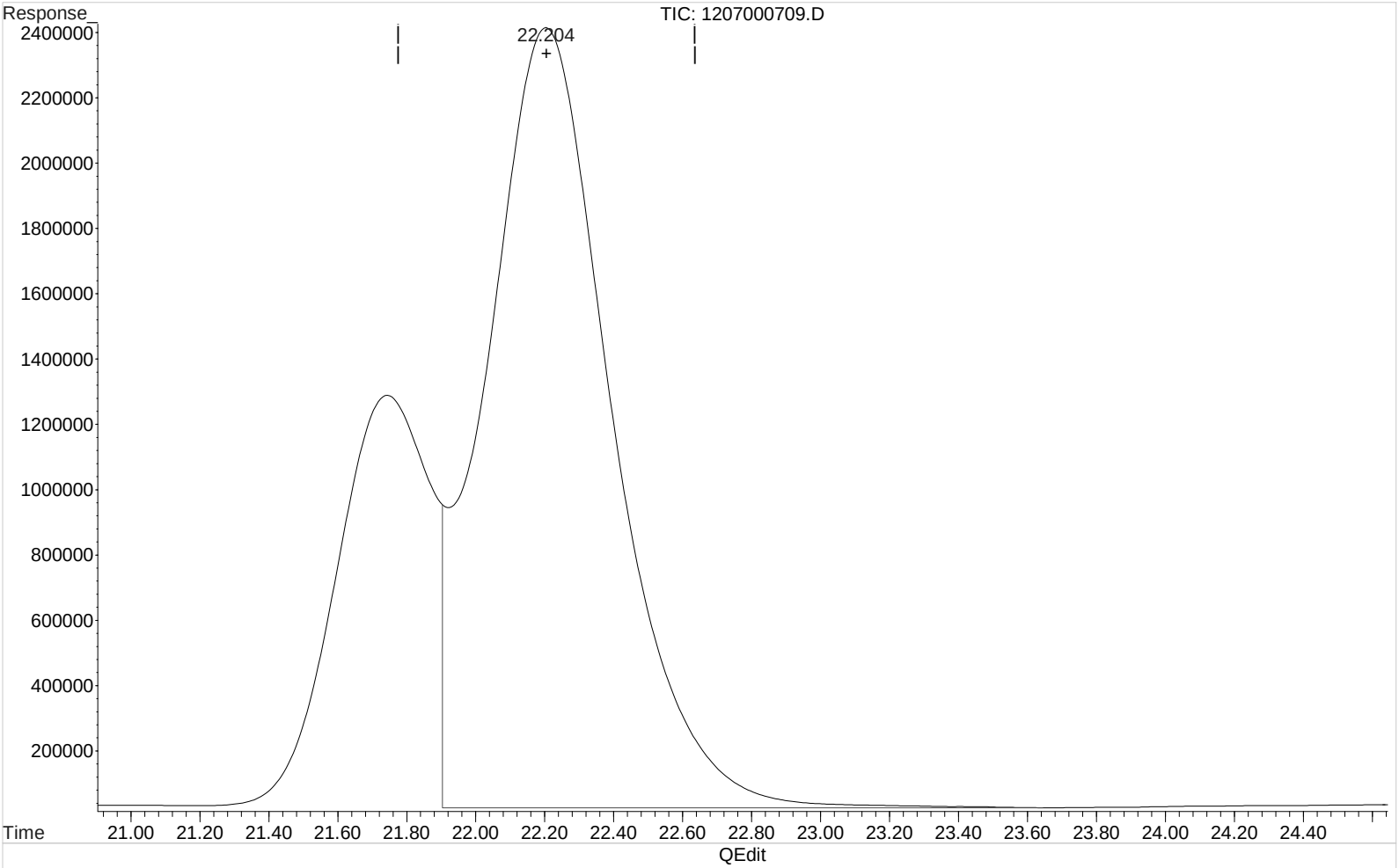
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000709.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:16:36 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:16:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.204min 1026.588 ug/L

response 60484608

Manual Integration:

Before

12/08/16

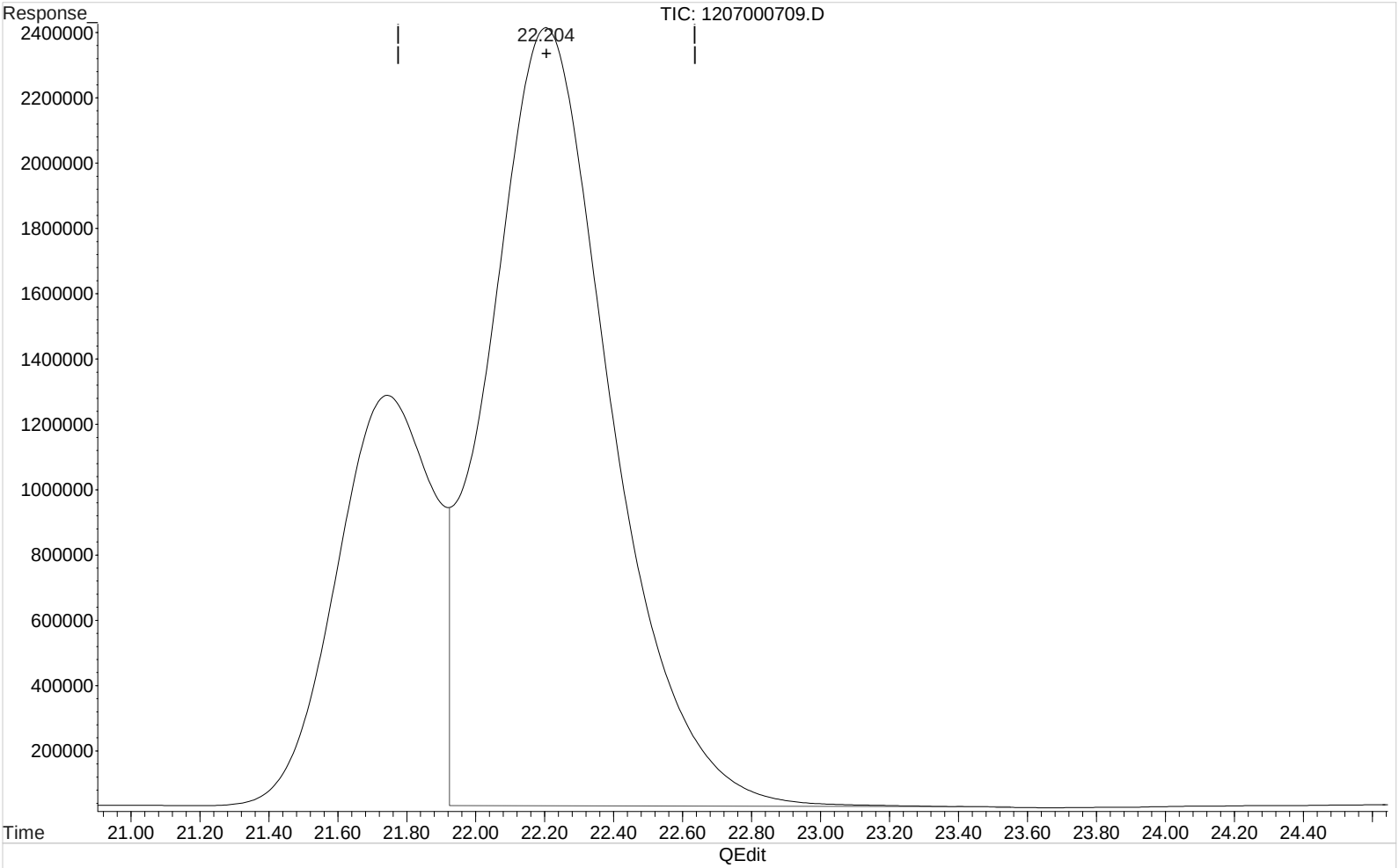
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000709.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:16:36 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:16:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.204min 999.743 ug/L m

response 58902914

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:19:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds							
18)	S	1-Chloro-3-Nitrobenzene	29.700	42294963	1917.388	ug/L	
Target Compounds							
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	4.787	23722211	1979.985	ug/L	m
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	8.380	38913573	1951.255	ug/L	
5)	T	1,3,5-TNB	10.520	87503916	1951.353	ug/L	
6)	T	1,3-DNB	13.860	117702258	1940.670	ug/L	
7)	T	3,5-Dinitroaniline	14.967	93512376	1955.089	ug/L	m
8)	T	Tetryl	15.587	65318779	1949.736	ug/L	
9)	T	Nitrobenzene	16.200	76224644	1969.834	ug/L	
10)	T	2,4,6-TNT	17.440	82170115	1976.657	ug/L	
11)	T	4-Amino-2,6-DNT	19.200	58780326	1998.831	ug/L	
12)	T	2-Amino-4,6-DNT	20.034	81844649	1904.951	ug/L	
13)	T	2,6-DNT	21.754	47948148	1956.773	ug/L	m
14)	T	2,4-DNT	22.214	117648318	1996.898	ug/L	m
15)	T	2-NT	25.327	35281189	1961.314	ug/L	
16)	T	4-NT	26.247	30767210	1919.786	ug/L	
17)	T	3-NT	27.380	39399716	1948.341	ug/L	

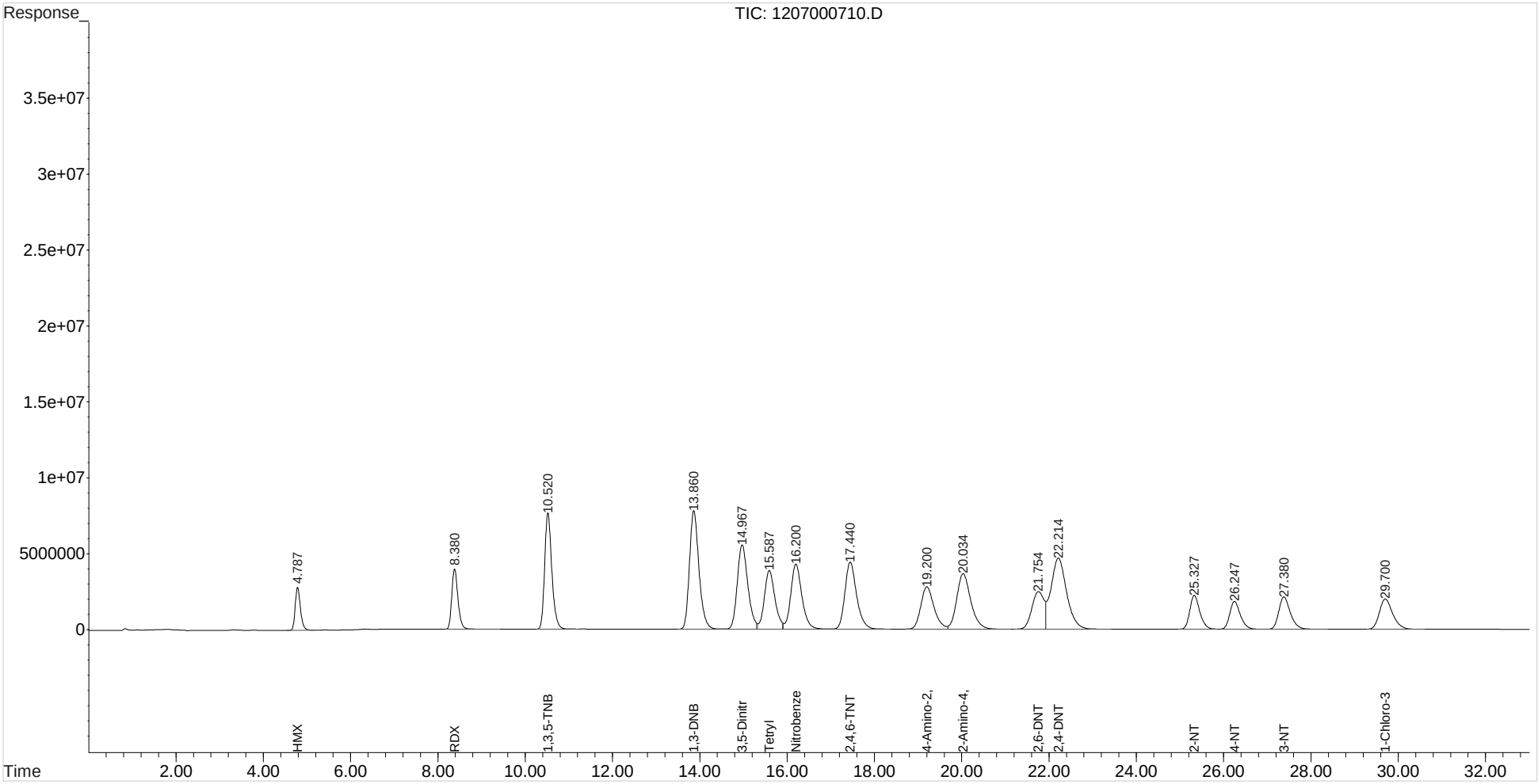
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:19:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

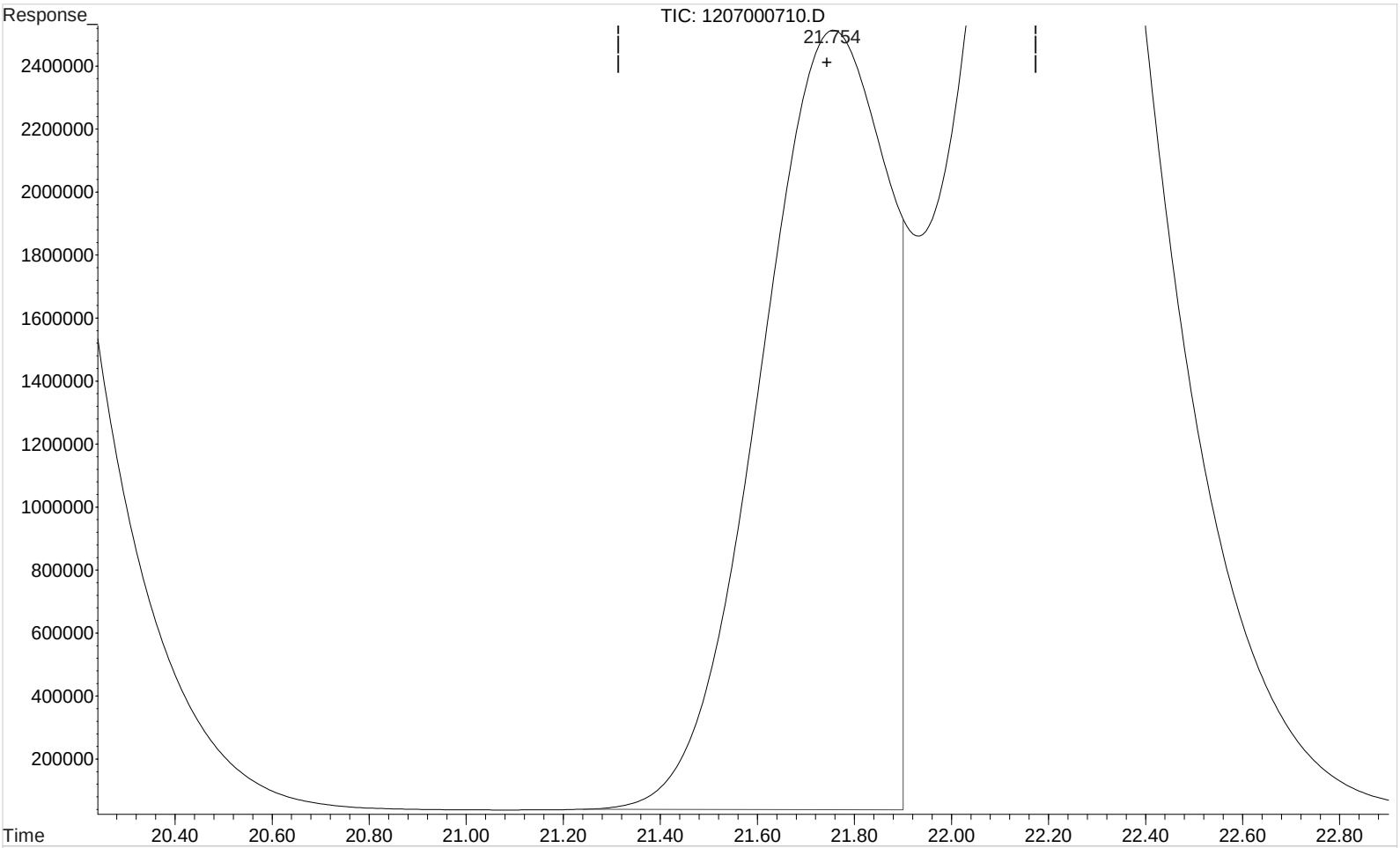


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.754min 1840.068 ug/L

response 45088454

Manual Integration:

Before

12/08/16

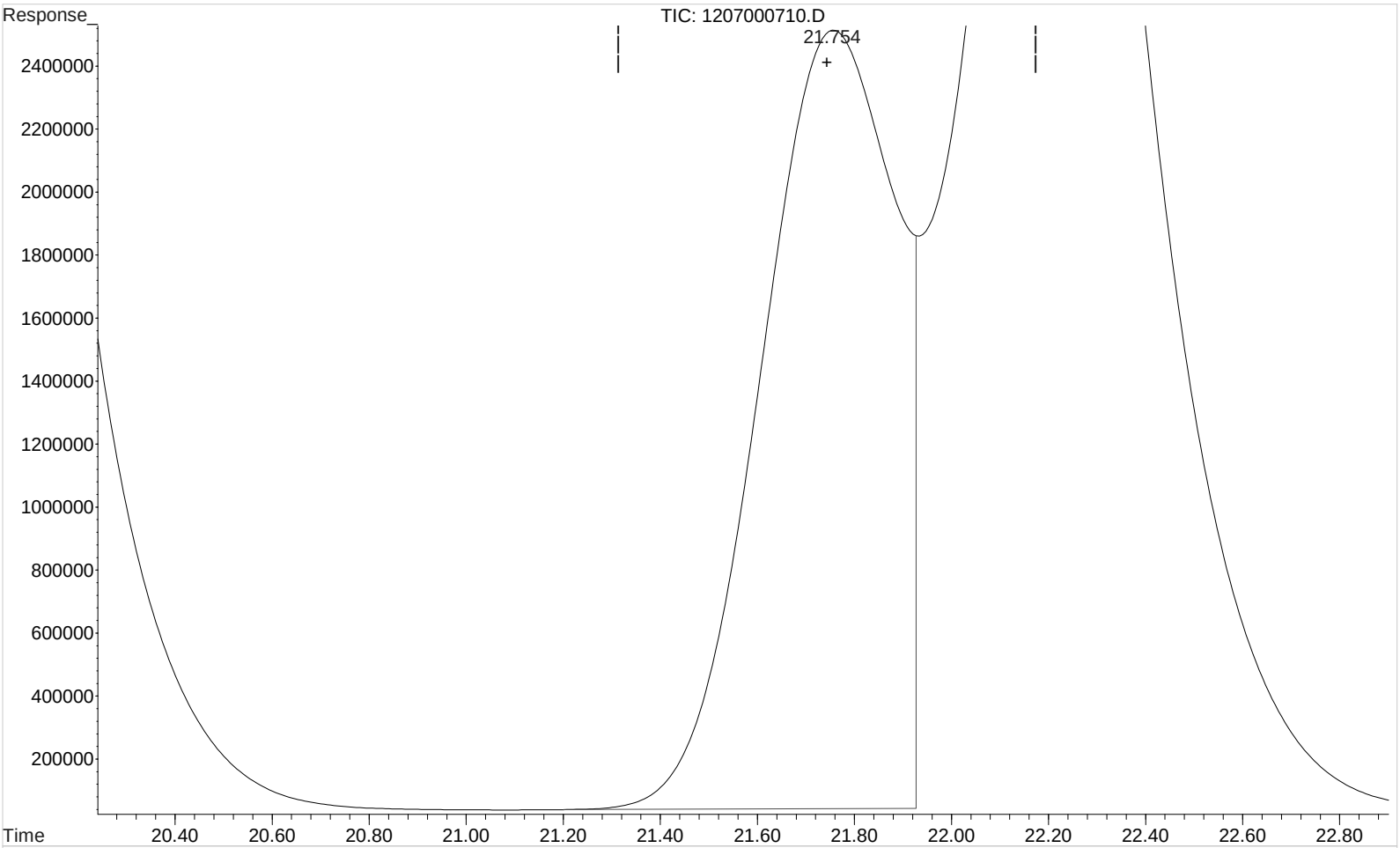
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.754min 1956.773 ug/L m

response 47948148

Manual Integration:

After

WP

12/08/16

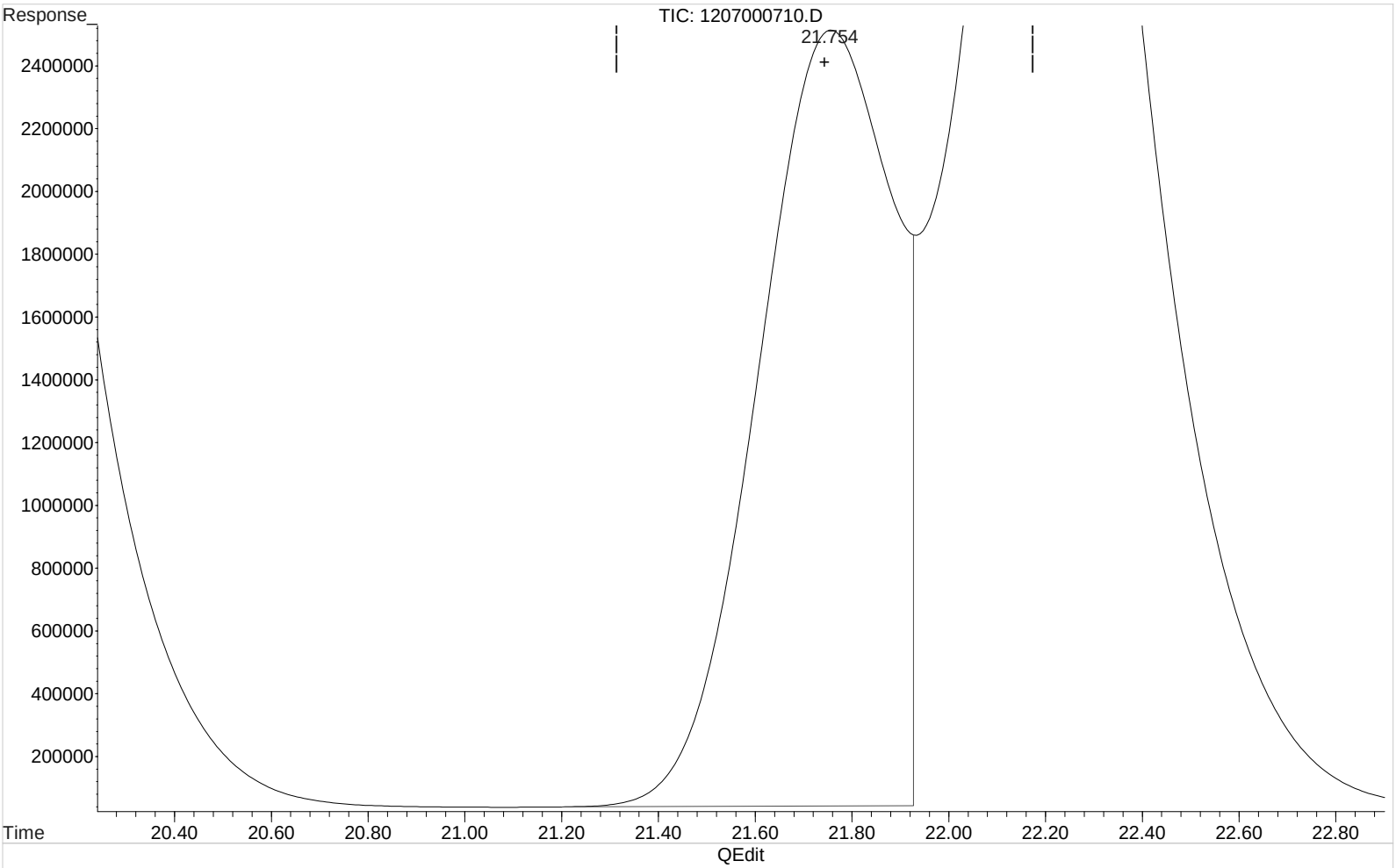
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.754min 1956.773 ug/L m

response 47948148

Manual Integration:

After

BLC

12/08/16

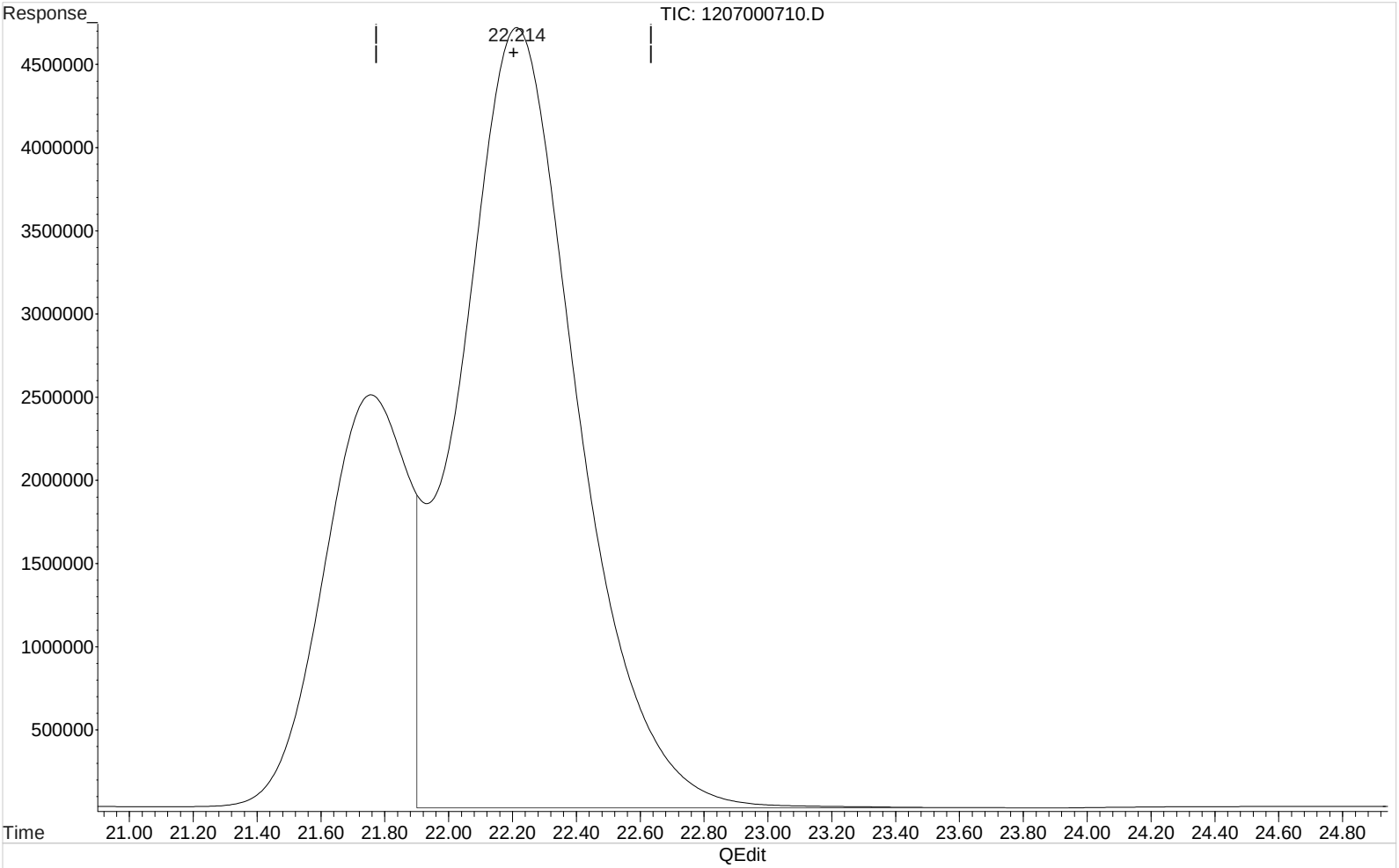
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.214min 2045.708 ug/L

response 120524006

Manual Integration:

Before

12/08/16

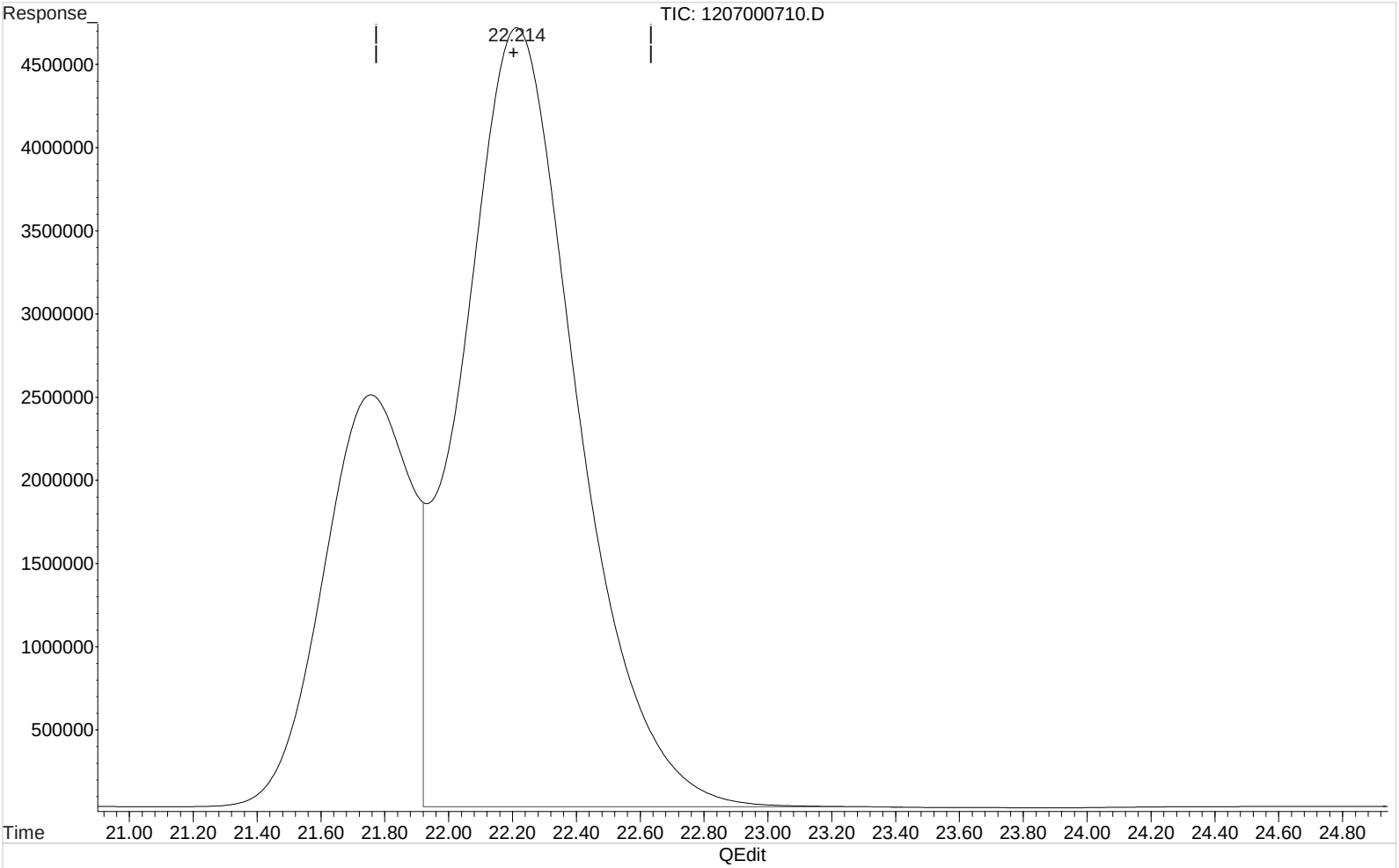
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.214min 1996.898 ug/L m

response 117648318

Manual Integration:

After

BLC

12/08/16

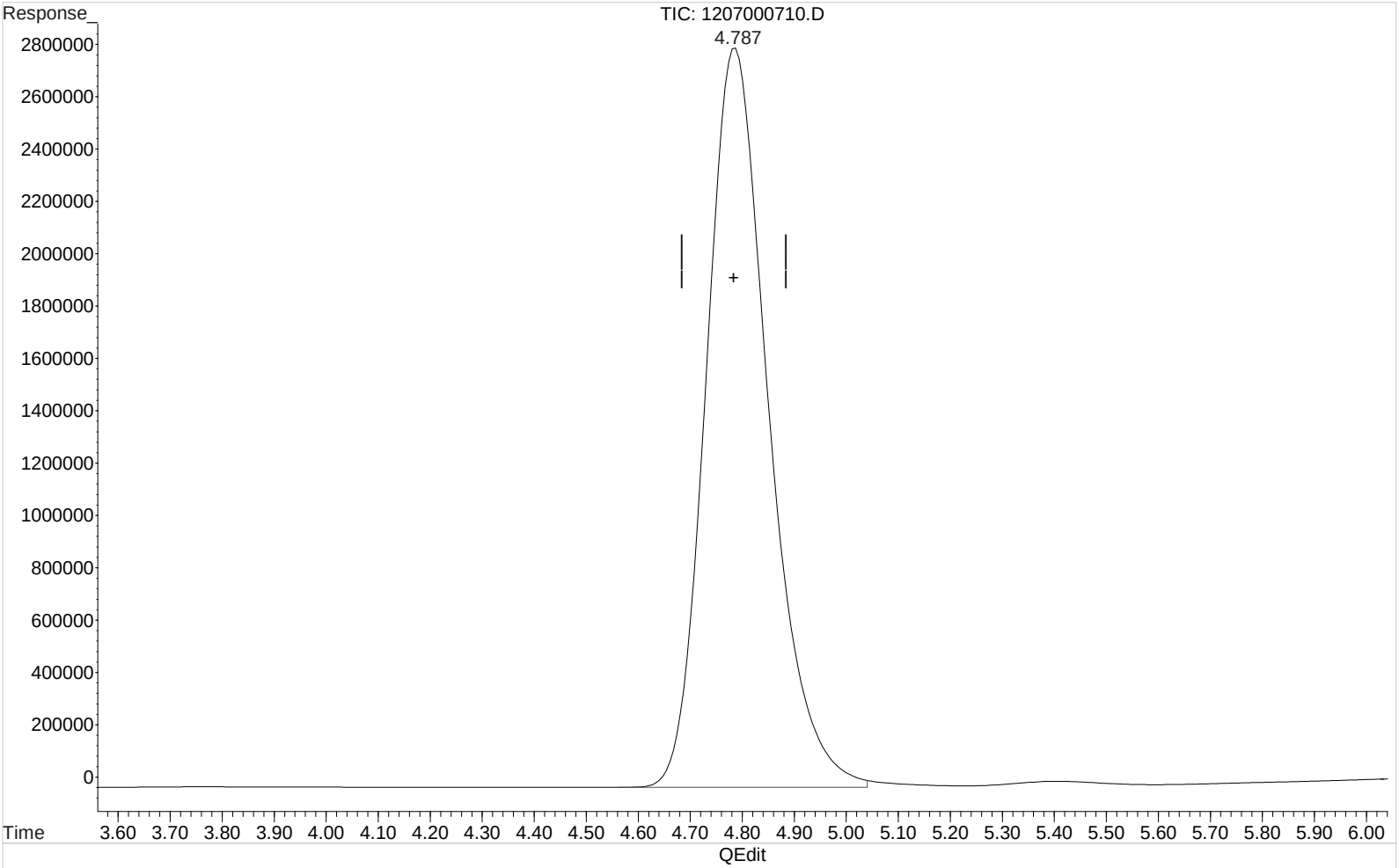
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(2) HMX (T)

4.787min 1973.169 ug/L

response 23640553

Manual Integration:

Before

12/08/16

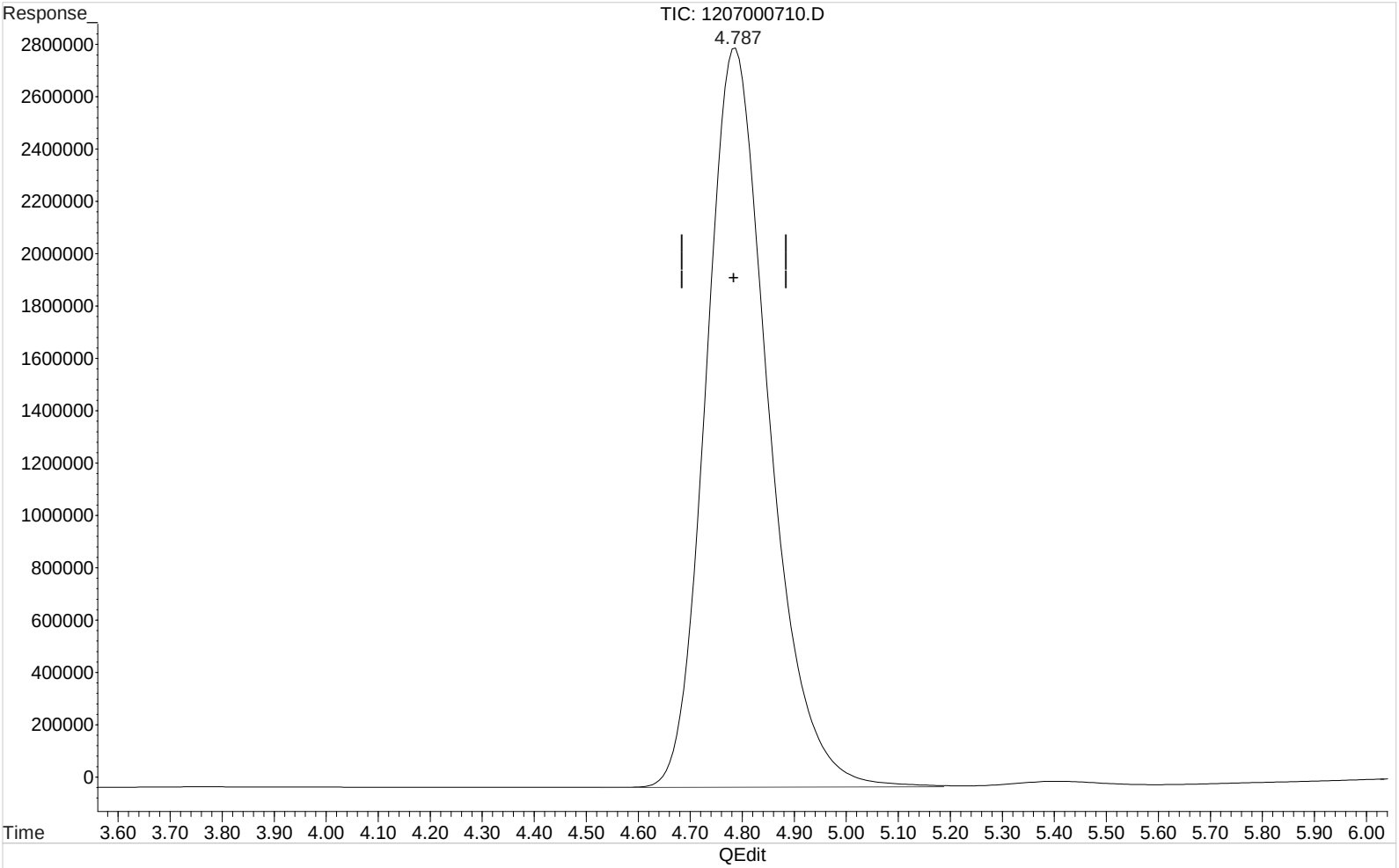
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(2) HMX (T)

4.787min 1979.985 ug/L m

response 23722211

Manual Integration:

After

BLC

12/08/16

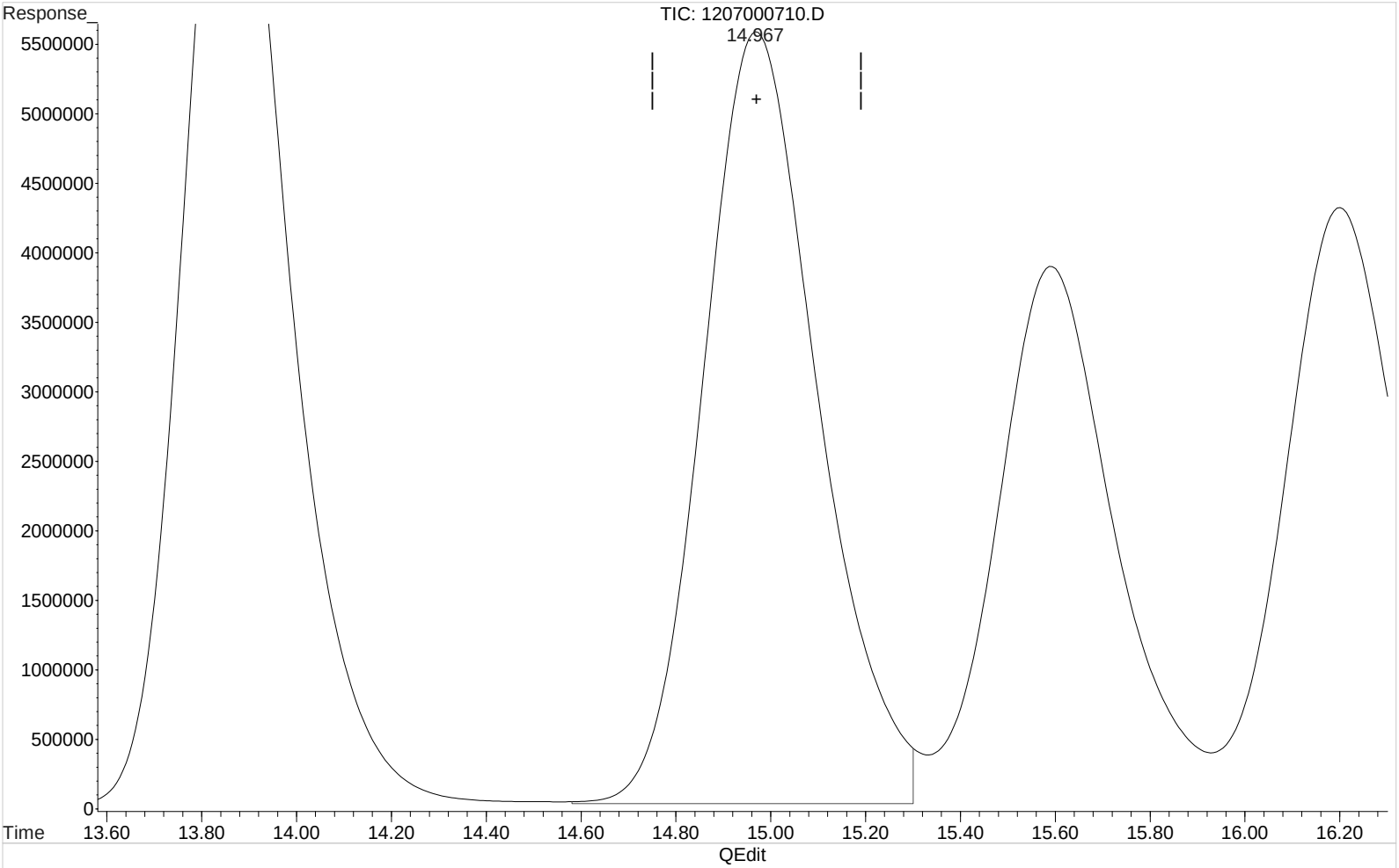
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.967min 1950.402 ug/L

response 93288206

Manual Integration:

Before

12/08/16

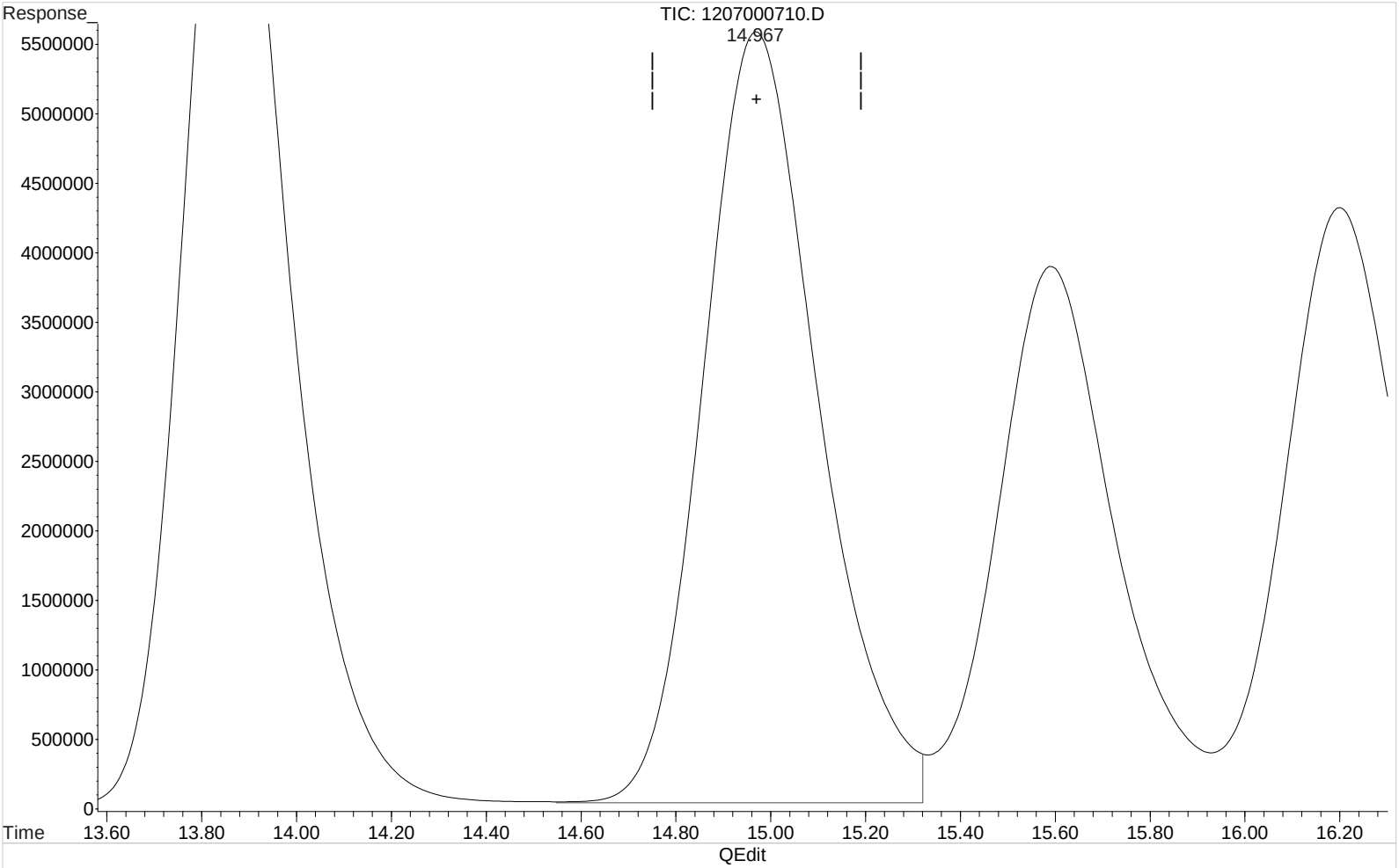
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.967min 1955.089 ug/L m

response 93512376

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000711.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:19:50 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:19:28 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	29.688	109933967	5013.299	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	4.795	61046558	5102.573	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	8.375	100409384	5052.450	ug/L
5)	T	1,3,5-TNB	10.501	226131460	5060.356	ug/L
6)	T	1,3-DNB	13.835	304056740	5034.610	ug/L
7)	T	3,5-Dinitroaniline	14.941	242816511	5092.969	ug/L
8)	T	Tetryl	15.568	169129908	5066.642	ug/L
9)	T	Nitrobenzene	16.168	196342707	5084.940	ug/L
10)	T	2,4,6-TNT	17.421	212586394	5122.448	ug/L
11)	T	4-Amino-2,6-DNT	19.175	150900677	5131.820	ug/L
12)	T	2-Amino-4,6-DNT	20.001	212629441	4982.823	ug/L
13)	T	2,6-DNT	21.735	123855451	5070.219	ug/L
14)	T	2,4-DNT	22.188	303841514	5158.381	ug/L
15)	T	2-NT	25.308	91795667	5117.146	ug/L
16)	T	4-NT	26.235	79961280	5018.107	ug/L
17)	T	3-NT	27.361	102384406	5081.725	ug/L

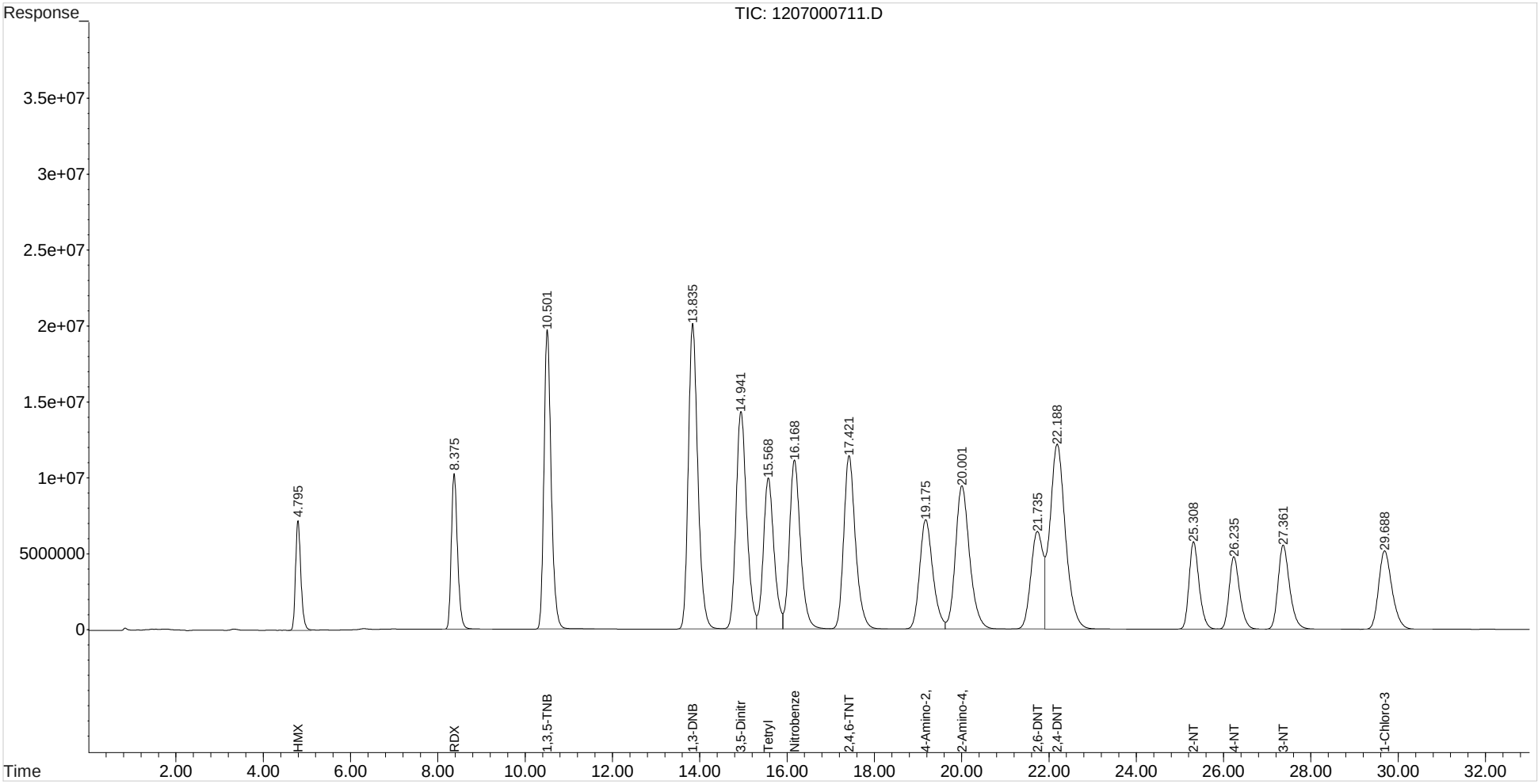
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000711.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:19:50 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:19:28 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000712.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:21:24 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:20:15 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
18)	S	1-Chloro-3-Nitrobenzene	29.704	188214338	8580.252	ug/L	
		Target Compounds					
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	4.784	116952177	9750.438	ug/L	m
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	8.378	193516345	9724.702	ug/L	
5)	T	1,3,5-TNB	10.518	436043077	9743.045	ug/L	
6)	T	1,3-DNB	13.844	585109637	9679.945	ug/L	
7)	T	3,5-Dinitroaniline	14.958	466801971	9768.261	ug/L	
8)	T	Tetryl	15.584	328561092	9826.366	ug/L	
9)	T	Nitrobenzene	16.191	378180319	9773.468	ug/L	
10)	T	2,4,6-TNT	17.438	410119977	9852.027	ug/L	
11)	T	4-Amino-2,6-DNT	19.191	290587885	9849.834	ug/L	
12)	T	2-Amino-4,6-DNT	20.018	410849938	9632.119	ug/L	
13)	T	2,6-DNT	21.751	239813080	9799.925	ug/L	m
14)	T	2,4-DNT	22.198	592003966	10010.937	ug/L	
15)	T	2-NT	25.318	175973088	9780.967	ug/L	
16)	T	4-NT	26.244	153399761	9622.509	ug/L	
17)	T	3-NT	27.371	196431690	9729.768	ug/L	

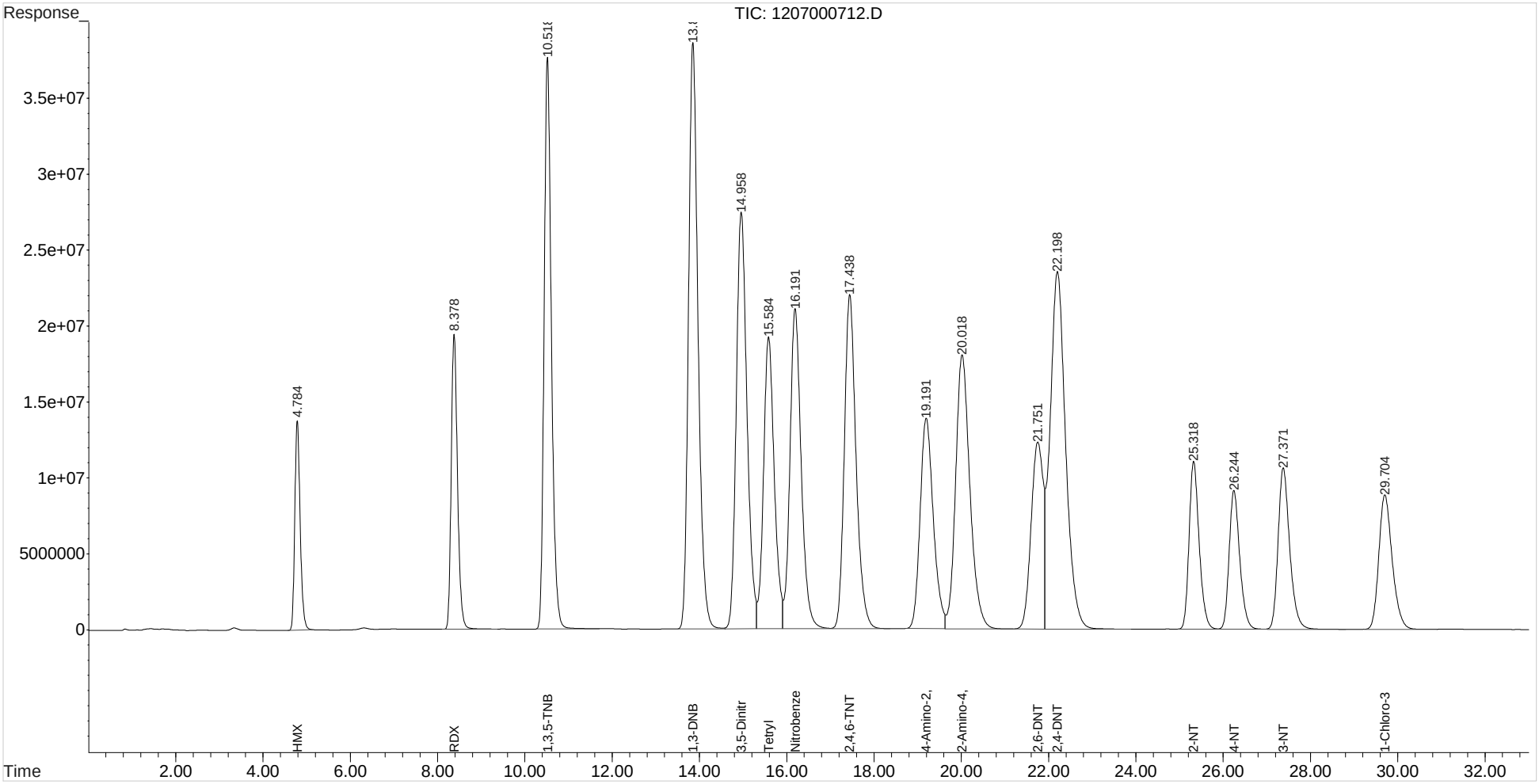
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000712.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:21:24 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:20:15 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

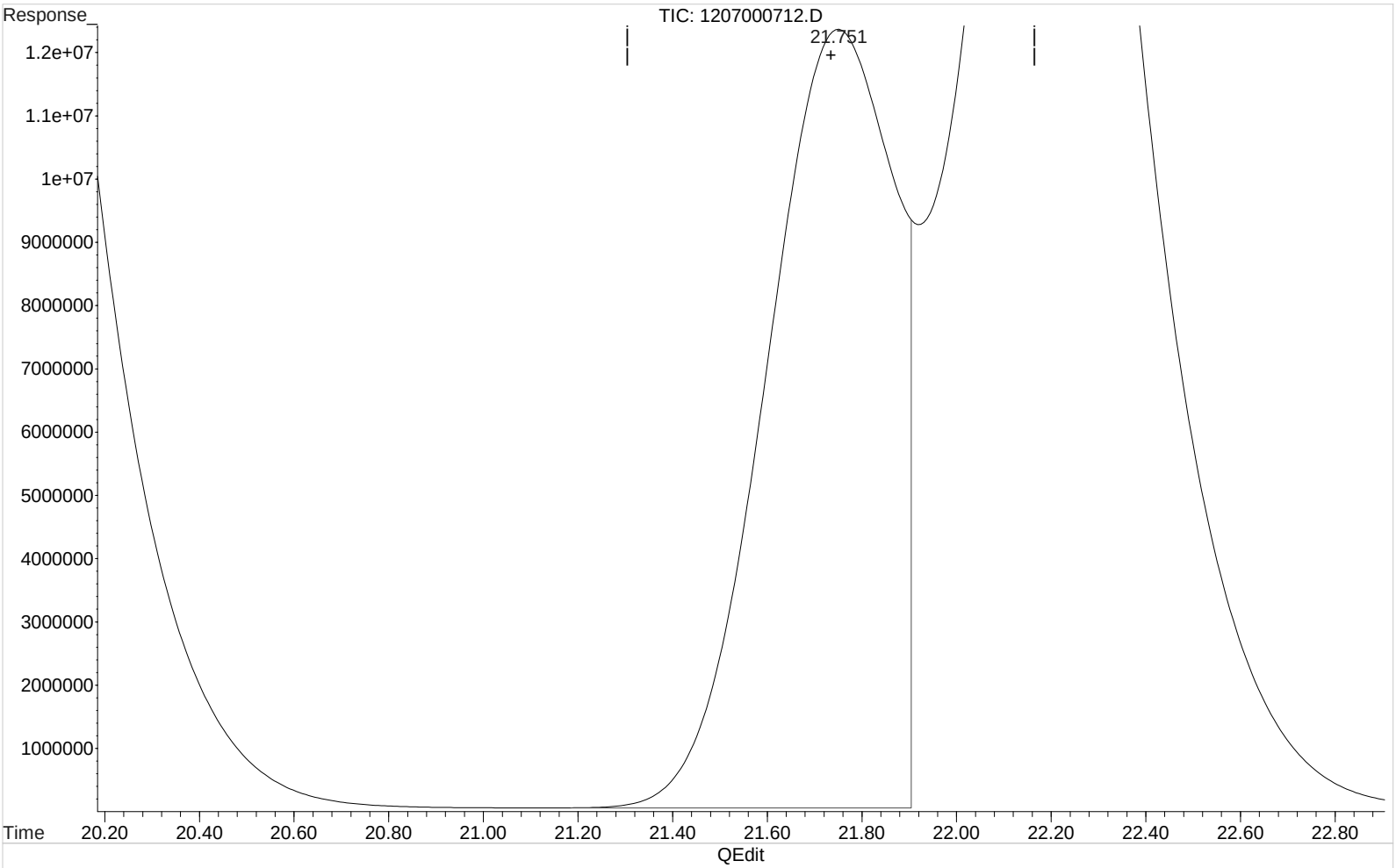


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000712.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:20:40 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:20:15 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.751min 9489.334 ug/L

response 232212639

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

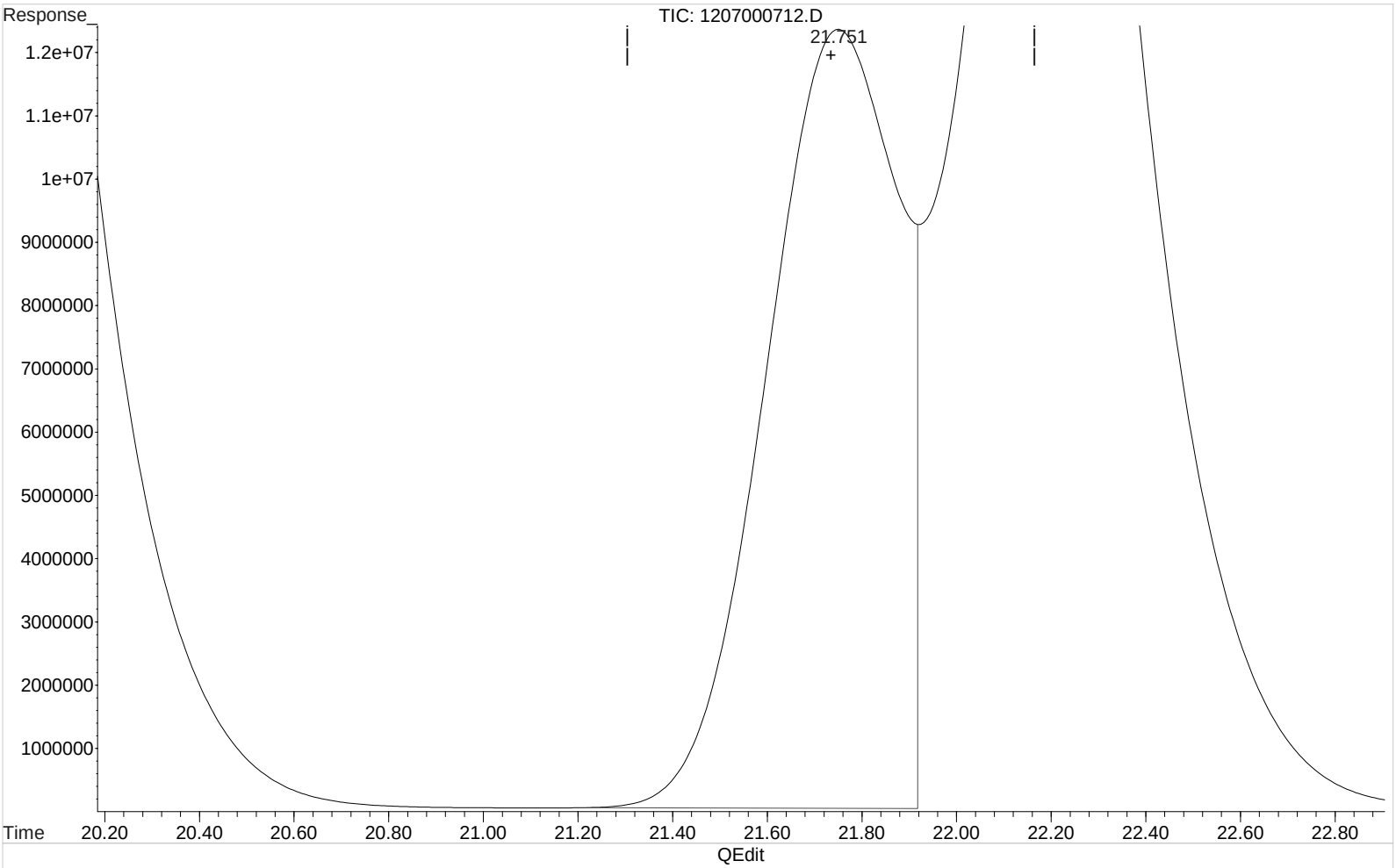
2/08/16

2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000712.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:20:40 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:20:15 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.751min 9799.925 ug/L m

response 239813080

Manual Integration:

After

BLC

12/08/16

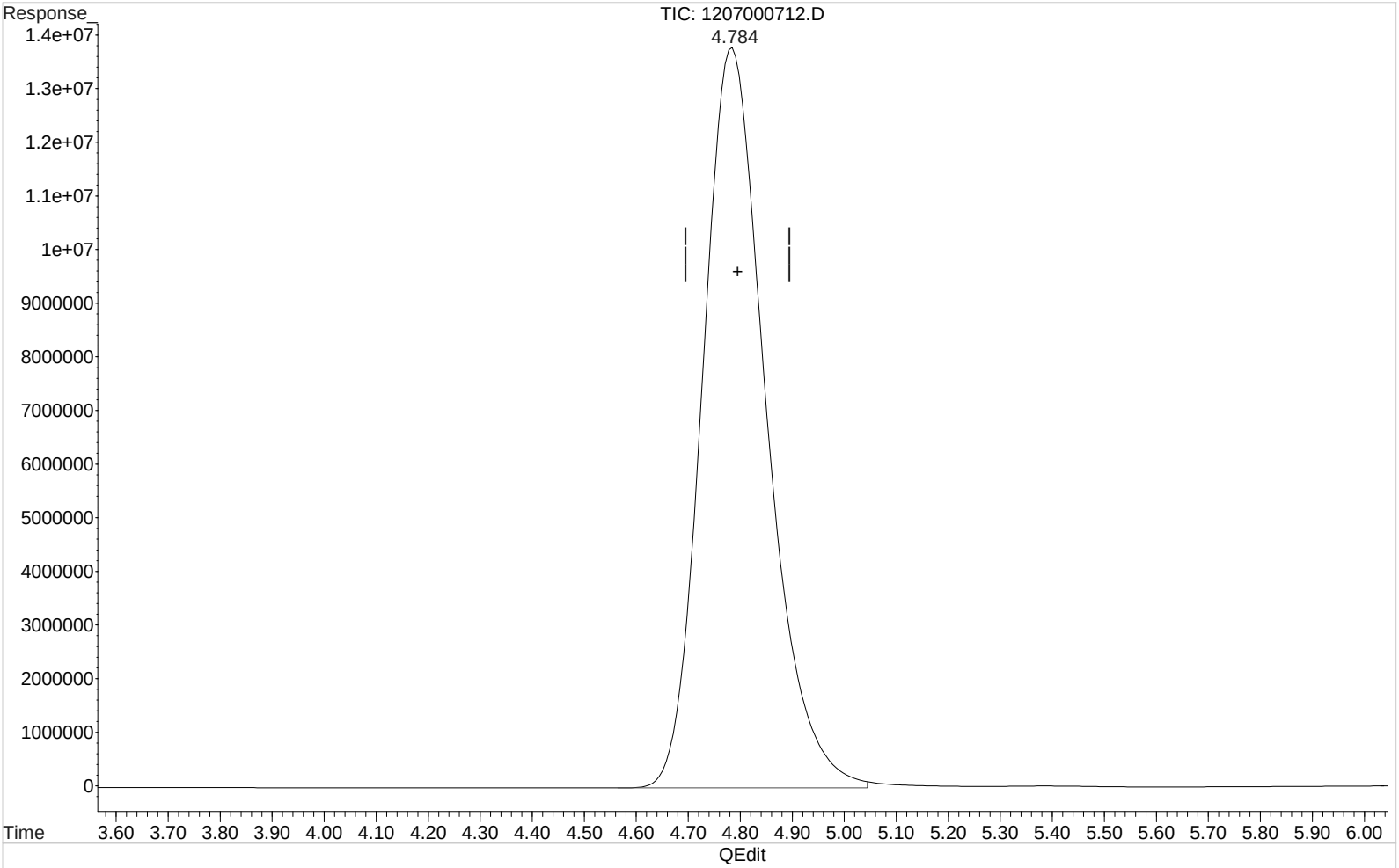
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000712.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:20:40 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:20:15 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(2) HMX (T)

4.784min 9782.211 ug/L

response 117333279

Manual Integration:

Before

12/08/16

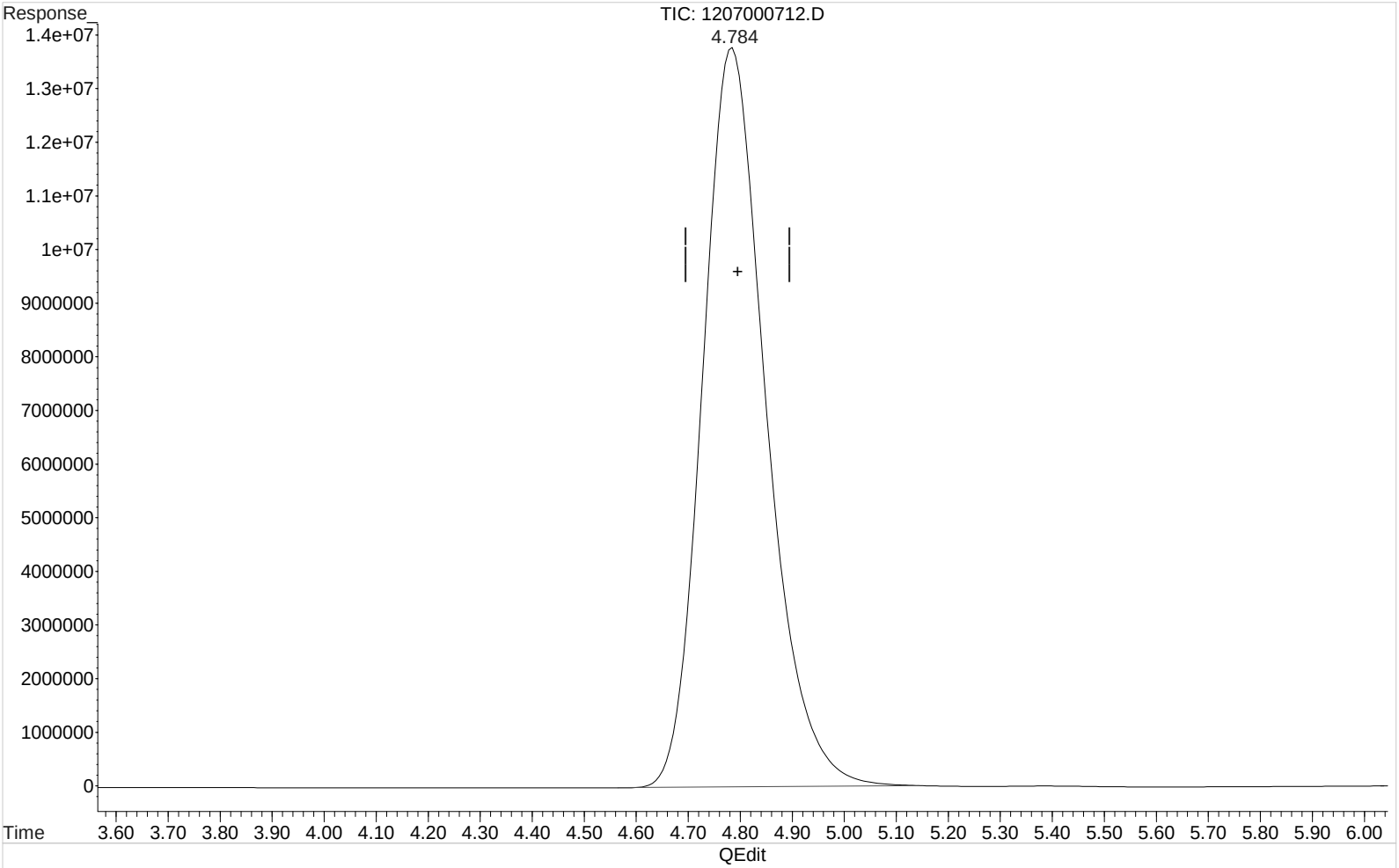
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000712.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:20:40 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:20:15 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(2) HMX (T)

4.784min 9750.438 ug/L m

response 116952177

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:23:02 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
18)	S	1-Chloro-3-Nitrobenzene	29.704	435685183	20180.213	ug/L	
		Target Compounds					
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	4.777	241966350	20229.108	ug/L	m
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	8.371	401104321	20218.386	ug/L	
5)	T	1,3,5-TNB	10.511	900466088	20177.826	ug/L	
6)	T	1,3-DNB	13.844	1214946342	20171.579	ug/L	
7)	T	3,5-Dinitroaniline	14.944	968917588	20327.834	ug/L	
8)	T	Tetryl	15.578	672938780	20164.667	ug/L	
9)	T	Nitrobenzene	16.184	775365787	20088.658	ug/L	
10)	T	2,4,6-TNT	17.438	850093674	20454.841	ug/L	
11)	T	4-Amino-2,6-DNT	19.184	601309368	20416.185	ug/L	
12)	T	2-Amino-4,6-DNT	20.004	851309194	20040.326	ug/L	
13)	T	2,6-DNT	21.758	497576104	20378.674	ug/L	m
14)	T	2,4-DNT	22.204	1201394842	20313.423	ug/L	m
15)	T	2-NT	25.324	362650447	20206.077	ug/L	
16)	T	4-NT	26.251	316882161	19961.209	ug/L	
17)	T	3-NT	27.384	404148803	20078.821	ug/L	

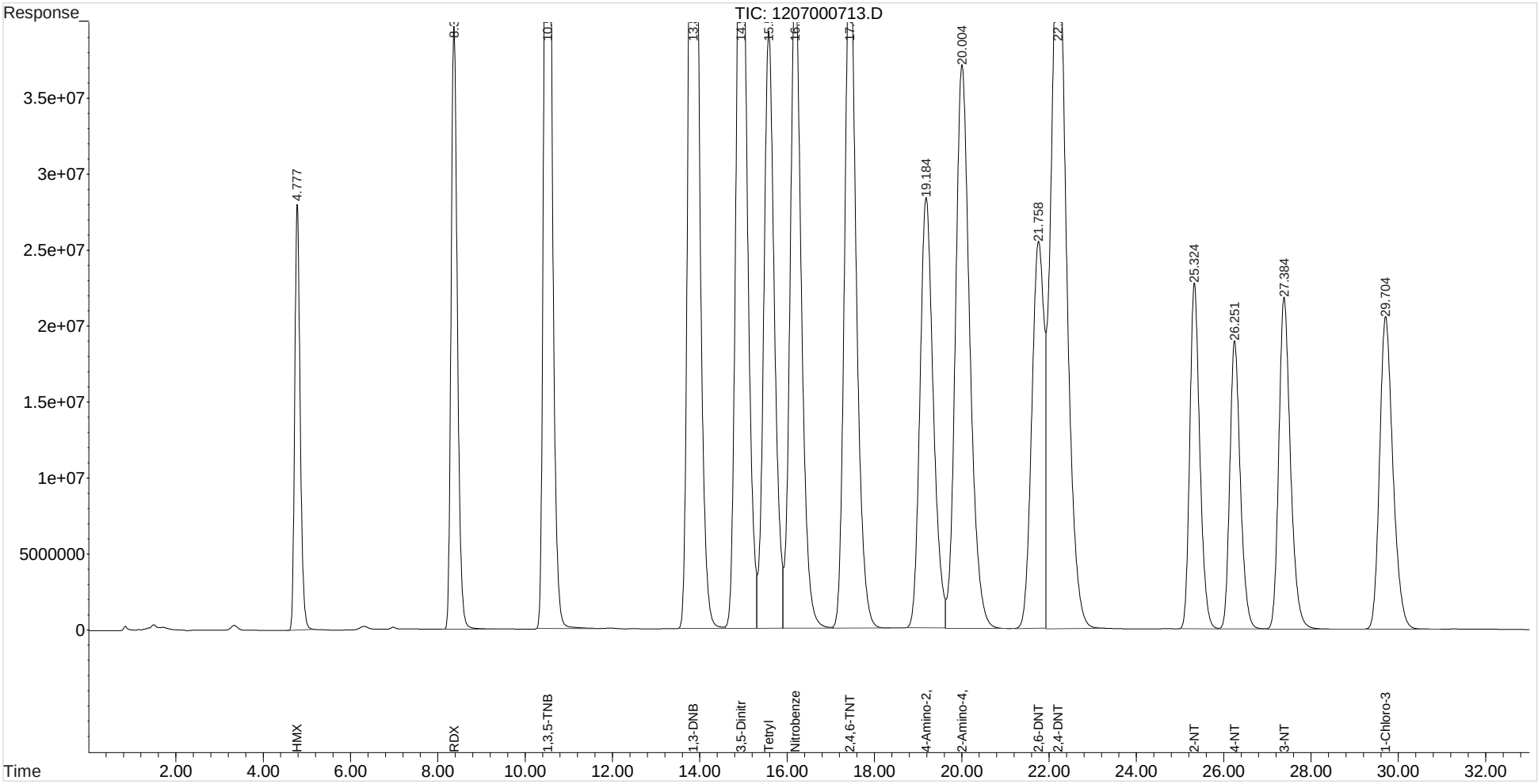
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:23:02 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

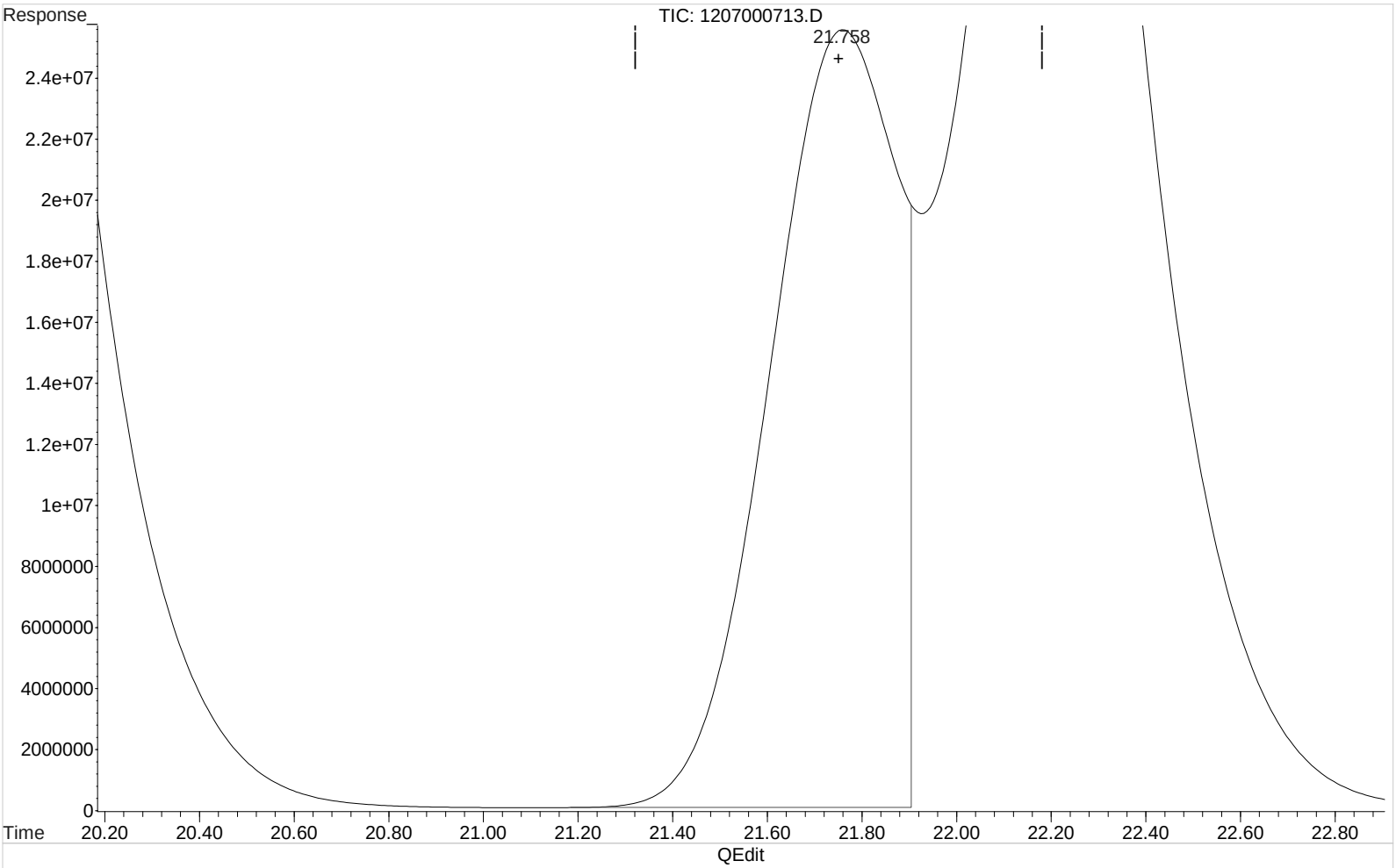


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:22:15 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.758min 19437.420 ug/L

response 474593969

Manual Integration:

Before

12/08/16

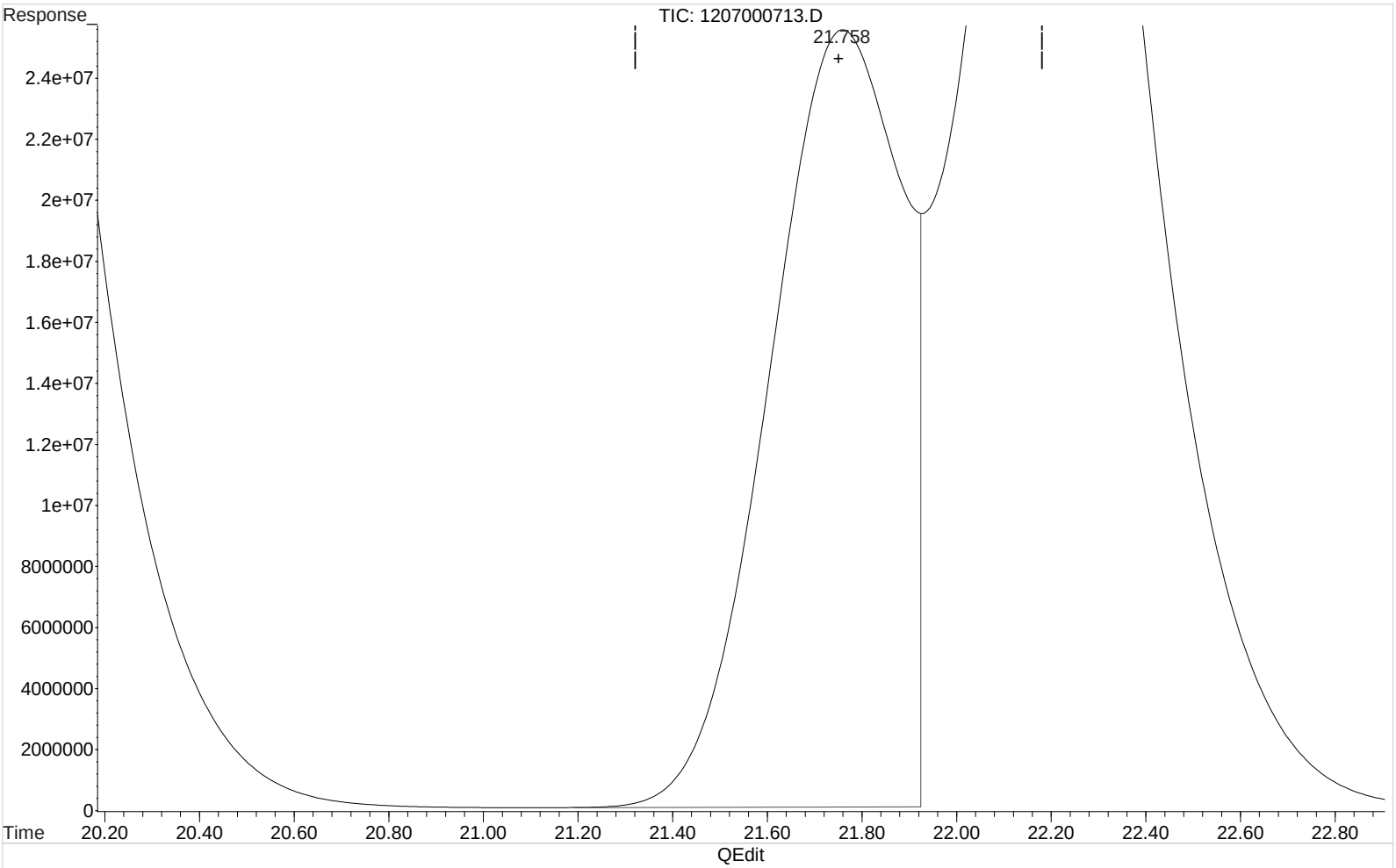
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:22:15 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.758min 20378.674 ug/L m

response 497576104

Manual Integration:

After

BLC

12/08/16

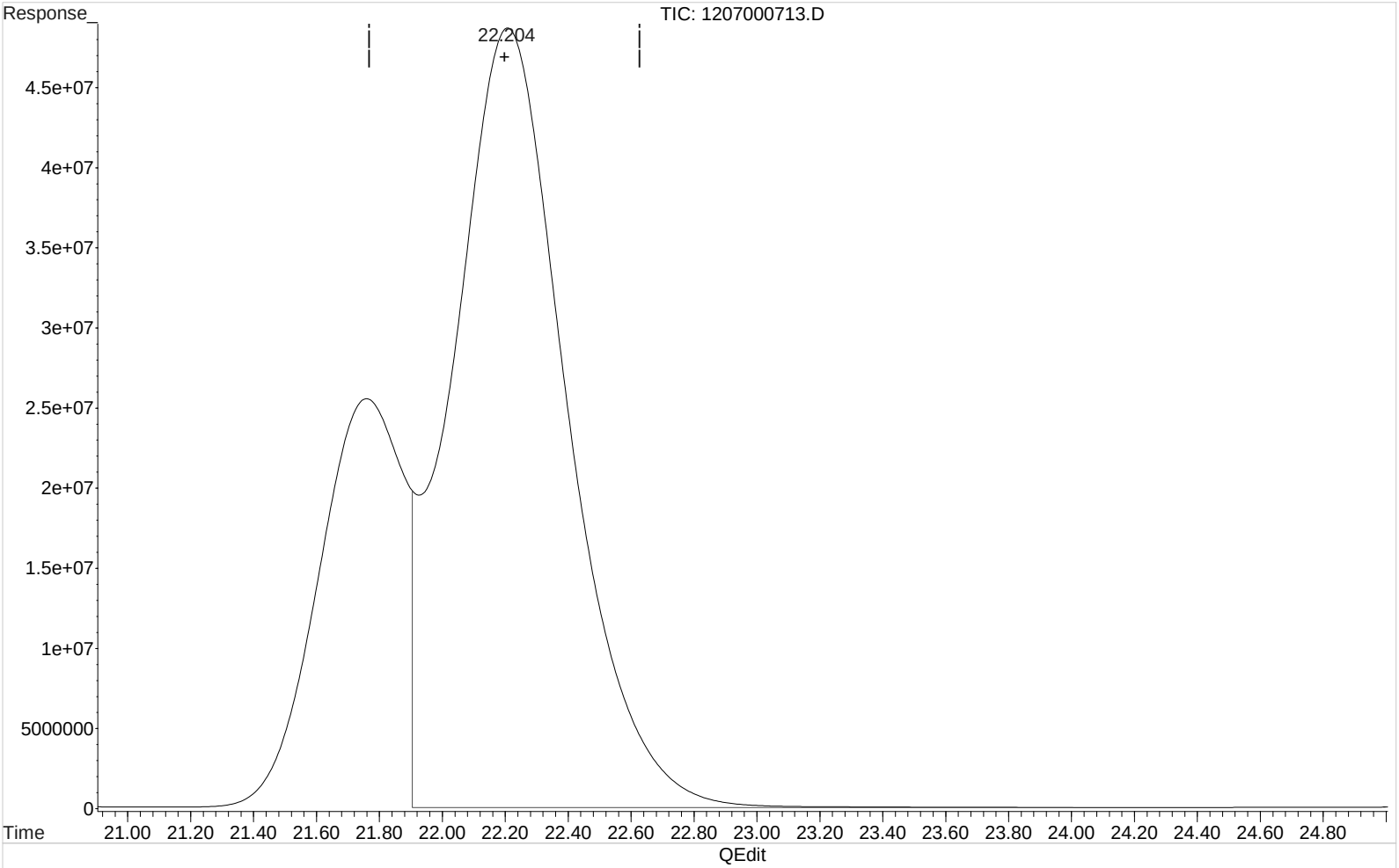
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:22:15 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.204min 20877.470 ug/L

response 1234754222

Manual Integration:

Before

12/08/16

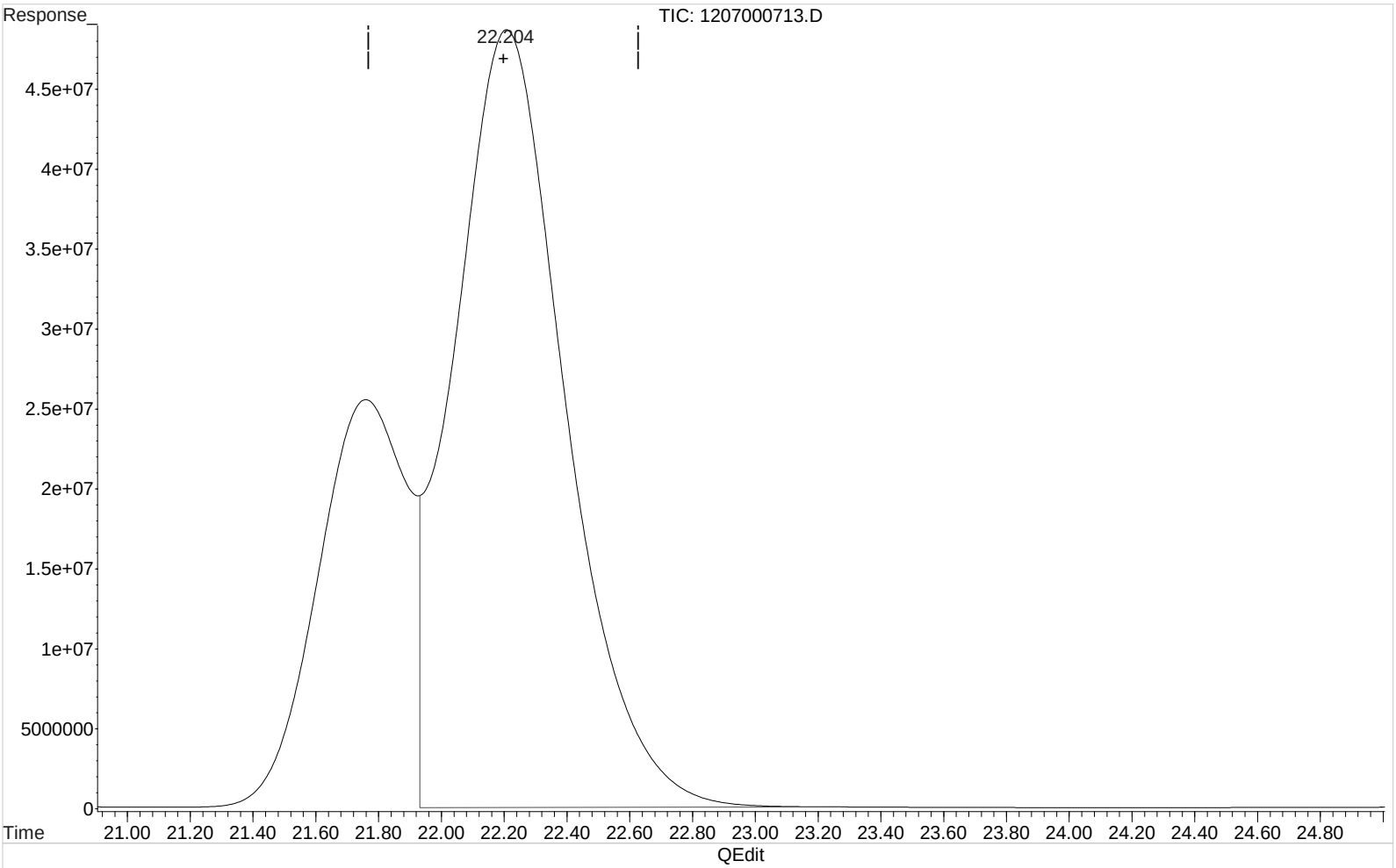
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:22:15 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.204min 20313.423 ug/L m

response 1201394842

Manual Integration:

After

BLC

12/08/16

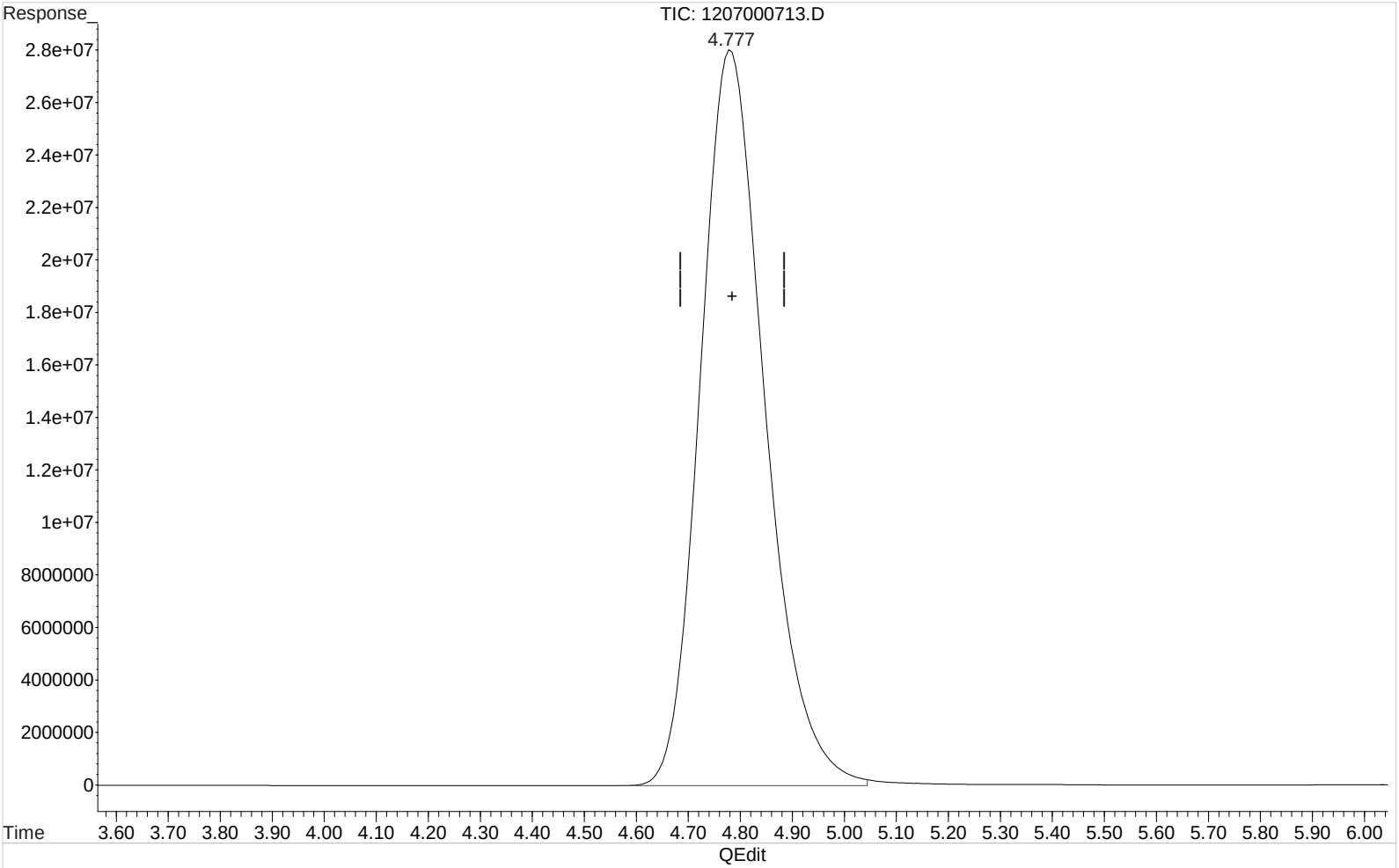
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:22:15 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(2) HMX (T)

4.777min 20269.811 ug/L

response 242453211

Manual Integration:

Before

12/08/16

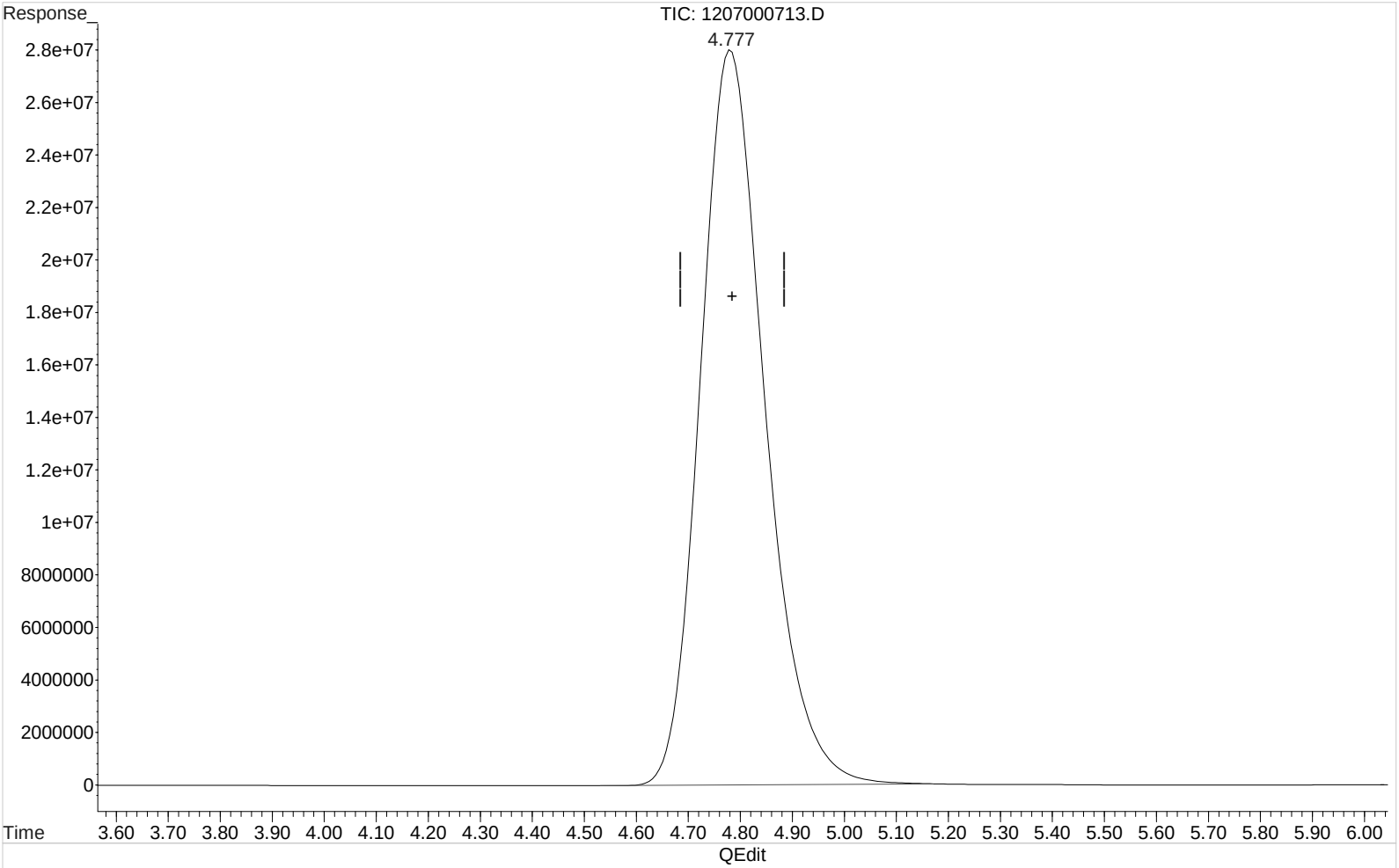
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:22:15 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(2) HMX (T)

4.777min 20229.108 ug/L m

response 241966350

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000715.D Vial: 13
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV ~~1000 PPB~~ 10,000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 13:49:43 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 13:47:31 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
18) S	1-Chloro-3-Nitrobenzene	29.691	178340313	8252.990	ug/L
	Target Compounds				
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2) T	HMX	4.784	106984607	8933.998	ug/L
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4) T	RDX	8.371	176025842	8863.222	ug/L
5) T	1,3,5-TNB	10.511	399499816	8944.120	ug/L
6) T	1,3-DNB	13.851	535328425	8880.362	ug/L
7) T	3,5-Dinitroaniline	14.958	428966341	8984.961	ug/L
8) T	Tetryl	15.584	299167845	8957.215	ug/L
9) T	Nitrobenzene	16.191	348449239	9023.839	ug/L
10) T	2,4,6-TNT	17.438	377261904	9057.028	ug/L
11) T	4-Amino-2,6-DNT	19.198	267038567	9047.901	ug/L
12) T	2-Amino-4,6-DNT	20.017	374887145	8933.962	ug/L
13) T	2,6-DNT	21.731	223573705	9139.357	ug/L
14) T	2,4-DNT	22.184	532654960	8992.144	ug/L
15) T	2-NT	25.311	161287053	8977.306	ug/L
16) T	4-NT	26.231	141966427	8944.559	ug/L
17) T	3-NT	27.364	176761245	8778.349	ug/L

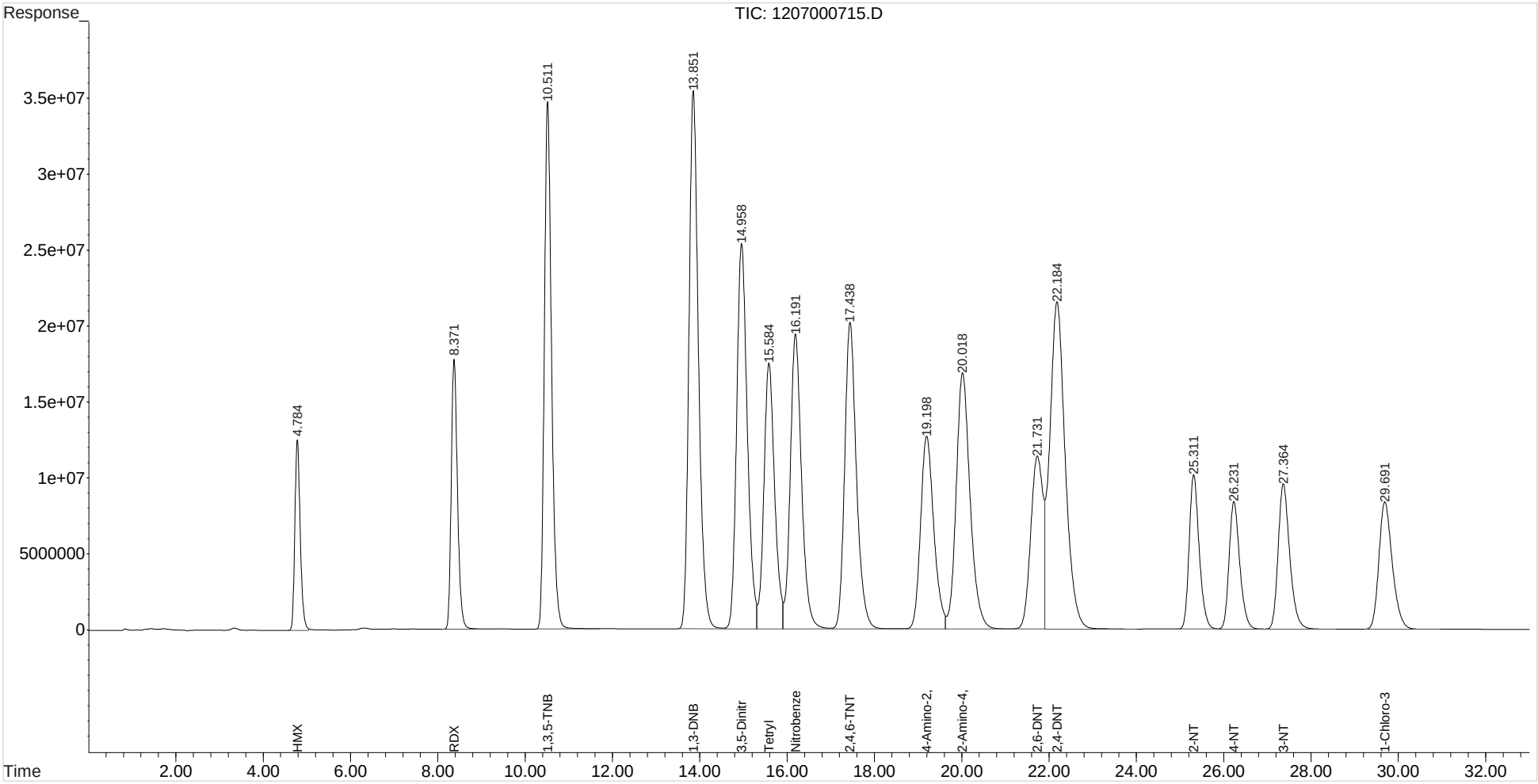
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000715.D Vial: 13
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 13:49:43 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 13:47:31 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



Preparation Information

Group ID:	KWG1701417	**Prep Method:**	METHOD	**Prep Date:**	02/21/17 17:05
Department:	Organic LC				

Lab Code	Client ID	Product	Matrix	Amt. Ext.	Final Vol.	Solids
K1701351-001	FD-020717	8330B Fire Range Nitr	SOIL	10.004g	8ml	
K1701351-002	FD-020817	8330B Fire Range Nitr	SOIL	10.015g	8ml	
K1701351-003	FTBL-SB-02-0-0.5-020817	8330B Fire Range Nitr	SOIL	10.078g	8ml	
K1701351-004	FTBL-SB-02-0.5-2-020817	8330B Fire Range Nitr	SOIL	10.291g	8ml	
K1701351-005	FTBL-SB-02-4-5.5-020817	8330B Fire Range Nitr	SOIL	10.120g	8ml	
K1701351-006	FTBL-SB-01D-0-0.5-020717	8330B Fire Range Nitr	SOIL	10.320g	8ml	
K1701351-007	FTBL-SB-01D-0.5-2-020717	8330B Fire Range Nitr	SOIL	10.212g	8ml	
K1701351-008	FTBL-SB-01D-4-6-020717	8330B Fire Range Nitr	SOIL	10.220g	8ml	
K1701351-009	FTBL-SB-01-0-0.5-020717	8330B Fire Range Nitr	SOIL	10.159g	8ml	
K1701351-010	FTBL-SB-01-0.5-2-020717	8330B Fire Range Nitr	SOIL	10.017g	8ml	
K1701351-011	FTBL-SB-01-4-6-020717	8330B Fire Range Nitr	SOIL	10.189g	8ml	
K1701351-012	FTBL-SB-03-0-0.5-020817	8330B Fire Range Nitr	SOIL	10.090g	8ml	
K1701351-013	FTBL-SB-03-6-8-020817	8330B Fire Range Nitr	SOIL	10.026g	8ml	
K1701351-015	FTBL-SB03-28-30-020917	8330B Fire Range Nitr	SOIL	10.048g	8ml	
KWG1701417-1	Duplicate	8330B Fire Range Nitr	SOIL	10.004g	8ml	
KWG1701417-2	Triplicate	8330B Fire Range Nitr	SOIL	10.047g	8ml	
KWG1701417-3	Matrix Spike	8330B Fire Range Nitr	SOIL	10.007g	8ml	
KWG1701417-4	Duplicate Matrix Spike	8330B Fire Range Nitr	SOIL	10.017g	8ml	
KWG1701417-5	Standard Reference Material	8330B Fire Range Nitr	SOIL	10.036g	8ml	
KWG1701417-6	Storage Blank	8330B Fire Range Nitr	SOIL	10.317g	8ml	
KWG1701417-7	Storage Blank	8330B Fire Range Nitr	SOIL	10.084g	8ml	
KWG1701417-8	Lab Control Sample	8330B Fire Range Nitr	SOIL	10.000g	8ml	
KWG1701417-9	Method Blank	8330B Fire Range Nitr	SOIL	10.000g	8ml	

Lab Code	Parent Lab Code	Comments
KWG1701417-1	K1701351-001	KQ1701866-01
KWG1701417-2	K1701351-001	KQ1701866-02
KWG1701417-3	K1701351-001	KQ1701866-03
KWG1701417-4	K1701351-001	KQ1701866-04
KWG1701417-5		KQ1701866-05
KWG1701417-6		KQ1701866-06
KWG1701417-7		KQ1701866-07

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
K1701351-001	1587763	16-OLC-02-14C	40uL			(b) (6)
K1701351-002	1587764	16-OLC-02-14C	40uL			

Comments:

Started By: (b) (6) Assisted By:

Completed By: (b) (6) Assisted By:

Reviewed By: Date: 3/28/17 Storage:

Training: Yes / No; Yes / No

Chain of Custody

Relinquished By: (b) (6) Date: 3-1-2017

Received By: Date: 3-1-2017

Extracts Examined: Yes / No

Group ID:	KWG1701417	**Prep Method:**	METHOD	**Prep Date:**	02/21/17 17:05
Department:	Organic LC				

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
K1701351-003	1587765	16-OLC-02-14C	40uL			(b) (6)
K1701351-004	1587766	16-OLC-02-14C	40uL			
K1701351-005	1587767	16-OLC-02-14C	40uL			
K1701351-006	1587768	16-OLC-02-14C	40uL			
K1701351-007	1587769	16-OLC-02-14C	40uL			
K1701351-008	1587770	16-OLC-02-14C	40uL			
K1701351-009	1587771	16-OLC-02-14C	40uL			
K1701351-010	1587772	16-OLC-02-14C	40uL			
K1701351-011	1587773	16-OLC-02-14C	40uL			
K1701351-012	1587774	16-OLC-02-14C	40uL			
K1701351-013	1587775	16-OLC-02-14C	40uL			
K1701351-015	1587776	16-OLC-02-14C	40uL			
KWG1701417-1	1587777	16-OLC-02-14C	40uL			
KWG1701417-2	1587778	16-OLC-02-14C	40uL			
KWG1701417-3	1587779	16-OLC-02-14C	40uL	14-OLC-02-43M	20uL	
KWG1701417-4	1587780	16-OLC-02-14C	40uL	14-OLC-02-43M	20uL	
KWG1701417-5	1587781	16-OLC-02-14C	40uL			
KWG1701417-6	1587782	16-OLC-02-14C	40uL			
KWG1701417-7	1587783	16-OLC-02-14C	40uL			
KWG1701417-8	1587784	16-OLC-02-14C	40uL	14-OLC-02-43M	20uL	
KWG1701417-9	1587785	16-OLC-02-14C	40uL			

Comments:

Started By: (b) (6)

Assisted By:

Training

Yes No

Completed By:

Assisted By:

Yes No

Reviewed By: (b) (6)

Date: 3/6/17

Storage:

Chain of Custody

Relinquished By: (b) (6)

Date: 3.1.2017

Extracts Examined

Received By:

Date: 3.1.2017

Yes No

Preparation Information

Group ID:	KWG1701417	**Prep Method:**	**Prep Date:**
Department:	Organic LC	EPA 3535A	02/21/17

#	Lab Code	Client ID	B#	√	Product	Matrix	Amt. Ext. g	pH	Int. Vol.	Final Vol. mL	Surr. Added µL	Spike Added µL
1	K1701351-001	FD-020717			8330B Fire Range Nitr	SOIL	see pre-prep	n/a	n/a	8	40	
2	K1701351-002	FD-020817			8330B Fire Range Nitr	SOIL						
3	K1701351-003	FTBL-SB-02-0-0.5-020817			8330B Fire Range Nitr	SOIL						
4	K1701351-004	FTBL-SB-02-0.5-2-020817			8330B Fire Range Nitr	SOIL						
5	K1701351-005	FTBL-SB-02-4-5.5-020817			8330B Fire Range Nitr	SOIL						
6	K1701351-006	FTBL-SB-01D-0-0.5-020717			8330B Fire Range Nitr	SOIL						
7	K1701351-007	FTBL-SB-01D-0.5-2-020717			8330B Fire Range Nitr	SOIL						
8	K1701351-008	FTBL-SB-01D-4-6-020717			8330B Fire Range Nitr	SOIL						
9	K1701351-009	FTBL-SB-01-0-0.5-020717			8330B Fire Range Nitr	SOIL						
10	K1701351-010	FTBL-SB-01-0.5-2-020717			8330B Fire Range Nitr	SOIL						
11	K1701351-011	FTBL-SB-01-4-6-020717			8330B Fire Range Nitr	SOIL						
12	K1701351-012	FTBL-SB-03-0-0.5-020817			8330B Fire Range Nitr	SOIL						
13	K1701351-013	FTBL-SB-03-6-8-020817			8330B Fire Range Nitr	SOIL						
14	K1701351-015	FTBL-SB03-28-30-020917			8330B Fire Range Nitr	SOIL						
15	KWG1701417-1	Duplicate K1701351-001			8330B Fire Range Nitr	SOIL						
16	KWG1701417-2	Triplicate K1701351-001			8330B Fire Range Nitr	SOIL						
17	KWG1701417-3	Matrix Spike K1701351-001			8330B Fire Range Nitr	SOIL						20
18	KWG1701417-4	Duplicate Matrix Spike K1701351-001			8330B Fire Range Nitr	SOIL						20

Comments:

Surrogate ID: 16-OLC-02-14C 1000 ppm XP 5-31-17

Spike ID: 14-OLC-02-43M 1000 ppm XP 04-31-18

Witness: (b) (6) 2/21/17

Started By: (b) (6)

Completed By: [redacted]

Assisted By: (b) (6)

Assisted By:

Group ID:	KWG1701417	**Prep Method:**	**Prep Date:**
Department:	Organic LC	EPA 3535A	02/21/17

#	Lab Code	Client ID	B#	√	Product	Matrix	Amt. Ext. g	pH	Int. Vol.	Final Vol. mL	Surr. Added mL	Spike Added mL
19	KWG1701417-5	Standard Reference Material	—		8330B Fire Range Nitr	SOIL	see pre-prep	N/a	N/a	8	40	—
20	KWG1701417-6	Storage Blank GB1	—		8330B Fire Range Nitr	SOIL	↓	↓	↓	↓	↓	—
21	KWG1701417-7	Storage Blank GB2	—		8330B Fire Range Nitr	SOIL	↓	↓	↓	↓	↓	—
22	KWG1701417-8	Lab Control Sample	—		8330B Fire Range Nitr	SOIL	↓	↓	↓	↓	↓	20
23	KWG1701417-9	Method Blank	—		8330B Fire Range Nitr	SOIL	↓	↓	↓	↓	↓	—

Comments:

Surrogate ID: 16-OLC-02-14C 1000 ppm xp 05.31.17

Spike ID: 14-OLC-02-43M 1000 ppm xp 04.31.18

Witness: (b) (6) /17

Started By: (b) (6) Assisted By:

Completed By: Assisted By:

Additional Prep Information For Nitroaromatics and Nitramines by HPLC – SOP: SOC-8330B (rev. 4) in Soil

Service Request # K1701351 **Stealth Work Group #** KWG1701417

Lims Run # 282053

Solvents/Reagents used:

0.1% Glacial Acetic Acid/ACN Lot# 17-OLC-01-03L

ACN Lot# 56207 **Reagent Water Lot#** 56160

Balance ID#: -49, -50

Sonic Bath Start (Time/Date/Initial): 17:05 02/21/17 [redacted]

Sonic Bath Stop (Time/Date/Initial): 12:30 02/22/17 [redacted]

Strata-X 33U 200mg/3mL cartridge Lot# S300-0219

Extraction Start (Time/Date/Initial): 1040 3.1.17 [redacted]

Extraction Stop (Time/Date/Initial): 1430 3/1/17

Final Volume Start (Time/Date/Initial): 1430 3/1/17 [redacted]

Final Volume Stop (Time/Date/Initial): 1525 3/1/17

Completion (Time/Date/Initial) 1525 3/1/17 [redacted] **Vial Storage:** TOP SHELF

Archived Extract Storage: LIME JELLO

Comments/Observations:

Bench Sheet Review Check List
❑ Hold Times Met (if no, Reason:)
❑ Stealth group and lims group concur
❑ Prep date, dept, method, product code correct in stealth
❑ Spike Information correct
❑ Weights/Volumes and units correct on raw and final bench sheets
❑ Sample IDs have been checked—Bottle numbers appended if required
❑ Names present for: Started by, Completed by, relinquished by, and witnessed by.
❑ Training has been circled
❑ Extract Storage recorded
❑ Additional Prep Sheet completely filled out (NA or line out Blanks)
❑ All clean-ups have been noted on additional prep sheet
❑ Signed service request with Form V, if applicable, has been attached

Pre-Prep Information Benchsheet

Prep Run #: 282053 **Prep Method:** **Team:** **Prep Due Date:** Feb-21-2017

#	Lab Code	Bottle	Test Name	Weight	Sample Comments	Test Comments
1	K1701351-001	.03	Fire Range Nitr	10.004g		PrepComments:APOSEY K-BALANCE-49
2	K1701351-002	.03	Fire Range Nitr	10.015g		PrepComments:DMadden K-Balance-50
3	K1701351-003	.03	Fire Range Nitr	10.078g		PrepComments:DMadden K-Balance-50
4	K1701351-004	.04	Fire Range Nitr	10.291g		PrepComments:DMadden K-Balance-50
5	K1701351-005	.04	Fire Range Nitr	10.120g		PrepComments:DMadden K-Balance-50
6	K1701351-006	.04	Fire Range Nitr	10.320g		PrepComments:DMadden K-Balance-50
7	K1701351-007	.04	Fire Range Nitr	10.212g		PrepComments:DMadden K-Balance-50
8	K1701351-008	.04	Fire Range Nitr	10.220g		PrepComments:DMadden K-Balance-50
9	K1701351-009	.04	Fire Range Nitr	10.159g		PrepComments:DMadden K-Balance-50
10	K1701351-010	.04	Fire Range Nitr	10.017g		PrepComments:DMadden K-Balance-50
11	K1701351-011	.04	Fire Range Nitr	10.189g		PrepComments:DMadden K-Balance-50
12	K1701351-012	.05	Fire Range Nitr	10.090g		PrepComments:DMadden K-Balance-50
13	K1701351-013	.05	Fire Range Nitr	10.026g		PrepComments:DMadden K-Balance-50
14	K1701351-015	.07	Fire Range Nitr	10.048g		PrepComments:DMadden K-Balance-50
15	K1701351-001 DUP KQ1701866-01	.03	Fire Range Nitr	10.004g		PrepComments:APOSEY K-BALANCE-49
16	K1701351-001 TRP KQ1701866-02	.03	Fire Range Nitr	10.047g		PrepComments:APOSEY K-BALANCE-49
17	K1701351-001 MS KQ1701866-03	.03	Fire Range Nitr	10.007g		PrepComments:APOSEY K-BALANCE-49
18	K1701351-001 DMS KQ1701866-04	.03	Fire Range Nitr	10.017g		PrepComments:APOSEY K-BALANCE-49
19	KQ1701866-05 SRM KQ1701866-05	.01	Fire Range Nitr	10.036	17-OLC-01-13C xp 2.28.17	
20	KQ1701866-06 MB KQ1701866-06	.01	Fire Range Nitr	10.317	Samples 1-10	
21	KQ1701866-07 MB KQ1701866-07	.02	Fire Range Nitr	10.084	11-13, 15	

*% Solids is a calculated field meant solely as a reference value for verifying the presence of Total Solids in calculations

014602 Page 2968 of 4534 11/01/2018

Date: 2/9/2017 XC-254 YC-210

ALS Environmental

ICAL Date: 2/9/2017

By: AE

Injection Log

ICAL ID: CAL 15185 (210) CAL 15192 (254)

Stealth ID: N/A **LC8 - Agilent 1260** **LIMS ID:** N/A

2nd Review:

Column: Ultra Aromax SN: 150411353J

Mobile Phases A: MeOH Lot#: 56189 **B:** ACN Lot#: 56207 **C:** H_2O Lot#: 56160 NA

		File Name	Method	Dilution	R	Comments
1	PRIMER	0209000101	8330BXC.M	NA		
2	PRIMER	0209000102	8330BXC.M	NA	X	
3	IB	0209000103	8330BXC.M	NA	X	
4	17-OLC-01-09J 20 PPB	0209000104	8330BXC.M	NA	X	
5	17-OLC-01-09I 50 PPB	0209000105	8330BXC.M	NA	X	
6	17-OLC-01-09H 100 PPB	0209000106	8330BXC.M	NA	X	
7	17-OLC-01-09G 200 PPB	0209000107	8330BXC.M	NA	X	
8	17-OLC-01-09F 500 PPB	0209000108	8330BXC.M	NA	X	
9	17-OLC-01-09E 1000 PPB	0209000109	8330BXC.M	NA	X	
10	17-OLC-01-09D 2000 PPB	0209000110	8330BXC.M	NA	X	
11	17-OLC-01-09C 5000 PPB	0209000111	8330BXC.M	NA	X	
12	17-OLC-01-09B 10000 PPB	0209000112	8330BXC.M	NA	X	
13	17-OLC-01-09A 20000 PPB	0209000113	8330BXC.M	NA	X	
14	IB	0209000114	8330BXC.M	NA	X	
15	17-OLC-01-09K 1000 PPB ICV	0209000115	8330BXC.M	NA	X	
16	IB	0209000116	8330BXC.M	NA	X	

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000103.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 15:23:38 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:39:27 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
Target Compounds					
1) T	Nitroglycerin	0.000	0	N.D.	ug/L
2) T	PETN	0.000	0	N.D.	ug/L d

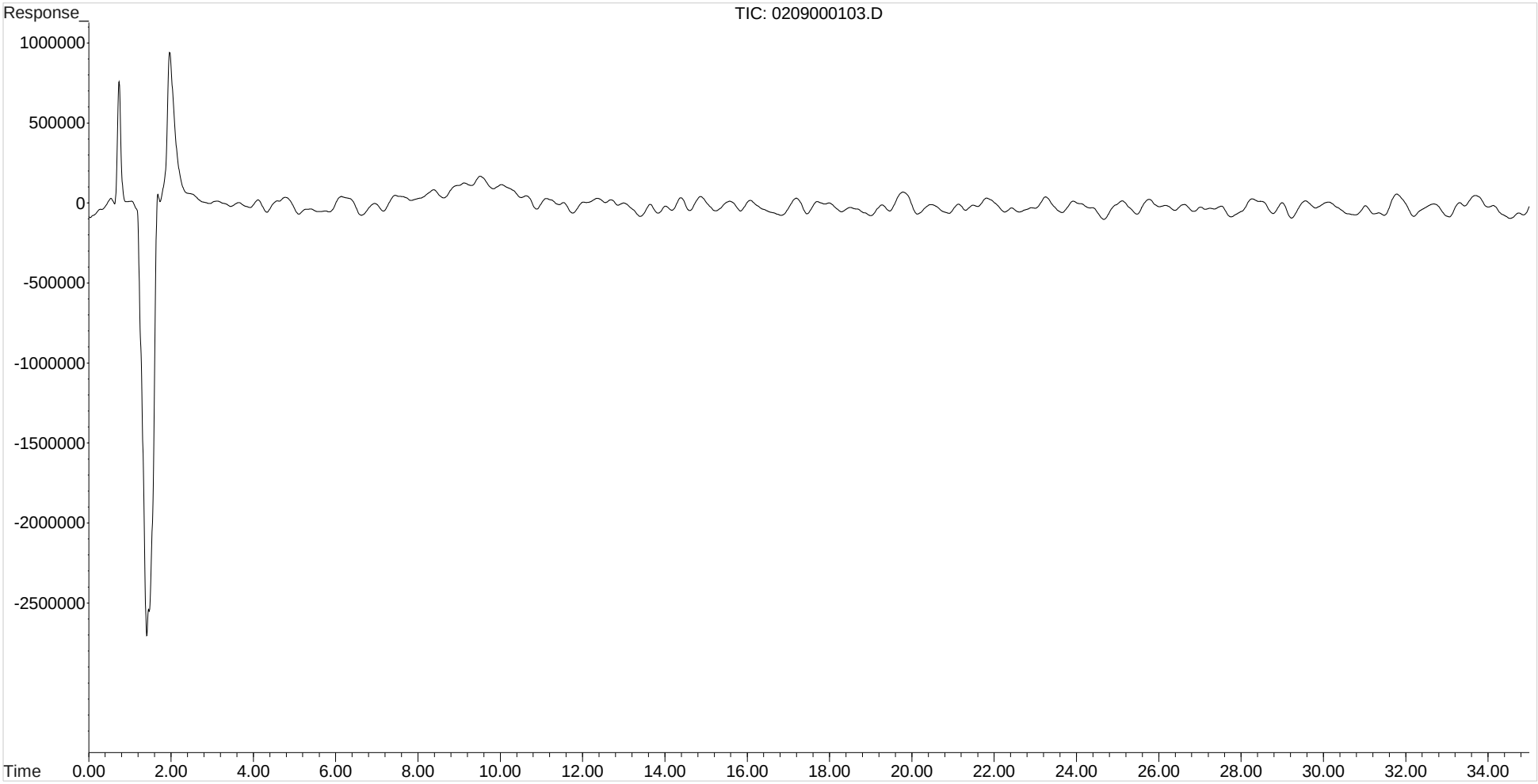
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000103.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 15:23:38 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:39:27 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:33:41 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	8.147	652772	9.384 ug/L m
Target Compounds				
1) T	Nitroglycerin	3.793	1642816	78.604 ug/L m
2) T	PETN	6.980	1691788	20.719 ug/L m

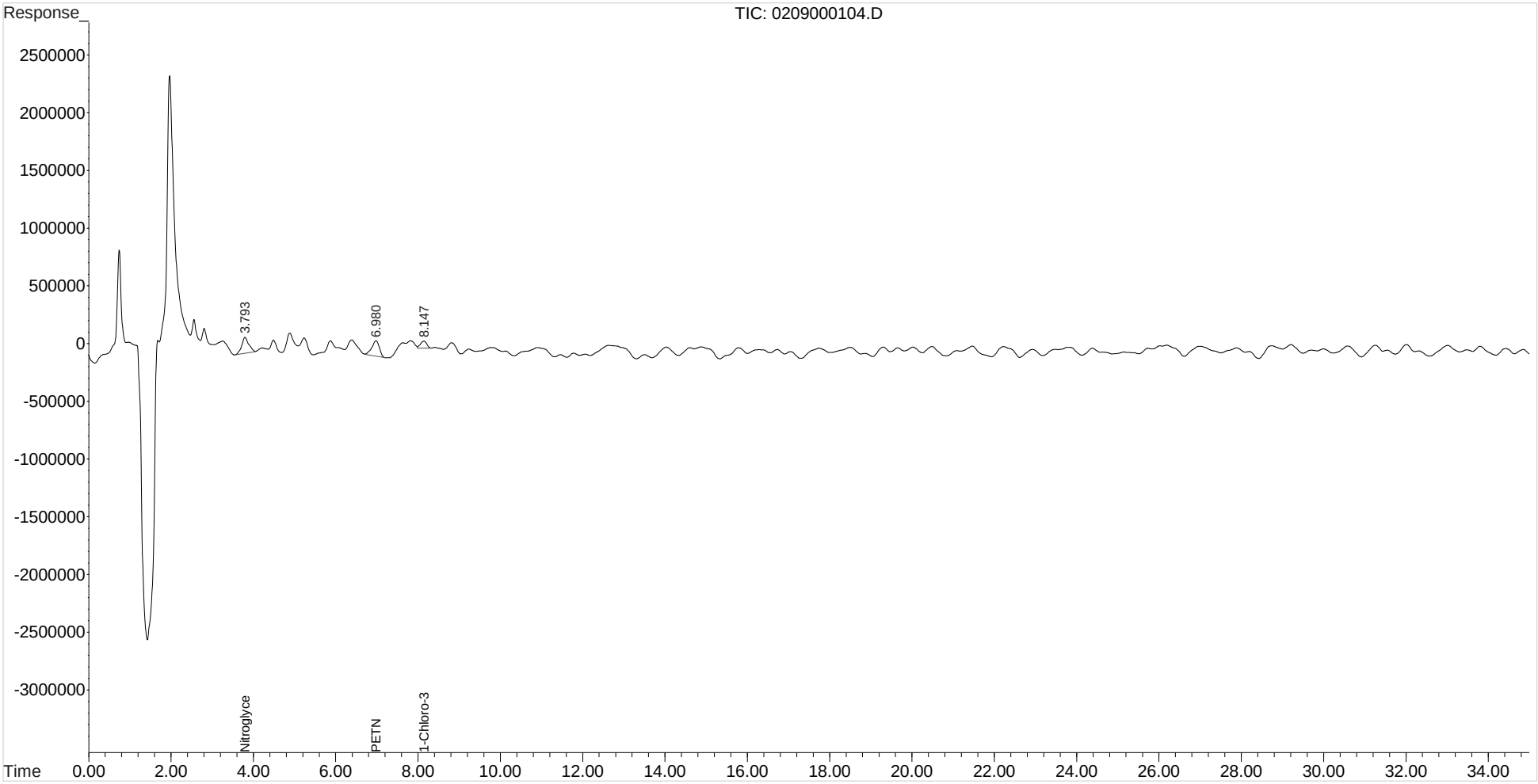
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:33:41 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

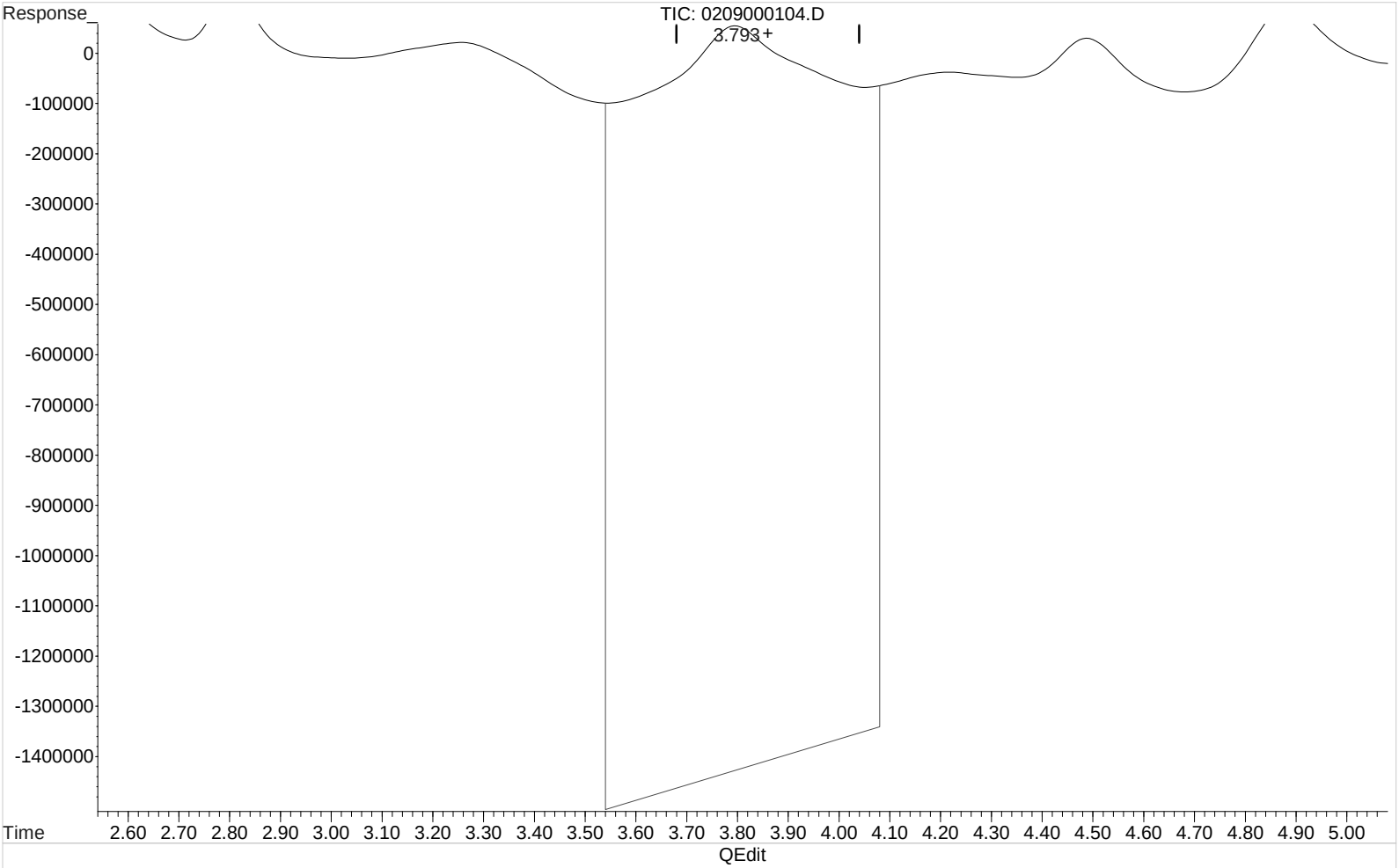


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:44 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.793min 2157.292 ug/L

response 45086986

Manual Integration:

Before

02/10/17

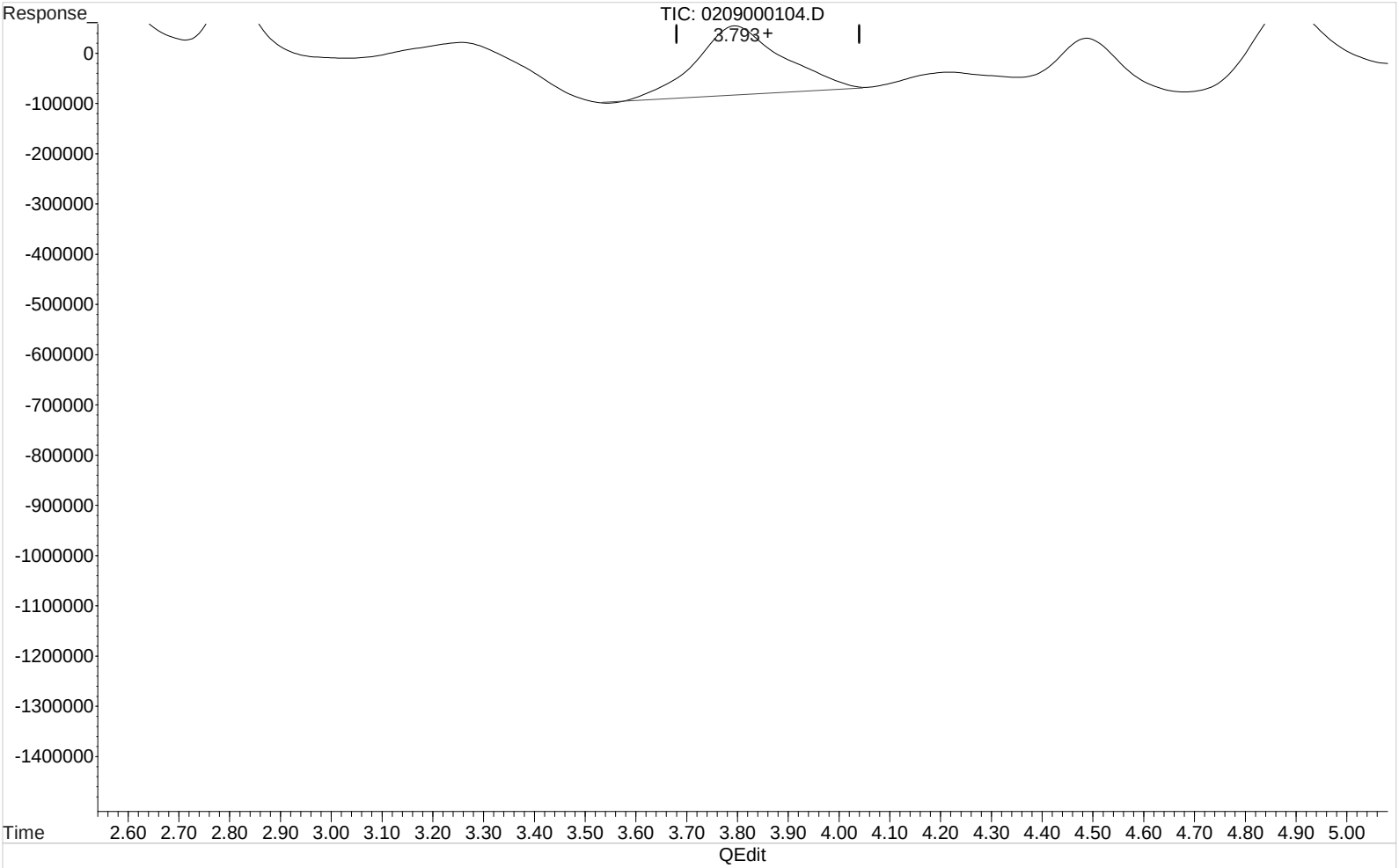
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:44 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.793min 78.604 ug/L m

response 1642816

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

(b) (6)

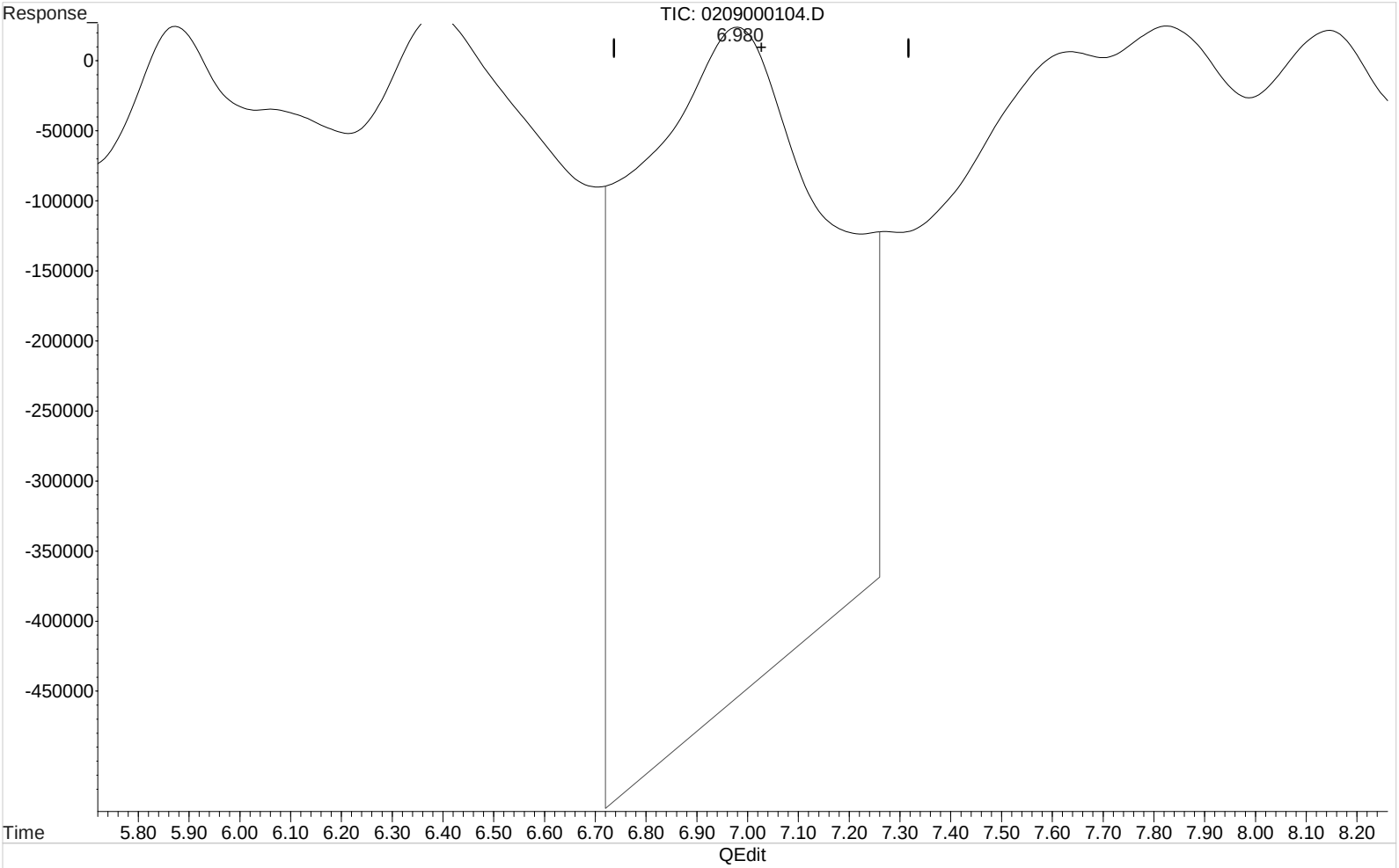
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:44 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.980min 156.268 ug/L

response 12760096

Manual Integration:

Before

02/10/17

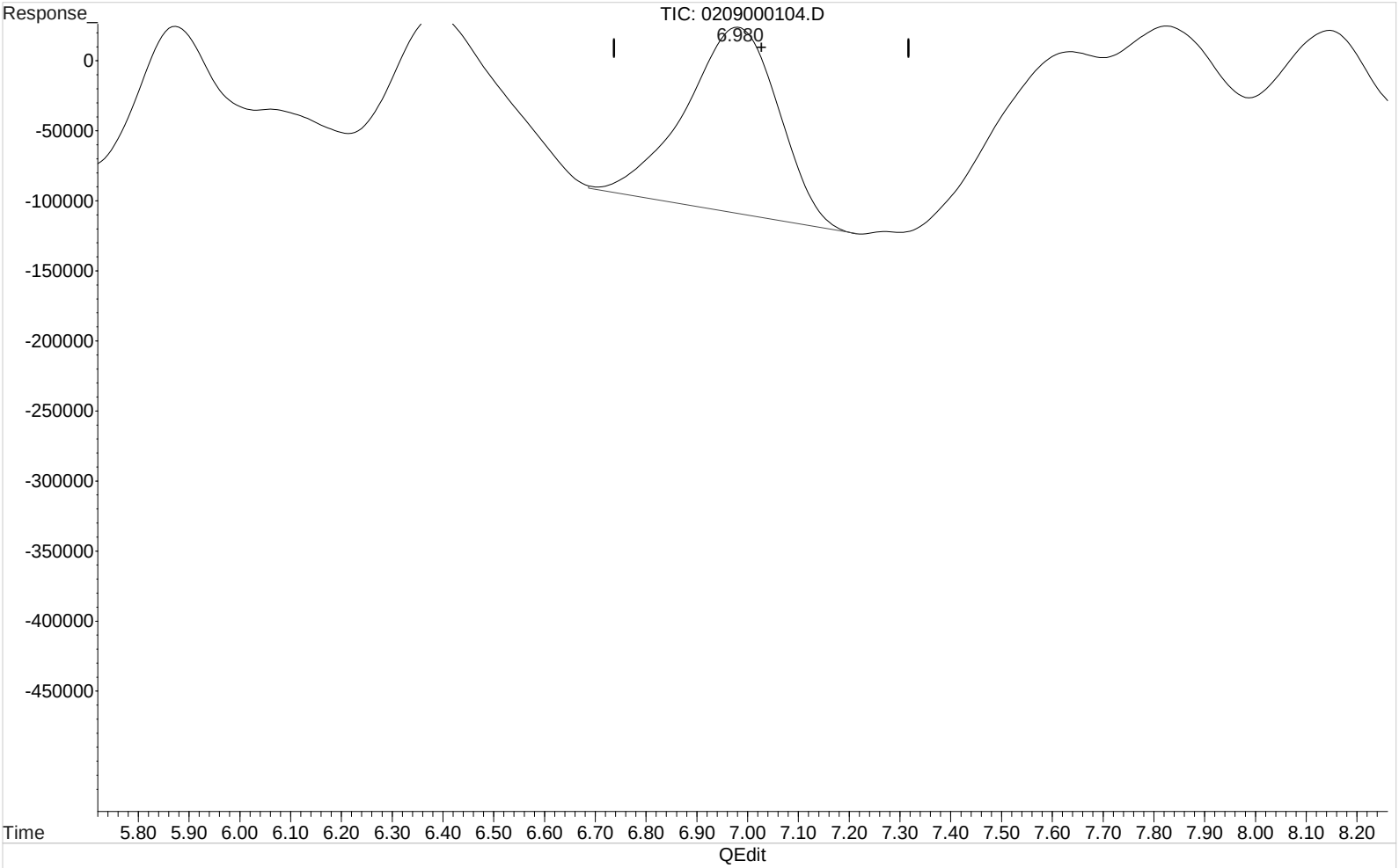
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:44 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.980min 20.719 ug/L m

response 1691788

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

(b) (6)

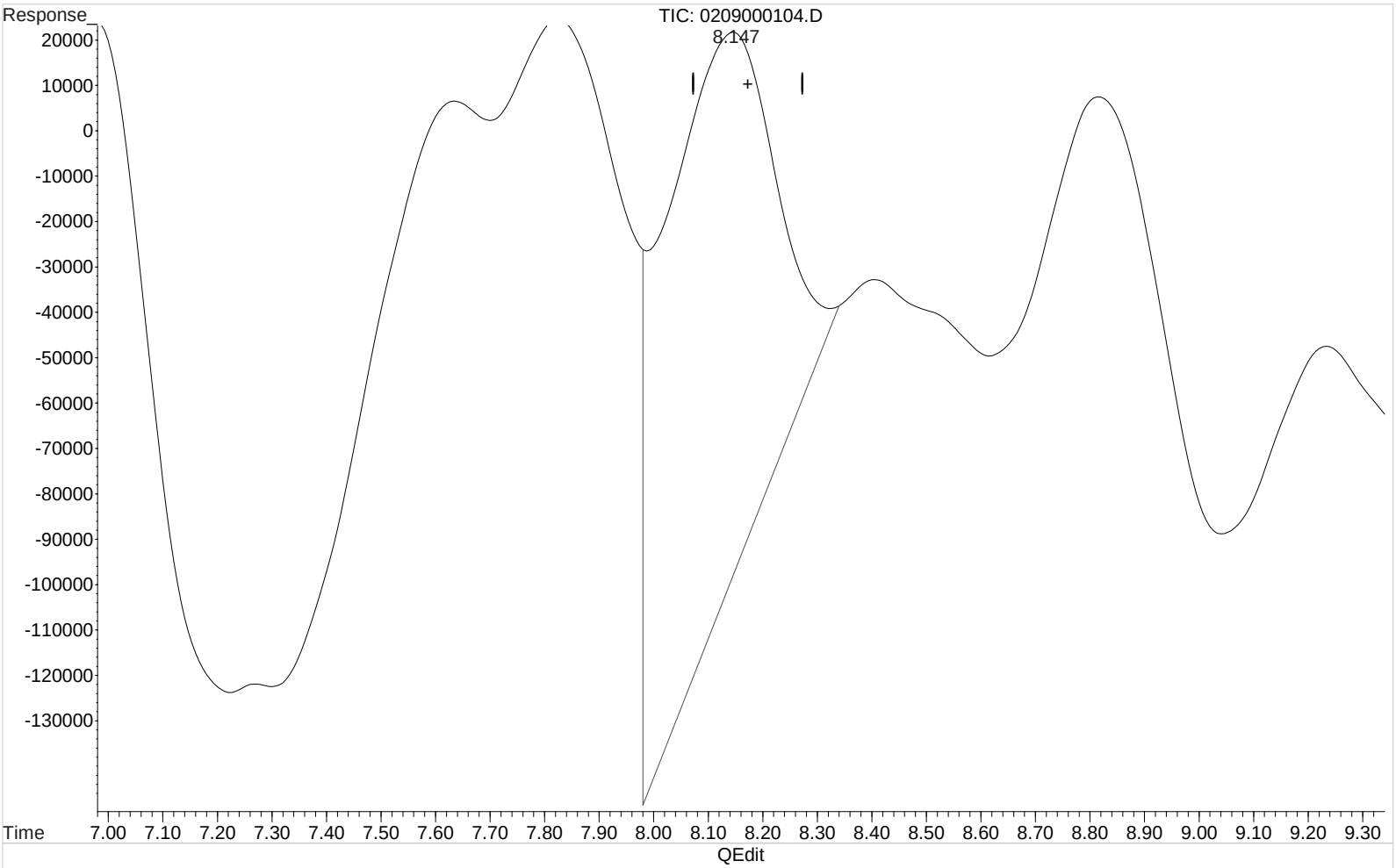
/13/17

/17/17

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:44 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

8.147min 26.209 ug/L

response 1823212

Manual Integration:

Before

02/10/17

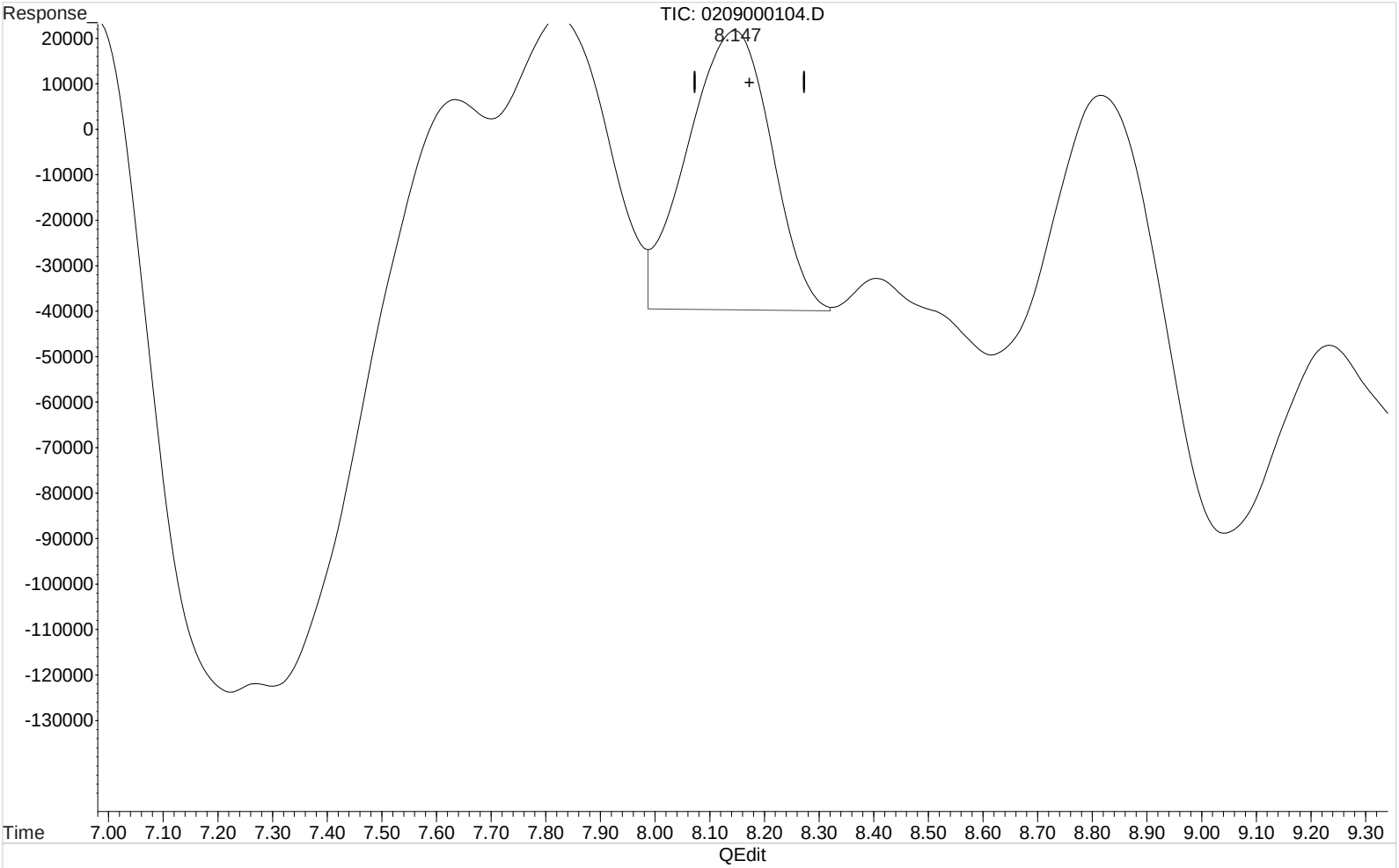
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:44 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

8.147min 9.384 ug/L m

response 652772

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	8.133	3061814	43.366 ug/L m
Target Compounds				
1) T	Nitroglycerin	3.793	1022712	48.804 ug/L m
2) T	PETN	6.993	3642903	44.021 ug/L m

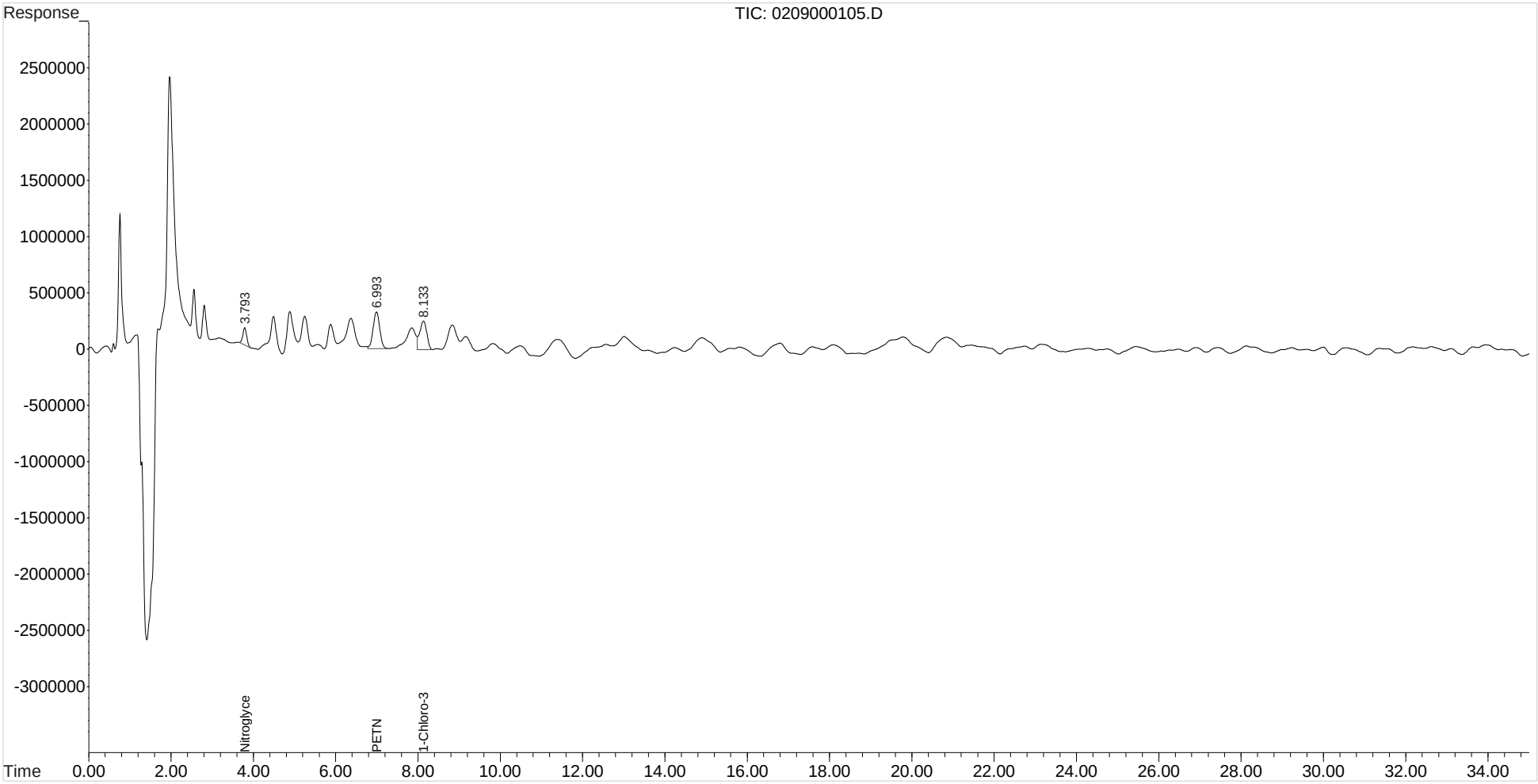
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

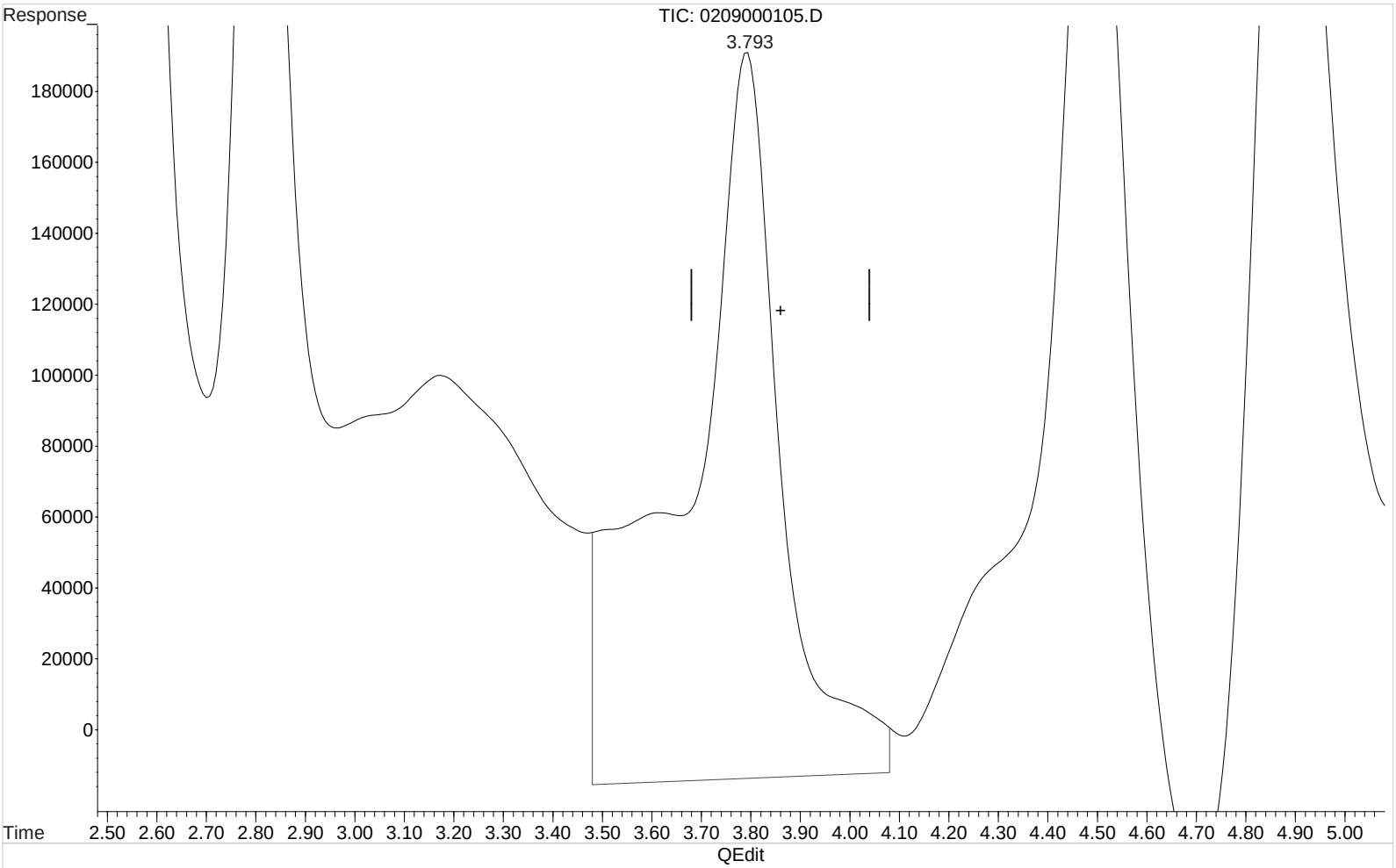


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:25 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.793min 133.146 ug/L

response 2790132

Manual Integration:

Before

02/10/17

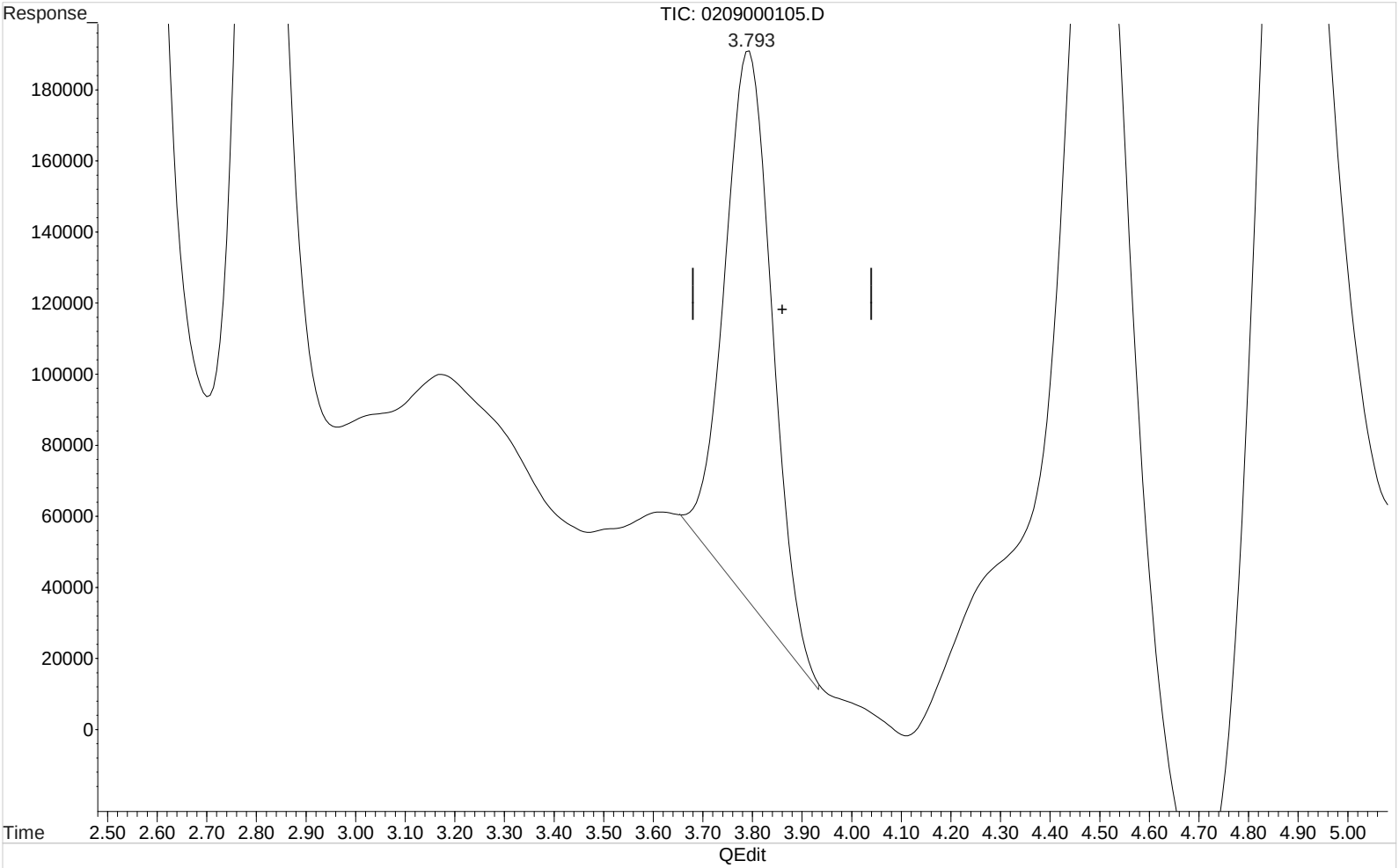
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:25 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.793min 48.804 ug/L m

response 1022712

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

(b) (6)

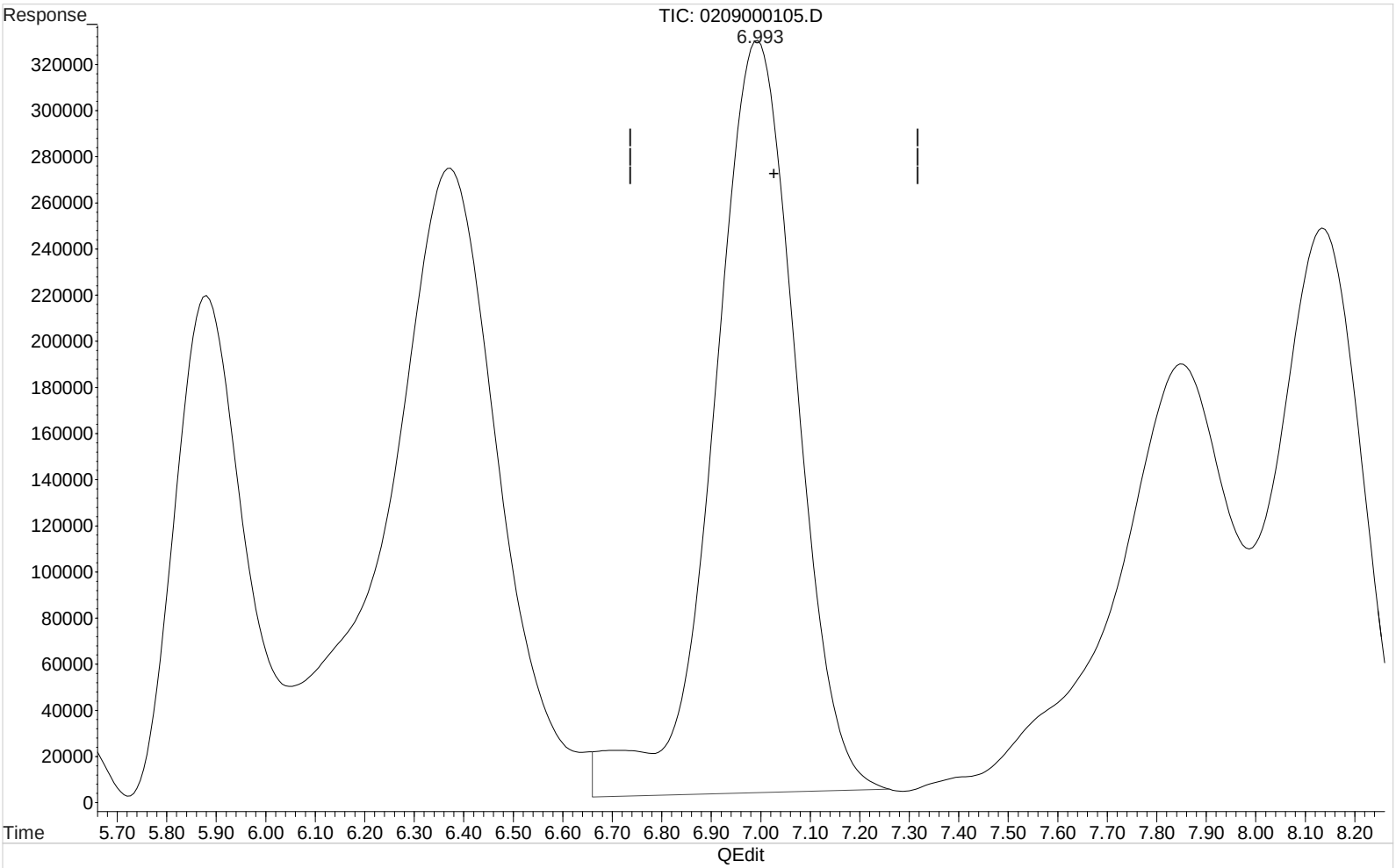
2/13/17

2/17/17

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:25 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.993min 45.943 ug/L

response 3802017

Manual Integration:

Before

02/10/17

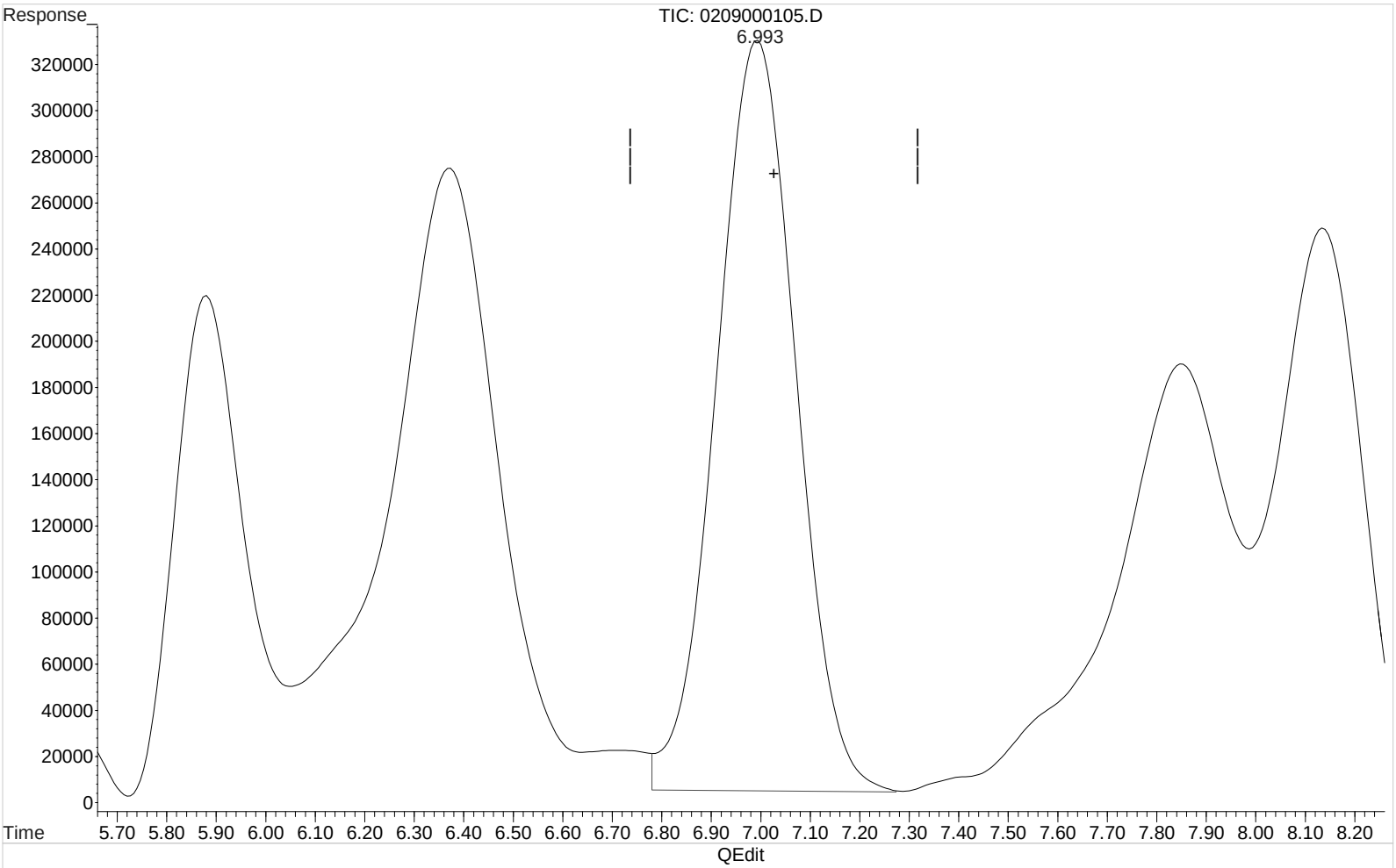
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:25 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.993min 44.021 ug/L m

response 3642903

Manual Integration:

After

BLC

02/10/17

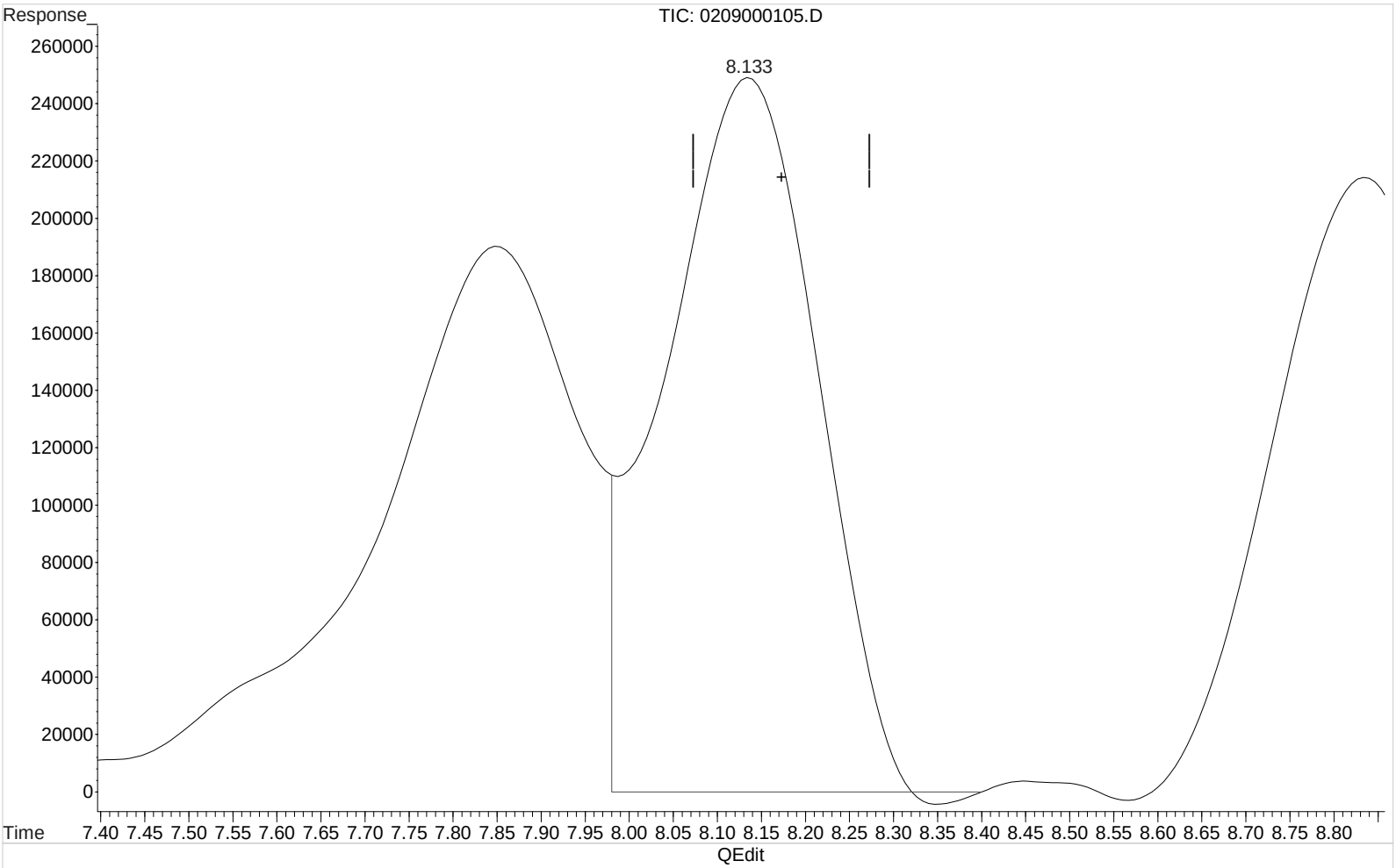
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:25 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.133min 41.867 ug/L

response 2955960

Manual Integration:

Before

02/10/17

(+) = Expected Retention Time

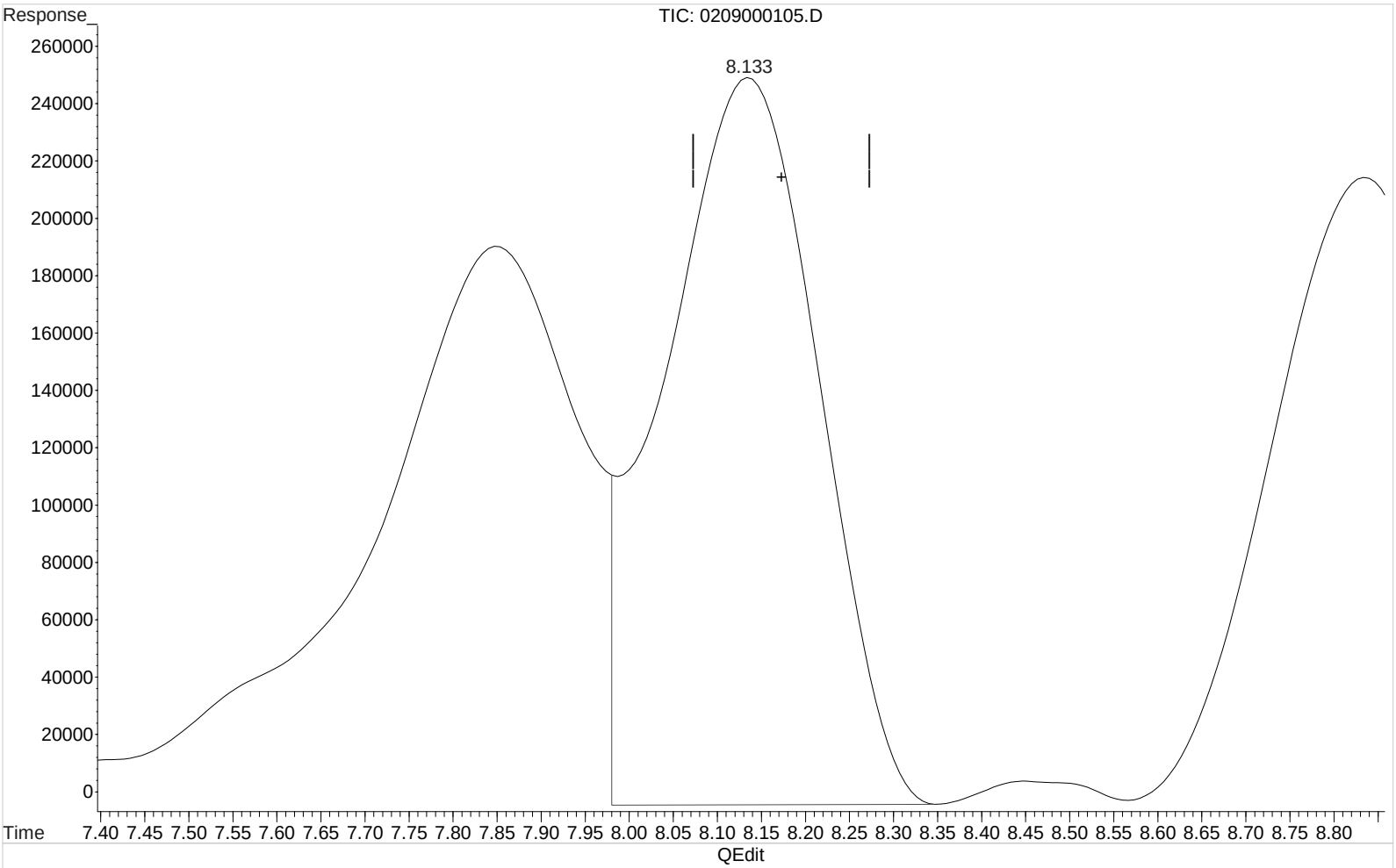
020917_Short_8330B@210.M Fri Feb 10 10:32:12 2017 Page: 1

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:25 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.133min 43.366 ug/L m

response 3061814

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:09 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	8.147	7680230	110.160	ug/L	m
Target Compounds						
1) T	Nitroglycerin	3.787	1979030	93.695	ug/L	m
2) T	PETN	6.987	8553205	103.854	ug/L	m

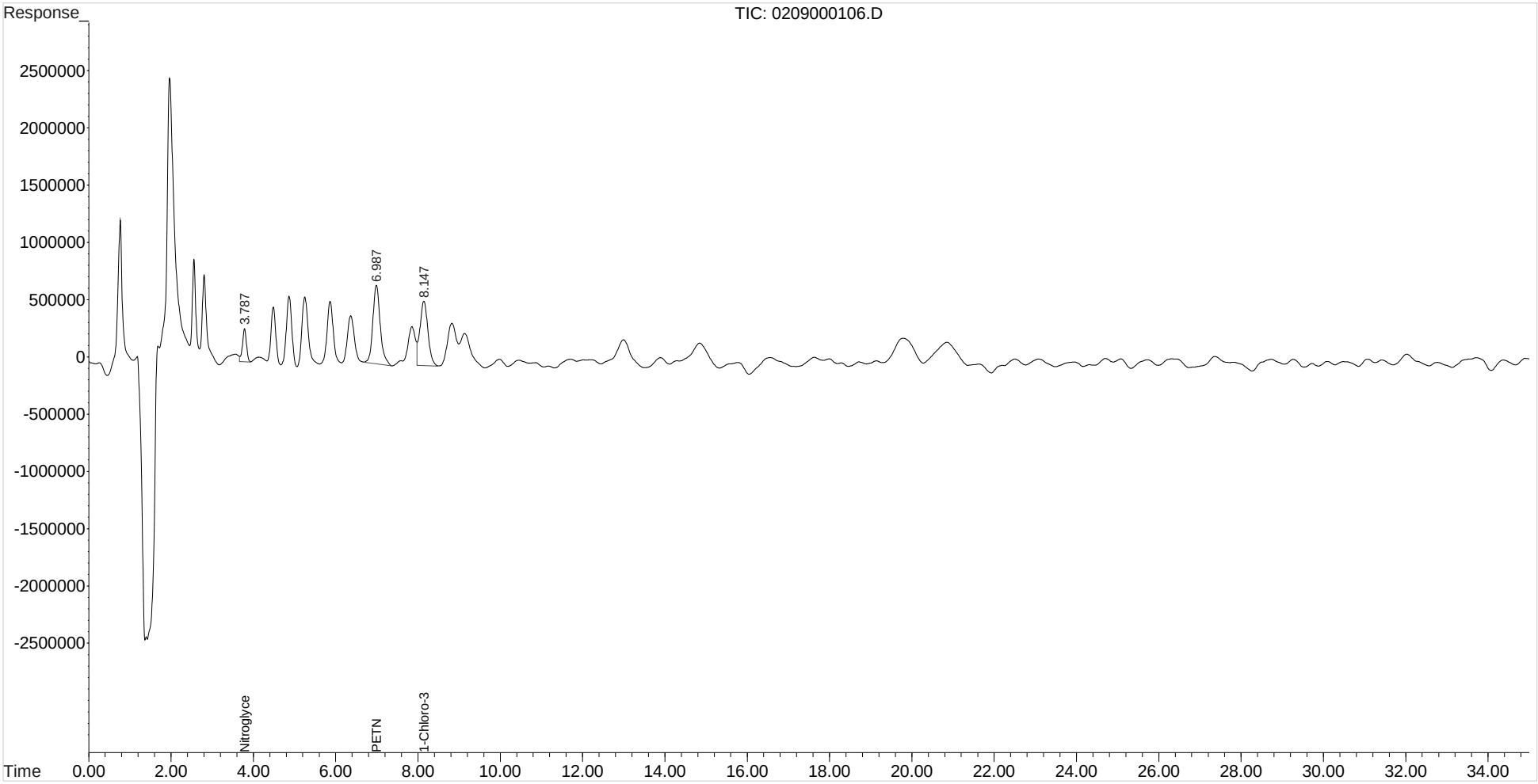
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:09 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

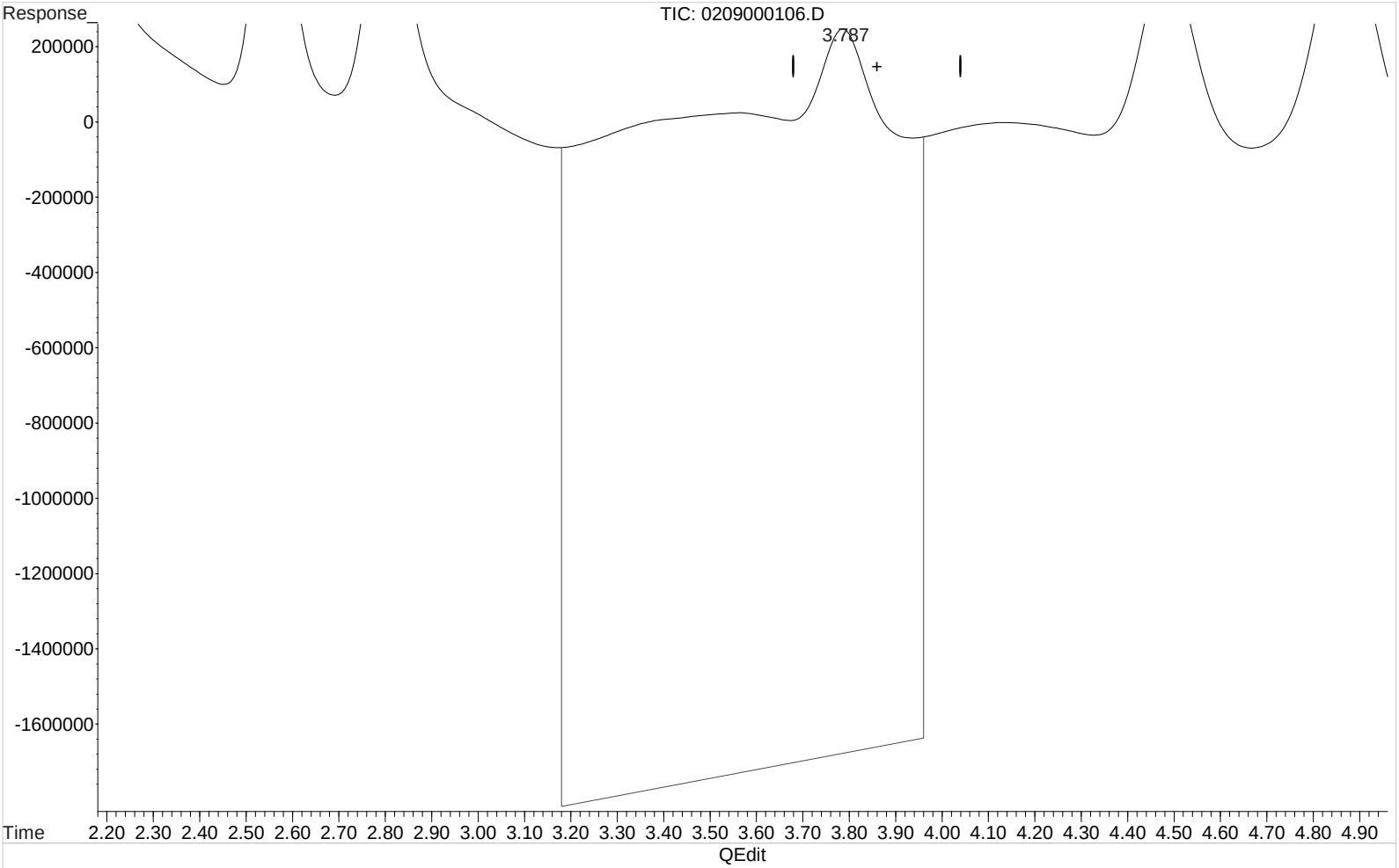


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:30:06 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.787min 3880.314 ug/L

response 81959818

Manual Integration:

Before

02/10/17

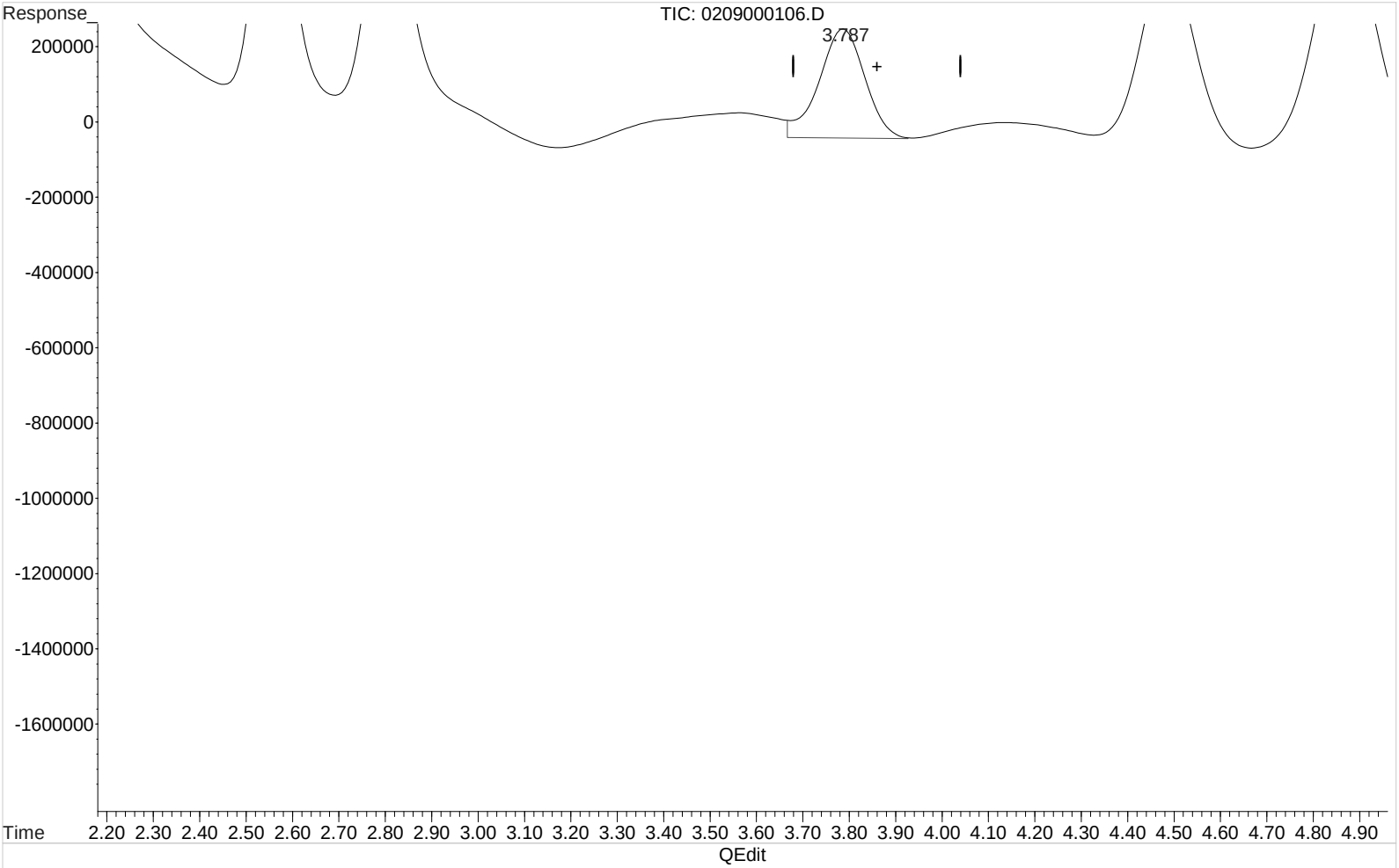
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:30:06 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.787min 93.695 ug/L m

response 1979030

Manual Integration:

After

BLC

02/10/17

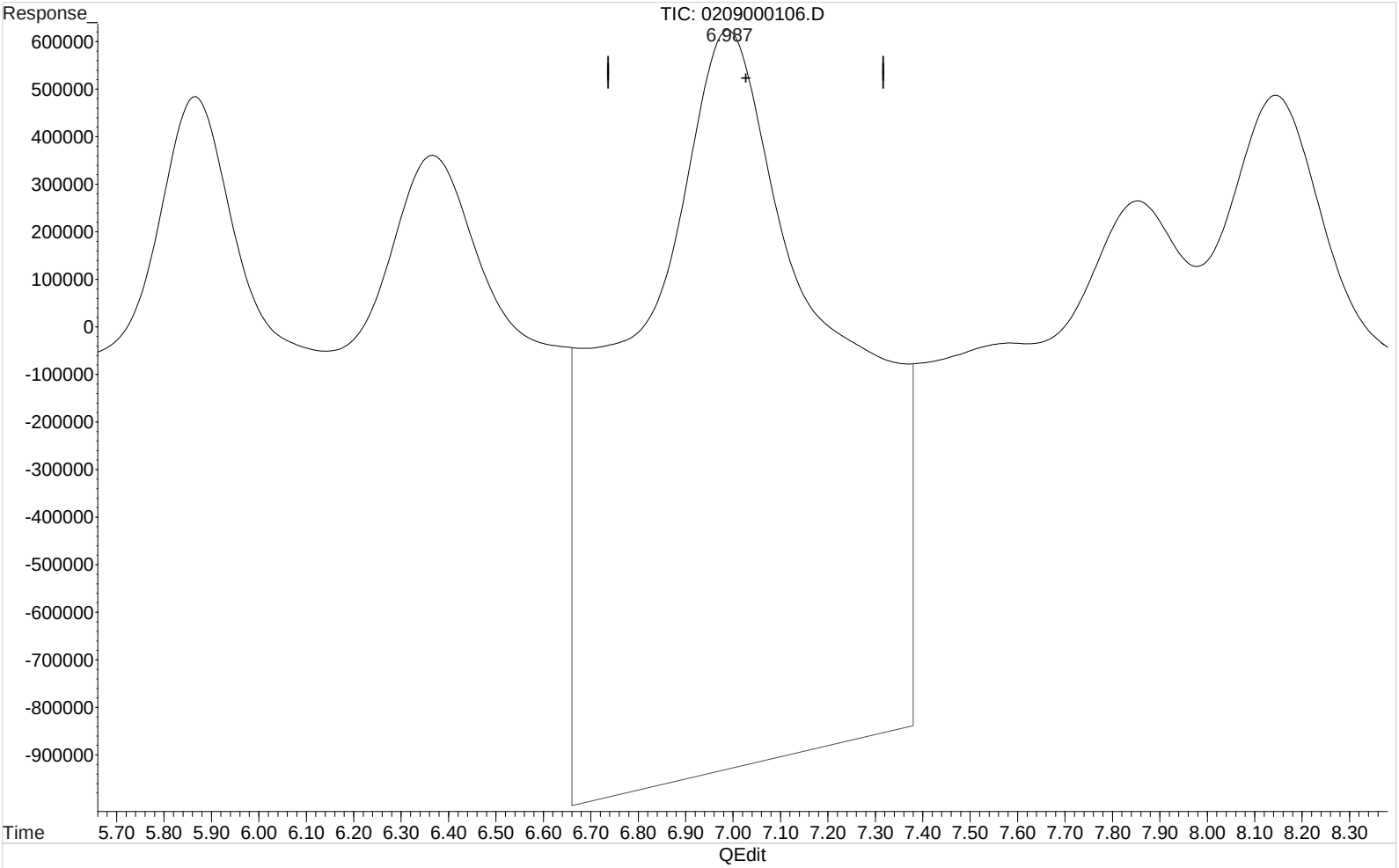
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:30:06 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.987min 555.668 ug/L

response 45763665

Manual Integration:

Before

02/10/17

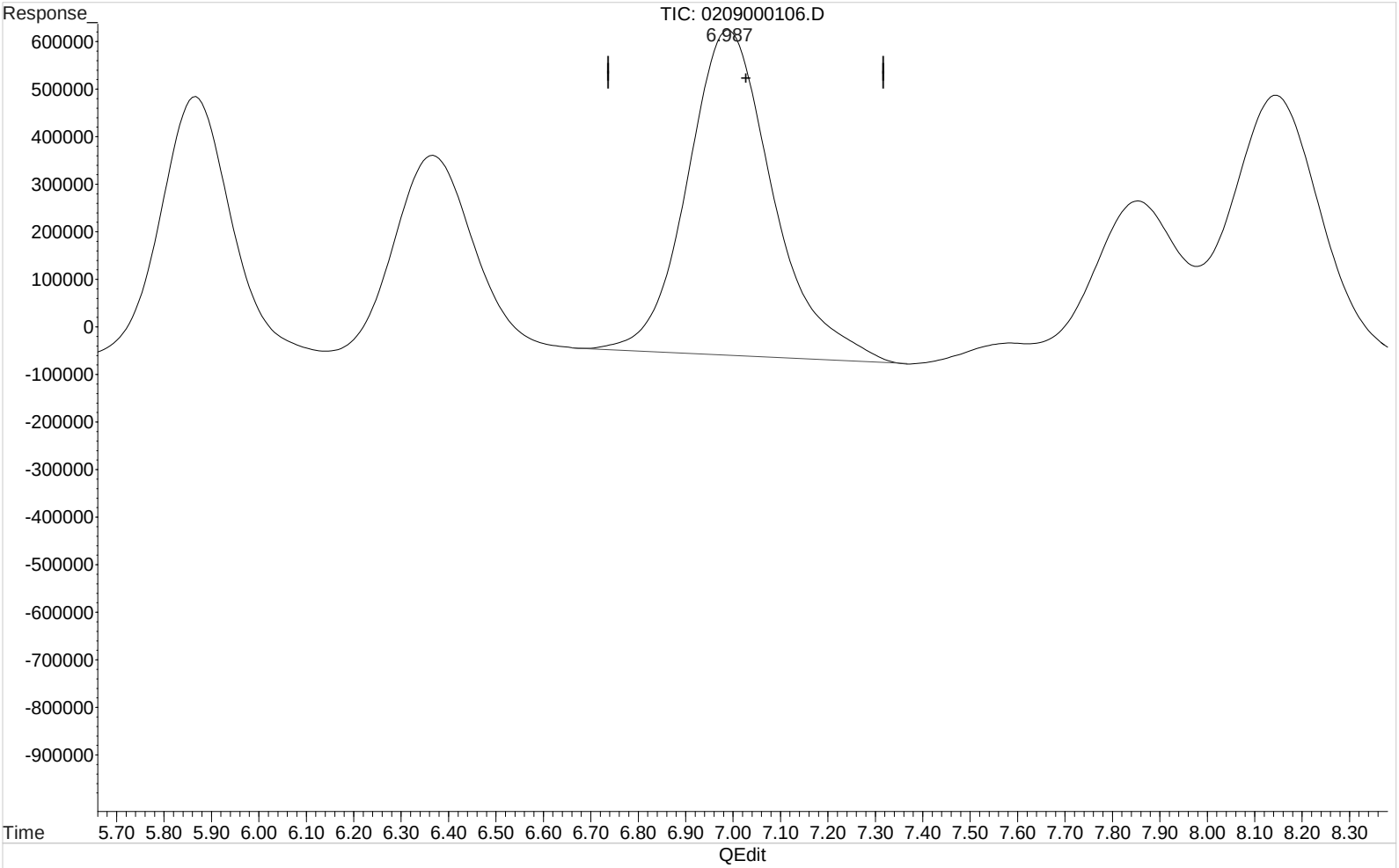
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:30:06 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.987min 103.854 ug/L m

response 8553205

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

(b) (6)

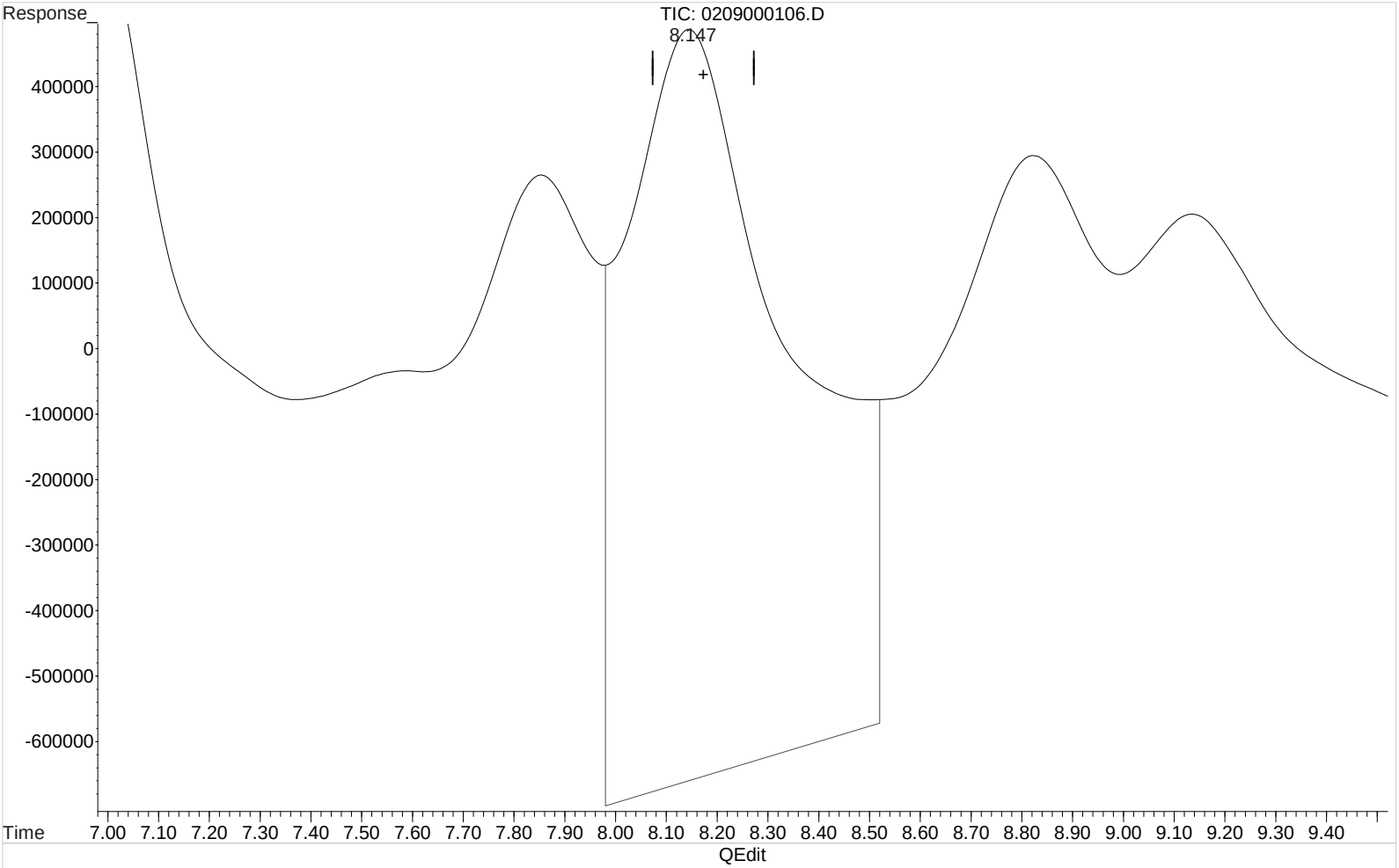
2/13/17

2/17/17

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:30:06 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.147min 368.214 ug/L

response 25671459

Manual Integration:

Before

02/10/17

(+) = Expected Retention Time

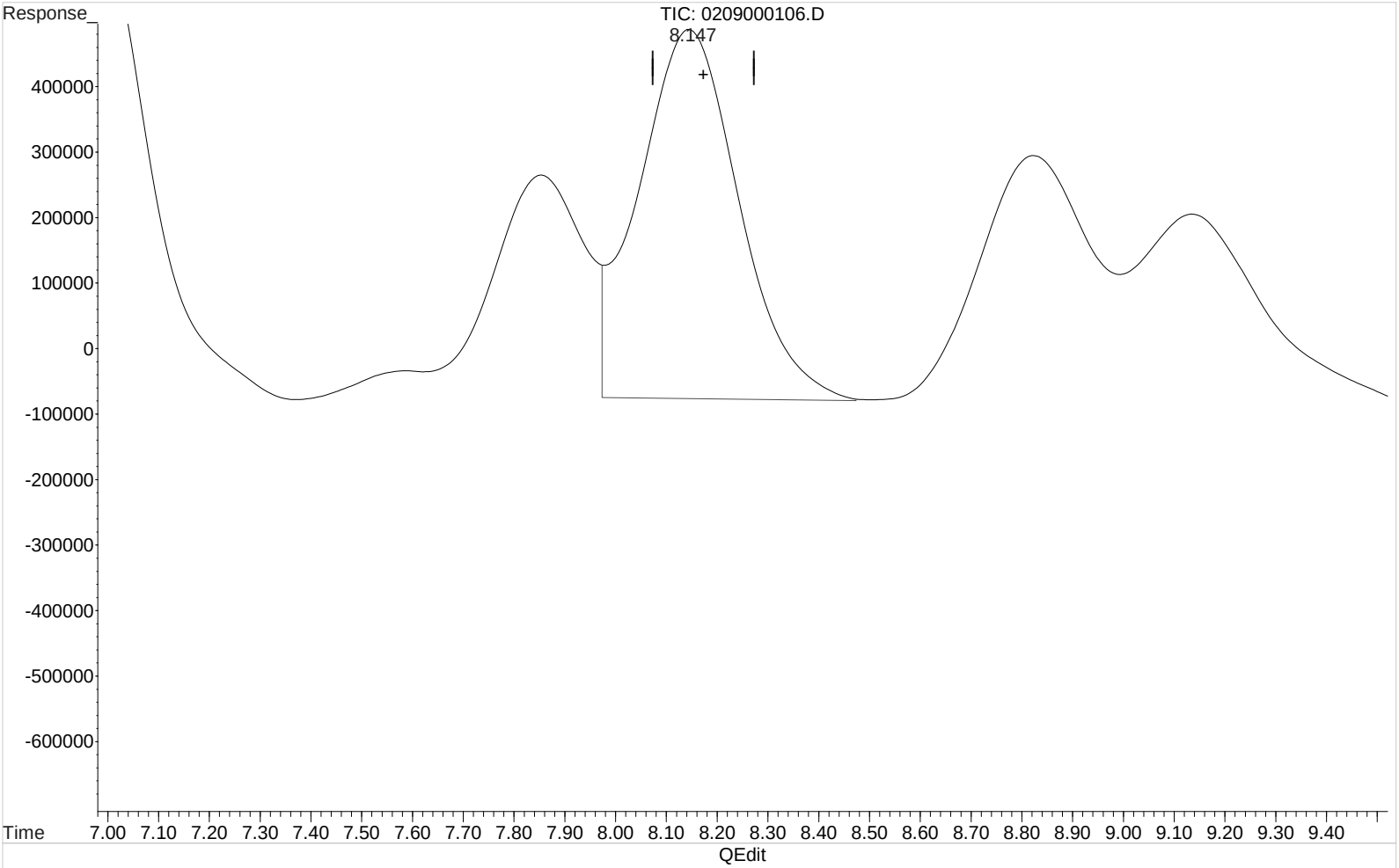
020917_Short_8330B@210.M Fri Feb 10 10:31:05 2017 Page: 1

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:30:06 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

8.147min 110.160 ug/L m

response 7680230

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:29:46 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	8.133	13561422	193.631 ug/L m
Target Compounds				
1) T	Nitroglycerin	3.780	3978902	186.571 ug/L m
2) T	PETN	6.980	17566508	215.684 ug/L m

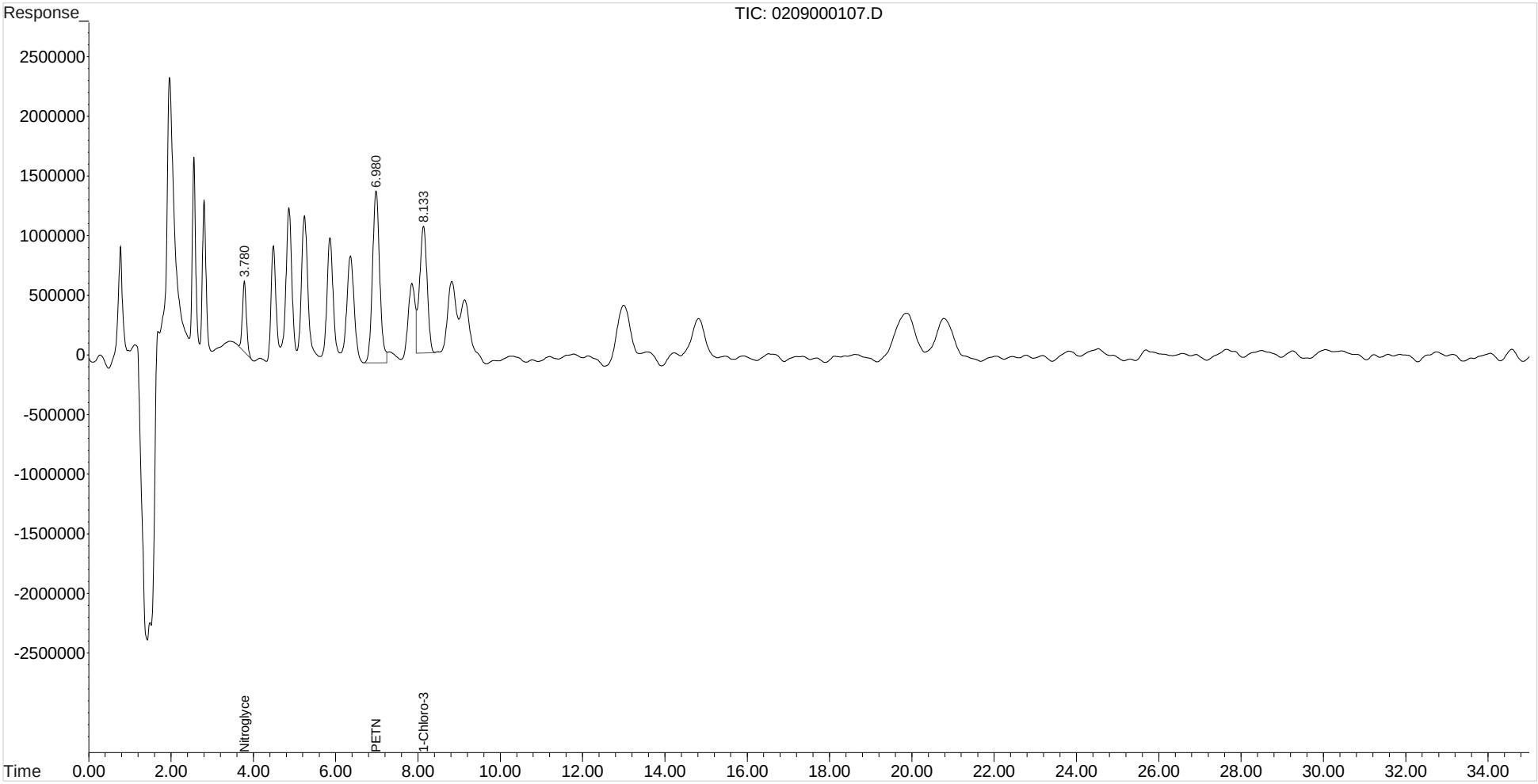
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:29:46 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(b) (6)

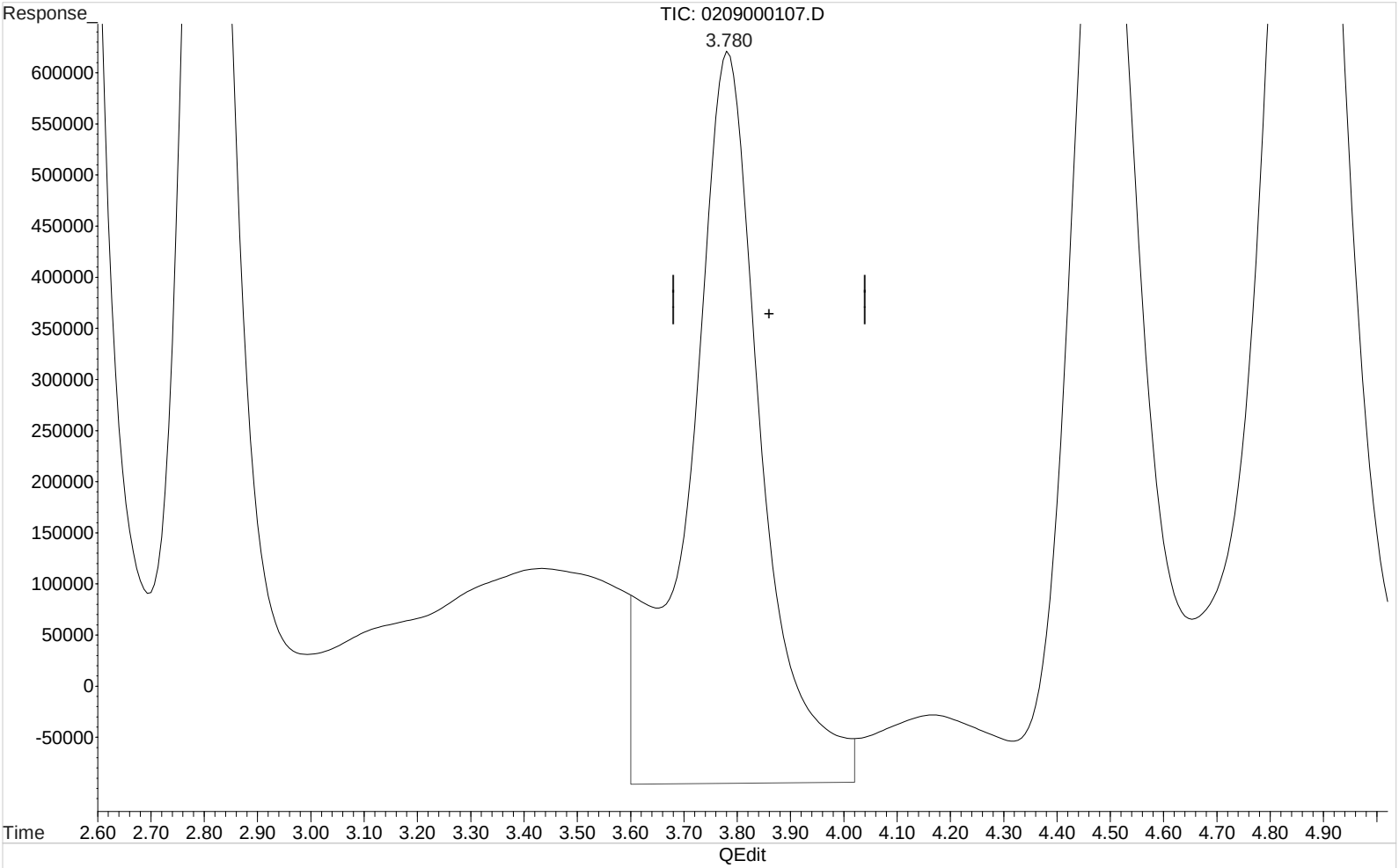
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:42 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.780min 317.059 ug/L

response 6761779

Manual Integration:

Before

02/10/17

(+) = Expected Retention Time

020917_Short_8330B@210.M Fri Feb 10 10:28:45 2017 Page: 1

(b) (6)

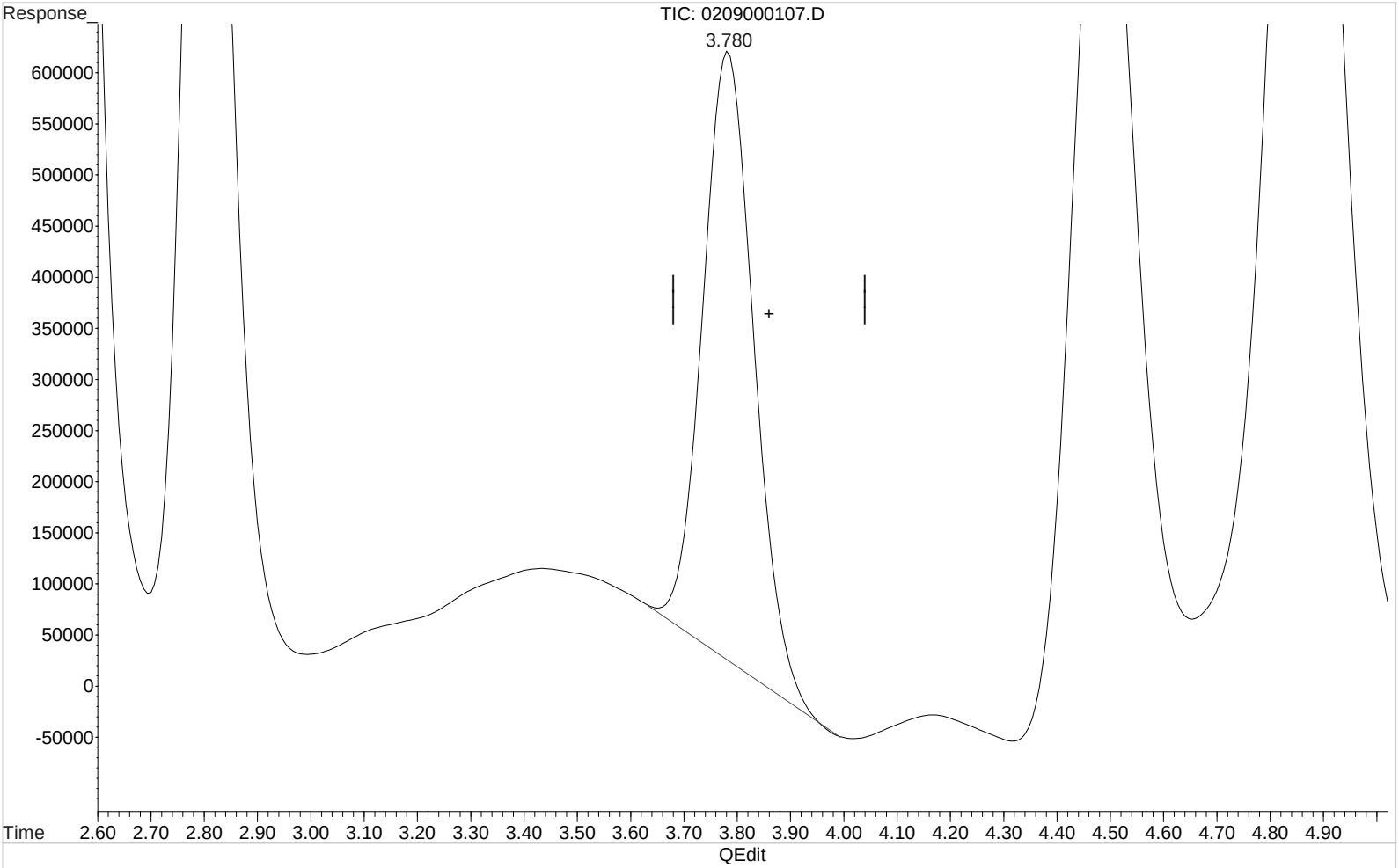
2/13/17

2/17/17

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:42 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.780min 186.571 ug/L m

response 3978902

Manual Integration:

After

BLC

02/10/17

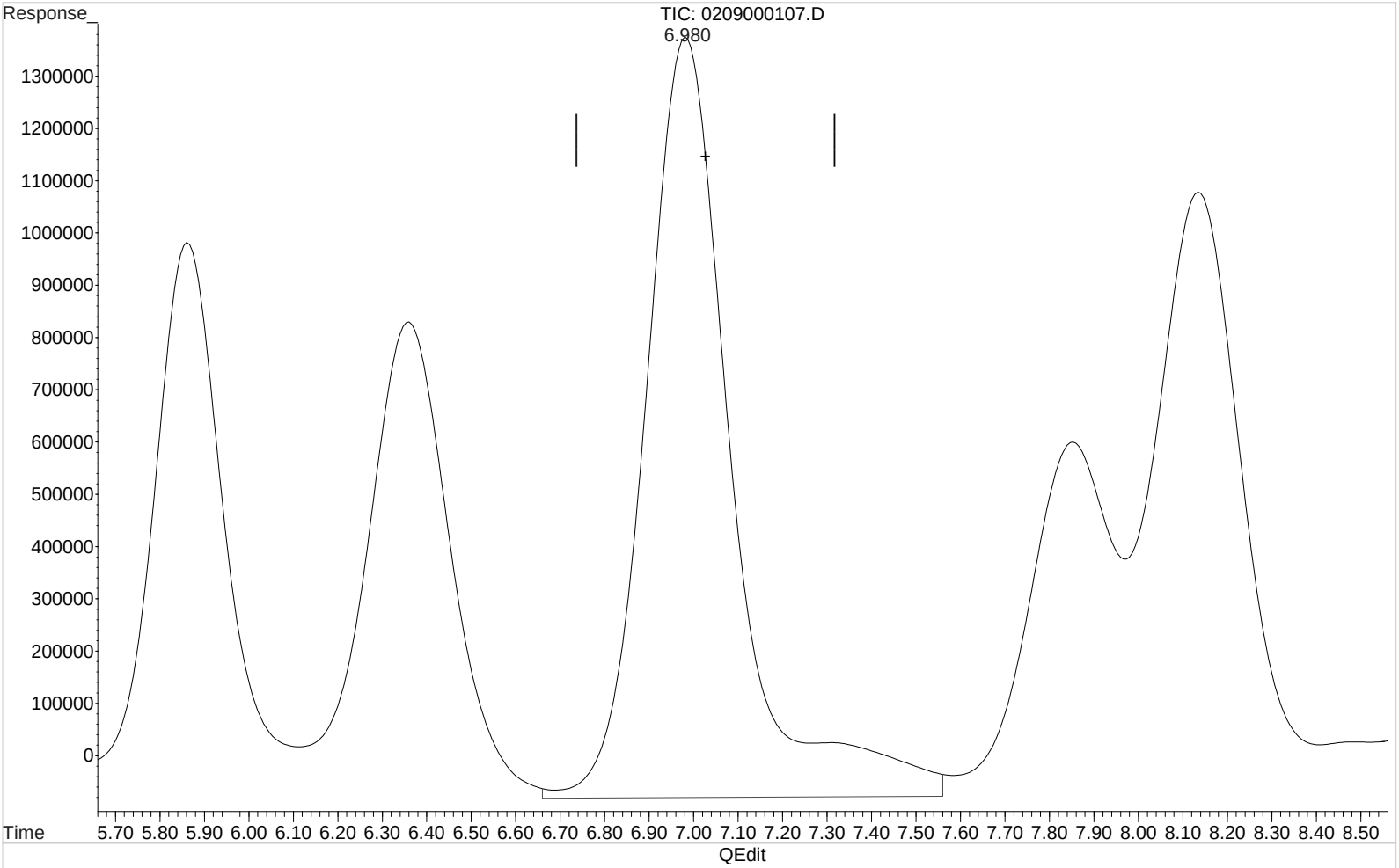
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:42 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.980min 240.910 ug/L

response 19621034

Manual Integration:

Before

02/10/17

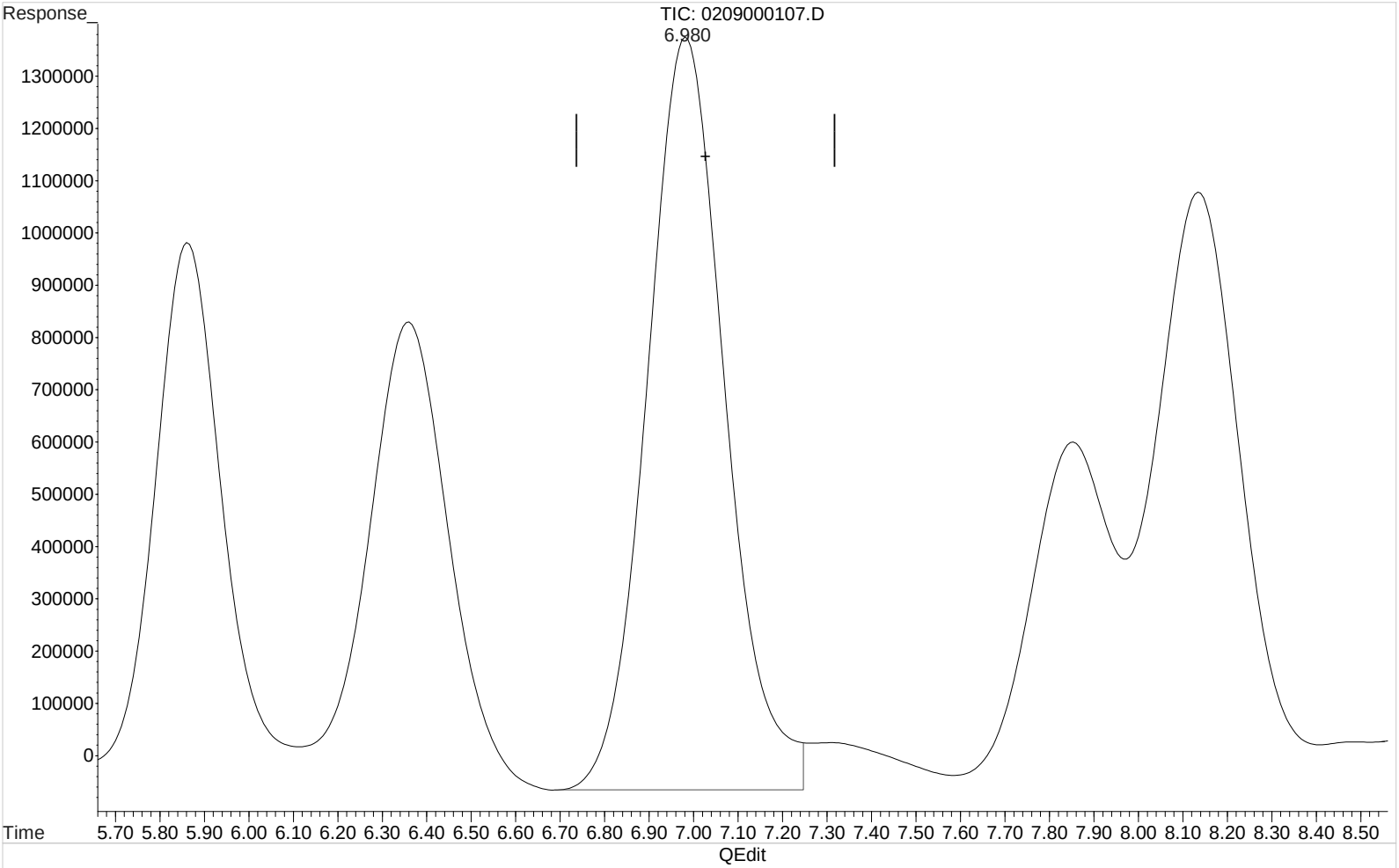
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:42 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.980min 215.684 ug/L m

response 17566508

Manual Integration:

After

BLC

02/10/17

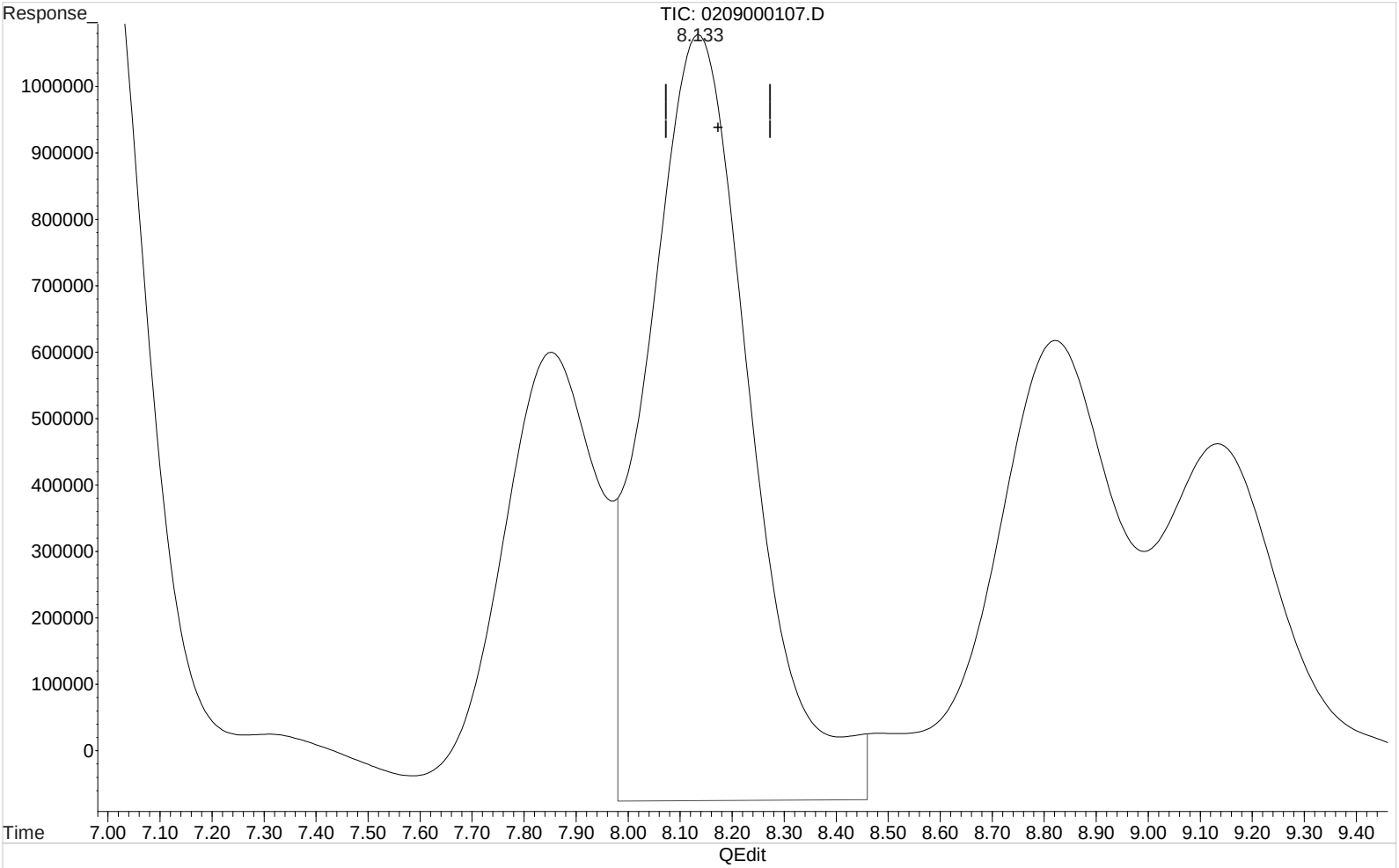
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:42 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.133min 225.281 ug/L

response 15778076

Manual Integration:

Before

02/10/17

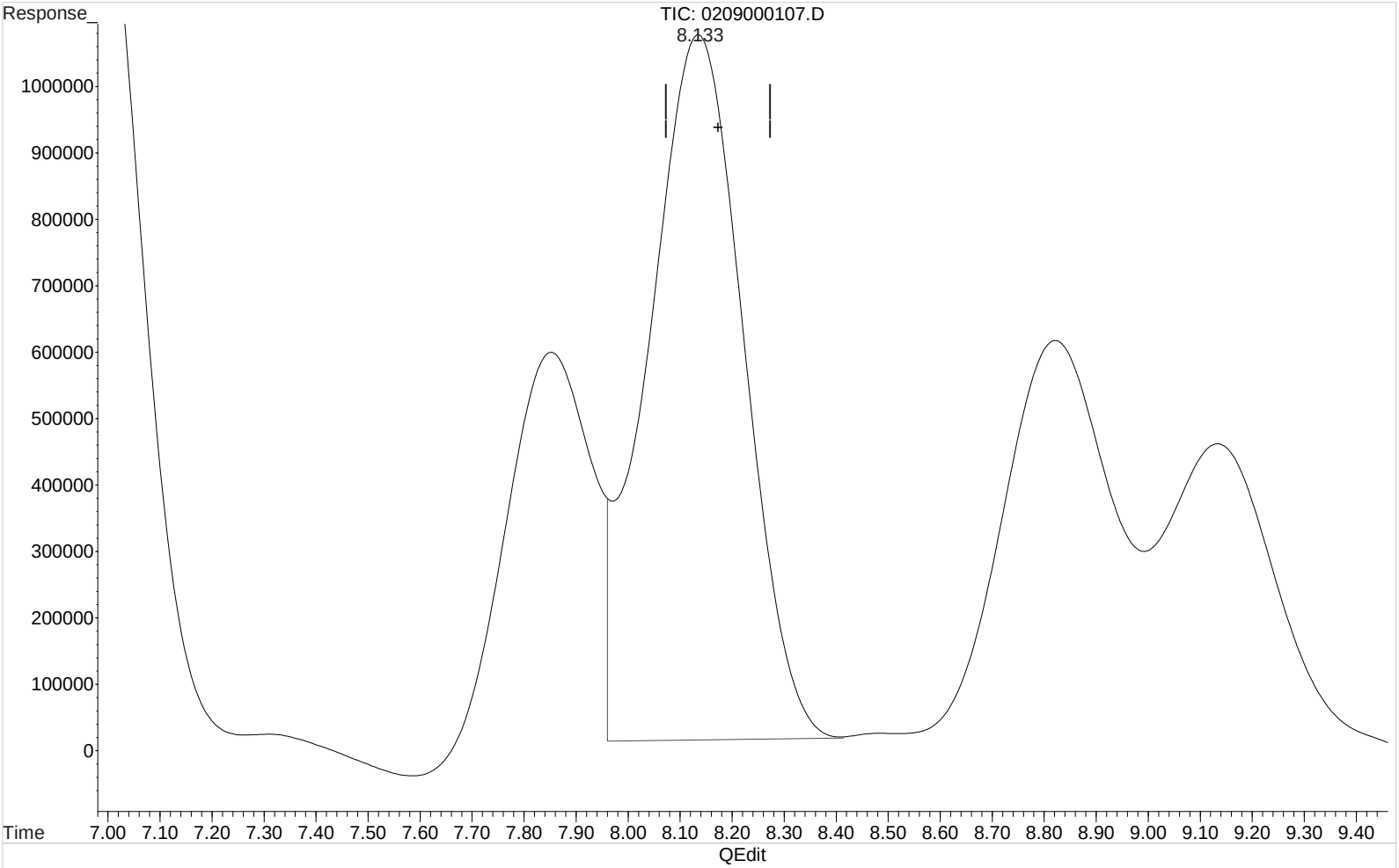
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:42 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.133min 193.631 ug/L m

response 13561422

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000108.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:14 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:27:33 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	8.153	35971989	516.422 ug/L
Target Compounds				
1) T	Nitroglycerin	3.800	11272556	534.680 ug/L m
2) T	PETN	6.993	42145946	521.117 ug/L m

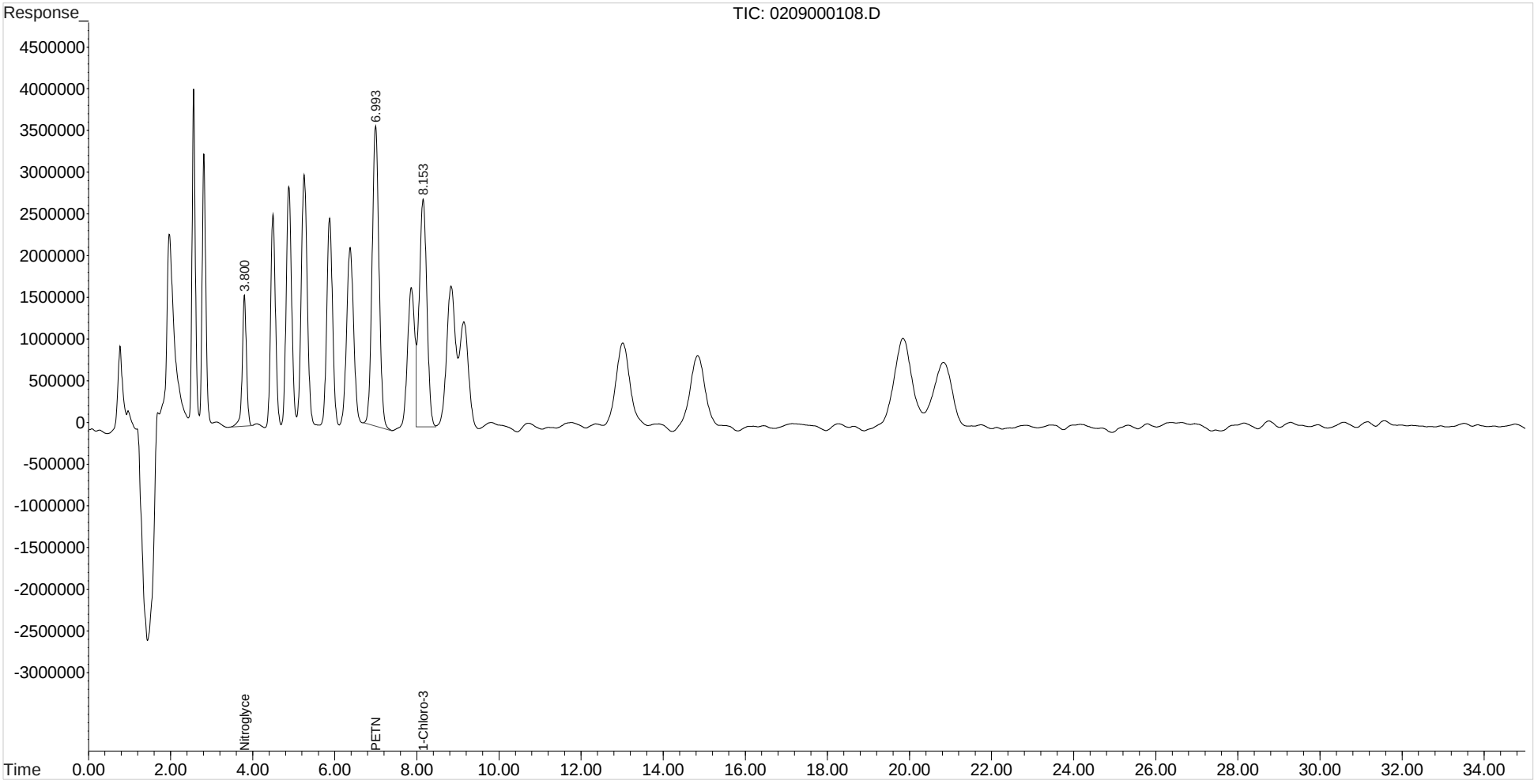
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000108.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:14 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:27:33 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

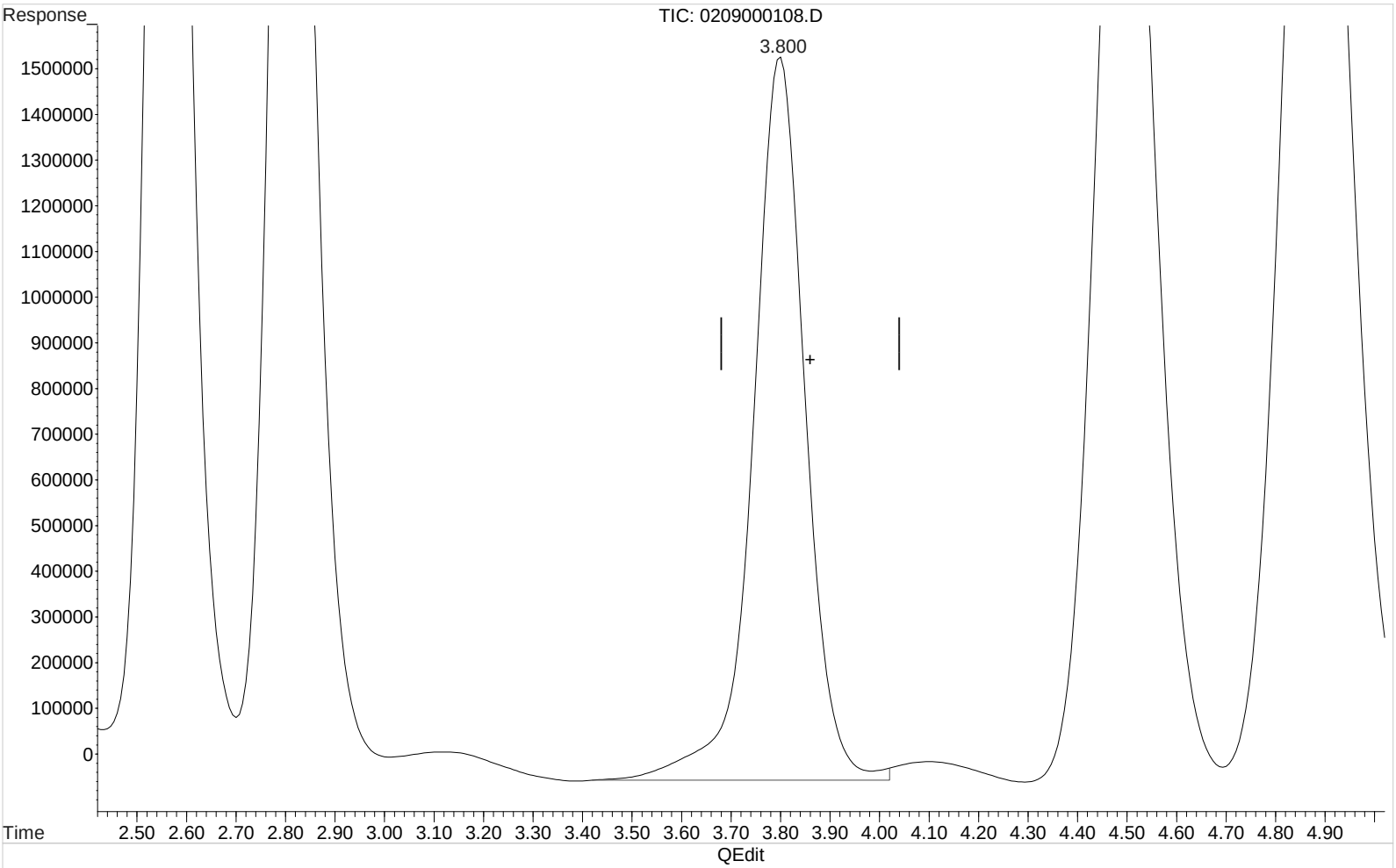


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000108.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:43 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:27:33 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.800min 552.022 ug/L

response 11638168

Manual Integration:

Before

02/10/17

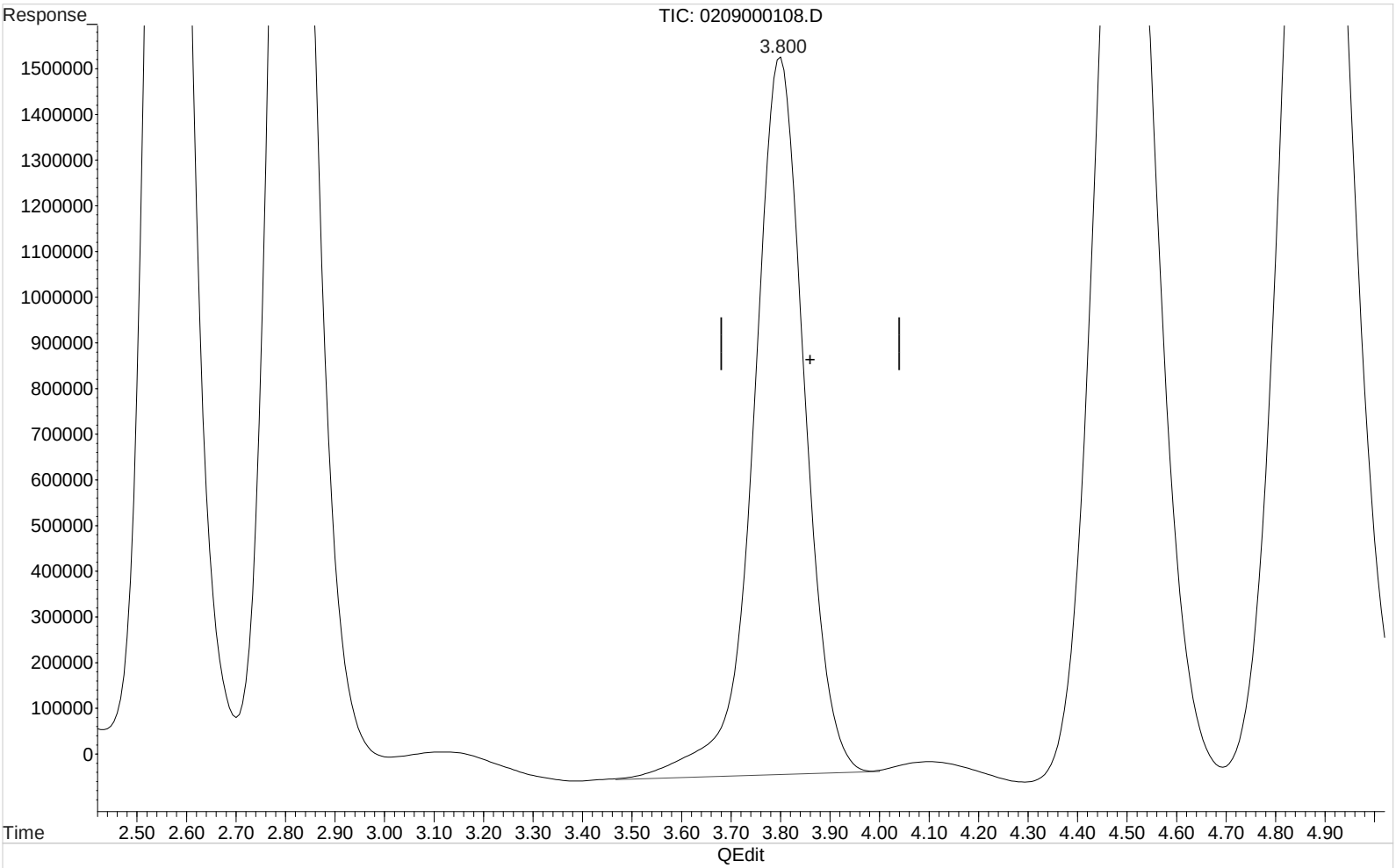
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000108.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:43 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:27:33 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.800min 534.680 ug/L m

response 11272556

Manual Integration:

After

BLC

02/10/17

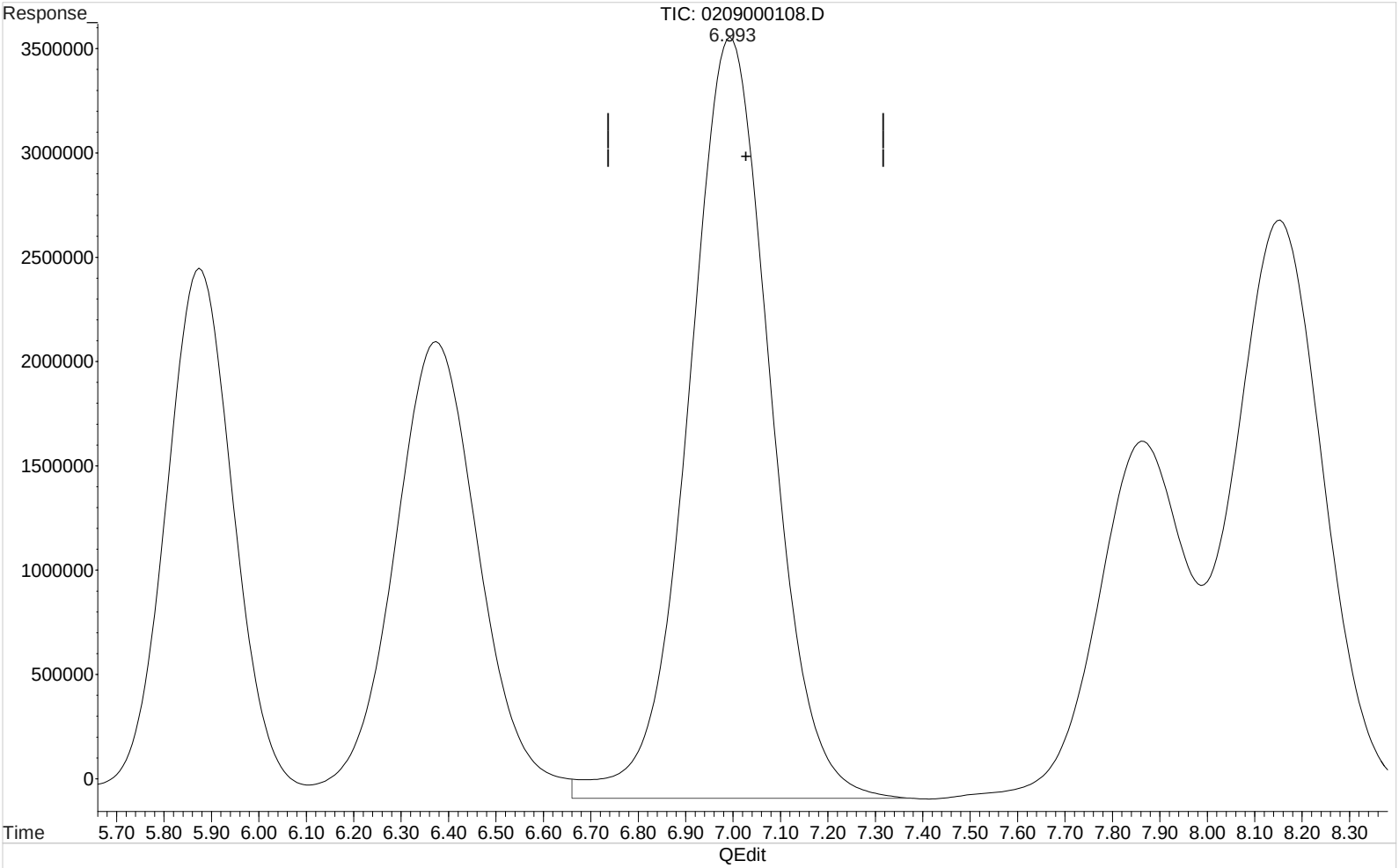
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000108.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:43 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:27:33 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.993min 544.802 ug/L

response 44061458

Manual Integration:

Before

02/10/17

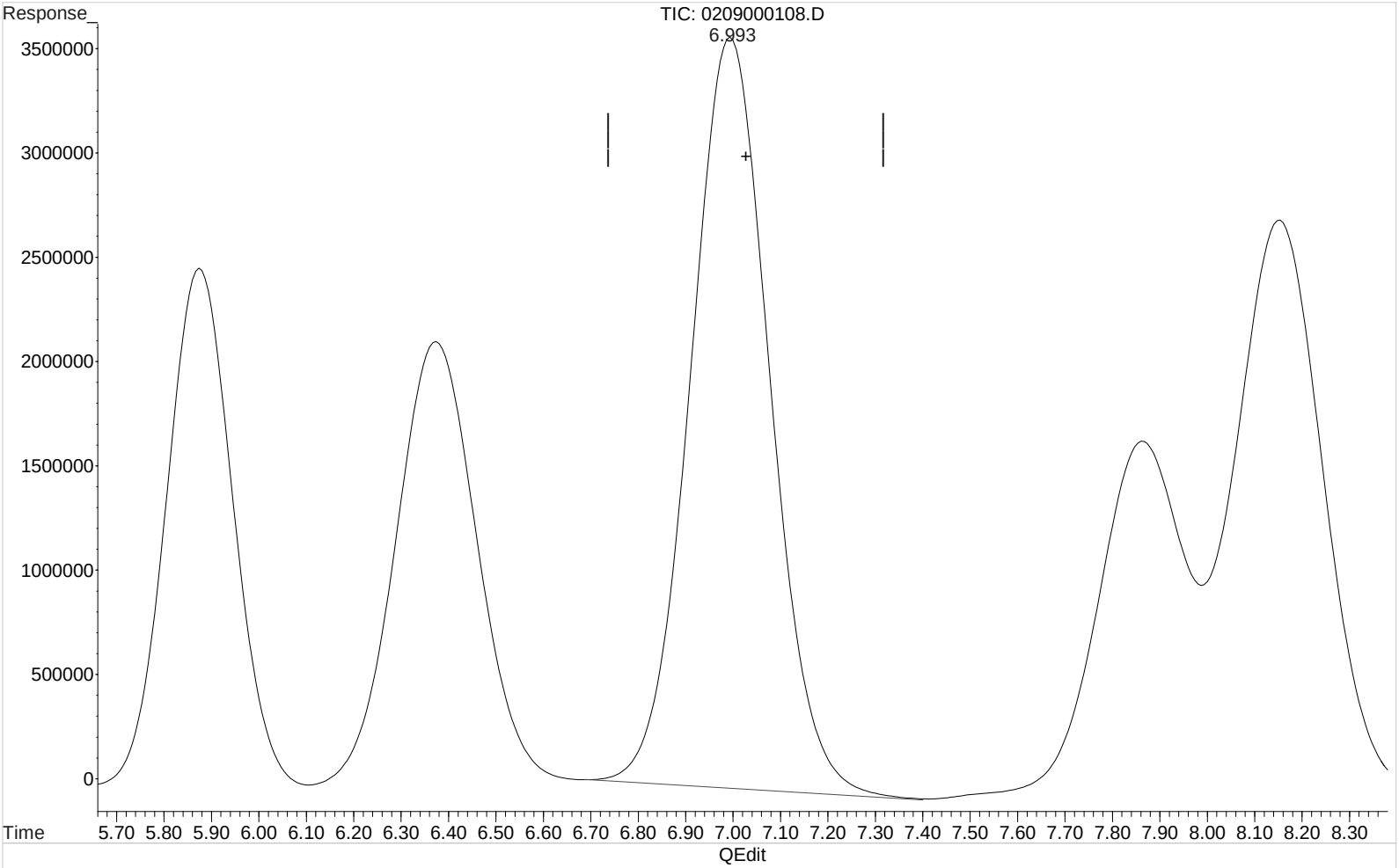
(+) = Expected Retention Time

(b)
(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-210\0209000108.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:43 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:27:33 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.993min 521.117 ug/L m

response 42145946

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:23 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:26:45 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
3) S	1-Chloro-3-Nitrobenzene	8.140	69921036	1004.758	ug/L	
	Target Compounds					
1) T	Nitroglycerin	3.793	21356542	1016.282	ug/L	m
2) T	PETN	6.987	82490148	1025.070	ug/L	m

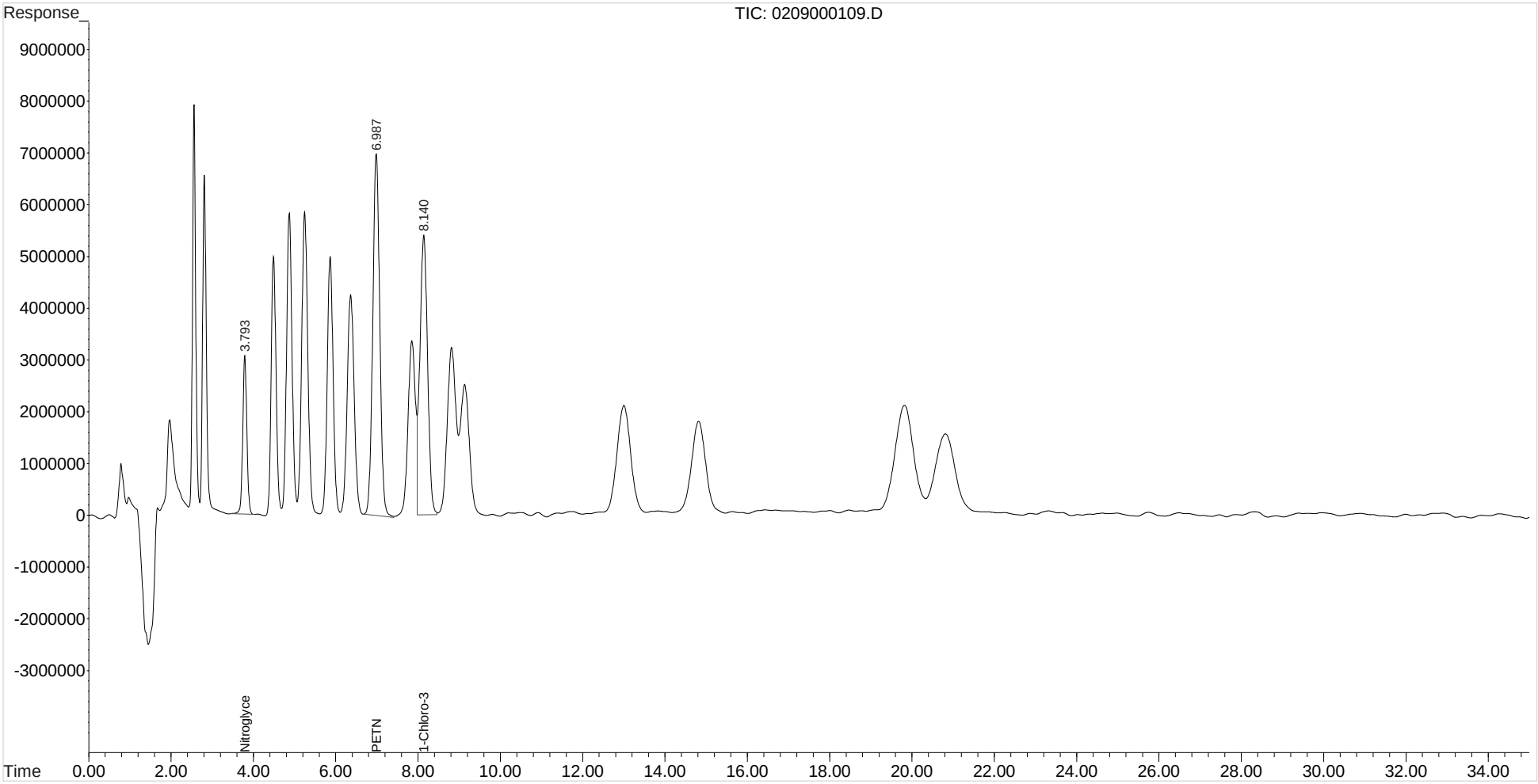
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:23 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:26:45 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

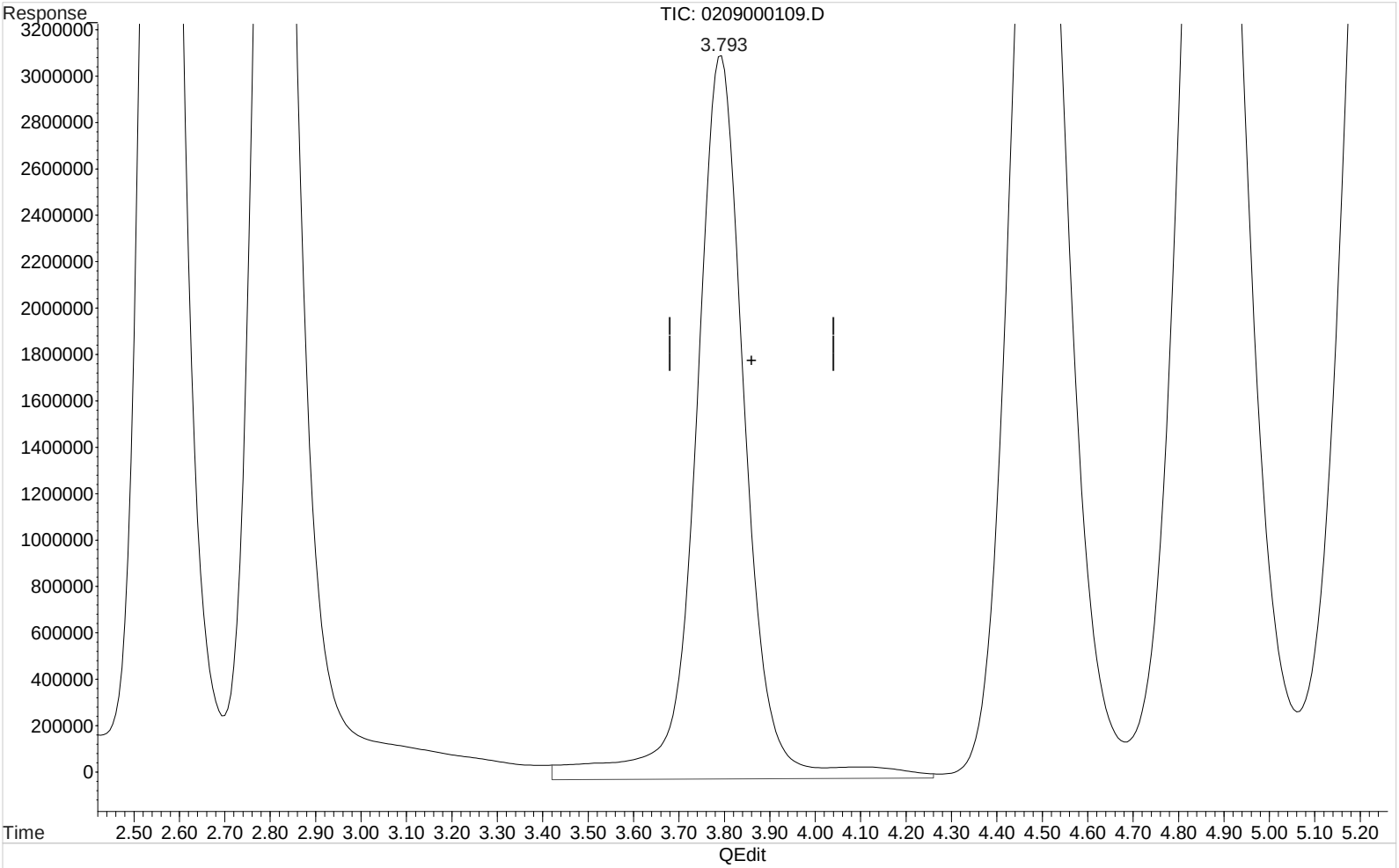


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:01 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:26:45 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.793min 1137.163 ug/L

response 23896782

Manual Integration:

Before

02/10/17

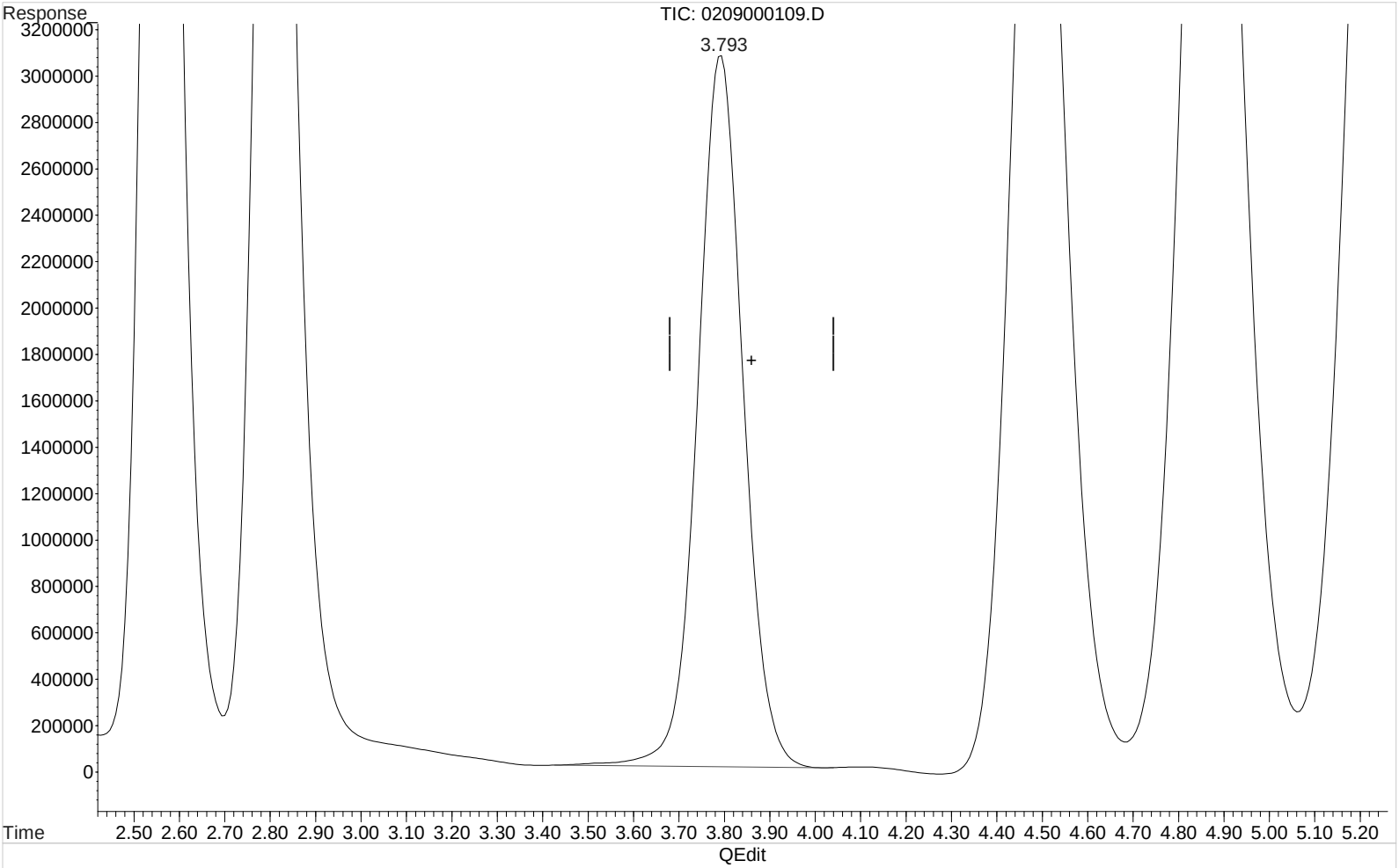
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:01 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:26:45 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.793min 1016.282 ug/L m

response 21356542

Manual Integration:

After

BLC

02/10/17

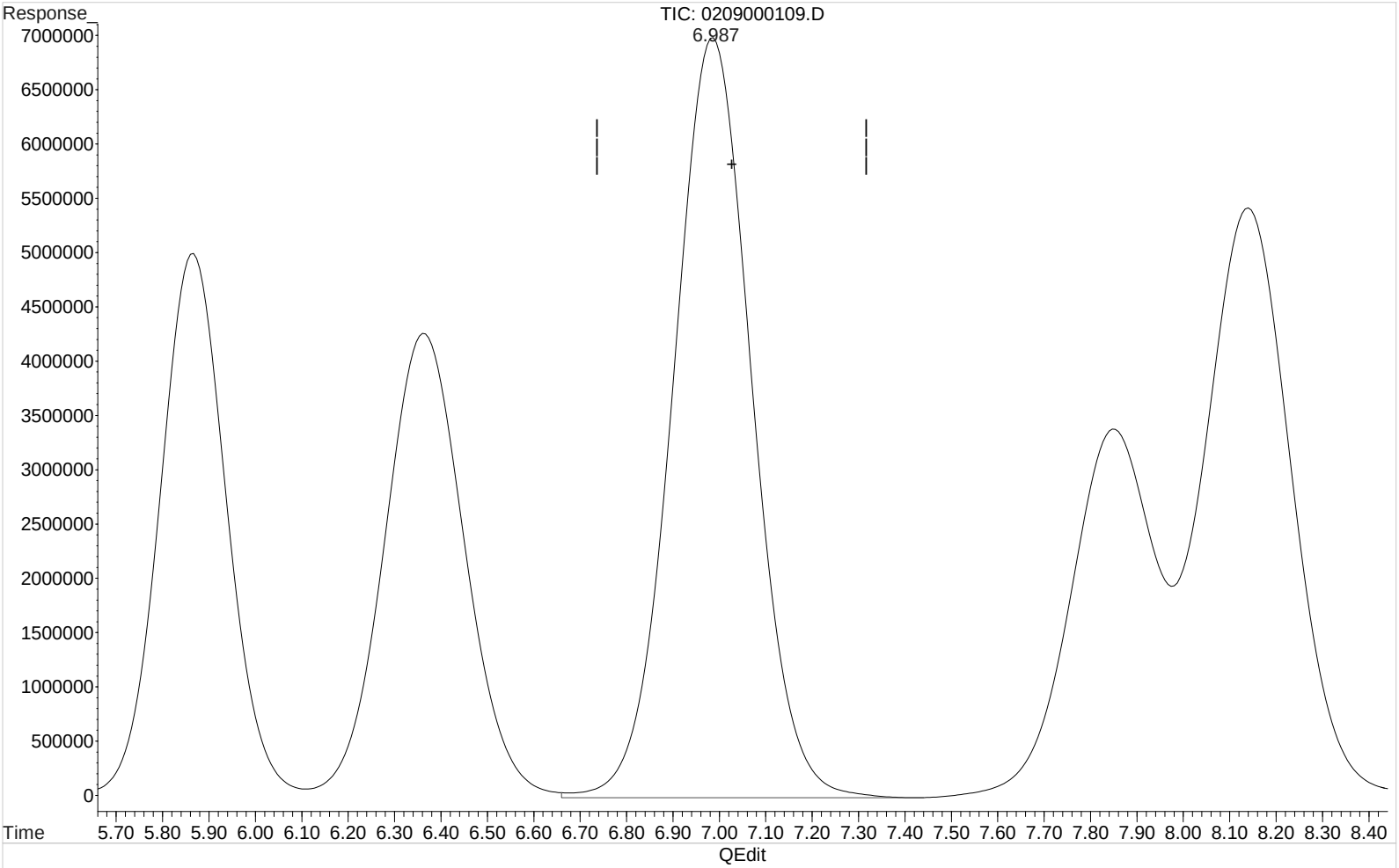
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:01 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:26:45 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.987min 1031.524 ug/L

response 83009500

Manual Integration:

Before

02/10/17

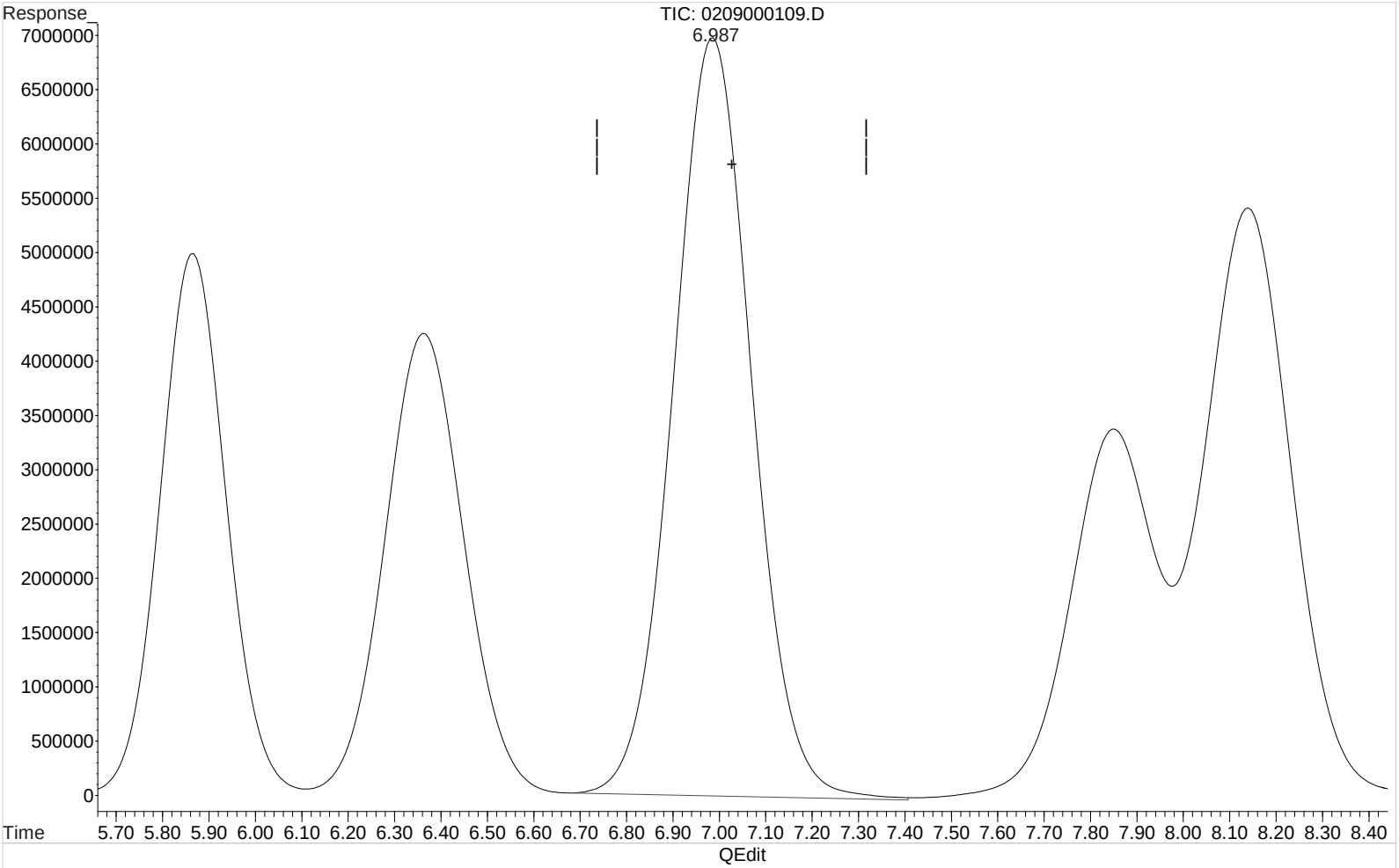
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:01 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:26:45 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.987min 1025.070 ug/L m

response 82490148

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:26:26 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	8.140	139414192	2004.492	ug/L	m
Target Compounds						
1) T	Nitroglycerin	3.793	42551590	2033.310	ug/L	m
2) T	PETN	6.987	162597336	2027.466	ug/L	m

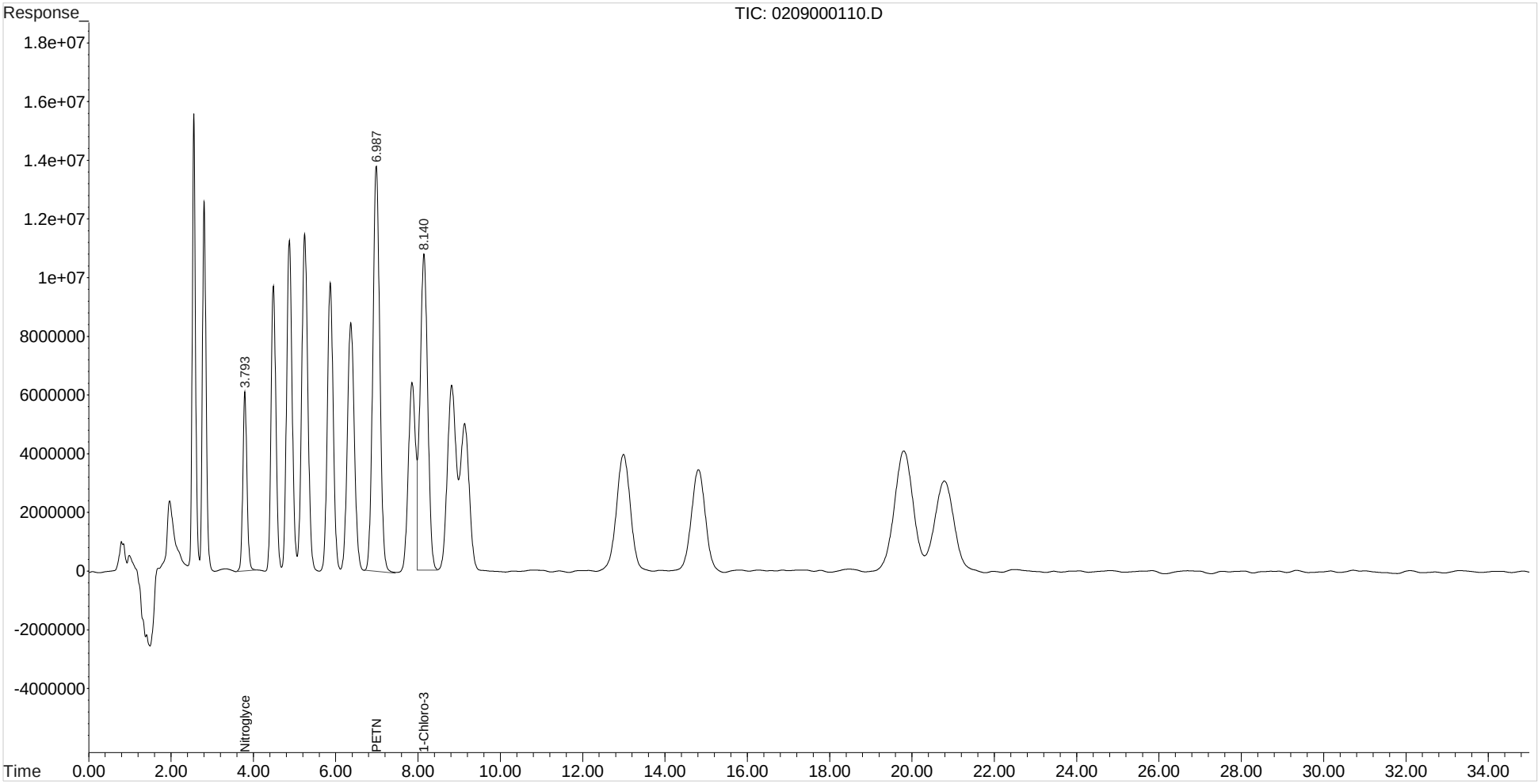
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:26:26 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

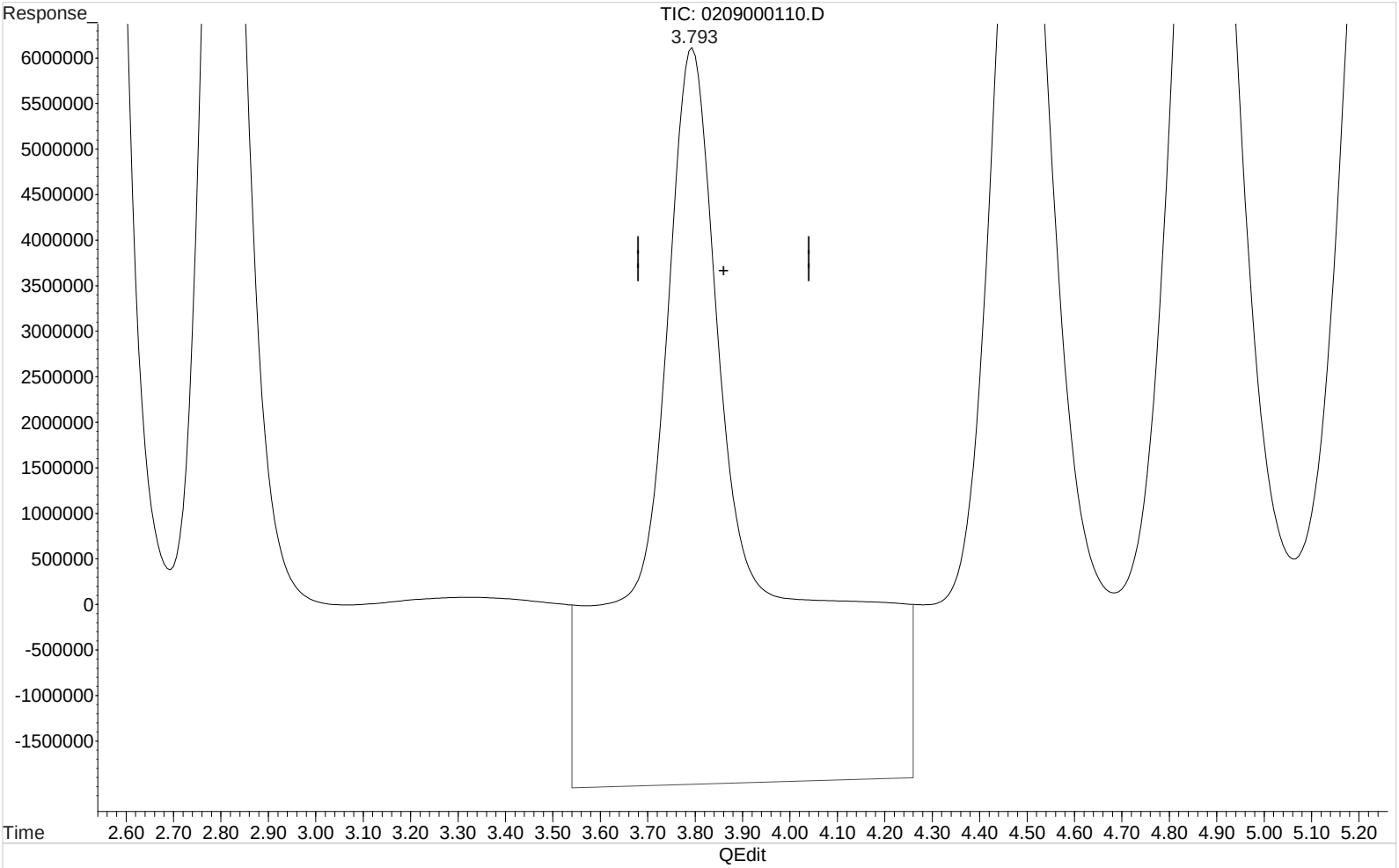


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:58 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.793min 6103.062 ug/L

response 127720293

Manual Integration:

Before

02/10/17

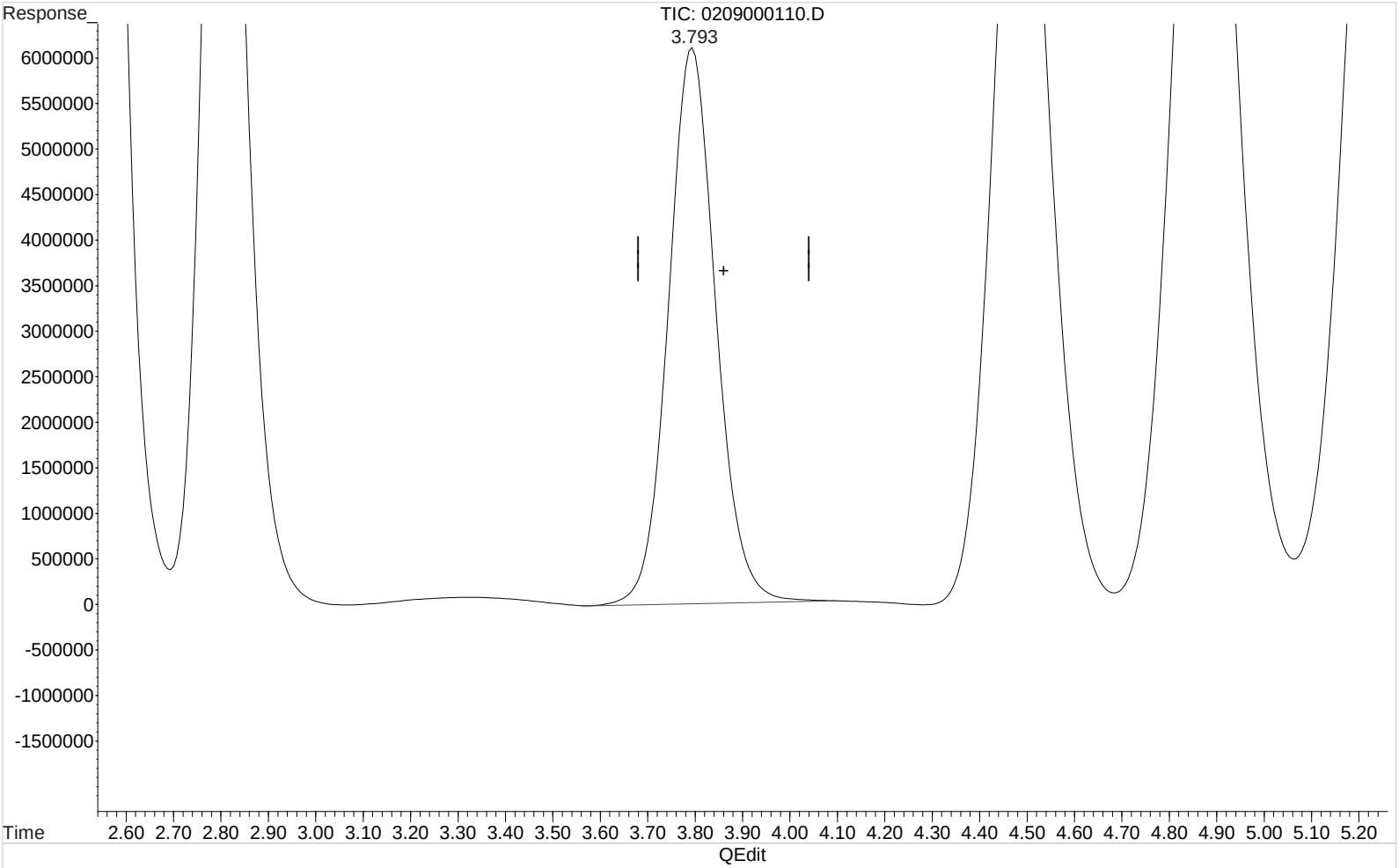
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:58 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.793min 2033.310 ug/L m

response 42551590

Manual Integration:

After

BLC

02/10/17

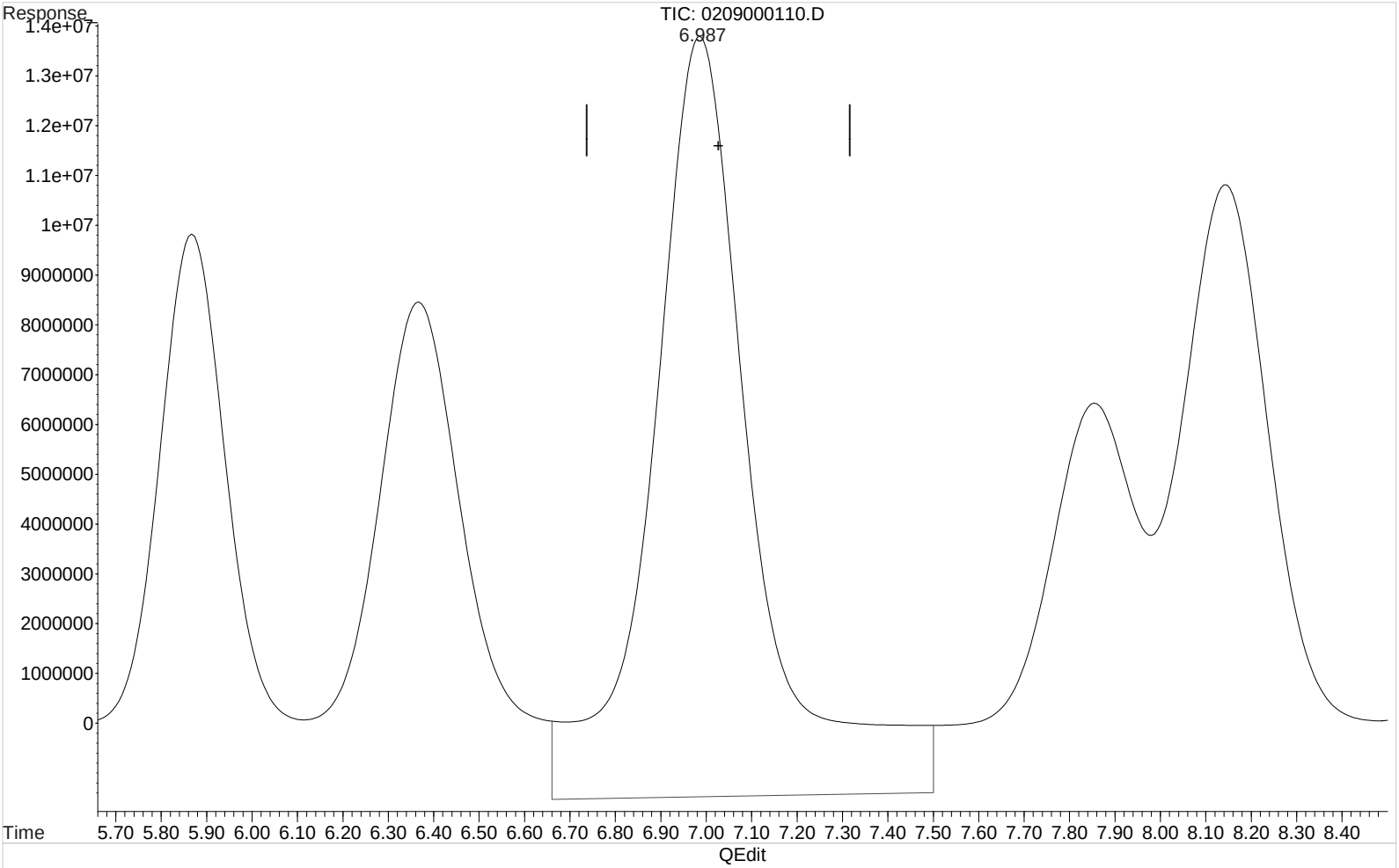
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:58 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.987min 2934.380 ug/L

response 235329399

Manual Integration:

Before

02/10/17

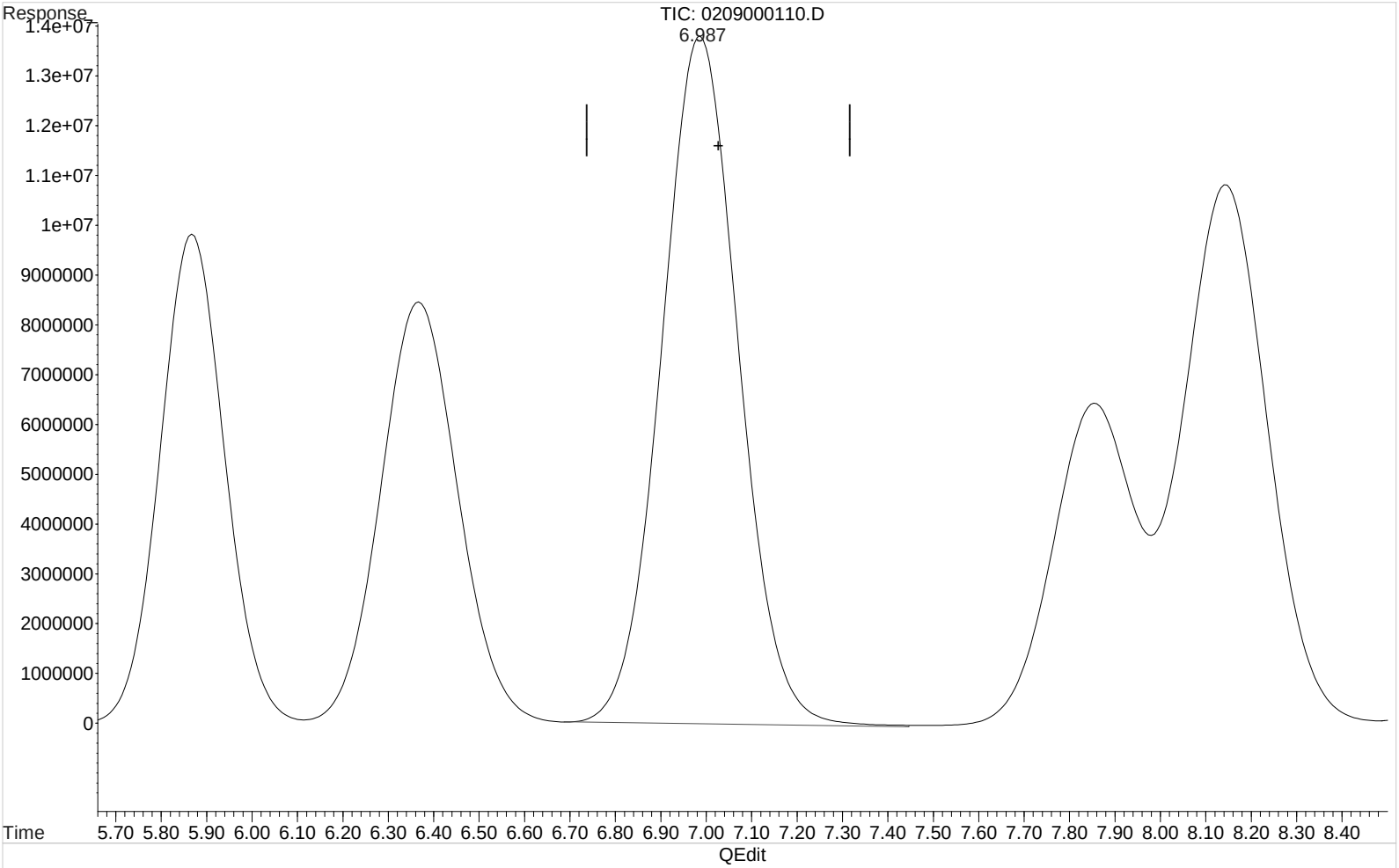
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:58 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.987min 2027.466 ug/L m

response 162597336

Manual Integration:

After

BLC

02/10/17

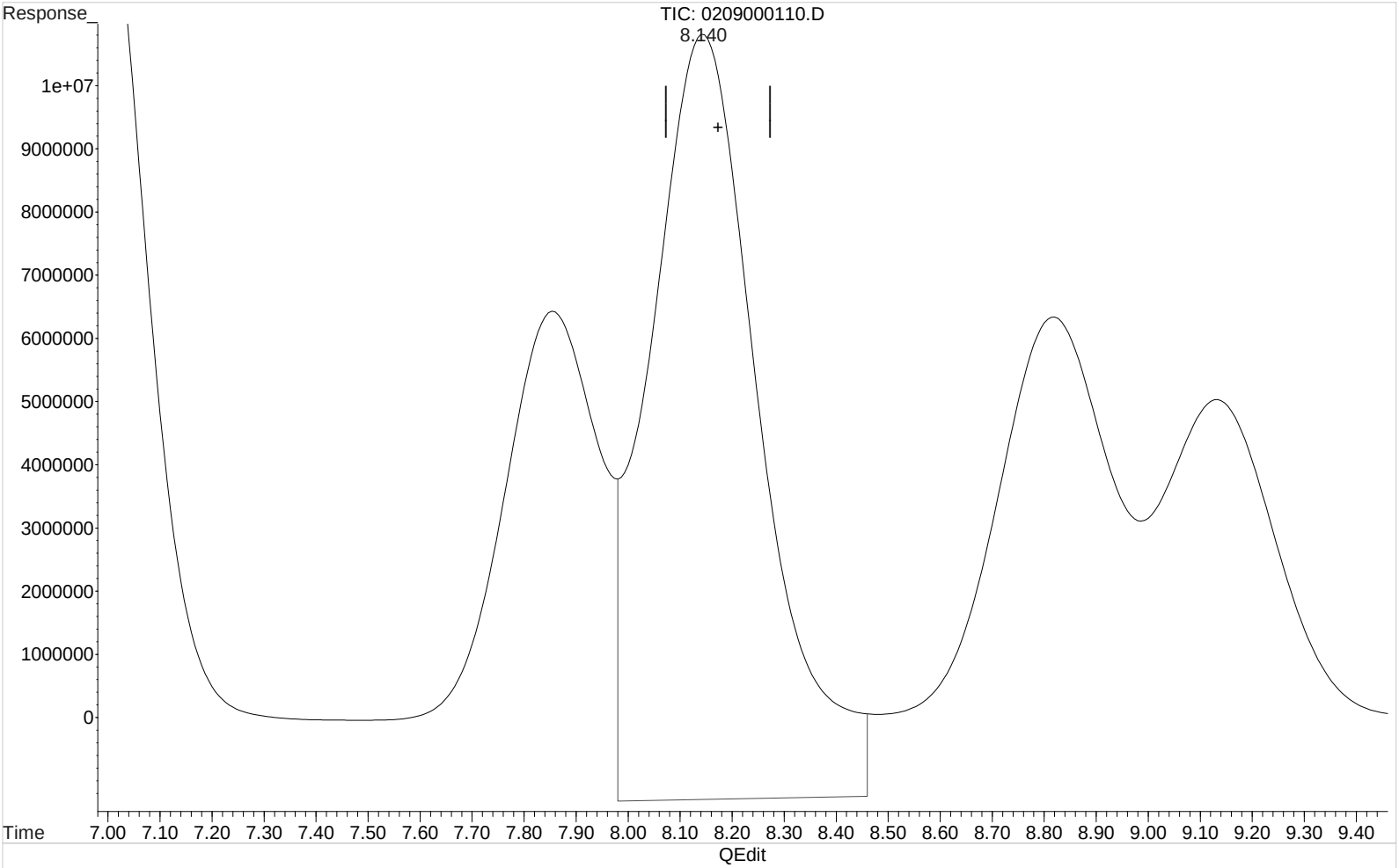
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:58 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.140min 2549.905 ug/L

response 177348124

Manual Integration:

Before

02/10/17

(+) = Expected Retention Time

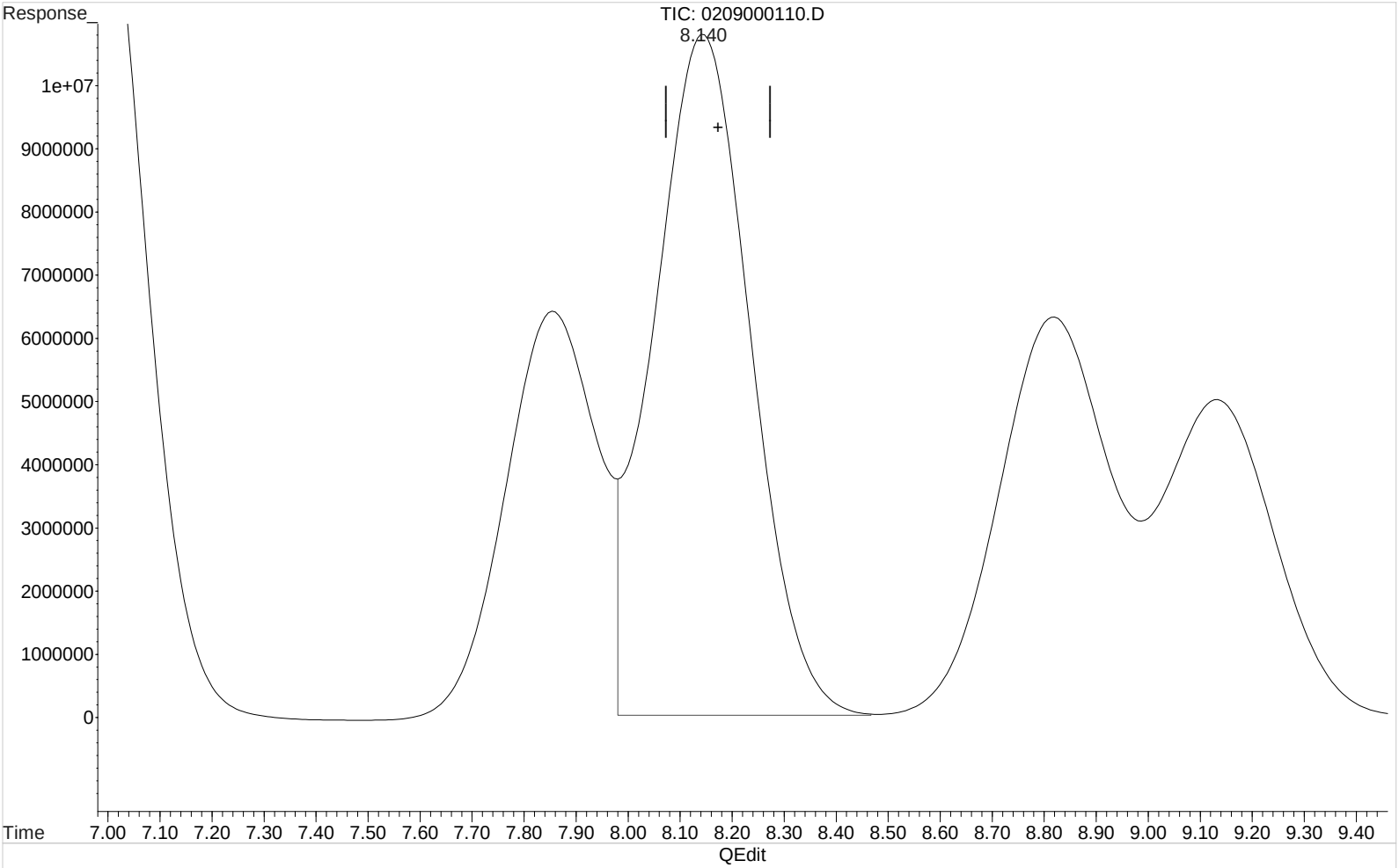
020917_Short_8330B@210.M Fri Feb 10 10:26:22 2017 Page: 1

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:58 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.140min 2004.492 ug/L m

response 139414192

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000111.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:40 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:08 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	8.147	351298284	5076.822	ug/L	
Target Compounds						
1) T	Nitroglycerin	3.787	104644653	5000.603	ug/L	m
2) T	PETN	6.987	405313182	5081.362	ug/L	m

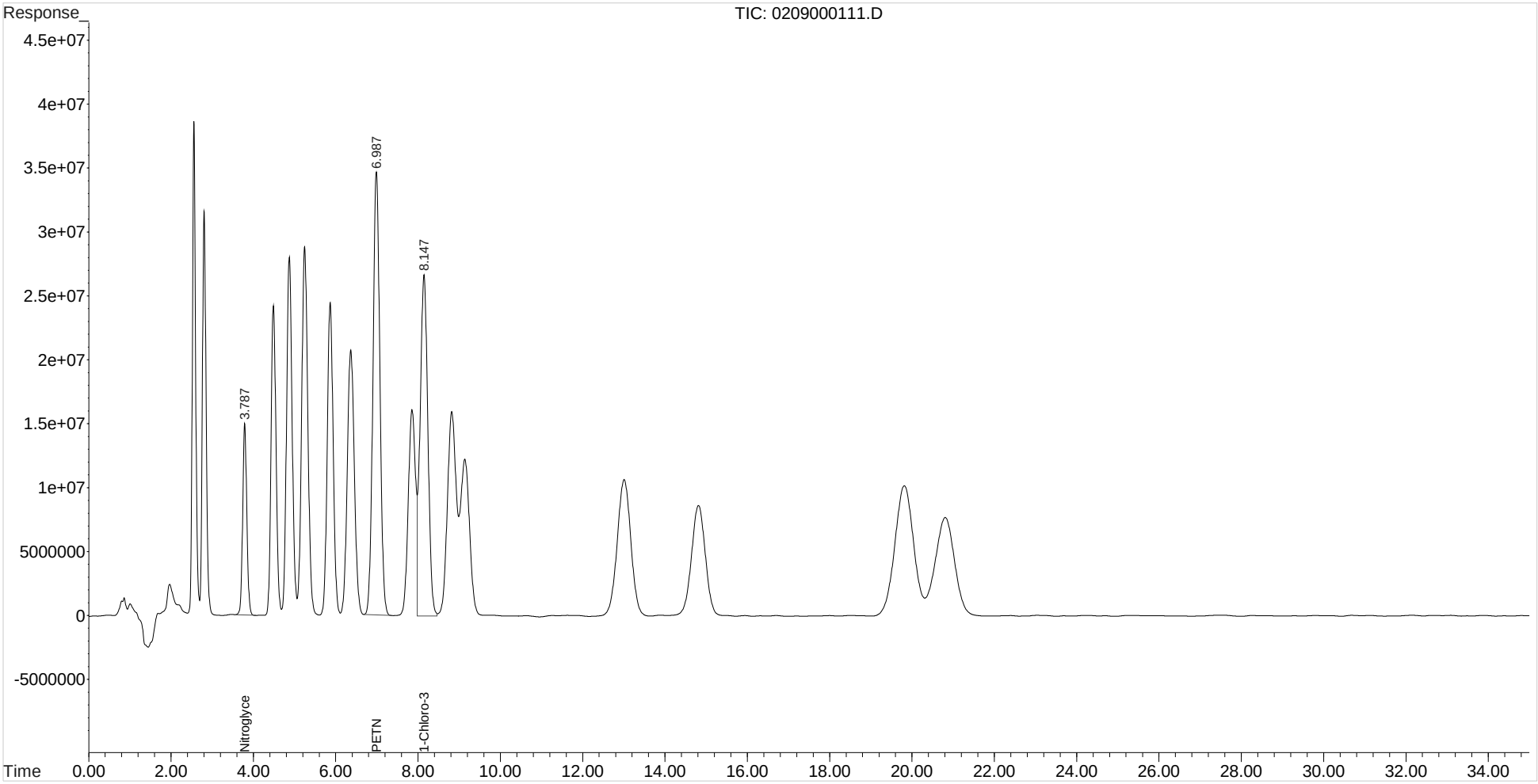
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000111.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:40 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:08 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

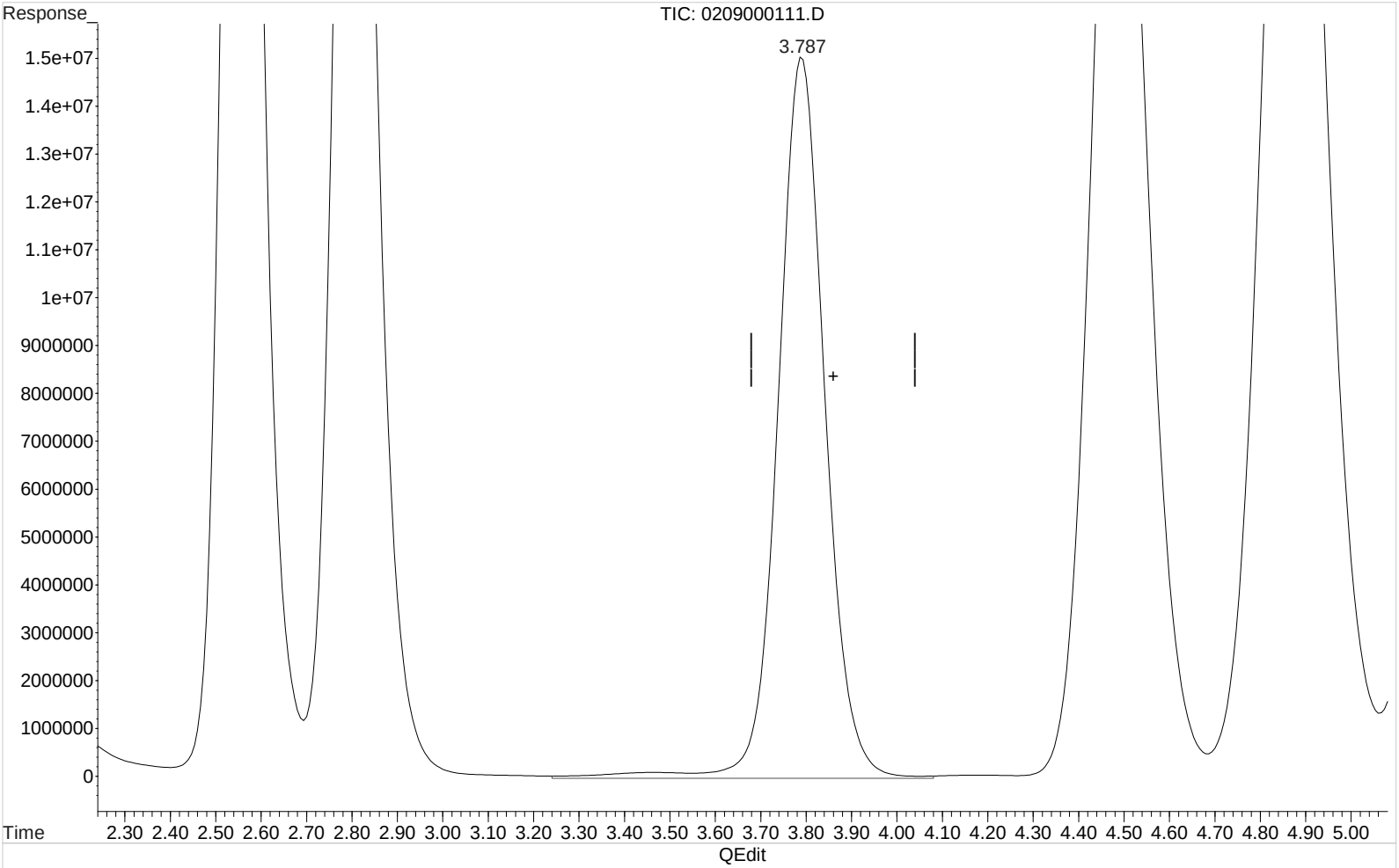


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000111.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:08 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.787min 5213.557 ug/L

response 109101011

Manual Integration:

Before

02/10/17

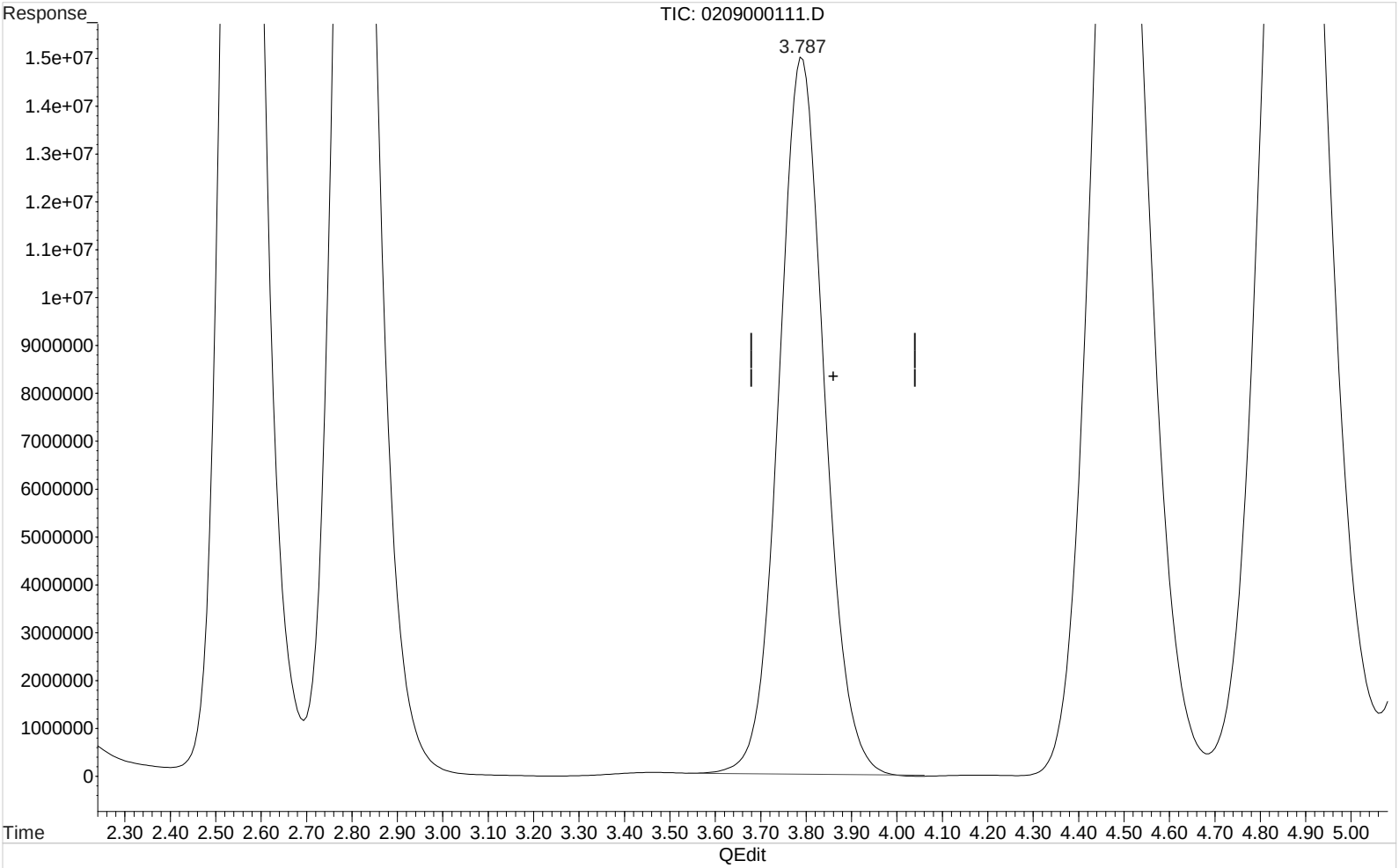
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000111.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:08 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.787min 5000.603 ug/L m

response 104644653

Manual Integration:

After

BLC

02/10/17

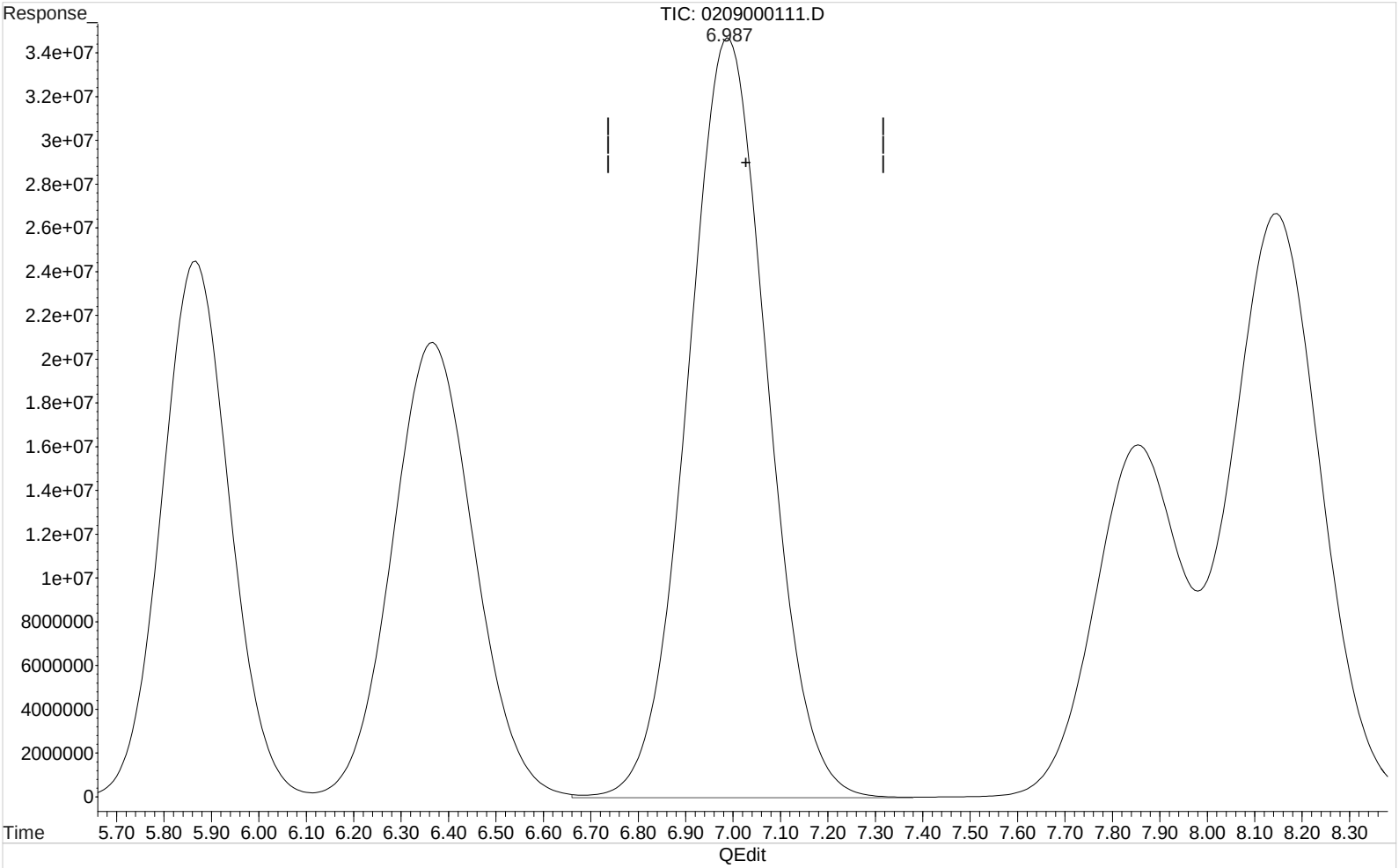
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000111.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:08 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.987min 5129.172 ug/L

response 409126699

Manual Integration:

Before

02/10/17

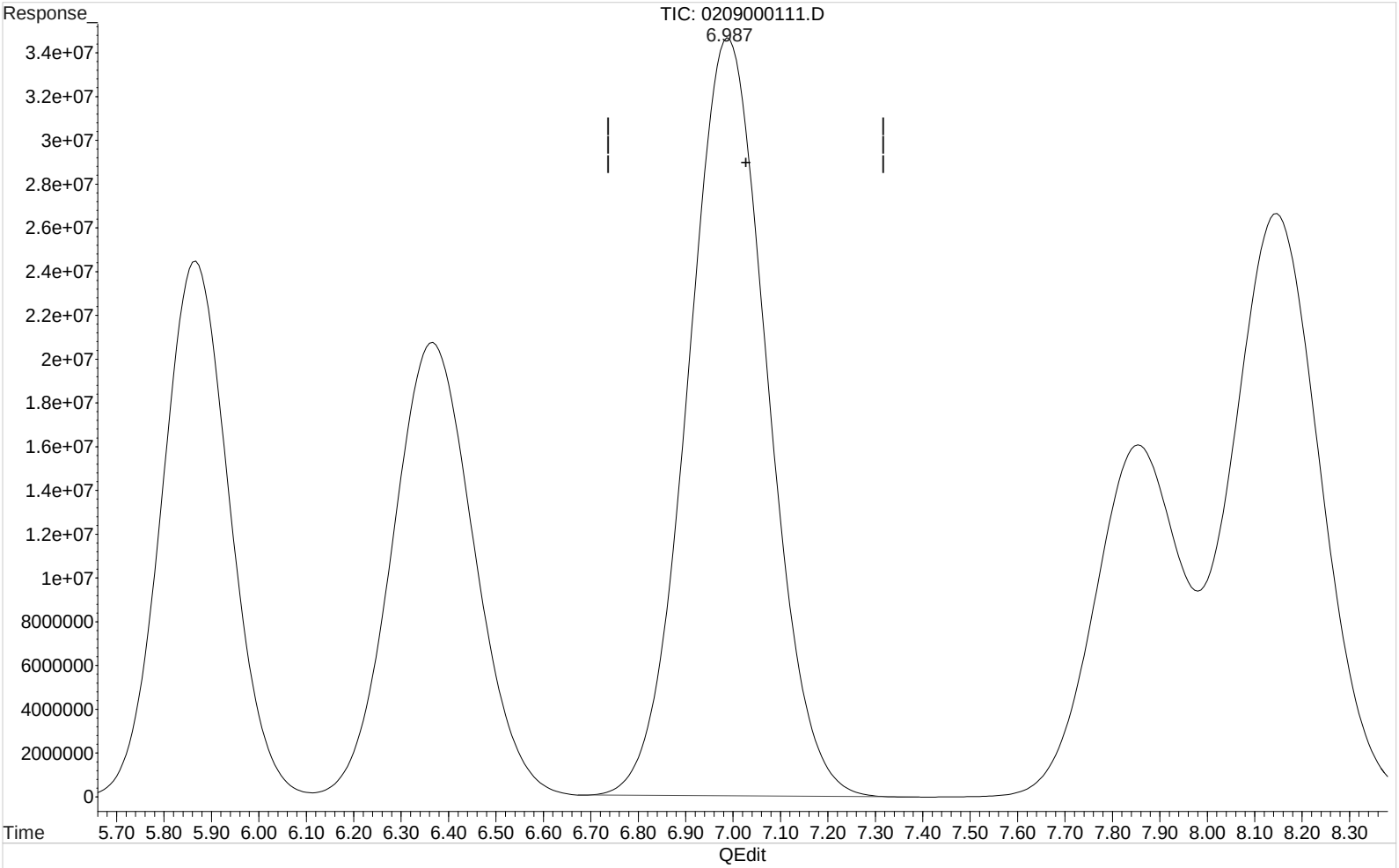
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000111.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:08 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.987min 5081.362 ug/L m

response 405313182

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000112.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:24:52 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:24:06 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	8.147	689768693	9936.722	ug/L	
Target Compounds						
1) T	Nitroglycerin	3.793	210346801	10104.020	ug/L	m
2) T	PETN	6.987	805997758	10211.609	ug/L	m

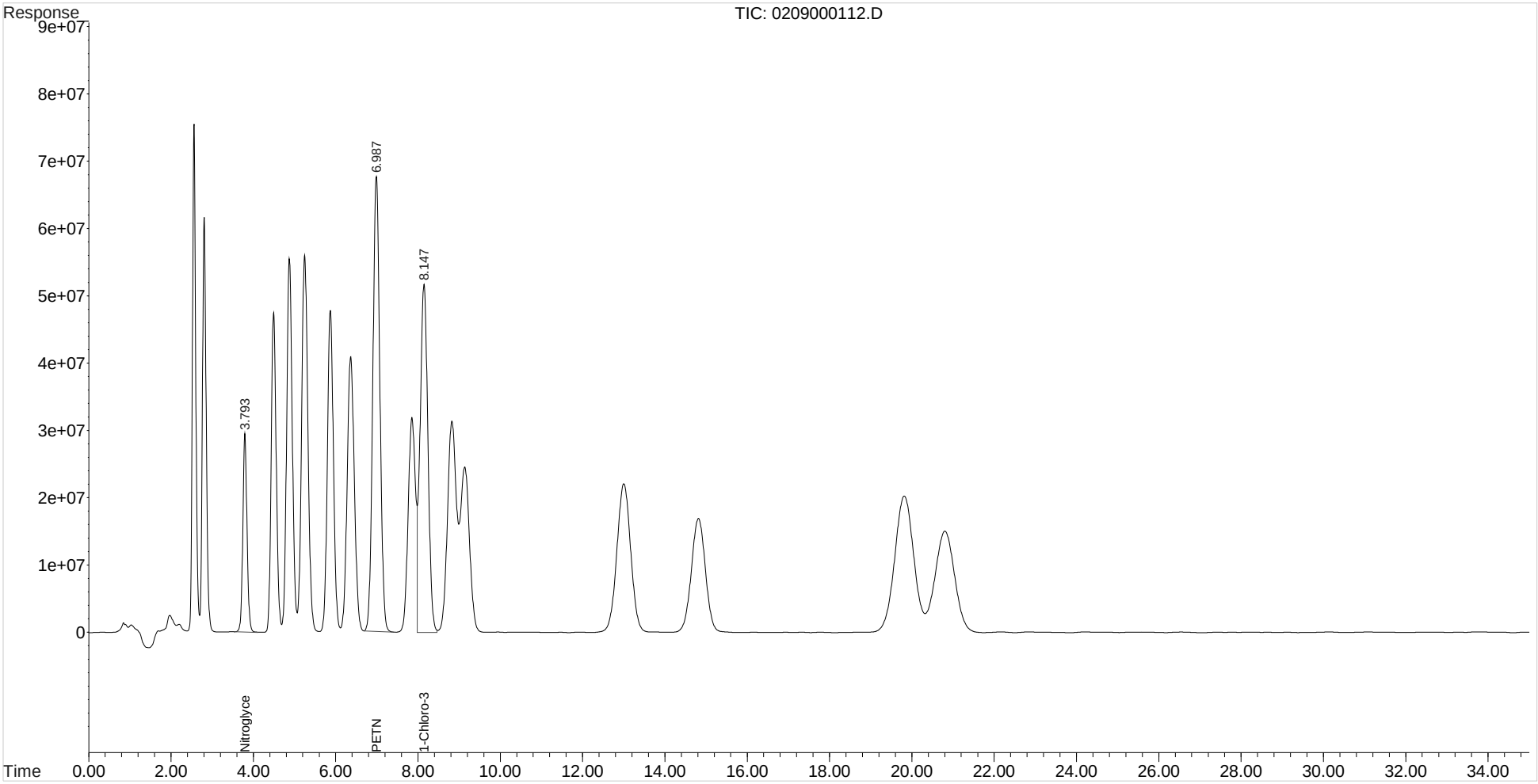
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000112.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:24:52 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:24:06 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(b) (6)

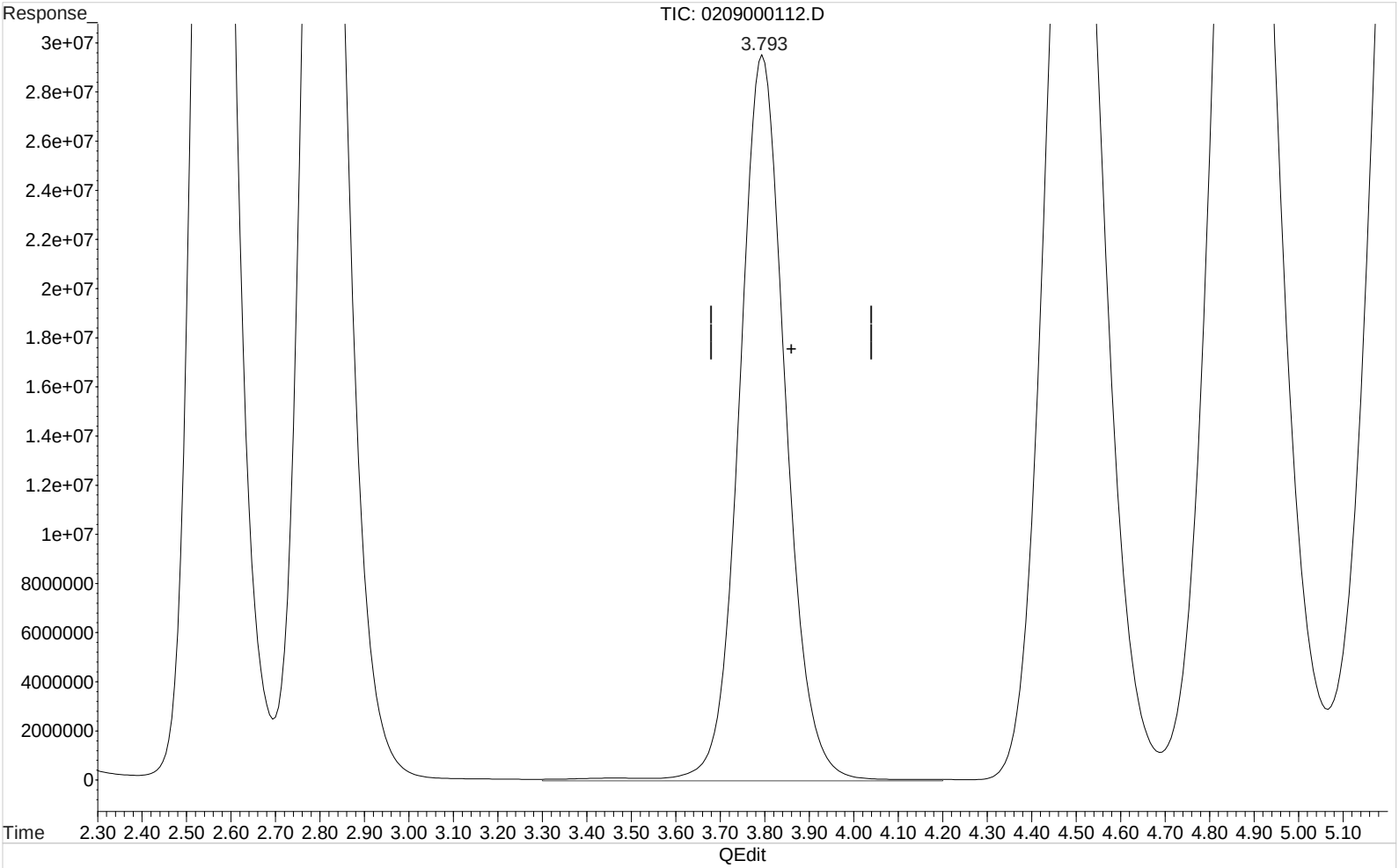
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-210\0209000112.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:24:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:24:06 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.793min 10277.587 ug/L

response 213960148

Manual Integration:

Before

02/10/17

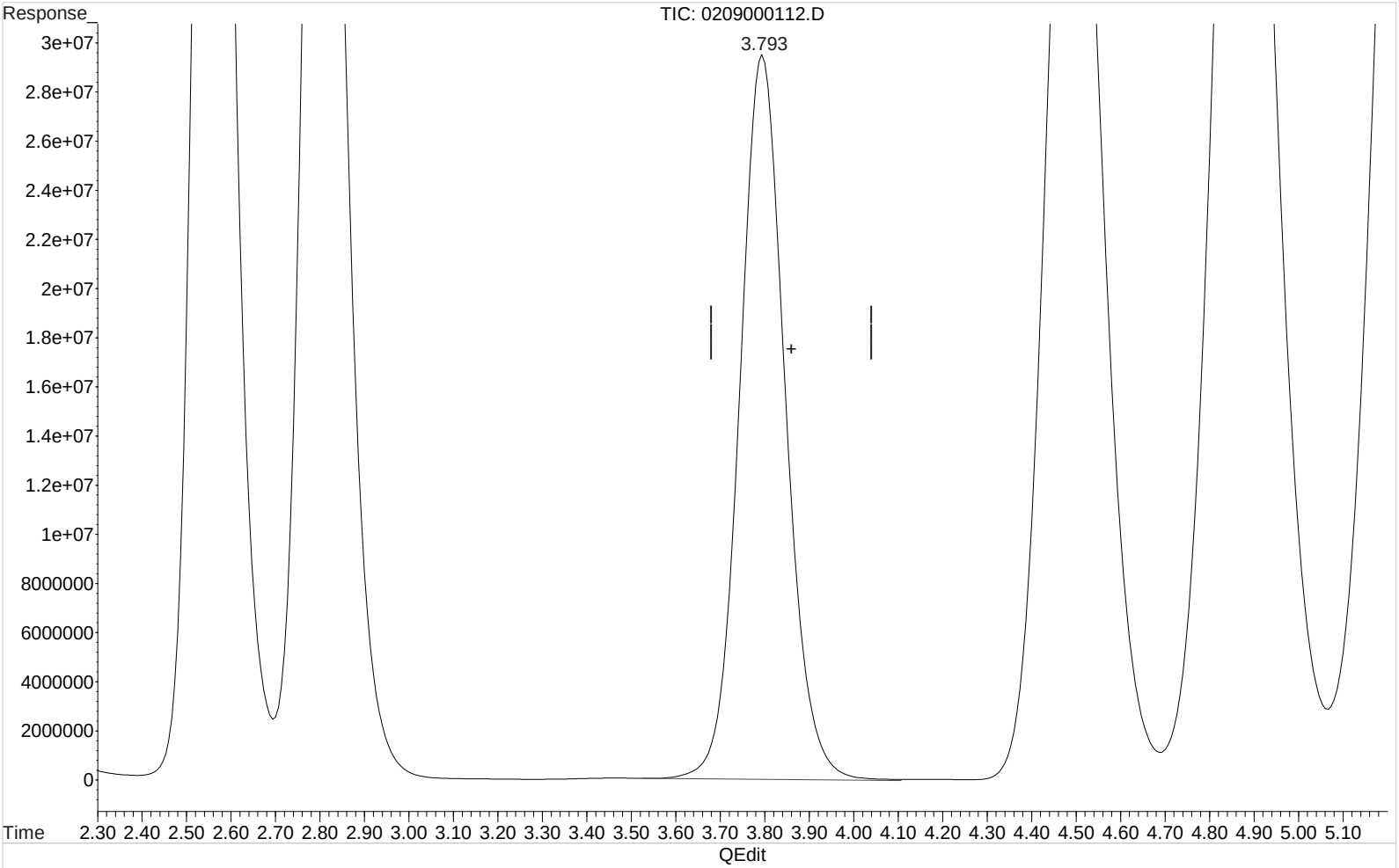
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000112.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:24:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:24:06 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.793min 10104.020 ug/L m

response 210346801

Manual Integration:

After

BLC

02/10/17

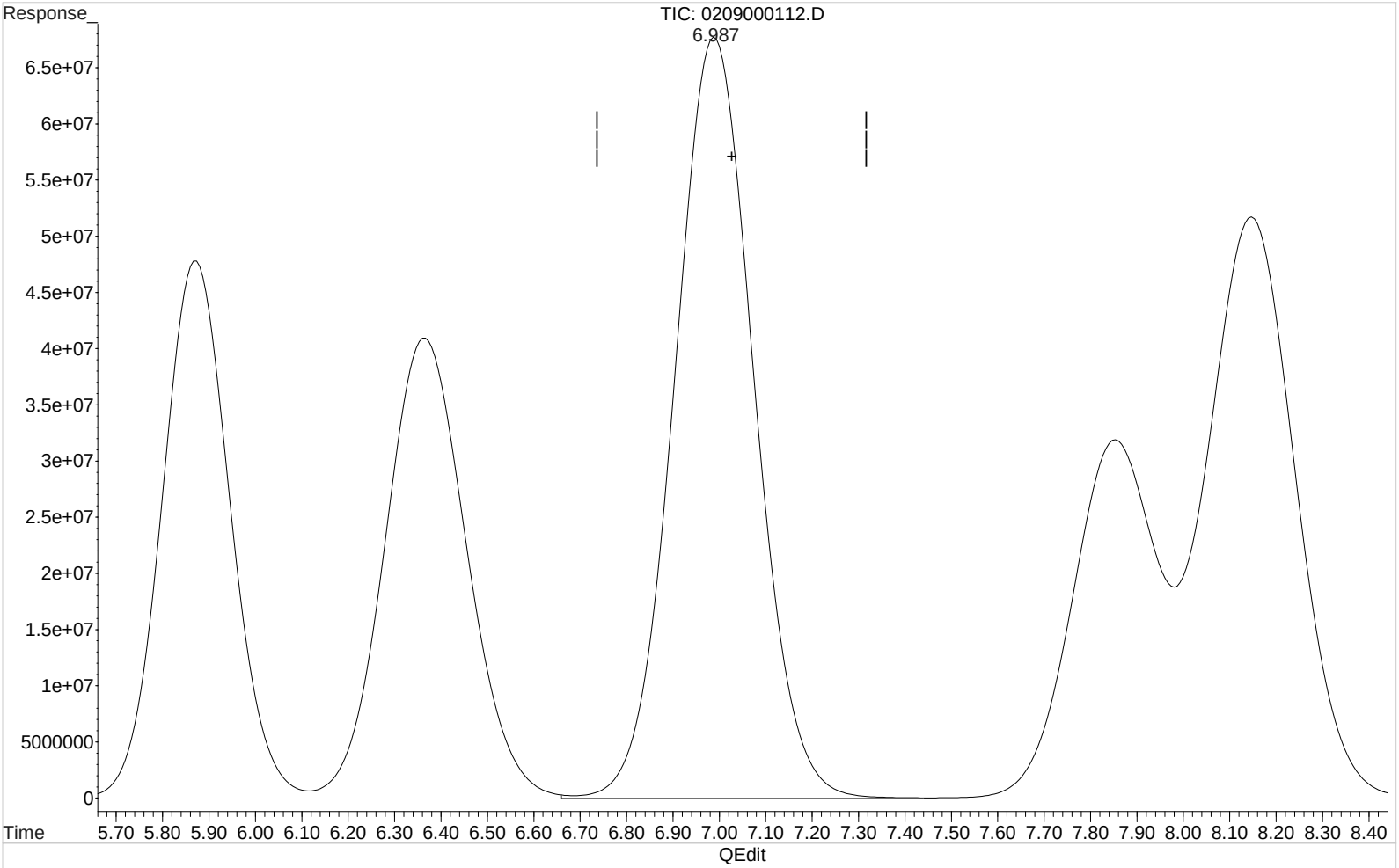
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000112.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:24:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:24:06 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.987min 10290.163 ug/L

response 812198027

Manual Integration:

Before

02/10/17

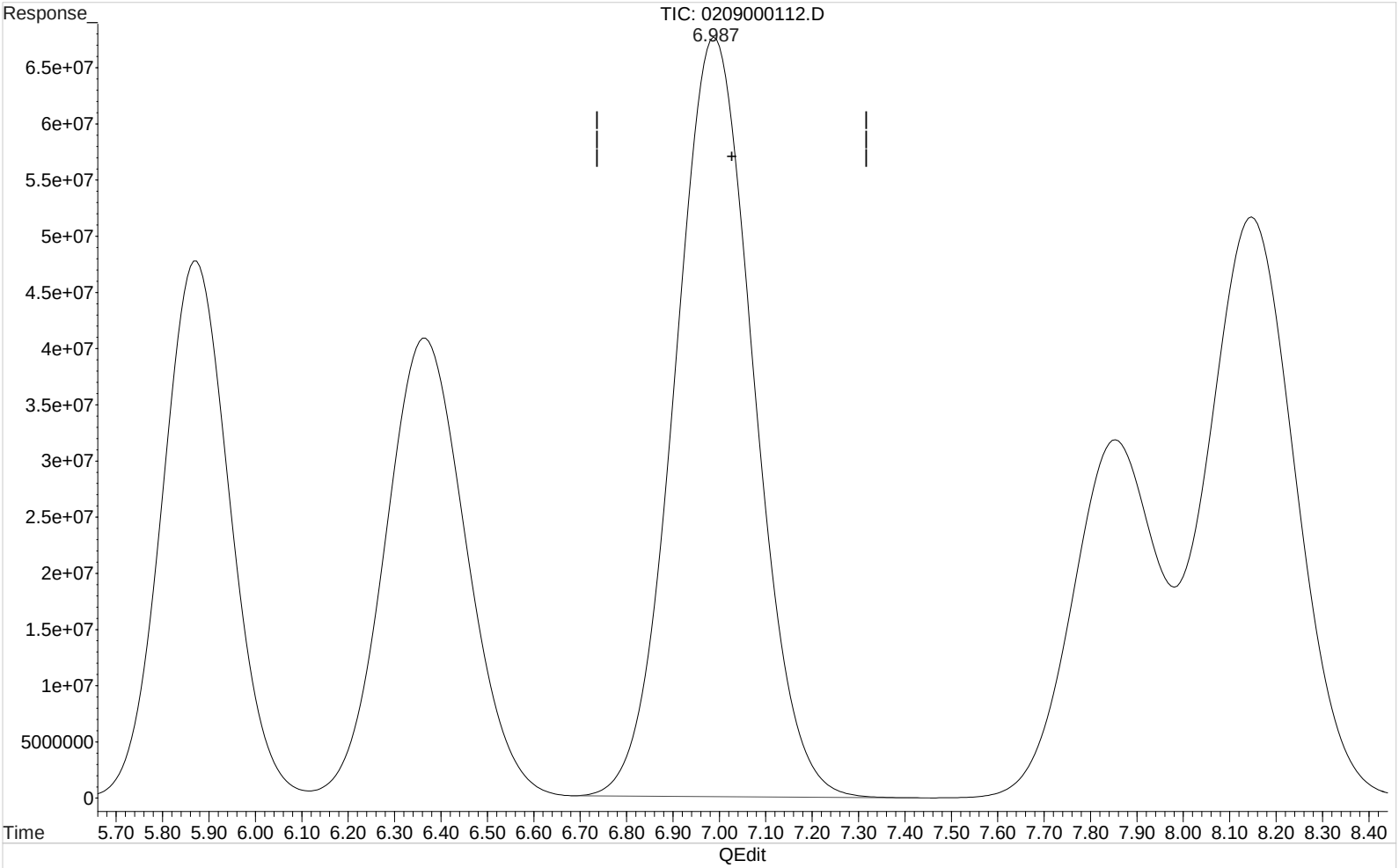
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000112.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:24:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:24:06 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.987min 10211.609 ug/L m

response 805997758

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000113.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:23:51 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:23:31 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	8.127	1388322466	NoCal	ug/L	m
Target Compounds						
1) T	Nitroglycerin	3.780	416362602	NoCal	ug/L	
2) T	PETN	6.973	1578591137	NoCal	ug/L	

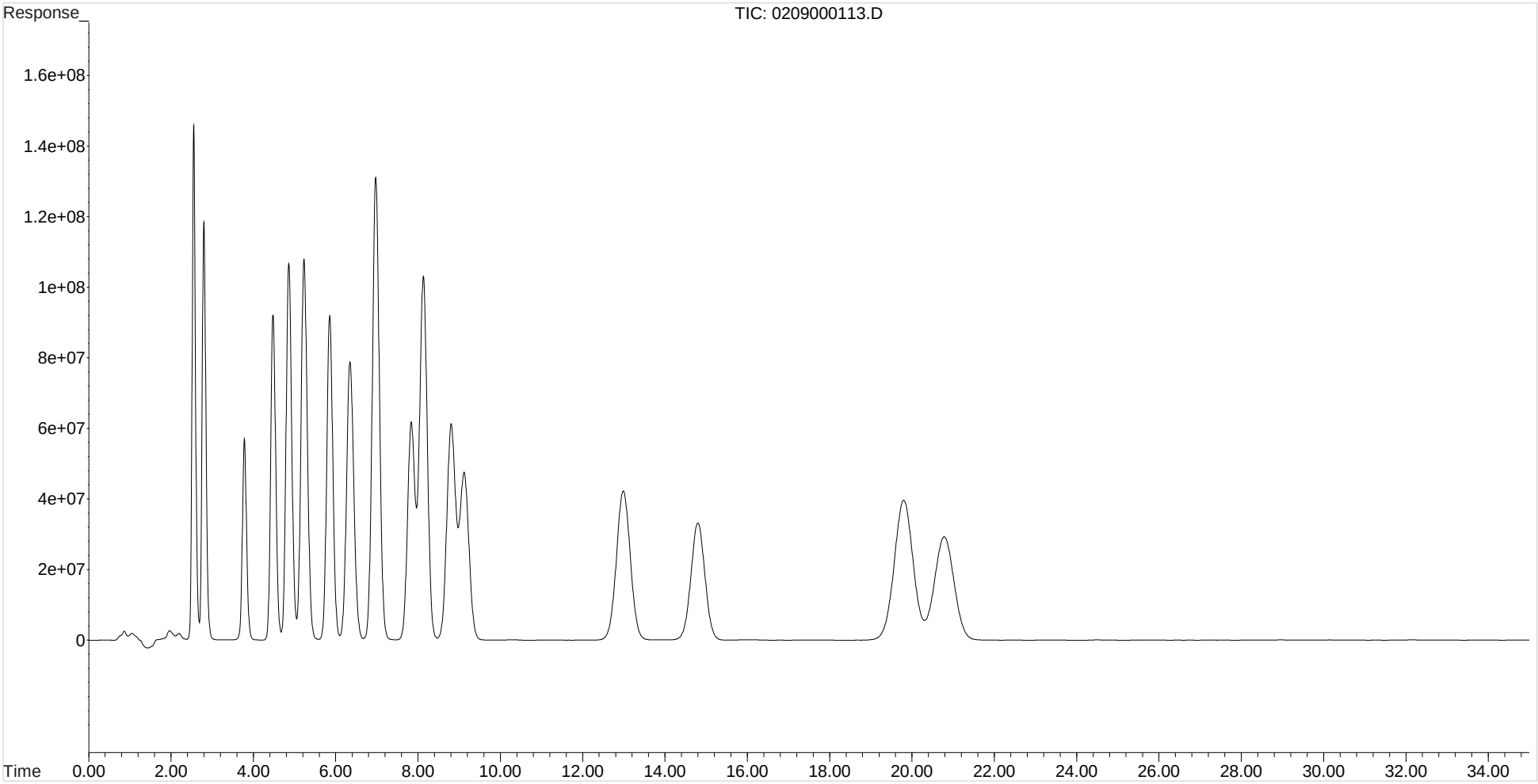
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000113.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:23:51 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:23:31 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(b) (6)

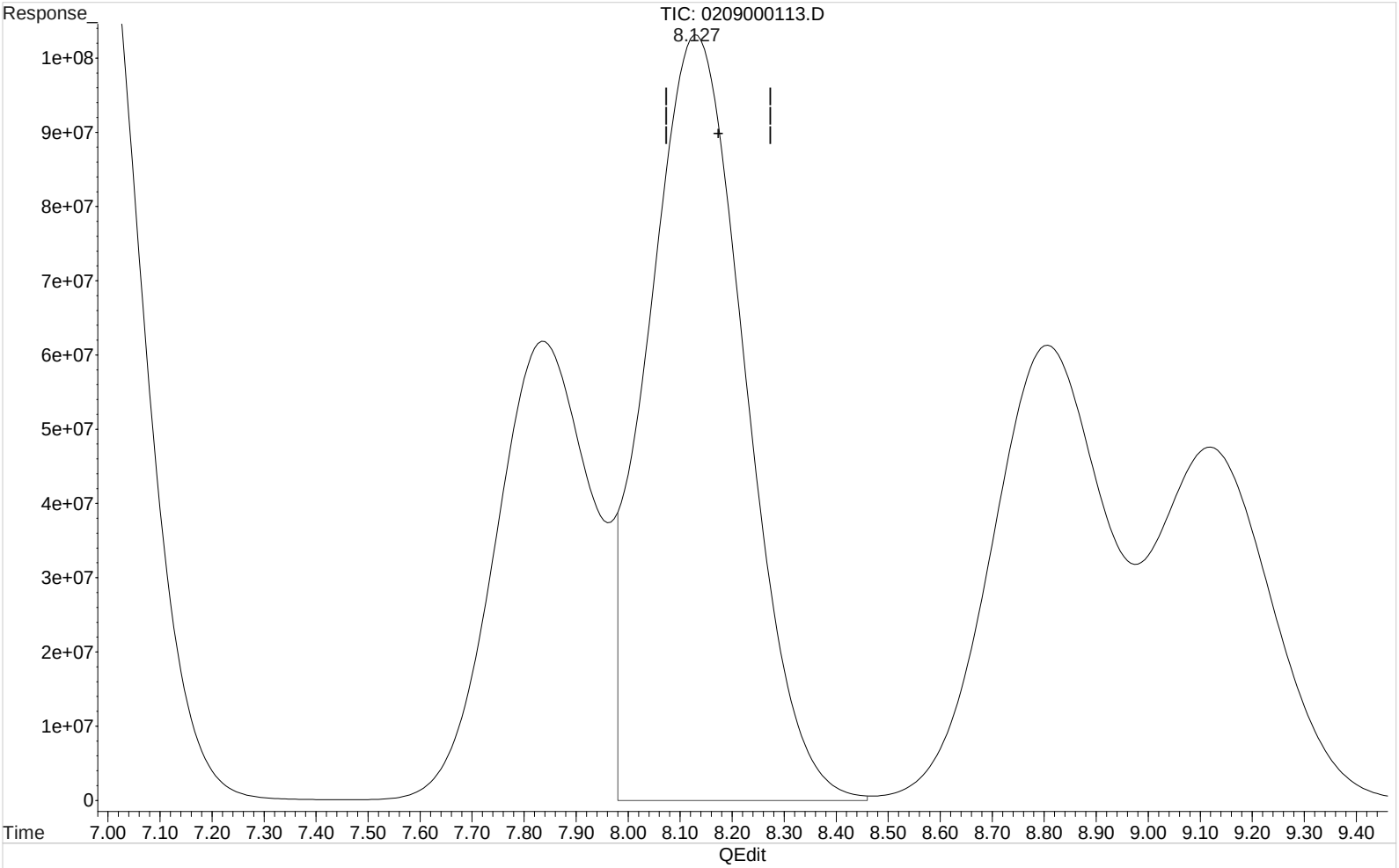
2/13/17

2/17/17

Data File : J:\LC08\Data\020917XC-210\0209000113.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:23:39 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:23:31 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.127min 0.000 ug/L

response 1344410632

Manual Integration:

Before

02/10/17

(+) = Expected Retention Time

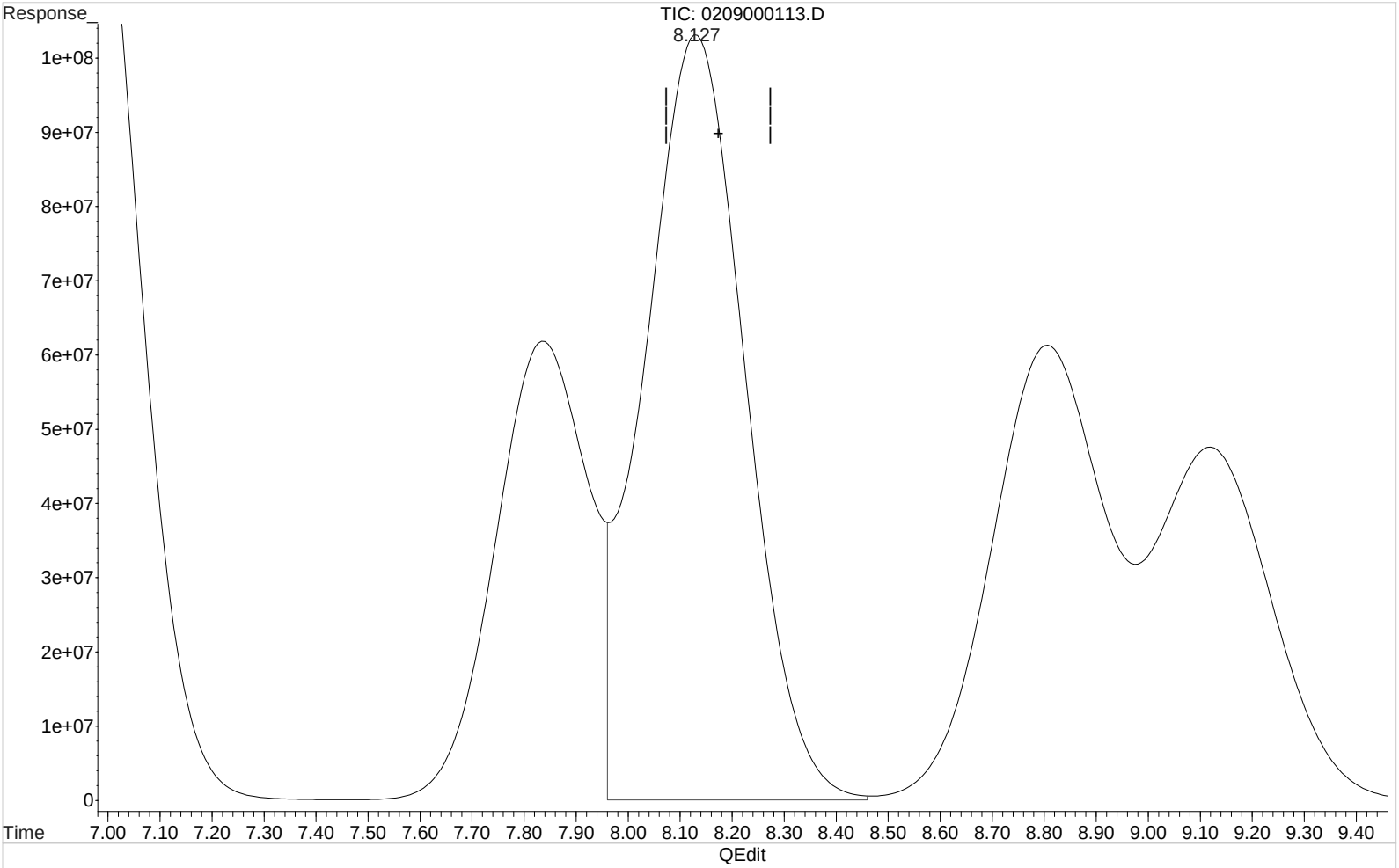
020917_Short_8330B@210.M Fri Feb 10 10:23:46 2017 Page: 1

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000113.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:23:39 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:23:31 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.127min 0.000 ug/L m

response 1388322466

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

(b) (6)

02/13/17

02/17/17

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000114.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 22:09:06 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:37:33 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
Target Compounds						
1) T	Nitroglycerin	0.000	0	N.D.	ug/L	
2) T	PETN	0.000	0	N.D.	ug/L	d

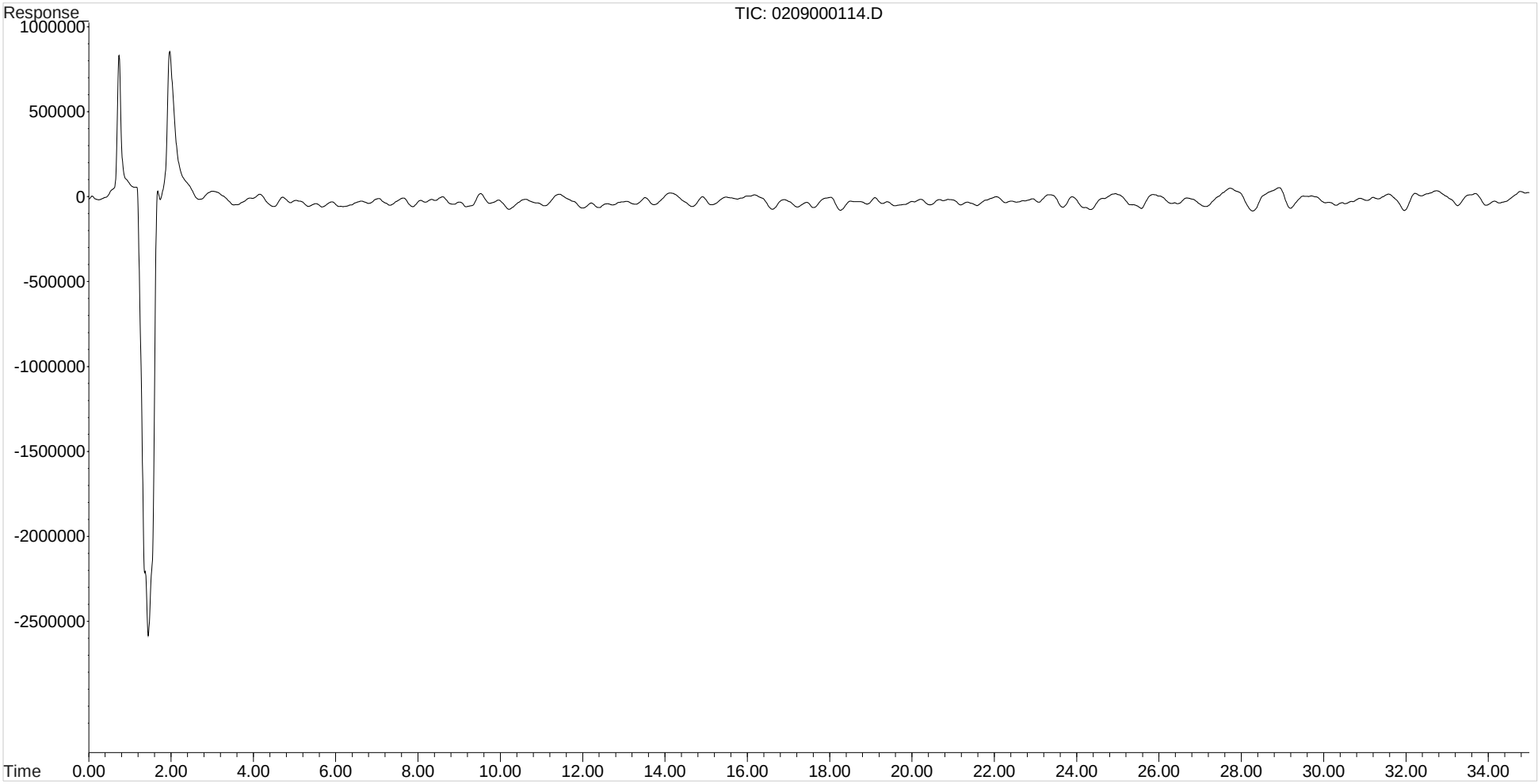
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000114.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 22:09:06 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:37:33 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000115.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:38:11 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	8.127	67923552	976.427 ug/L
Target Compounds				
1) T	Nitroglycerin	3.787	20764472	993.525 ug/L m
2) T	PETN	6.973	77460880	945.239 ug/L

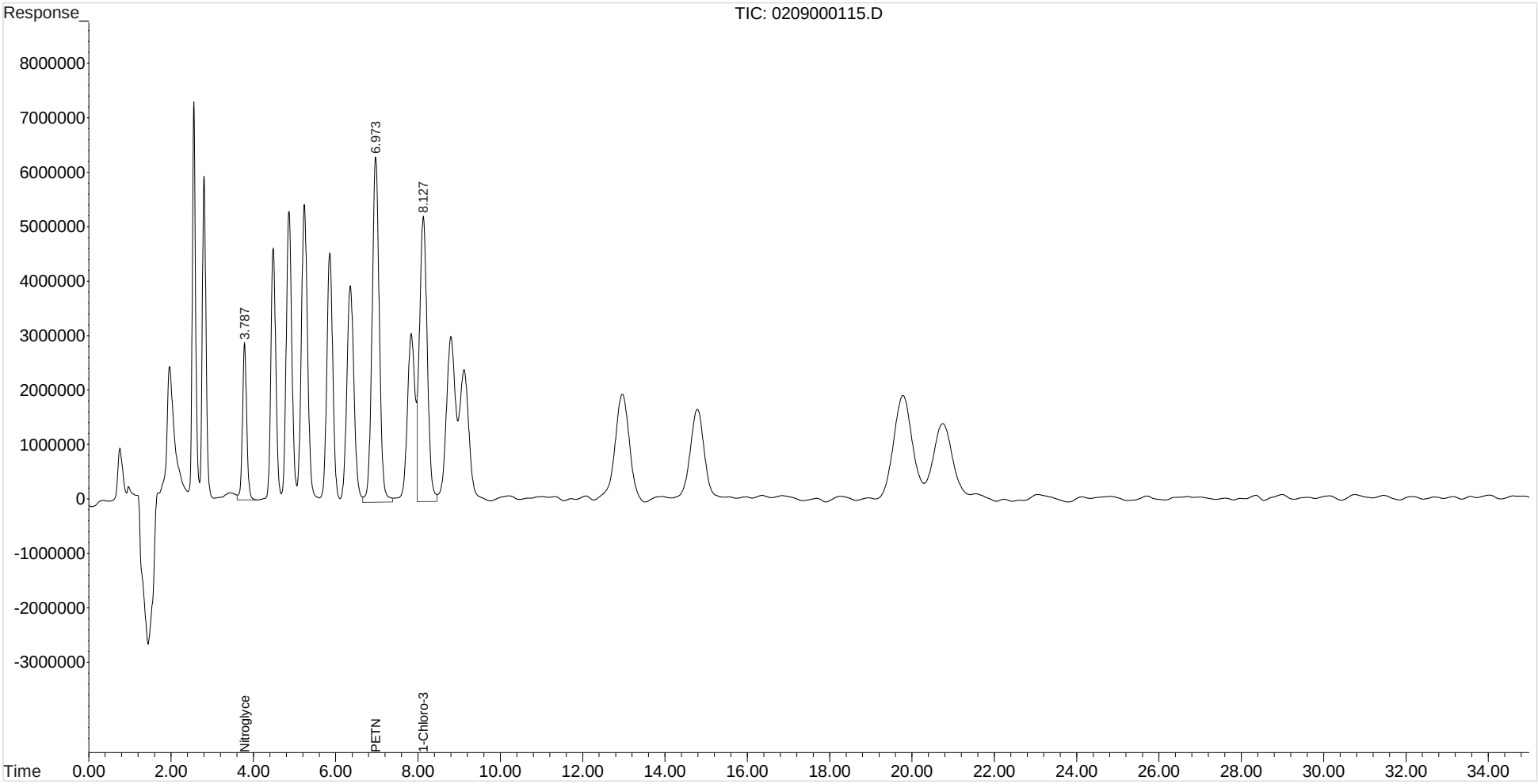
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000115.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:38:11 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

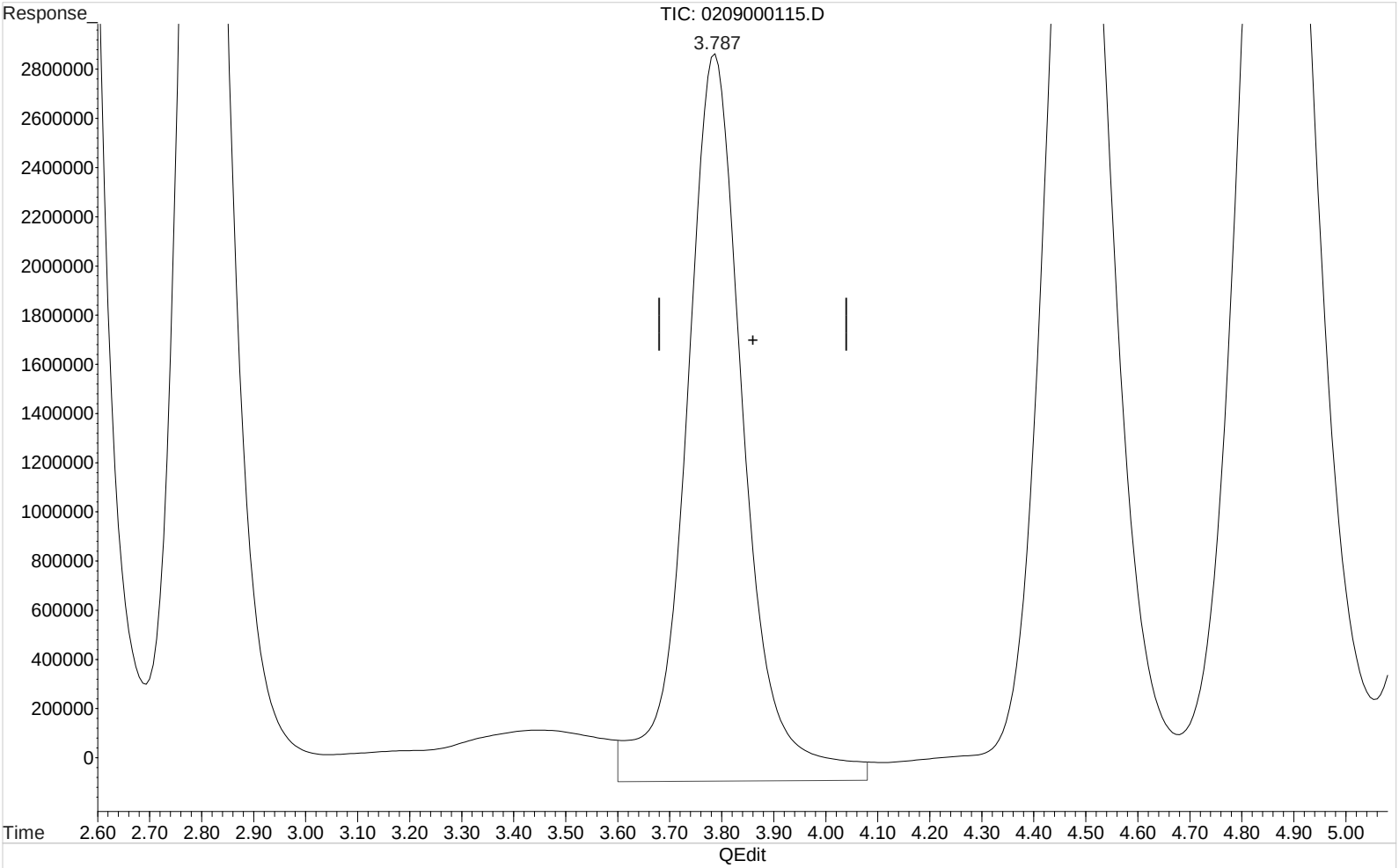


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000115.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:37:47 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.787min 1099.844 ug/L

response 22986522

Manual Integration:

Before

02/10/17

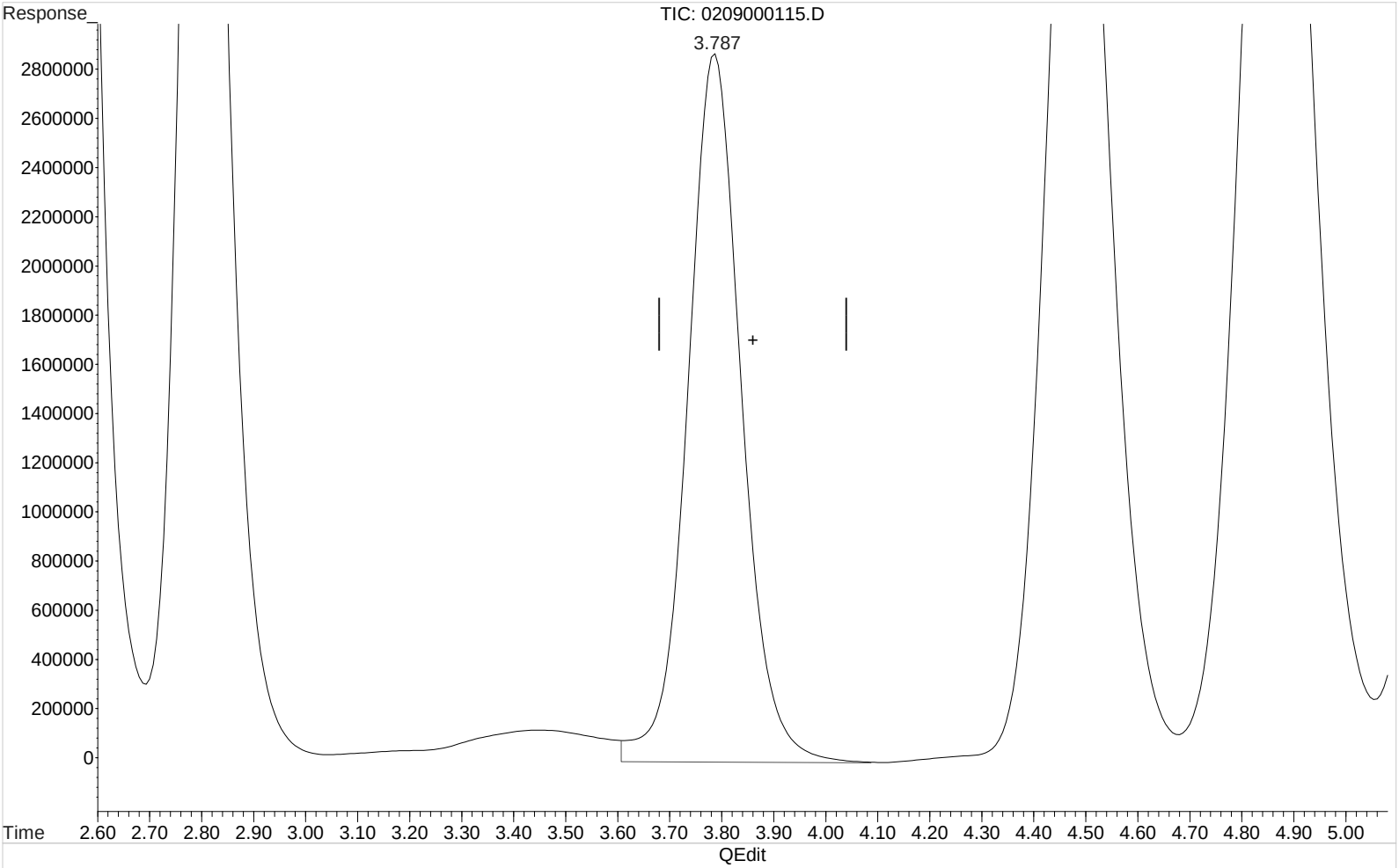
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000115.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:37:47 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.787min 993.525 ug/L m

response 20764472

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Date: 2/9/2017 XC-254 YC-210

ALS Environmental

ICAL Date: 2/9/2017

By: AE

Injection Log

ICAL ID: CAL 15185 (210) CAL 15192 (254)

Stealth ID: N/A **LC8 - Agilent 1260** **LIMS ID:** N/A

2nd Review:

Column: Ultra Aromax SN: 150411353J

Mobile Phases A: MeOH Lot#: 56189 **B:** ACN Lot#: 56207 **C:** H_2O Lot#: 56160 NA

		File Name	Method	Dilution	R	Comments
1	PRIMER	0209000101	8330BXC.M	NA		
2	PRIMER	0209000102	8330BXC.M	NA	X	
3	IB	0209000103	8330BXC.M	NA	X	
4	17-OLC-01-09J 20 PPB	0209000104	8330BXC.M	NA	X	
5	17-OLC-01-09I 50 PPB	0209000105	8330BXC.M	NA	X	
6	17-OLC-01-09H 100 PPB	0209000106	8330BXC.M	NA	X	
7	17-OLC-01-09G 200 PPB	0209000107	8330BXC.M	NA	X	
8	17-OLC-01-09F 500 PPB	0209000108	8330BXC.M	NA	X	
9	17-OLC-01-09E 1000 PPB	0209000109	8330BXC.M	NA	X	
10	17-OLC-01-09D 2000 PPB	0209000110	8330BXC.M	NA	X	
11	17-OLC-01-09C 5000 PPB	0209000111	8330BXC.M	NA	X	
12	17-OLC-01-09B 10000 PPB	0209000112	8330BXC.M	NA	X	
13	17-OLC-01-09A 20000 PPB	0209000113	8330BXC.M	NA	X	
14	IB	0209000114	8330BXC.M	NA	X	
15	17-OLC-01-09K 1000 PPB ICV	0209000115	8330BXC.M	NA	X	
16	IB	0209000116	8330BXC.M	NA	X	

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000103.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 15:23:38 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:25:25 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
11) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	
	Target Compounds					
1) T	HMX	0.000	0	N.D.	ug/L	d
2) T	RDX	0.000	0	N.D.	ug/L	
3) T	Nitrobenzene	0.000	0	N.D.	ug/L	
4) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L	d
5) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L	d
6) T	2-NT	0.000	0	N.D.	ug/L	
7) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L	d
8) T	3-NT	0.000	0	N.D.	ug/L	d
9) T	1,3-DNB	0.000	0	N.D.	ug/L	
10) T	4-NT	0.000	0	N.D.	ug/L	
12) T	2,6-DNT	0.000	0	N.D.	ug/L	
13) T	2,4-DNT	0.000	0	N.D.	ug/L	d
14) T	Tetryl	0.000	0	N.D.	ug/L	d
15) T	1,3,5-TNB	0.000	0	N.D.	ug/L	d
16) T	2,4,6-TNT	0.000	0	N.D.	ug/L	d

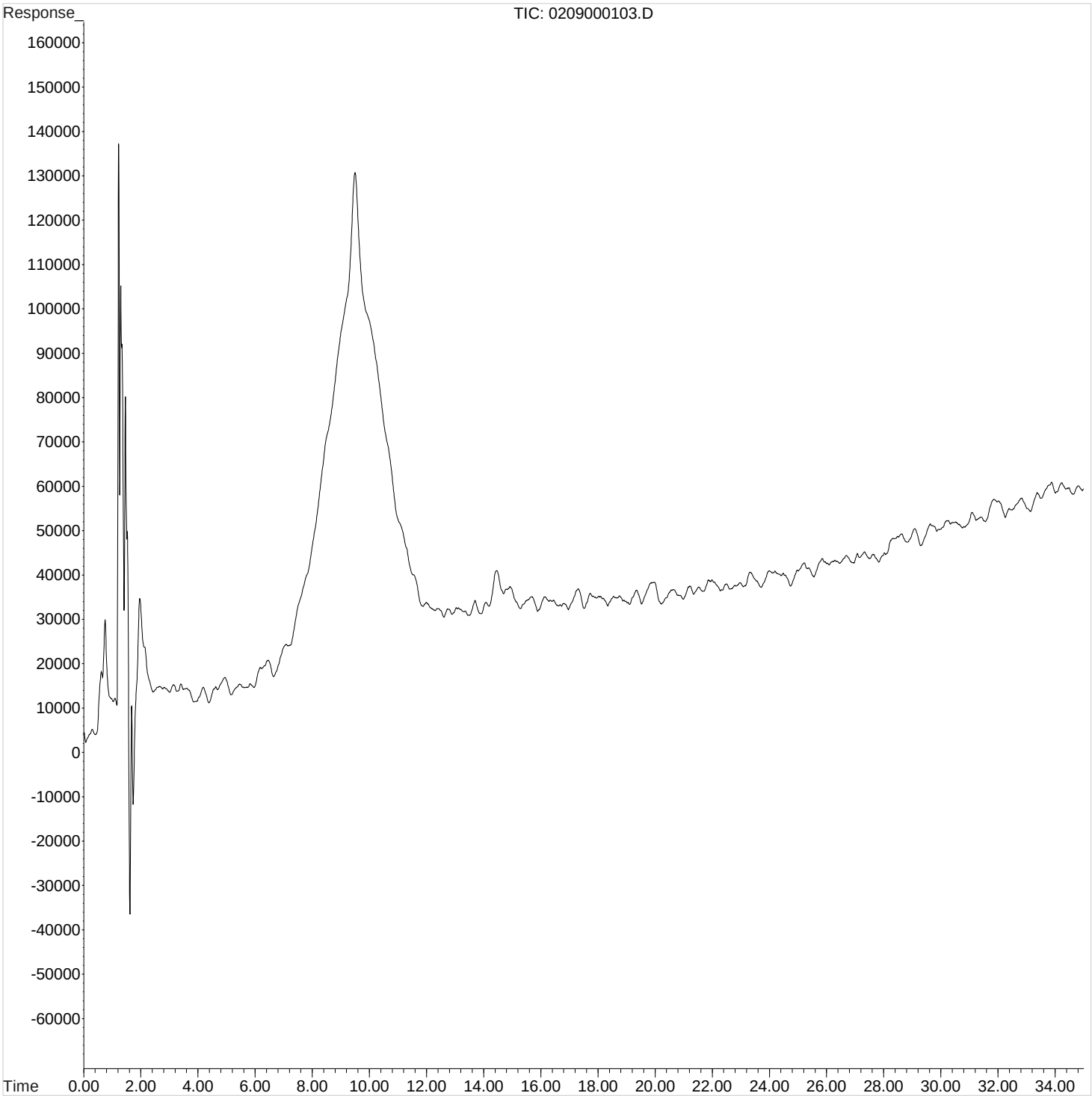
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000103.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 15:23:38 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:25:25 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:16:35 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
11) S	1-Chloro-3-Nitrobenzene	8.147	514214	19.490	ug/L	m
	Target Compounds					
1) T	HMX	2.553	294269	18.763	ug/L	m
2) T	RDX	2.807	452332	24.916	ug/L	m
3) T	Nitrobenzene	4.487	743763	19.991	ug/L	m
4) T	3,5-Dinitroaniline	5.247	964857	20.844	ug/L	m
5) T	4-Amino-2,6-DNT	4.873	652694	20.547	ug/L	m
6) T	2-NT	5.867	473214	20.100	ug/L	m
7) T	2-Amino-4,6-DNT	6.367	889746	21.218	ug/L	m
8) T	3-NT	6.987	566568	20.307	ug/L	m
9) T	1,3-DNB	9.147	1128441	20.188	ug/L	m
10) T	4-NT	7.853	544768	23.816	ug/L	m
12) T	2,6-DNT	8.827	491185	20.081	ug/L	m
13) T	2,4-DNT	14.827	1250552	24.282	ug/L	
14) T	Tetryl	12.993	621836	21.319	ug/L	m
15) T	1,3,5-TNB	19.800	970683	23.433	ug/L	
16) T	2,4,6-TNT	20.793	819690	21.258	ug/L	

(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)

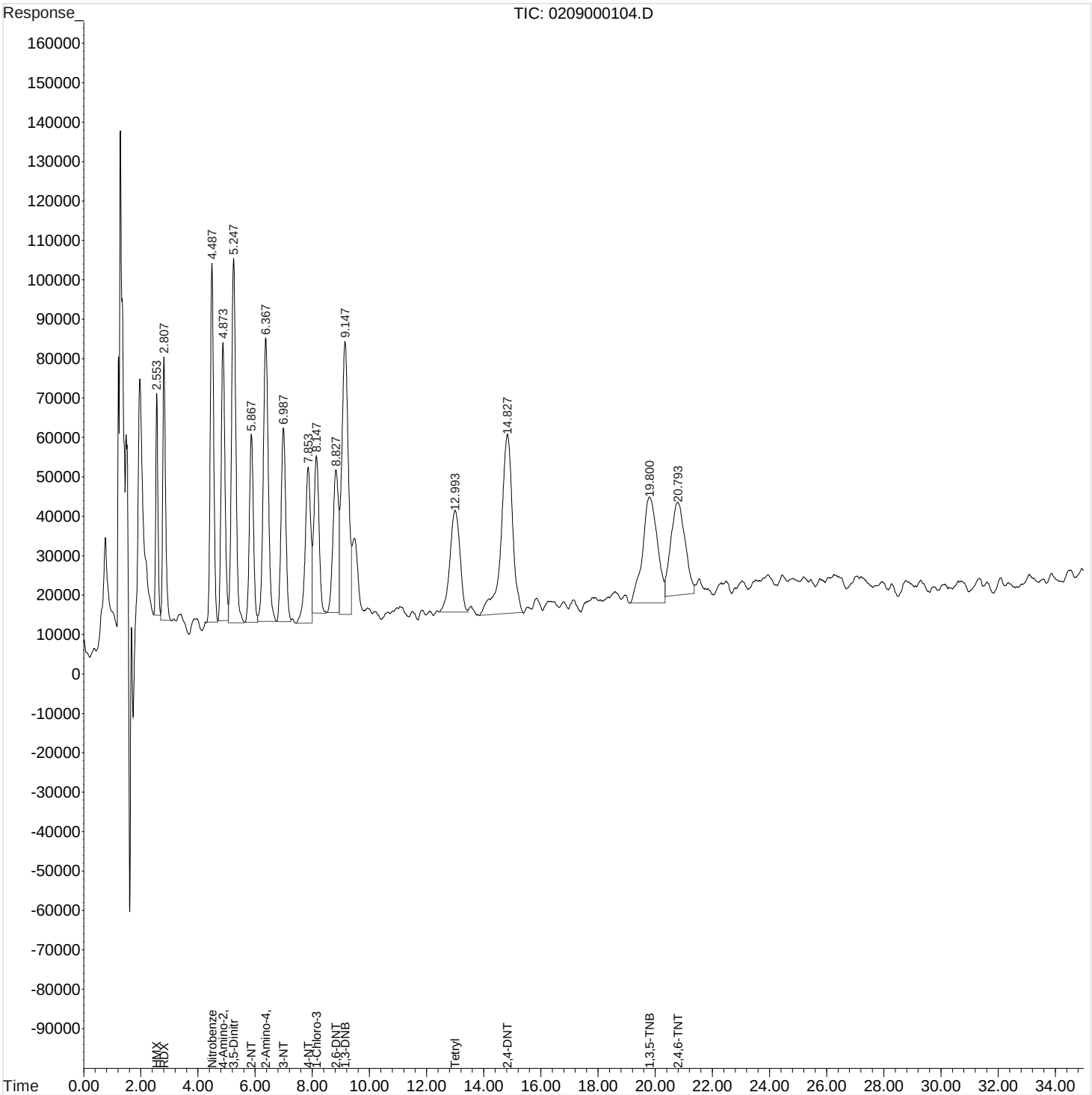
2/13/17

2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:16:35 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

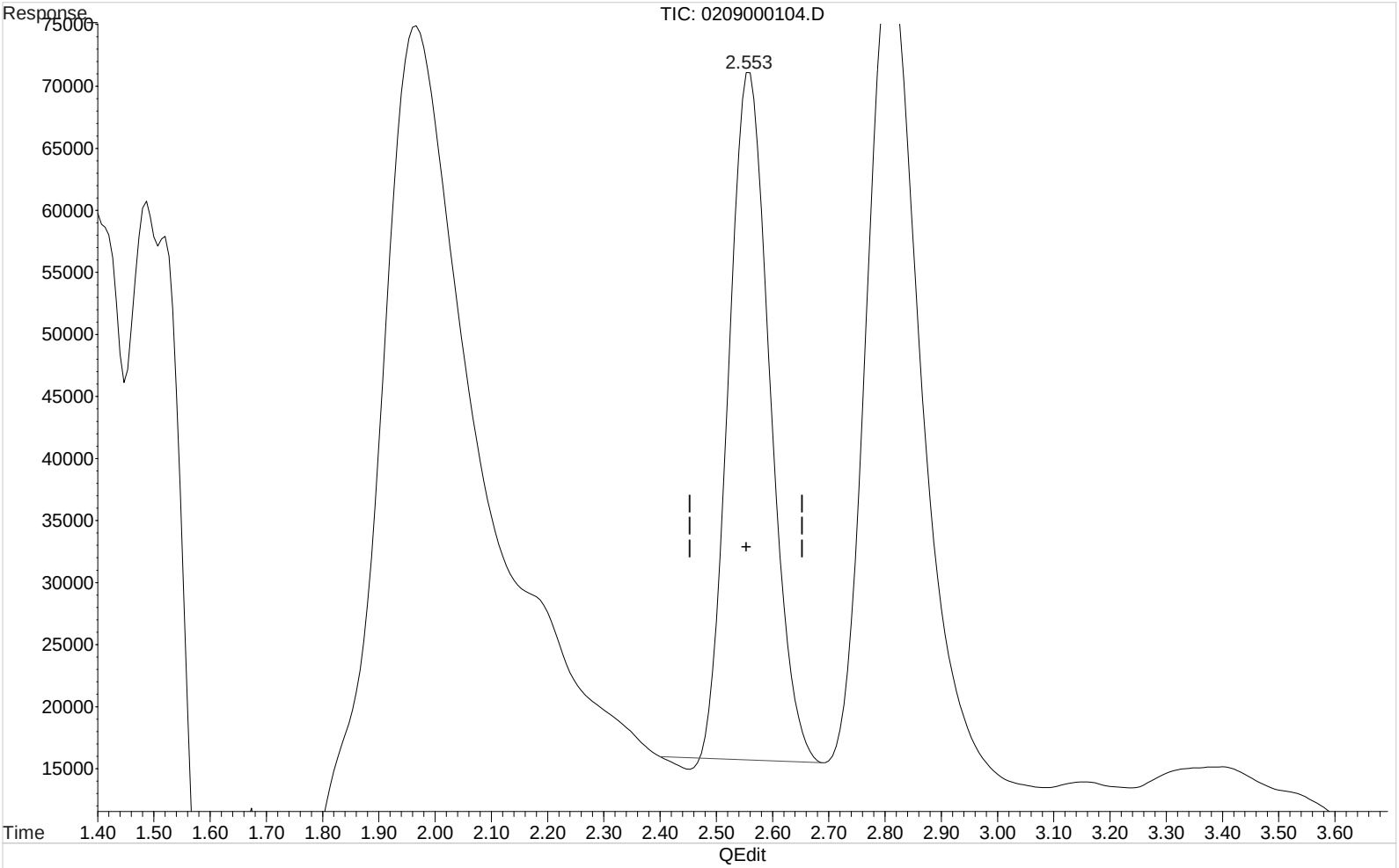


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.553min 17.958 ug/L

response 281642

Manual Integration:

Before

02/13/17

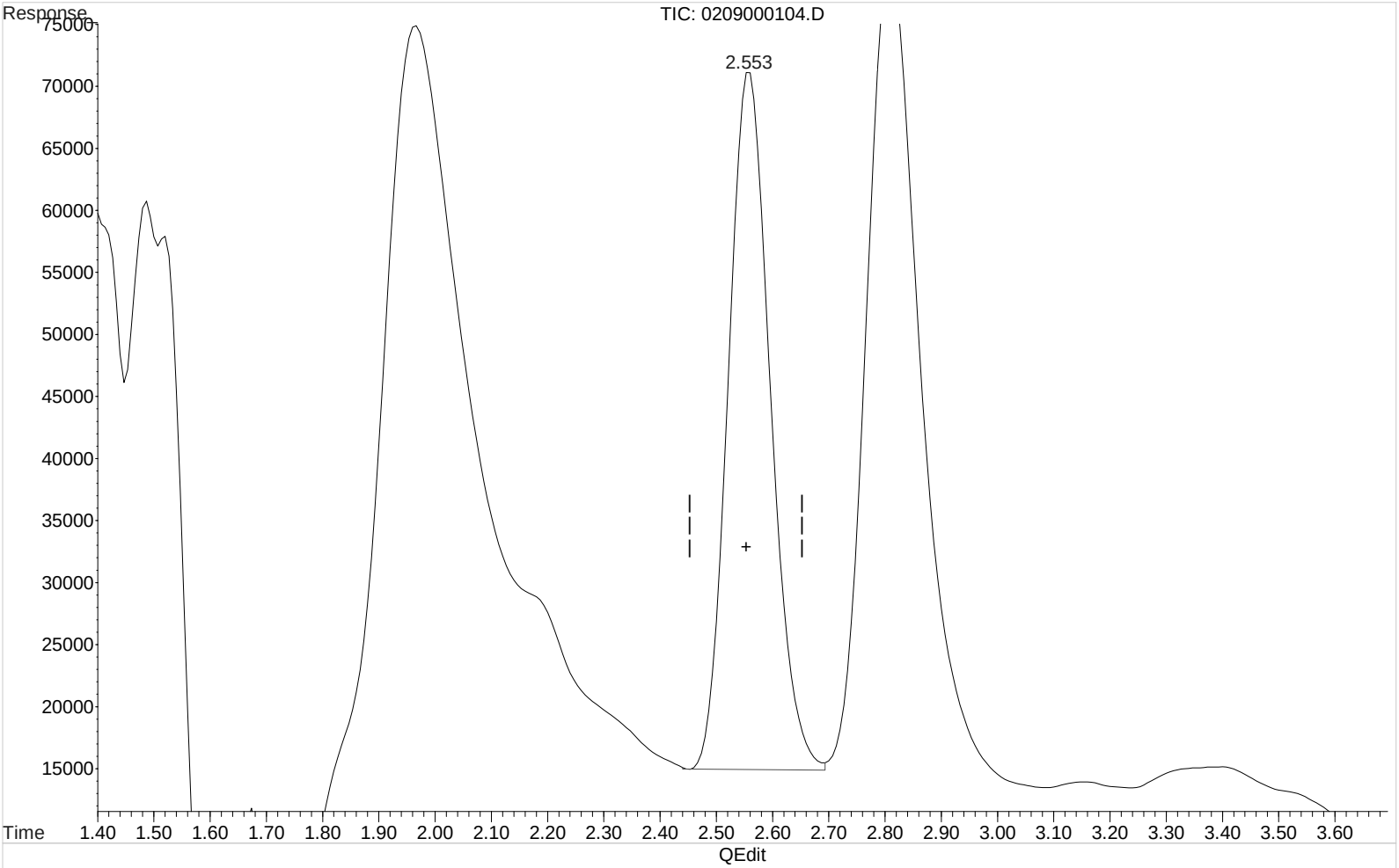
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(1) HMX (T)

2.553min 18.763 ug/L m

response 294269

Manual Integration:

After

BLC

02/13/17

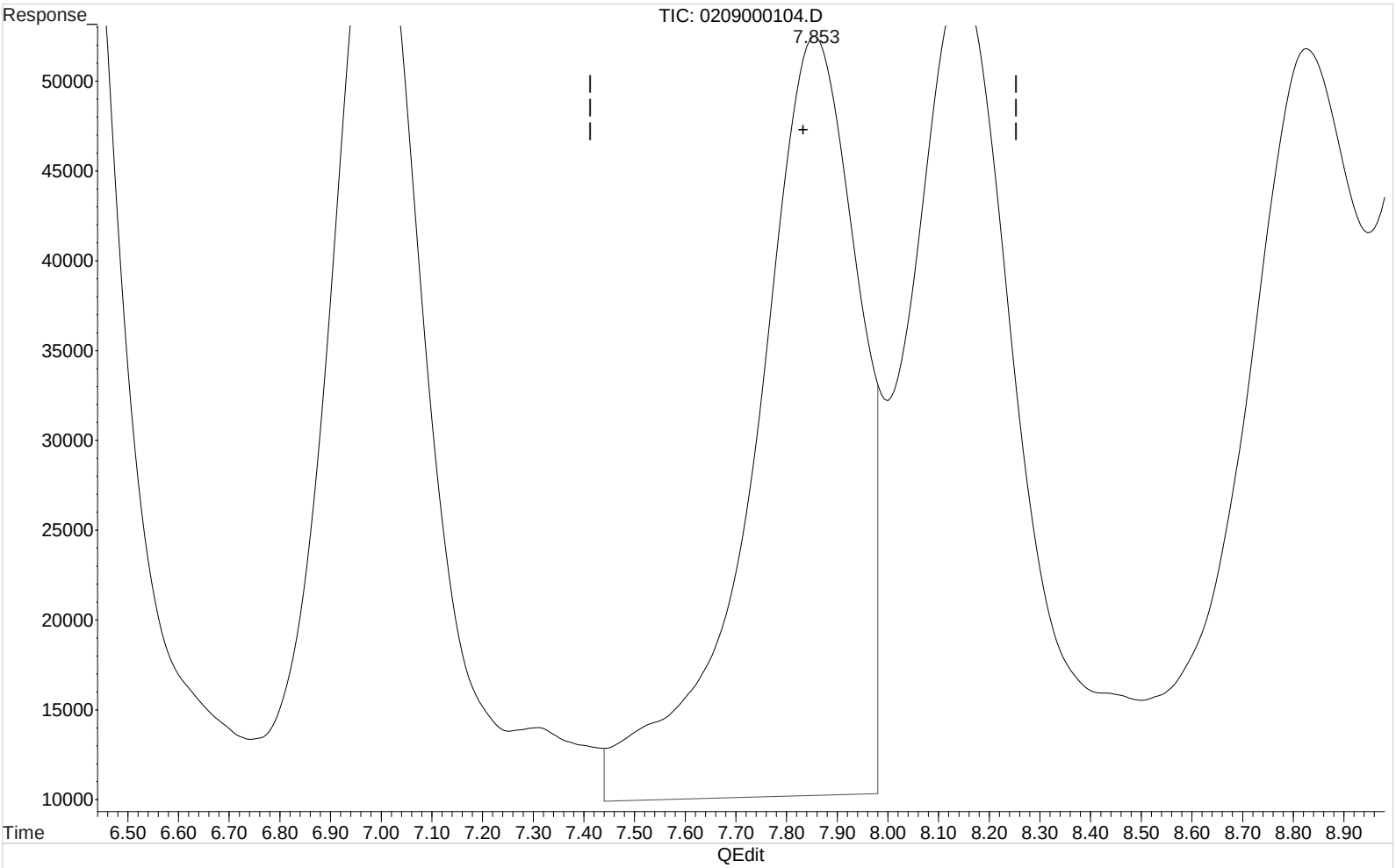
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.853min 26.678 ug/L

response 610248

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

(b) (6)

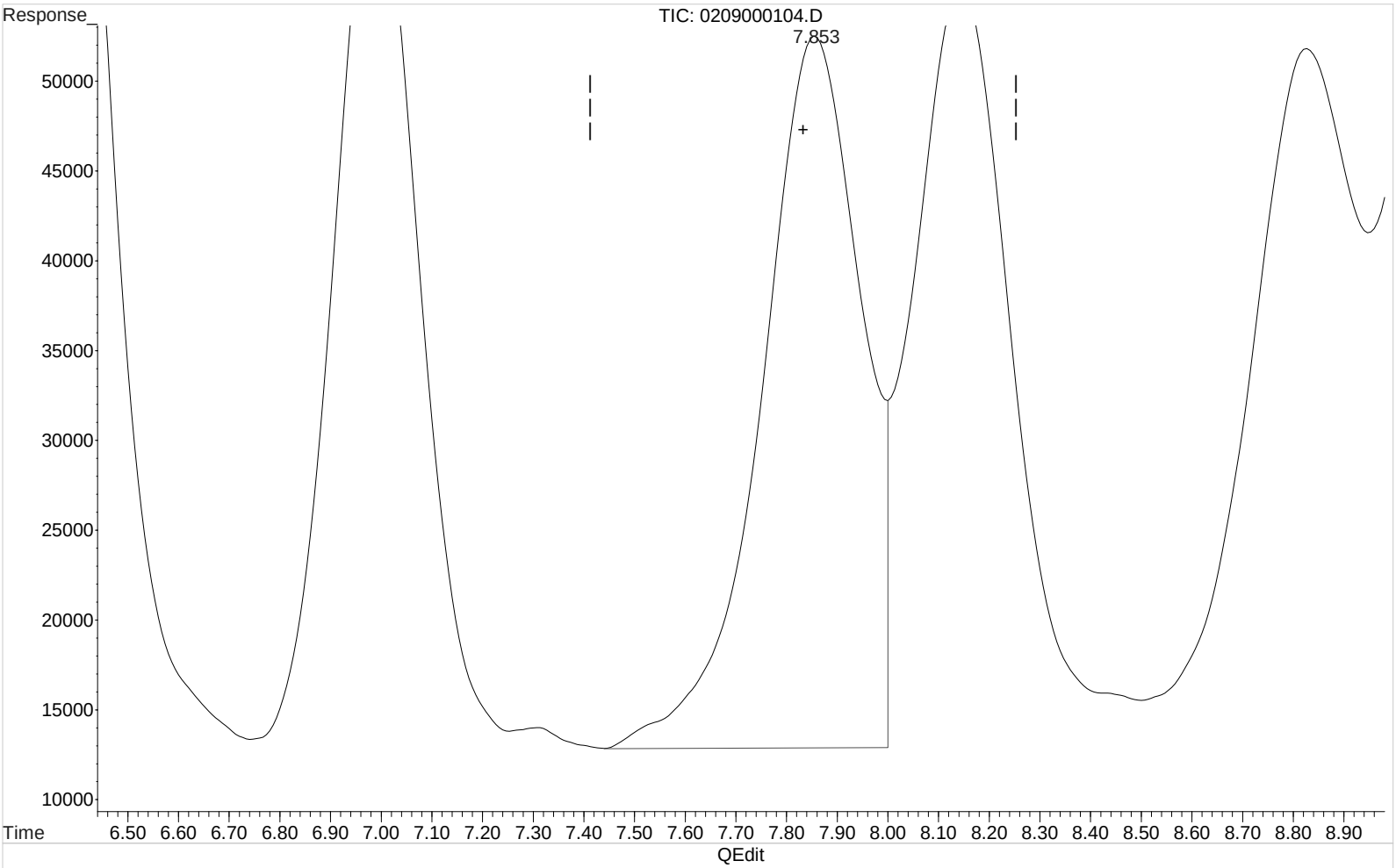
3/17

7/17

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(10) 4-NT (T)

7.853min 23.816 ug/L m

response 544768

Manual Integration:

After

BLC

02/13/17

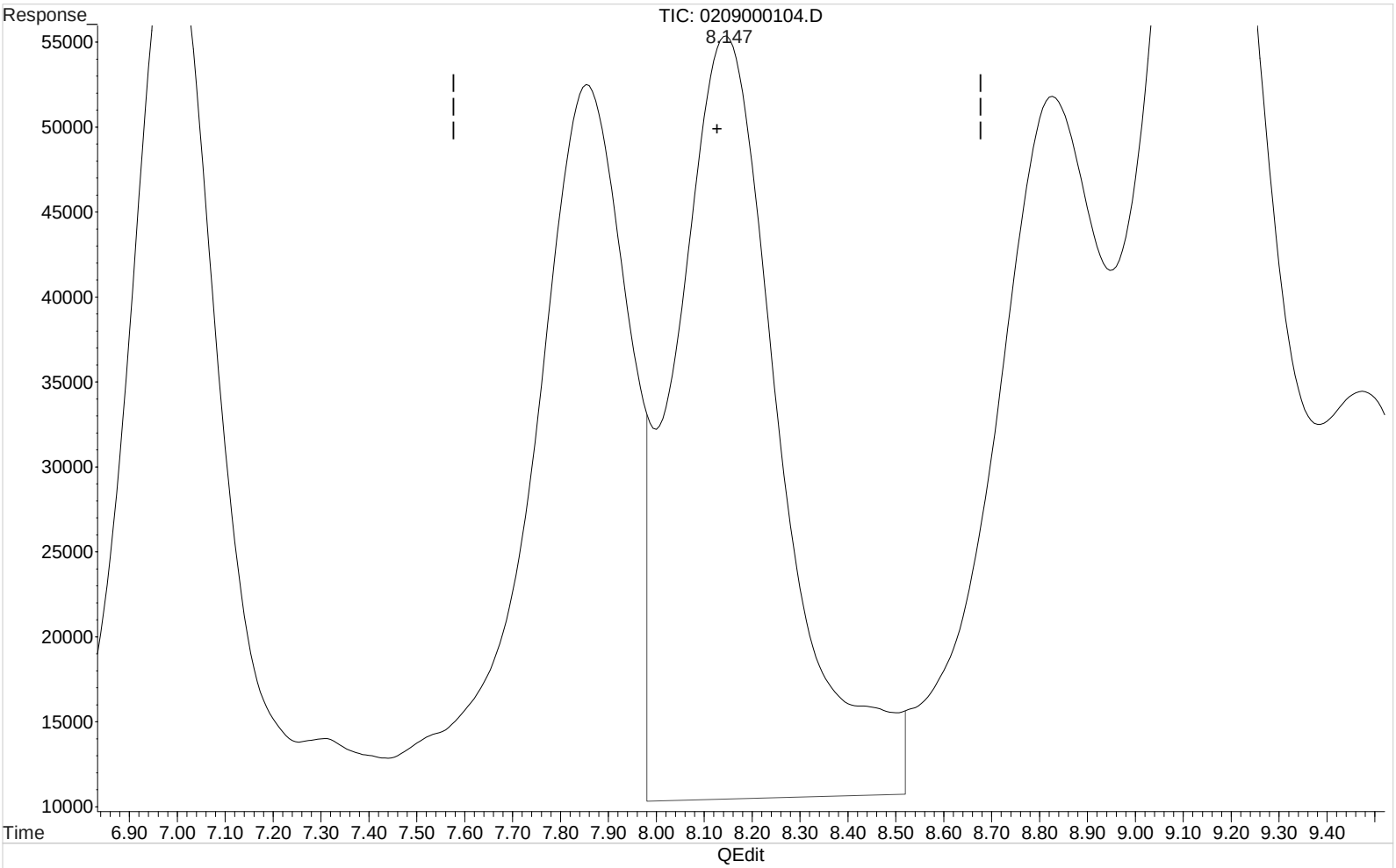
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(11) 1-Chloro-3-Nitrobenzene (S)

8.147min 25.798 ug/L

response 680648

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

(b) (6)

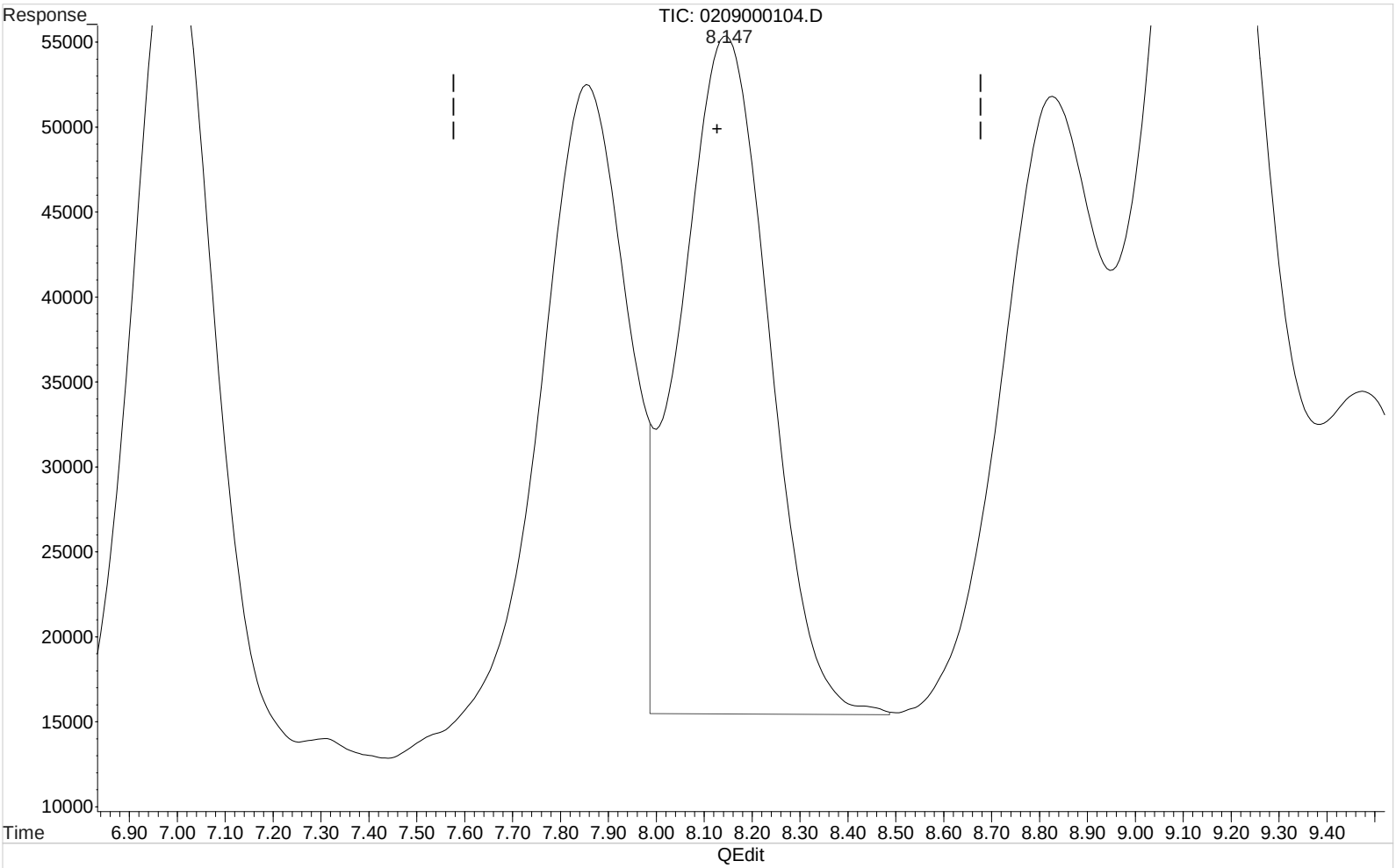
/13/17

/17/17

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(11) 1-Chloro-3-Nitrobenzene (S)

8.147min 19.490 ug/L m

response 514214

Manual Integration:

After

BLC

02/13/17

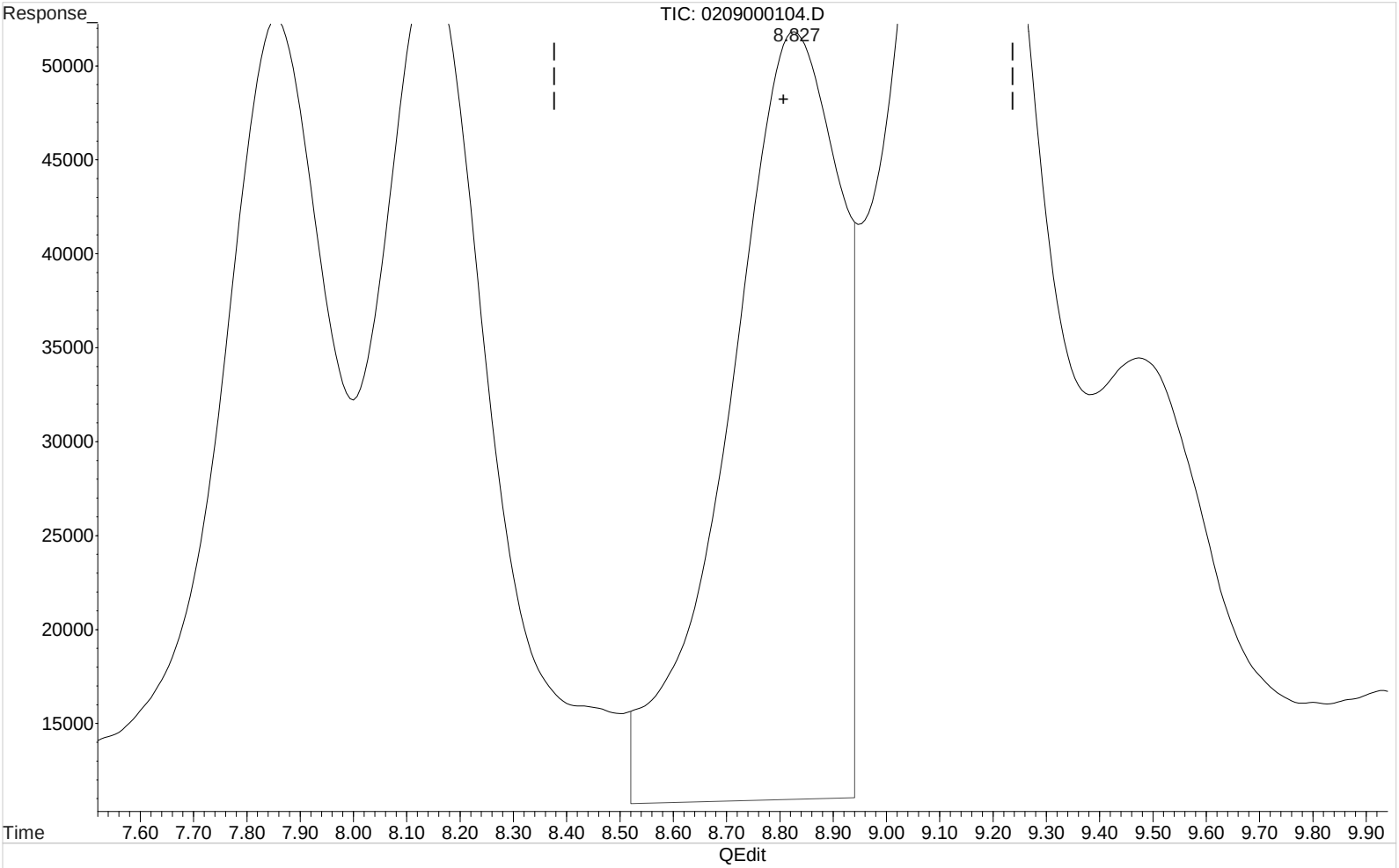
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(12) 2,6-DNT (T)

8.827min 24.500 ug/L

response 599282

Manual Integration:

Before

02/13/17

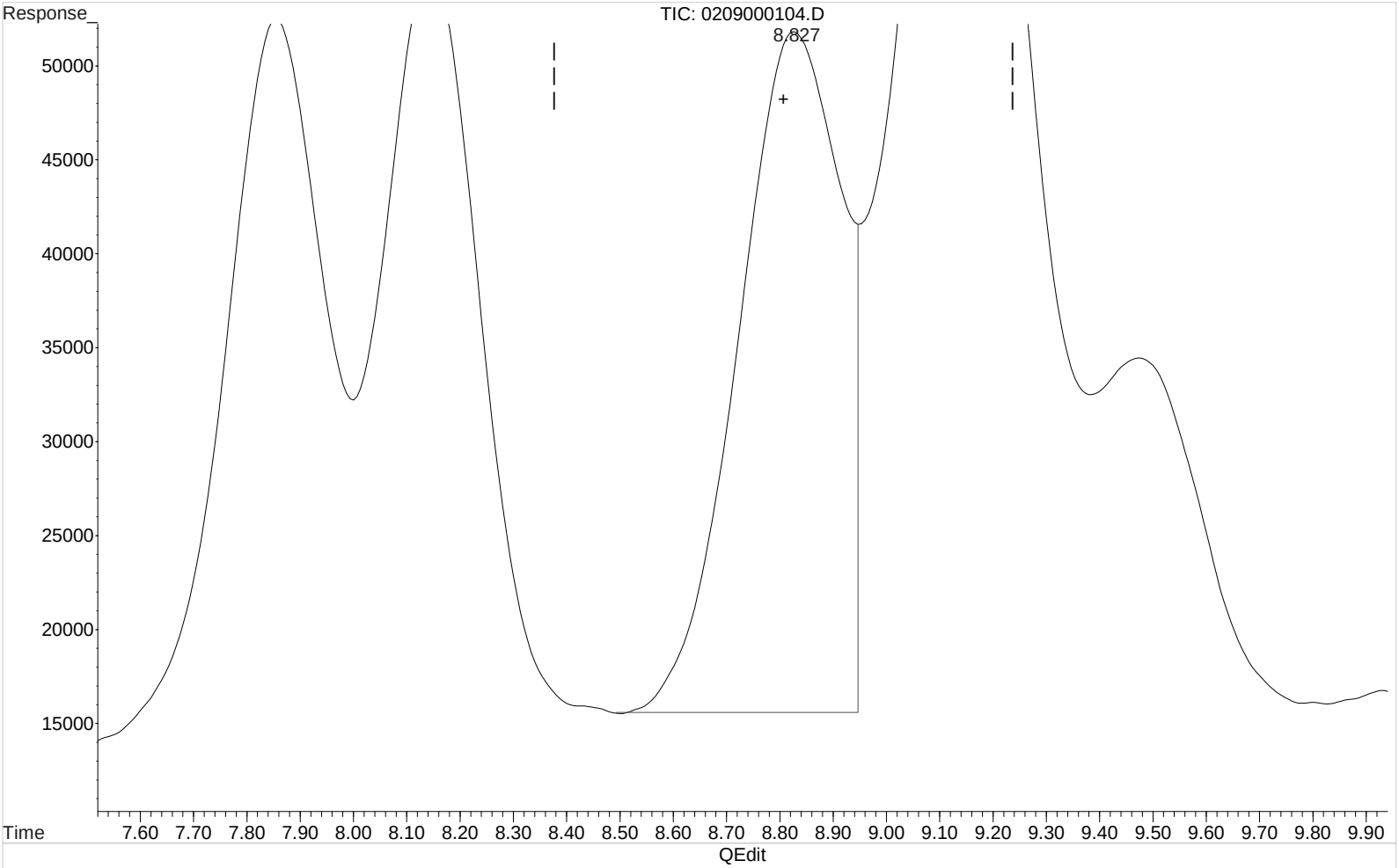
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(12) 2,6-DNT (T)

8.827min 20.081 ug/L m

response 491185

Manual Integration:

After

BLC

02/13/17

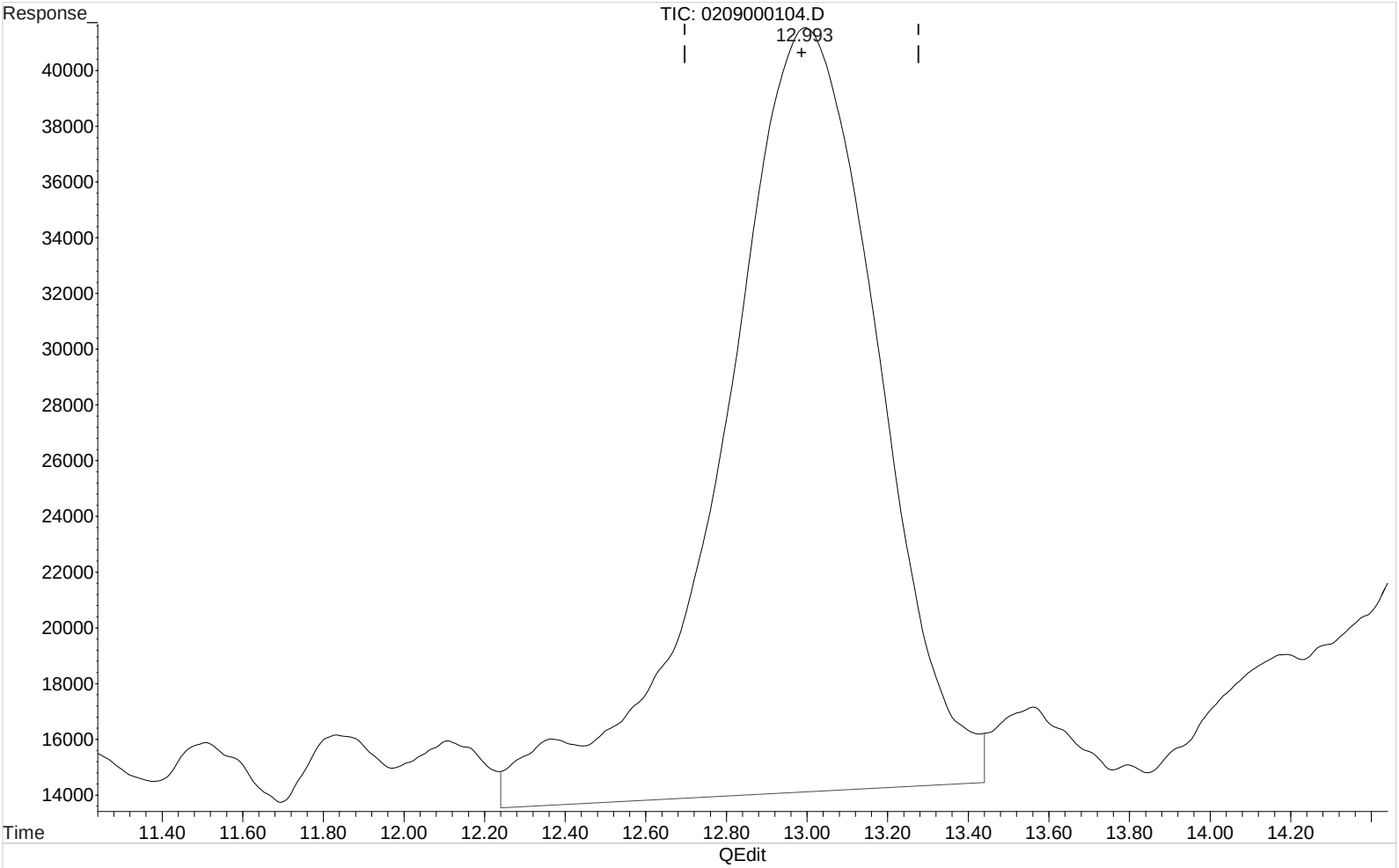
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(14) Tetryl (T)

12.993min 25.507 ug/L

response 743989

Manual Integration:

Before

02/13/17

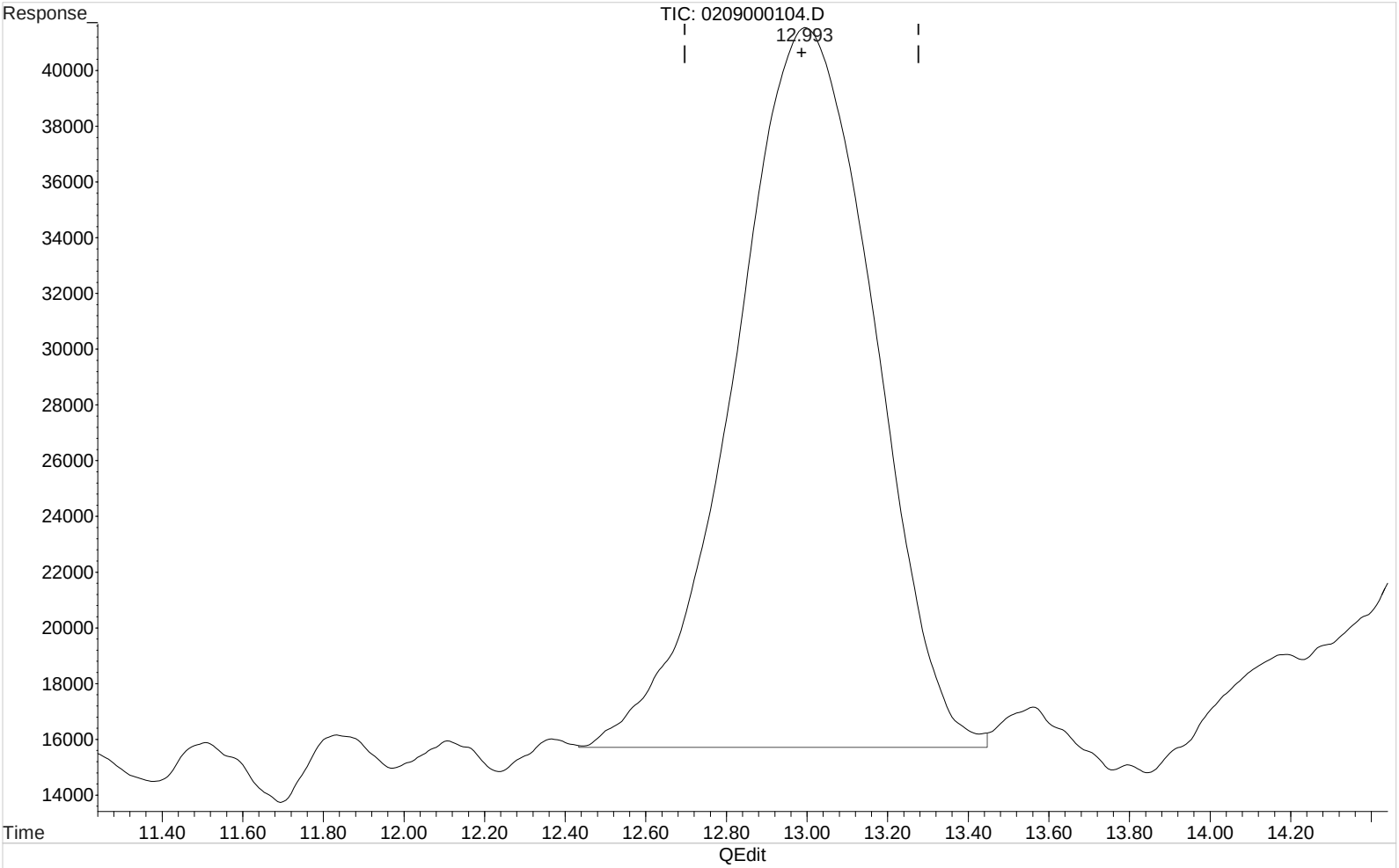
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(14) Tetryl (T)

12.993min 21.319 ug/L m

response 621836

Manual Integration:

After

BLC

02/13/17

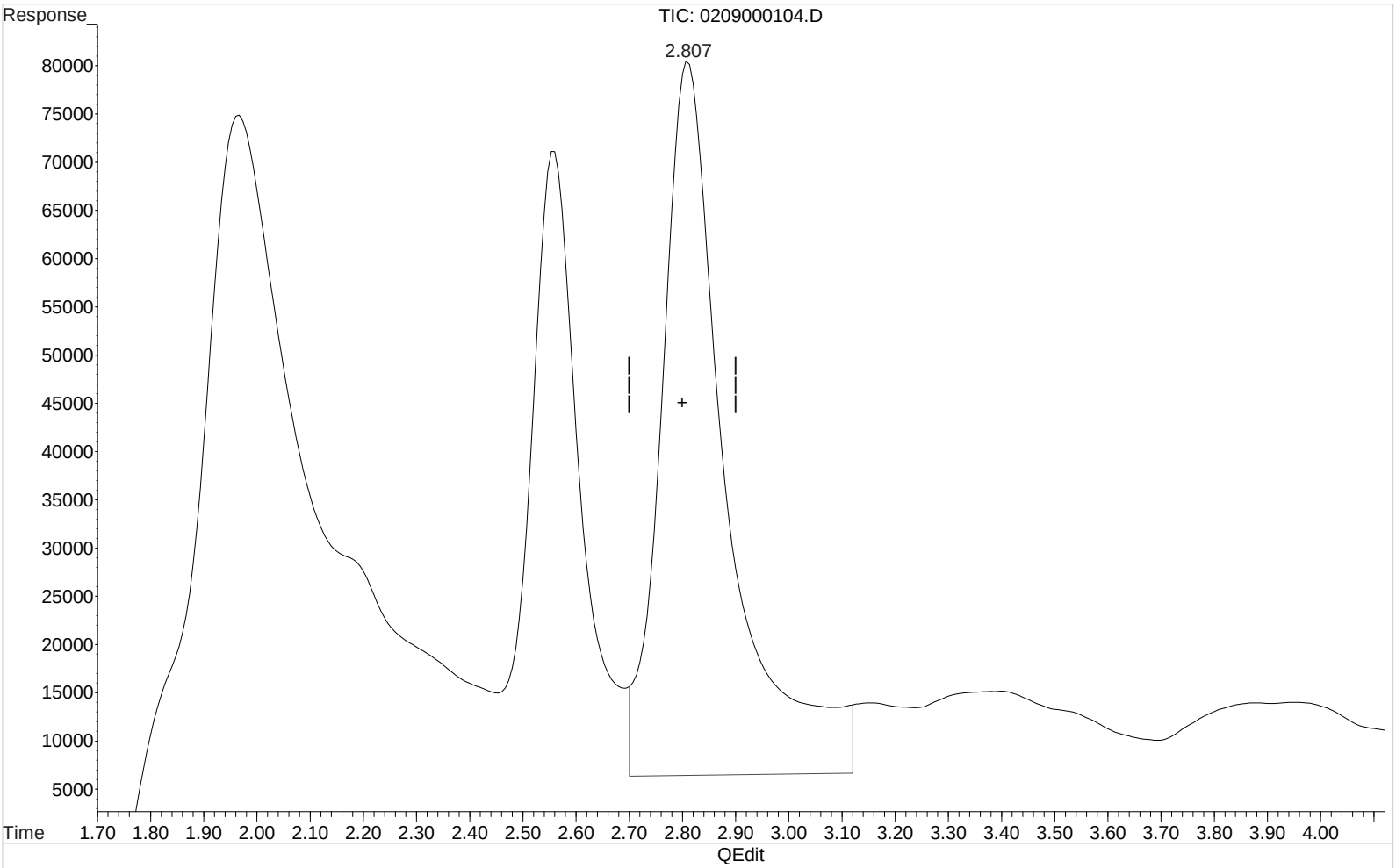
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.807min 34.755 ug/L

response 630962

Manual Integration:

Before

02/13/17

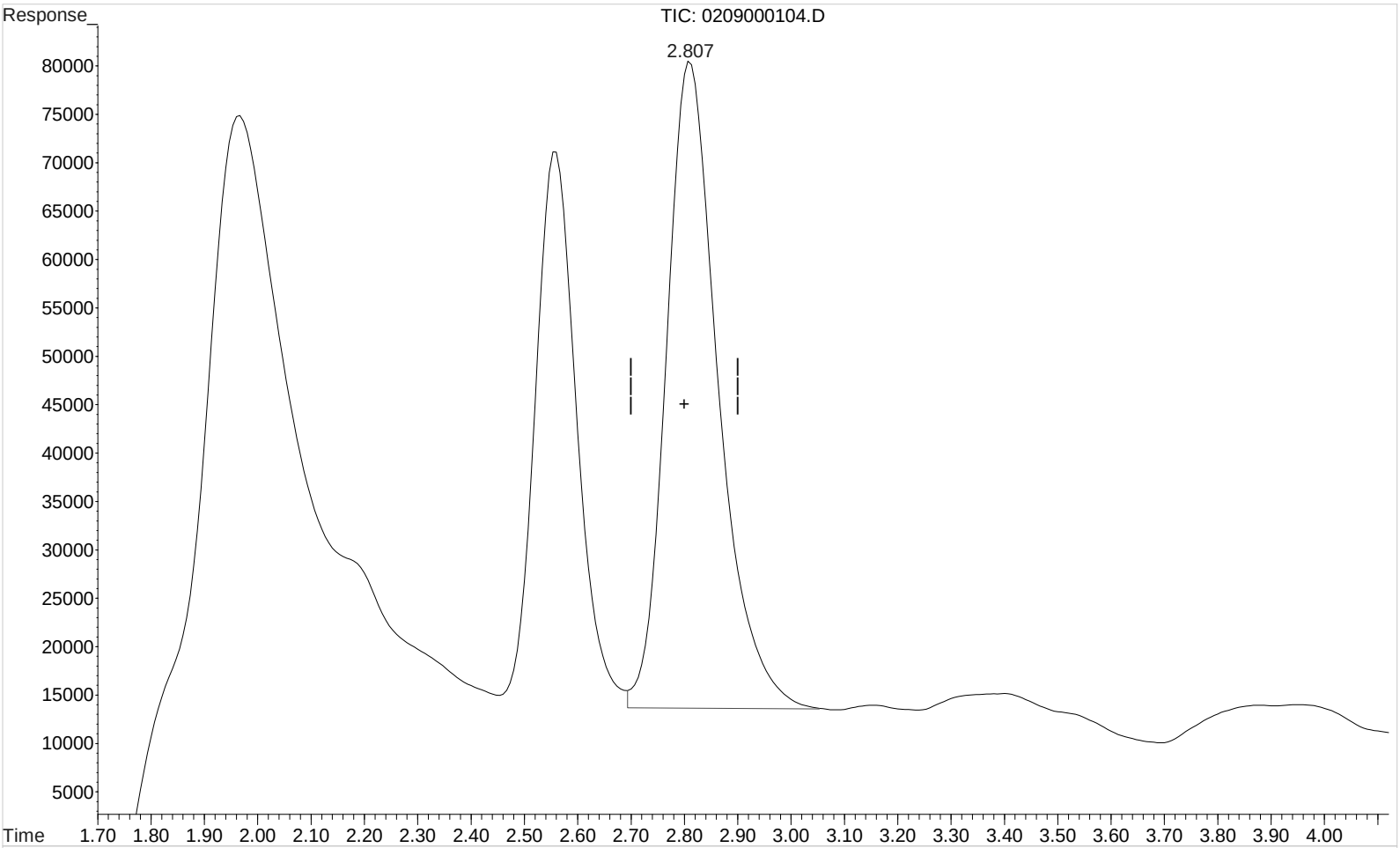
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.807min 24.916 ug/L m

response 452332

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

(b) (6)

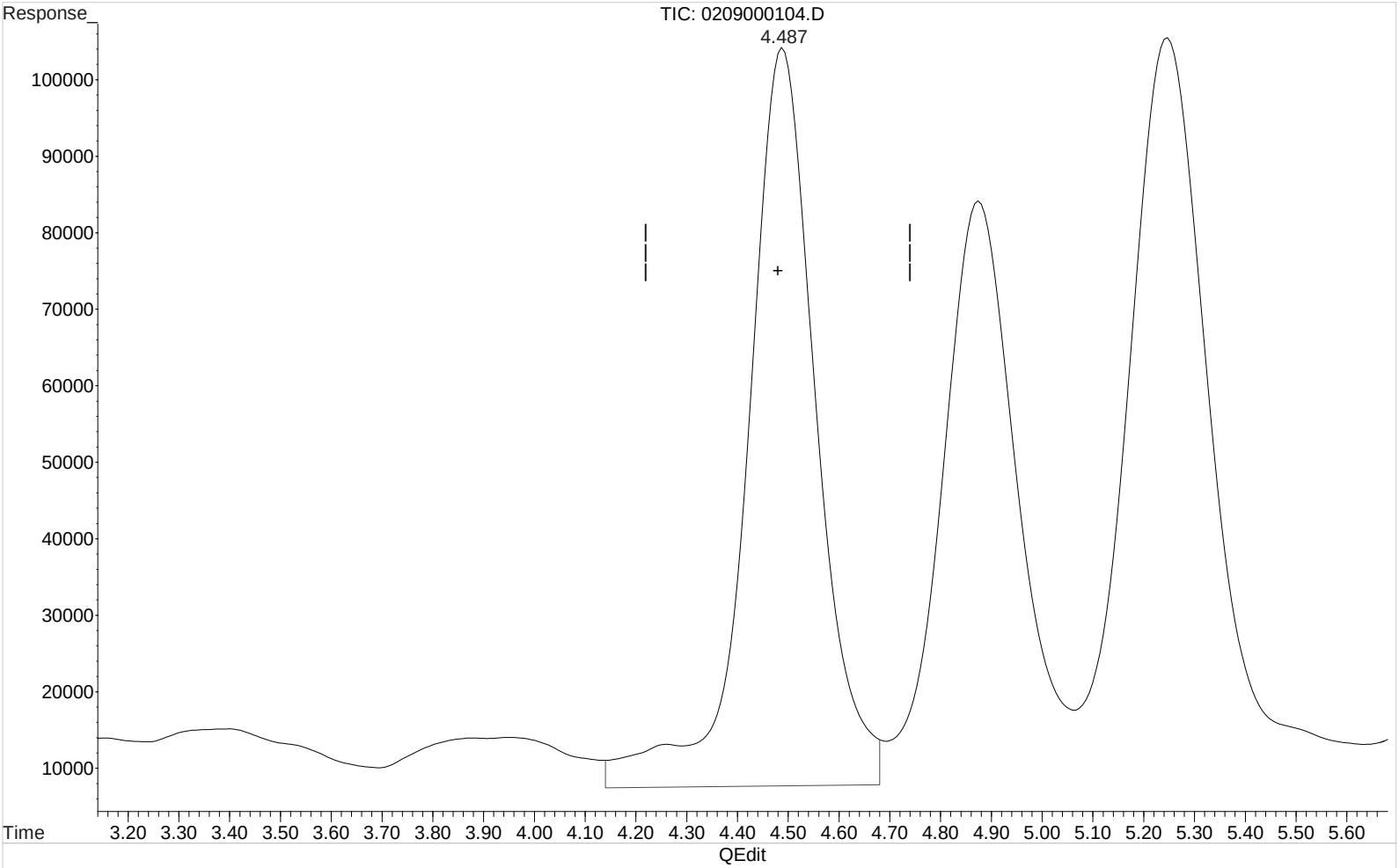
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 24.547 ug/L

response 913278

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

(b) (6)

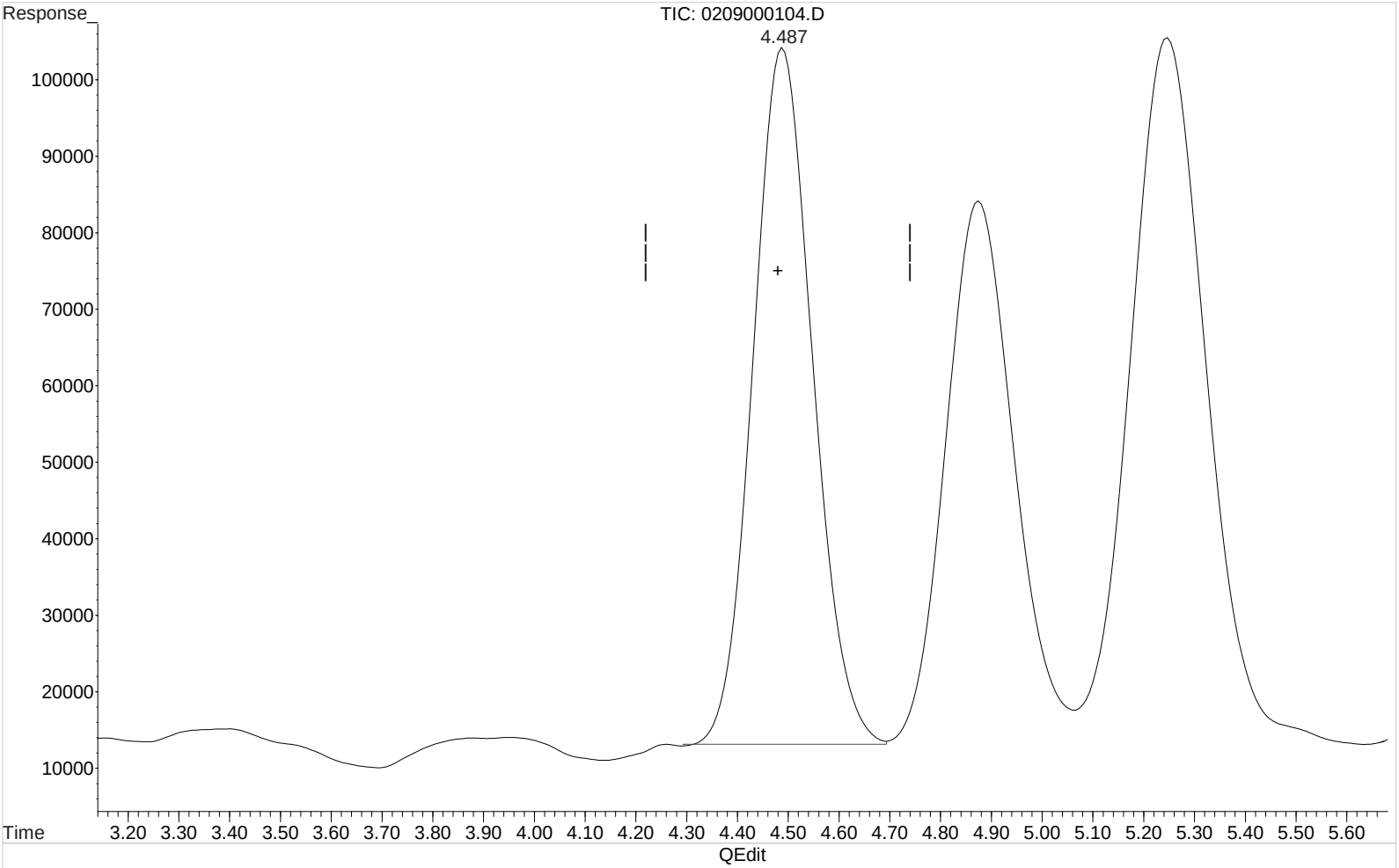
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(3) Nitrobenzene (T)

4.487min 19.991 ug/L m

response 743763

Manual Integration:

After

BLC

02/13/17

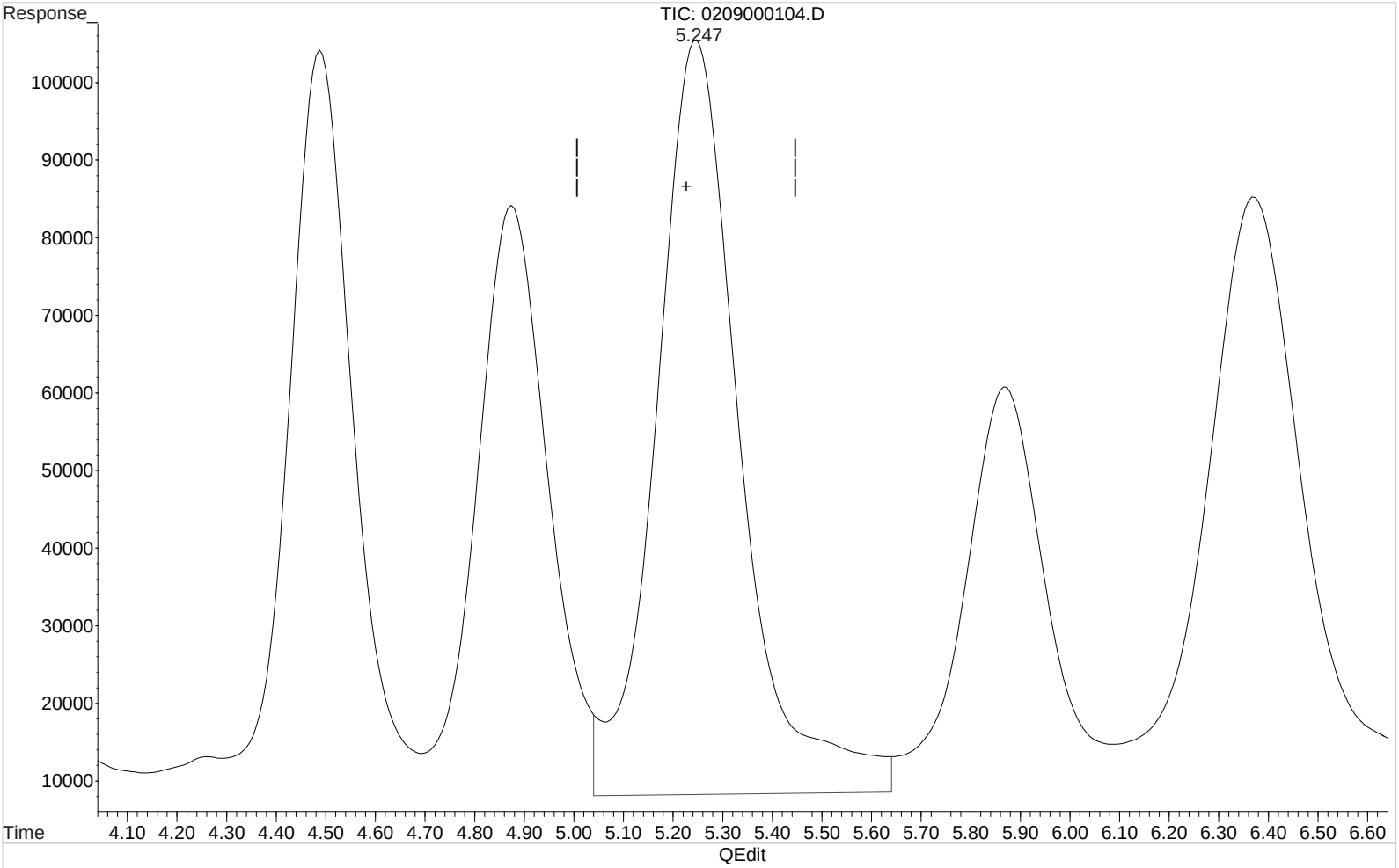
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(4) 3,5-Dinitroaniline (T)

5.247min 24.596 ug/L

response 1138541

Manual Integration:

Before

02/13/17

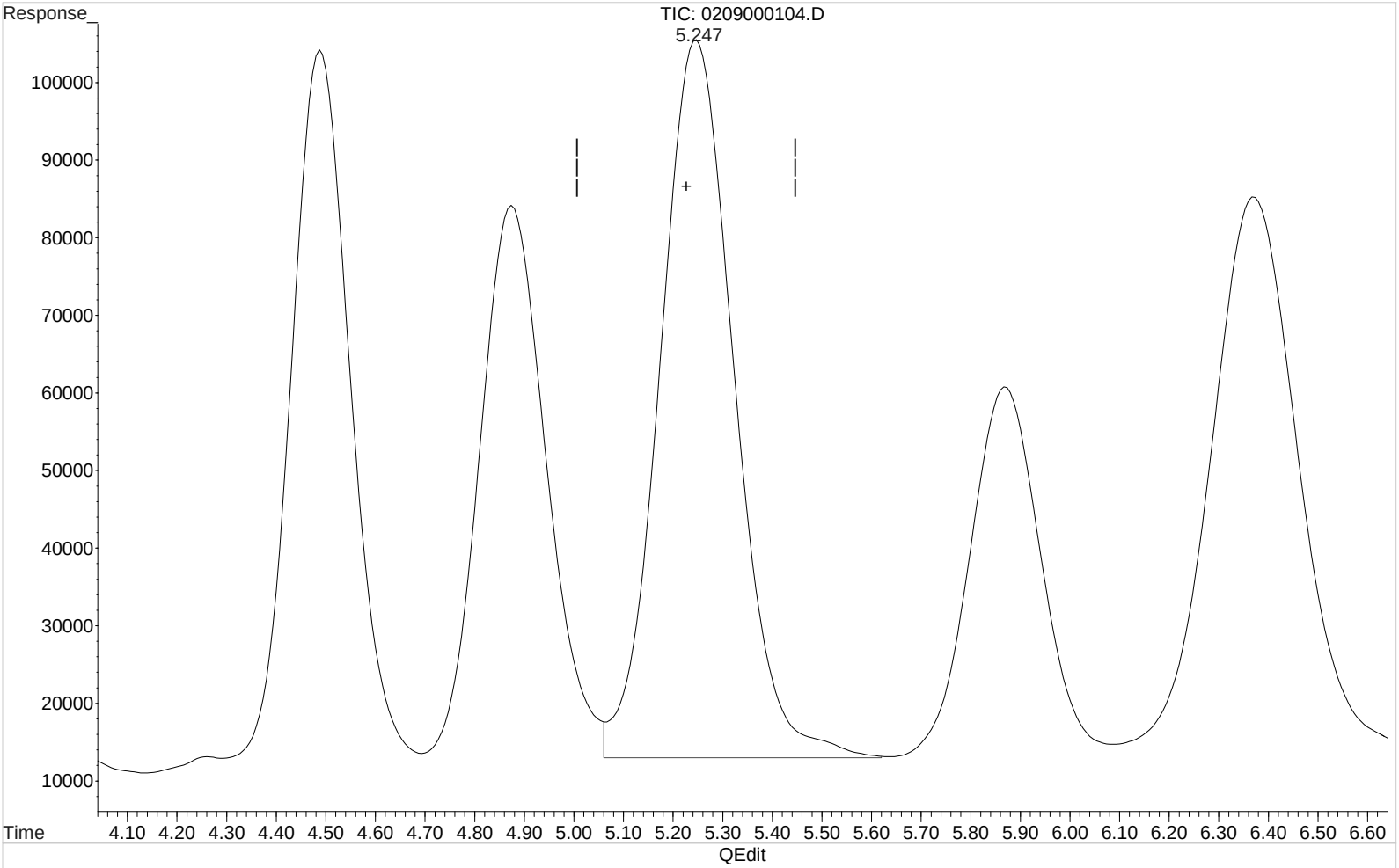
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(4) 3,5-Dinitroaniline (T)

5.247min 20.844 ug/L m

response 964857

Manual Integration:

After

BLC

02/13/17

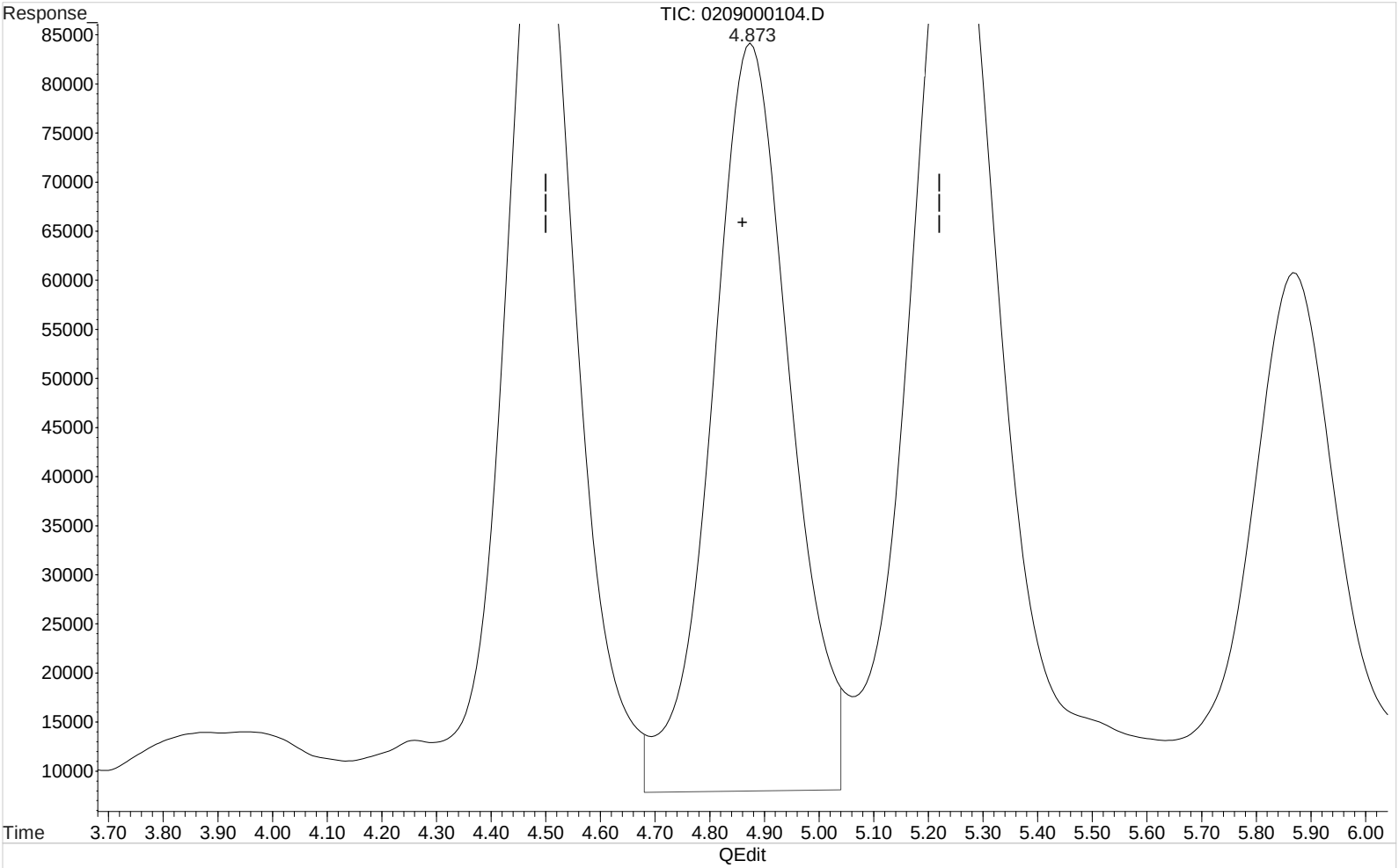
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(5) 4-Amino-2,6-DNT (T)

4.873min 24.112 ug/L

response 765953

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

(b) (6)

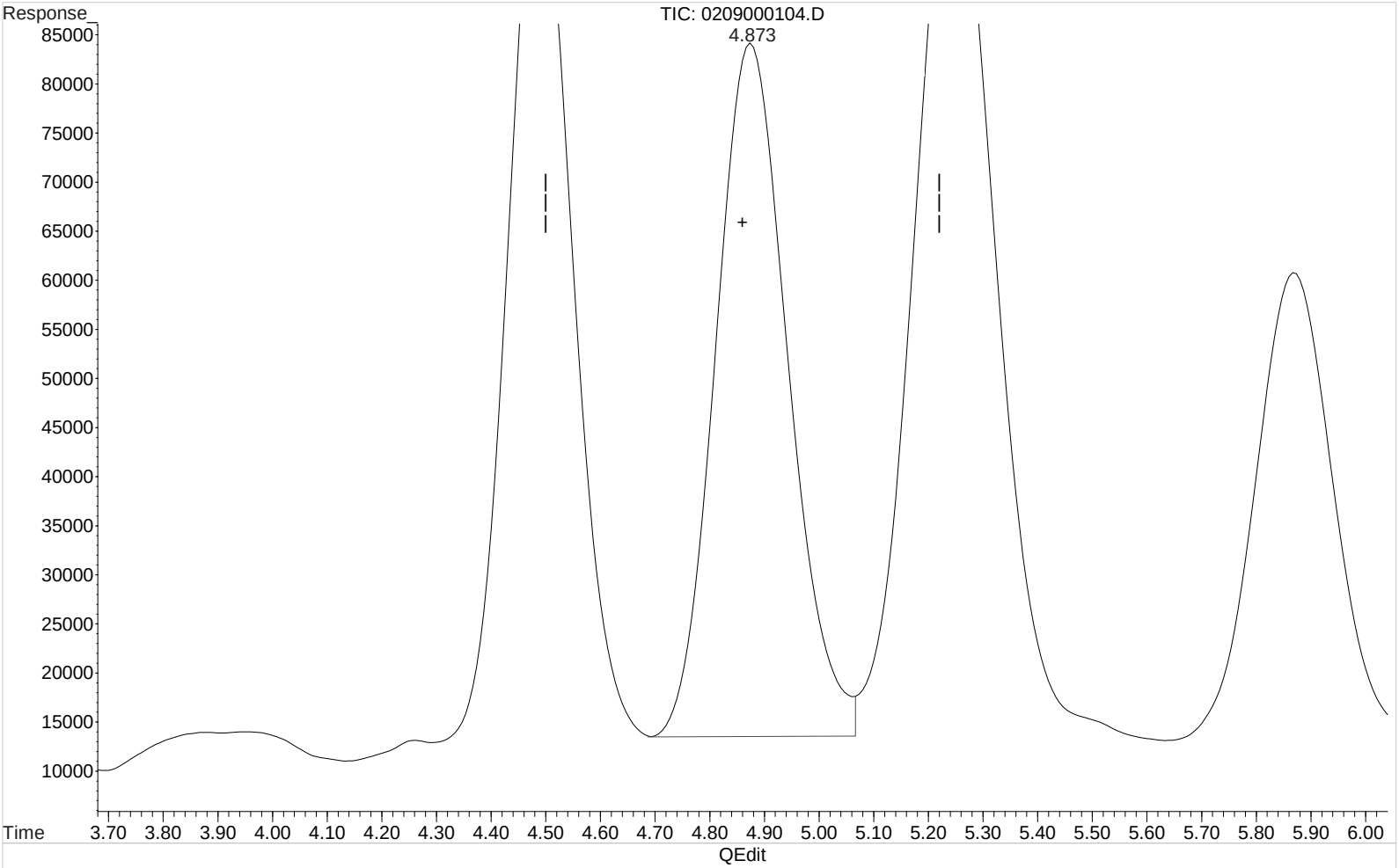
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(5) 4-Amino-2,6-DNT (T)

4.873min 20.547 ug/L m

response 652694

Manual Integration:

After

BLC

02/13/17

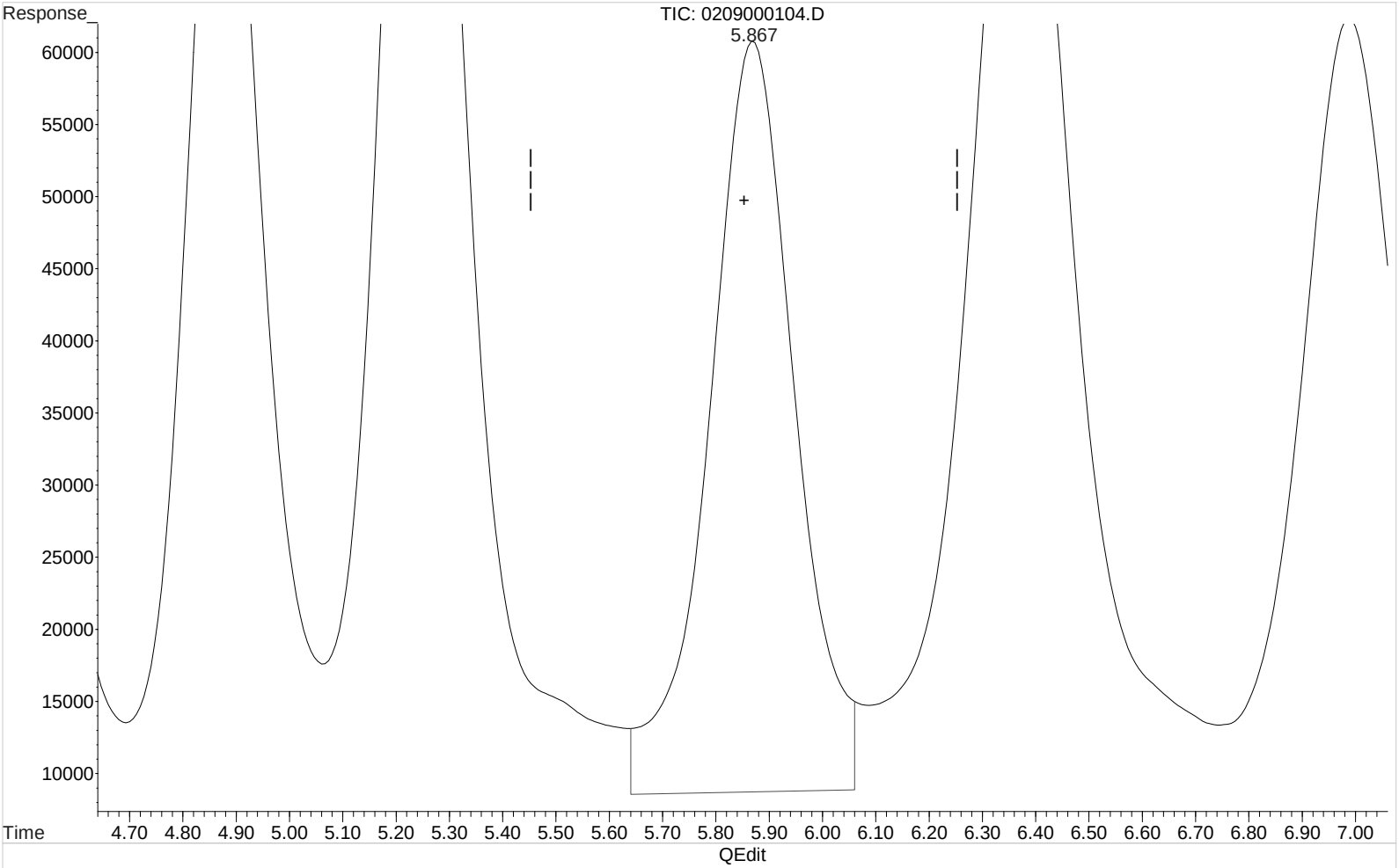
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.867min 24.679 ug/L

response 581023

Manual Integration:

Before

02/13/17

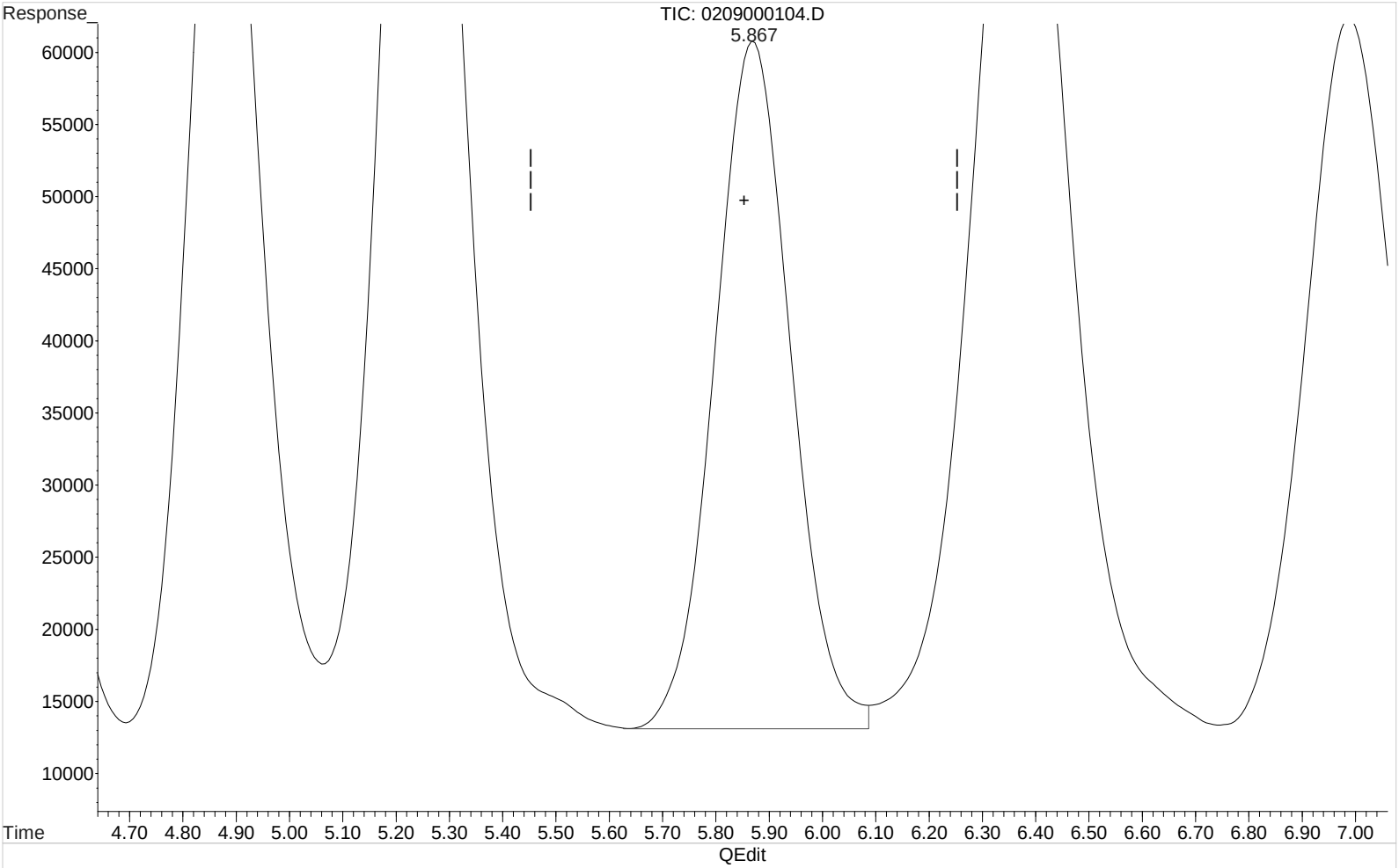
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.867min 20.100 ug/L m

response 473214

Manual Integration:

After

BLC

02/13/17

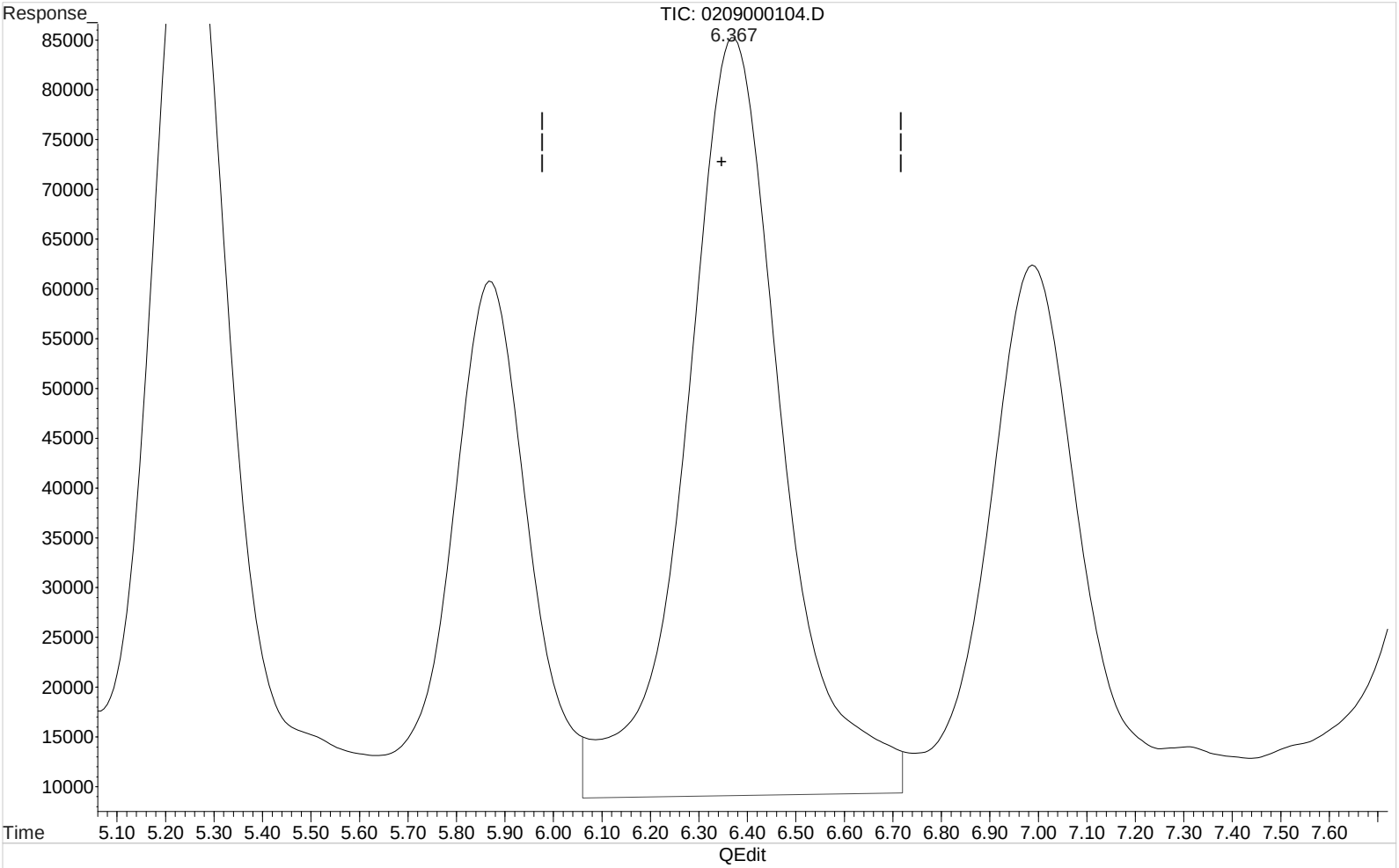
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.367min 25.225 ug/L

response 1057778

Manual Integration:

Before

02/13/17

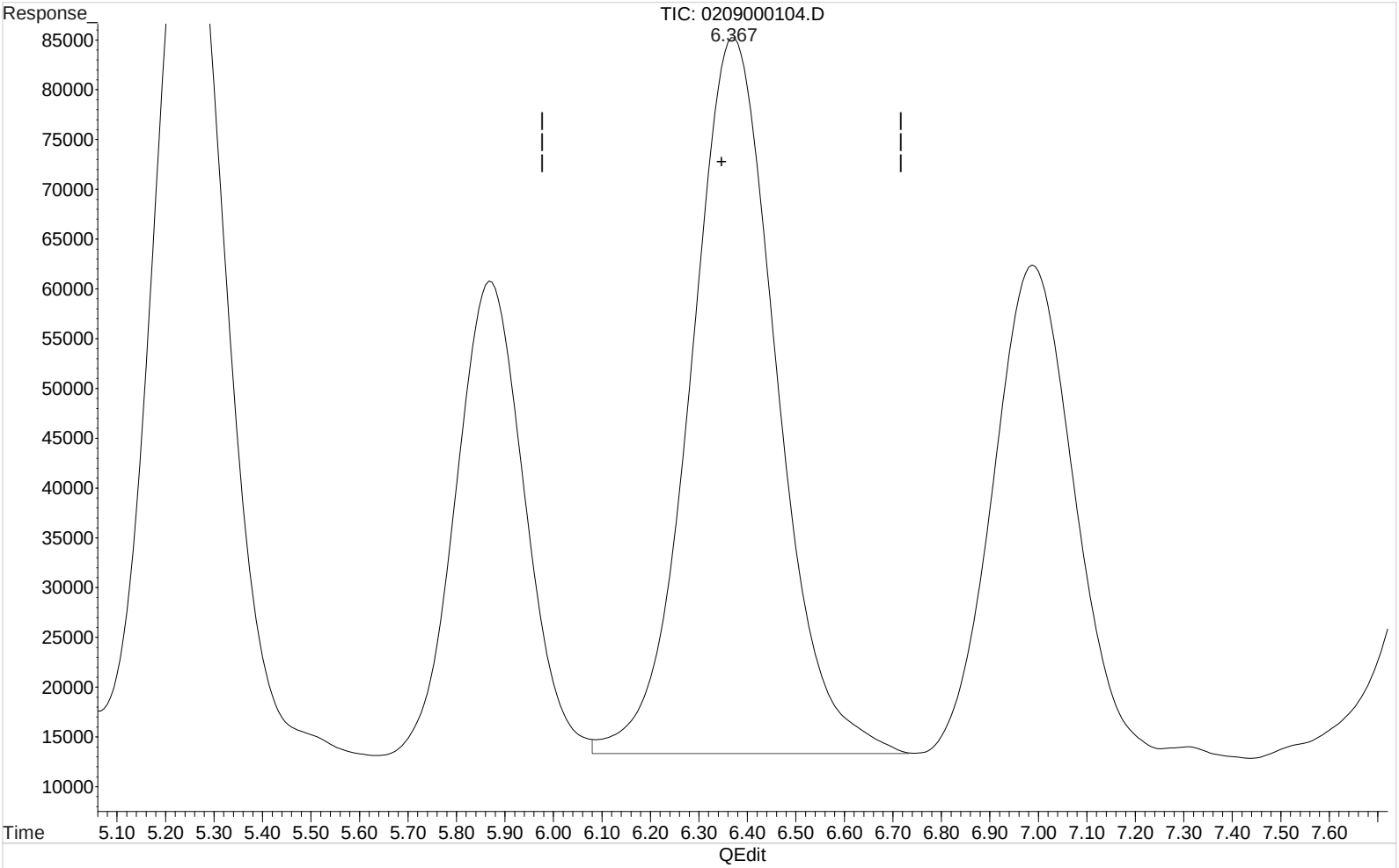
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(7) 2-Amino-4,6-DNT (T)

6.367min 21.218 ug/L m

response 889746

Manual Integration:

After

BLC

02/13/17

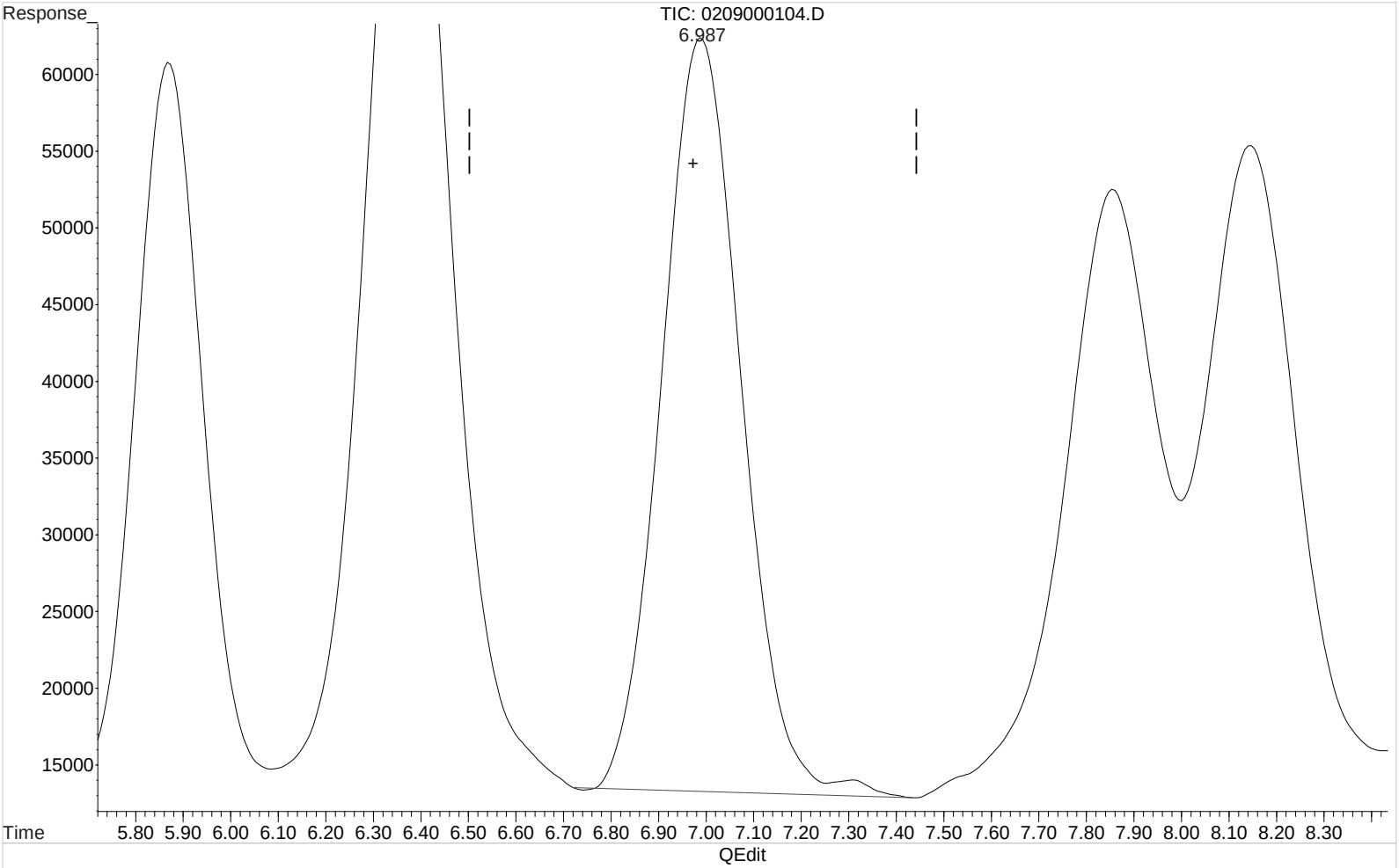
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(8) 3-NT (T)

6.987min 20.561 ug/L

response 573667

Manual Integration:

Before

02/13/17

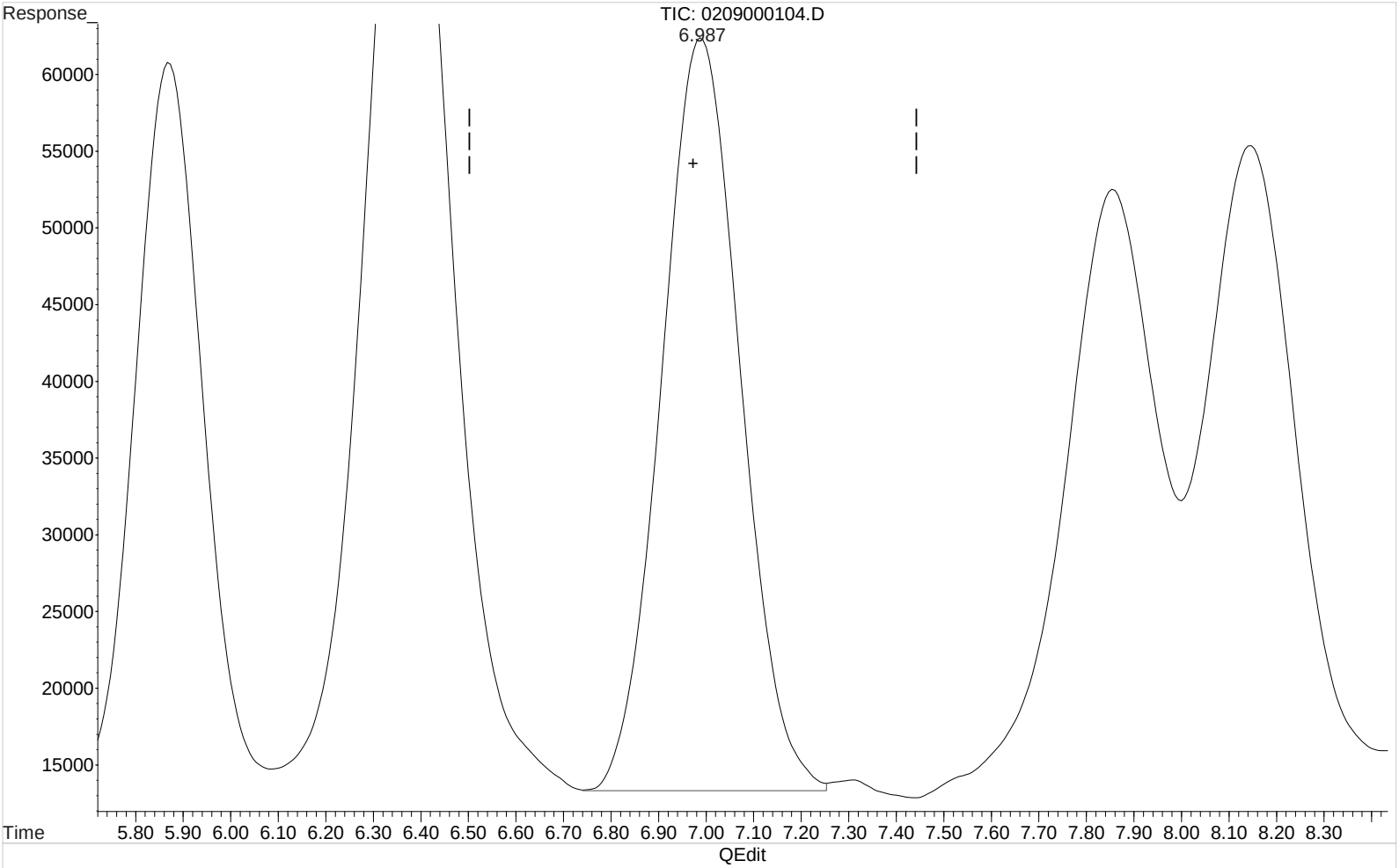
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(8) 3-NT (T)

6.987min 20.307 ug/L m

response 566568

Manual Integration:

After

BLC

02/13/17

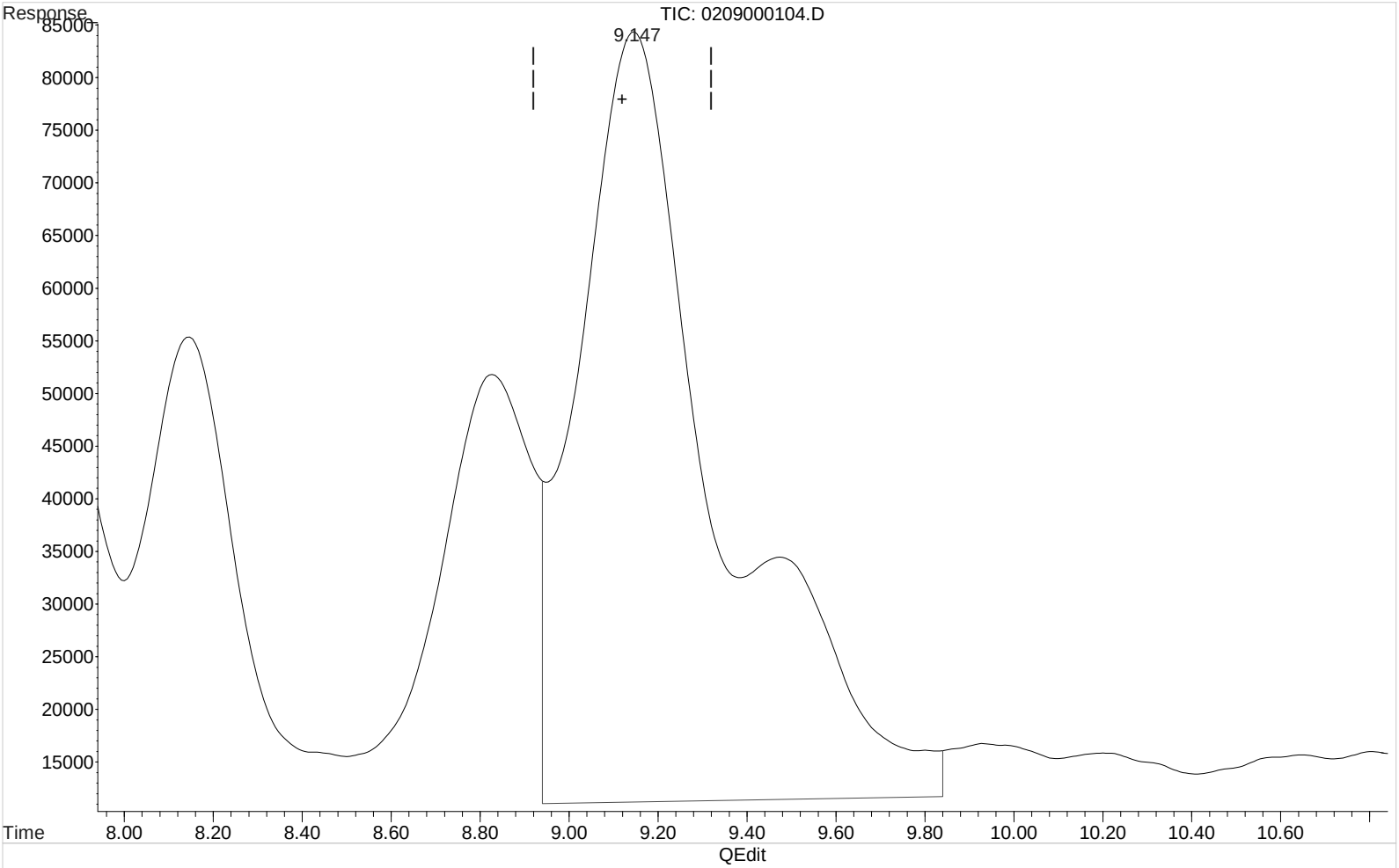
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(9) 1,3-DNB (T)

9.147min 28.638 ug/L

response 1600738

Manual Integration:

Before

02/13/17

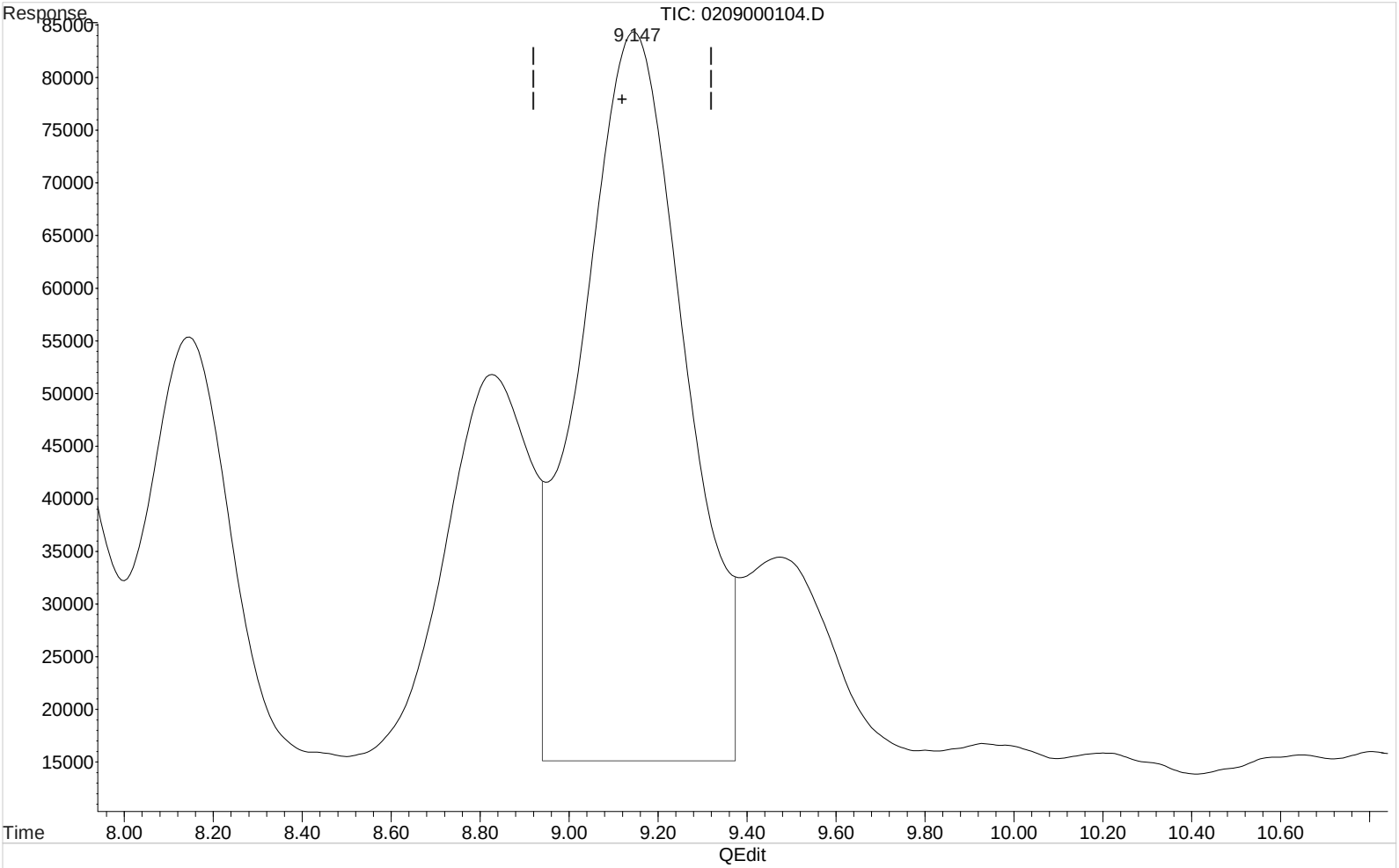
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(9) 1,3-DNB (T)

9.147min 20.188 ug/L m

response 1128441

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:12:28 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
11)	S	1-Chloro-3-Nitrobenzene	8.147	1336894	50.757	ug/L	
		Target Compounds					
1)	T	HMX	2.560	778040	49.560	ug/L	m
2)	T	RDX	2.807	976620	54.310	ug/L	m
3)	T	Nitrobenzene	4.493	1930068	52.121	ug/L	m
4)	T	3,5-Dinitroaniline	5.253	2326297	50.288	ug/L	m
5)	T	4-Amino-2,6-DNT	4.880	1640782	51.865	ug/L	m
6)	T	2-NT	5.873	1175129	49.902	ug/L	m
7)	T	2-Amino-4,6-DNT	6.373	2151466	51.475	ug/L	
8)	T	3-NT	6.993	1417335	50.902	ug/L	
9)	T	1,3-DNB	9.147	2937294	52.887	ug/L	
10)	T	4-NT	7.853	1198086	52.690	ug/L	m
12)	T	2,6-DNT	8.833	1216672	49.709	ug/L	
13)	T	2,4-DNT	14.827	2785081	54.635	ug/L	
14)	T	Tetryl	13.013	1450932	49.712	ug/L	m
15)	T	1,3,5-TNB	19.827	2198383	53.482	ug/L	m
16)	T	2,4,6-TNT	20.813	1897768	49.120	ug/L	m

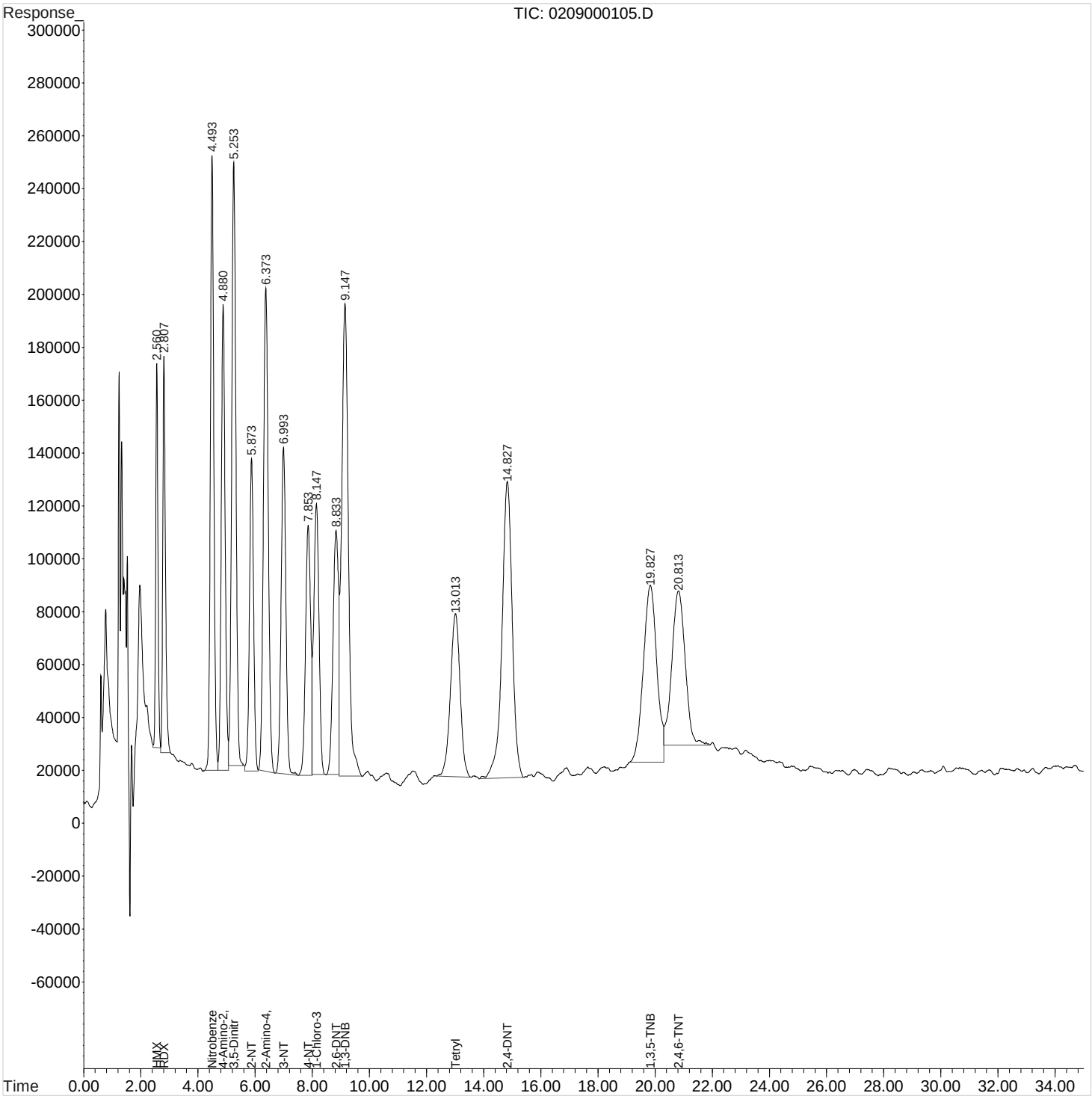
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:12:28 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

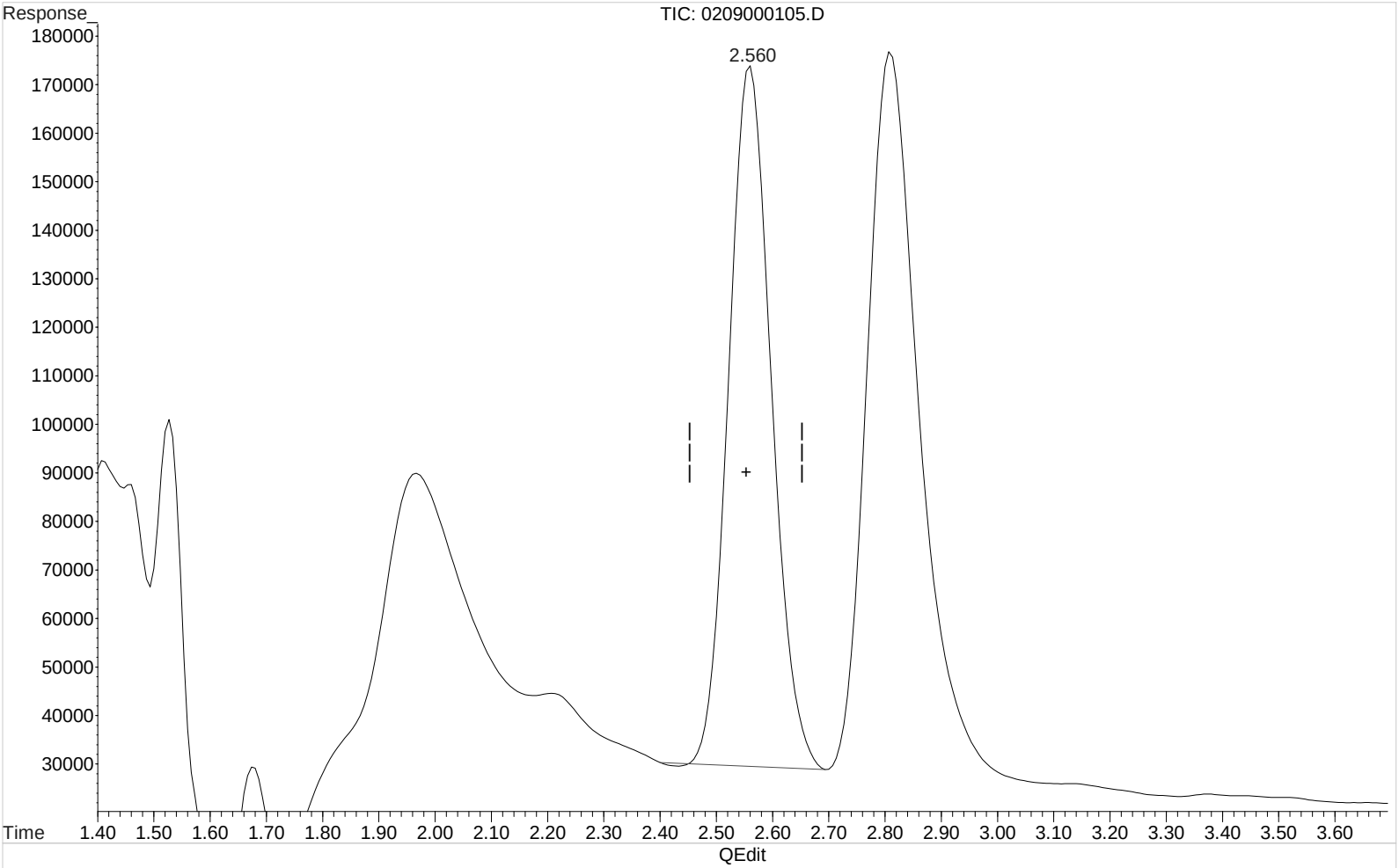


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.560min 48.616 ug/L

response 763221

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b) (6)

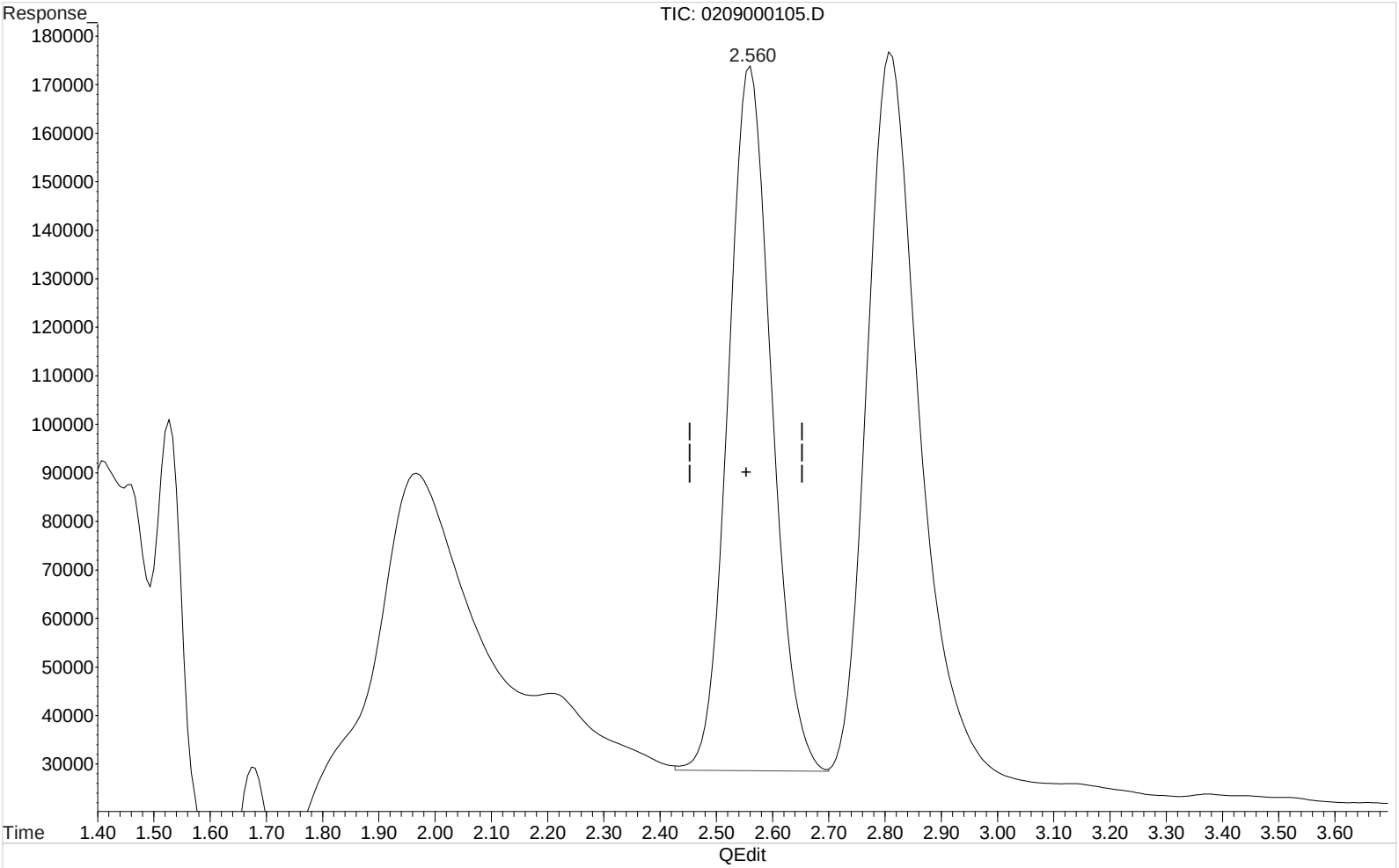
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.560min 49.560 ug/L m

response 778040

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

(b) (6)

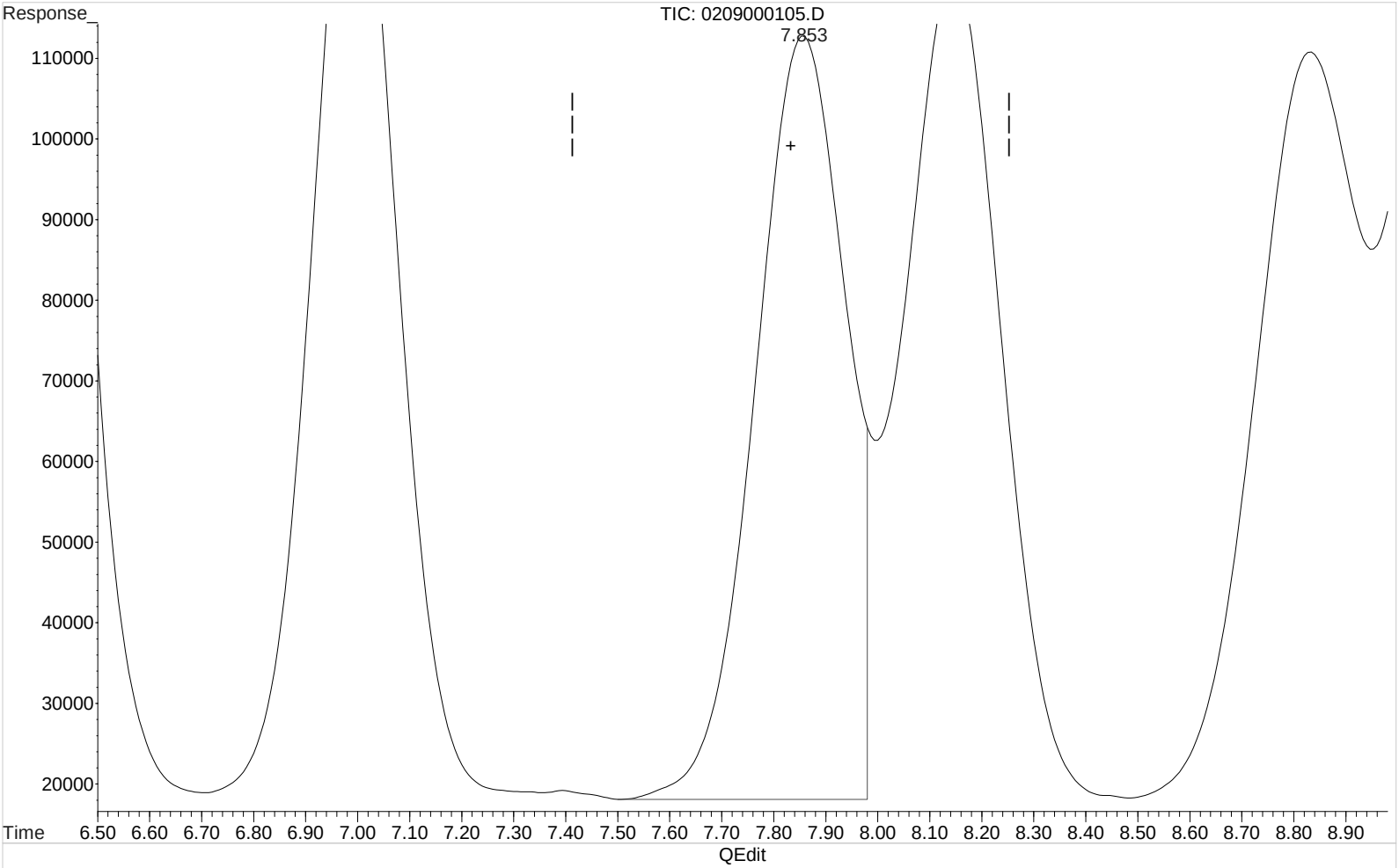
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.853min 50.394 ug/L

response 1145870

Manual Integration:

Before

02/13/17

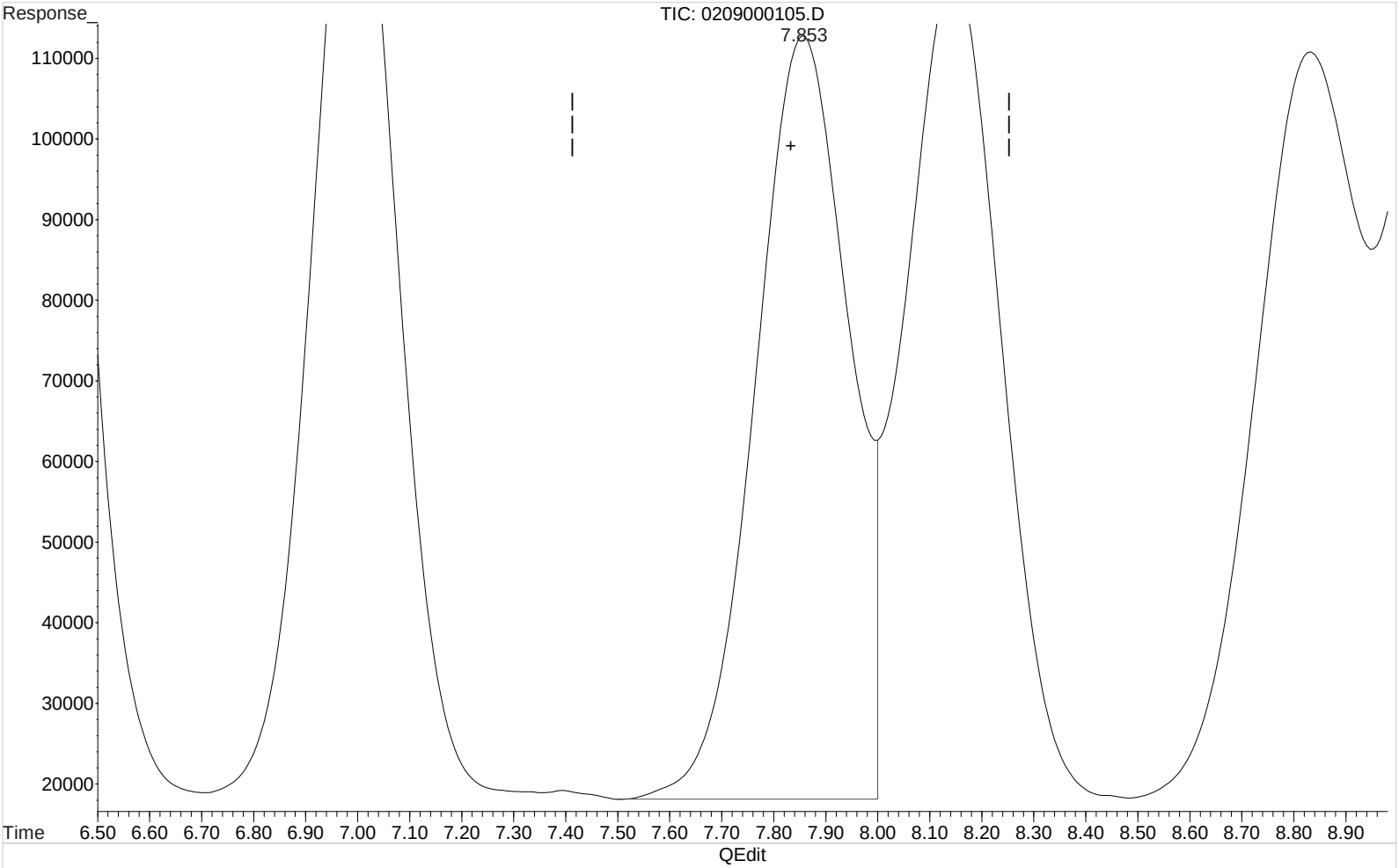
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.853min 52.690 ug/L m

response 1198086

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

(b) (6)

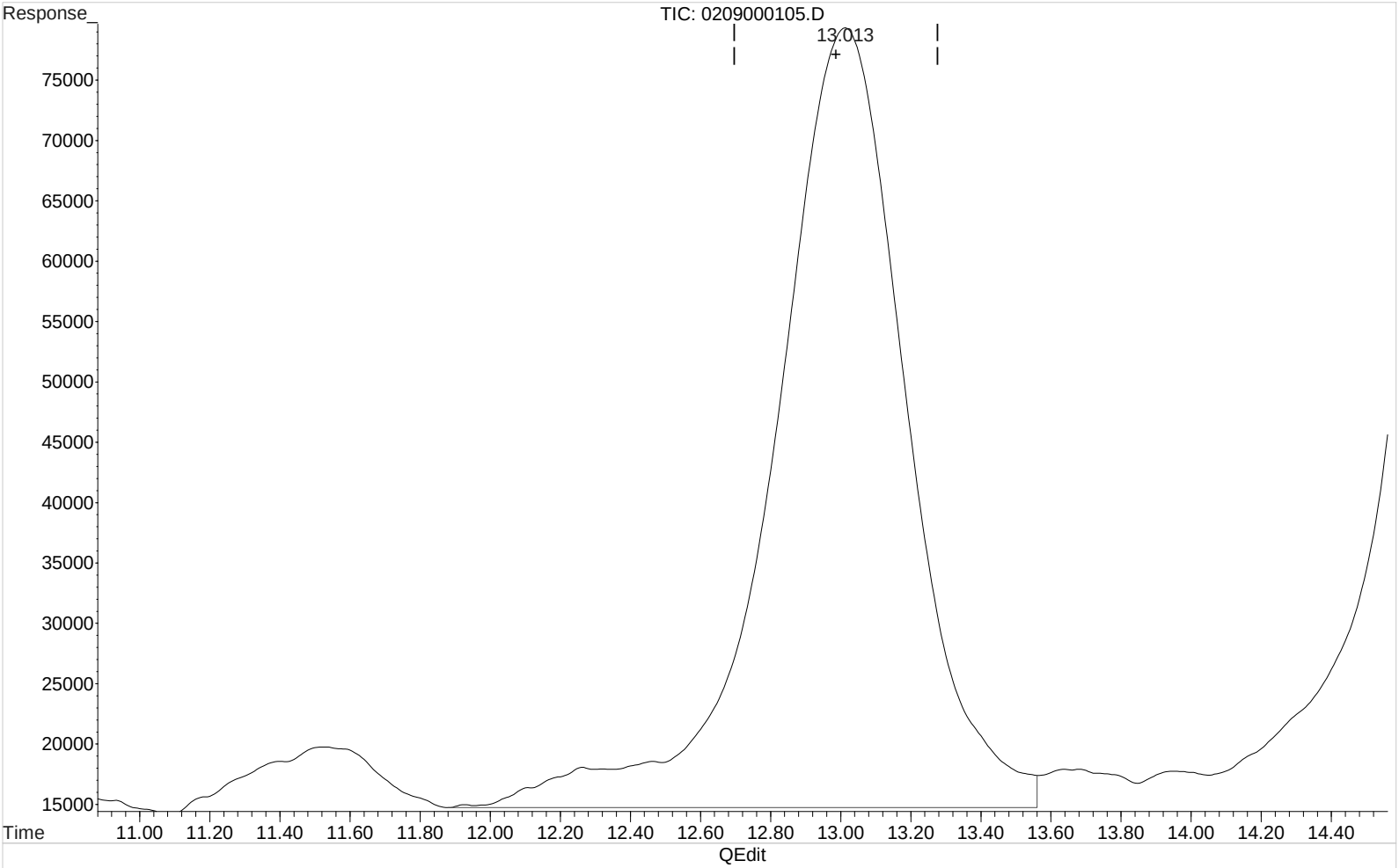
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(14) Tetryl (T)

13.013min 58.523 ug/L

response 1708087

Manual Integration:

Before

02/13/17

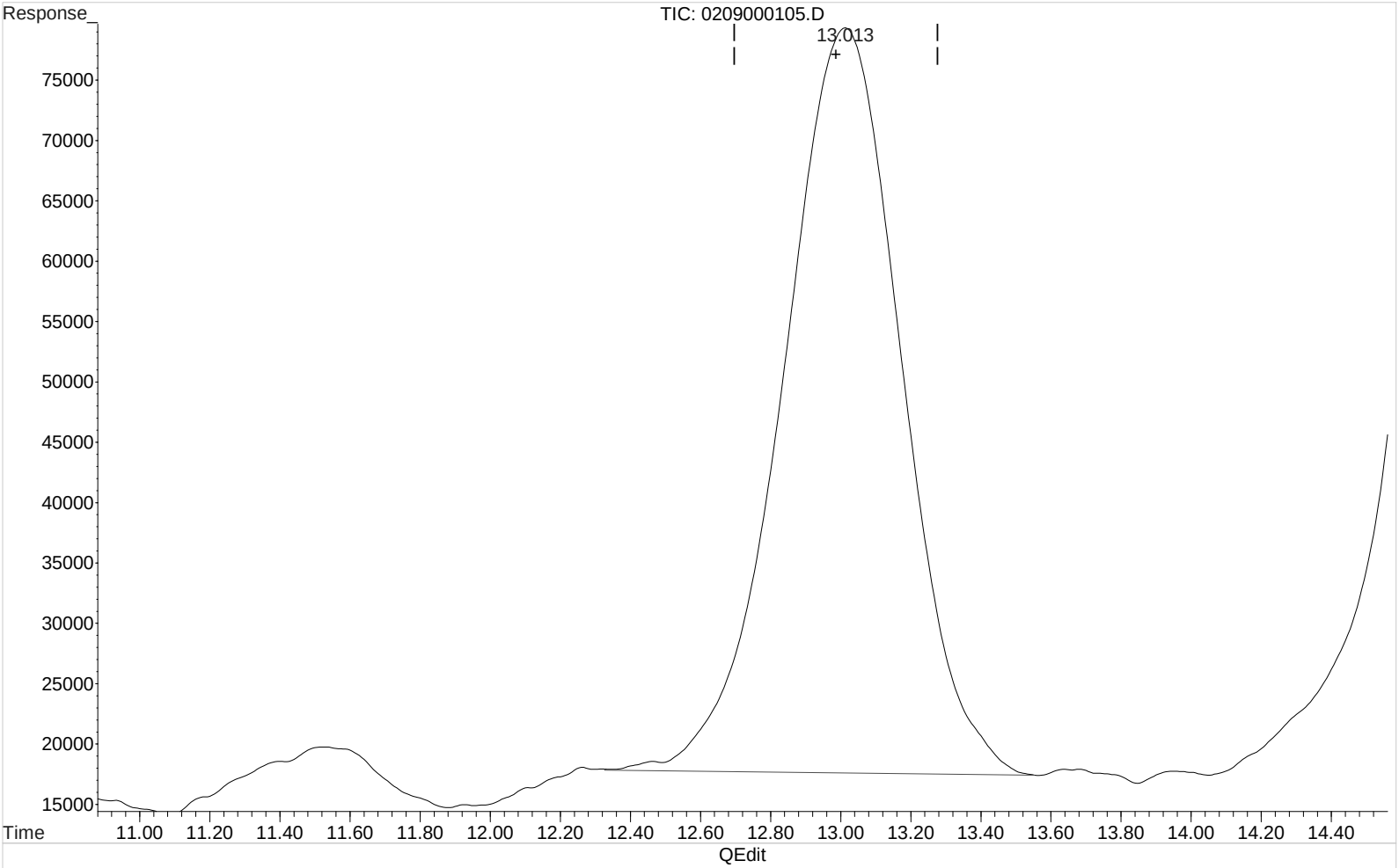
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(14) Tetryl (T)

13.013min 49.712 ug/L m

response 1450932

Manual Integration:

After

BLC

02/13/17

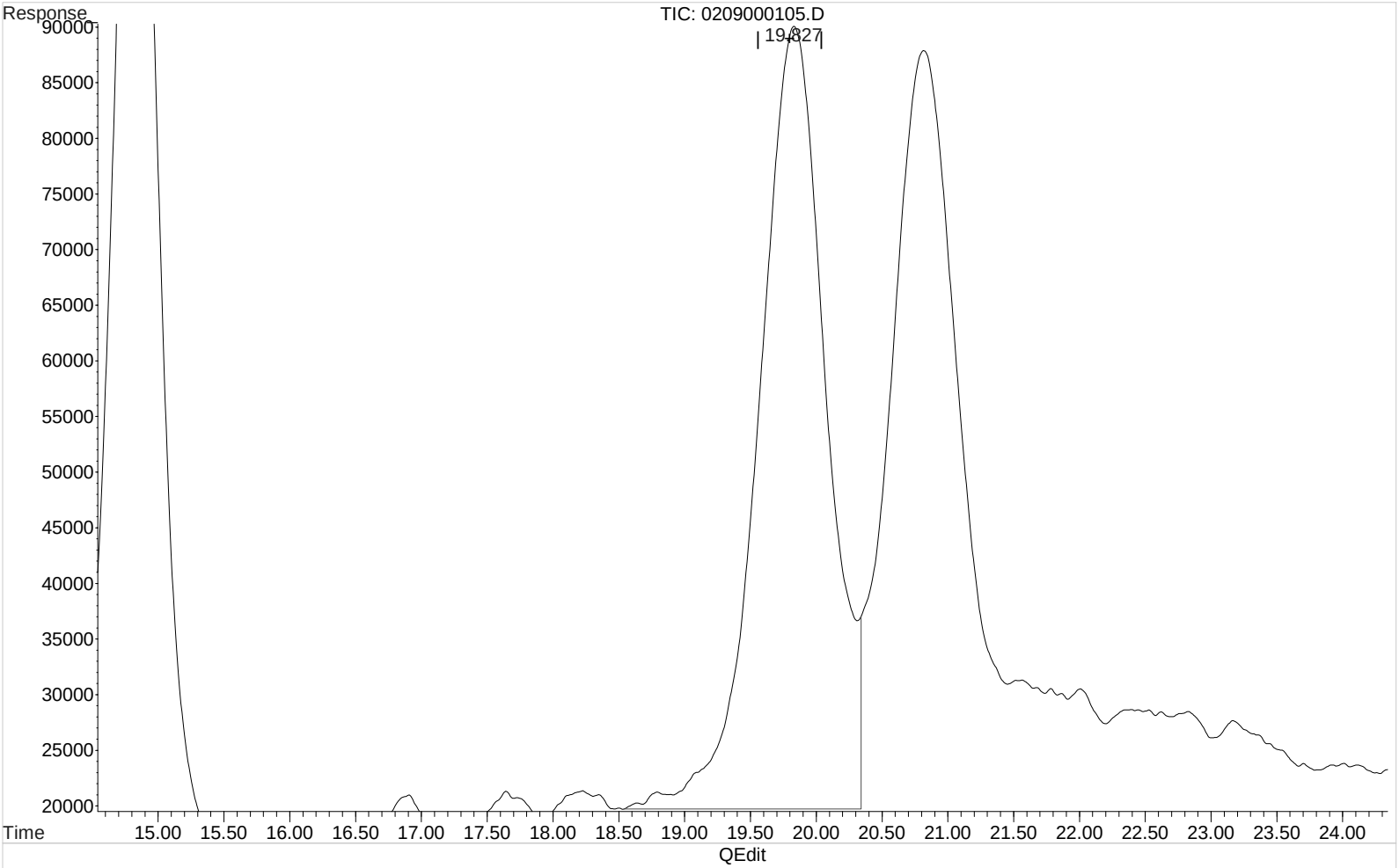
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(15) 1,3,5-TNB (T)

19.827min 61.425 ug/L

response 2524868

Manual Integration:

Before

02/13/17

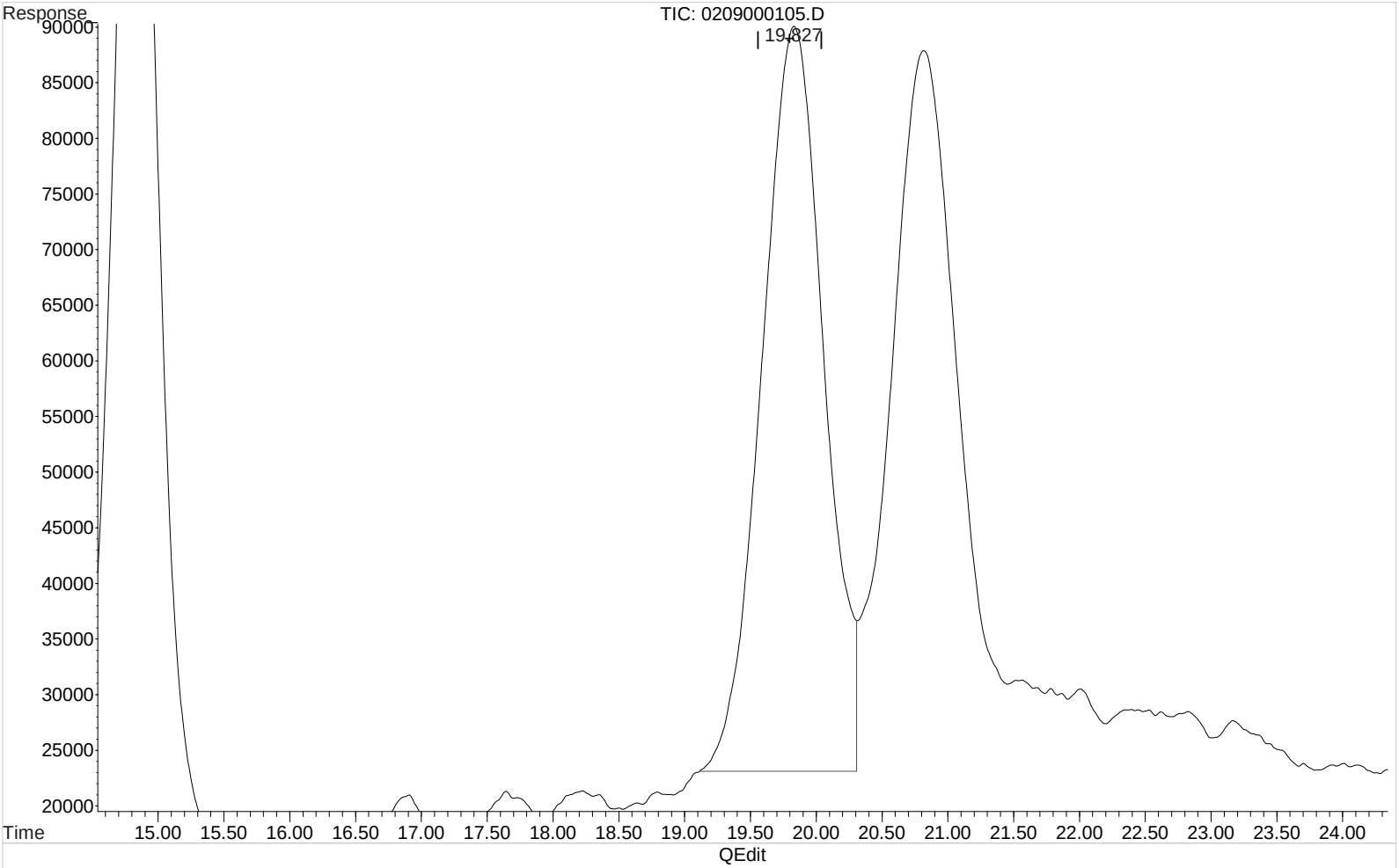
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(15) 1,3,5-TNB (T)

19.827min 53.482 ug/L m

response 2198383

Manual Integration:

After

BLC

02/13/17

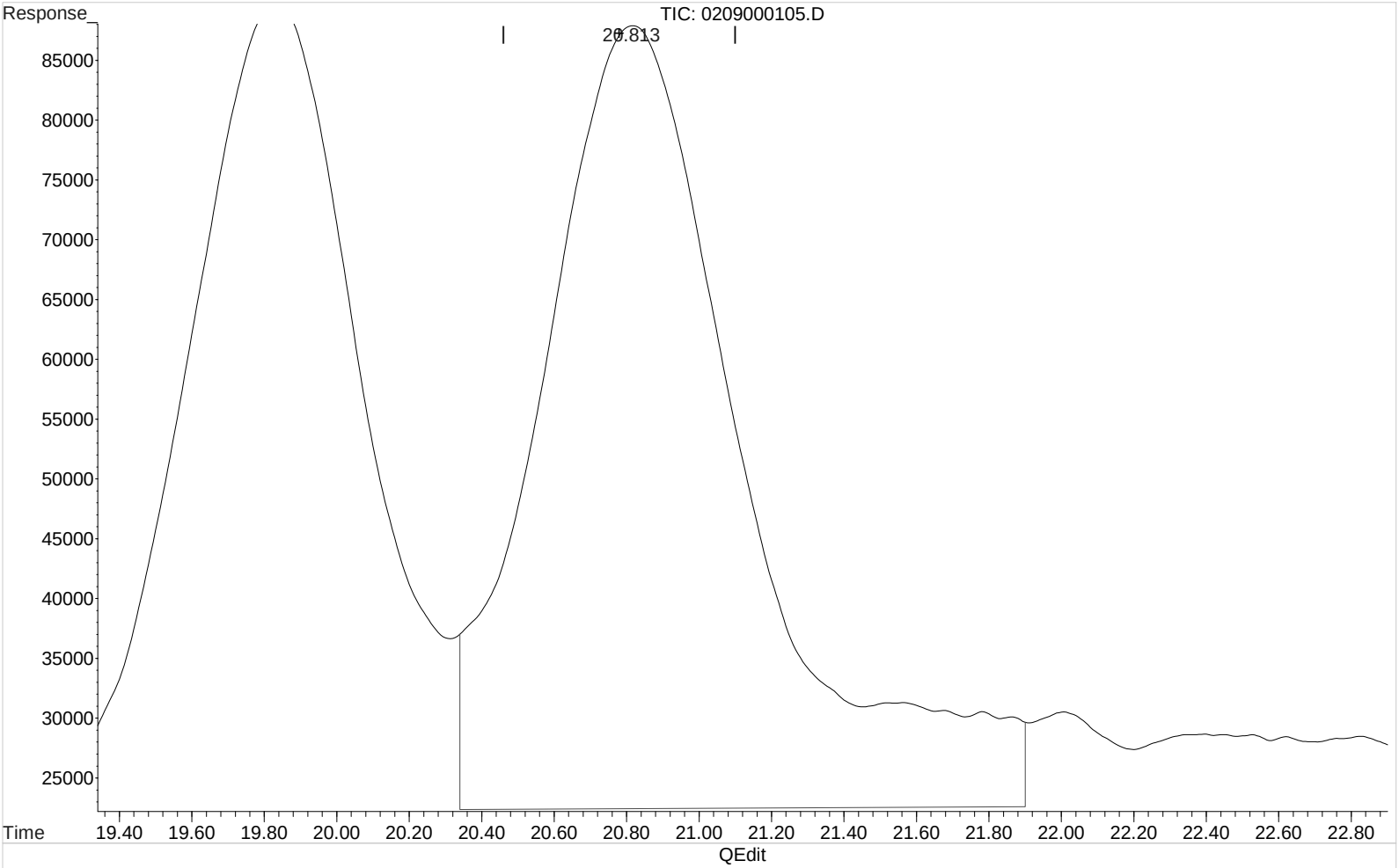
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(16) 2,4,6-TNT (T)

20.813min 65.772 ug/L

response 2541132

Manual Integration:

Before

02/13/17

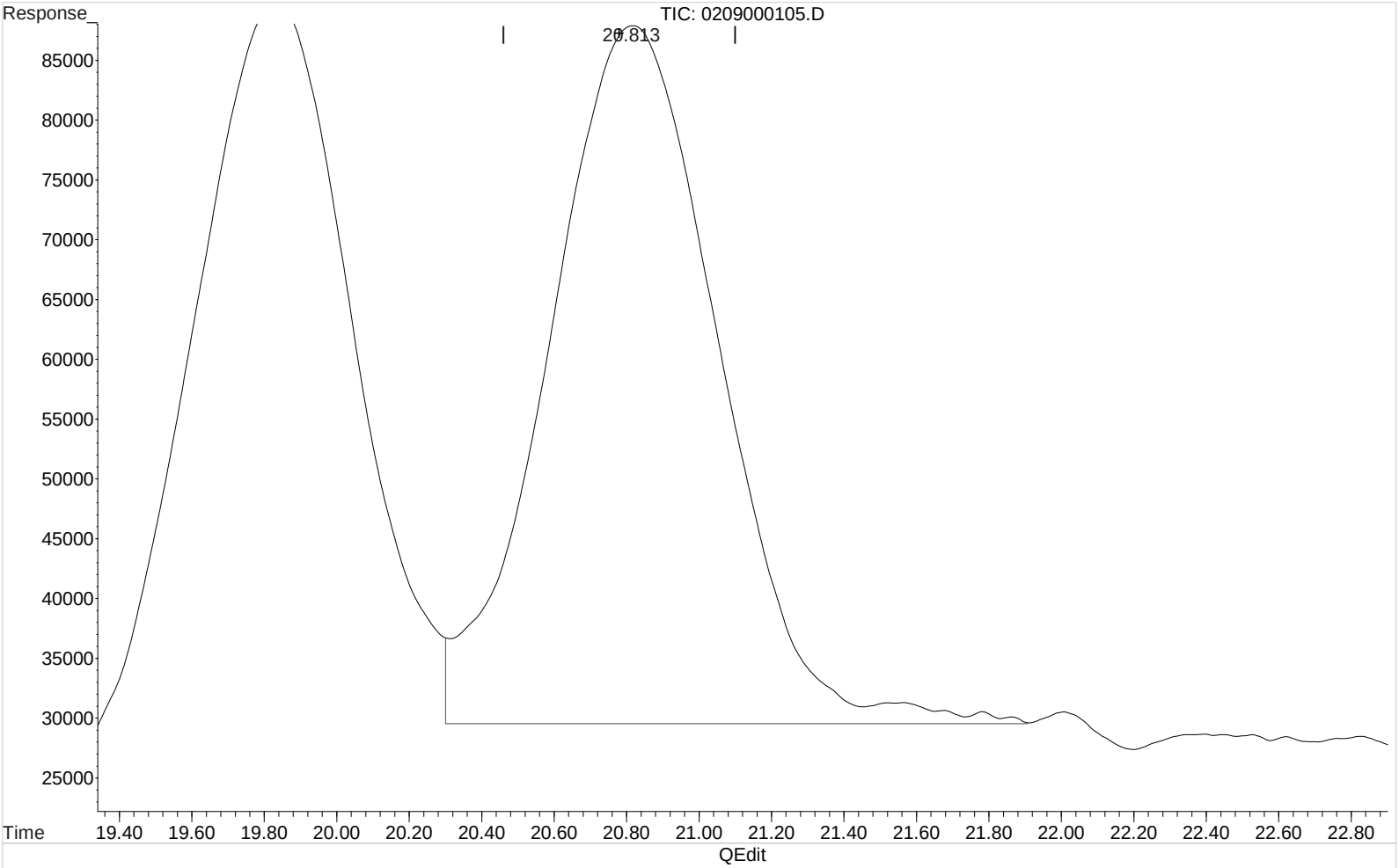
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(16) 2,4,6-TNT (T)

20.813min 49.120 ug/L m

response 1897768

Manual Integration:

After

BLC

02/13/17

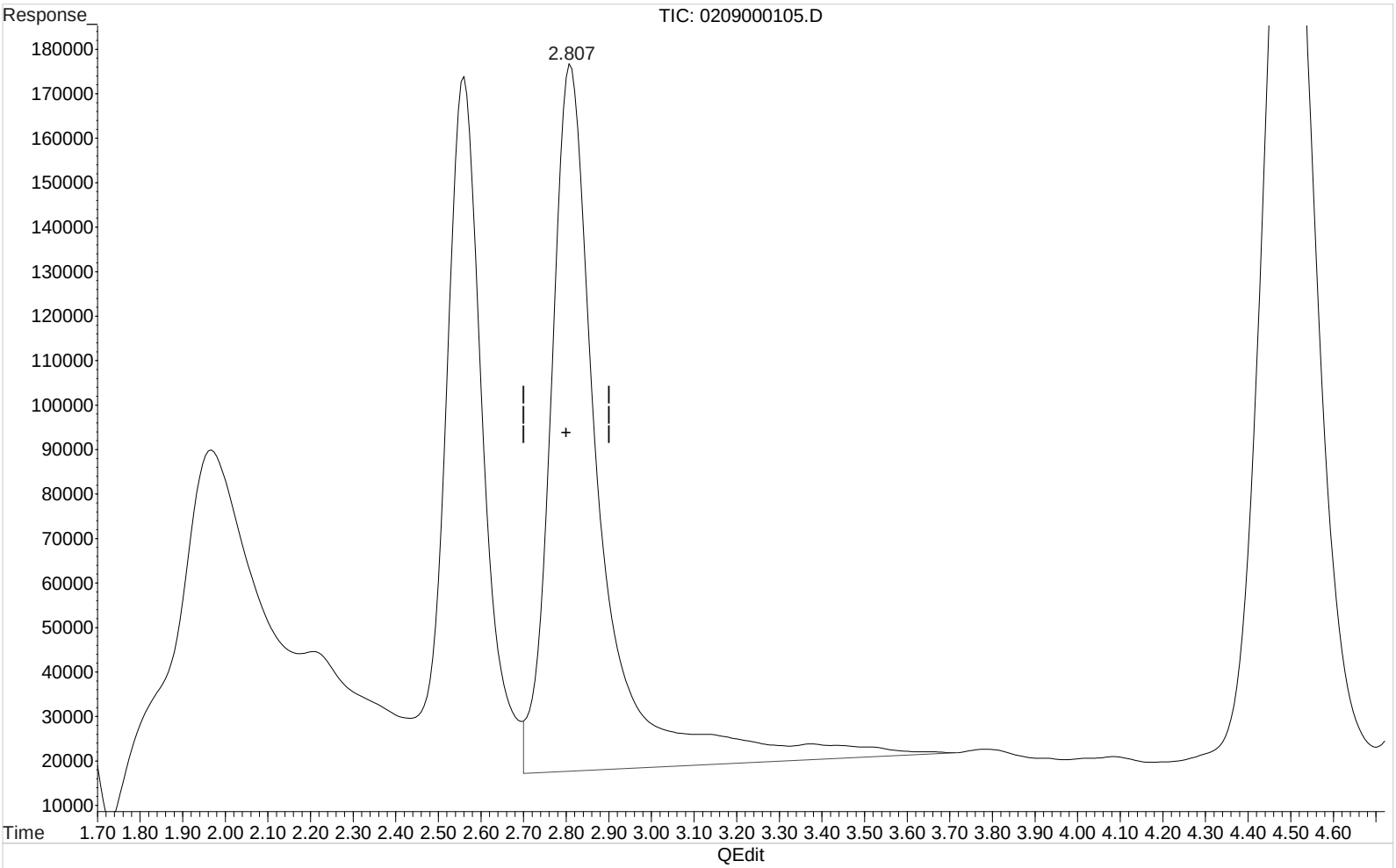
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.807min 71.943 ug/L

response 1293711

Manual Integration:

Before

02/13/17

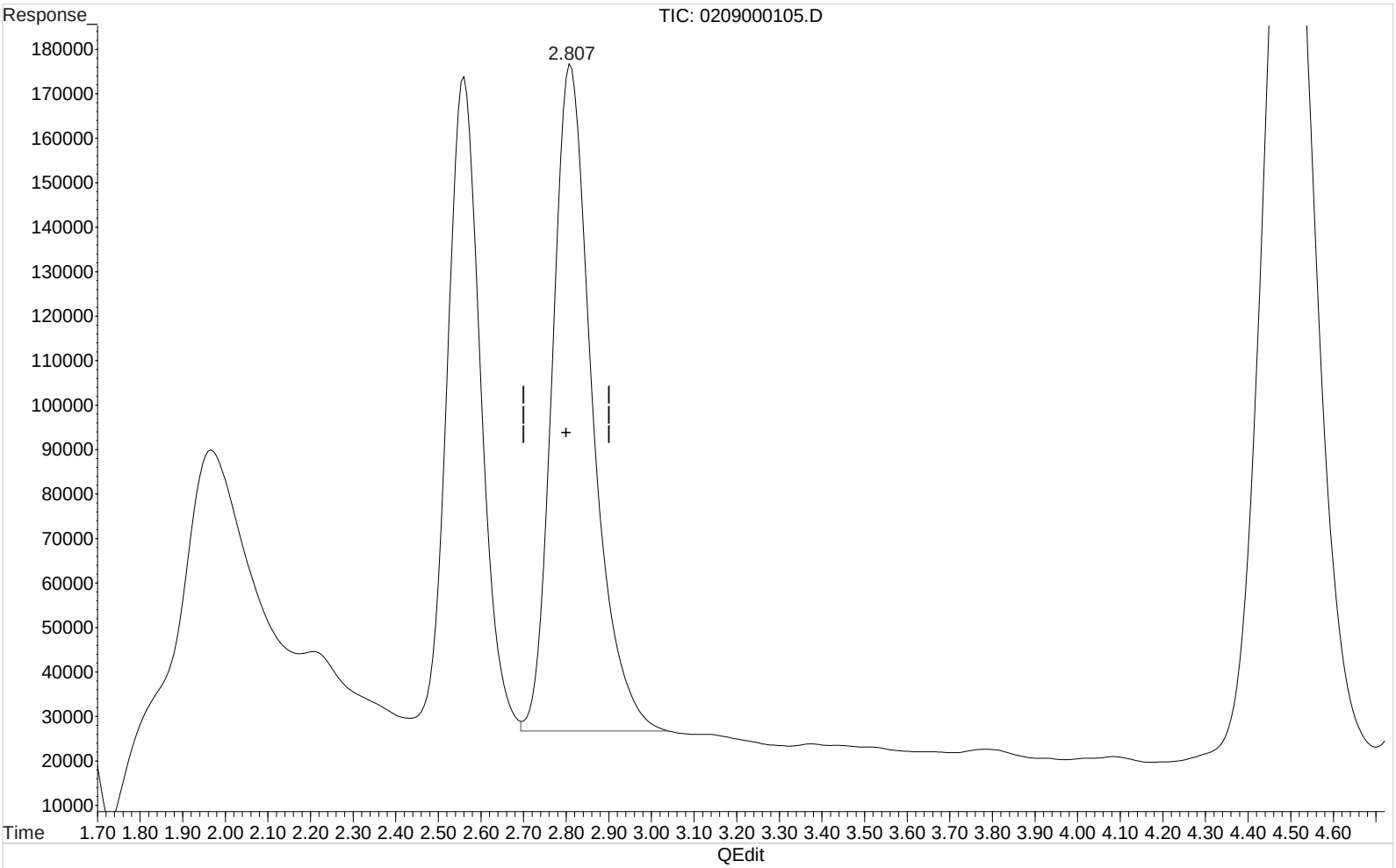
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.807min 54.310 ug/L m

response 976620

Manual Integration:

After

BLC

02/13/17

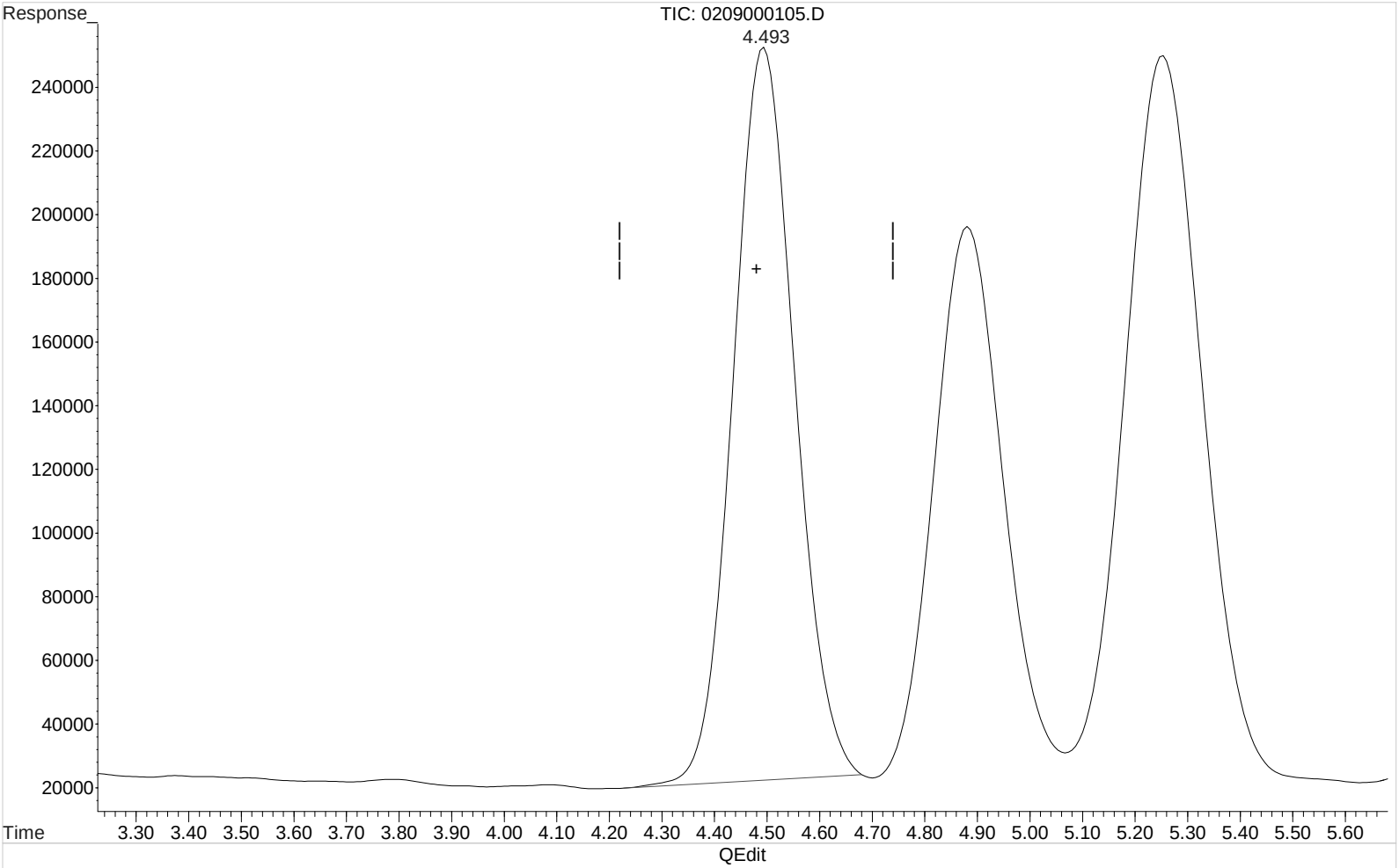
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.493min 50.613 ug/L

response 1874219

Manual Integration:

Before

02/13/17

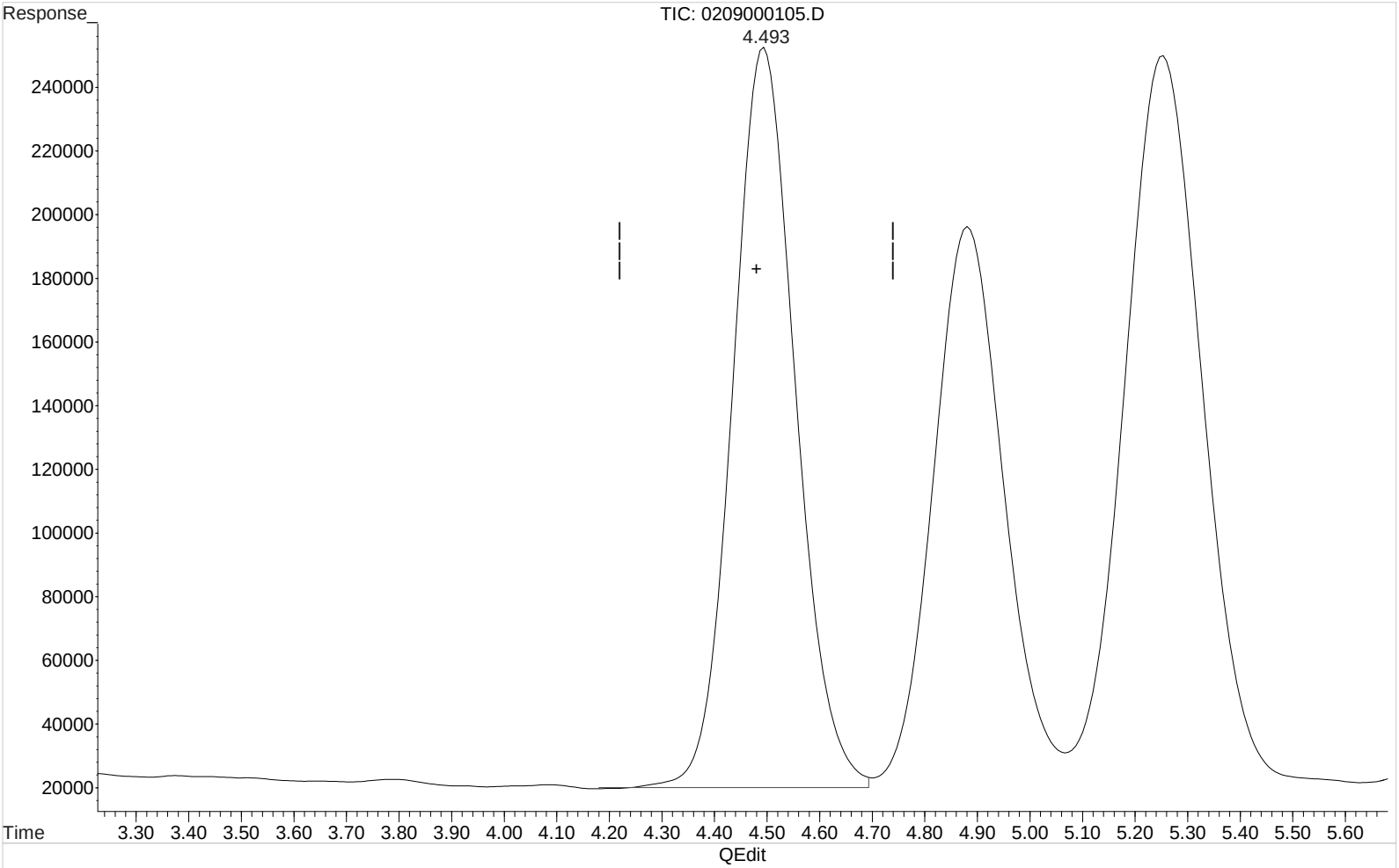
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.493min 52.121 ug/L m

response 1930068

Manual Integration:

After

BLC

02/13/17

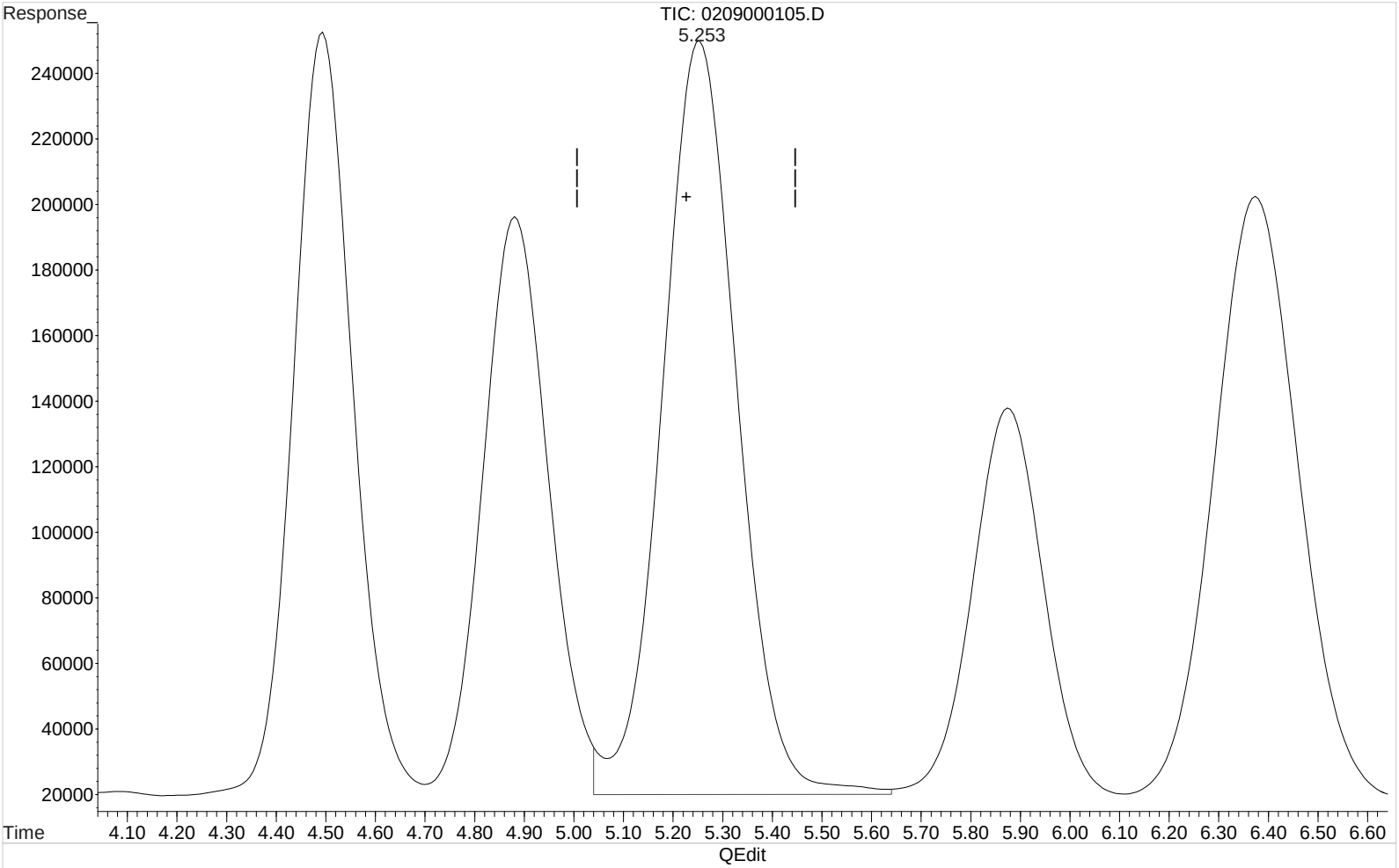
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(4) 3,5-Dinitroaniline (T)

5.253min 51.967 ug/L

response 2403967

Manual Integration:

Before

02/13/17

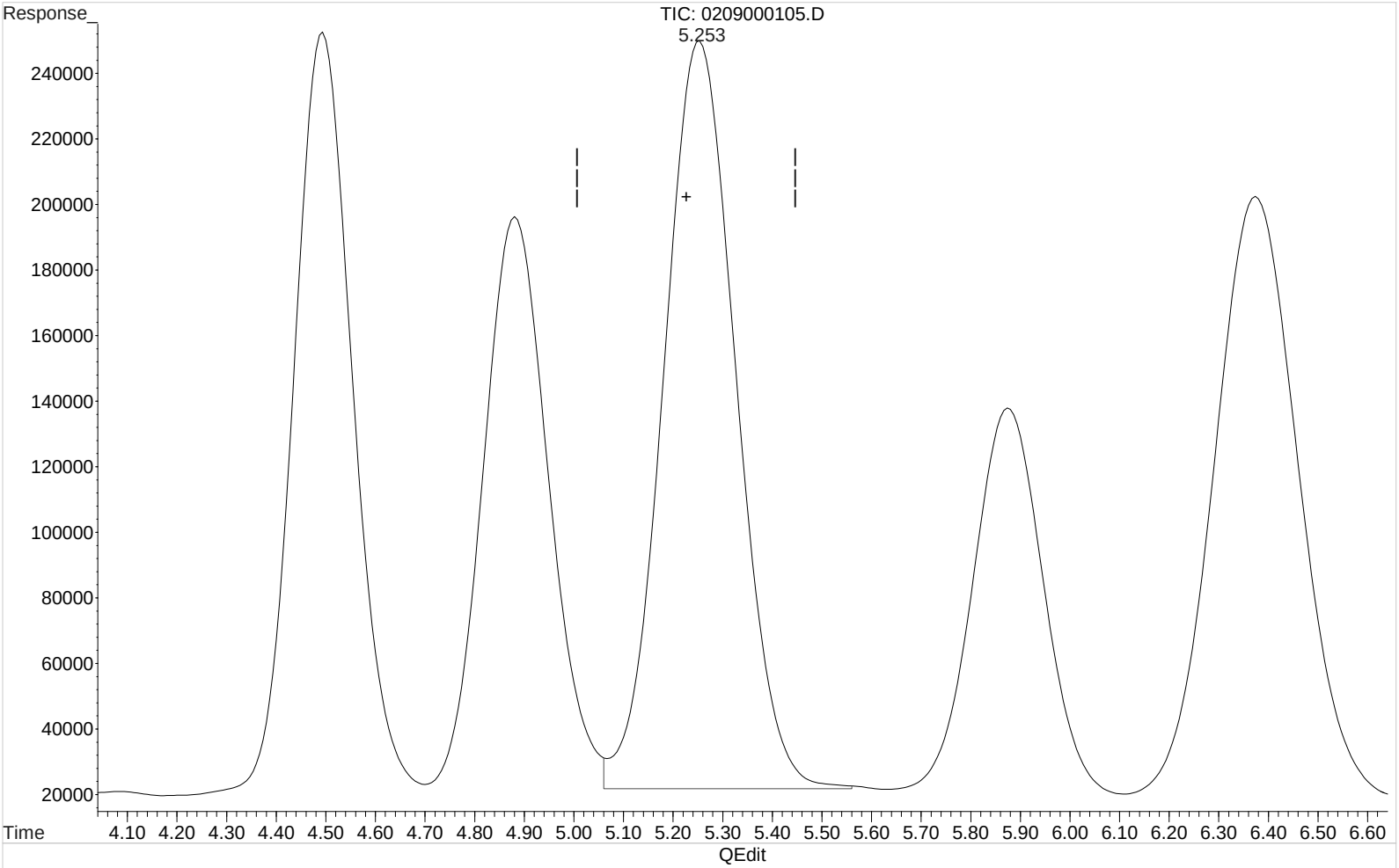
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(4) 3,5-Dinitroaniline (T)

5.253min 50.288 ug/L m

response 2326297

Manual Integration:

After

BLC

02/13/17

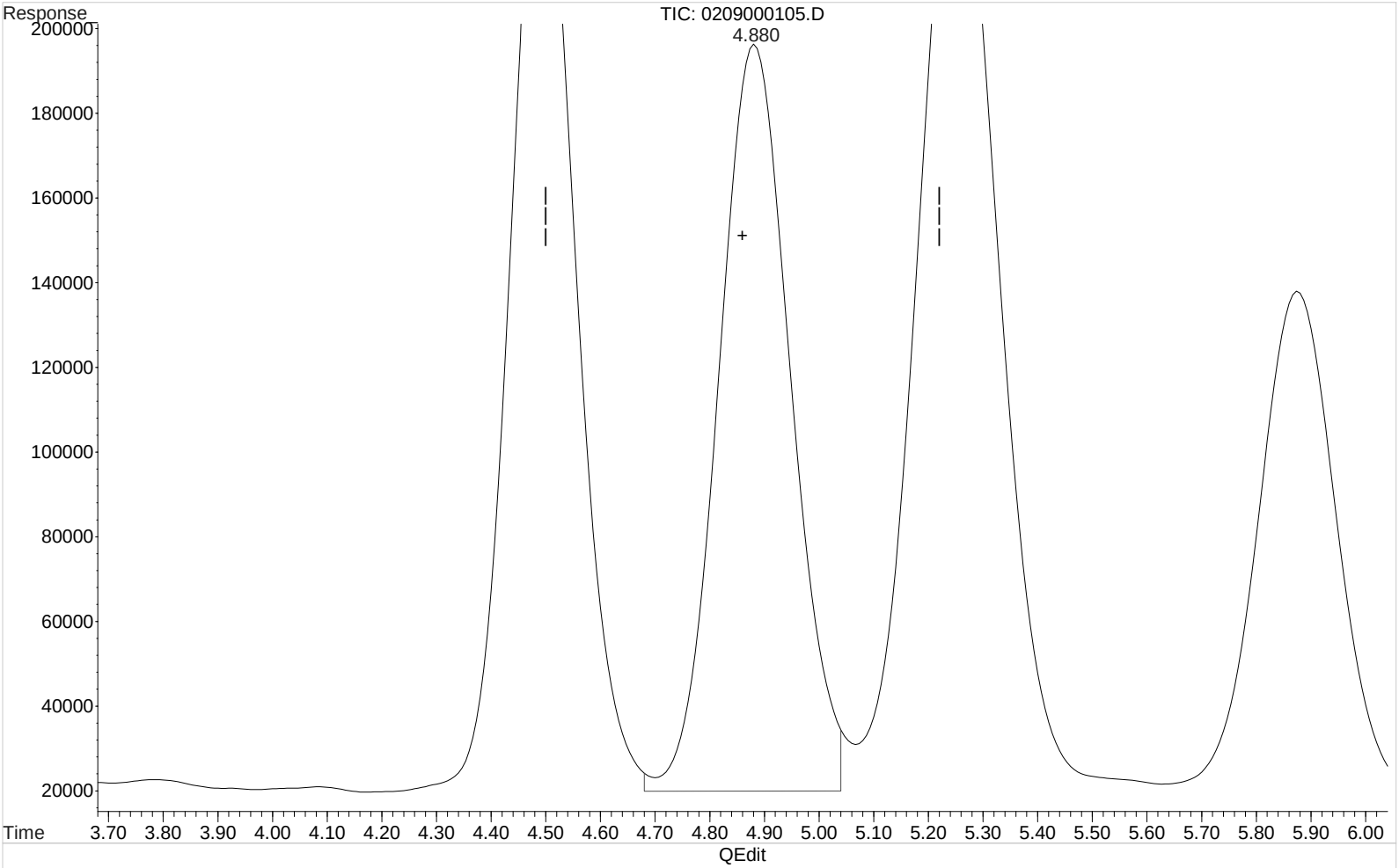
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(5) 4-Amino-2,6-DNT (T)

4.880min 51.450 ug/L

response 1627659

Manual Integration:

Before

02/13/17

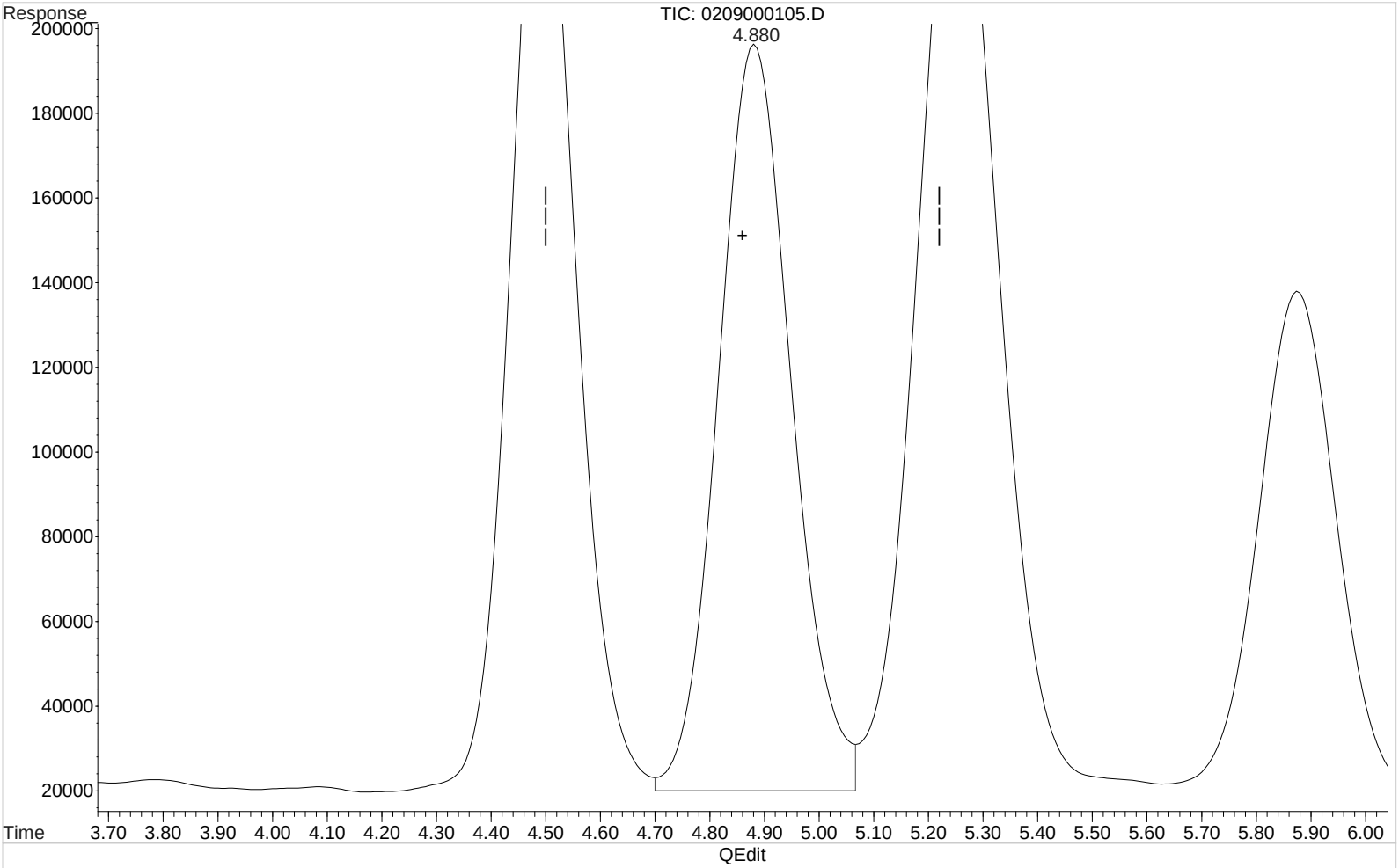
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(5) 4-Amino-2,6-DNT (T)

4.880min 51.865 ug/L m

response 1640782

Manual Integration:

After

BLC

02/13/17

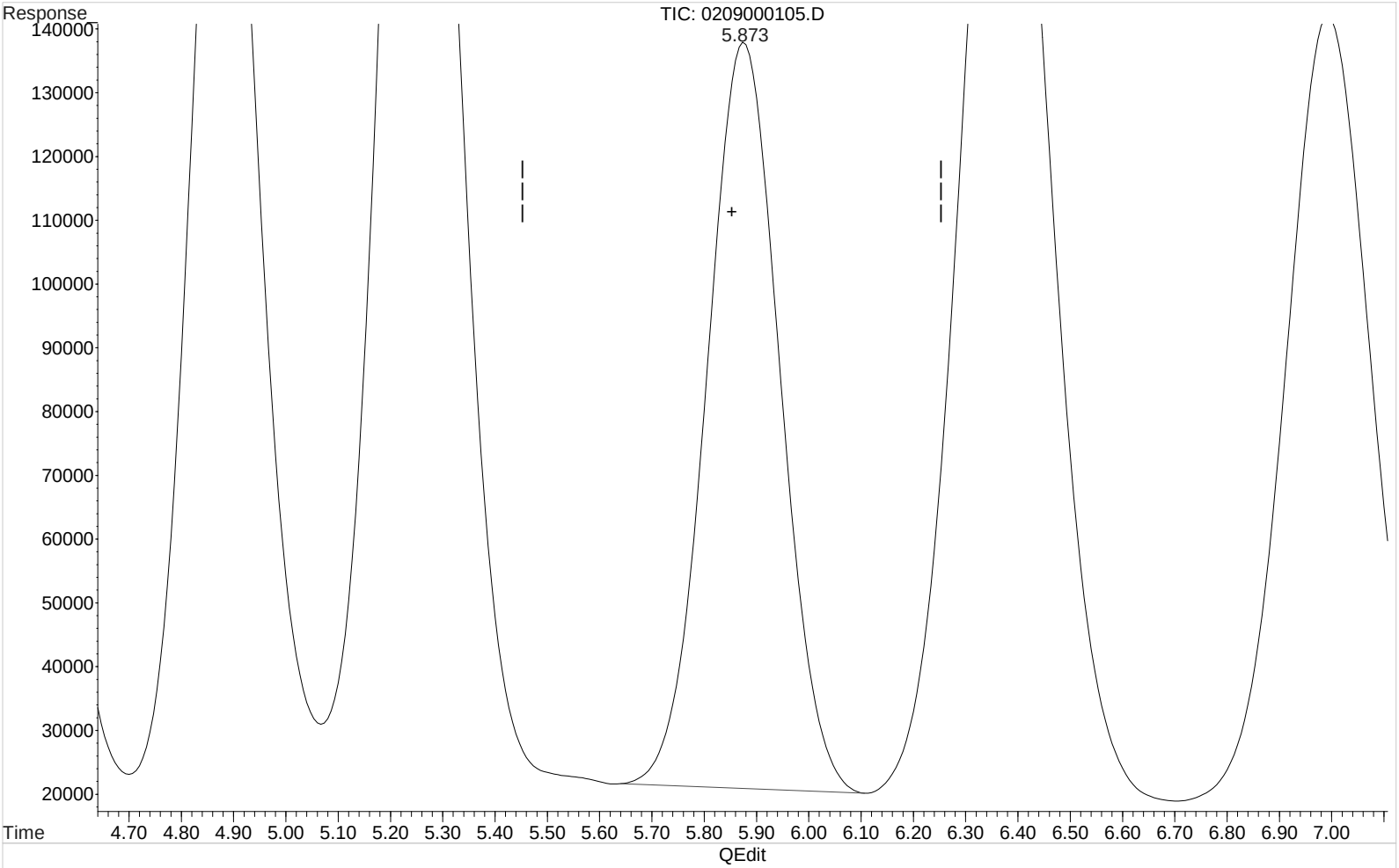
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.873min 48.523 ug/L

response 1142649

Manual Integration:

Before

02/13/17

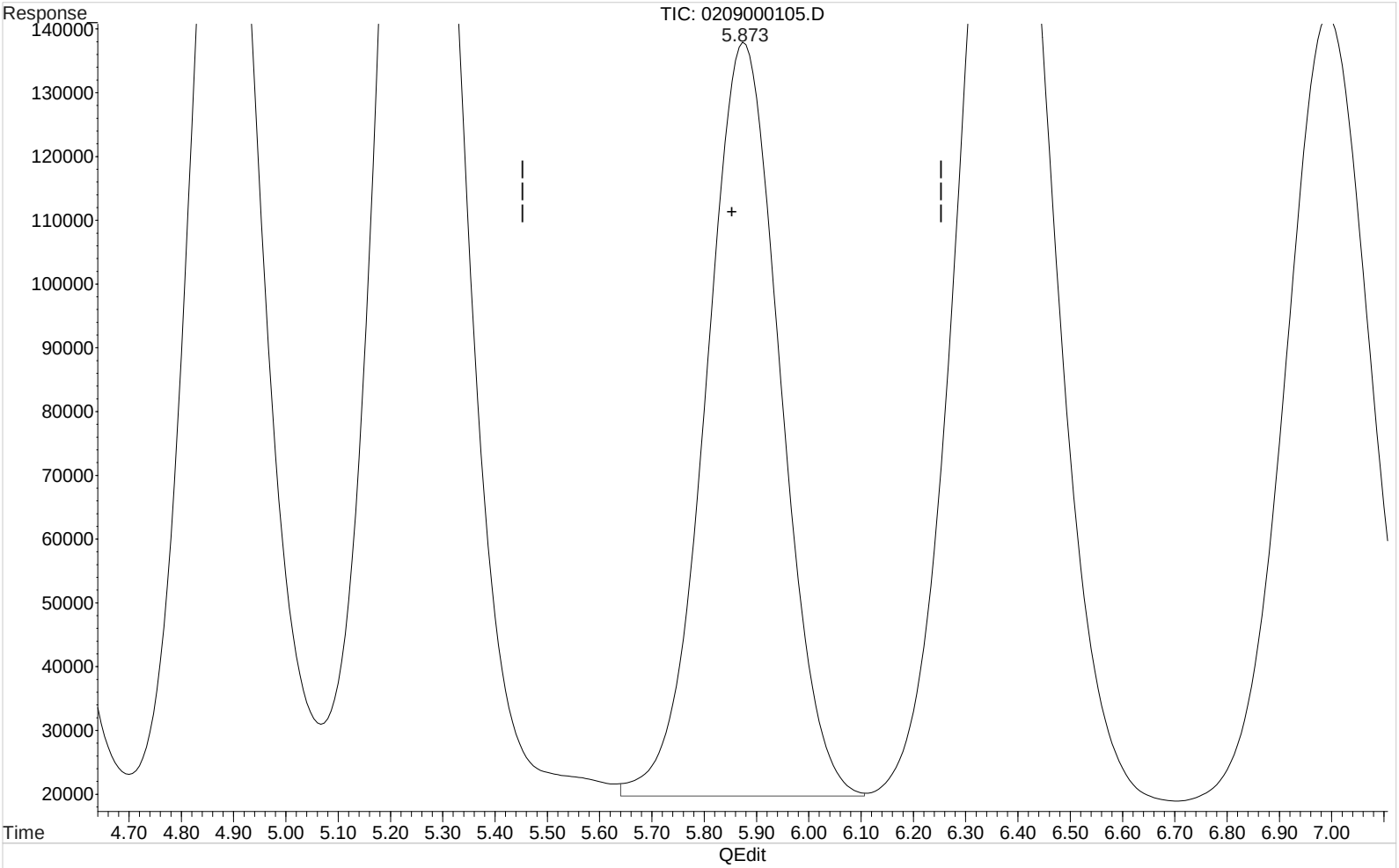
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.873min 49.902 ug/L m

response 1175129

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:21 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds							
11)	S	1-Chloro-3-Nitrobenzene	8.140	2657922	101.044	ug/L	
Target Compounds							
1)	T	HMX	2.553	1564147	99.582	ug/L	m
2)	T	RDX	2.800	1816656	101.172	ug/L	m
3)	T	Nitrobenzene	4.487	3709544	100.200	ug/L	m
4)	T	3,5-Dinitroaniline	5.247	4640472	100.360	ug/L	m
5)	T	4-Amino-2,6-DNT	4.867	3162039	99.946	ug/L	
6)	T	2-NT	5.867	2360051	100.252	ug/L	m
7)	T	2-Amino-4,6-DNT	6.367	4206003	100.723	ug/L	m
8)	T	3-NT	6.987	2804284	100.814	ug/L	
9)	T	1,3-DNB	9.140	5626152	101.488	ug/L	
10)	T	4-NT	7.853	2280814	100.351	ug/L	
12)	T	2,6-DNT	8.827	2426327	99.008	ug/L	
13)	T	2,4-DNT	14.820	5175598	101.753	ug/L	
14)	T	Tetryl	13.000	3027728	104.293	ug/L	
15)	T	1,3,5-TNB	19.807	4146878	101.012	ug/L	
16)	T	2,4,6-TNT	20.793	3878263	100.435	ug/L	

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

(b) (6)

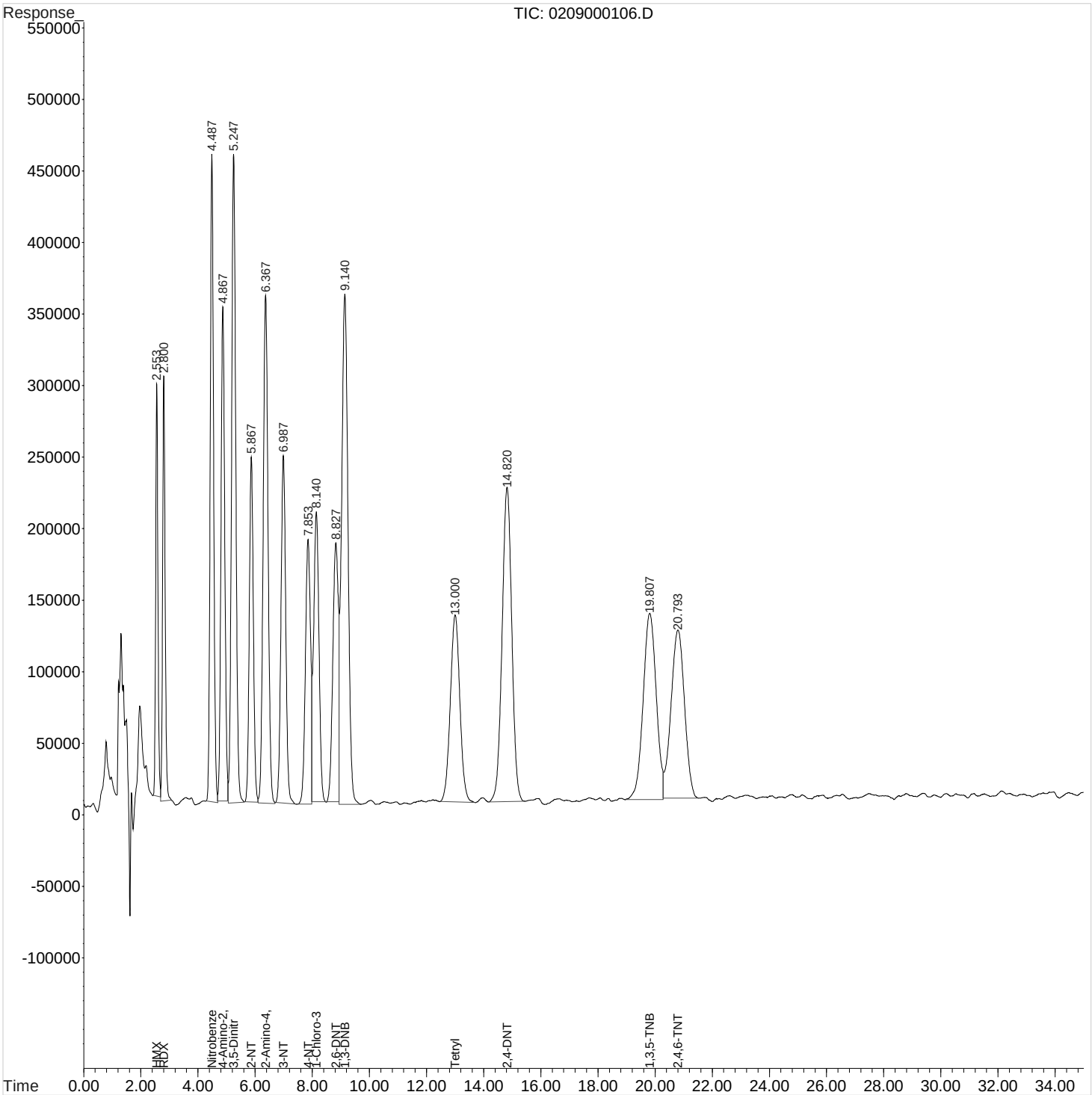
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:21 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

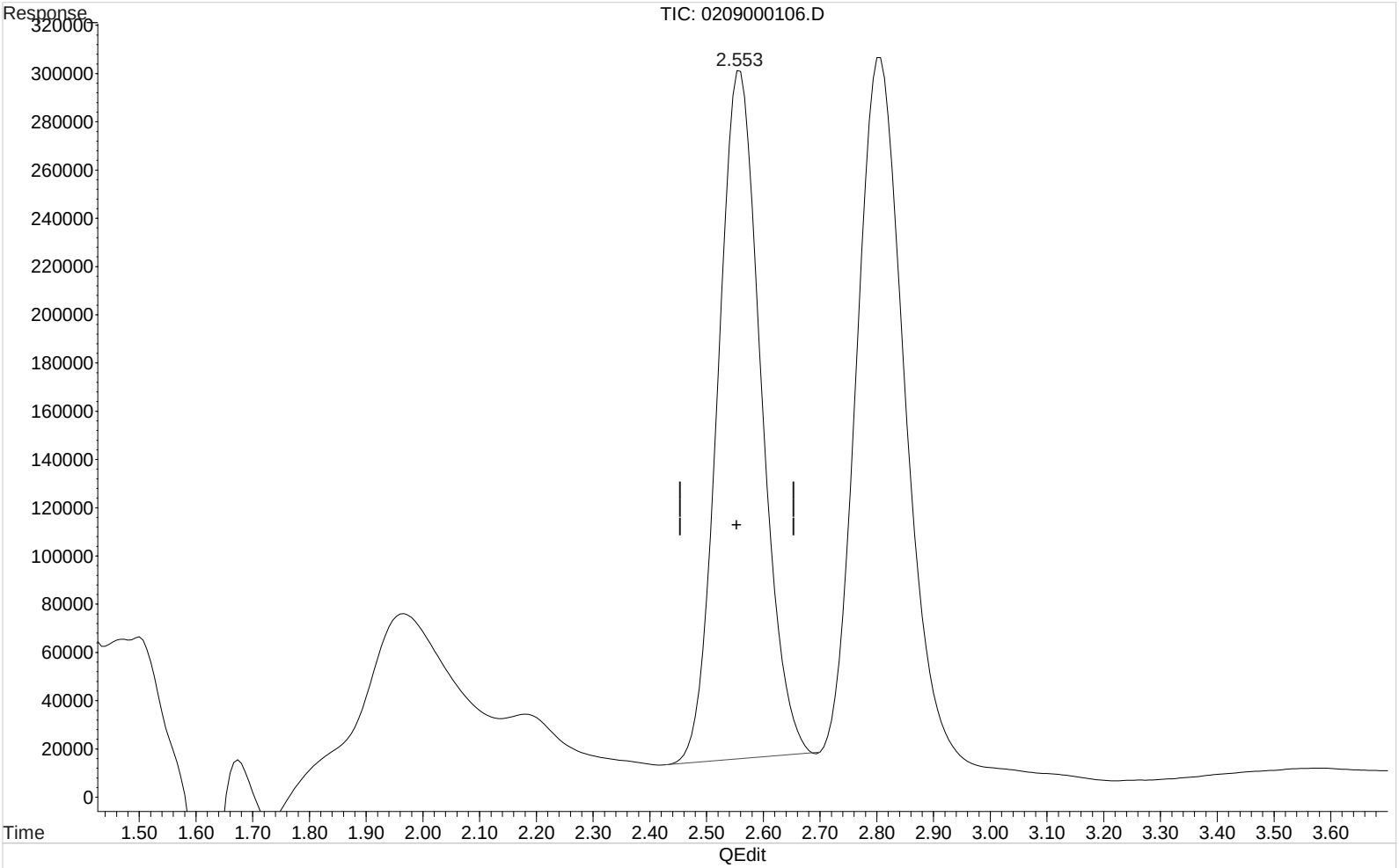


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.553min 96.655 ug/L

response 1518161

Manual Integration:

Before

02/13/17

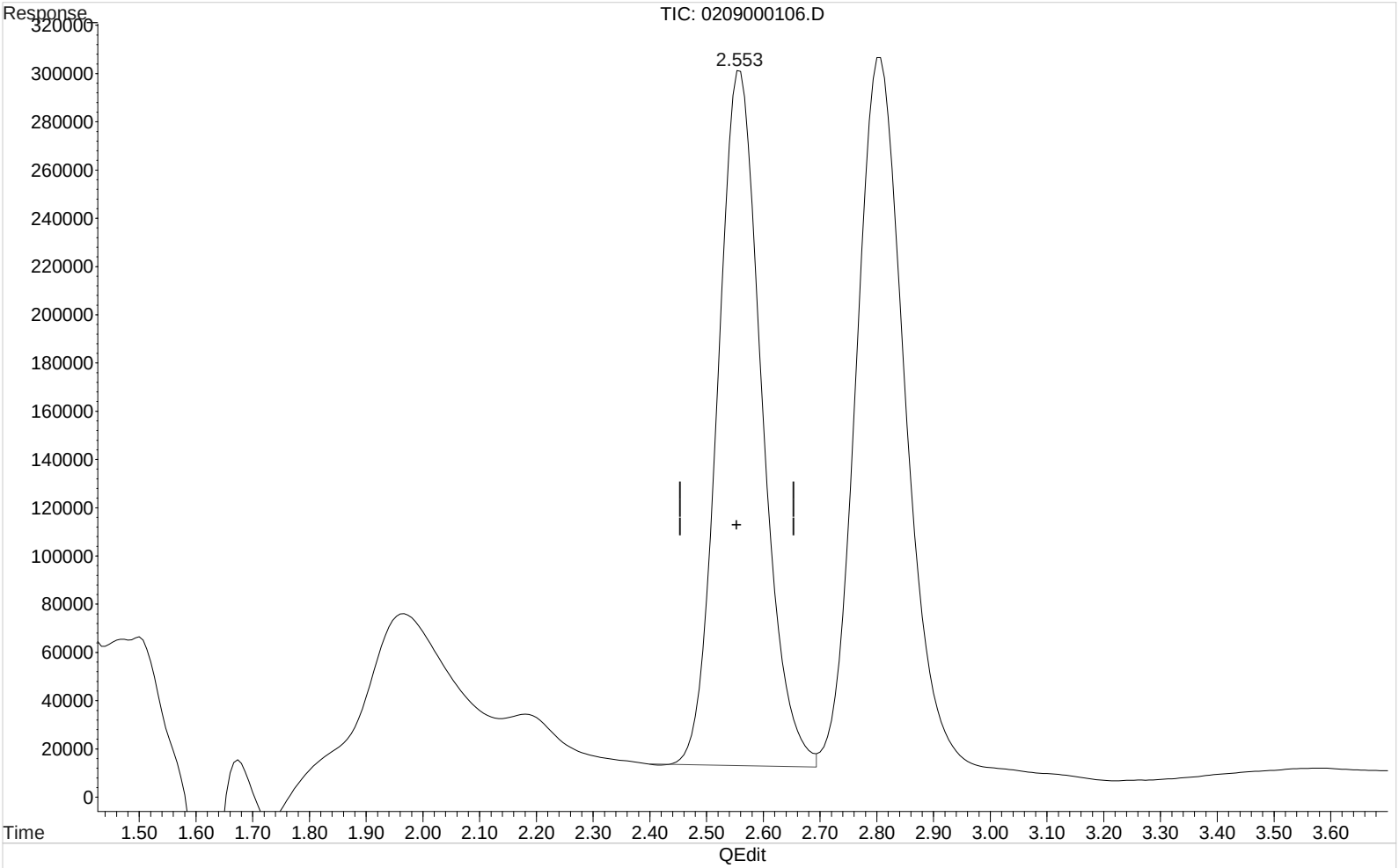
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.553min 99.582 ug/L m

response 1564147

Manual Integration:

After

BLC

02/13/17

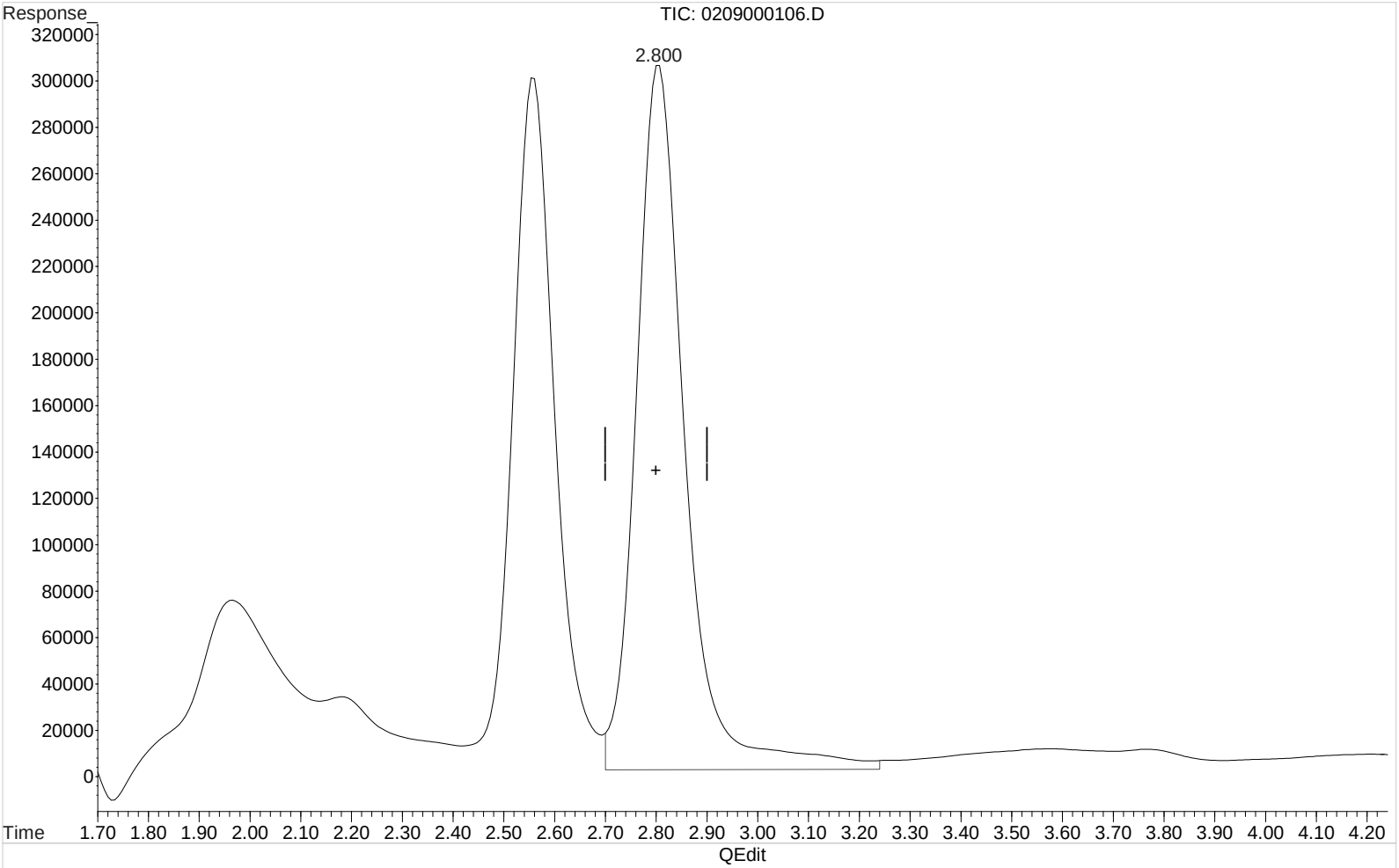
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(2) RDX (T)

2.800min 112.506 ug/L

response 2020163

Manual Integration:

Before

02/13/17

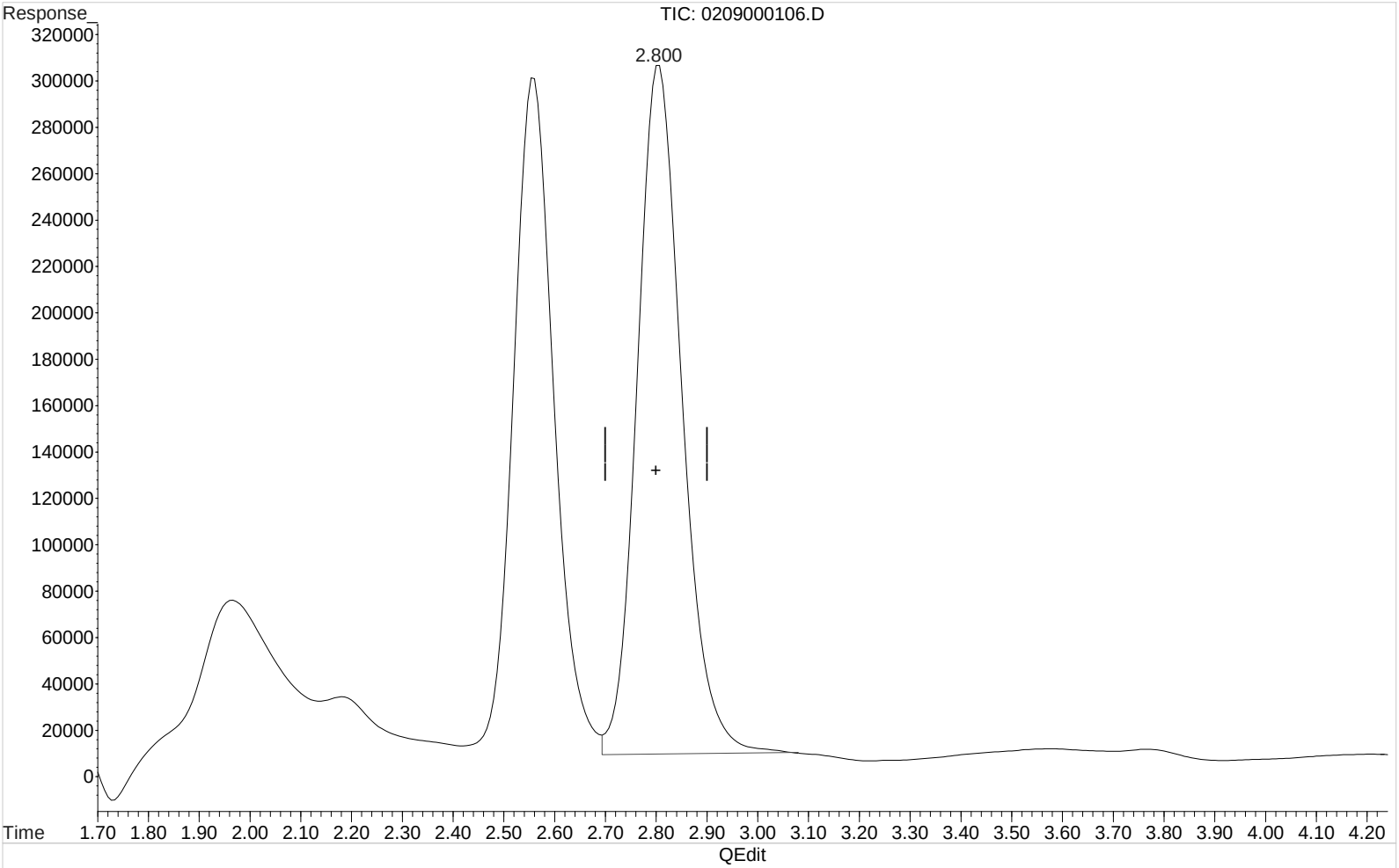
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(2) RDX (T)

2.800min 101.172 ug/L m

response 1816656

Manual Integration:

After

BLC

02/13/17

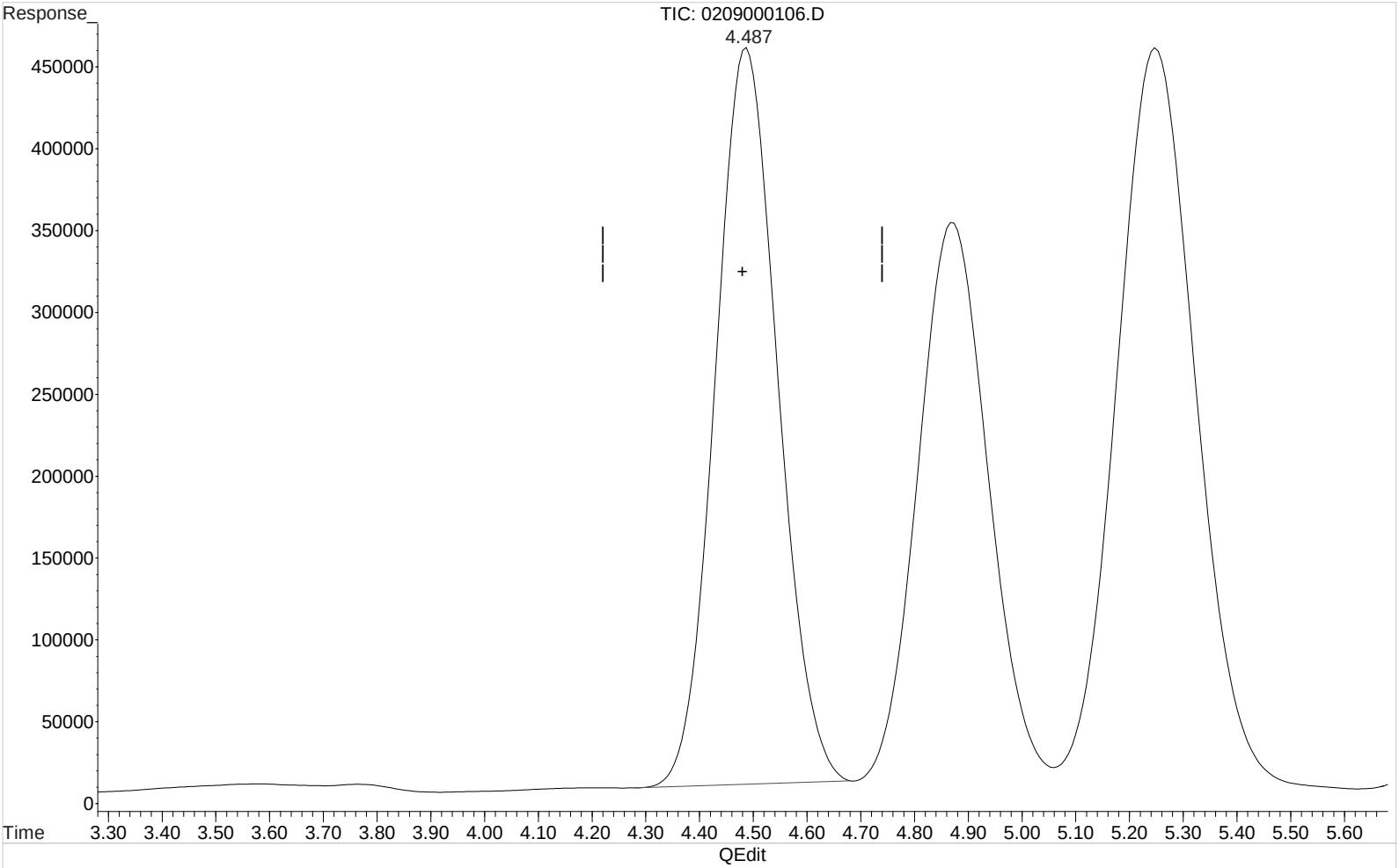
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 98.379 ug/L

response 3642131

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

(b) (6)

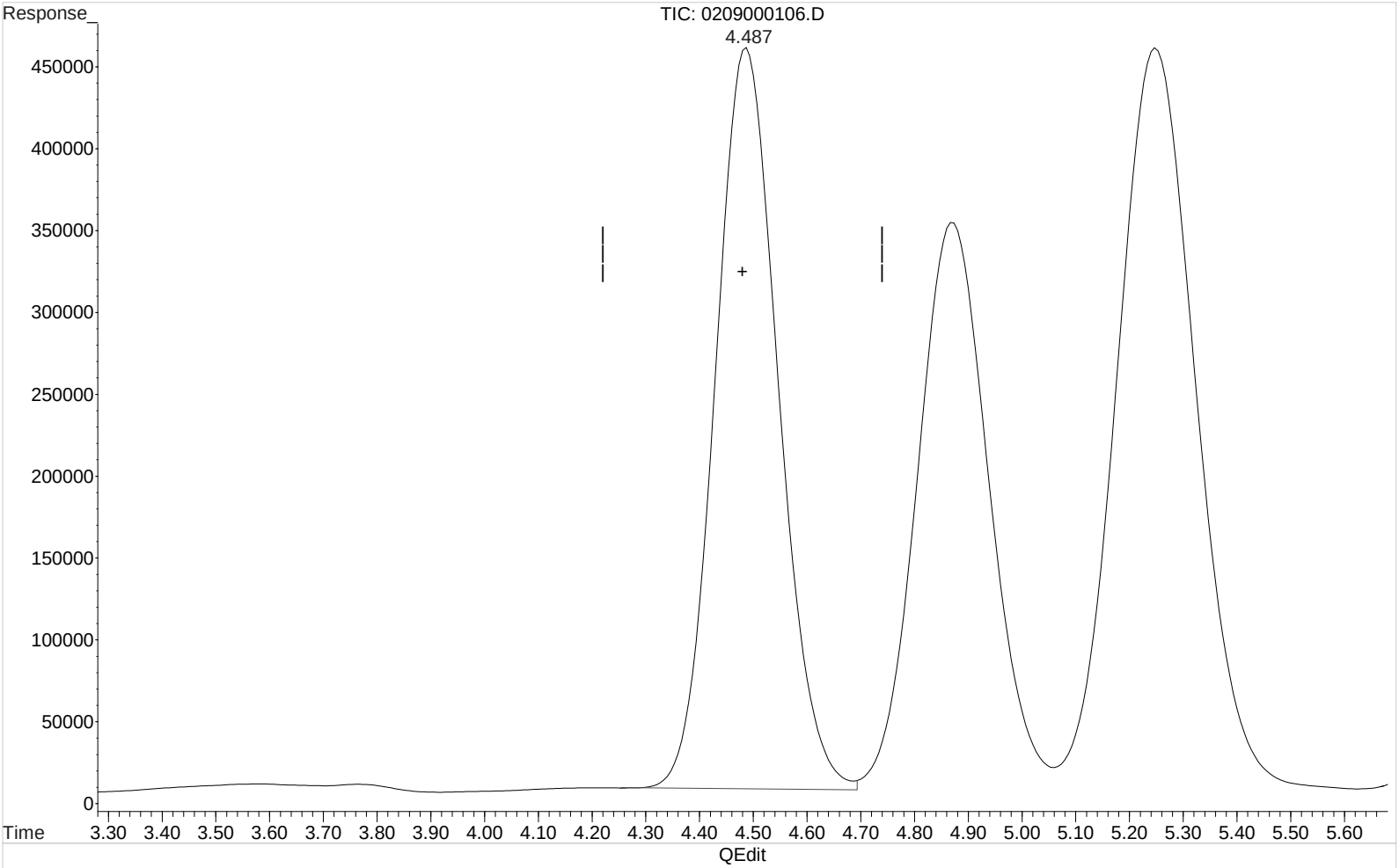
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 100.200 ug/L m

response 3709544

Manual Integration:

After

BLC

02/13/17

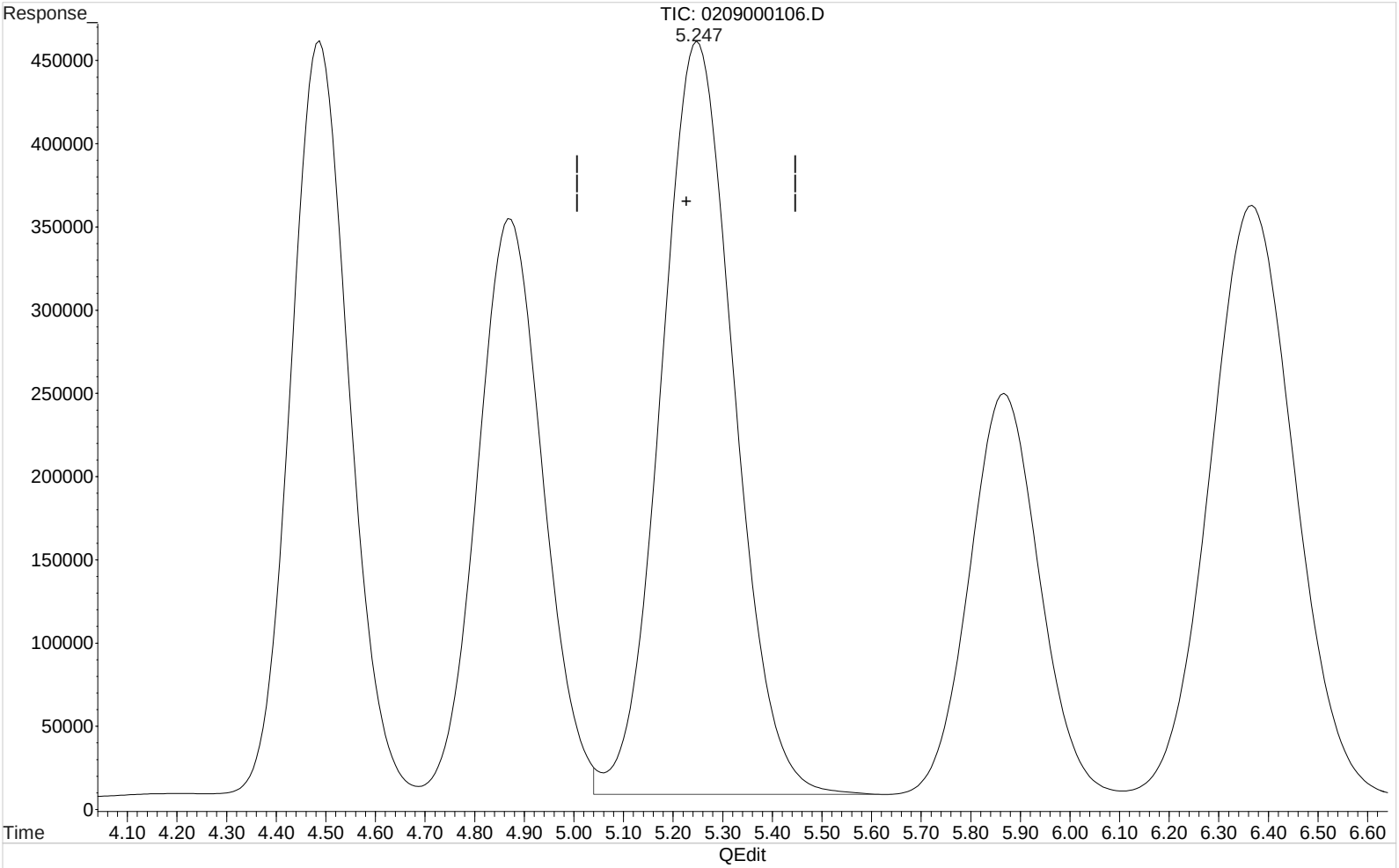
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(4) 3,5-Dinitroaniline (T)

5.247min 100.244 ug/L

response 4635102

Manual Integration:

Before

02/13/17

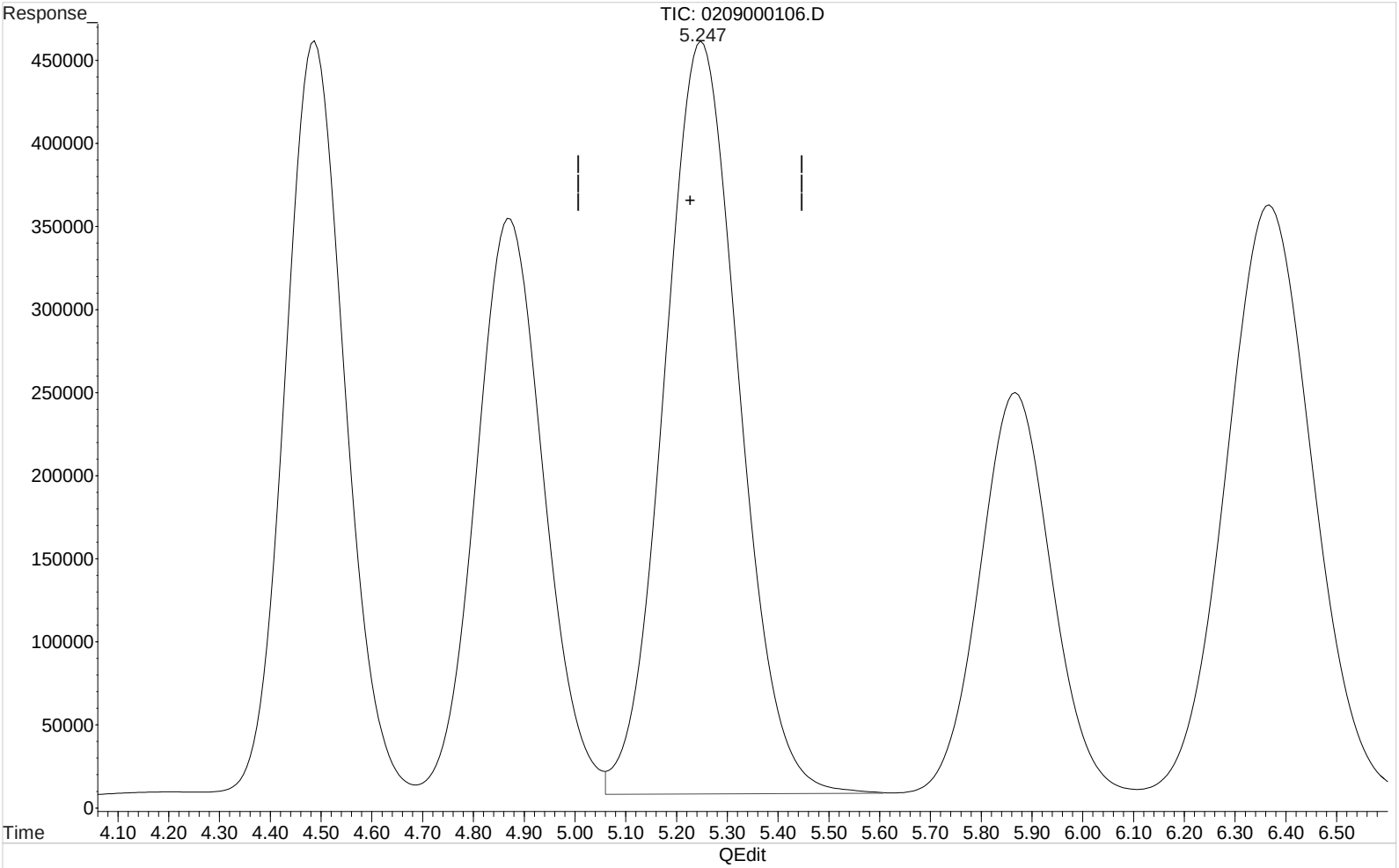
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:21 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(4) 3,5-Dinitroaniline (T)

5.247min 100.360 ug/L m

response 4640472

Manual Integration:

After

BLC

02/13/17

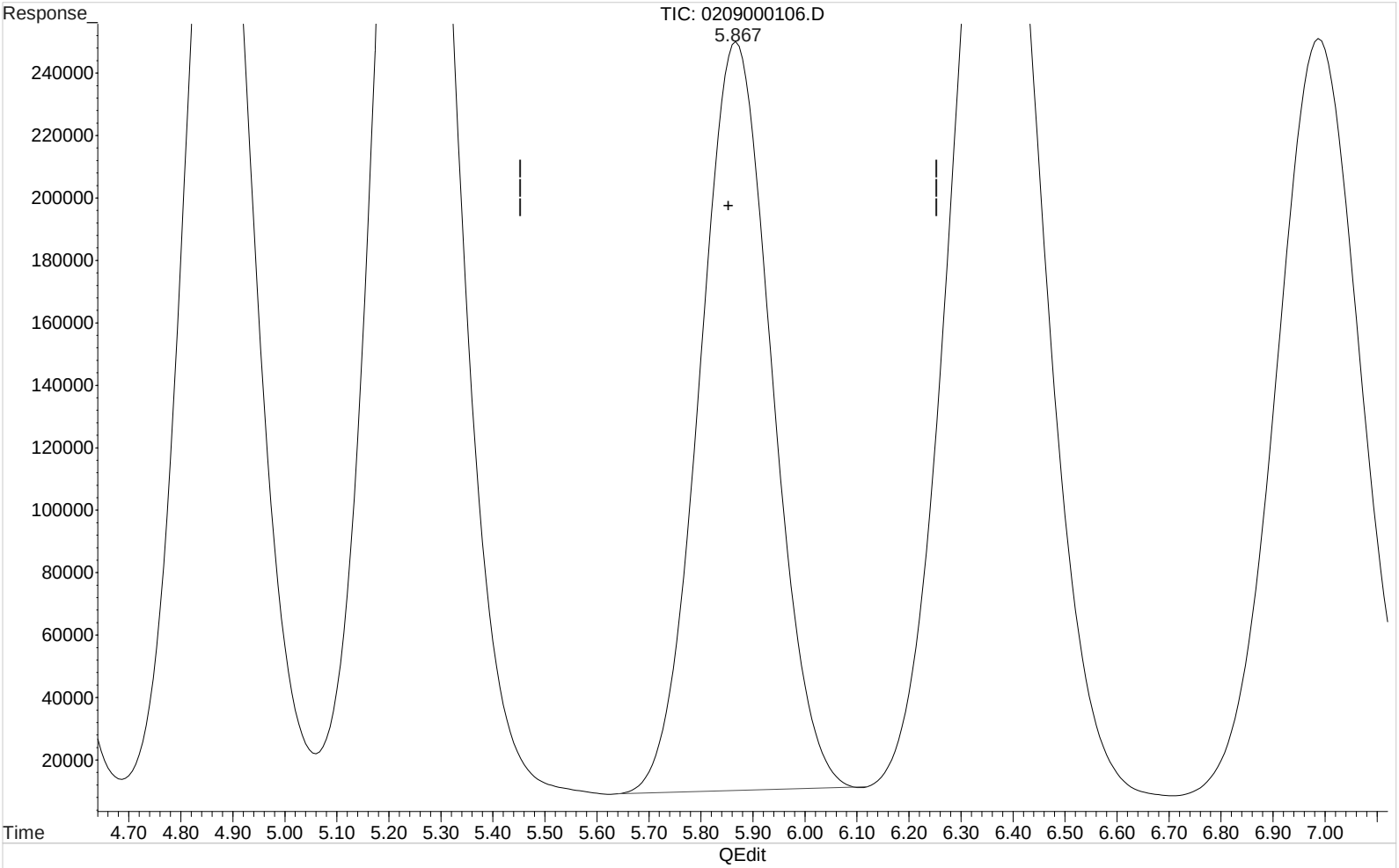
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.867min 98.817 ug/L

response 2326248

Manual Integration:

Before

02/13/17

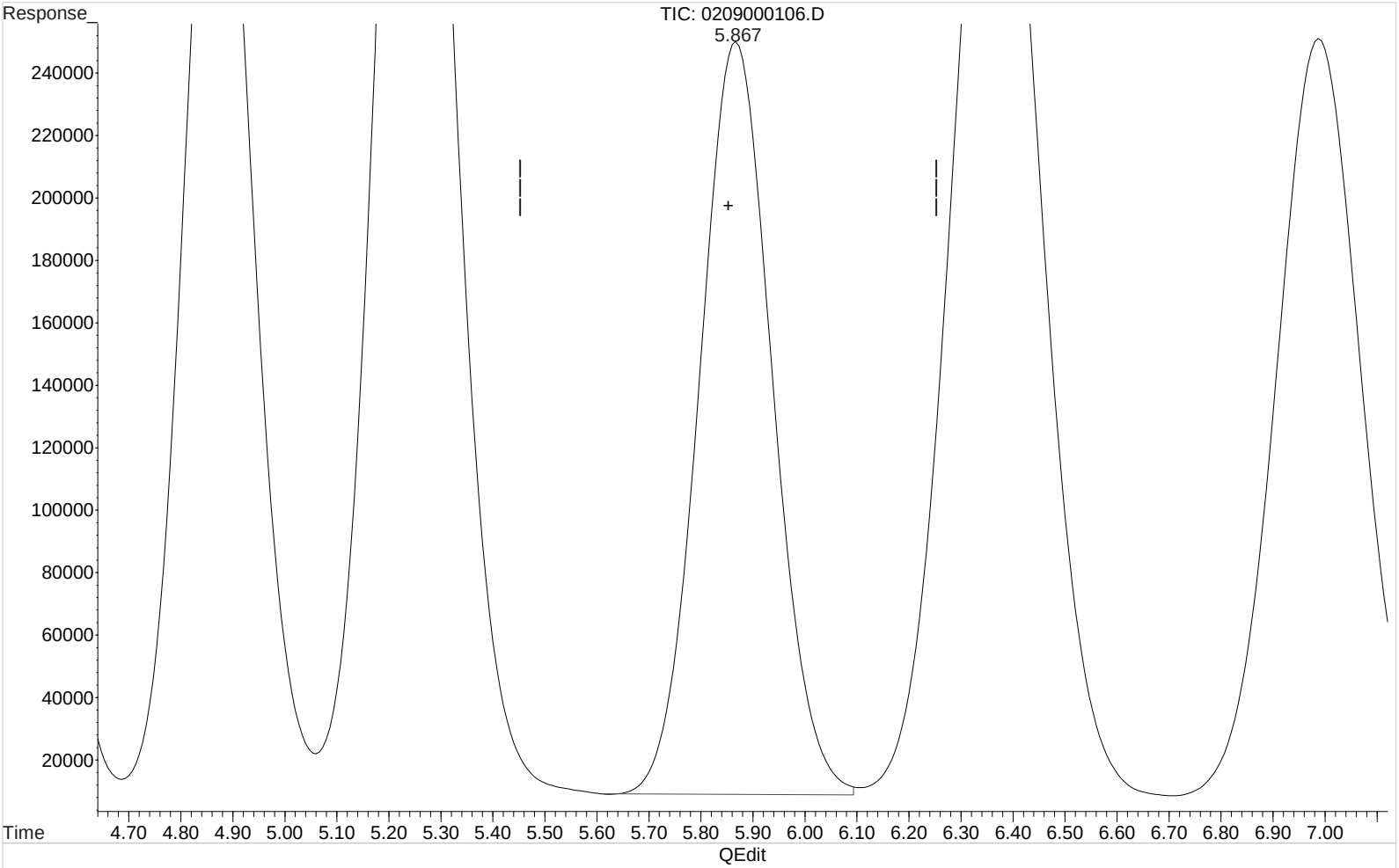
(+) = Expected Retention Time

(b) (6)
1st 2/13/17
2n 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.867min 100.252 ug/L m

response 2360051

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b) (6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
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Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
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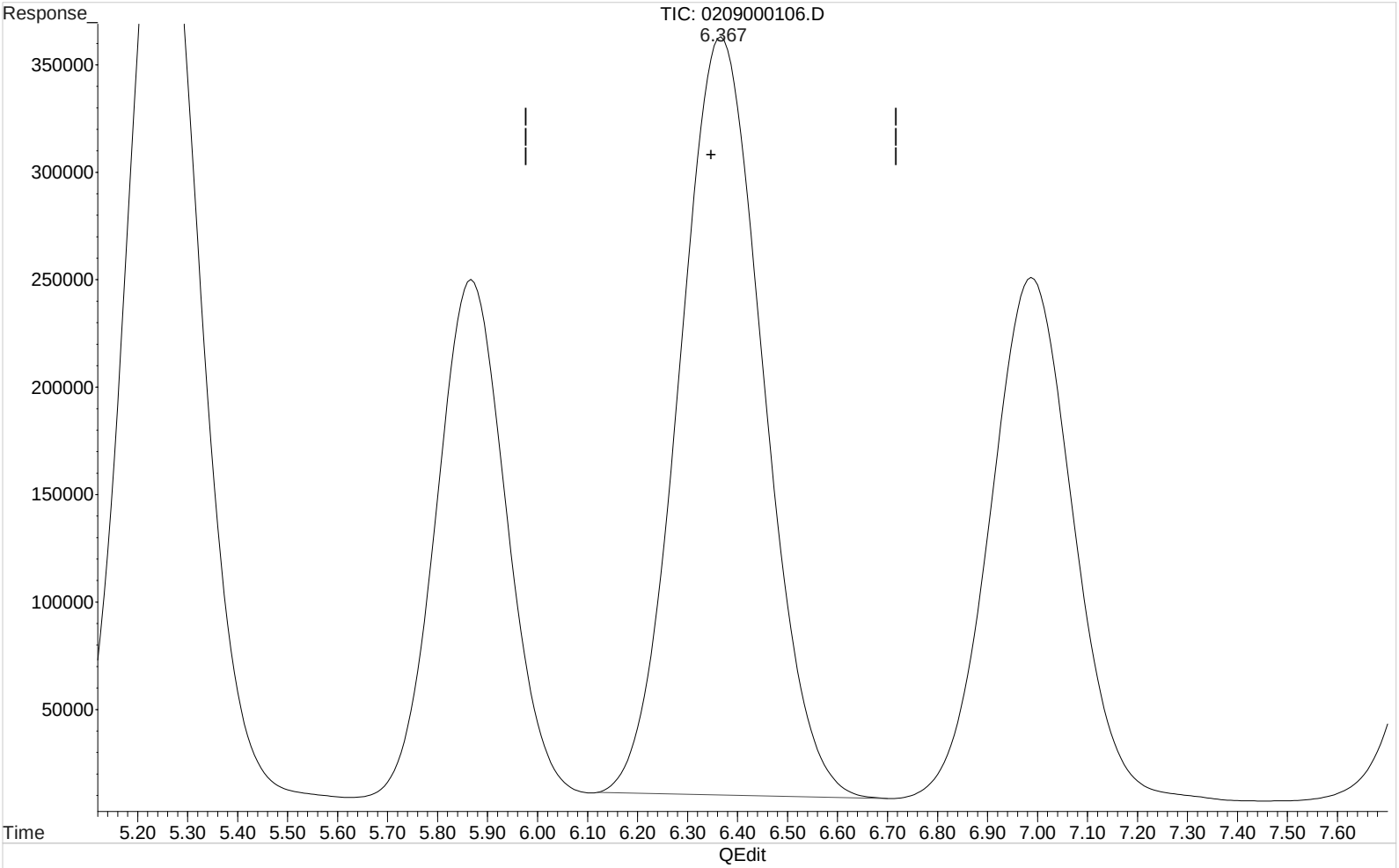
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.367min 99.082 ug/L

response 4137499

Manual Integration:

Before

02/13/17

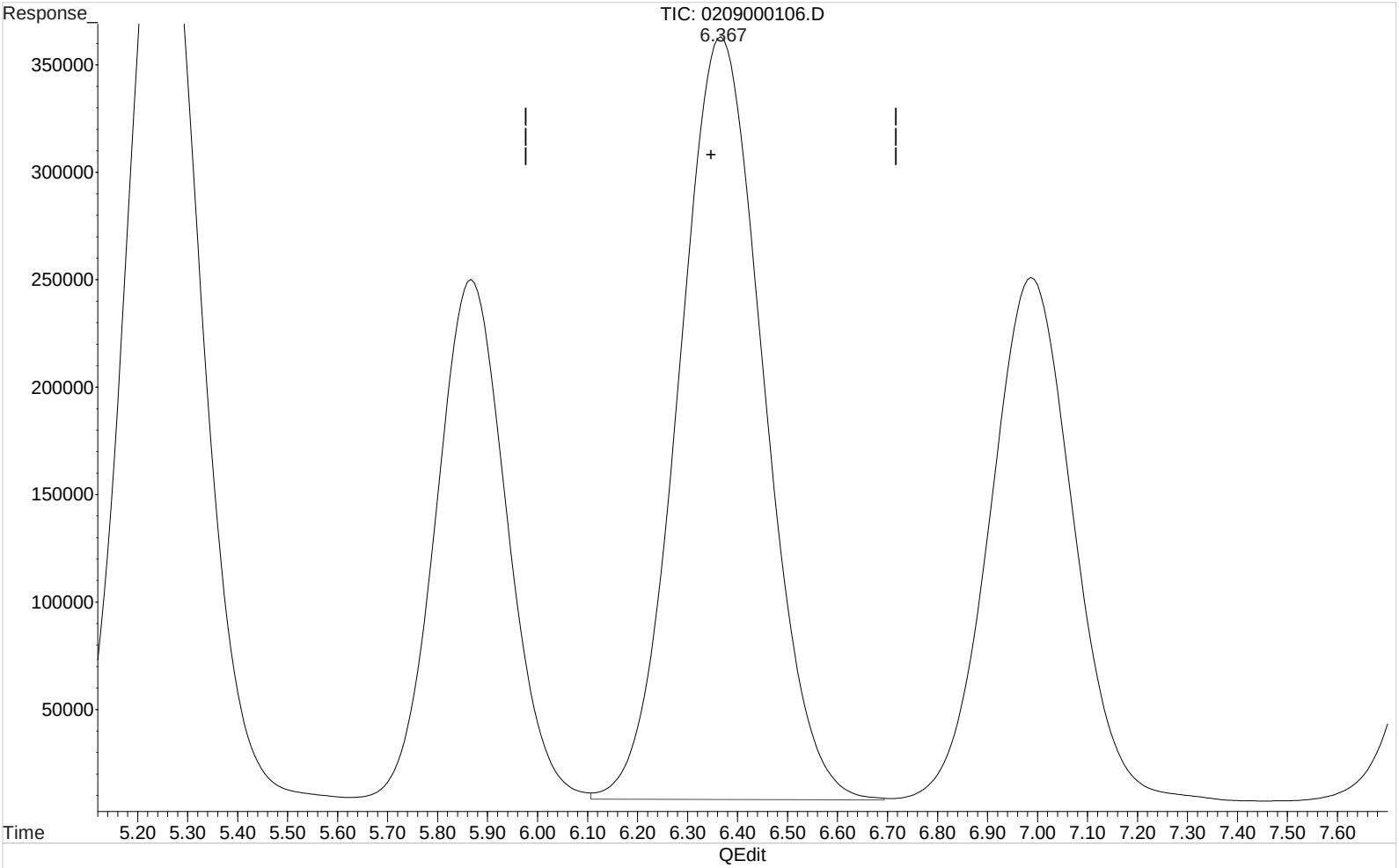
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(7) 2-Amino-4,6-DNT (T)

6.367min 100.723 ug/L m

response 4206003

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:02:59 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
11) S	1-Chloro-3-Nitrobenzene	8.133	5220675	198.216	ug/L	
	Target Compounds					
1) T	HMX	2.553	3190741	203.674	ug/L	m
2) T	RDX	2.800	3669487	205.104	ug/L	m
3) T	Nitrobenzene	4.487	7378721	199.195	ug/L	m
4) T	3,5-Dinitroaniline	5.240	9267786	200.507	ug/L	
5) T	4-Amino-2,6-DNT	4.867	6395822	202.523	ug/L	
6) T	2-NT	5.860	4647246	196.985	ug/L	m
7) T	2-Amino-4,6-DNT	6.360	8414458	201.757	ug/L	m
8) T	3-NT	6.980	5578596	200.643	ug/L	m
9) T	1,3-DNB	9.133	11230158	203.013	ug/L	
10) T	4-NT	7.847	4460100	195.620	ug/L	
12) T	2,6-DNT	8.820	4883983	199.176	ug/L	
13) T	2,4-DNT	14.813	10333460	203.692	ug/L	
14) T	Tetryl	13.000	5723089	196.668	ug/L	
15) T	1,3,5-TNB	19.820	8131157	197.745	ug/L	
16) T	2,4,6-TNT	20.800	7763771	201.236	ug/L	

(f)=RT Delta > 1/2 Window (m)=manual int.

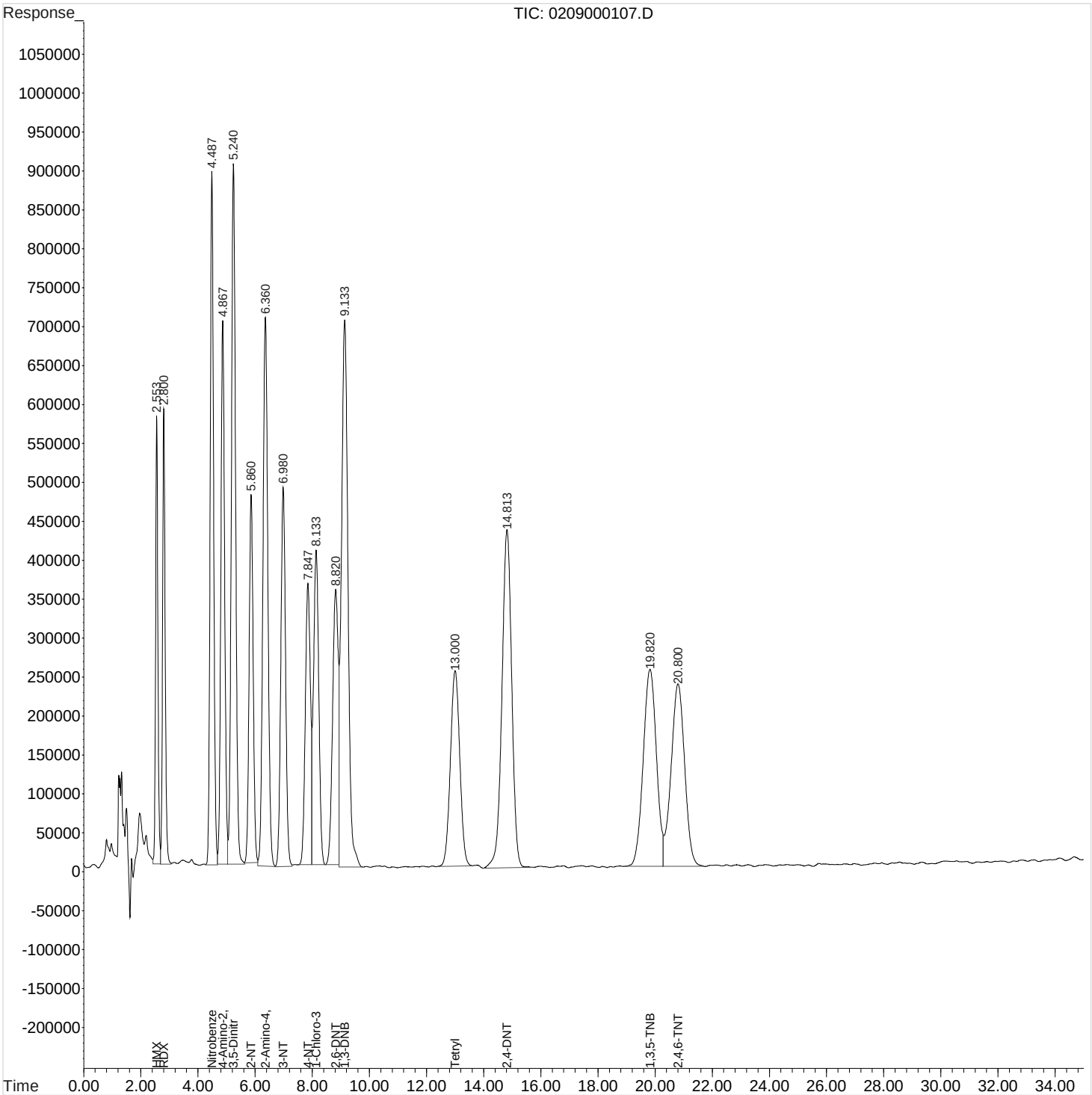
Quantitation Report (QT Reviewed)

1st (b)(6) 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:02:59 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



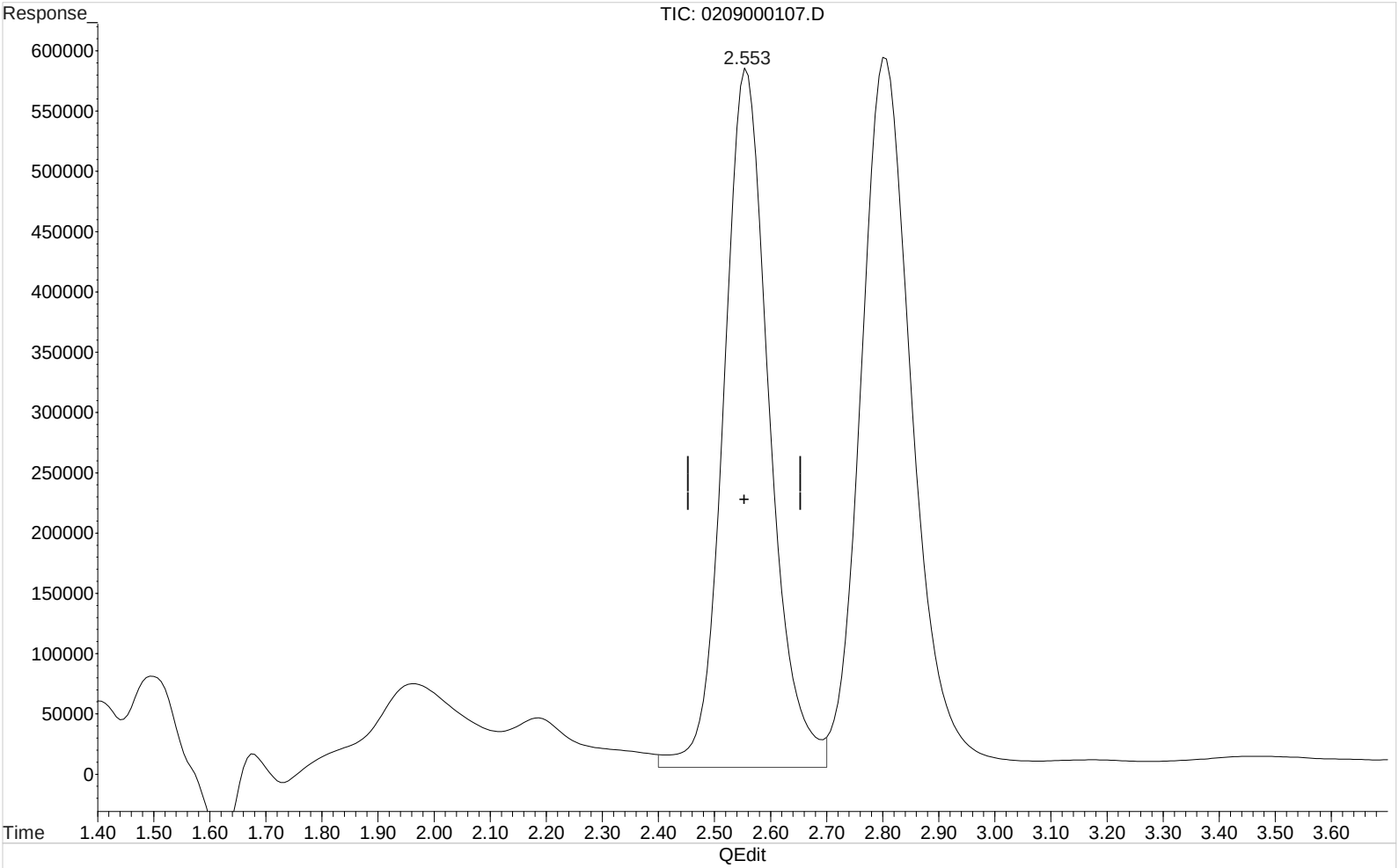
Quantitation Report (Qedit)

(b)
(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.553min 209.905 ug/L

response 3288352

Manual Integration:

Before

02/13/17

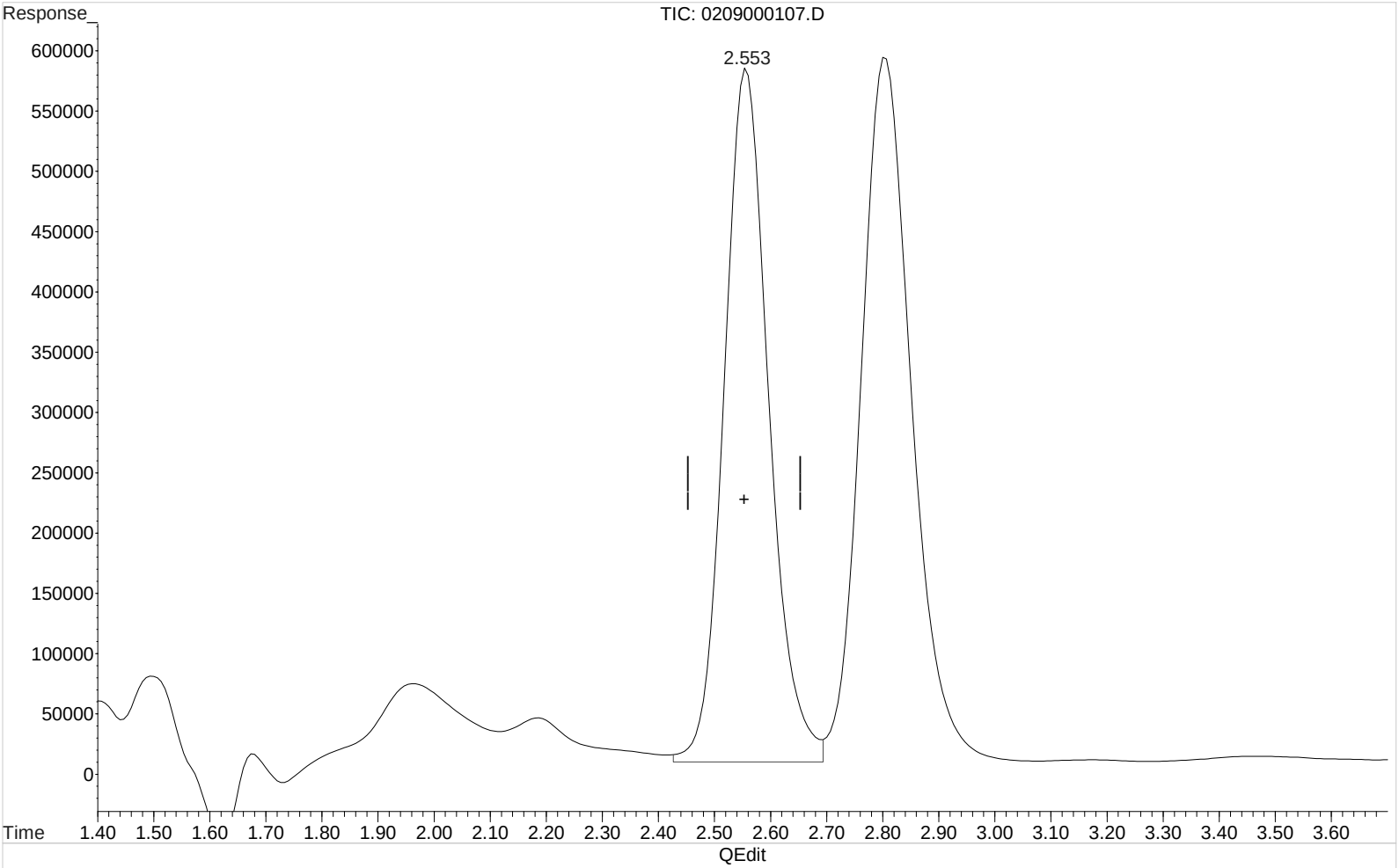
(+) = Expected Retention Time

(b)(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.553min 203.674 ug/L m

response 3190741

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

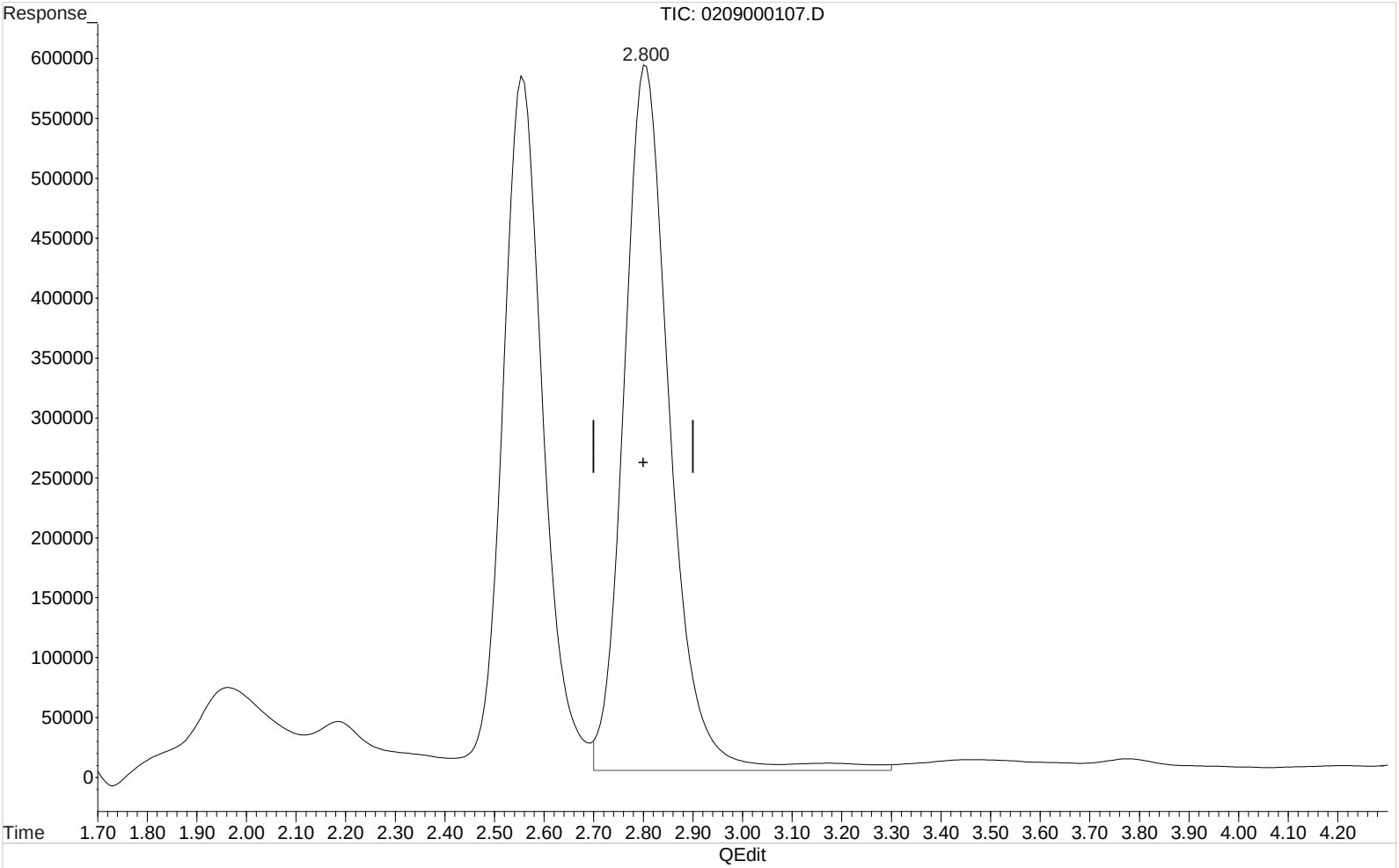
Quantitation Report (Qedit)

(b)(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(2) RDX (T)

2.800min 213.070 ug/L

response 3812015

Manual Integration:

Before

02/13/17

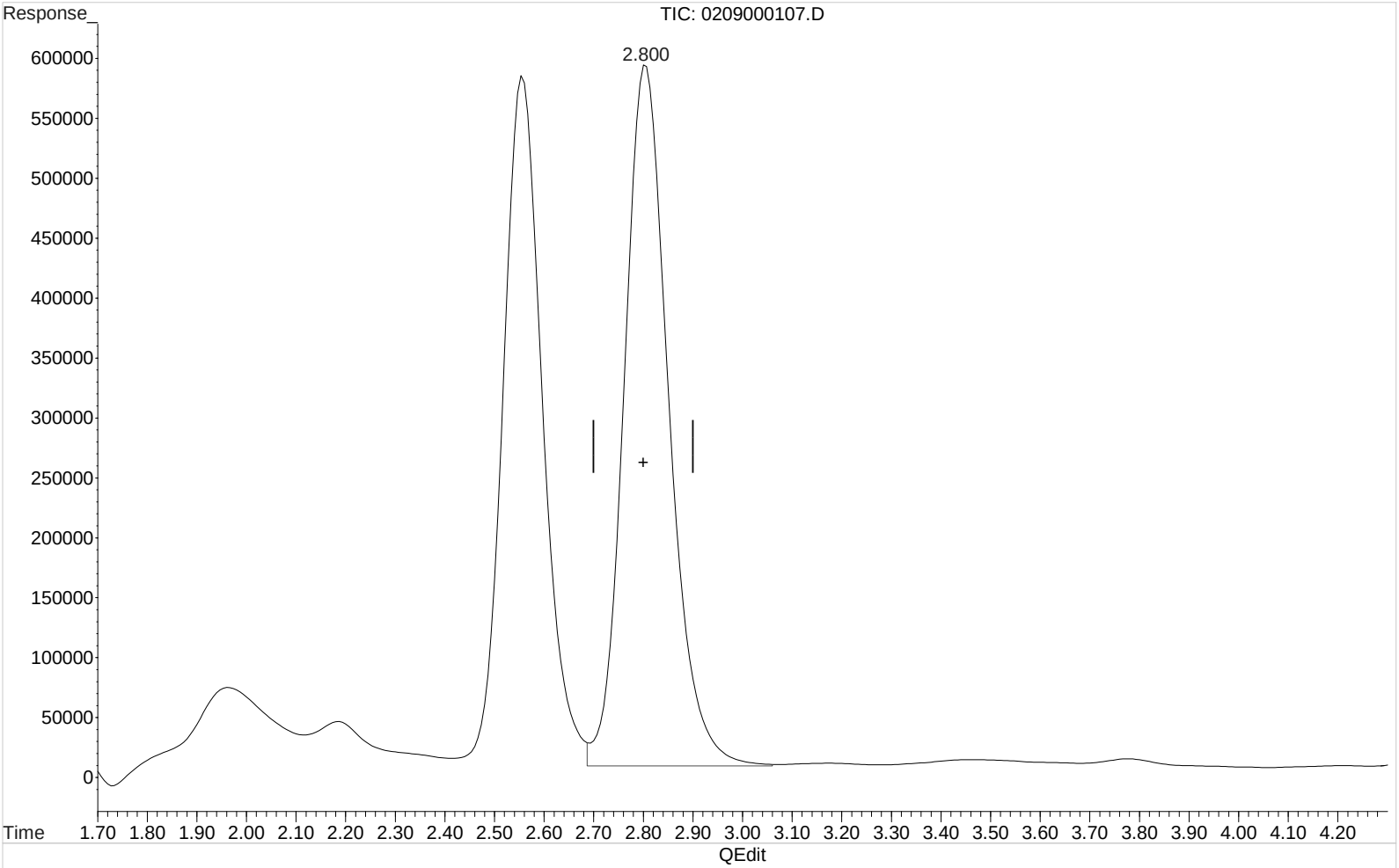
(+) = Expected Retention Time

1st (b)(6) 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.800min 205.104 ug/L m

response 3669487

Manual Integration:

After

BLC

02/13/17

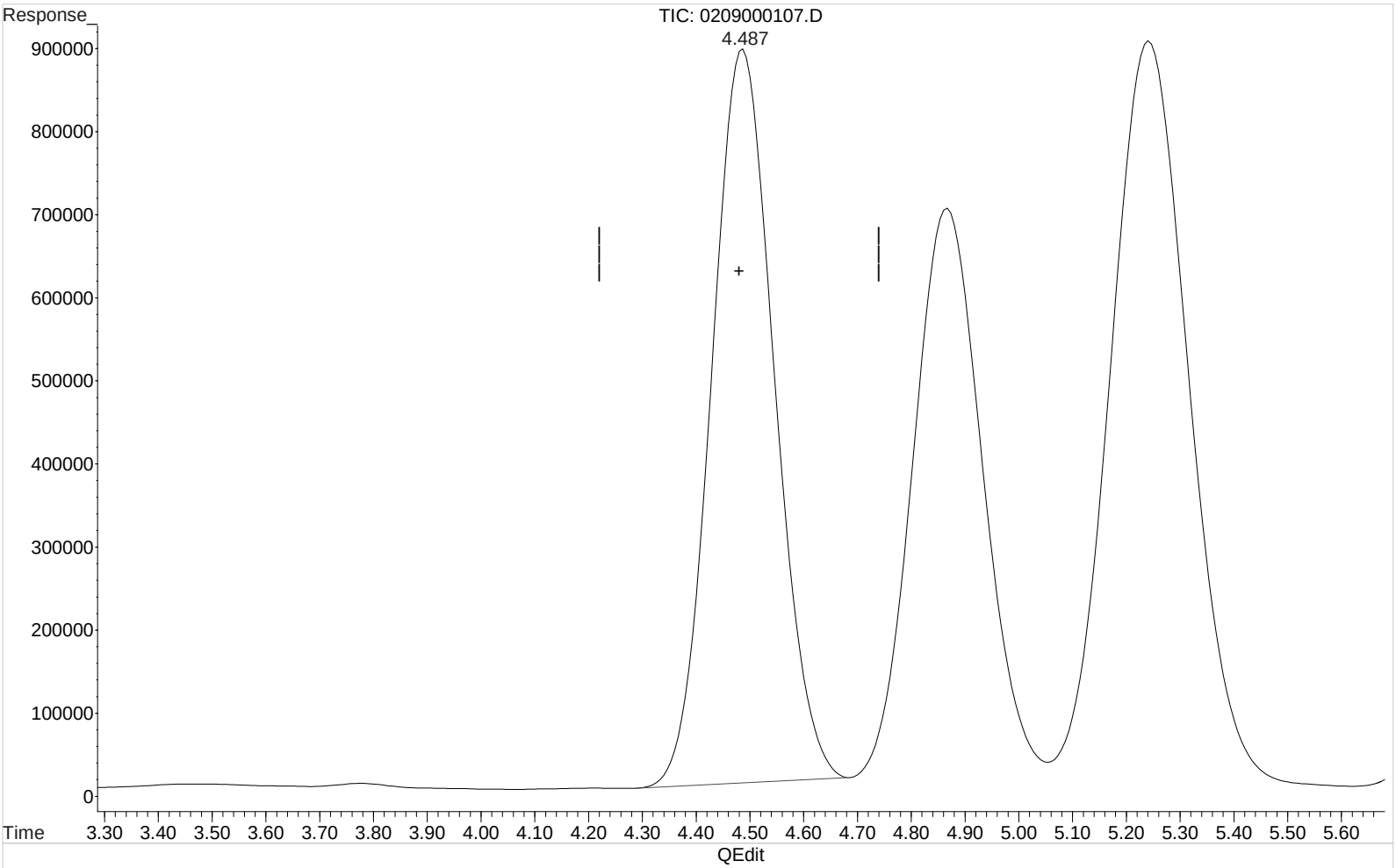
(+) = Expected Retention Time

(b)(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(3) Nitrobenzene (T)

4.487min 194.479 ug/L

response 7204041

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

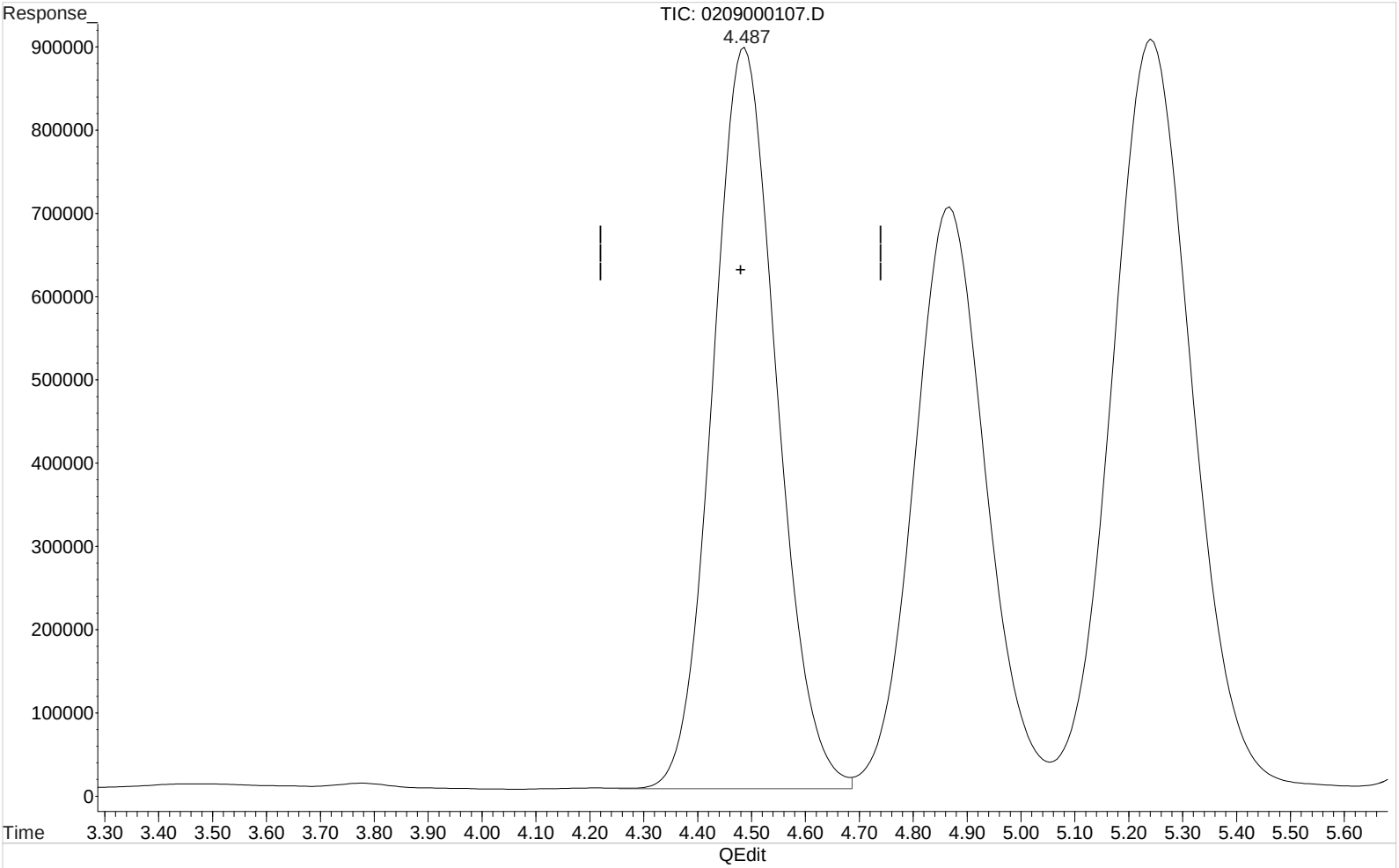
Quantitation Report (Qedit)

(b) (6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(3) Nitrobenzene (T)

4.487min 199.195 ug/L m

response 7378721

Manual Integration:

After

BLC

02/13/17

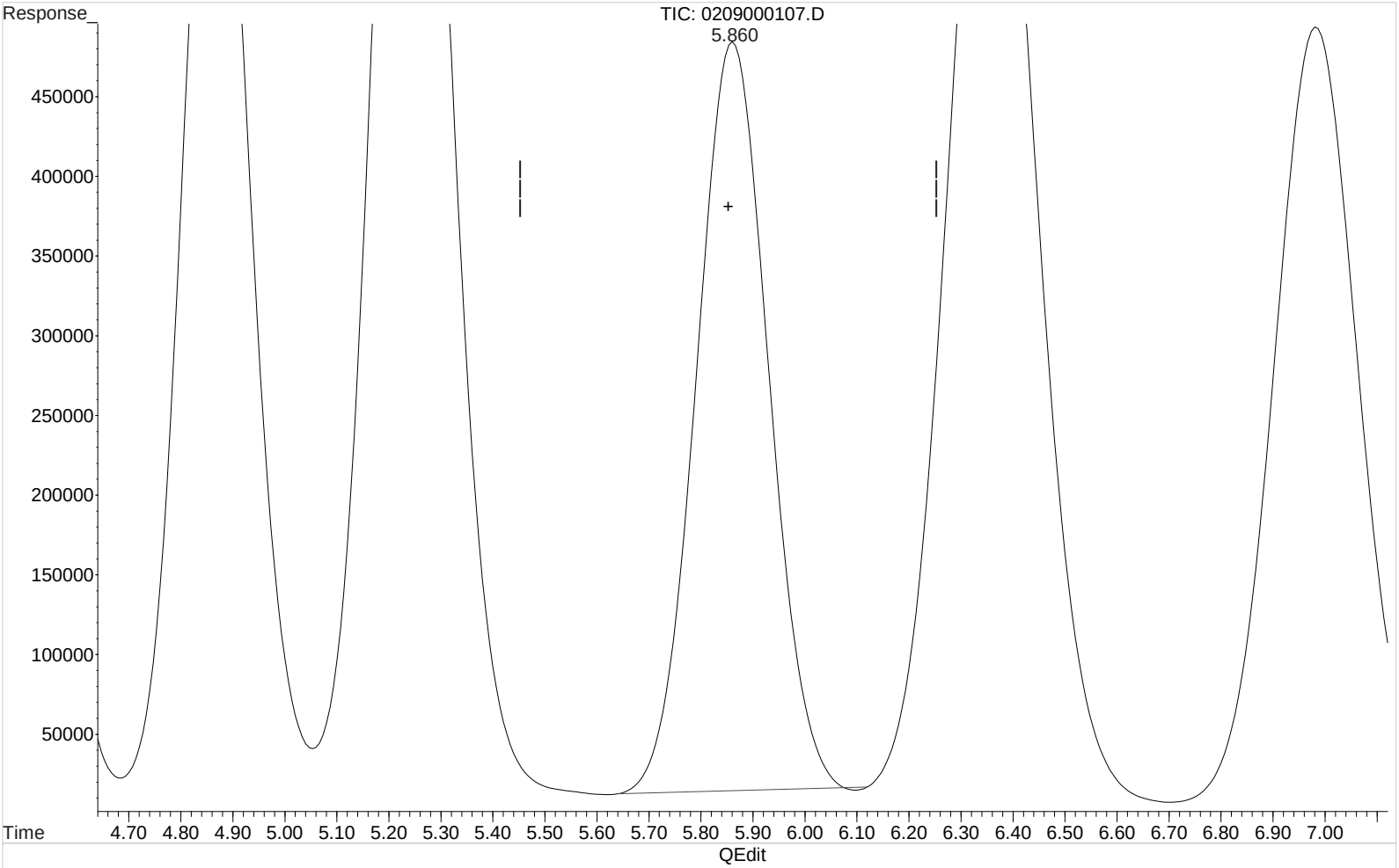
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.860min 193.337 ug/L

response 4561182

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

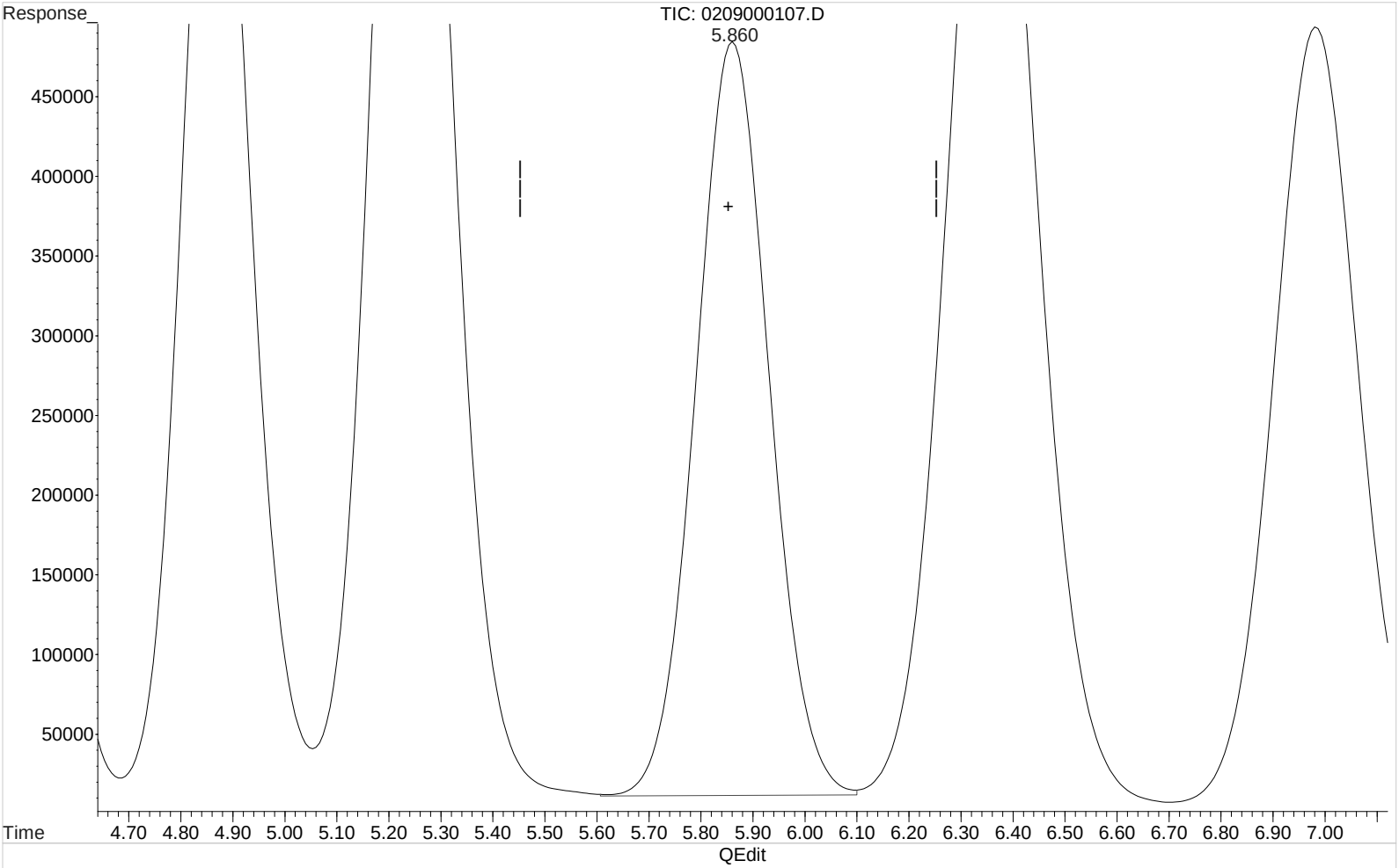
Quantitation Report (Qedit)

(b) (6)
1st 02/13/17
2n 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.860min 196.985 ug/L m

response 4647246

Manual Integration:

After

BLC

02/13/17

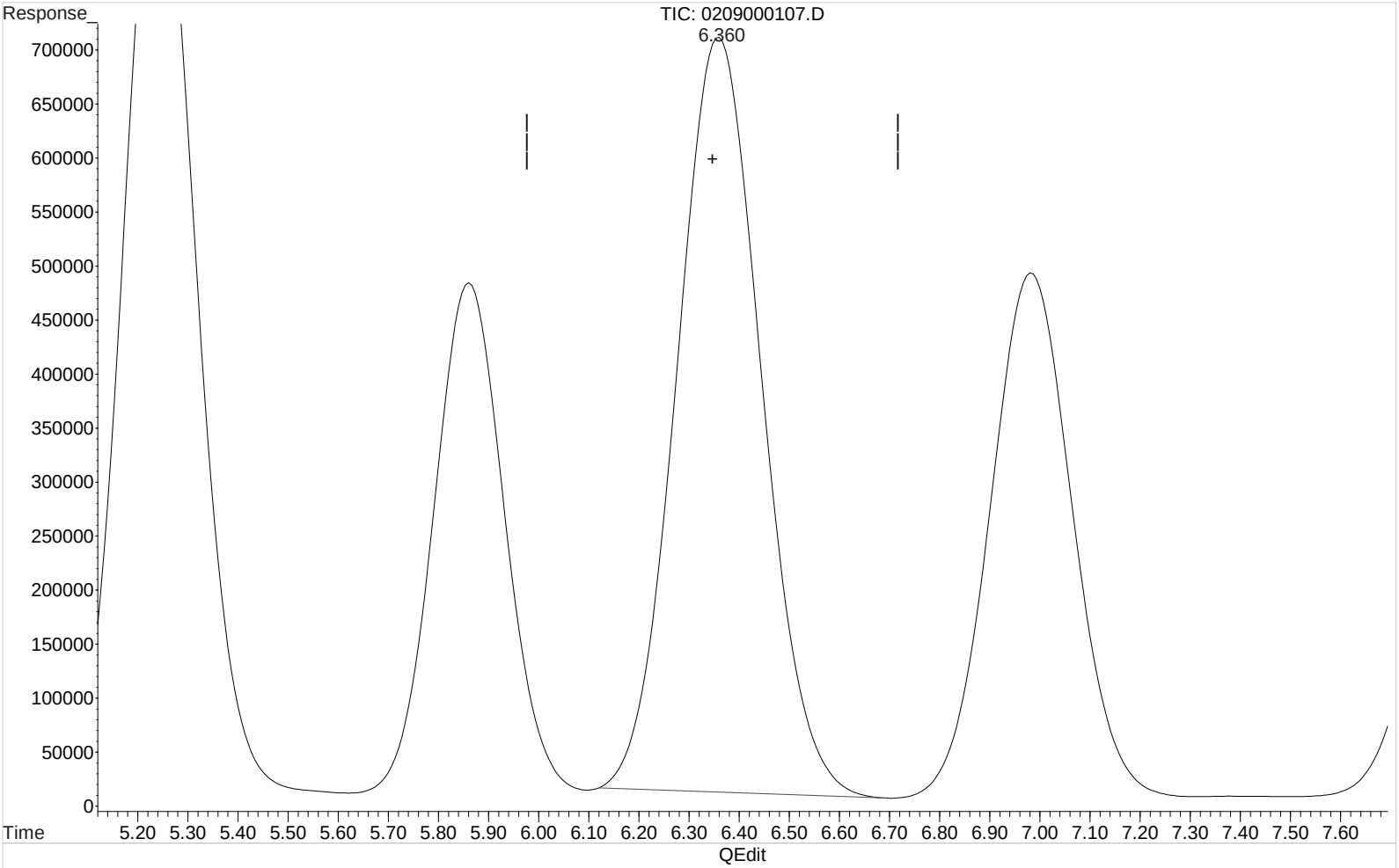
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(7) 2-Amino-4,6-DNT (T)

6.360min 197.248 ug/L

response 8226412

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

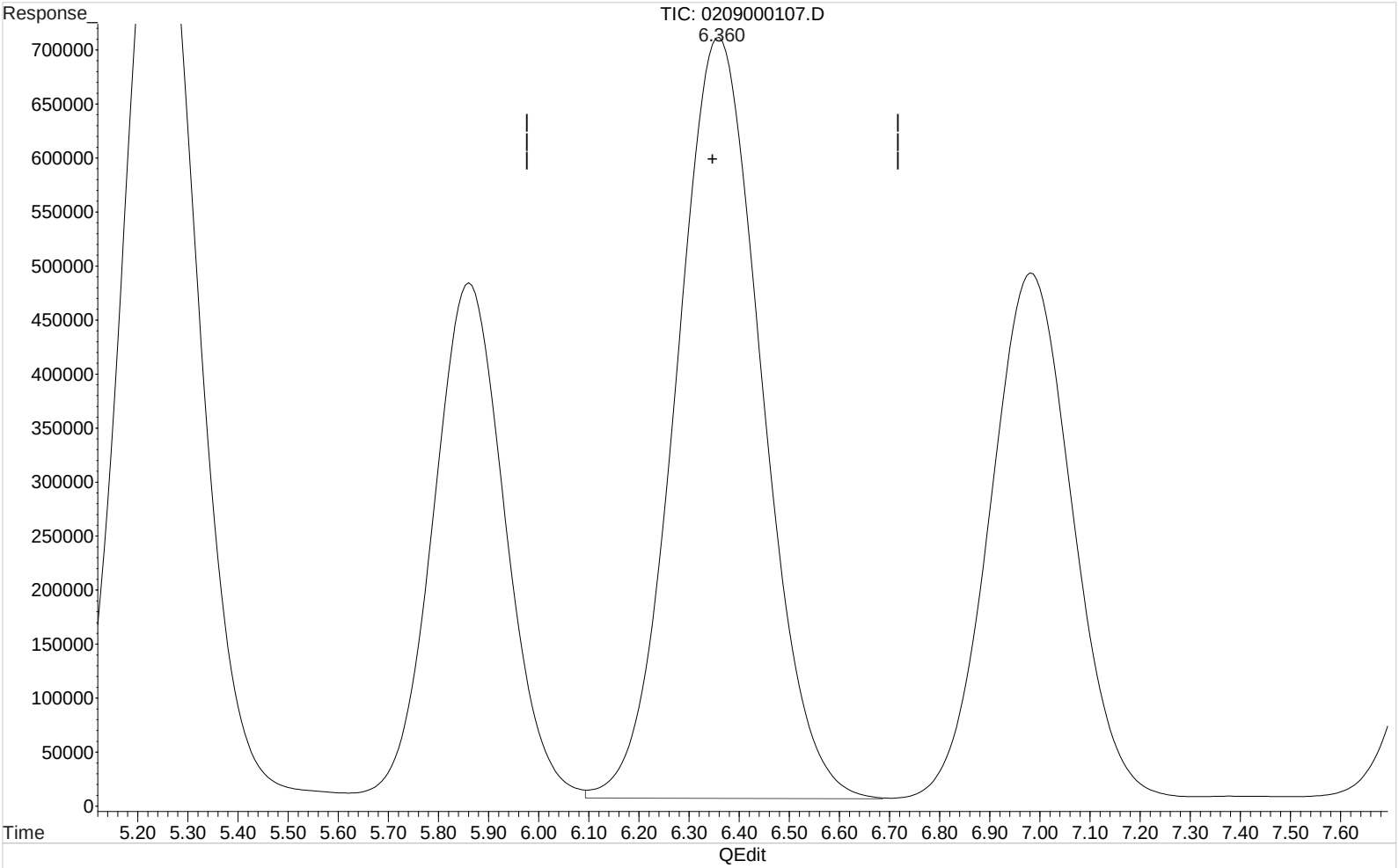
Quantitation Report (Qedit)

1st (b)(6) 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(7) 2-Amino-4,6-DNT (T)

6.360min 201.757 ug/L m

response 8414458

Manual Integration:

After

BLC

02/13/17

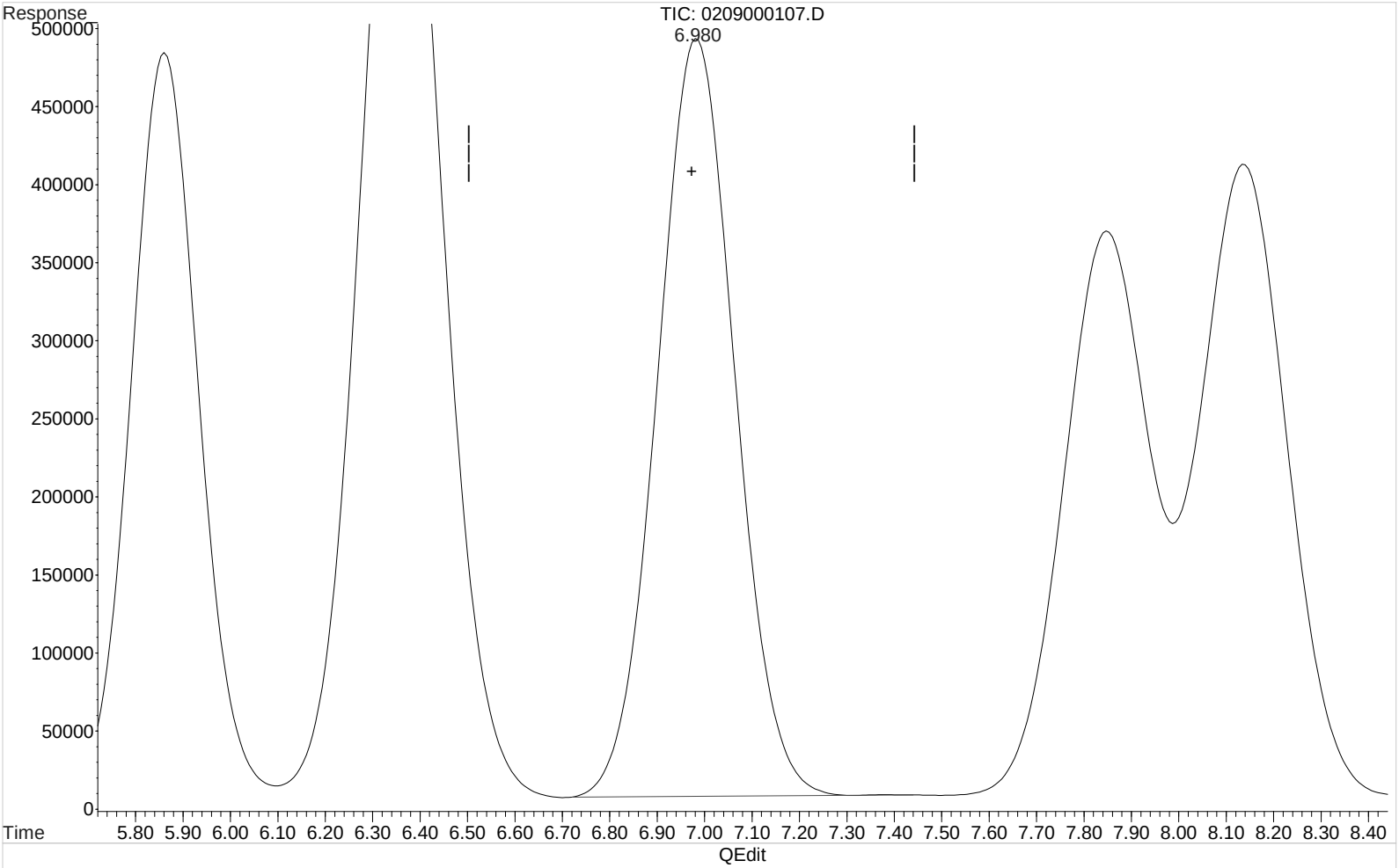
(+) = Expected Retention Time

1st (b)(6) 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(8) 3-NT (T)

6.980min 198.747 ug/L

response 5525861

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

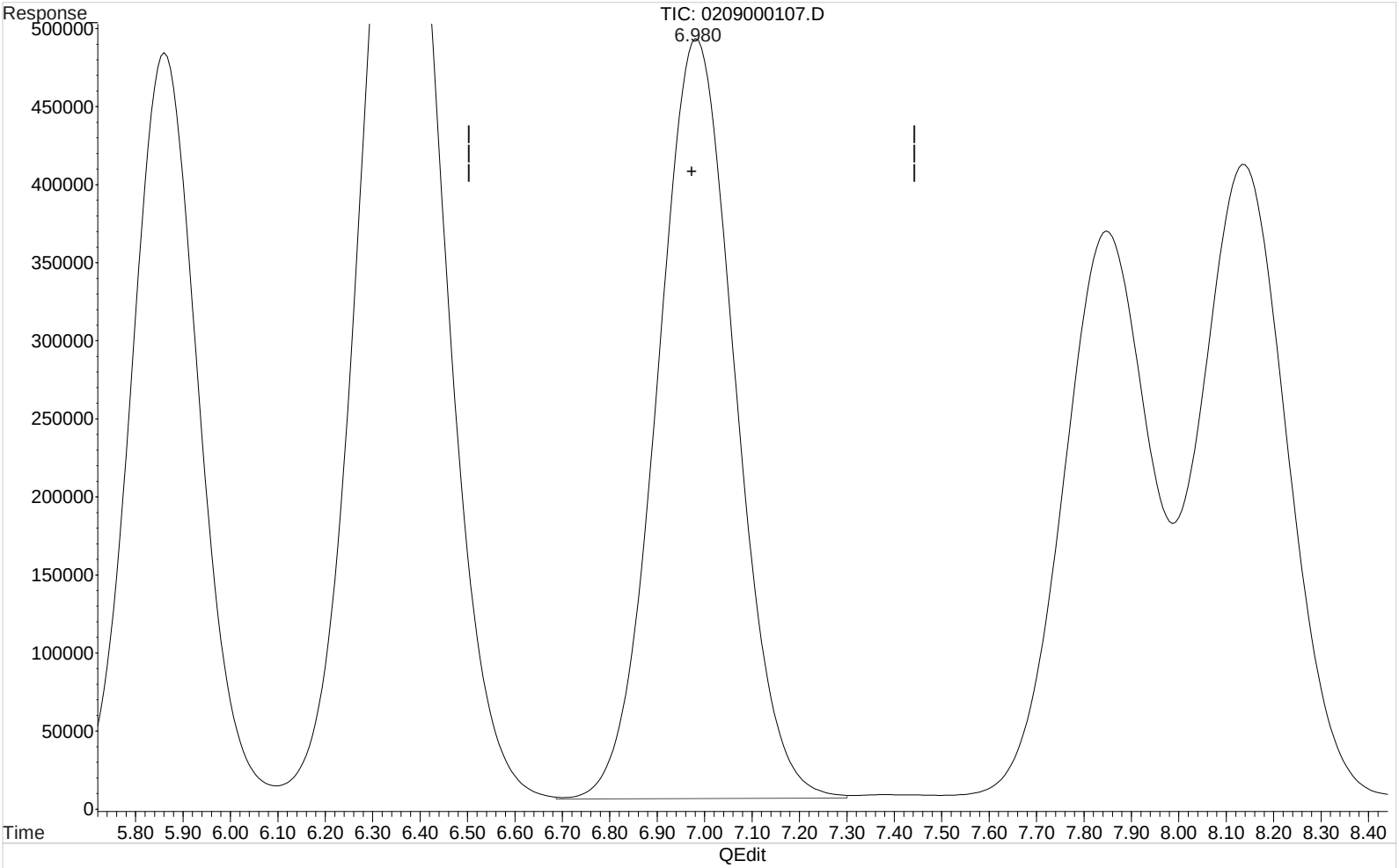
Quantitation Report (Qedit)

1st (b)(6) 02/13/17
2nd [redacted] 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(8) 3-NT (T)

6.980min 200.643 ug/L m

response 5578596

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:00:13 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
11)	S	1-Chloro-3-Nitrobenzene	8.153	13230585	502.803	ug/L	m
		Target Compounds					
1)	T	HMX	2.560	7981926	511.454	ug/L	m
2)	T	RDX	2.807	9178077	515.685	ug/L	m
3)	T	Nitrobenzene	4.493	18916422	512.854	ug/L	m
4)	T	3,5-Dinitroaniline	5.253	23535159	511.057	ug/L	m
5)	T	4-Amino-2,6-DNT	4.880	16219825	516.408	ug/L	m
6)	T	2-NT	5.873	11974356	509.102	ug/L	m
7)	T	2-Amino-4,6-DNT	6.373	21311094	513.240	ug/L	m
8)	T	3-NT	6.993	14136686	510.173	ug/L	
9)	T	1,3-DNB	9.147	28581861	520.162	ug/L	
10)	T	4-NT	7.860	11759716	519.059	ug/L	m
12)	T	2,6-DNT	8.833	12553164	514.394	ug/L	m
13)	T	2,4-DNT	14.840	25979956	514.609	ug/L	
14)	T	Tetryl	13.020	14255446	487.896	ug/L	m
15)	T	1,3,5-TNB	19.840	21117484	516.366	ug/L	
16)	T	2,4,6-TNT	20.820	19559701	508.406	ug/L	

(f)=RT Delta > 1/2 Window (m)=manual int.

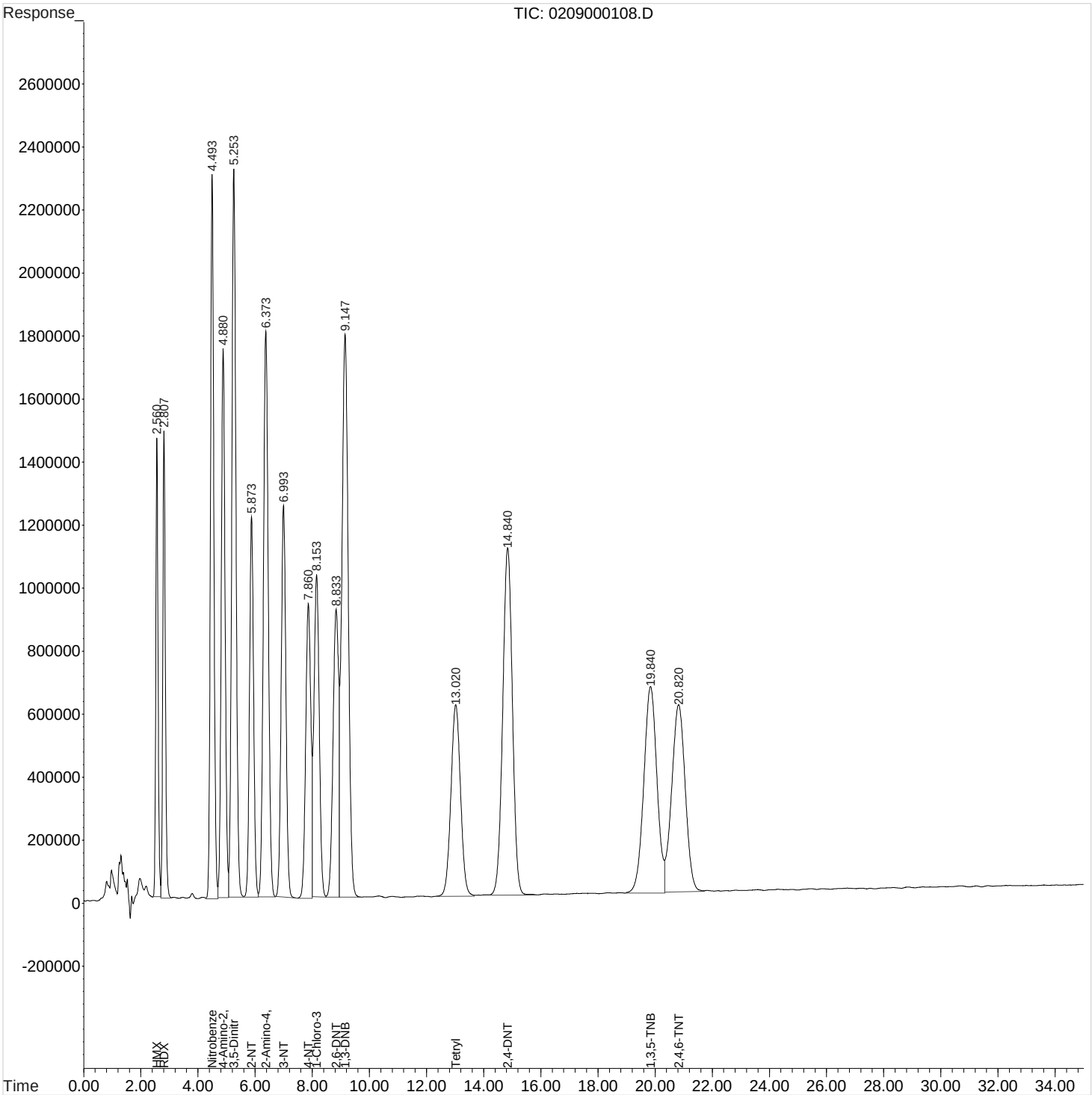
Quantitation Report (QT Reviewed)

(b)(6) 1st 02/13/17 2n 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:00:13 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

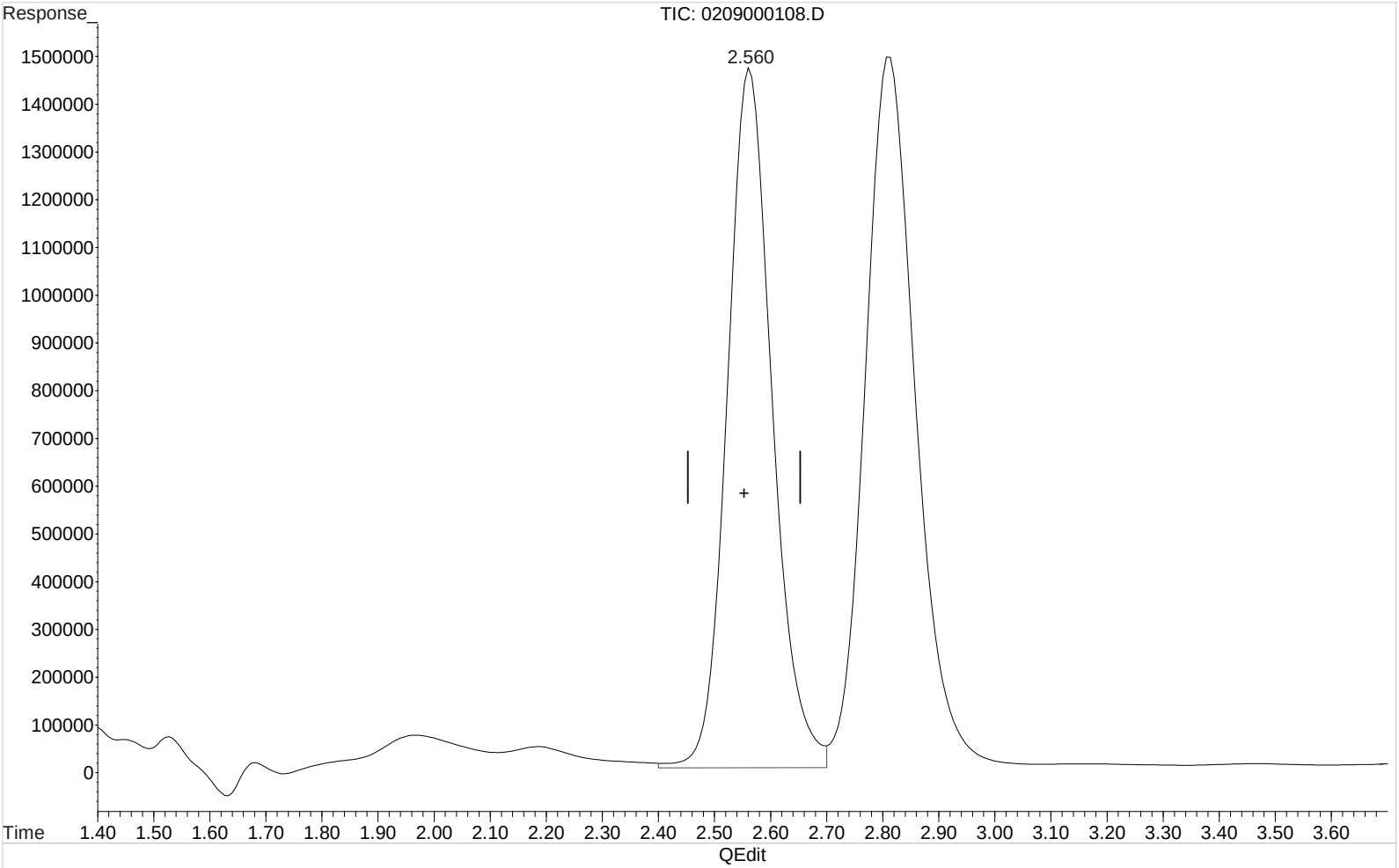


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.560min 523.210 ug/L

response 8165394

Manual Integration:

Before

02/13/17

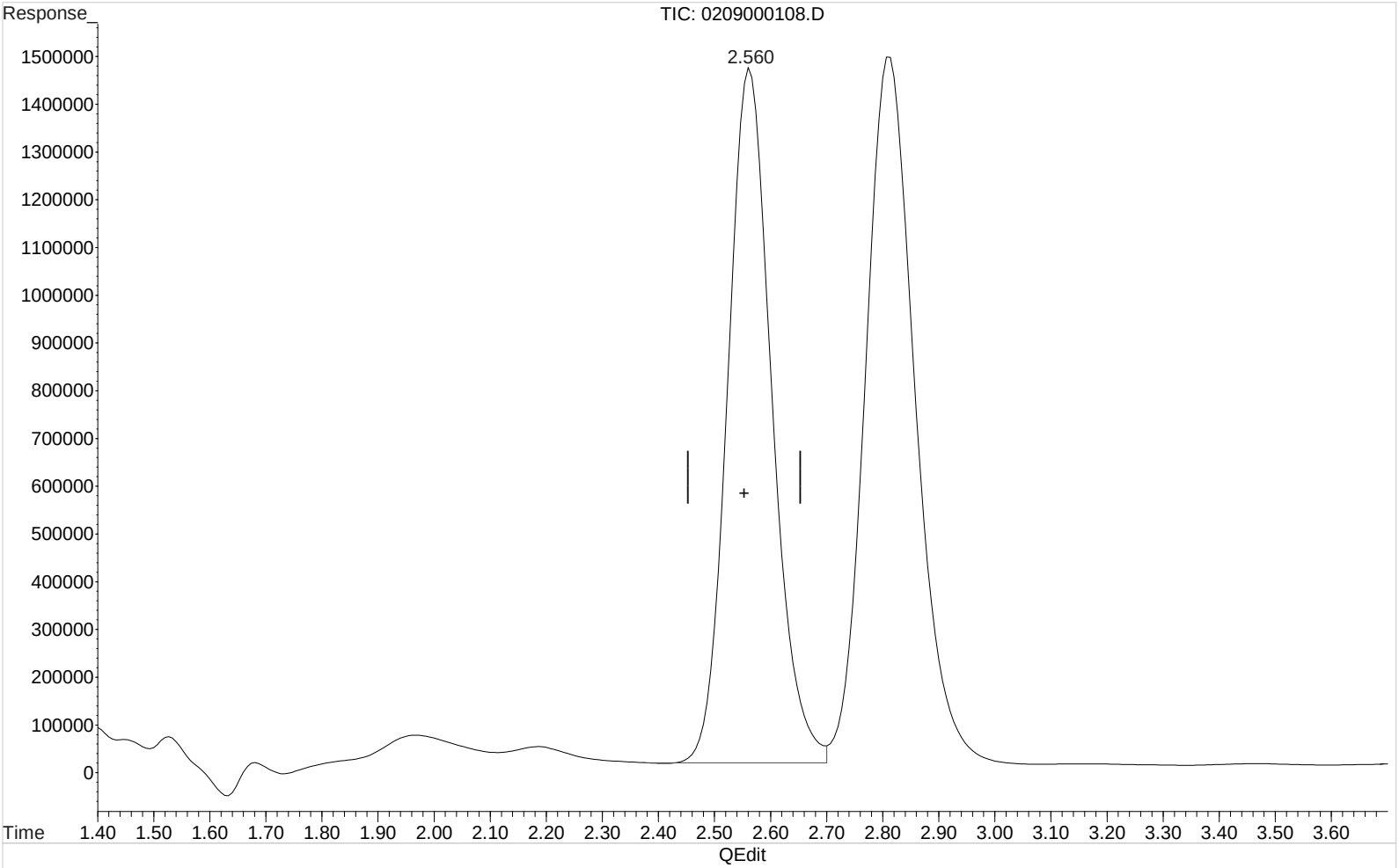
(+) = Expected Retention Time

(b) (6)
1st 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.560min 511.454 ug/L m

response 7981926

Manual Integration:

After

BLC

02/13/17

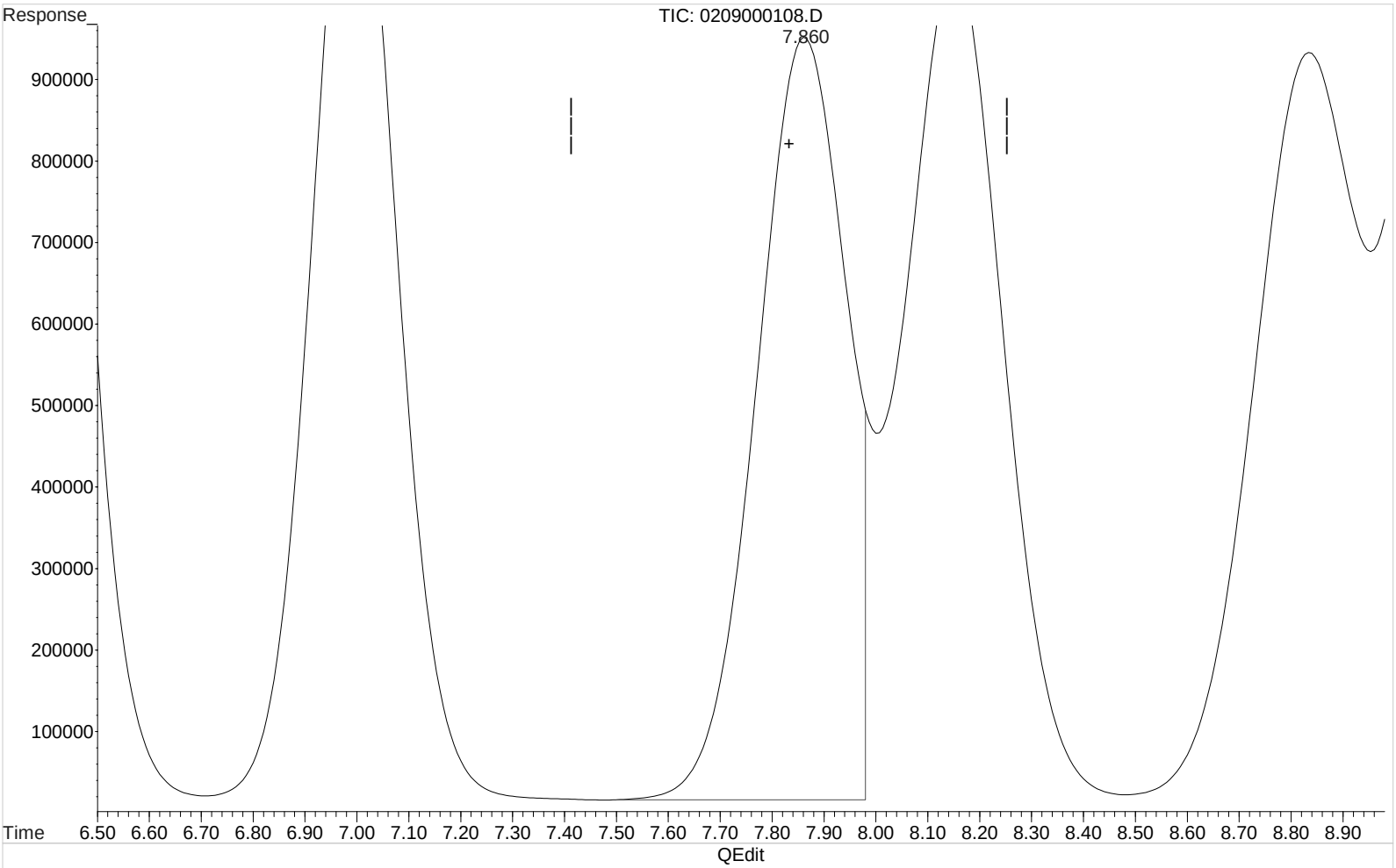
(+) = Expected Retention Time

(b) (6)
1st 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.860min 494.354 ug/L

response 11200008

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

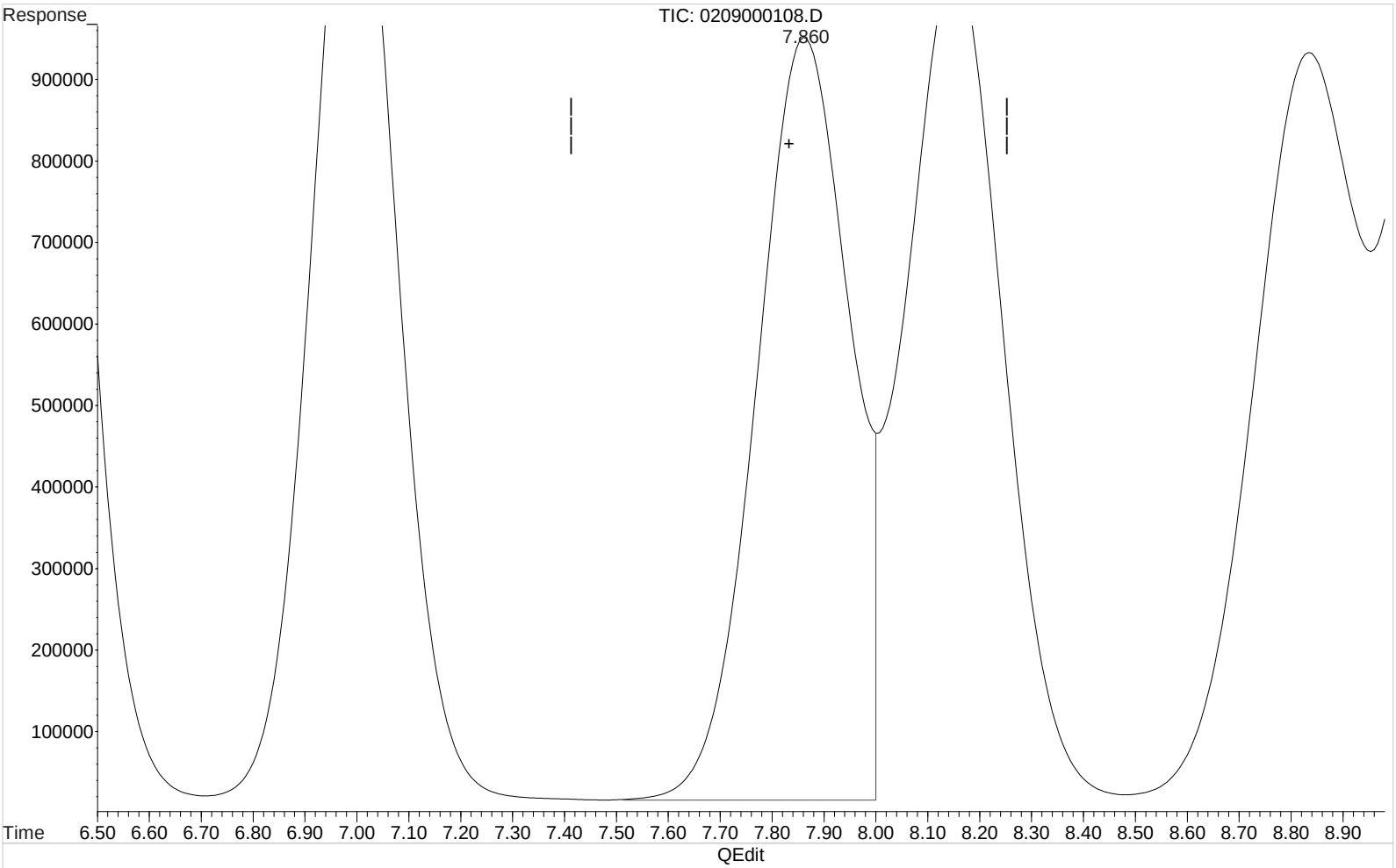
Quantitation Report (Qedit)

(b)
(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.860min 519.059 ug/L m

response 11759716

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b) (6)

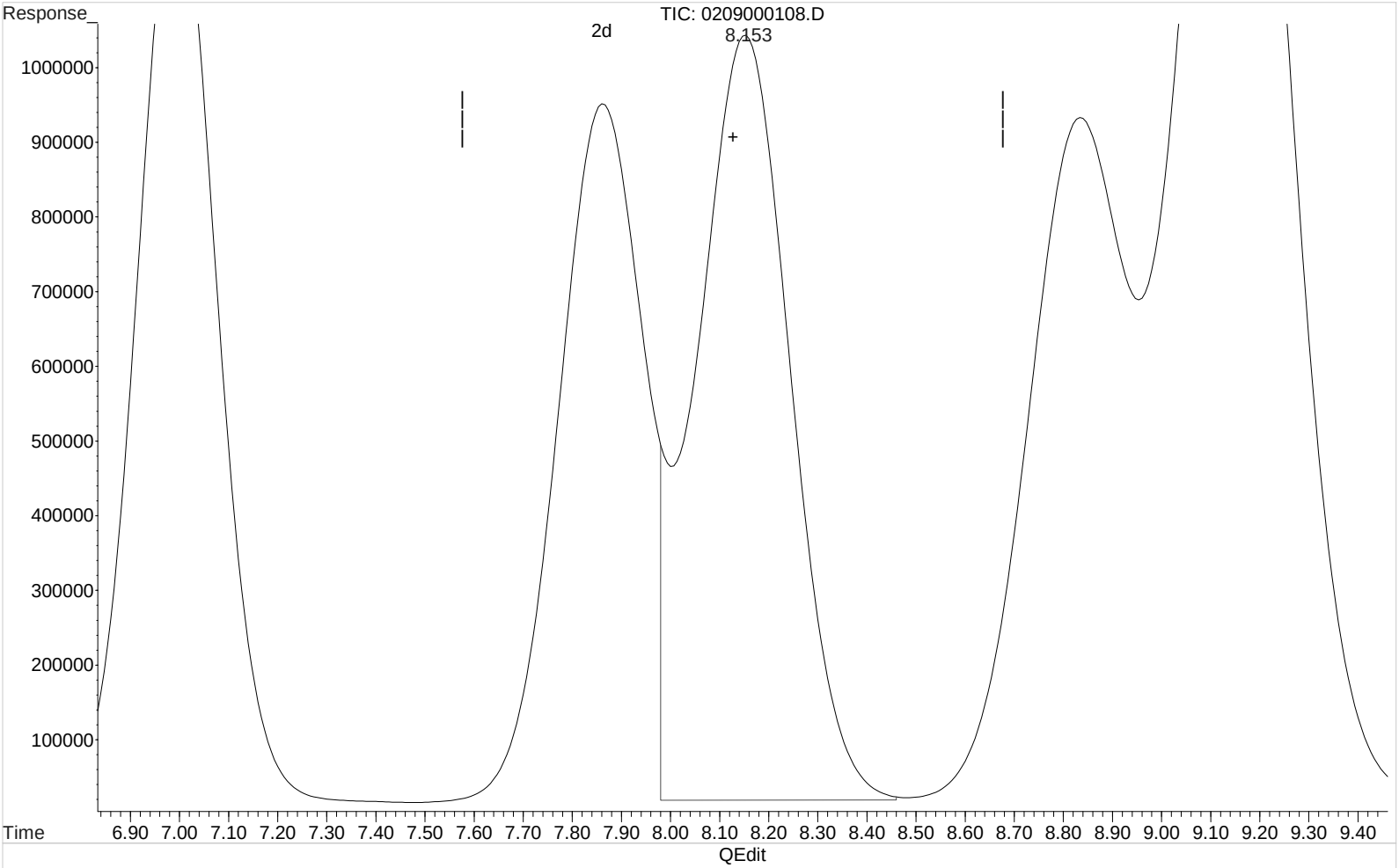
1st 02/13/17

2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(11) 1-Chloro-3-Nitrobenzene (S)

8.153min 524.076 ug/L

response 13790355

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

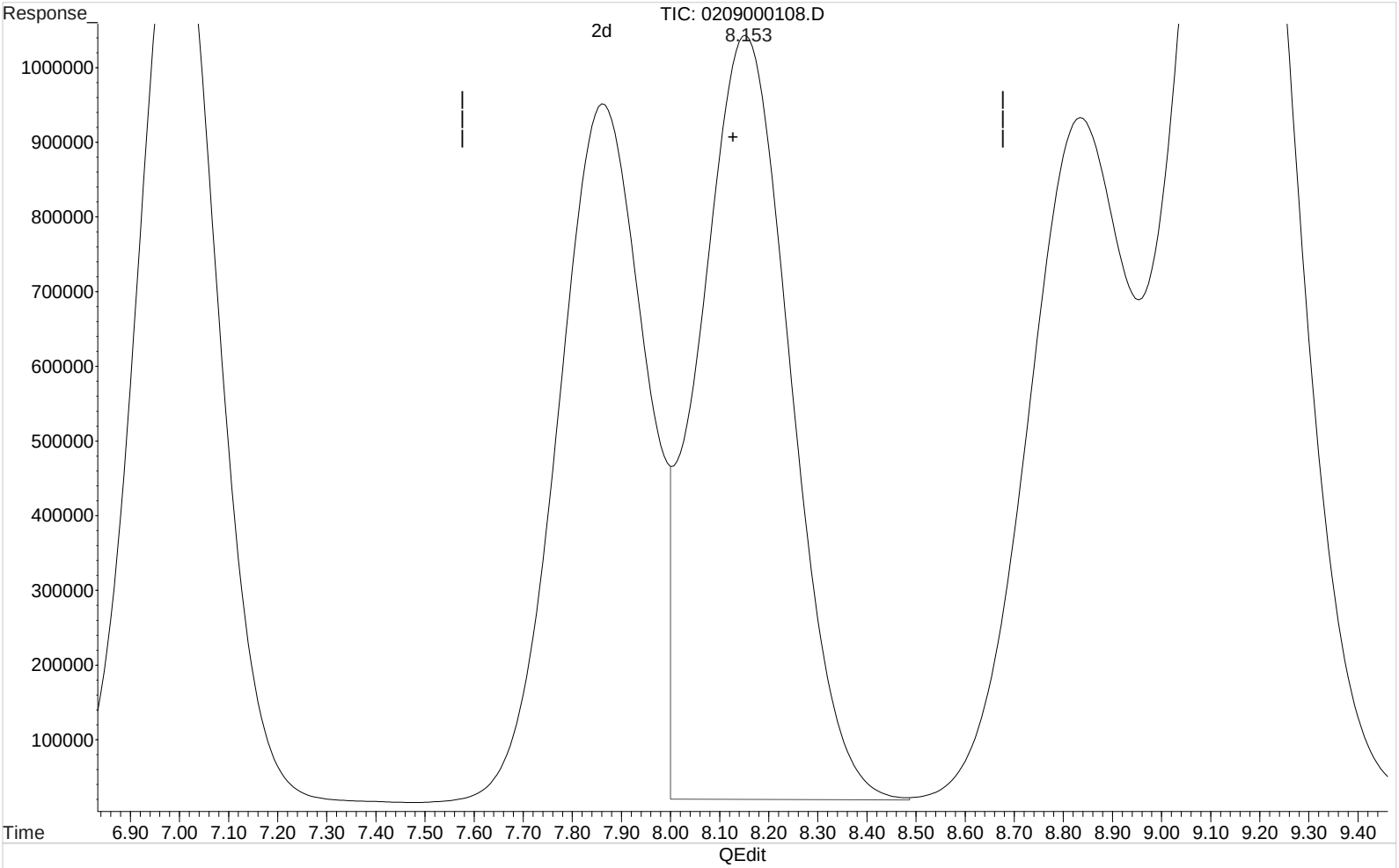
Quantitation Report (Qedit)

1st (b) (6) 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(11) 1-Chloro-3-Nitrobenzene (S)

8.153min 502.803 ug/L m

response 13230585

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

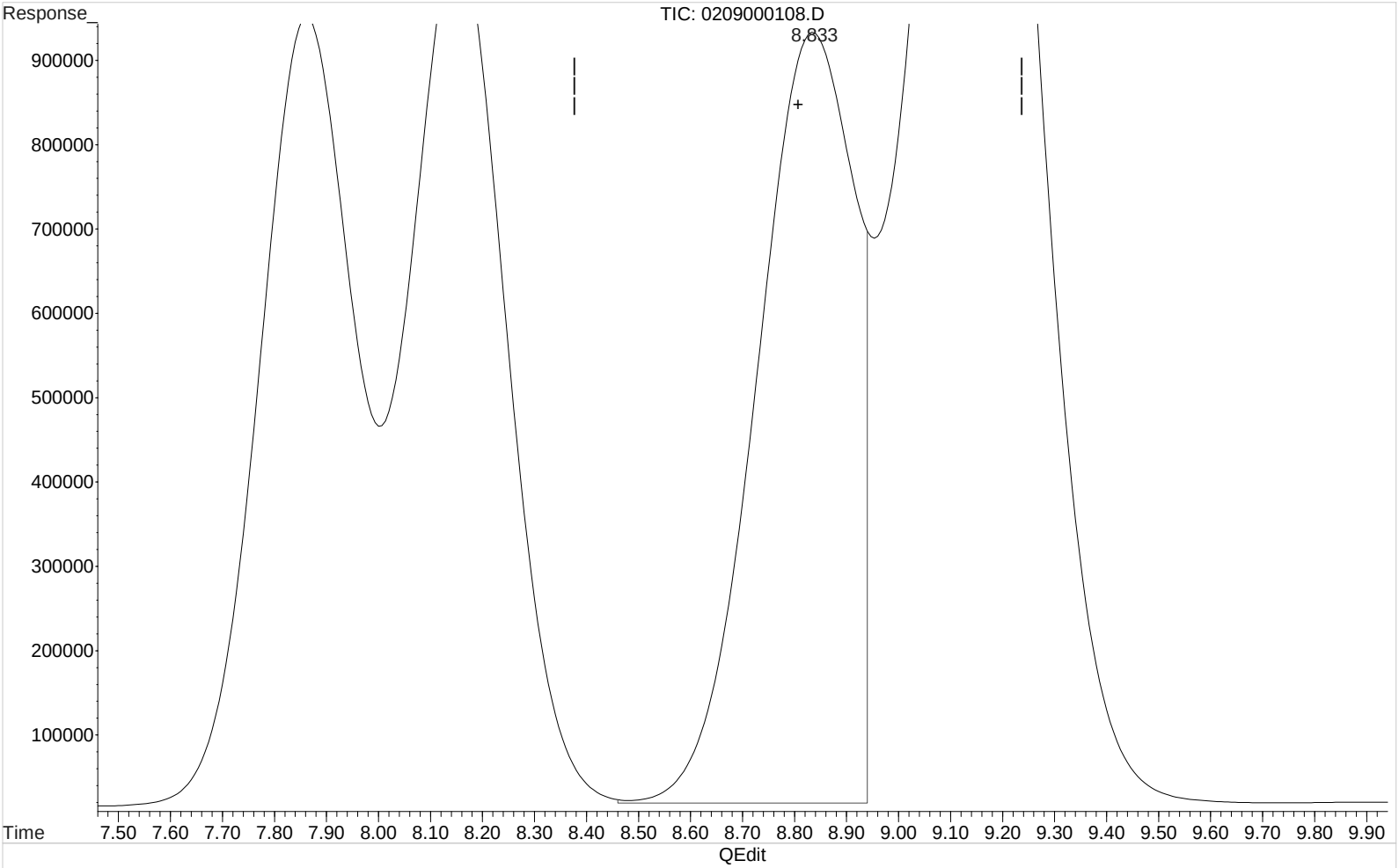
Quantitation Report (Qedit)

(b) (6)
1st [redacted] 02/13/17
2nd [redacted] 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(12) 2,6-DNT (T)

8.833min 492.505 ug/L

response 12018989

Manual Integration:

Before

02/13/17

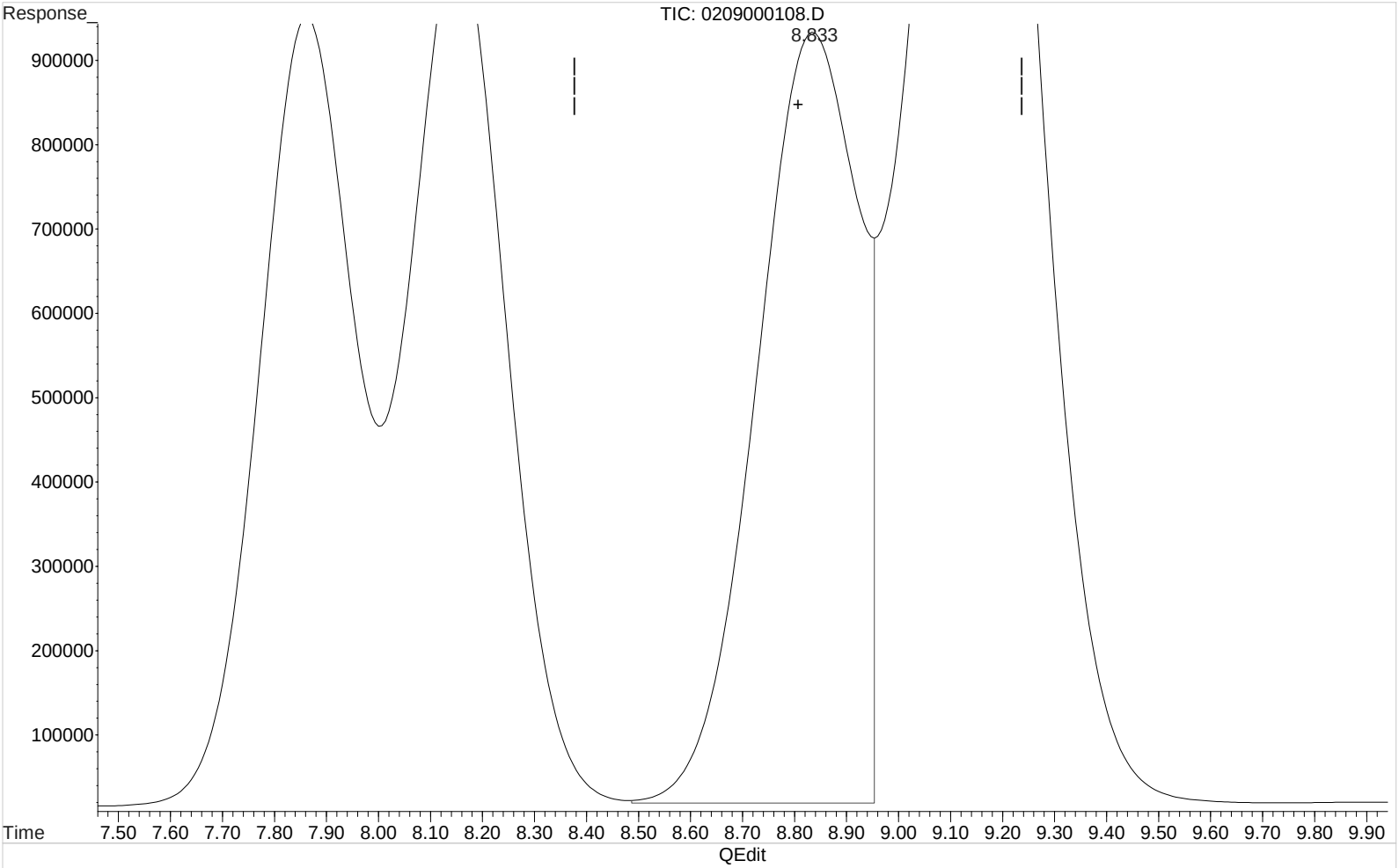
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(12) 2,6-DNT (T)

8.833min 514.394 ug/L m

response 12553164

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

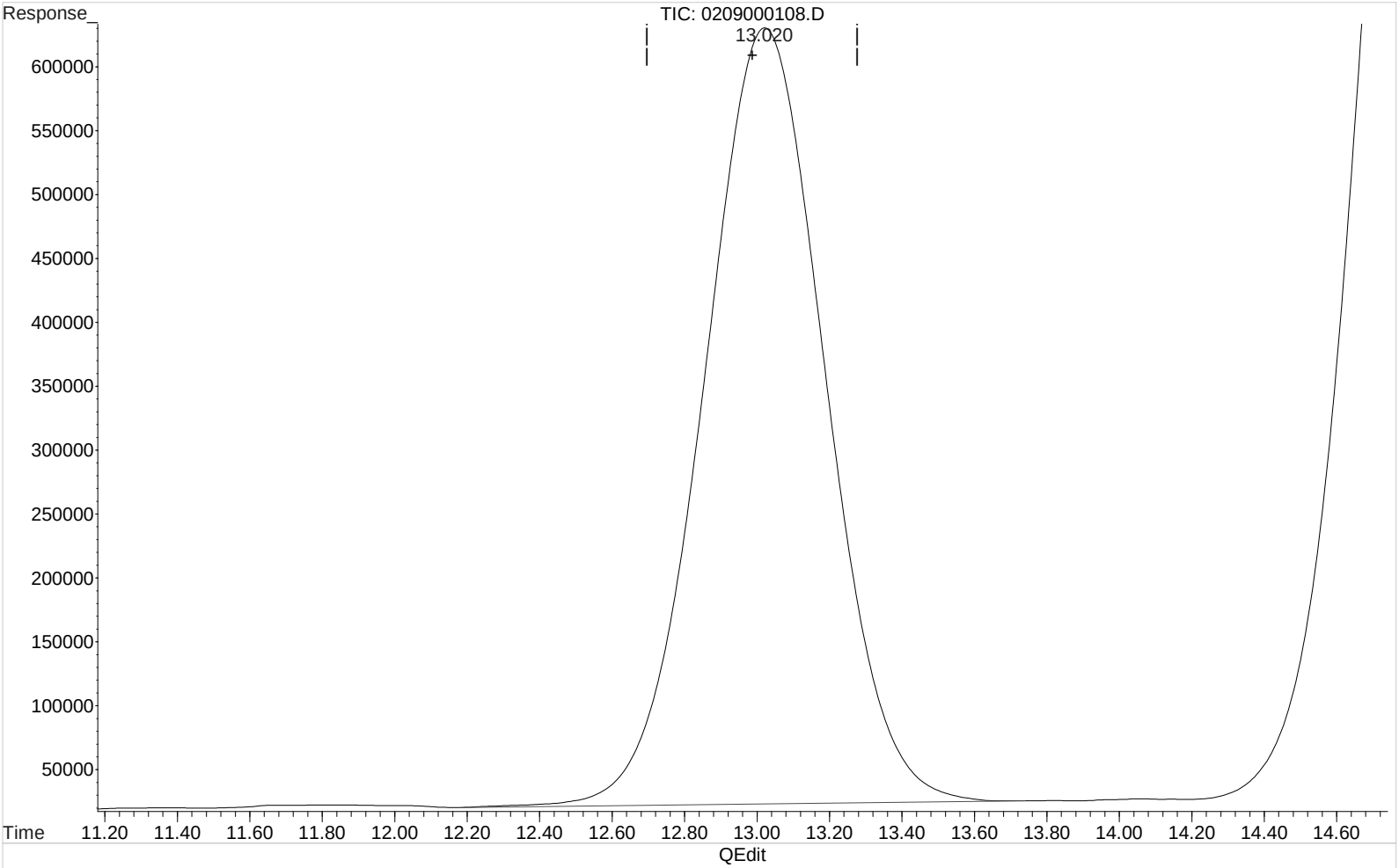
Quantitation Report (Qedit)

(b)(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:59:29 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(14) Tetryl (T)

13.020min 484.451 ug/L

response 14154790

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

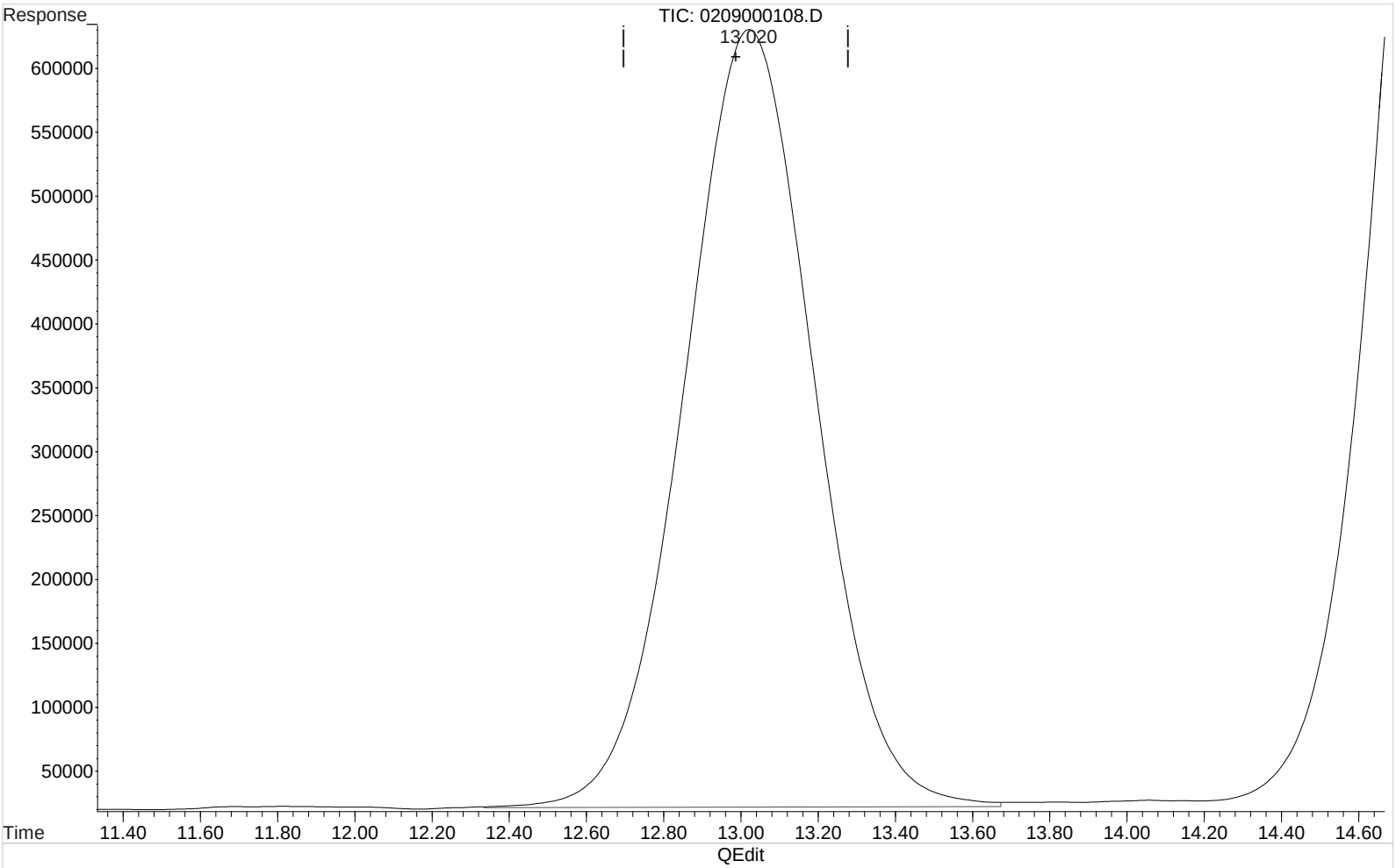
Quantitation Report (Qedit)

(b) (6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:00:13 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(14) Tetryl (T)

13.020min 487.896 ug/L m

response 14255446

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

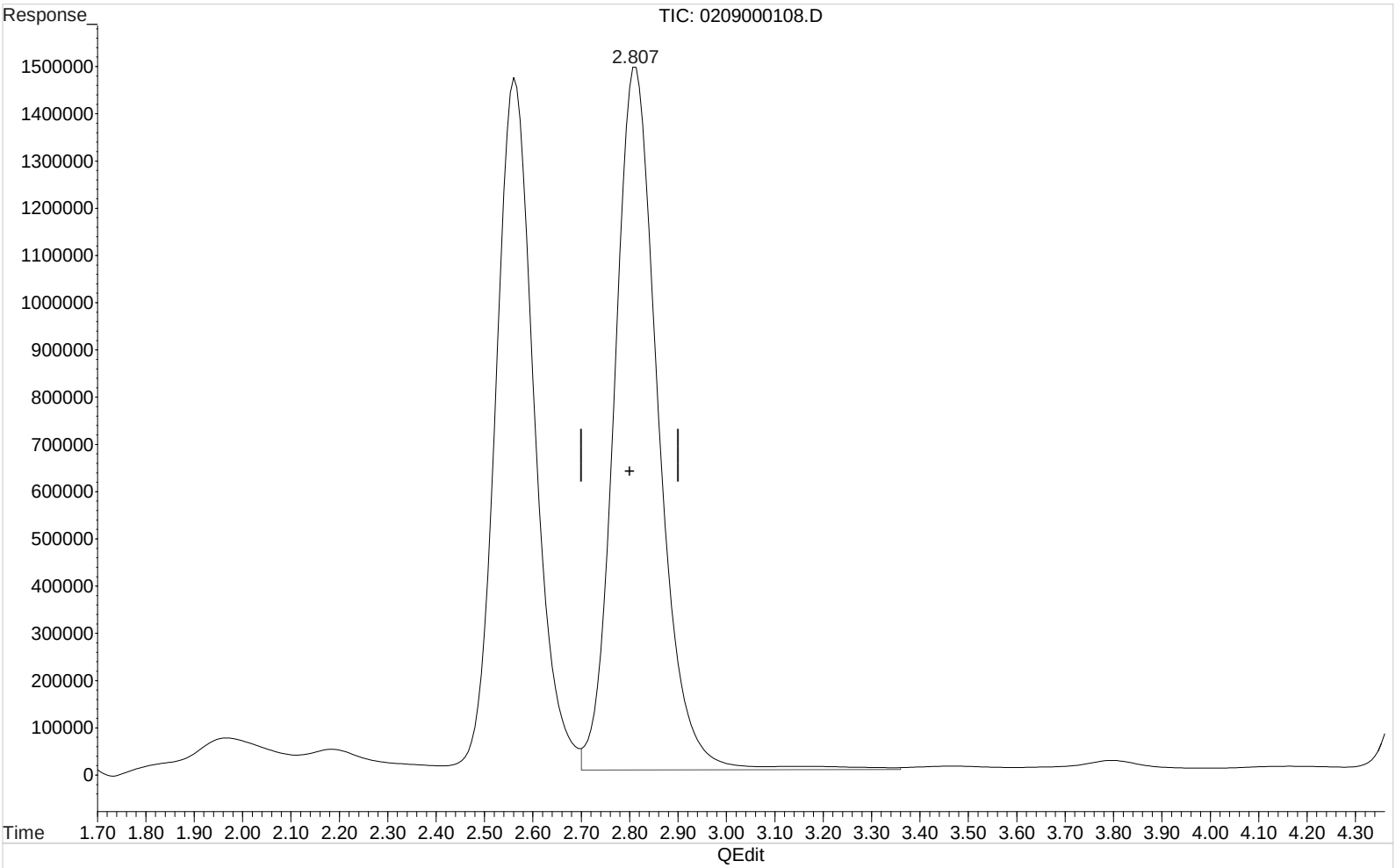
Quantitation Report (Qedit)

(b) (6)
1st [redacted] 02/13/17
2nd [redacted] 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.807min 528.530 ug/L

response 9406681

Manual Integration:

Before

02/13/17

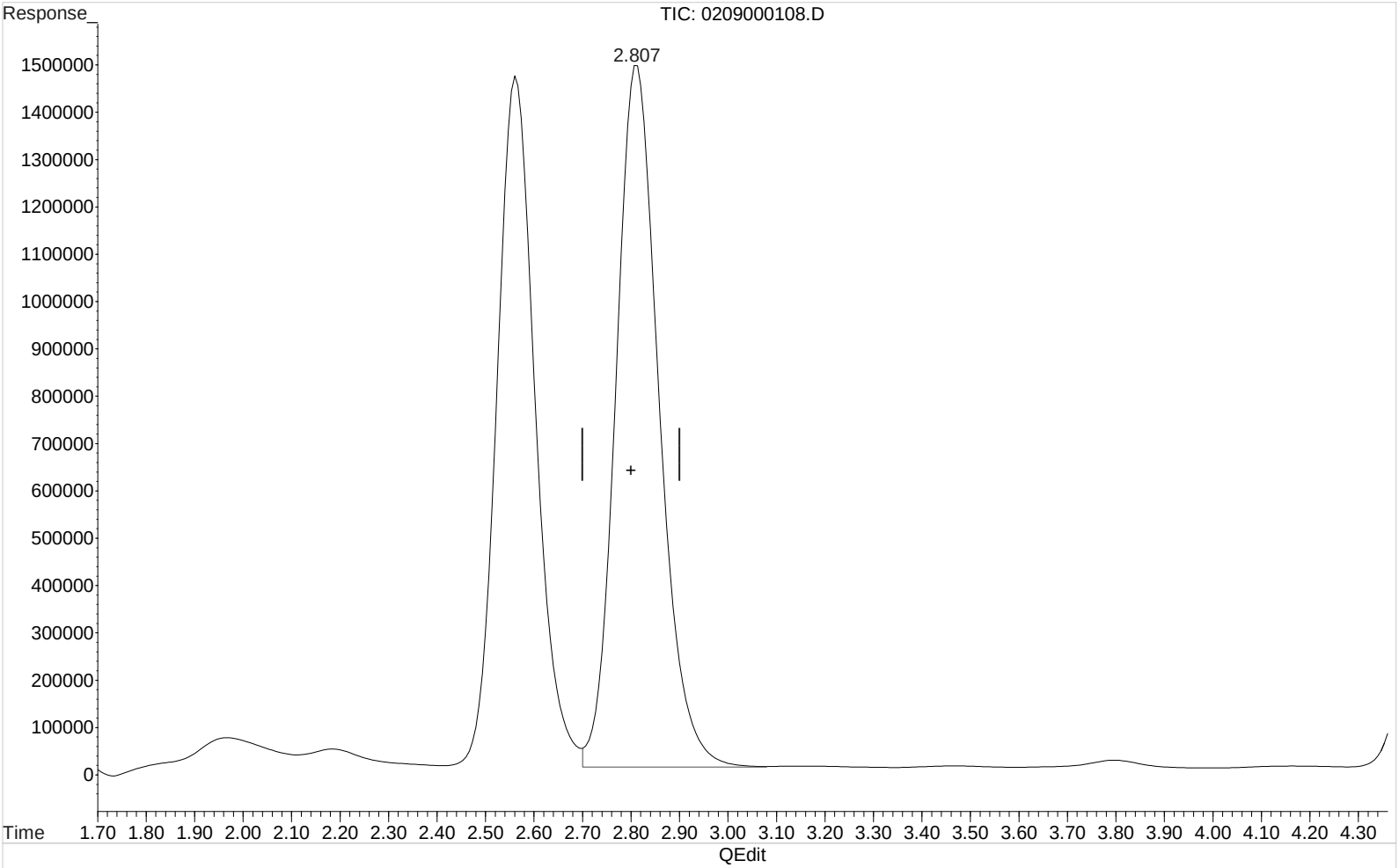
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.807min 515.685 ug/L m

response 9178077

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

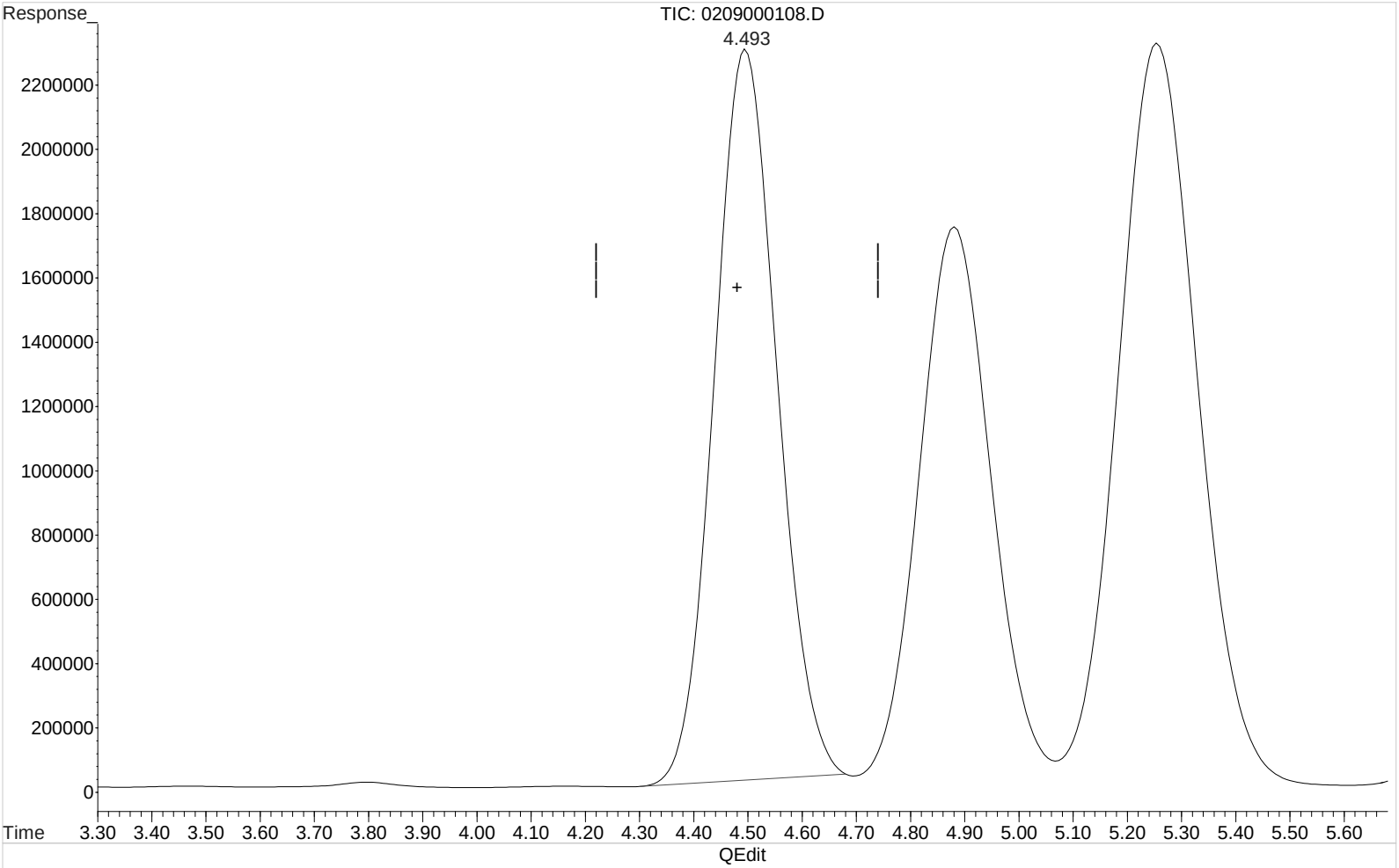
Quantitation Report (Qedit)

(b)(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(3) Nitrobenzene (T)

4.493min 497.348 ug/L

response 18344510

Manual Integration:

Before

02/13/17

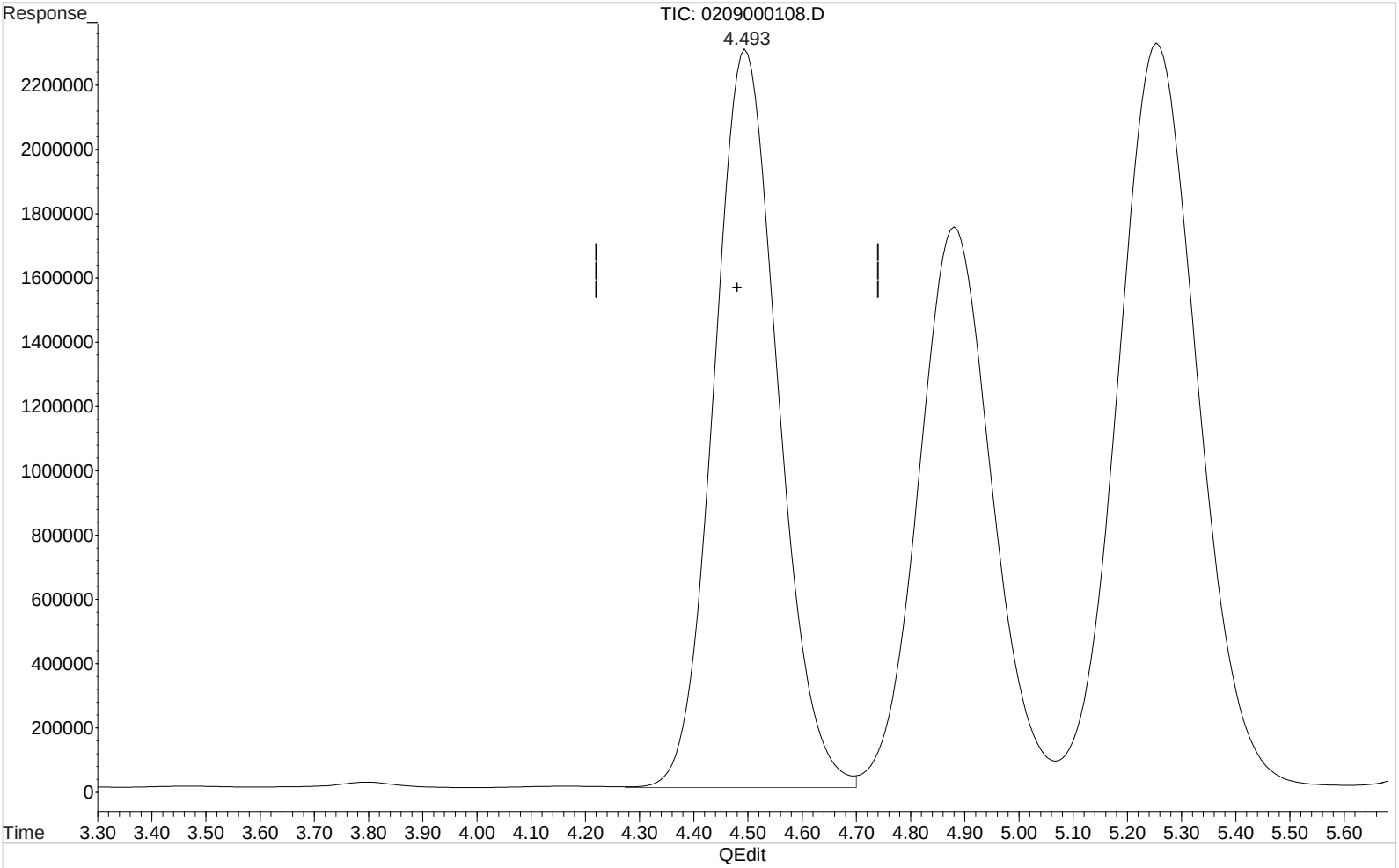
(+) = Expected Retention Time

(b) (6)
1st 02/13/17
2n 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.493min 512.854 ug/L m

response 18916422

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

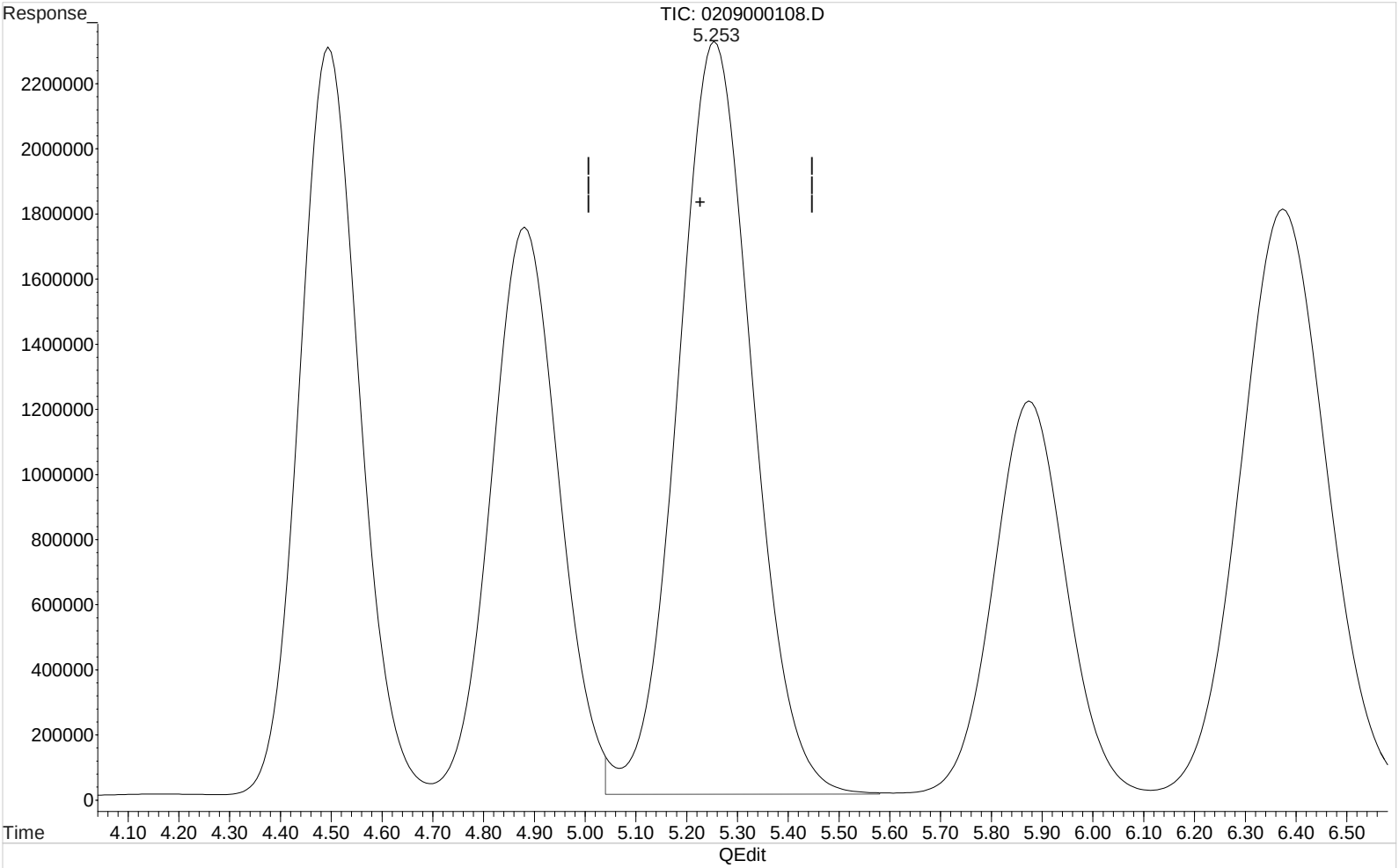
Quantitation Report (Qedit)

(b) (6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(4) 3,5-Dinitroaniline (T)

5.253min 515.473 ug/L

response 23738537

Manual Integration:

Before

02/13/17

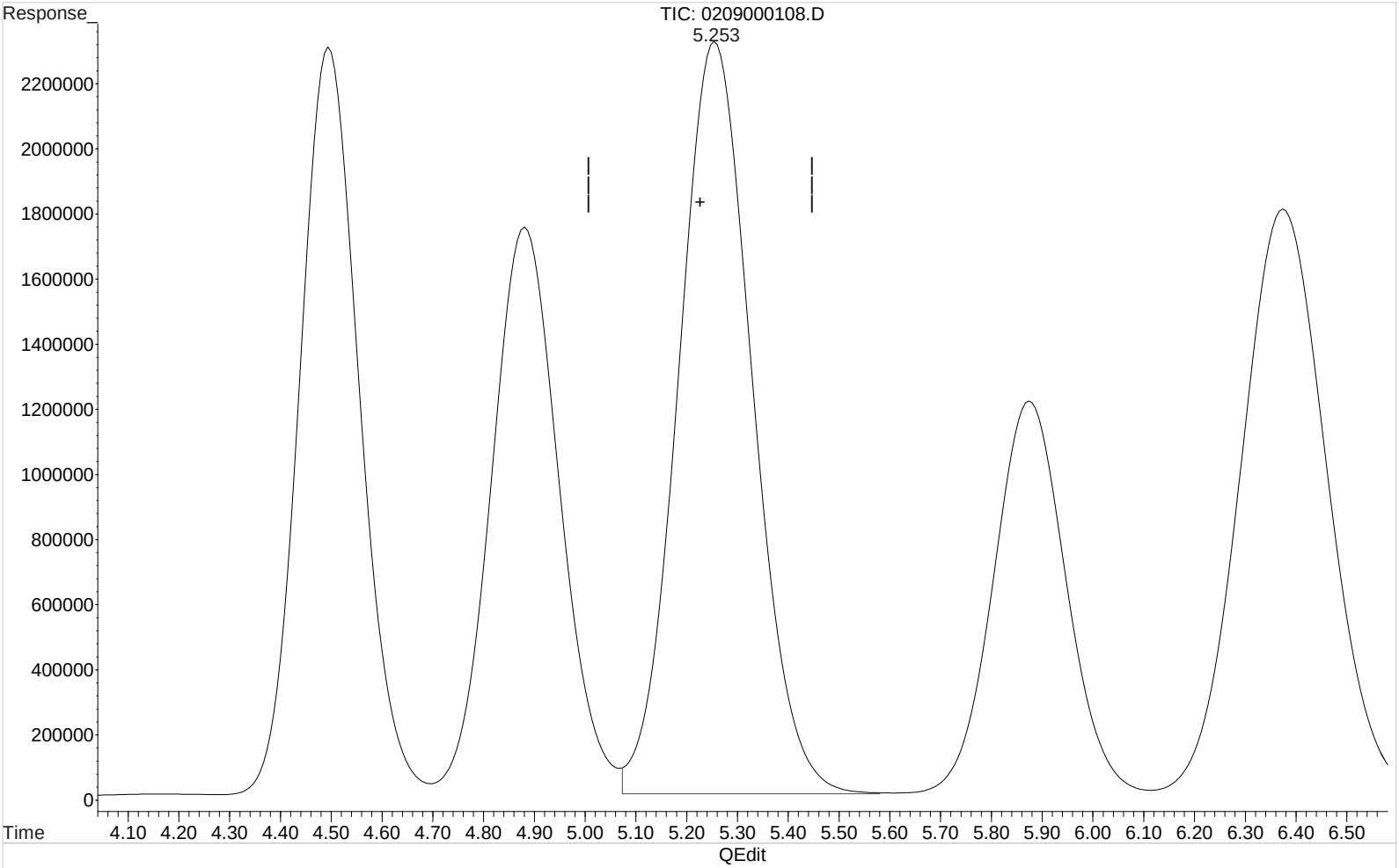
(+) = Expected Retention Time

(b)(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(4) 3,5-Dinitroaniline (T)

5.253min 511.057 ug/L m

response 23535159

Manual Integration:

After

BLC

02/13/17

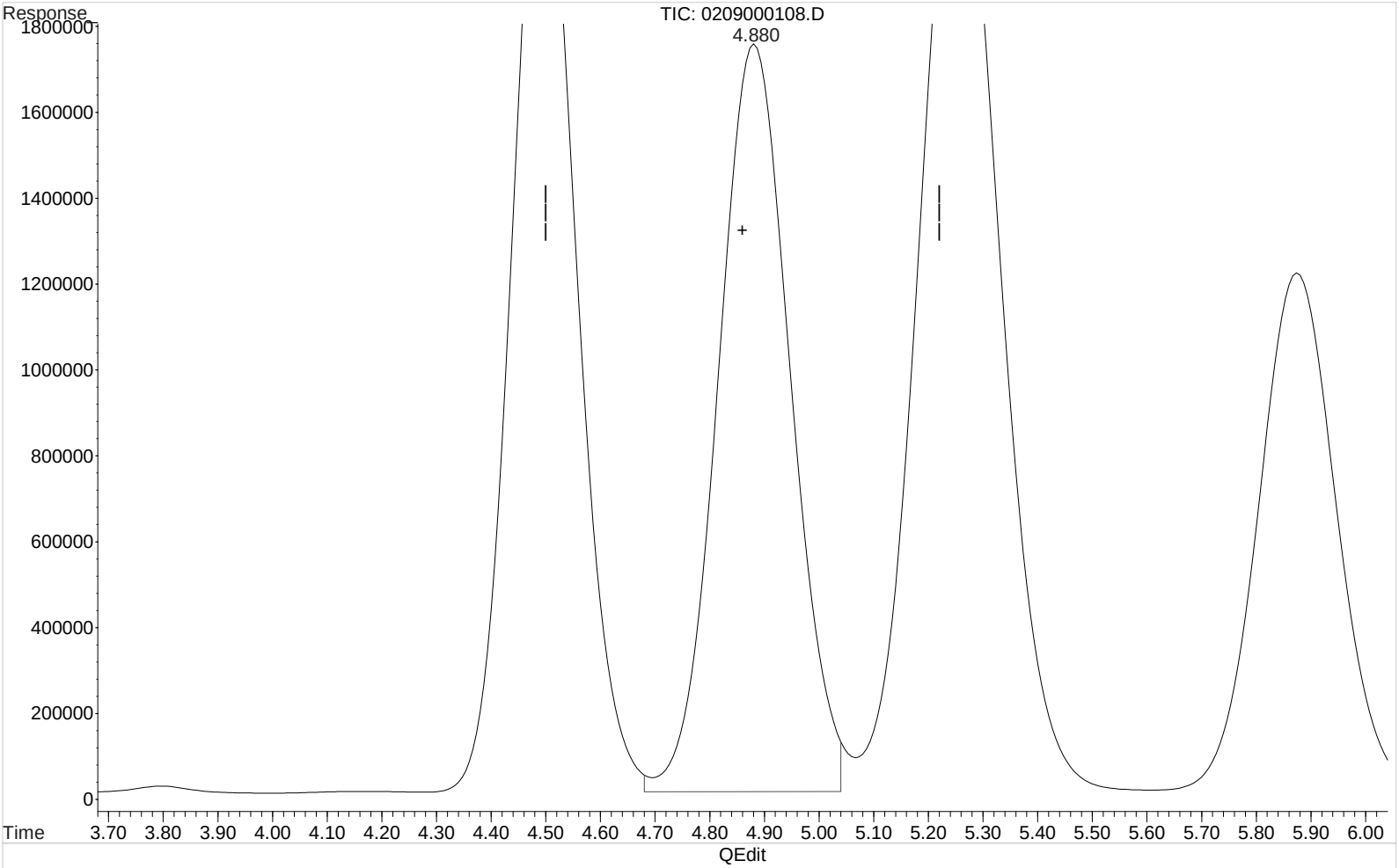
(+) = Expected Retention Time

(b) (6)
1st 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(5) 4-Amino-2,6-DNT (T)

4.880min 512.609 ug/L

response 16100487

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

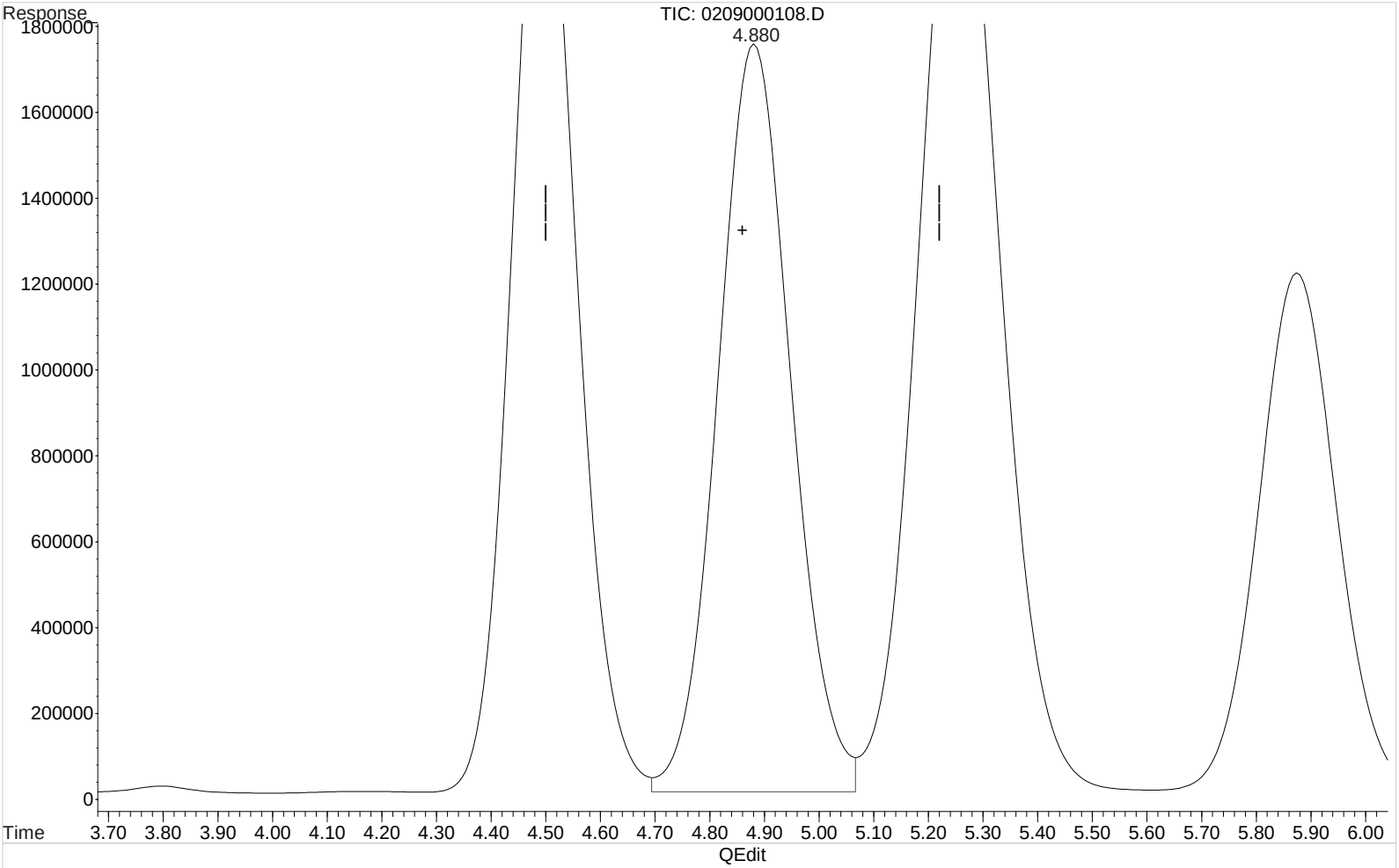
Quantitation Report (Qedit)

(b)
(6)
1st 02/13/17
2n 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(5) 4-Amino-2,6-DNT (T)

4.880min 516.408 ug/L m

response 16219825

Manual Integration:

After

BLC

02/13/17

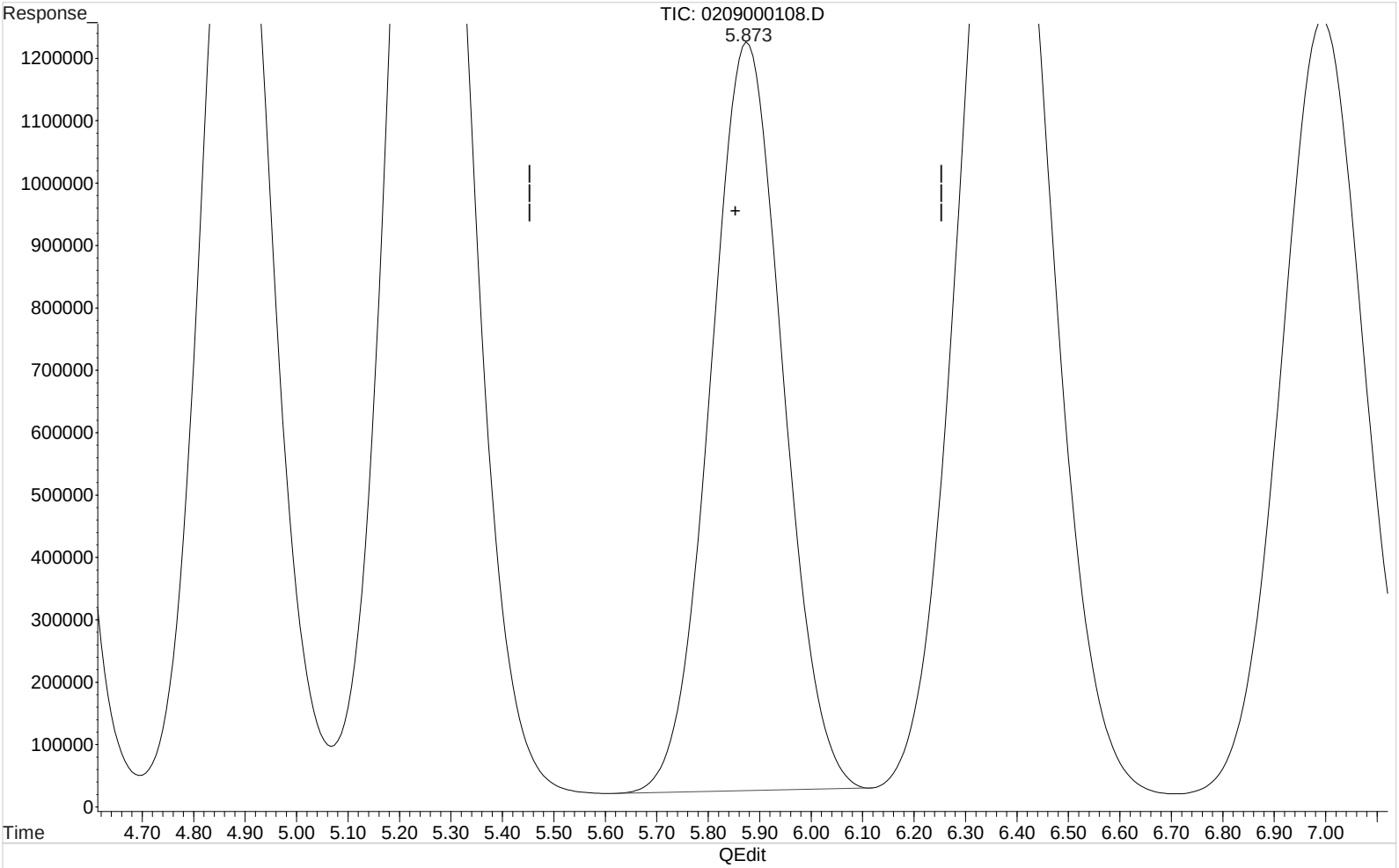
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.873min 500.725 ug/L

response 11777330

Manual Integration:

Before

02/13/17

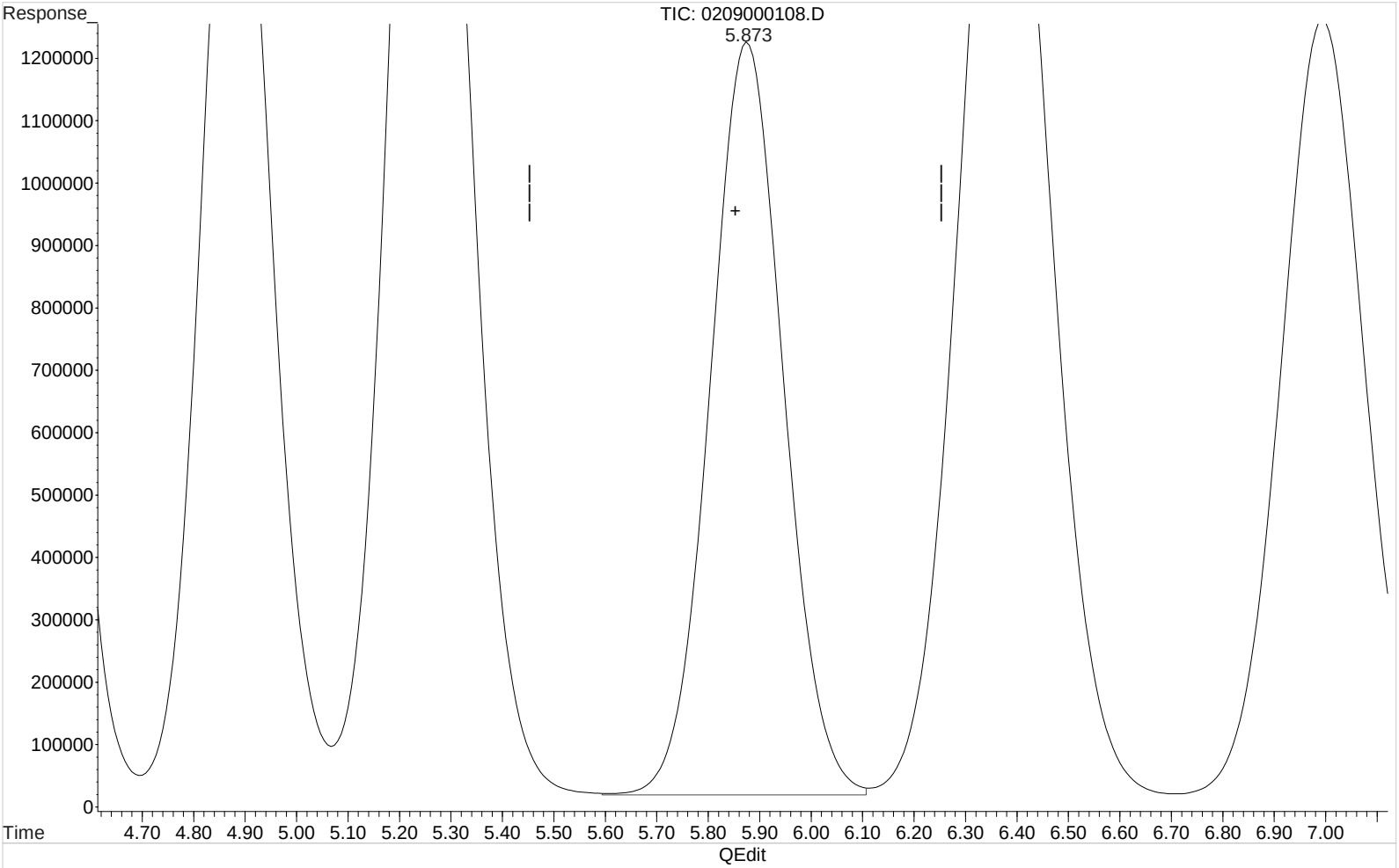
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.873min 509.102 ug/L m

response 11974356

Manual Integration:

After

BLC

02/13/17

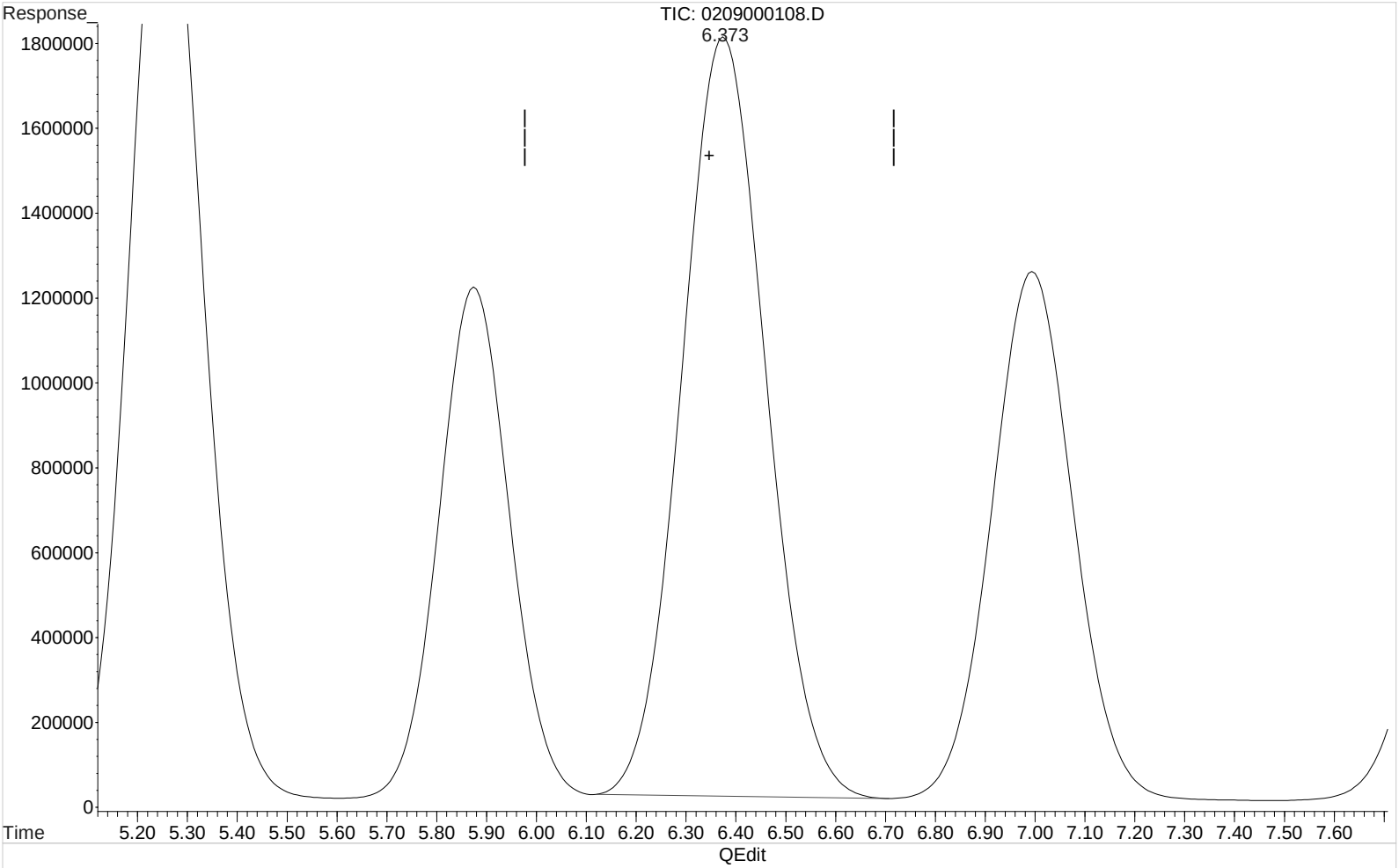
(+) = Expected Retention Time

1st (b) (6) 02/13/17
2nd [redacted] 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.373min 508.092 ug/L

response 21097350

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

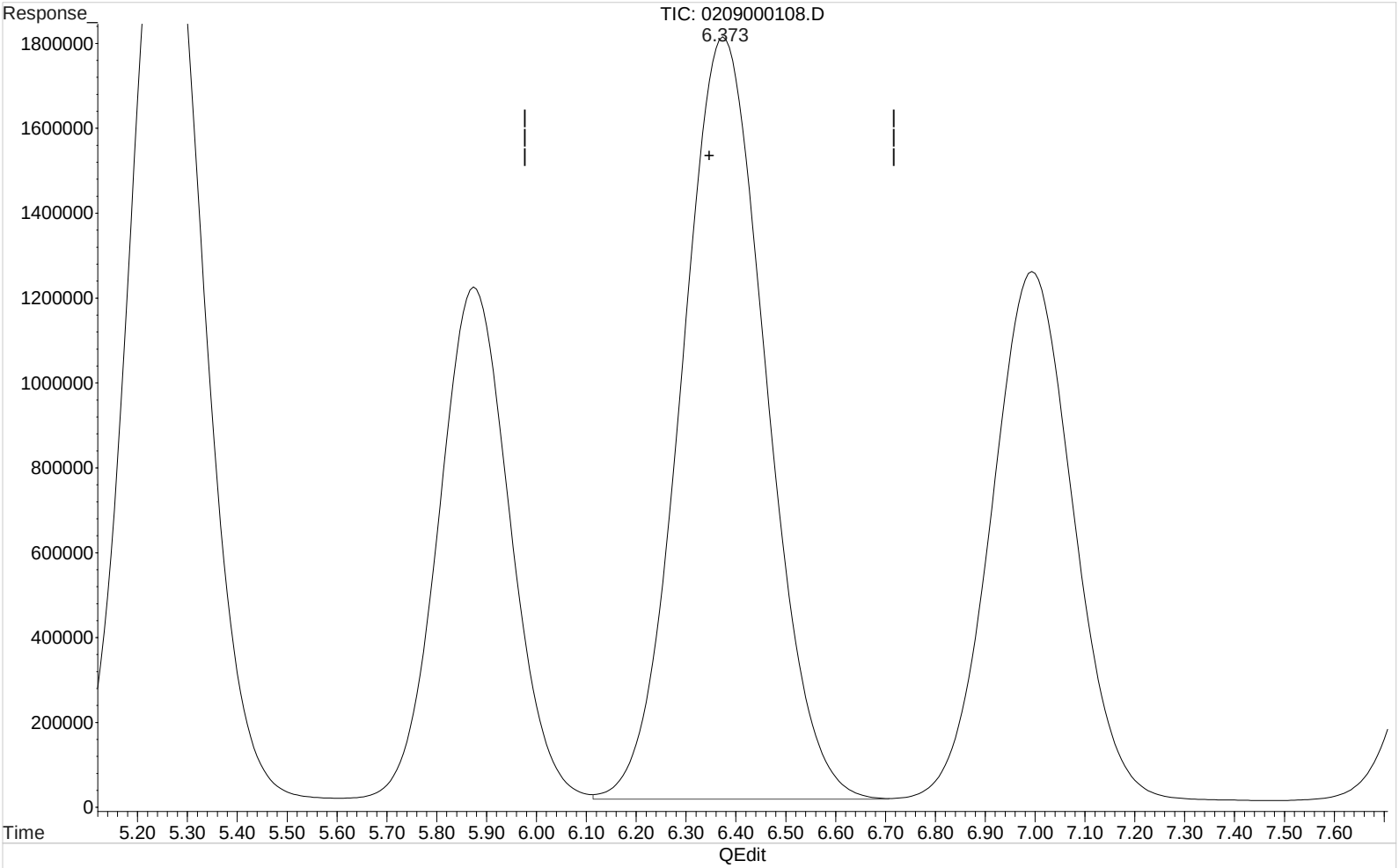
Quantitation Report (Qedit)

(b) (6)
1st 2/13/17
2n 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.373min 513.240 ug/L m

response 21311094

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:53:53 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds							
11)	S	1-Chloro-3-Nitrobenzene	8.140	26673138	1017.135	ug/L	
Target Compounds							
1)	T	HMX	2.560	15754141	1011.865	ug/L	m
2)	T	RDX	2.807	18282213	1034.253	ug/L	
3)	T	Nitrobenzene	4.487	37153839	1009.140	ug/L	m
4)	T	3,5-Dinitroaniline	5.247	46792847	1020.192	ug/L	
5)	T	4-Amino-2,6-DNT	4.873	32003465	1023.774	ug/L	
6)	T	2-NT	5.867	23562112	1002.211	ug/L	m
7)	T	2-Amino-4,6-DNT	6.360	42381135	1025.978	ug/L	m
8)	T	3-NT	6.987	27875884	1007.514	ug/L	
9)	T	1,3-DNB	9.133	55586286	1014.562	ug/L	
10)	T	4-NT	7.847	22827299	1009.477	ug/L	
12)	T	2,6-DNT	8.820	24988433	1030.126	ug/L	
13)	T	2,4-DNT	14.813	51254762	1019.136	ug/L	
14)	T	Tetryl	13.000	28722923	978.901	ug/L	
15)	T	1,3,5-TNB	19.813	41471658	1017.646	ug/L	
16)	T	2,4,6-TNT	20.800	39028968	1018.142	ug/L	

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

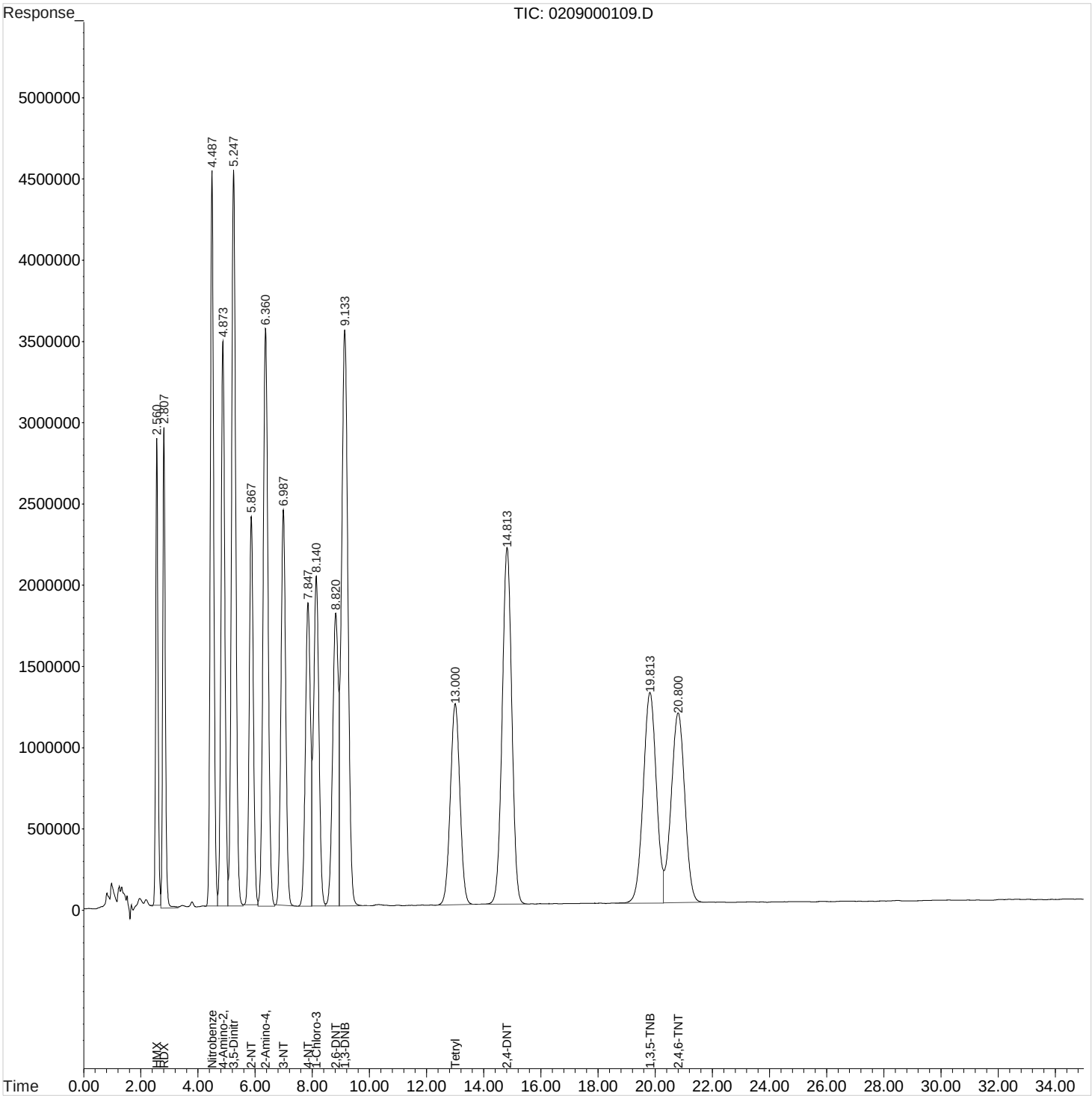
(b)(6)

1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:53:53 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

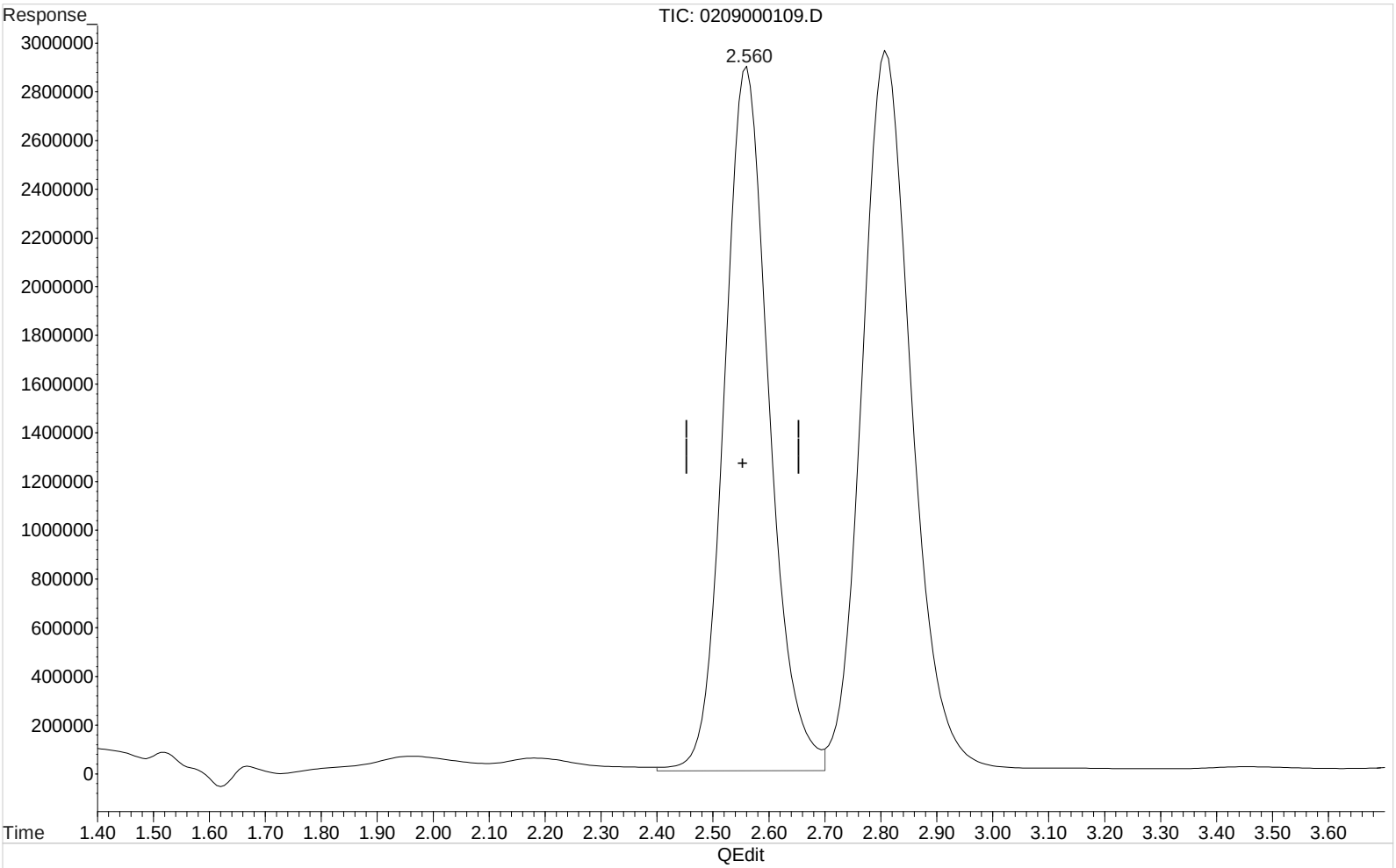


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:45:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.560min 1035.968 ug/L

response 16129417

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

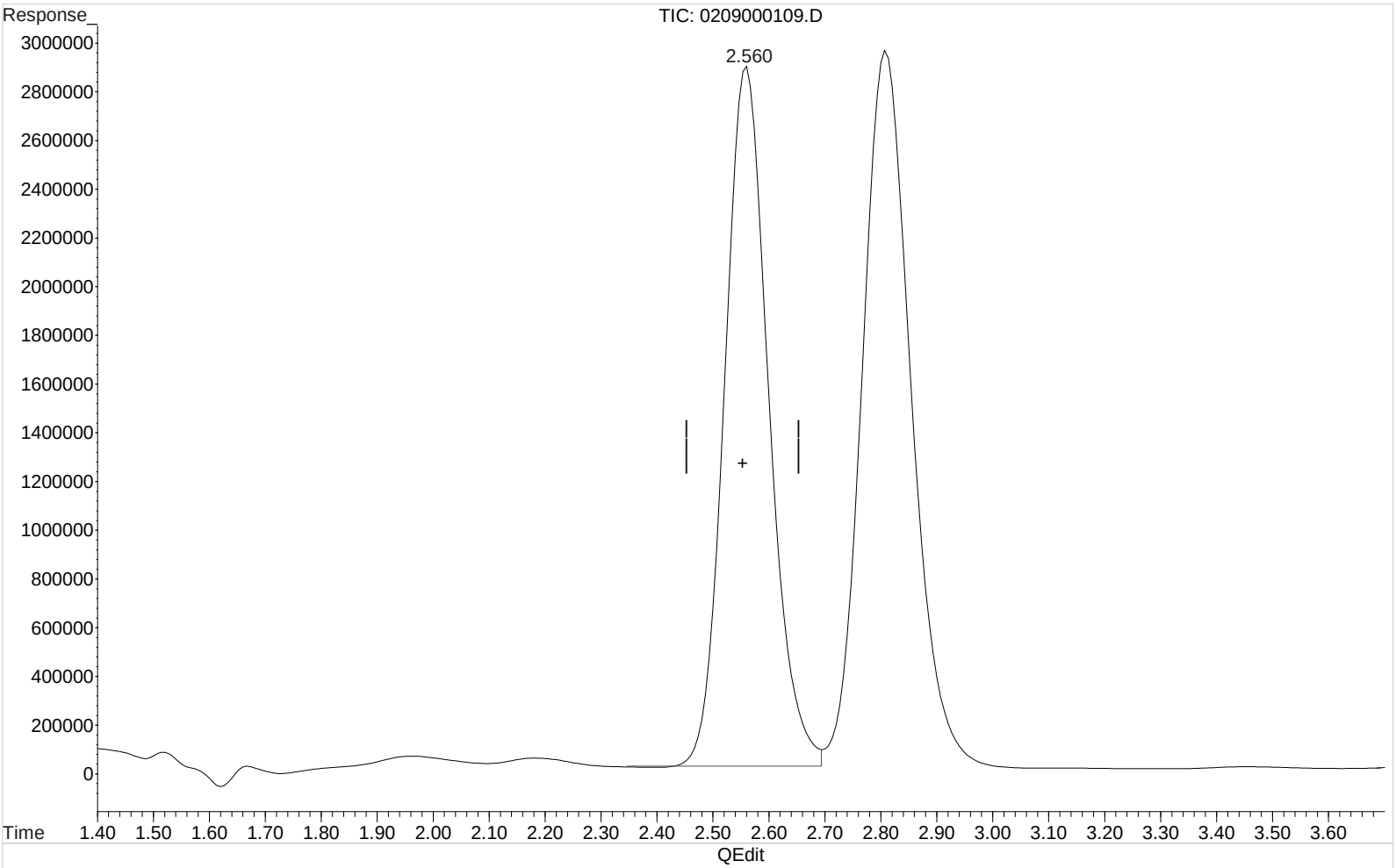
Quantitation Report (Qedit)

(b)(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:45:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(1) HMX (T)

2.560min 1011.865 ug/L m

response 15754141

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

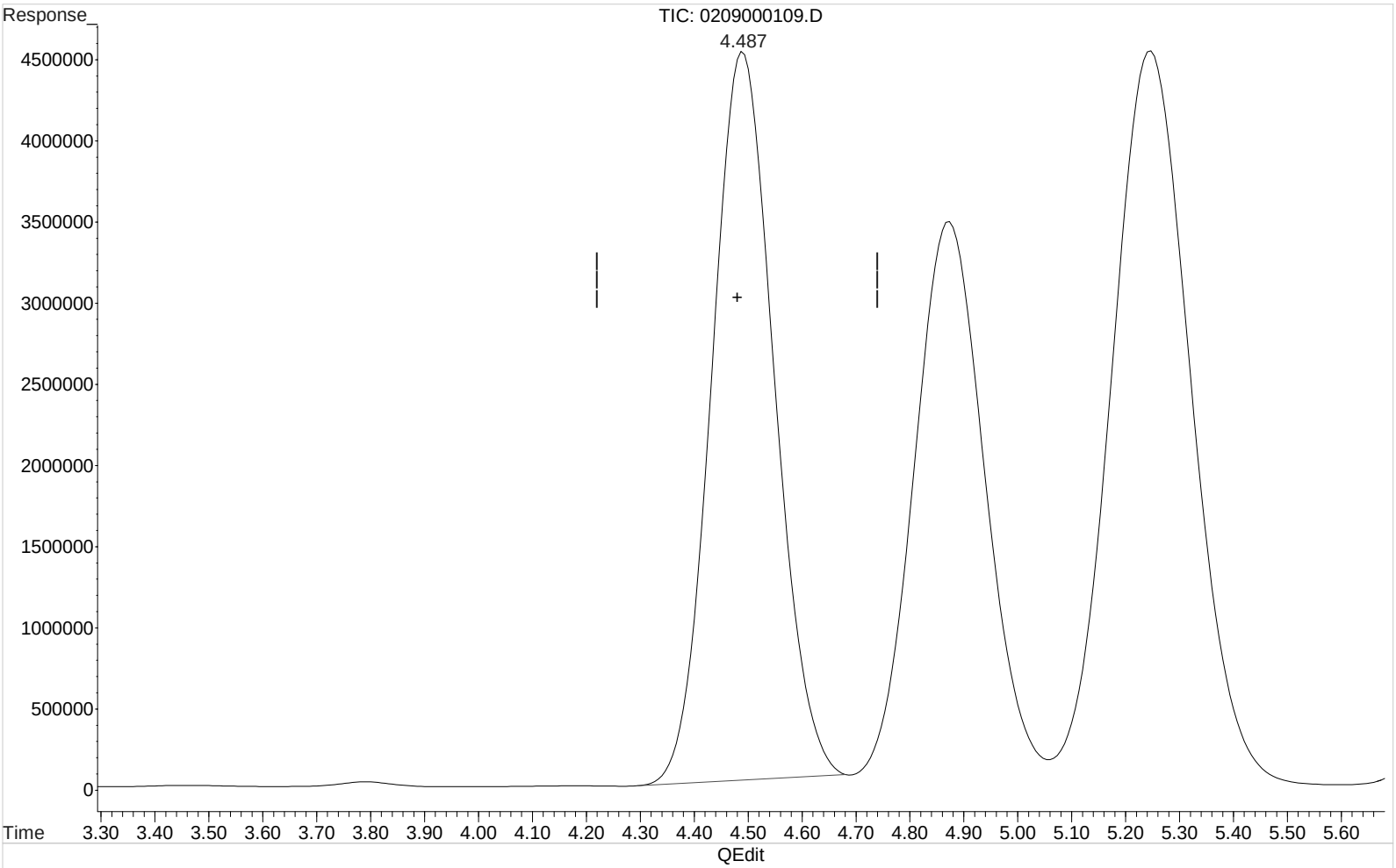
Quantitation Report (Qedit)

(b) (6)
1st 2/13/17
2n 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:45:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(3) Nitrobenzene (T)

4.487min 987.330 ug/L

response 36350884

Manual Integration:

Before

02/13/17

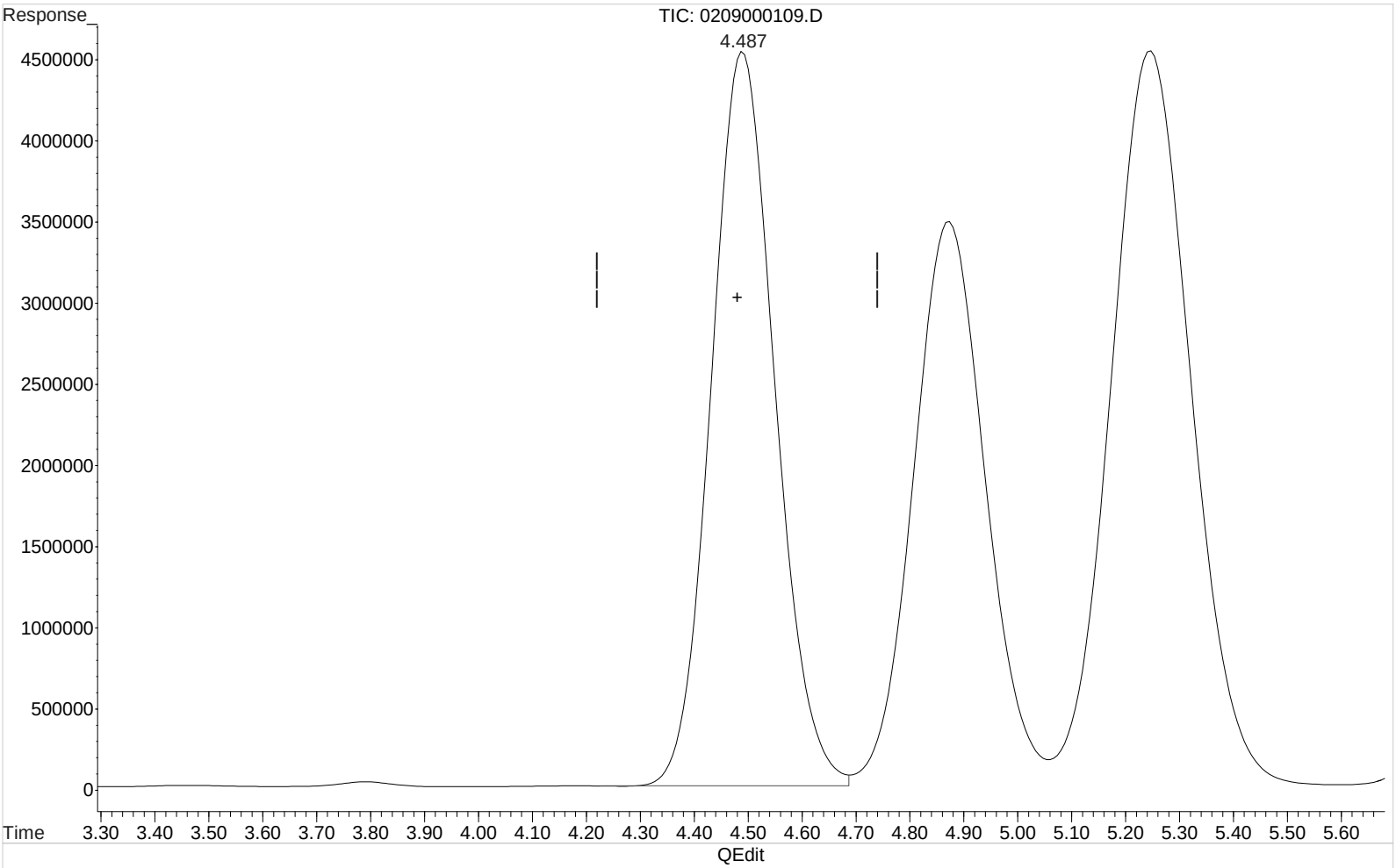
(+) = Expected Retention Time

(b)(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:45:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 1009.140 ug/L m

response 37153839

Manual Integration:

After

BLC

02/13/17

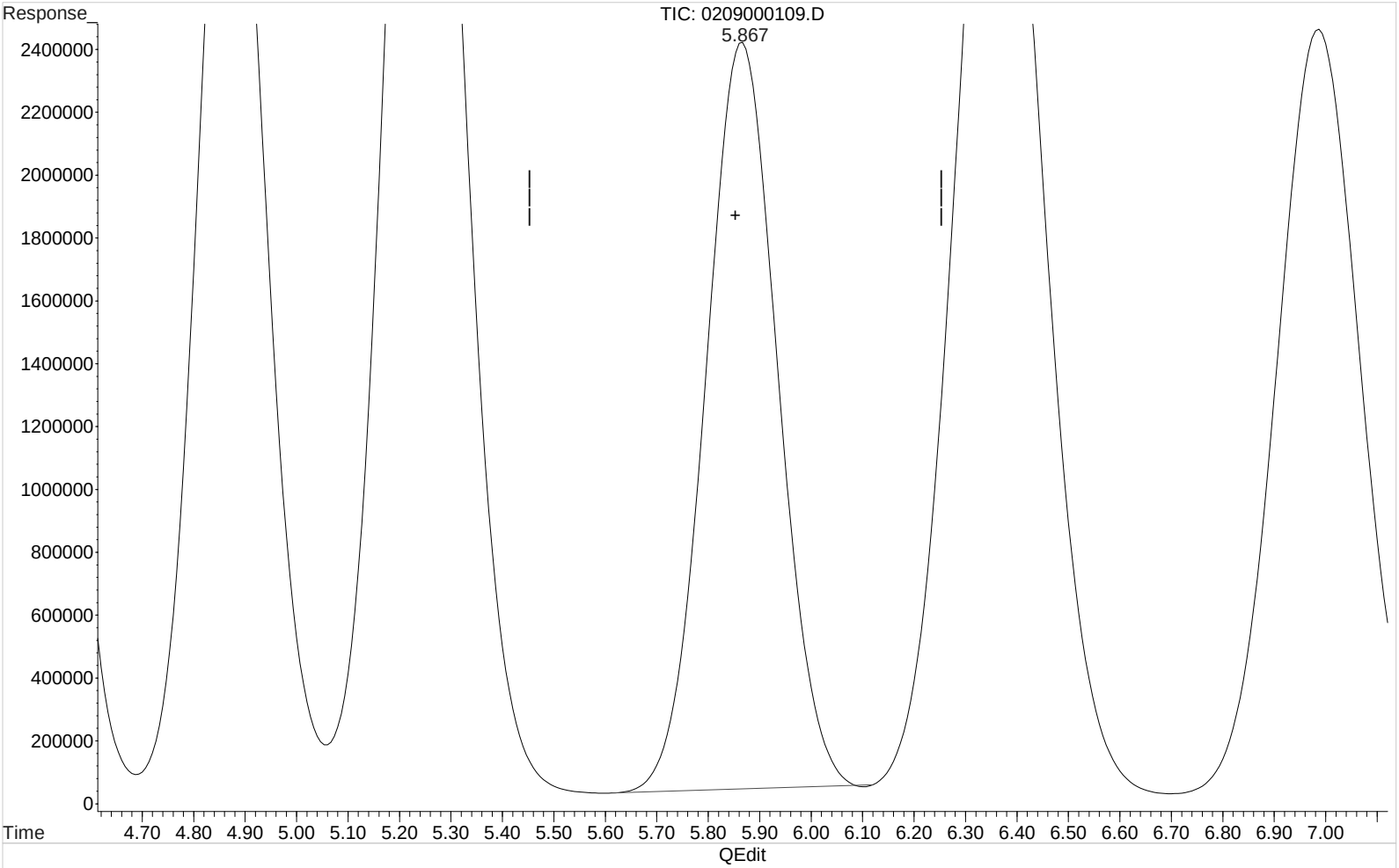
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:45:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.867min 987.309 ug/L

response 23211771

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

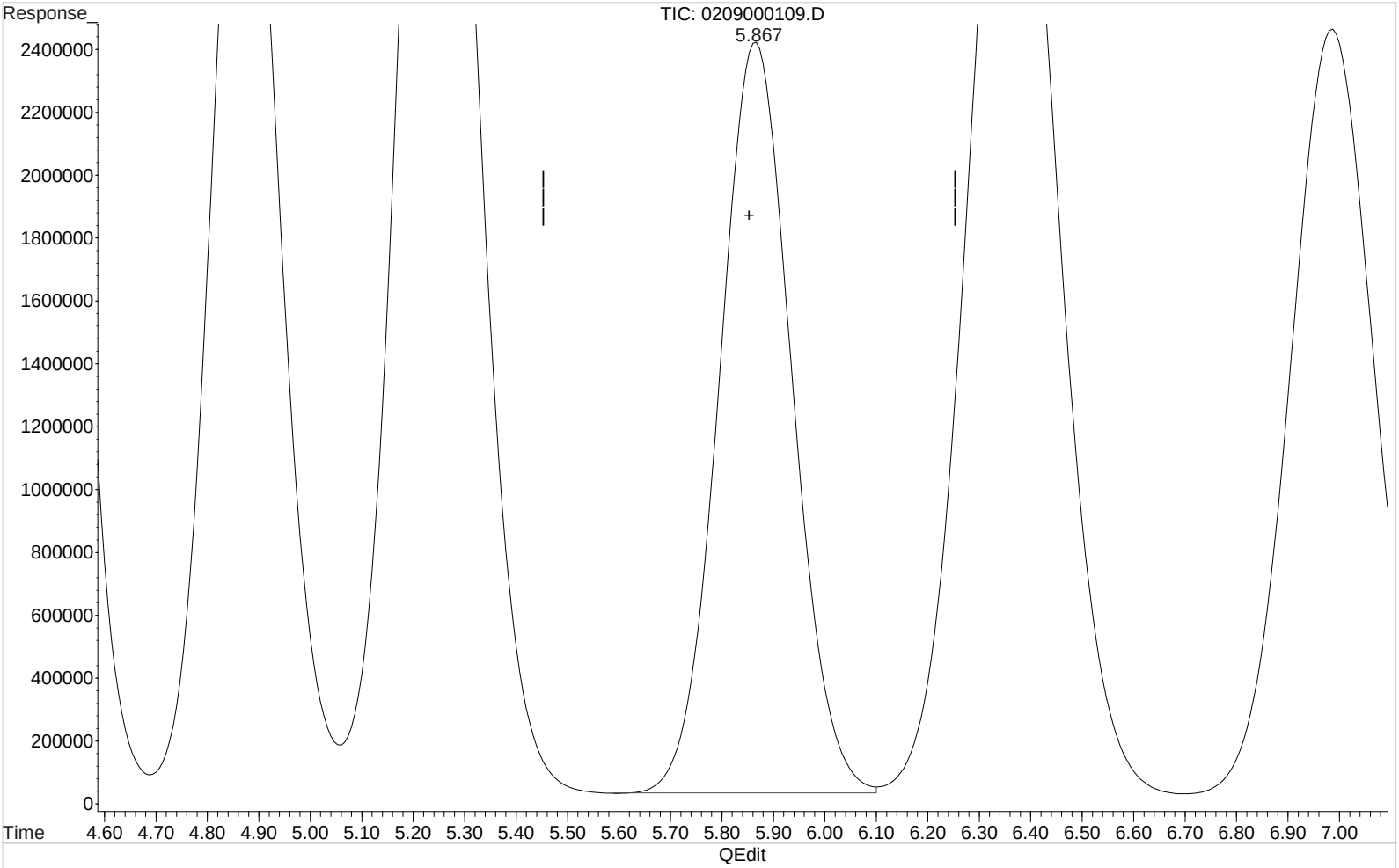
Quantitation Report (Qedit)

(b)
(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:53:53 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.867min 1002.211 ug/L m

response 23562112

Manual Integration:

After

BLC

02/13/17

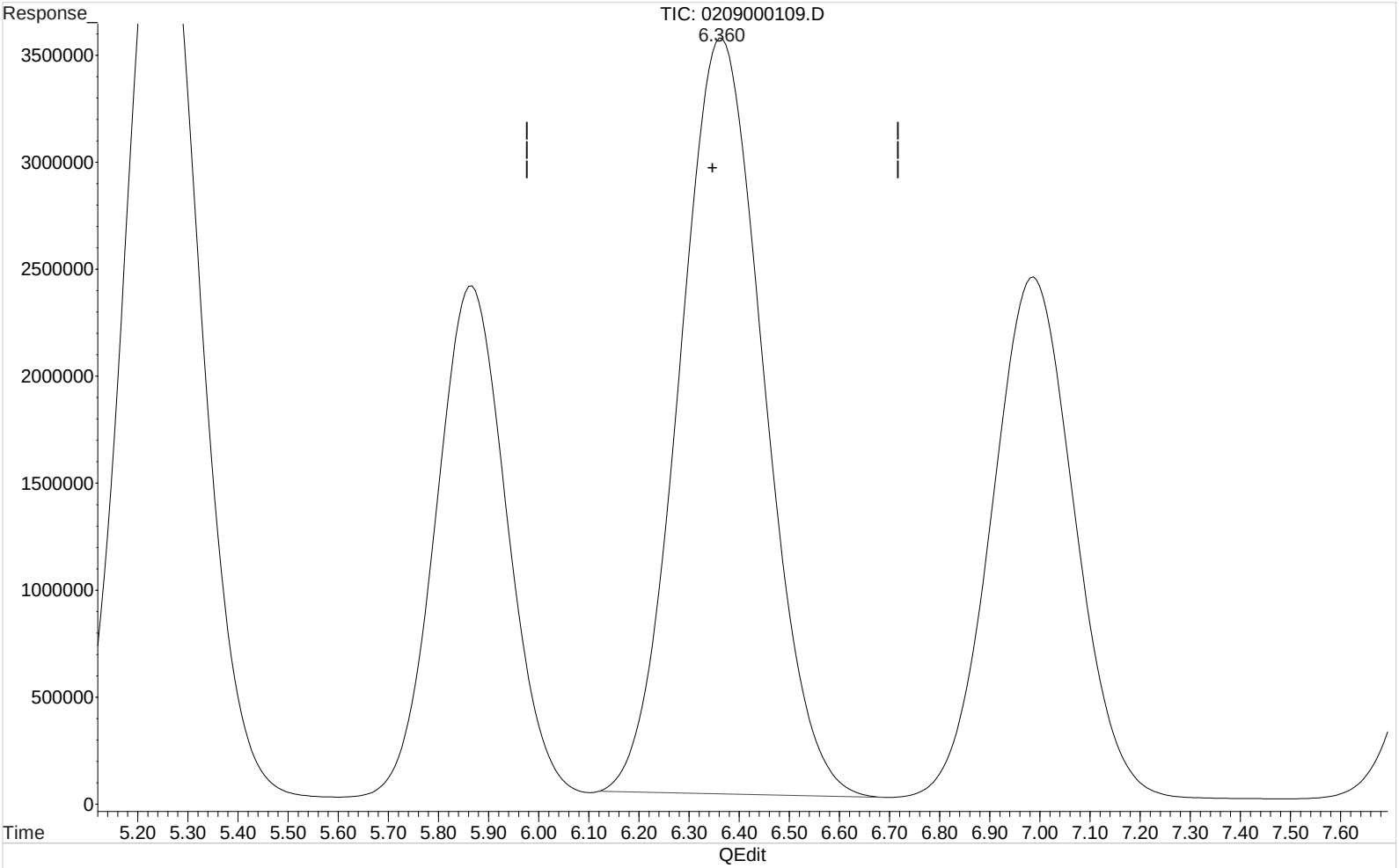
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:45:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(7) 2-Amino-4,6-DNT (T)

6.360min 1006.729 ug/L

response 41585985

Manual Integration:

Before

02/13/17

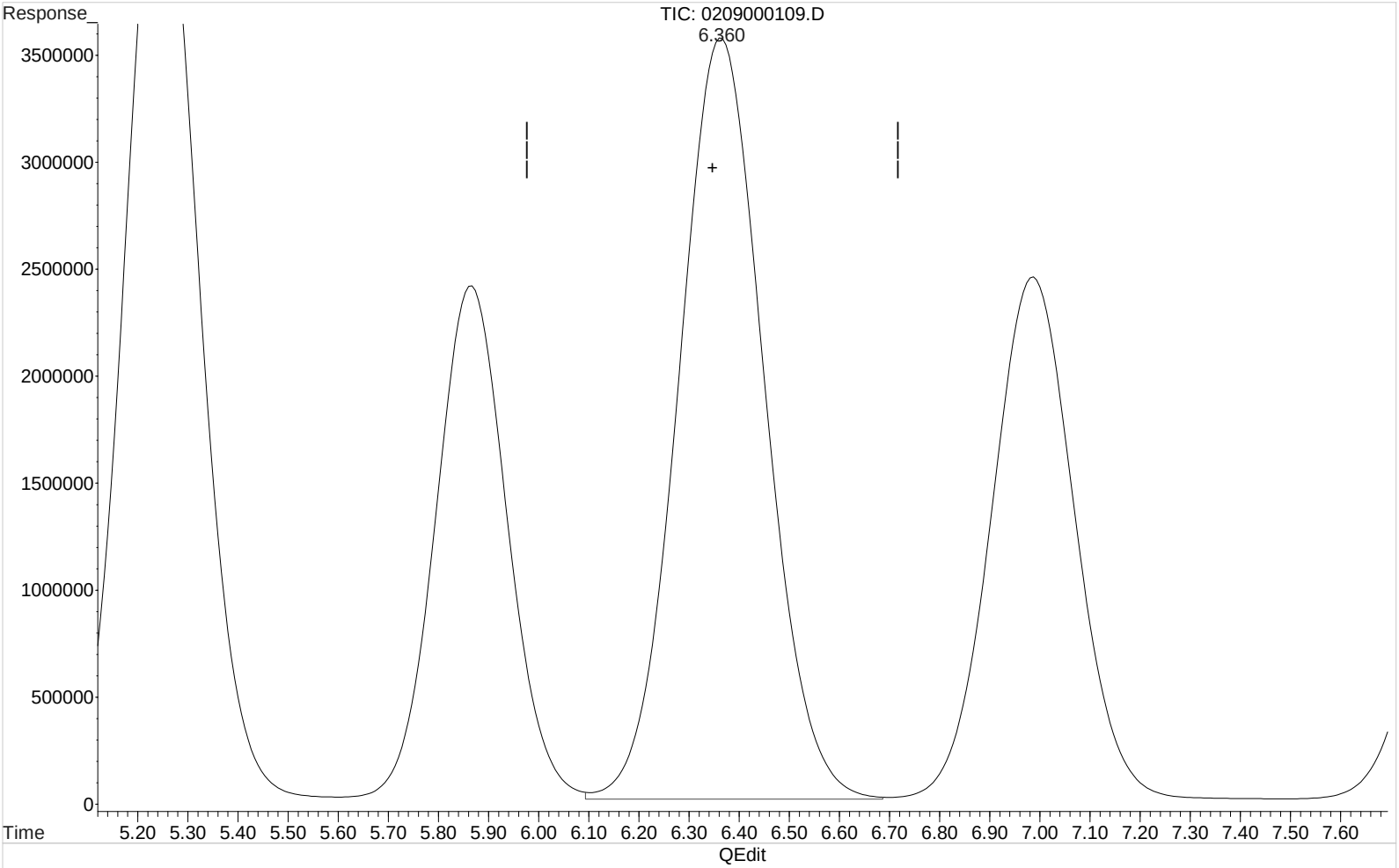
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:45:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.360min 1025.978 ug/L m

response 42381135

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:32:55 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds							
11)	S	1-Chloro-3-Nitrobenzene	8.140	53161422	2036.459	ug/L	
Target Compounds							
1)	T	HMX	2.553	31311485	2014.814	ug/L	m
2)	T	RDX	2.800	35554384	2015.185	ug/L	
3)	T	Nitrobenzene	4.487	73843312	2007.562	ug/L	m
4)	T	3,5-Dinitroaniline	5.247	92210324	2013.888	ug/L	
5)	T	4-Amino-2,6-DNT	4.873	62907414	2016.533	ug/L	
6)	T	2-NT	5.867	46778486	1986.311	ug/L	m
7)	T	2-Amino-4,6-DNT	6.367	83175566	2018.100	ug/L	m
8)	T	3-NT	6.987	55760509	2020.510	ug/L	m
9)	T	1,3-DNB	9.133	109641297	2001.567	ug/L	
10)	T	4-NT	7.853	45953635	2043.136	ug/L	m
12)	T	2,6-DNT	8.820	49007058	2027.122	ug/L	
13)	T	2,4-DNT	14.807	100936143	2009.326	ug/L	
14)	T	Tetryl	12.993	55778584	1870.117	ug/L	
15)	T	1,3,5-TNB	19.800	81579082	2002.423	ug/L	
16)	T	2,4,6-TNT	20.787	76817979	2005.253	ug/L	

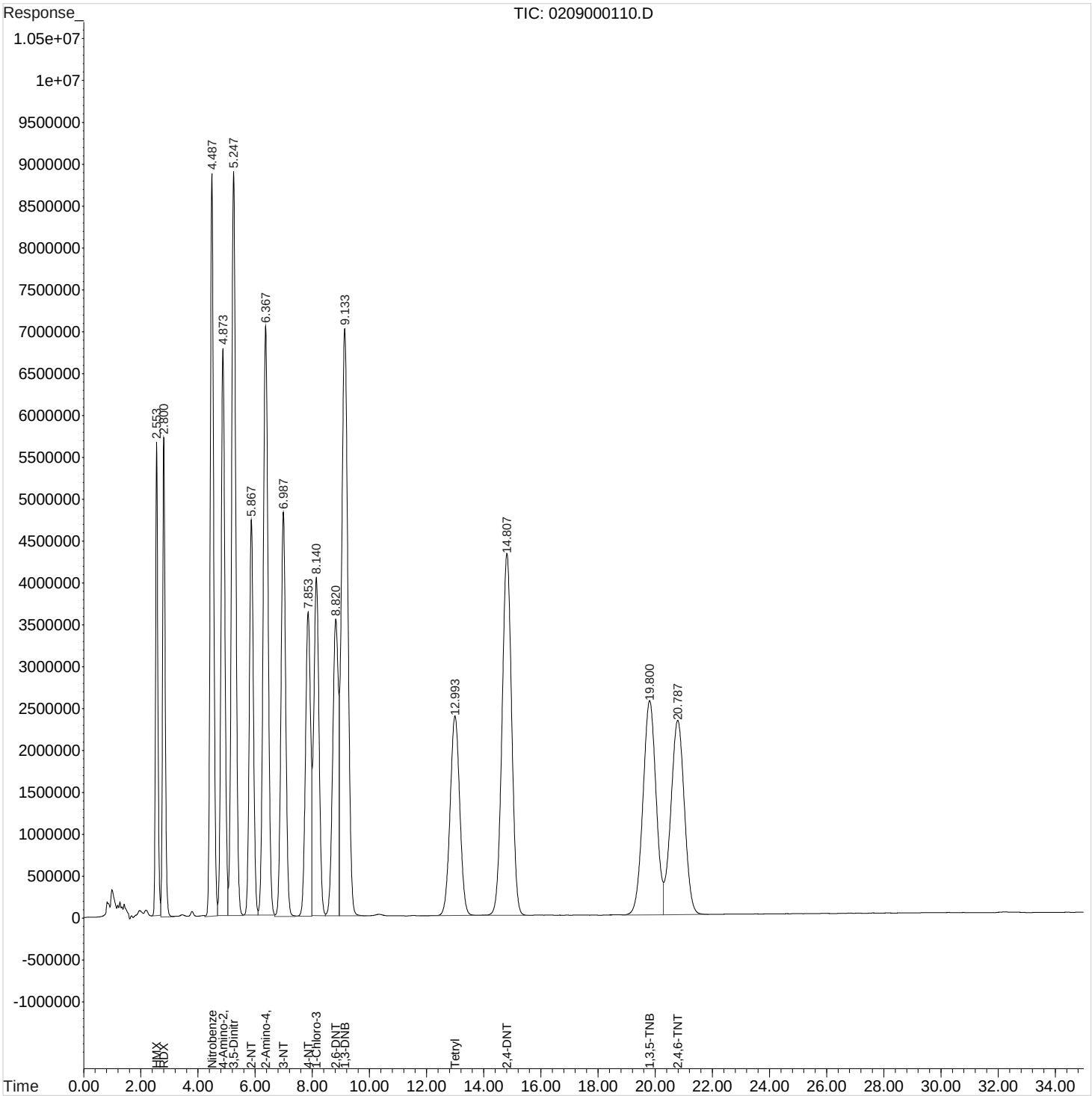
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:32:55 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

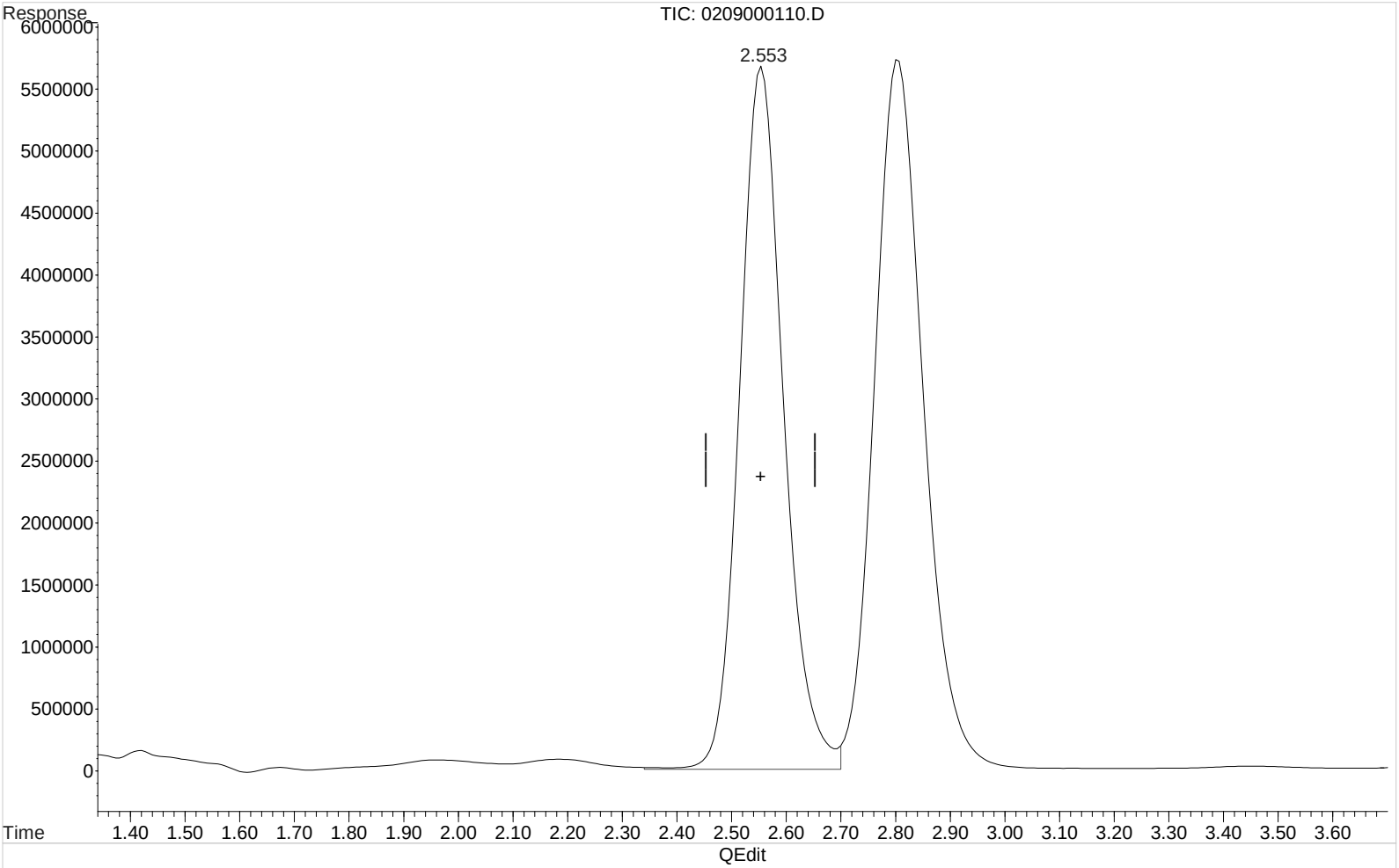


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(1) HMX (T)

2.553min 2039.049 ug/L

response 31688113

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

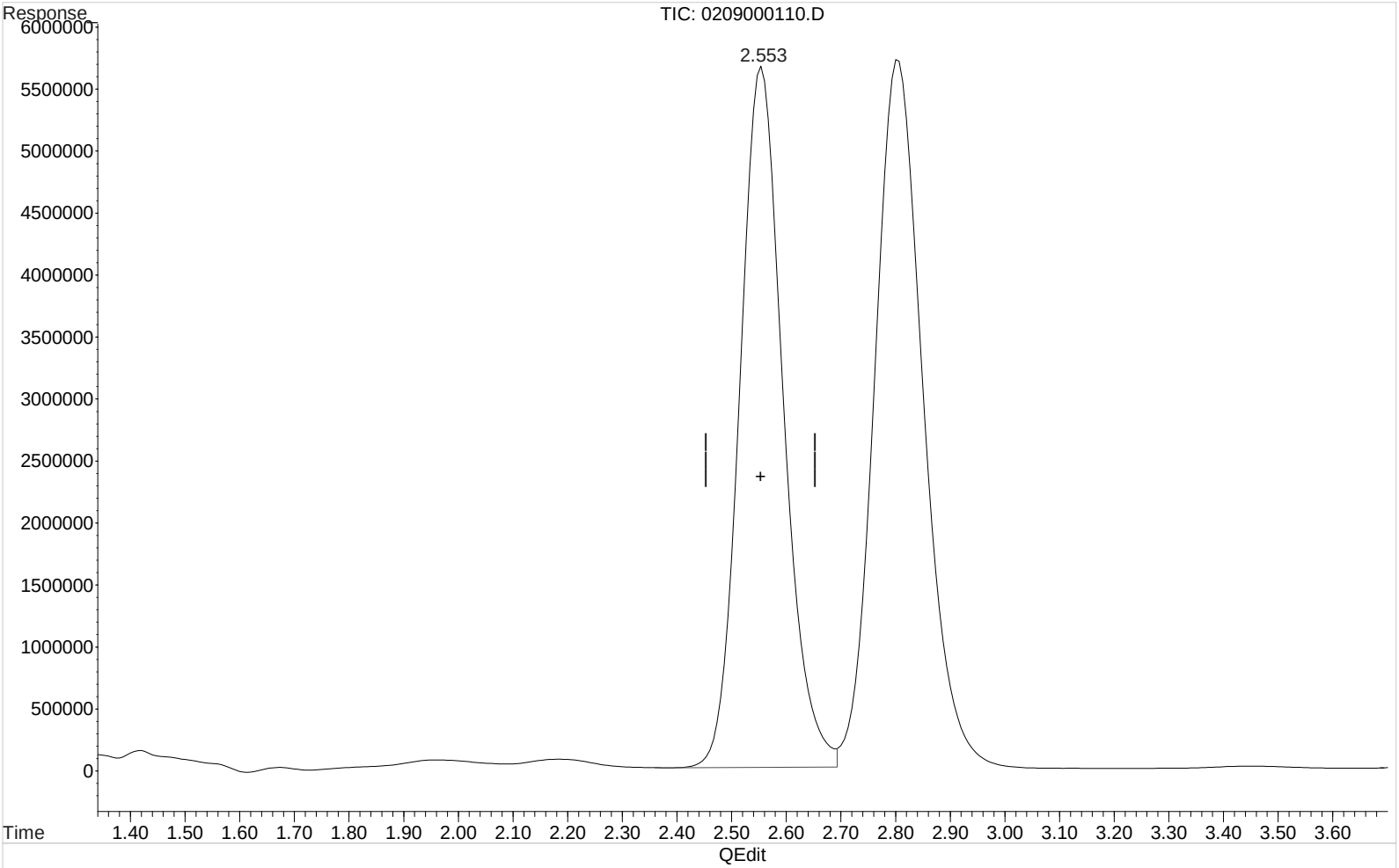
Quantitation Report (Qedit)

1st (b)(6) 02/13/17
2n 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(1) HMX (T)

2.553min 2014.814 ug/L m

response 31311485

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

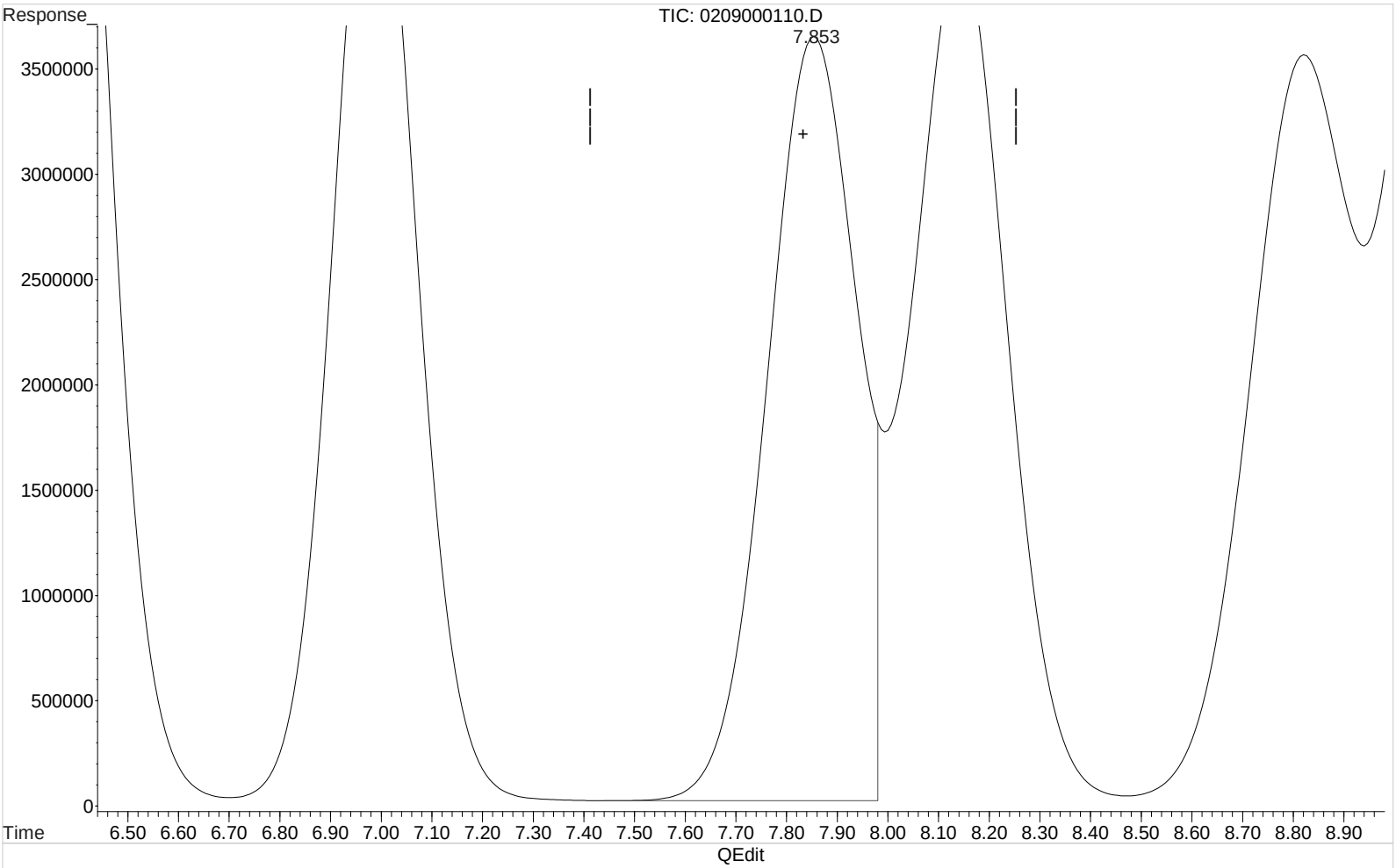
Quantitation Report (Qedit)

(b) (6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.853min 1977.033 ug/L

response 44466866

Manual Integration:

Before

02/13/17

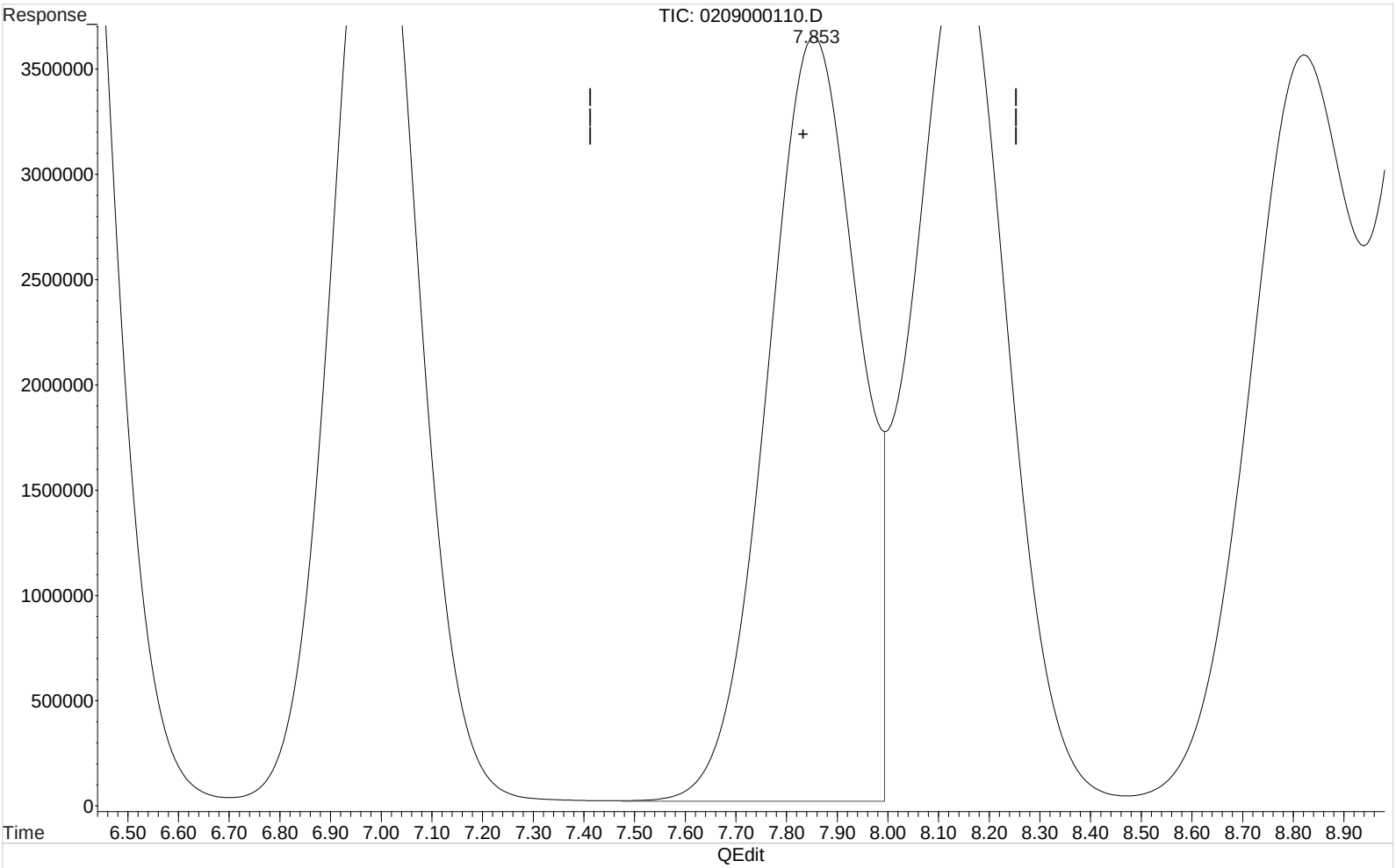
(+) = Expected Retention Time

(b) (6)
1st 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.853min 2043.136 ug/L m

response 45953635

Manual Integration:

After

BLC

02/13/17

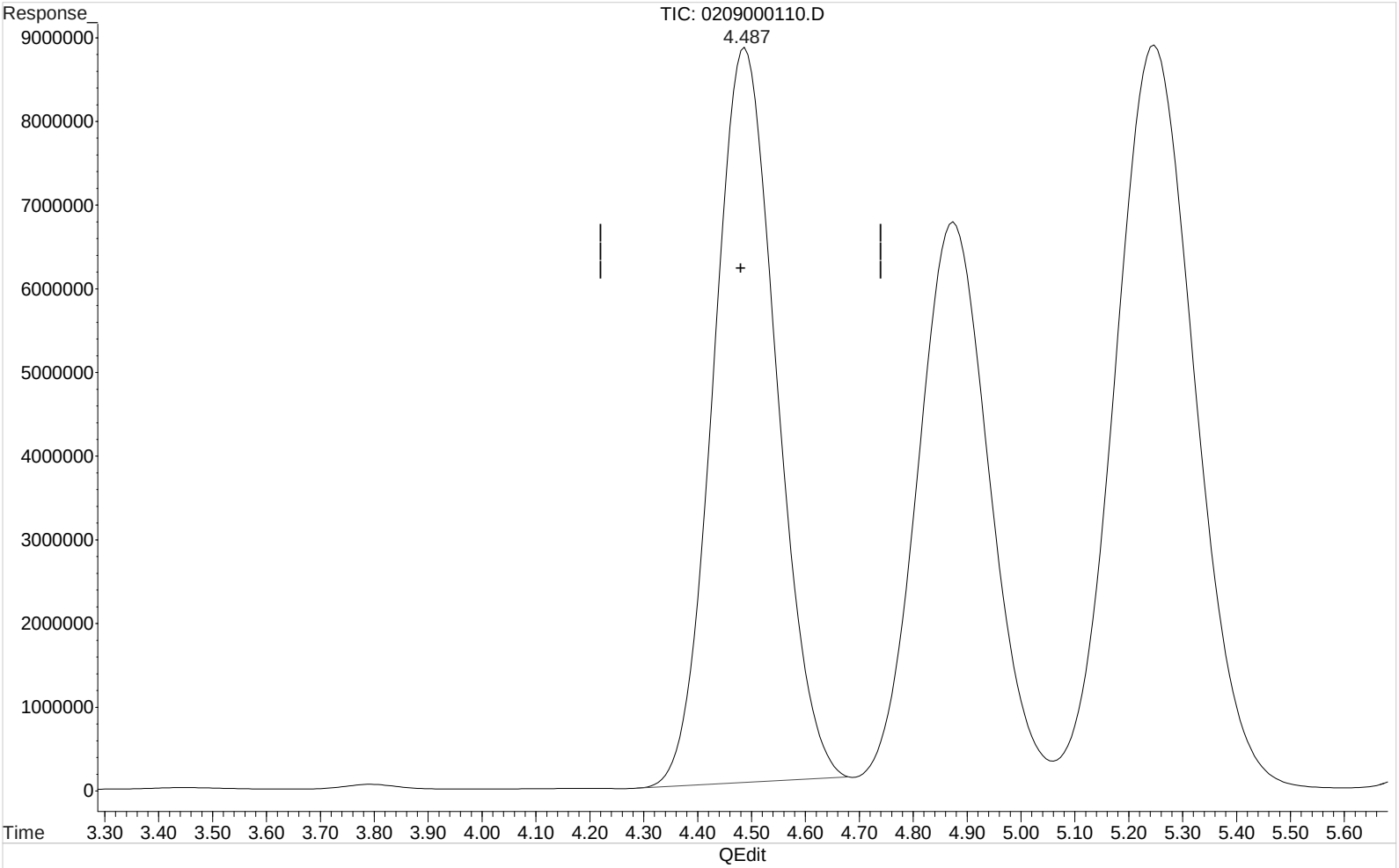
(+) = Expected Retention Time

(b) (6)
1st 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 1955.136 ug/L

response 71914932

Manual Integration:

Before

02/13/17

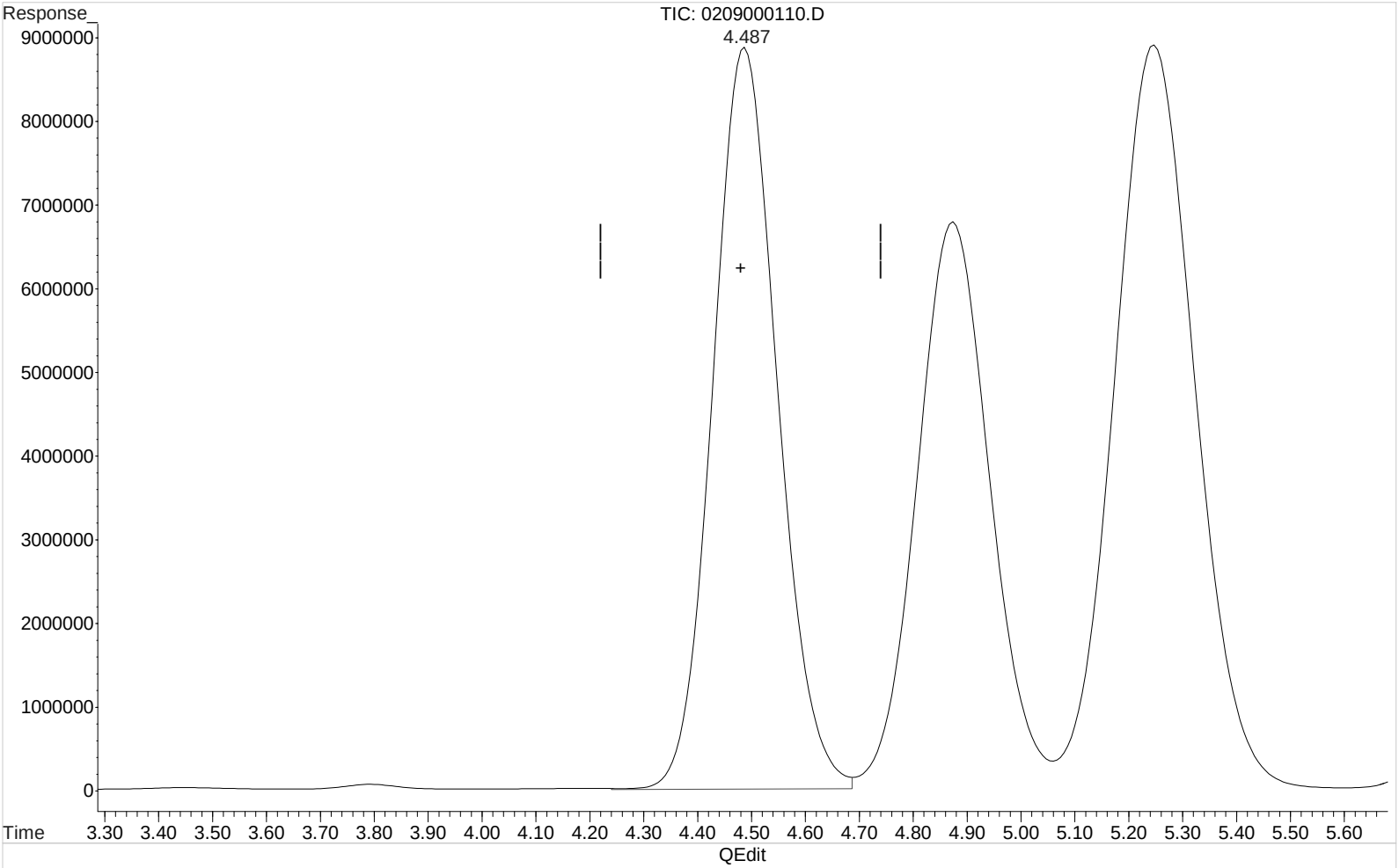
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 2007.562 ug/L m

response 73843312

Manual Integration:

After

BLC

02/13/17

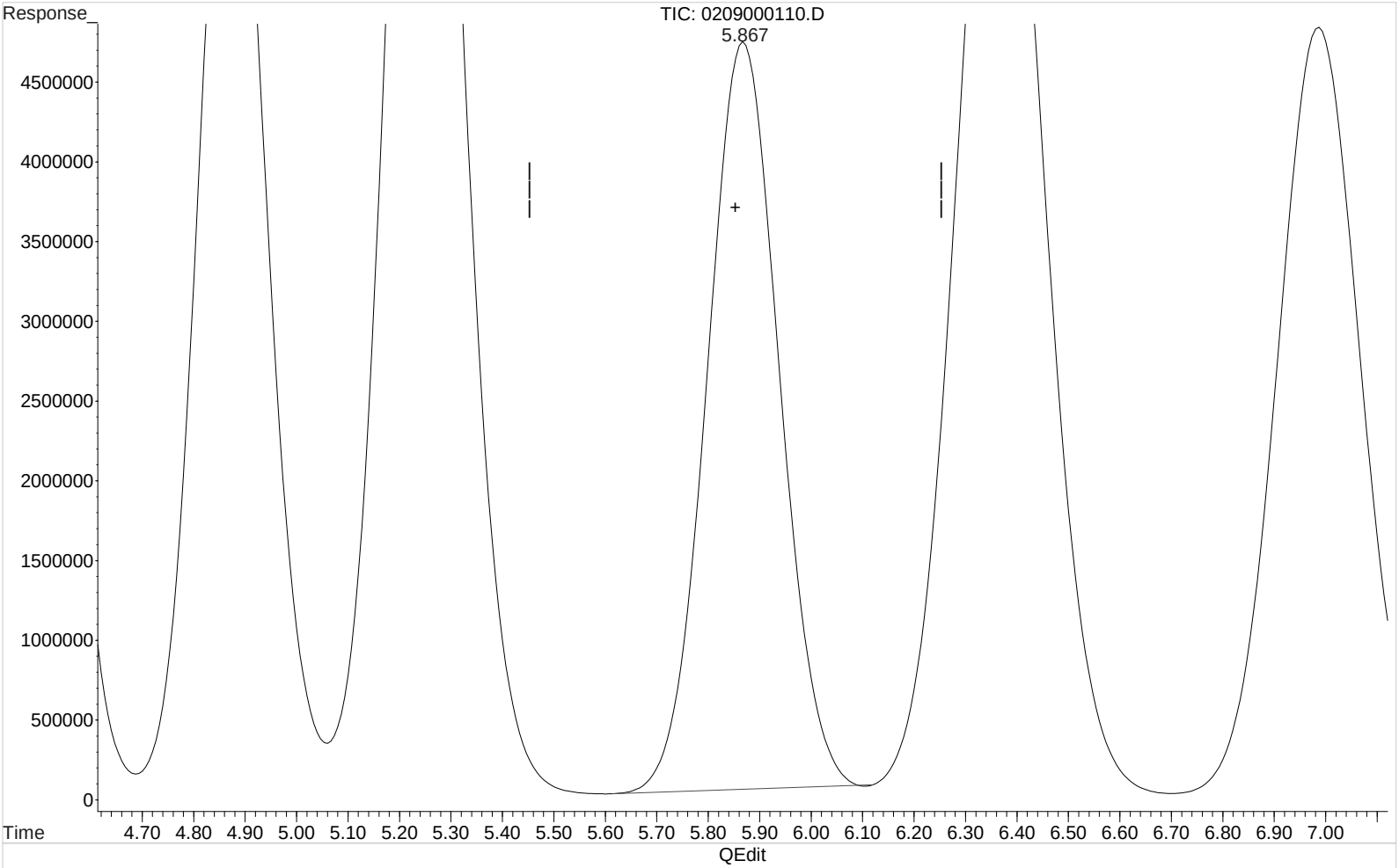
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.867min 1951.261 ug/L

response 45953051

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

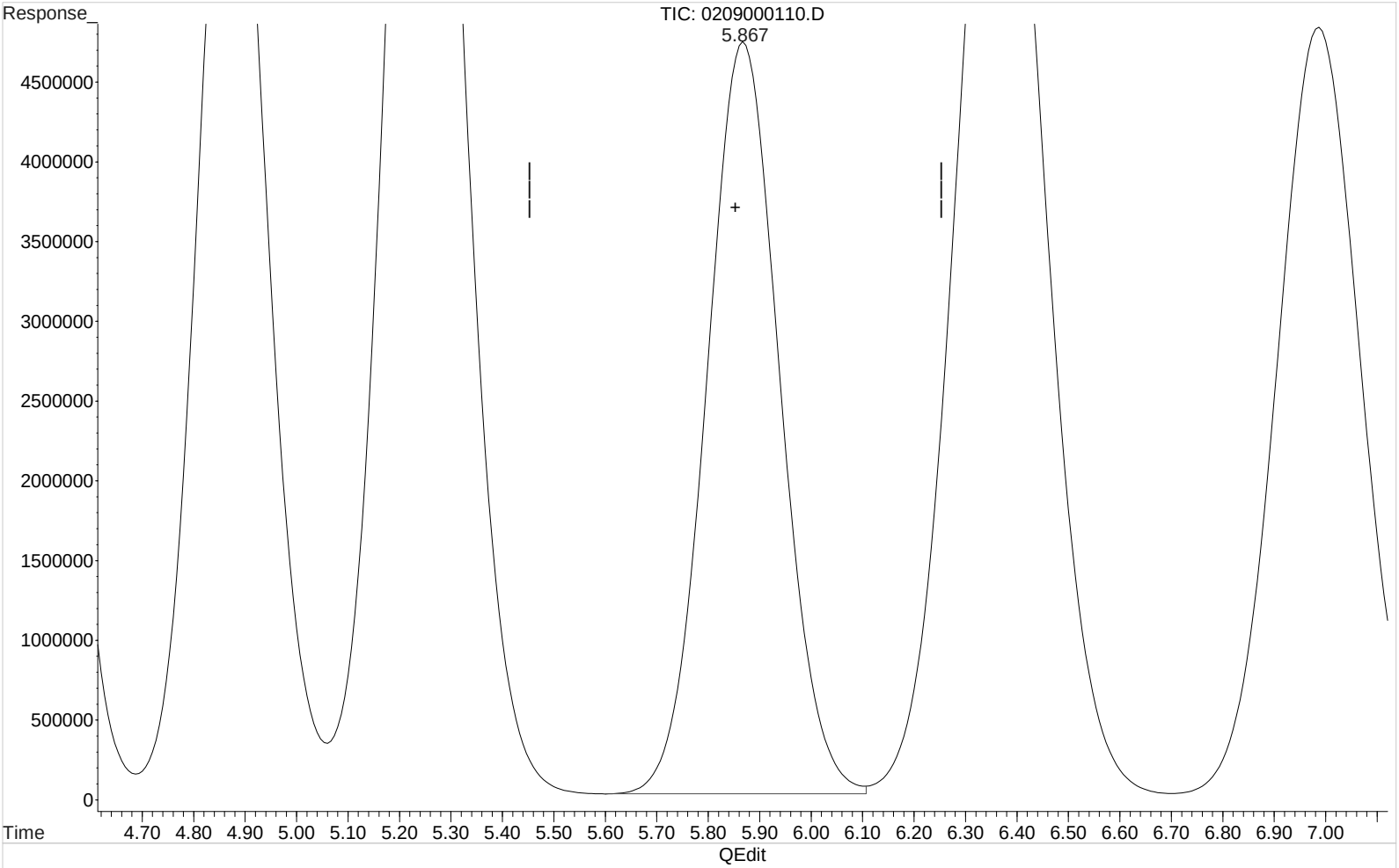
Quantitation Report (Qedit)

(b)
(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.867min 1986.311 ug/L m

response 46778486

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

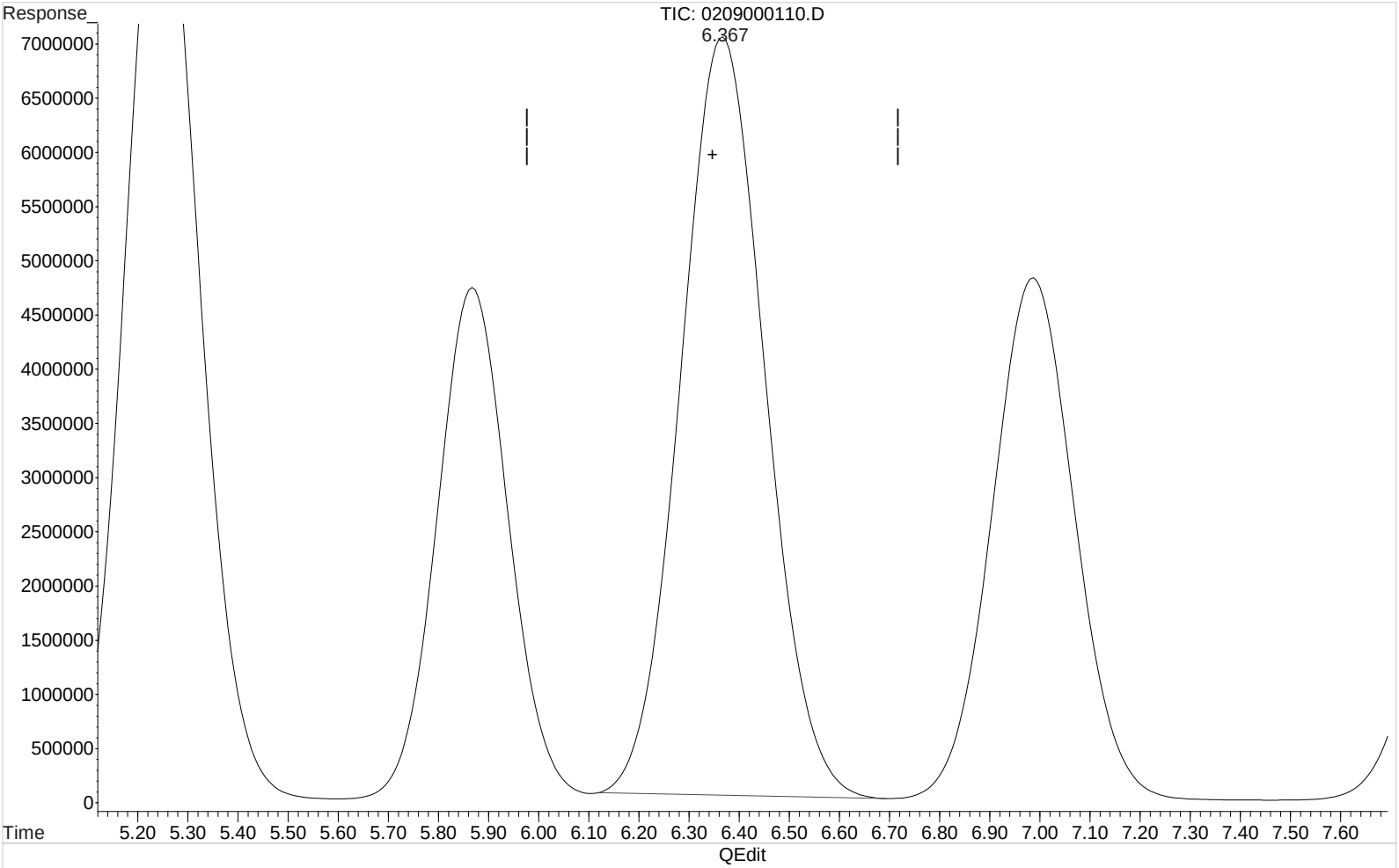
Quantitation Report (Qedit)

(b) (6)
1st 02/13/17
2n 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.367min 1990.374 ug/L

response 82032832

Manual Integration:

Before

02/13/17

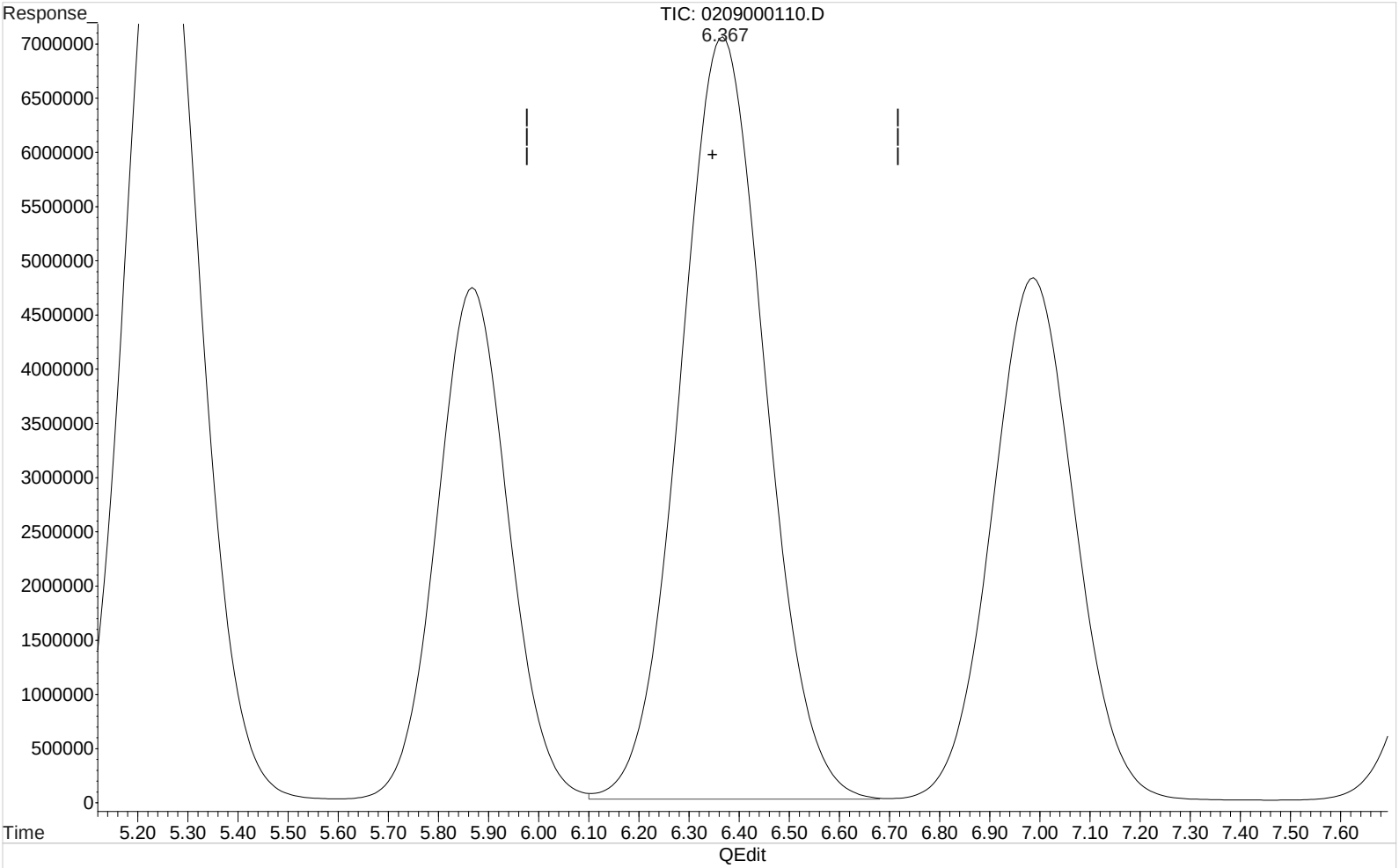
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.367min 2018.100 ug/L m

response 83175566

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b) (6)

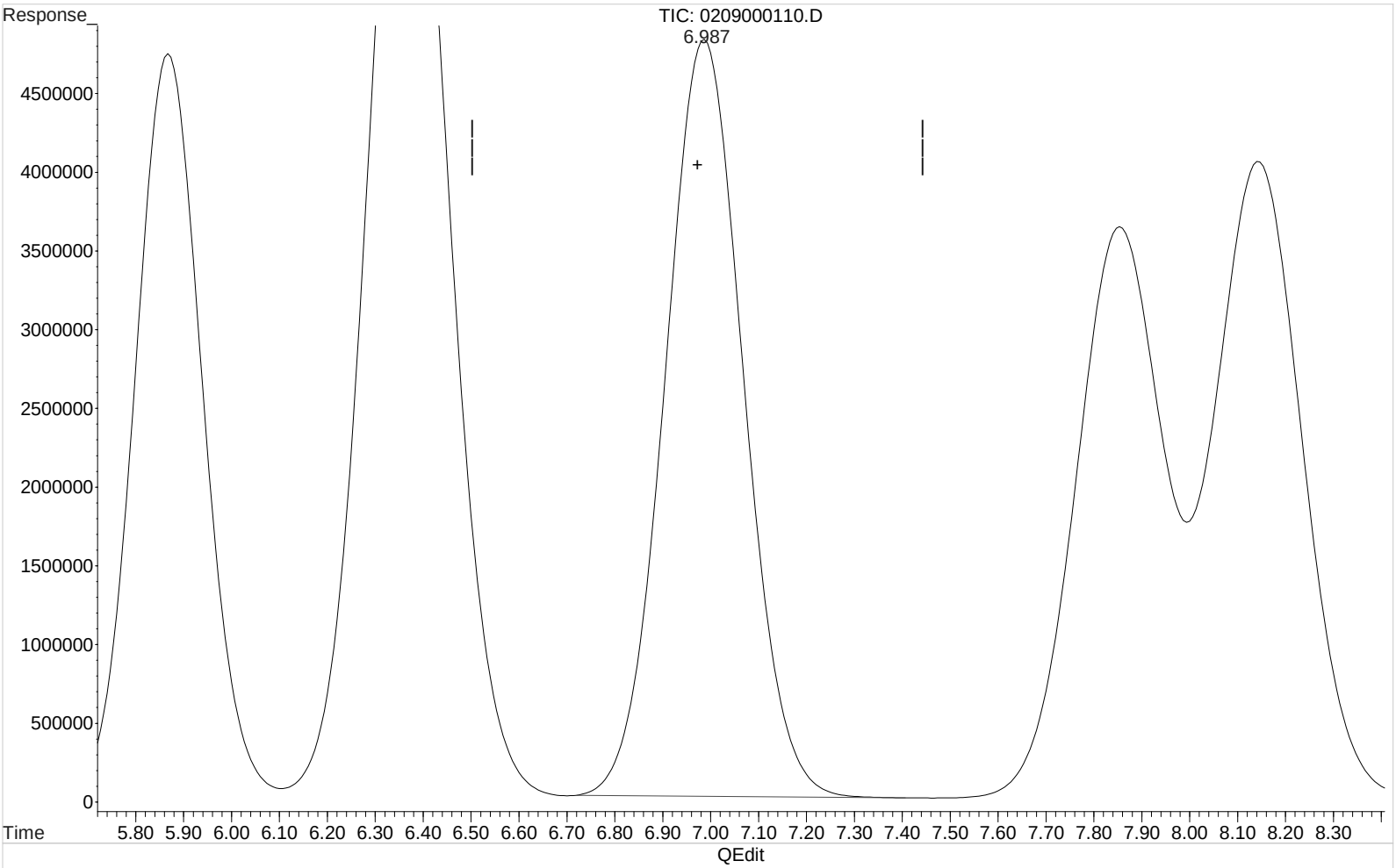
1st [redacted] /13/17

2n [redacted] /17/17

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(8) 3-NT (T)

6.987min 1994.277 ug/L

response 55036545

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

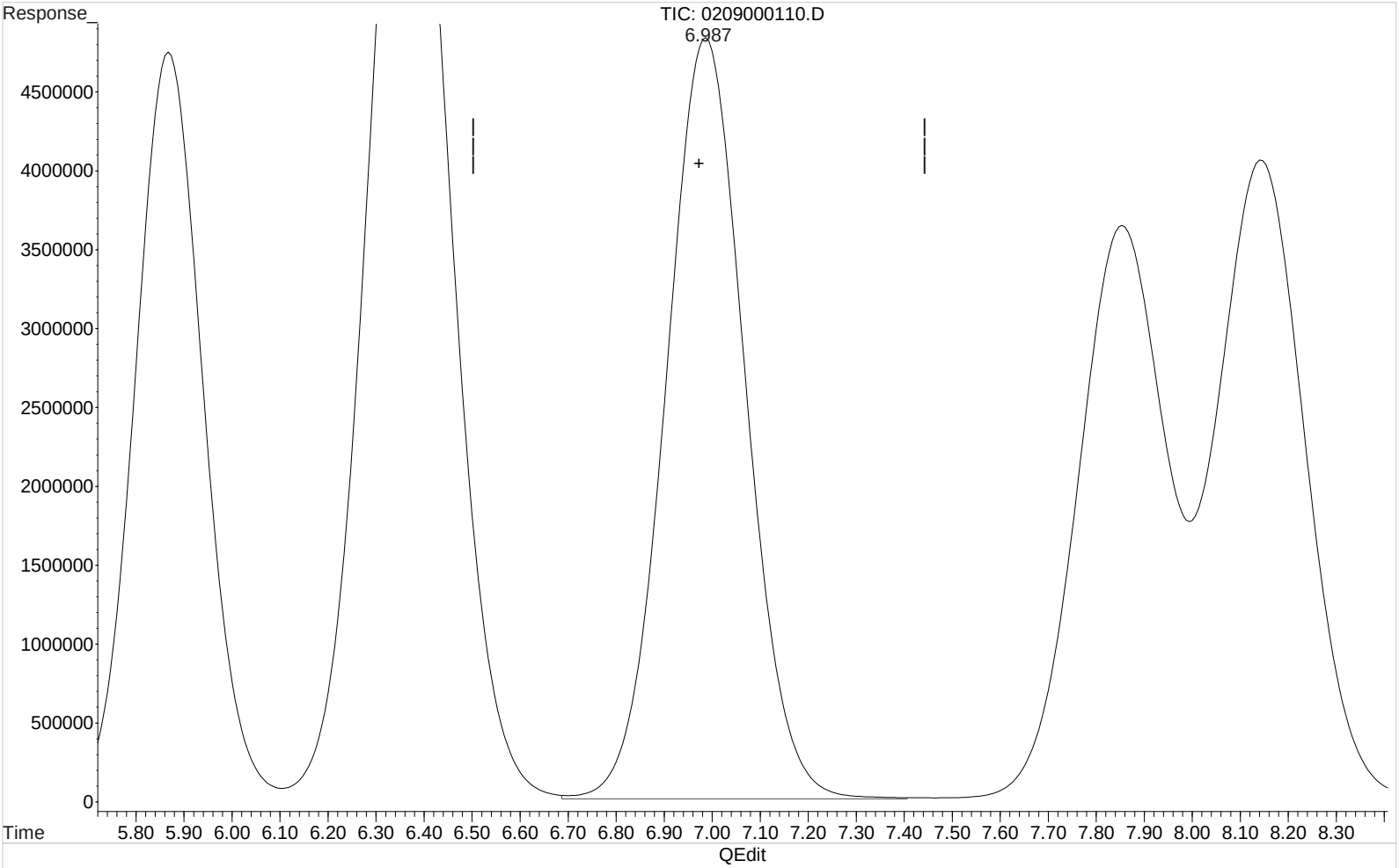
Quantitation Report (Qedit)

1st (b) (6) 02/13/17
2n 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(8) 3-NT (T)

6.987min 2020.510 ug/L m

response 55760509

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:28:34 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:17:26 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds							
11)	S	1-Chloro-3-Nitrobenzene	8.147	134147712	5211.143	ug/L	
Target Compounds							
1)	T	HMX	2.553	79282682	5154.023	ug/L	
2)	T	RDX	2.800	89521974	5111.845	ug/L	
3)	T	Nitrobenzene	4.487	185665109	5071.799	ug/L	m
4)	T	3,5-Dinitroaniline	5.247	231796987	5094.312	ug/L	
5)	T	4-Amino-2,6-DNT	4.873	157685856	5082.517	ug/L	
6)	T	2-NT	5.867	118315059	5035.938	ug/L	m
7)	T	2-Amino-4,6-DNT	6.367	208559971	5091.027	ug/L	m
8)	T	3-NT	6.987	138478990	5026.831	ug/L	
9)	T	1,3-DNB	9.140	276098652	5060.762	ug/L	
10)	T	4-NT	7.853	111473856	4934.615	ug/L	
12)	T	2,6-DNT	8.820	122414021	5095.886	ug/L	
13)	T	2,4-DNT	14.813	253409776	5067.205	ug/L	
14)	T	Tetryl	13.007	146489426	4868.306	ug/L	
15)	T	1,3,5-TNB	19.813	205131325	5052.852	ug/L	
16)	T	2,4,6-TNT	20.807	193626551	5082.074	ug/L	

(f)=RT Delta > 1/2 Window (m)=manual int.

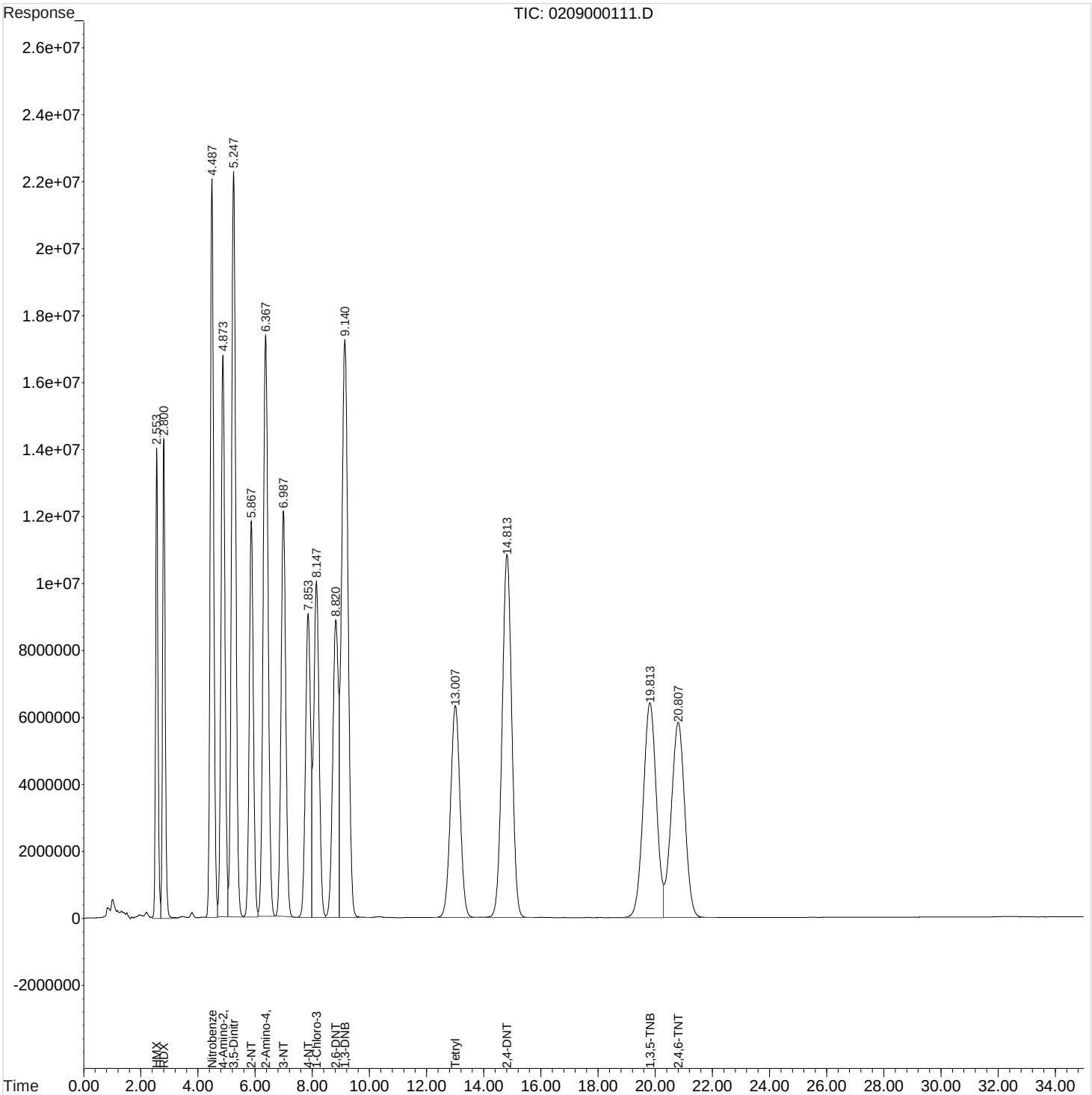
Quantitation Report (QT Reviewed)

1st (b)(6) 02/13/17
2n 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:28:34 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:17:26 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



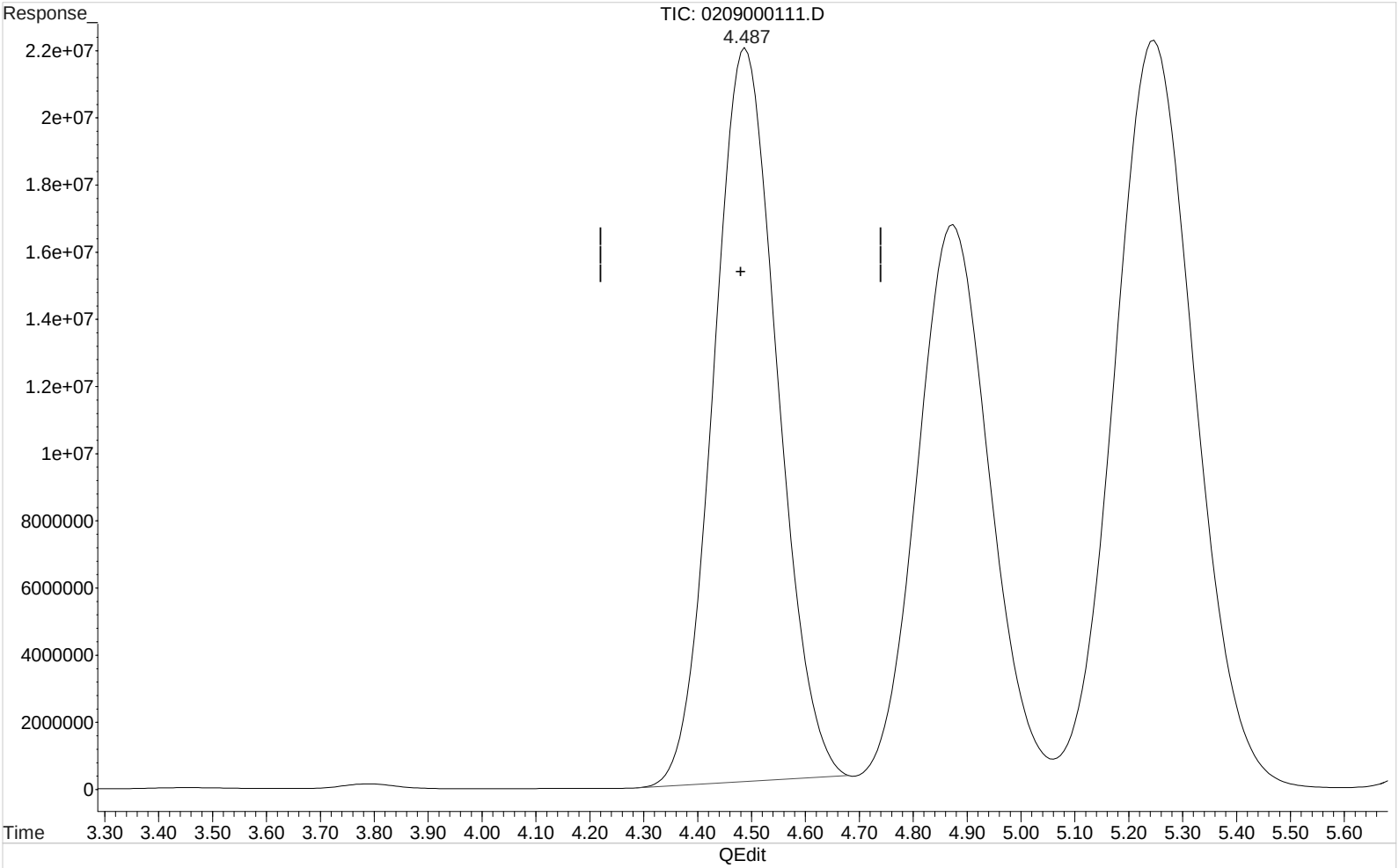
Quantitation Report (Qedit)

(b) (6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:26:24 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:17:26 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(3) Nitrobenzene (T)

4.487min 4932.834 ug/L

response 180577966

Manual Integration:

Before

02/13/17

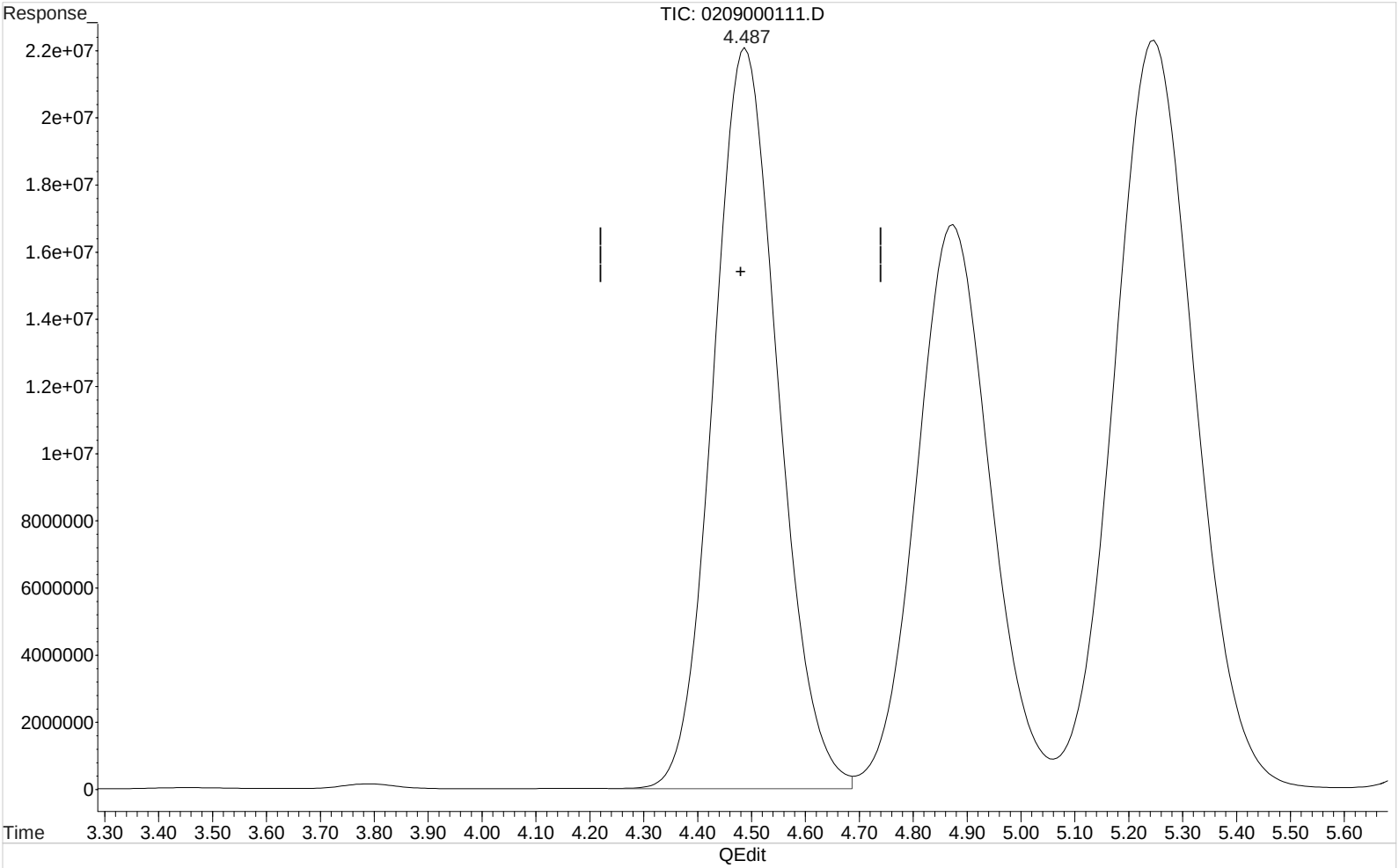
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:26:24 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:17:26 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(3) Nitrobenzene (T)

4.487min 5071.799 ug/L m

response 185665109

Manual Integration:

After

BLC

02/13/17

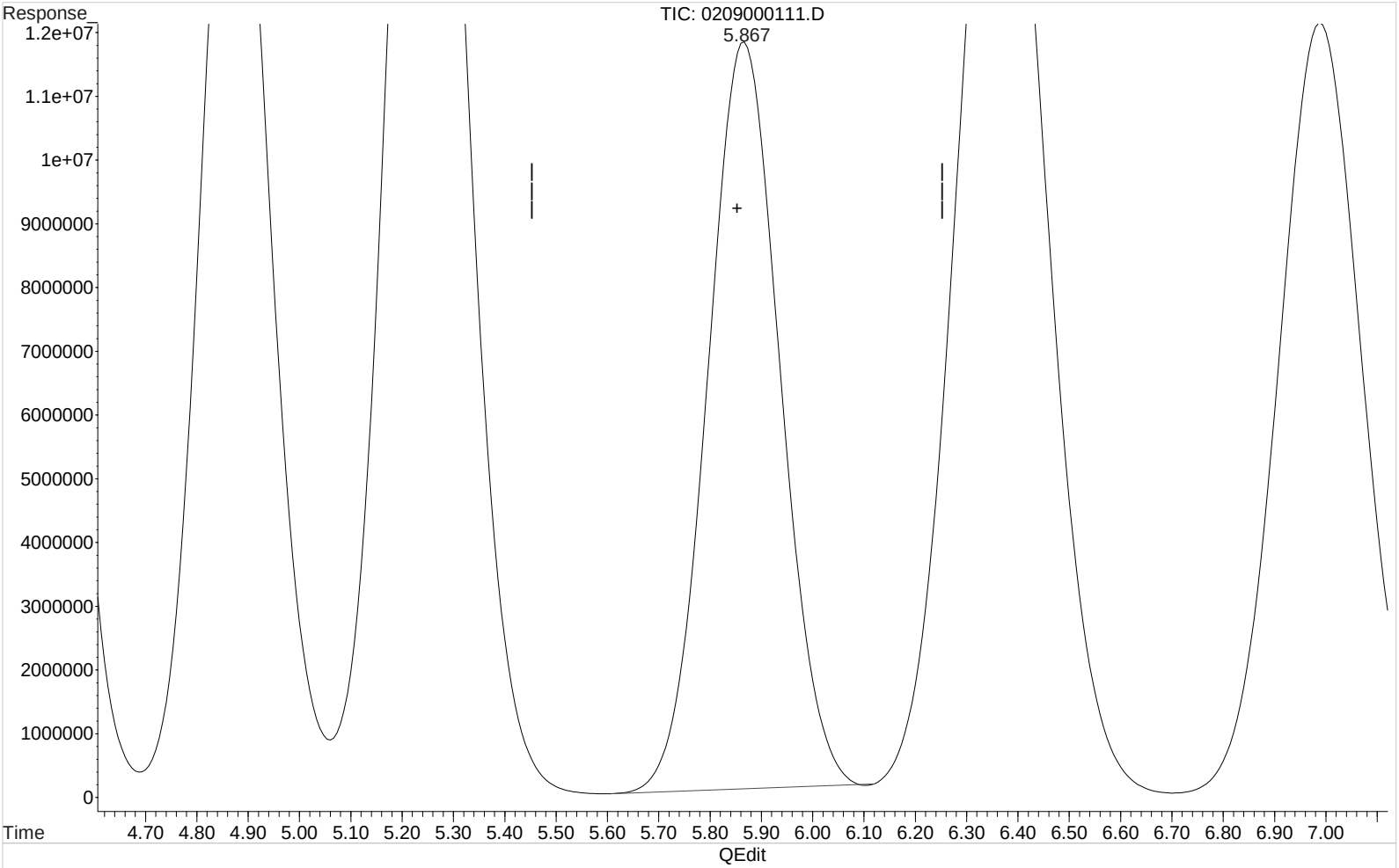
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:26:24 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:17:26 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.867min 4916.930 ug/L

response 115519071

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

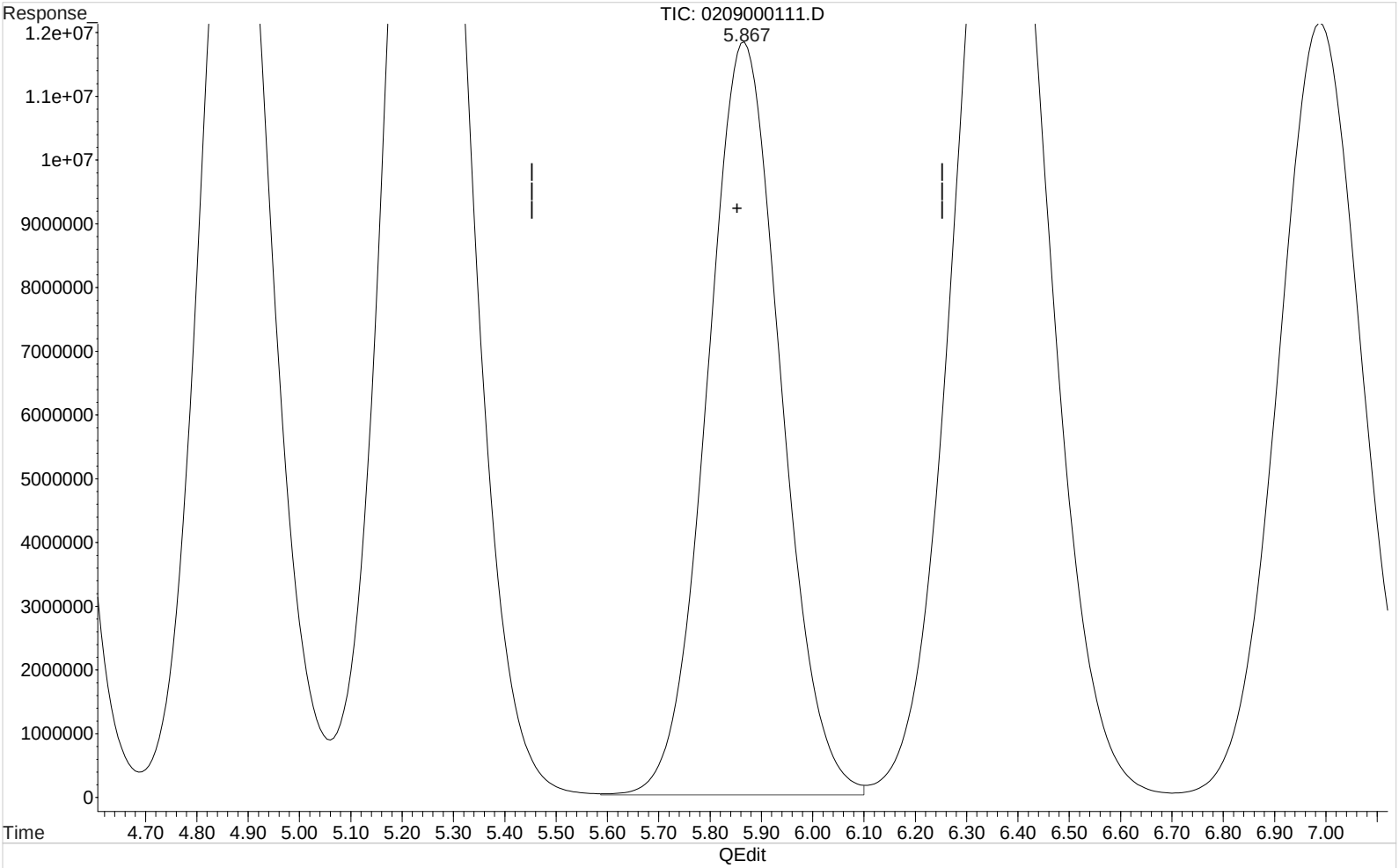
Quantitation Report (Qedit)

(b) (6)
1st 2/13/17
2n 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:26:24 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:17:26 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.867min 5035.938 ug/L m

response 118315059

Manual Integration:

After

BLC

02/13/17

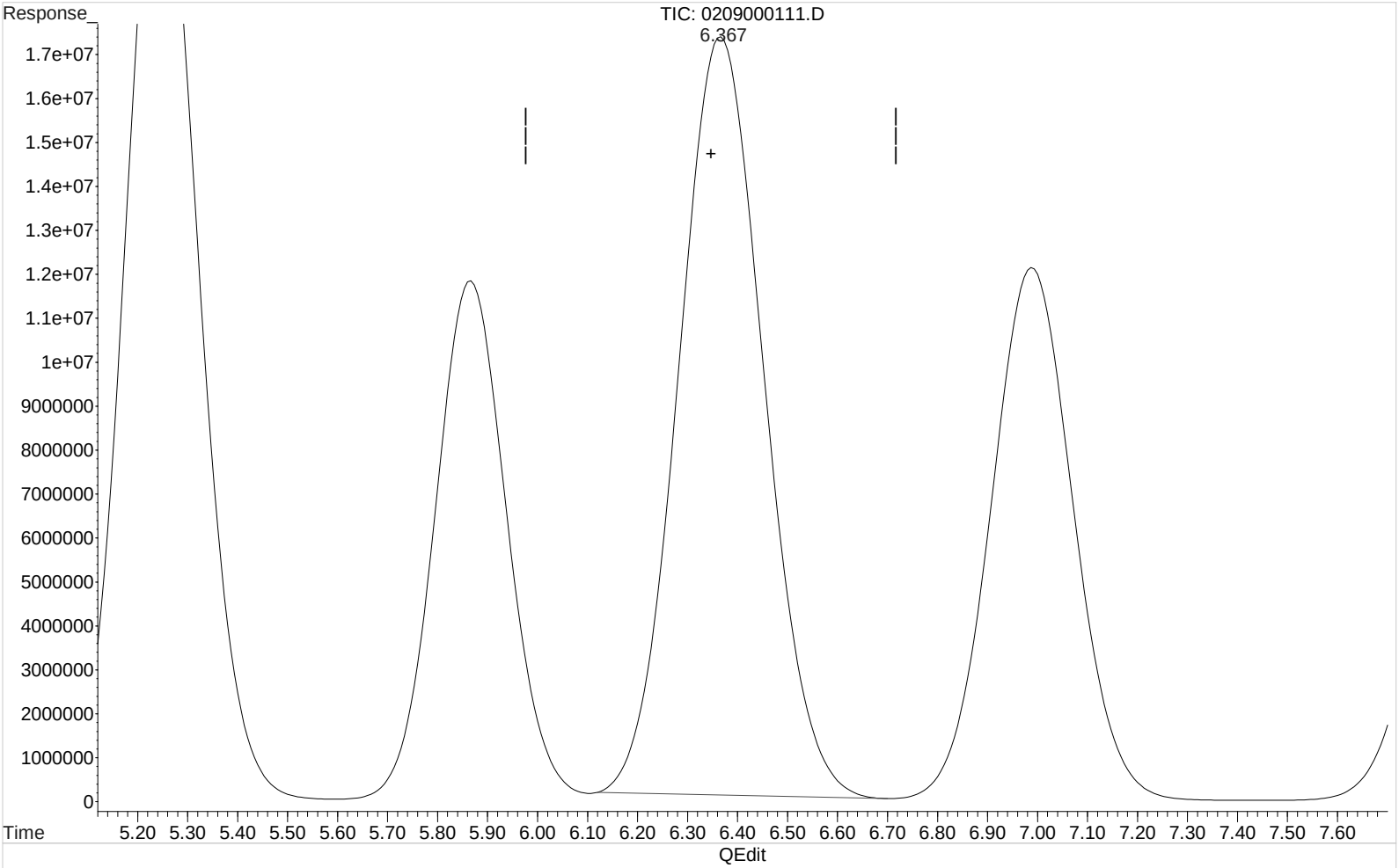
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:26:24 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:17:26 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(7) 2-Amino-4,6-DNT (T)

6.367min 5019.922 ug/L

response 205647048

Manual Integration:

Before

02/13/17

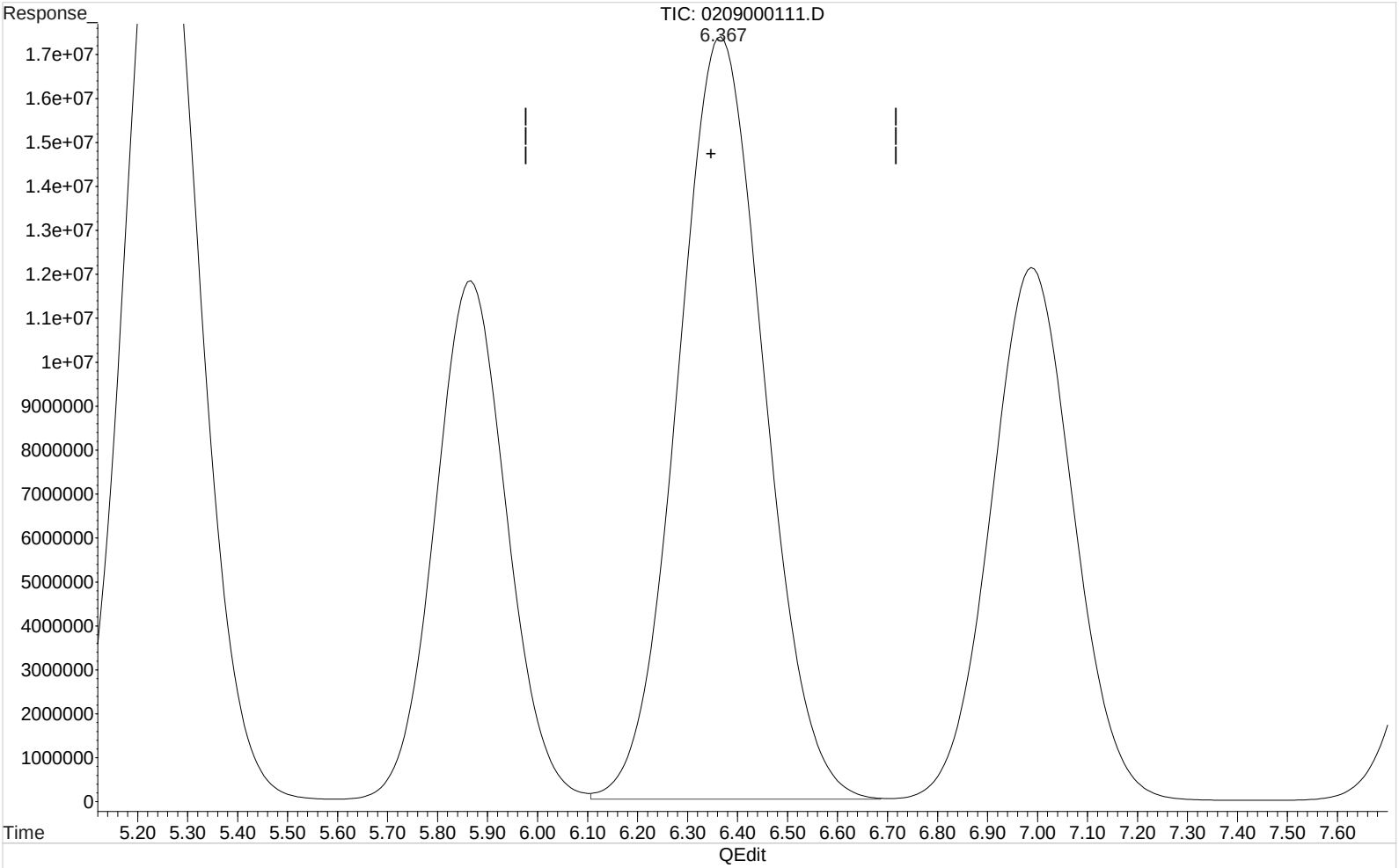
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:26:24 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:17:26 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.367min 5091.027 ug/L m

response 208559971

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:17:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds							
11)	S	1-Chloro-3-Nitrobenzene	8.147	257923438	10038.822	ug/L	m
Target Compounds							
1)	T	HMX	2.560	156330222	10330.871	ug/L	
2)	T	RDX	2.807	177001774	10216.476	ug/L	
3)	T	Nitrobenzene	4.493	370376696	10237.897	ug/L	
4)	T	3,5-Dinitroaniline	5.247	458842323	10169.818	ug/L	m
5)	T	4-Amino-2,6-DNT	4.873	313989796	10243.922	ug/L	m
6)	T	2-NT	5.867	236863088	10164.931	ug/L	m
7)	T	2-Amino-4,6-DNT	6.367	413821685	10205.169	ug/L	m
8)	T	3-NT	6.987	279071838	10264.235	ug/L	m
9)	T	1,3-DNB	9.140	552448178	10255.466	ug/L	
10)	T	4-NT	7.853	225919896	10001.598	ug/L	m
12)	T	2,6-DNT	8.827	240477250	10021.333	ug/L	
13)	T	2,4-DNT	14.813	504050621	10159.346	ug/L	
14)	T	Tetryl	13.000	305802840	10330.977	ug/L	
15)	T	1,3,5-TNB	19.813	409388283	10169.760	ug/L	
16)	T	2,4,6-TNT	20.800	385651394	10247.235	ug/L	

(f)=RT Delta > 1/2 Window (m)=manual int.

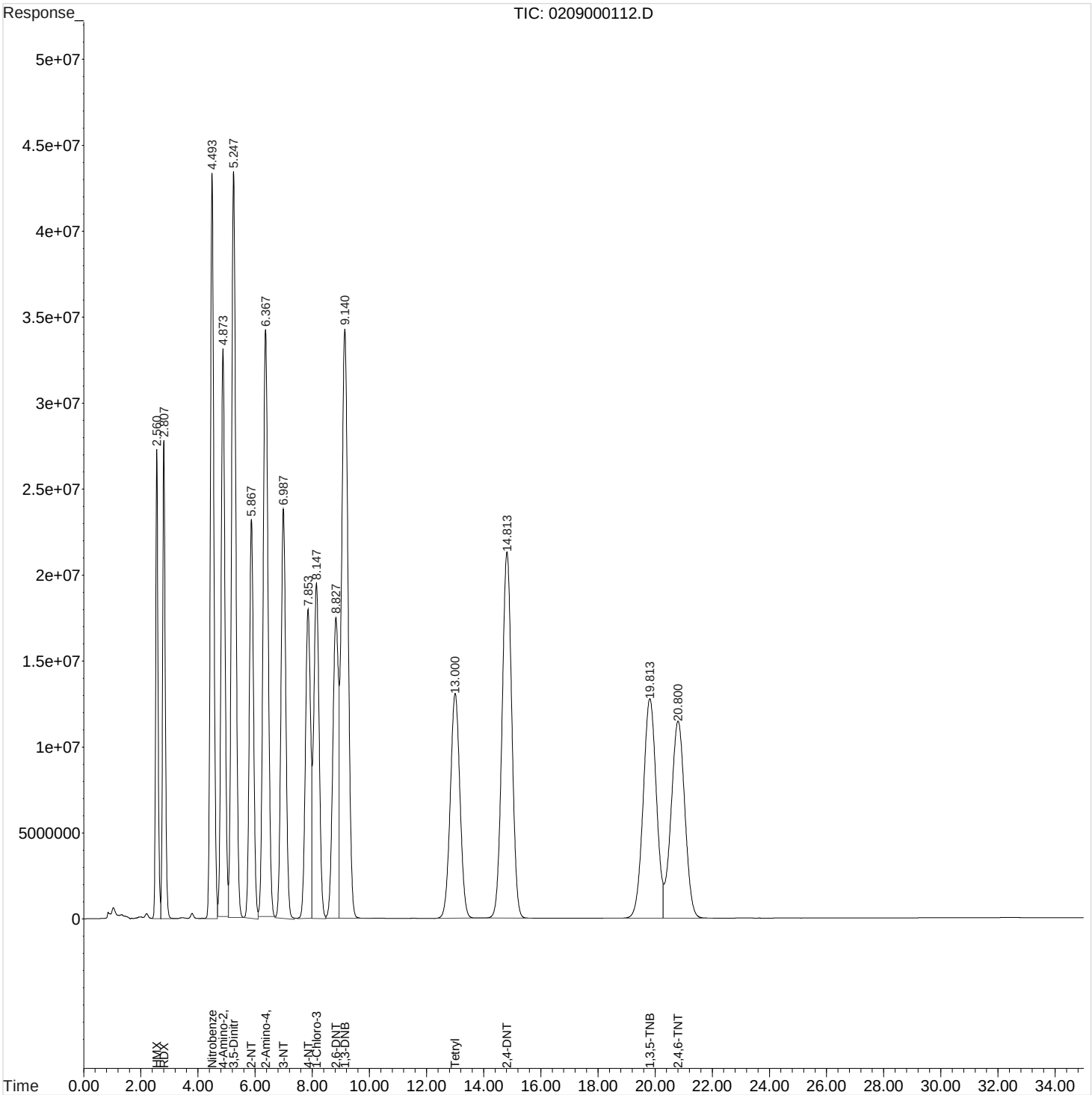
Quantitation Report (QT Reviewed)

(b)(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:17:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



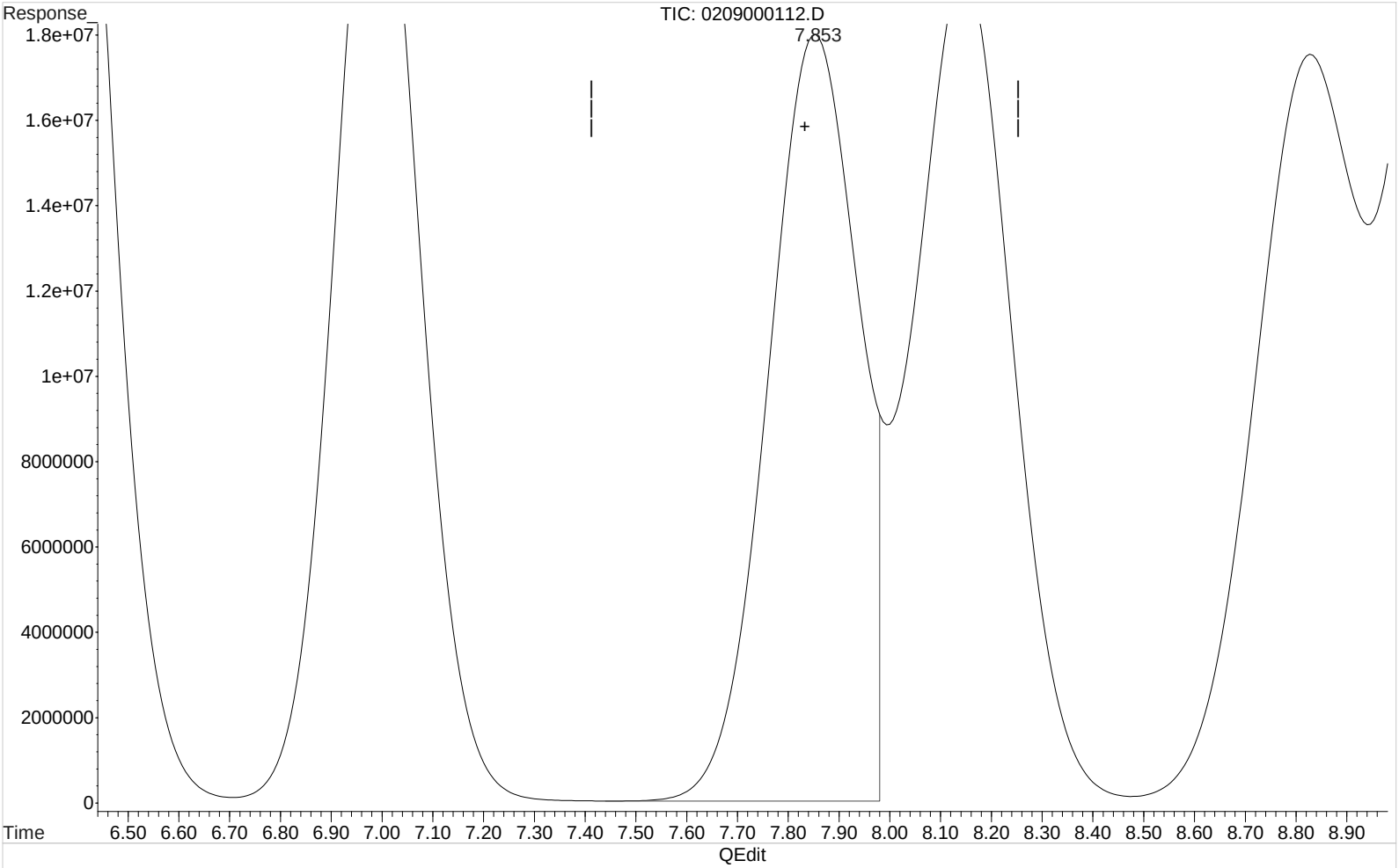
Quantitation Report (Qedit)

(b) (6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.853min 9829.535 ug/L

response 222033281

Manual Integration:

Before

02/13/17

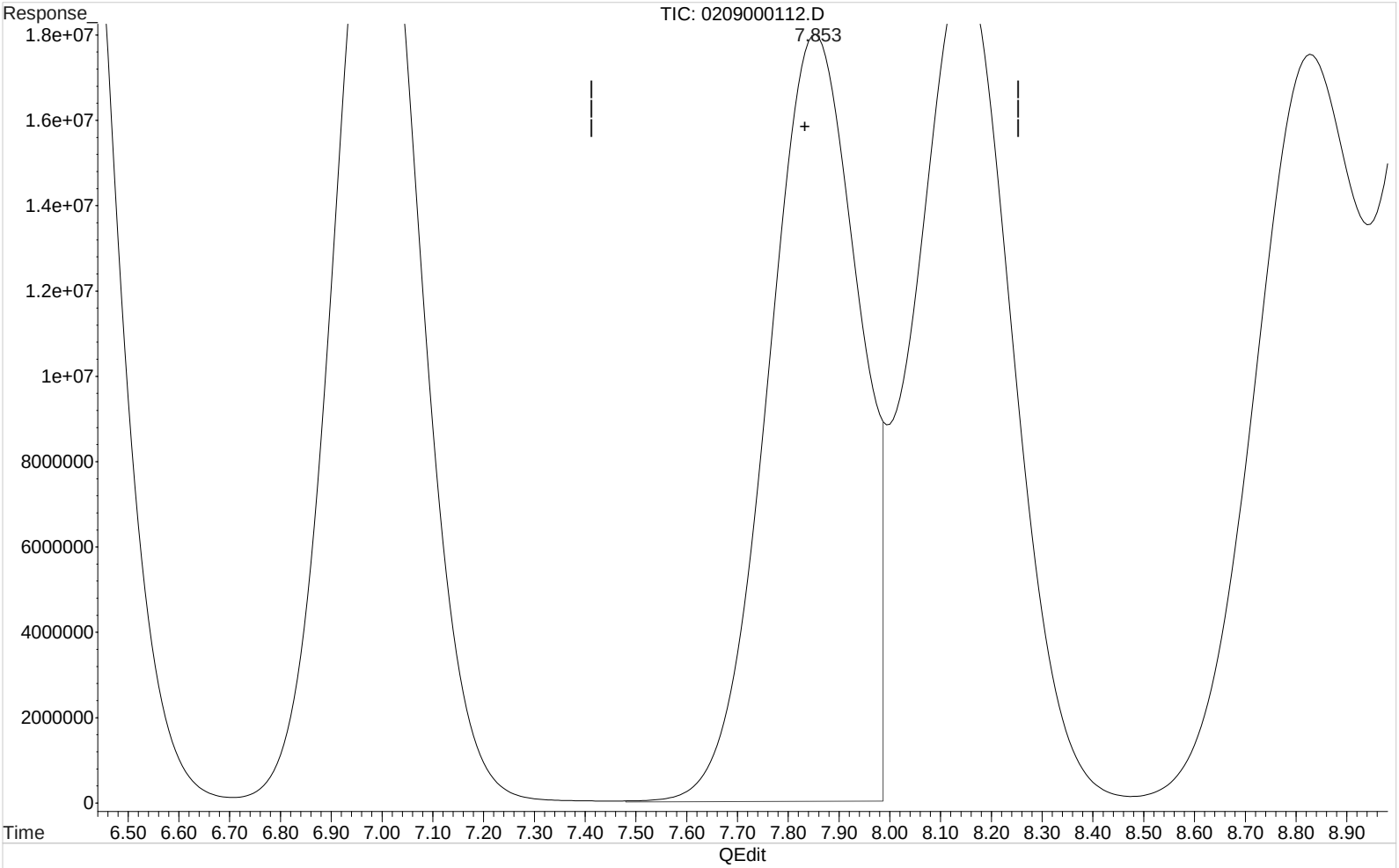
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.853min 10001.598 ug/L m

response 225919896

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

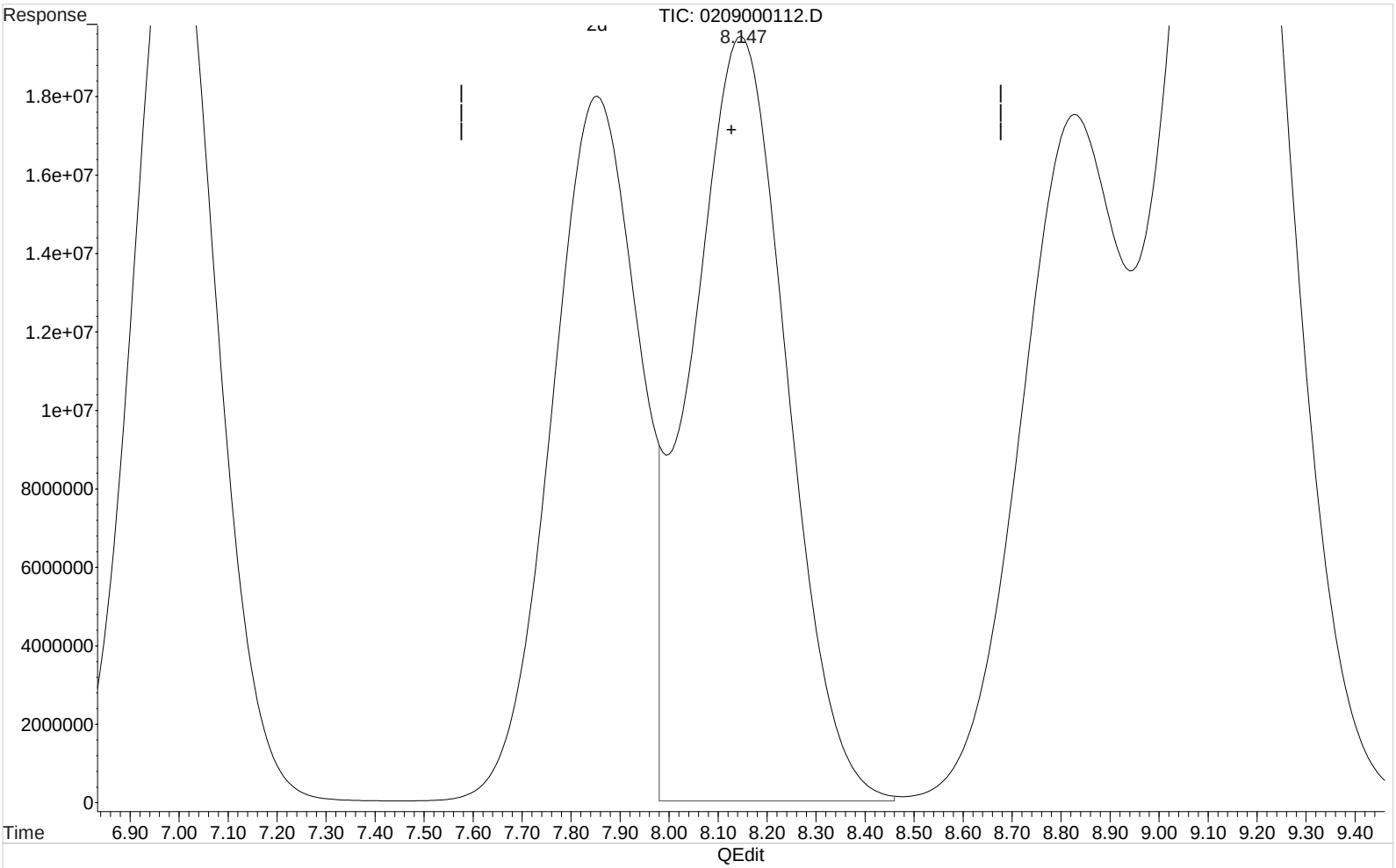
Quantitation Report (Qedit)

(b) (6)
1st 2/13/17
2n 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(11) 1-Chloro-3-Nitrobenzene (S)

8.147min 10288.229 ug/L

response 264331346

Manual Integration:

Before

02/13/17

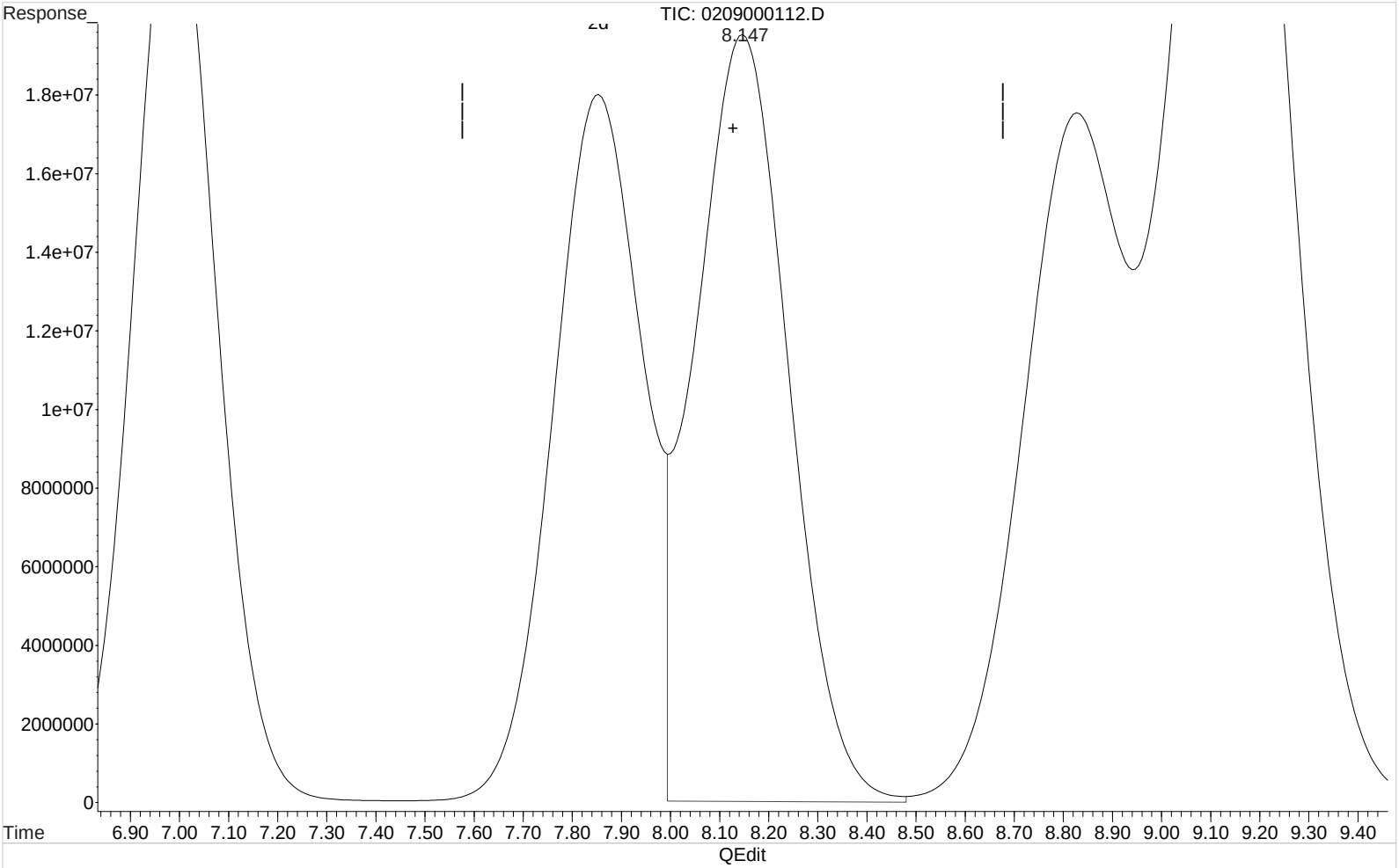
(+) = Expected Retention Time

(b)
(6)
1st 02/13/17
2n 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(11) 1-Chloro-3-Nitrobenzene (S)

8.147min 10038.822 ug/L m

response 257923438

Manual Integration:

After

BLC

02/13/17

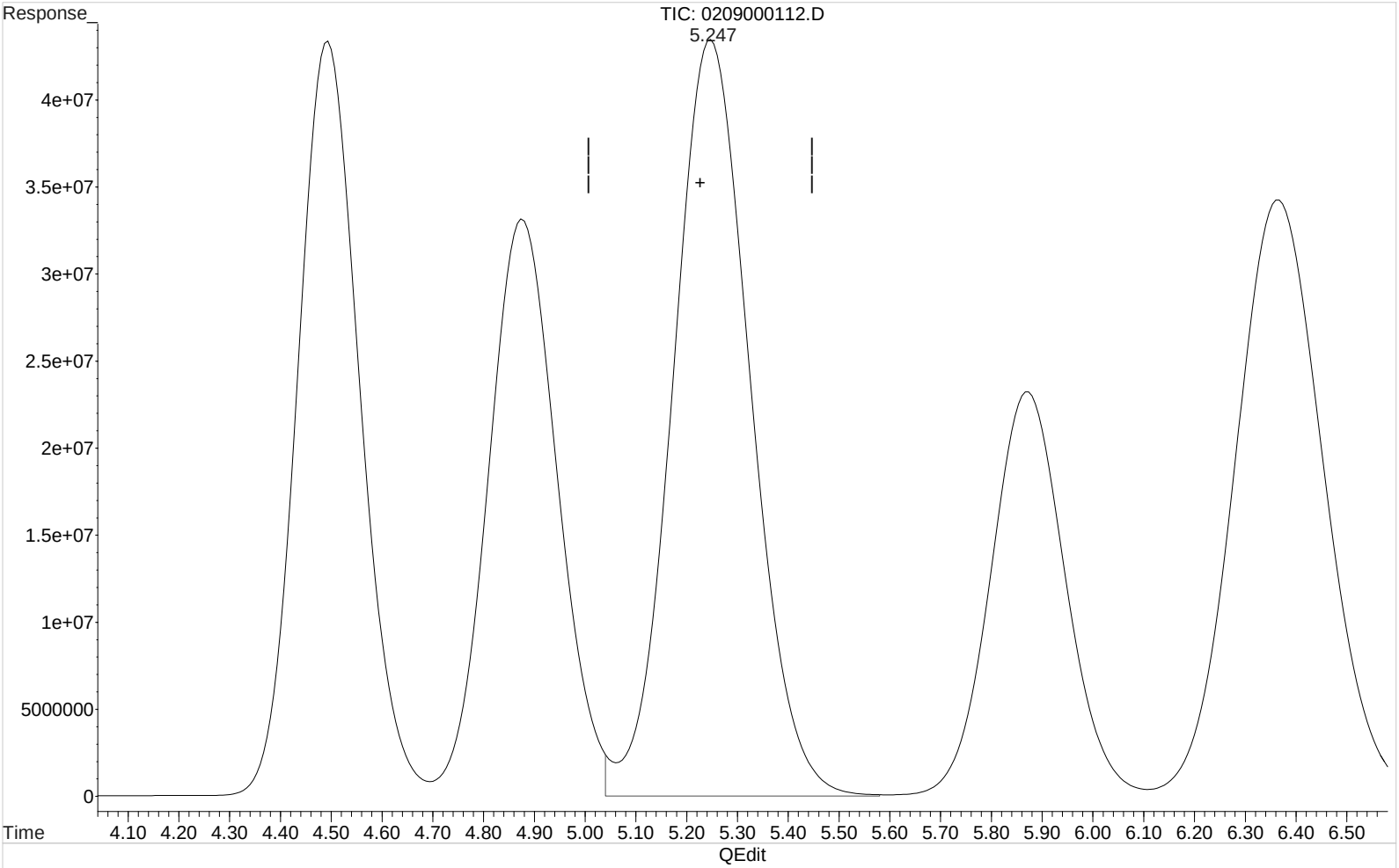
(+) = Expected Retention Time

(b) (6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(4) 3,5-Dinitroaniline (T)

5.247min 10267.538 ug/L

response 463251246

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

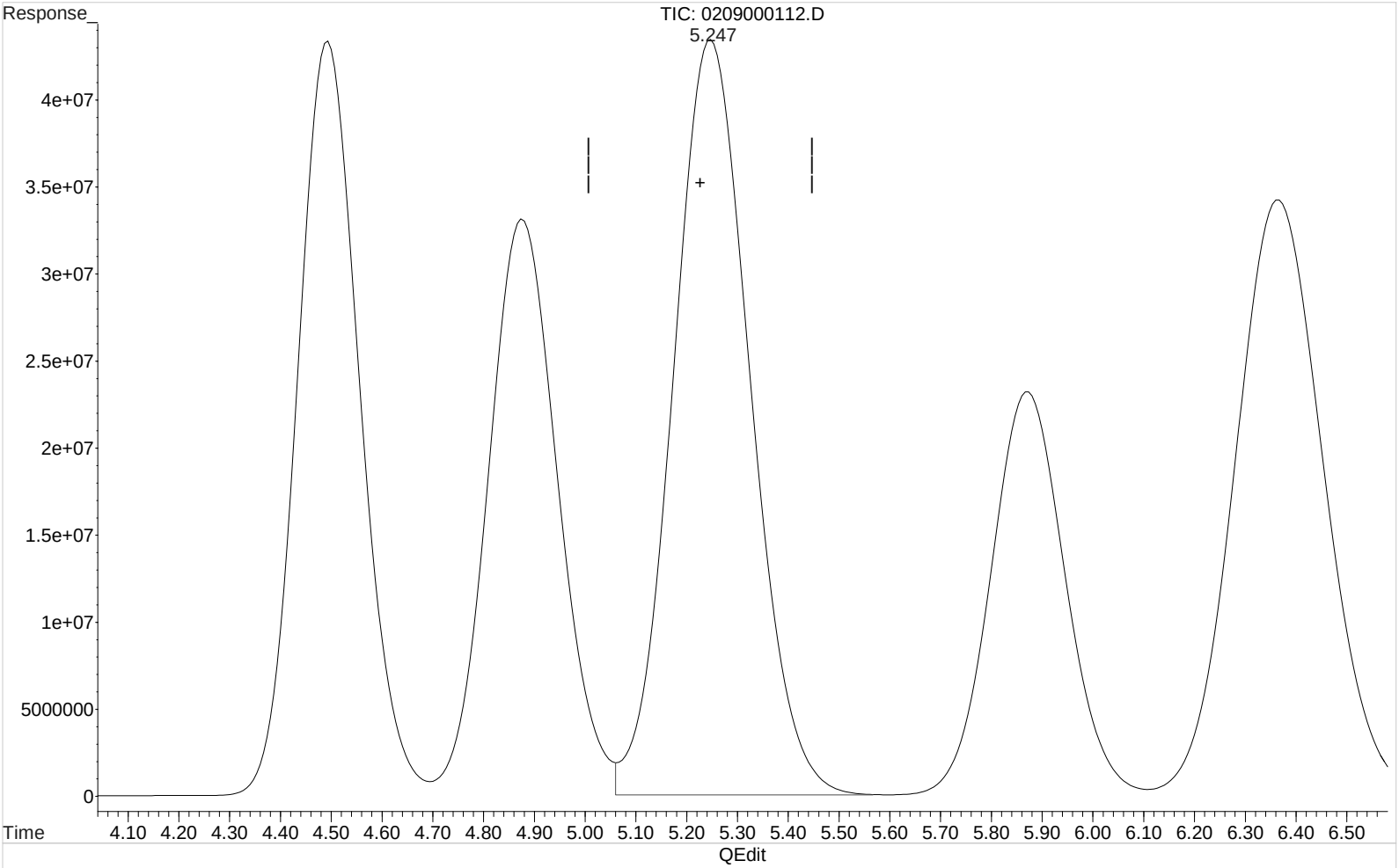
Quantitation Report (Qedit)

(b) (6)
1st [redacted] 02/13/17
2n [redacted] 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(4) 3,5-Dinitroaniline (T)

5.247min 10169.818 ug/L m

response 458842323

Manual Integration:

After

BLC

02/13/17

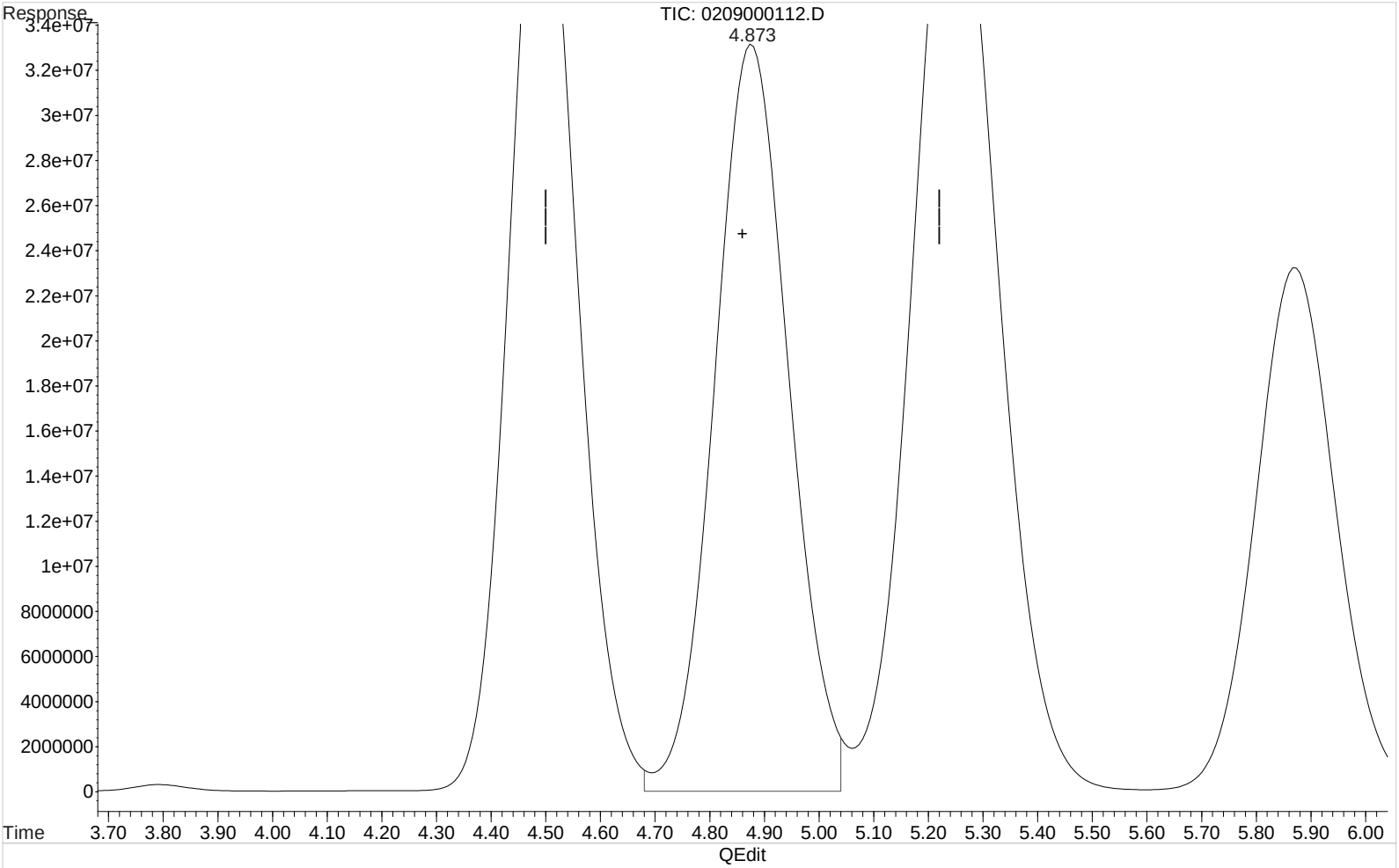
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(5) 4-Amino-2,6-DNT (T)

4.873min 10247.500 ug/L

response 314099468

Manual Integration:

Before

02/13/17

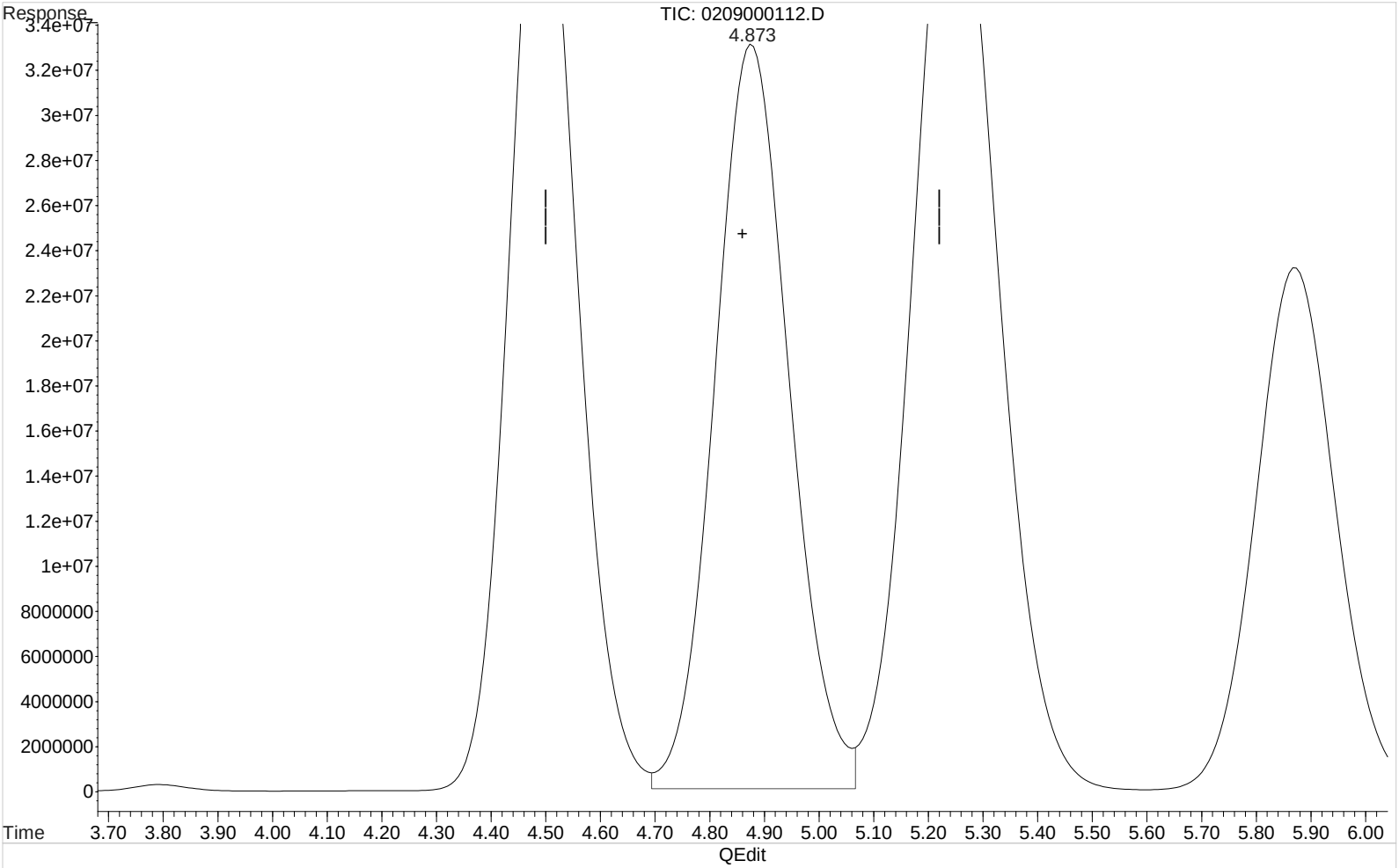
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(5) 4-Amino-2,6-DNT (T)

4.873min 10243.922 ug/L m

response 313989796

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

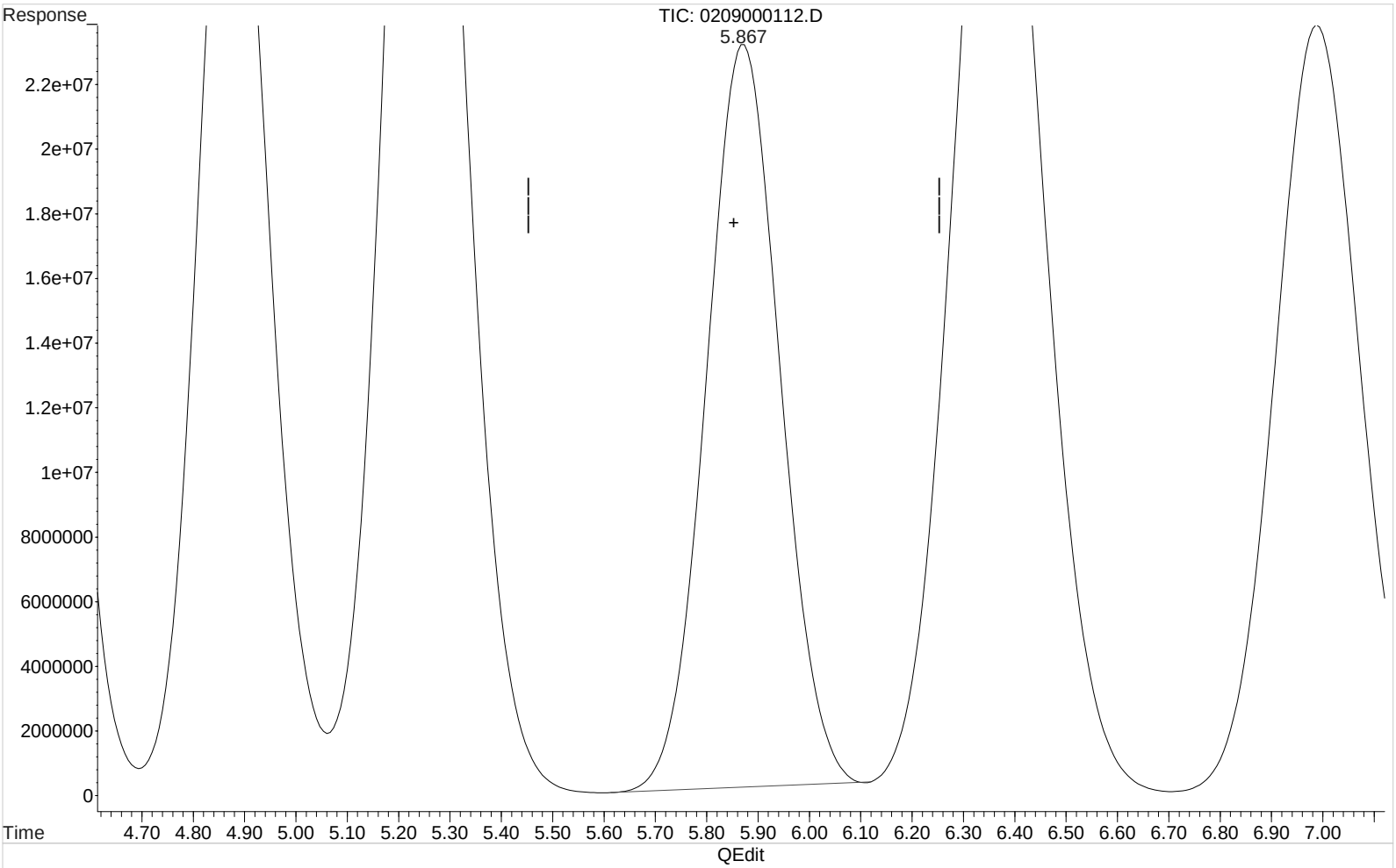
Quantitation Report (Qedit)

(b)
(6)
1st 02/13/17
2n 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.867min 9878.222 ug/L

response 230182186

Manual Integration:

Before

02/13/17

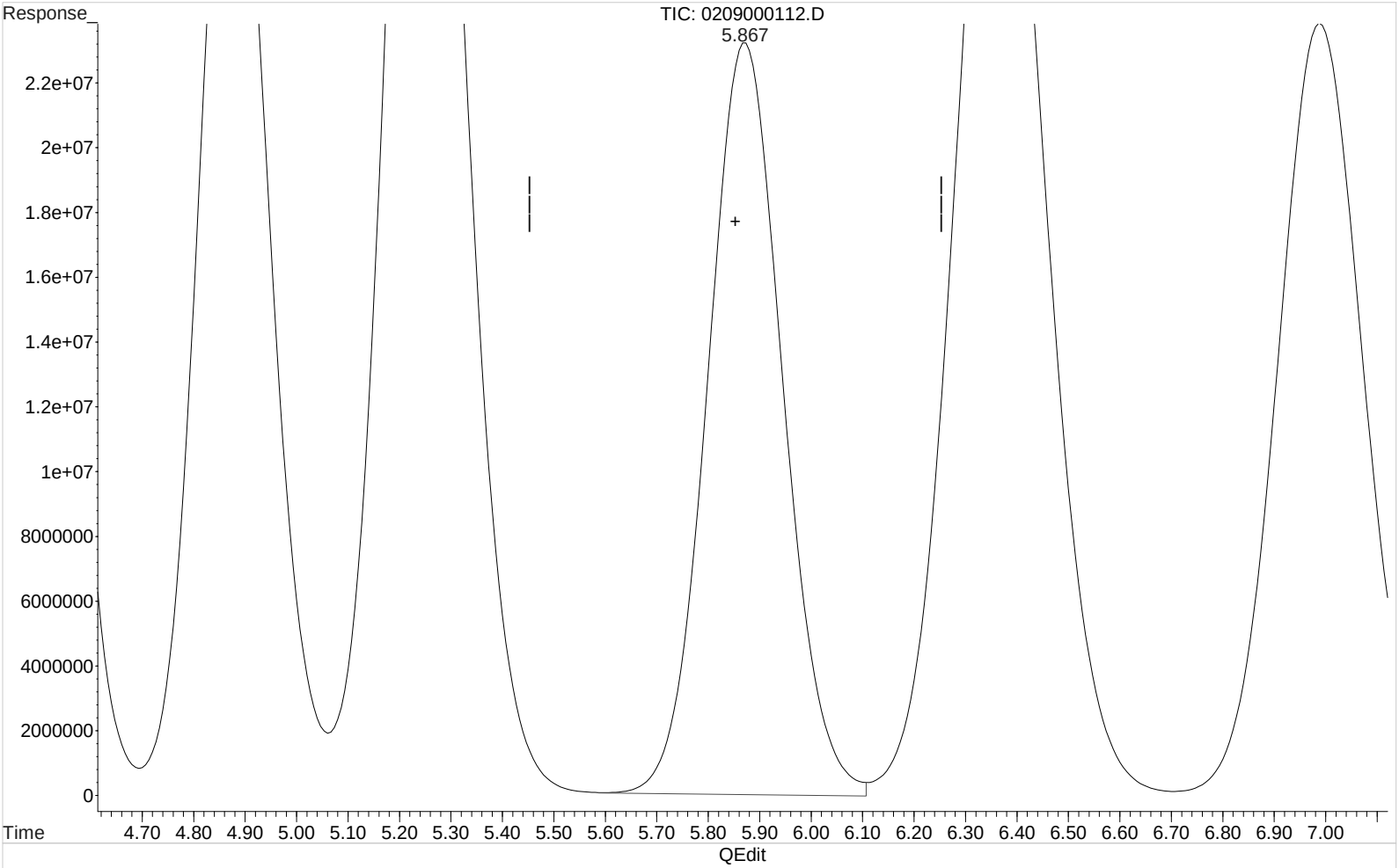
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.867min 10164.931 ug/L m

response 236863088

Manual Integration:

After

BLC

02/13/17

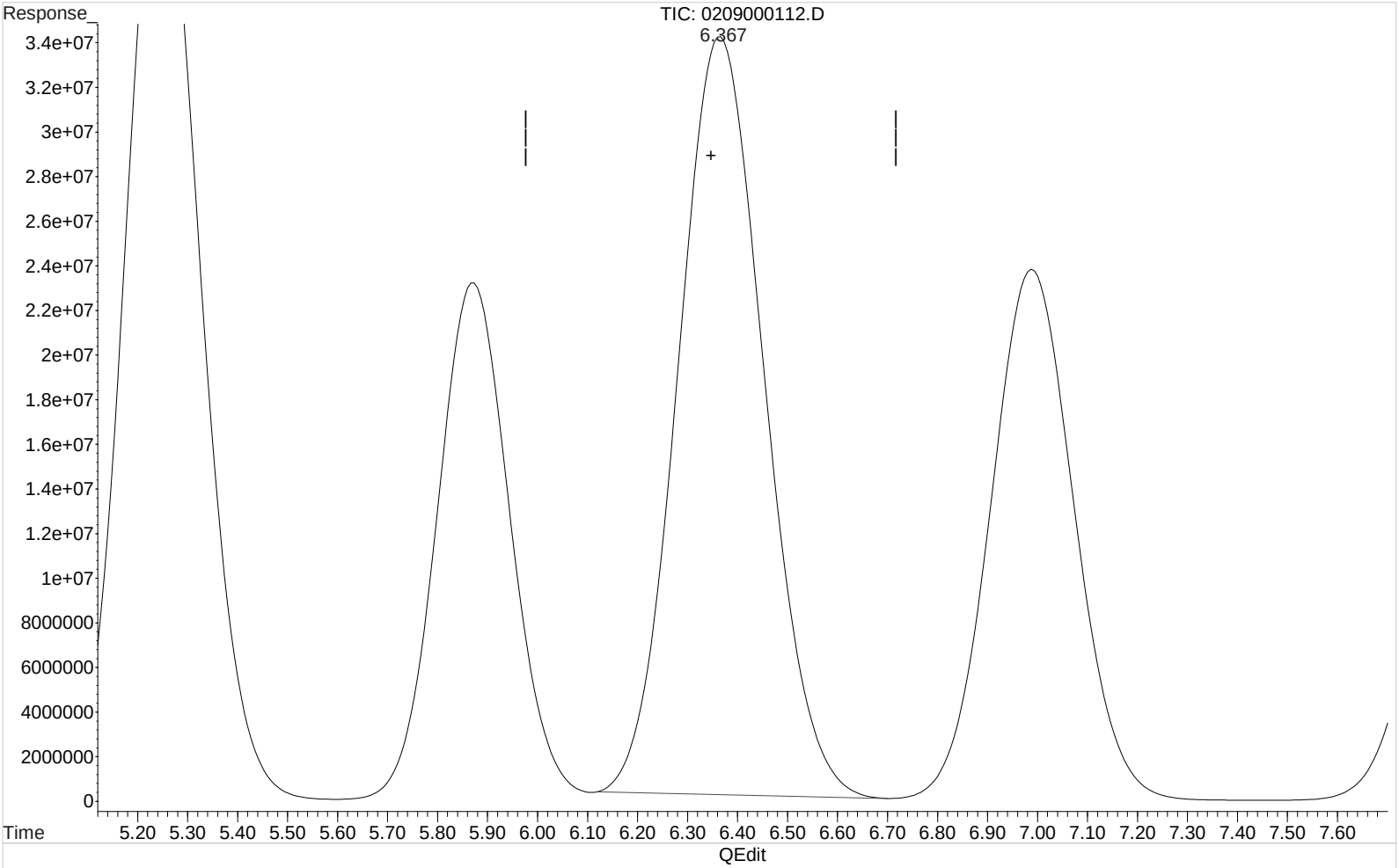
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(7) 2-Amino-4,6-DNT (T)

6.367min 10087.717 ug/L

response 409058973

Manual Integration:

Before

02/13/17

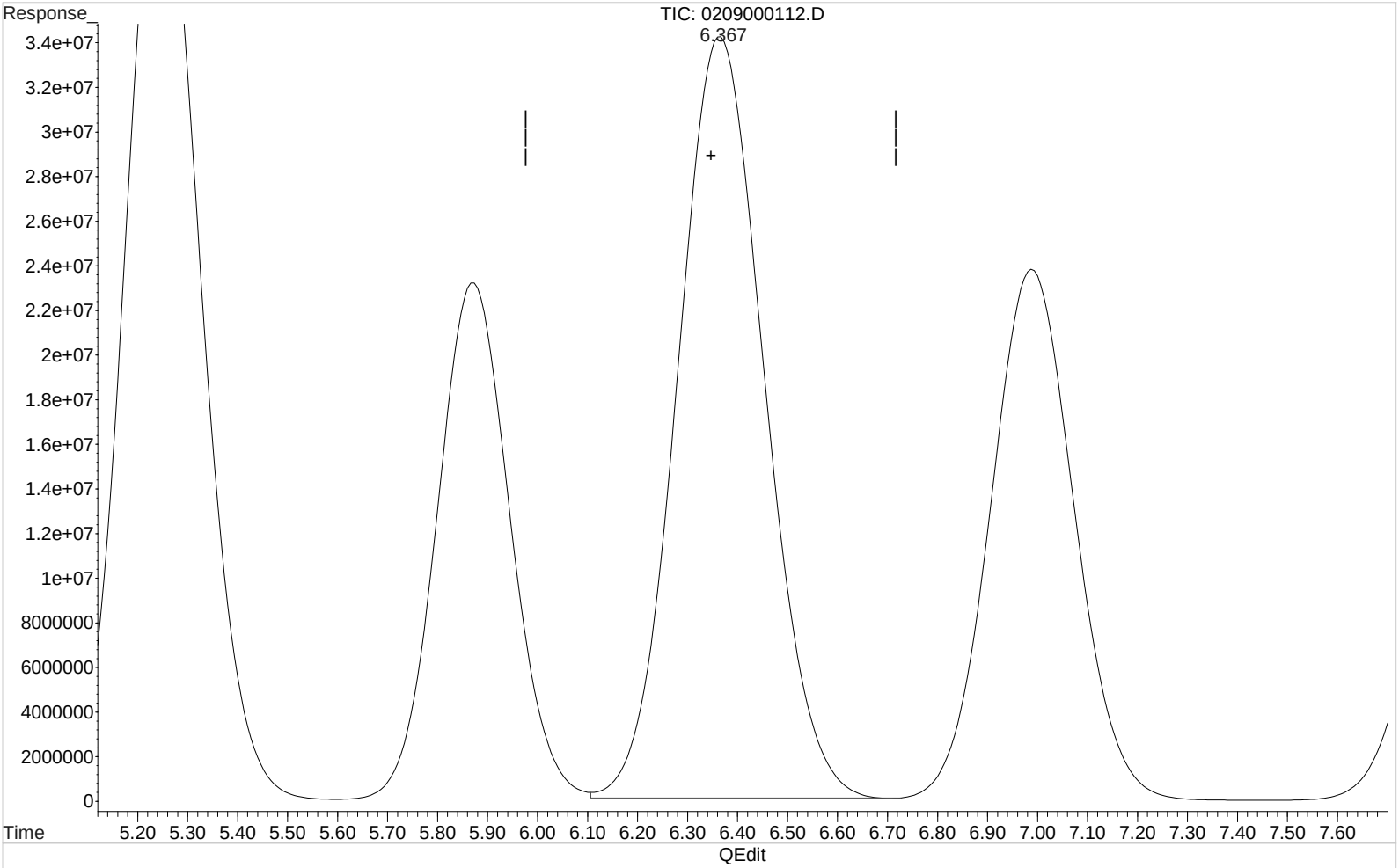
(+) = Expected Retention Time

(b)
(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(7) 2-Amino-4,6-DNT (T)

6.367min 10205.169 ug/L m

response 413821685

Manual Integration:

After

BLC

02/13/17

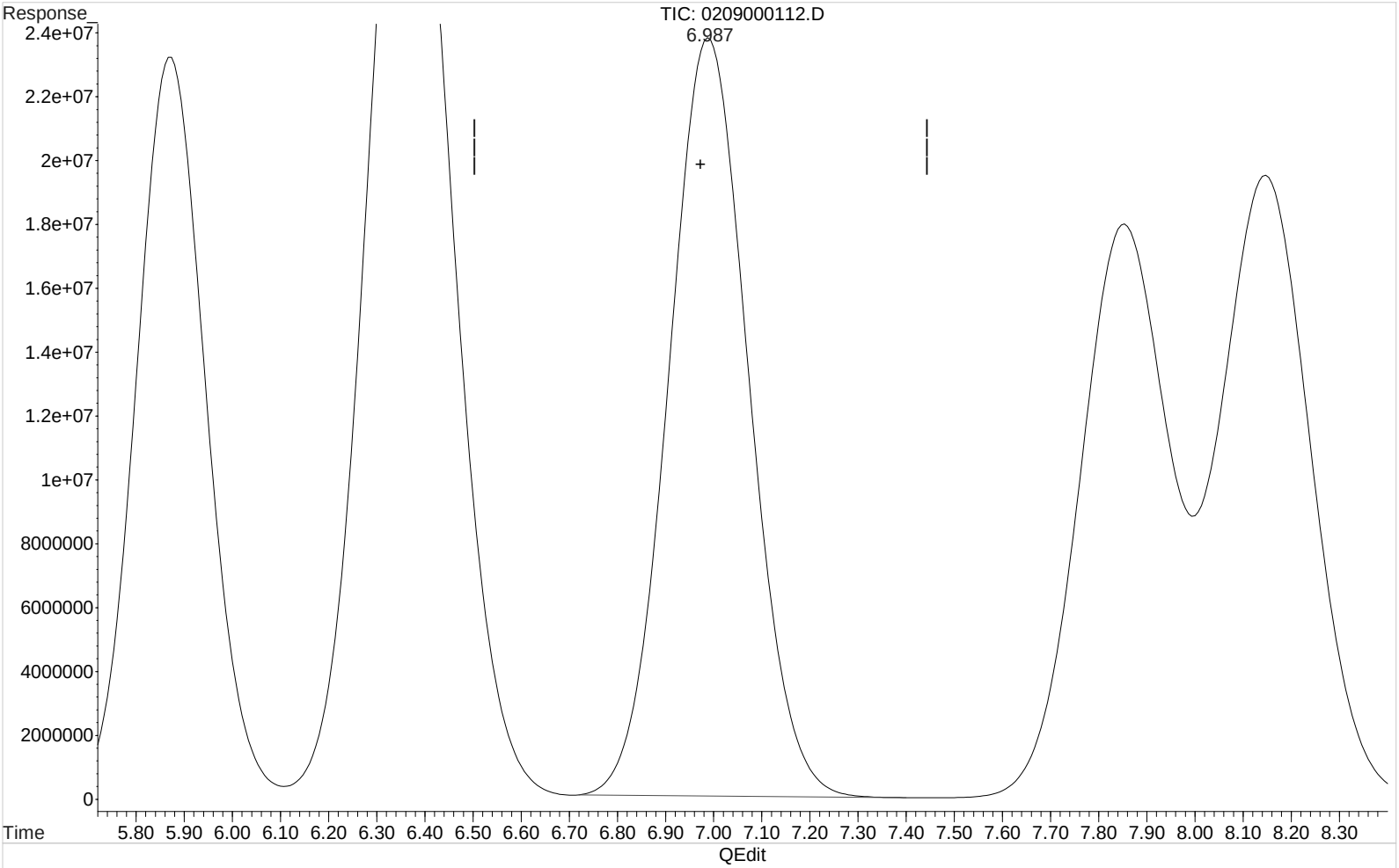
(+) = Expected Retention Time

1st (b)(6) 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(8) 3-NT (T)

6.987min 10153.407 ug/L

response 276058564

Manual Integration:

Before

02/13/17

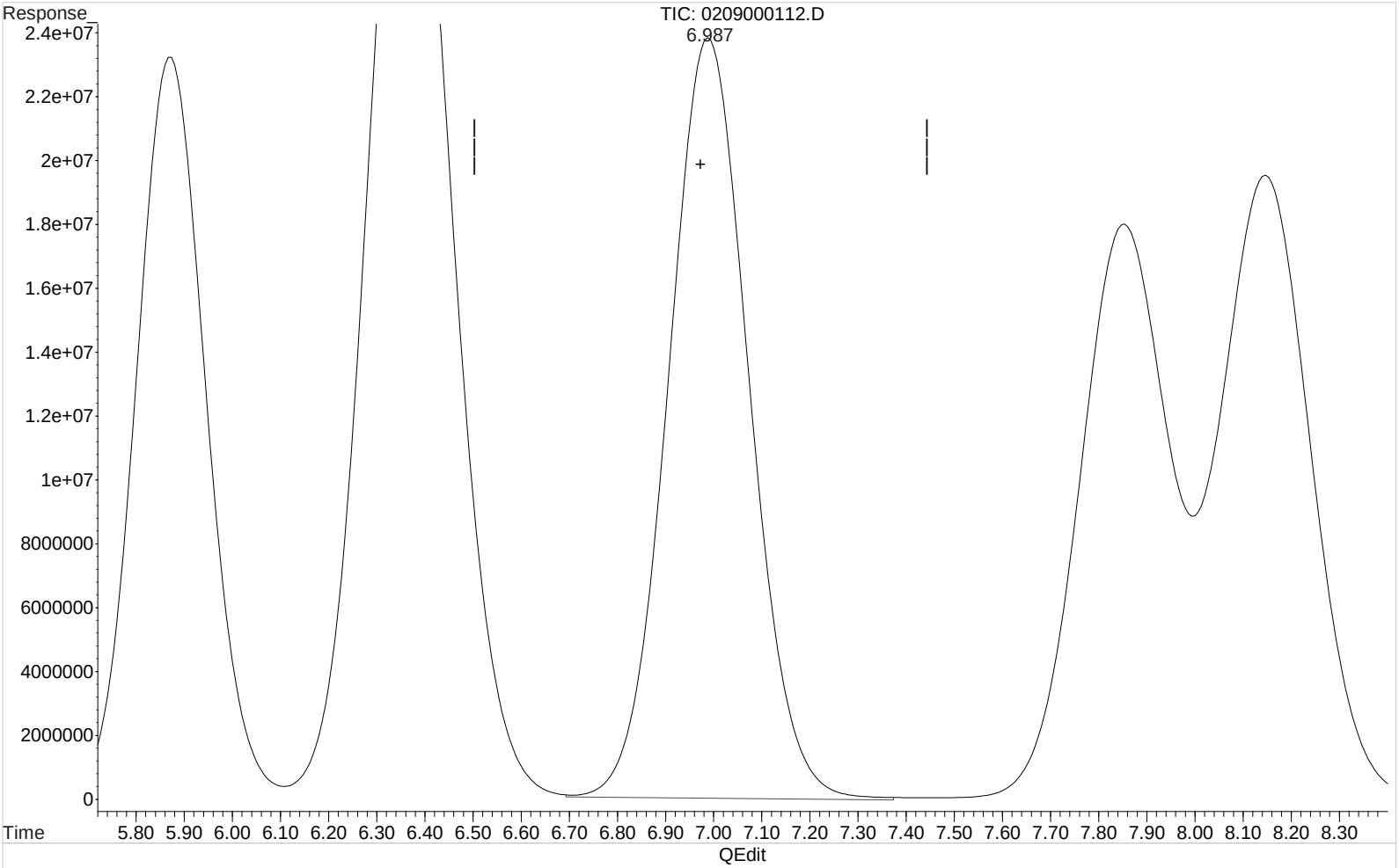
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(8) 3-NT (T)

6.987min 10264.235 ug/L m

response 279071838

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

(b) (6)
1st 2/13/17
2n 2/17/17

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:12:35 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds							
11)	S	1-Chloro-3-Nitrobenzene	8.127	513851991	NoCal	ug/L	
Target Compounds							
1)	T	HMX	2.553f	302646741	NoCal	ug/L	m
2)	T	RDX	2.800f	346502613	NoCal	ug/L	m
3)	T	Nitrobenzene	4.480	723540605	NoCal	ug/L	
4)	T	3,5-Dinitroaniline	5.227	902360936	NoCal	ug/L	
5)	T	4-Amino-2,6-DNT	4.860	613026515	NoCal	ug/L	
6)	T	2-NT	5.853	466039716	NoCal	ug/L	
7)	T	2-Amino-4,6-DNT	6.347	811004098	NoCal	ug/L	m
8)	T	3-NT	6.973	543775210	NoCal	ug/L	m
9)	T	1,3-DNB	9.120	1077373089	NoCal	ug/L	m
10)	T	4-NT	7.833	451767608	NoCal	ug/L	
12)	T	2,6-DNT	8.807	479930654	NoCal	ug/L	m
13)	T	2,4-DNT	14.800	992289543	NoCal	ug/L	
14)	T	Tetryl	12.987	592011460	NoCal	ug/L	
15)	T	1,3,5-TNB	19.800f	805109064	NoCal	ug/L	m
16)	T	2,4,6-TNT	20.780f	752693580	NoCal	ug/L	

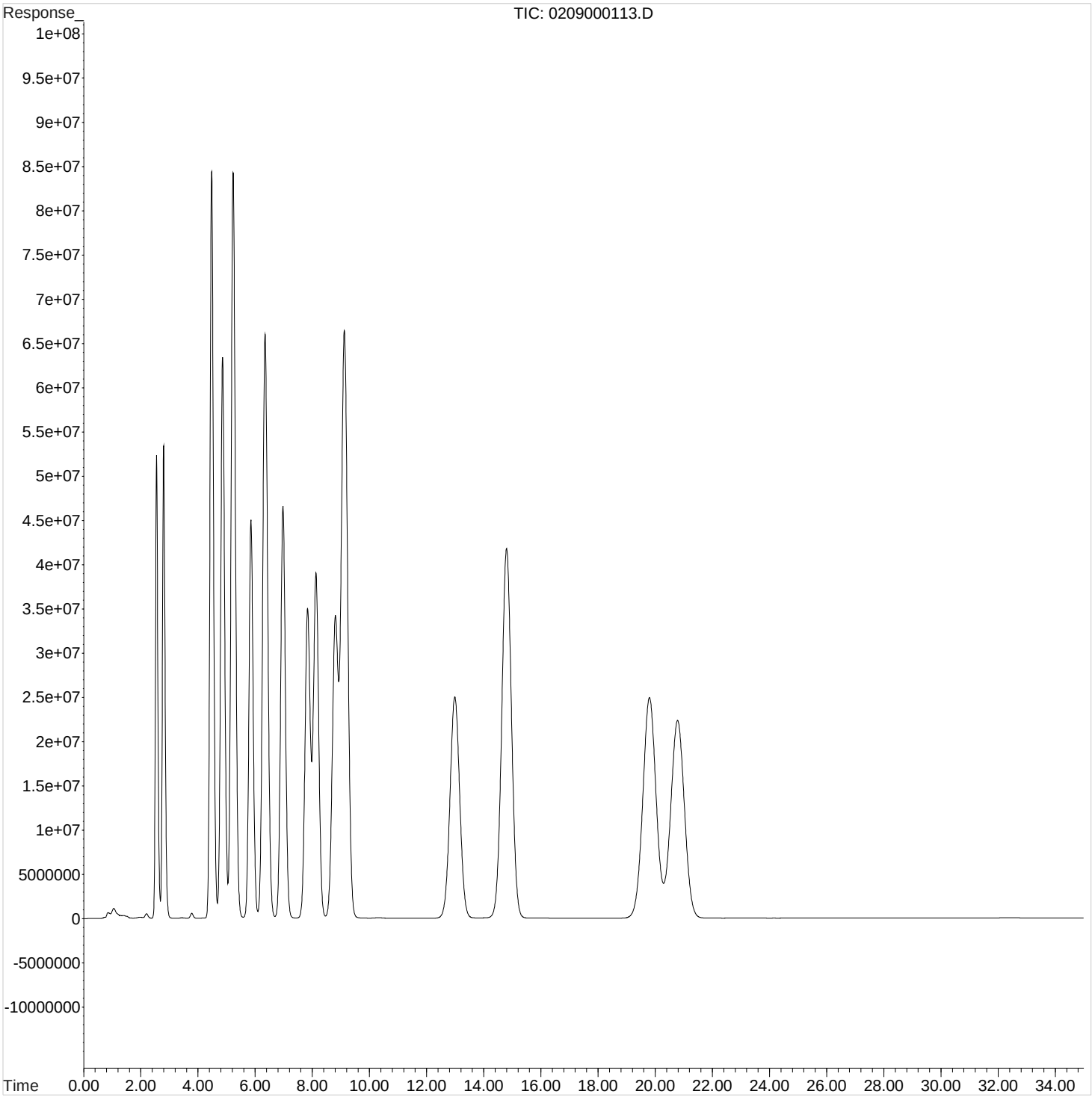
(f)=RT Delta > 1/2 Window (m)=manual int.

(b)(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:12:35 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



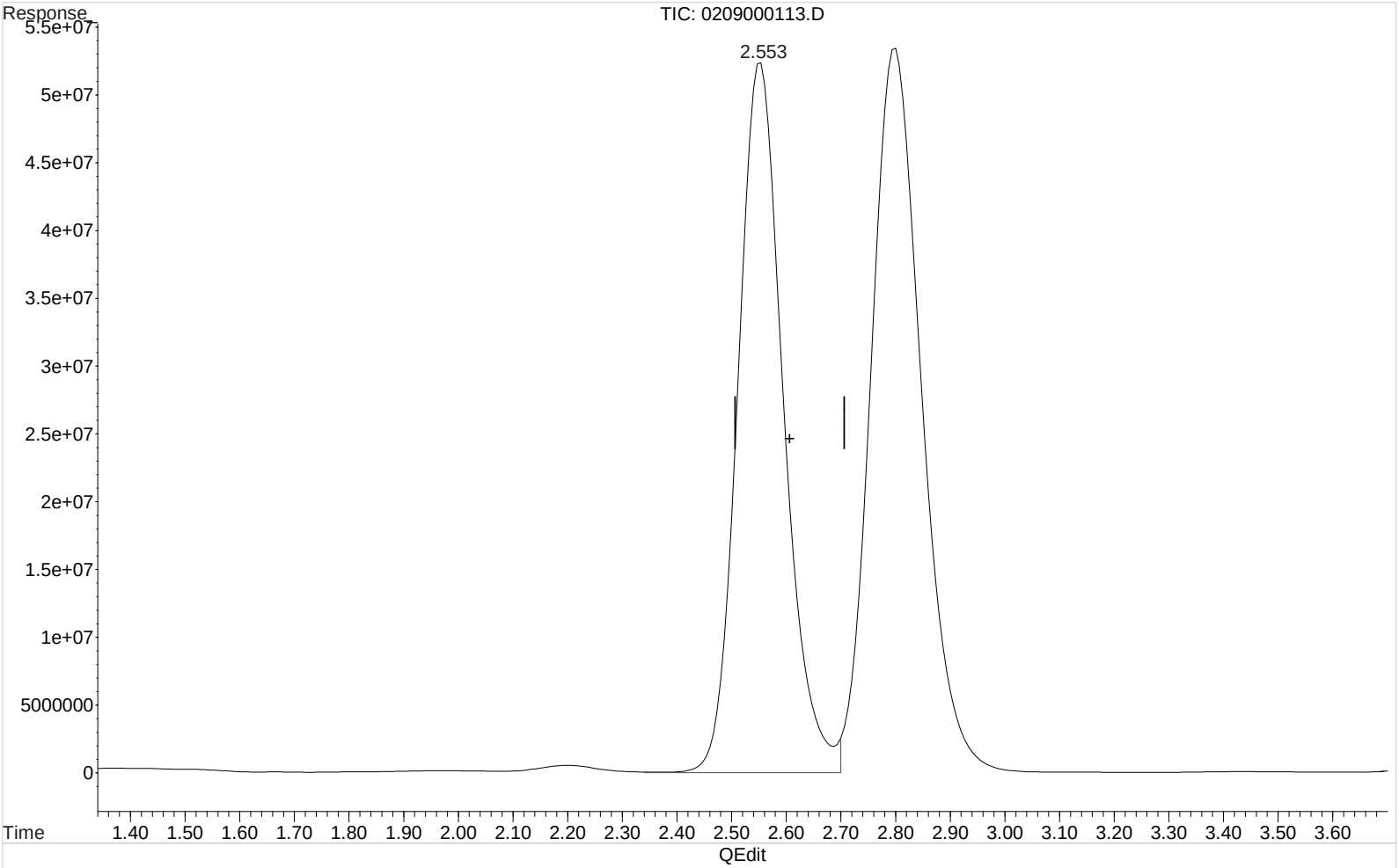
Quantitation Report (Qedit)

(b)(6) 1st 02/13/17 2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:19 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.553min 0.000 ug/L

response 305316401

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

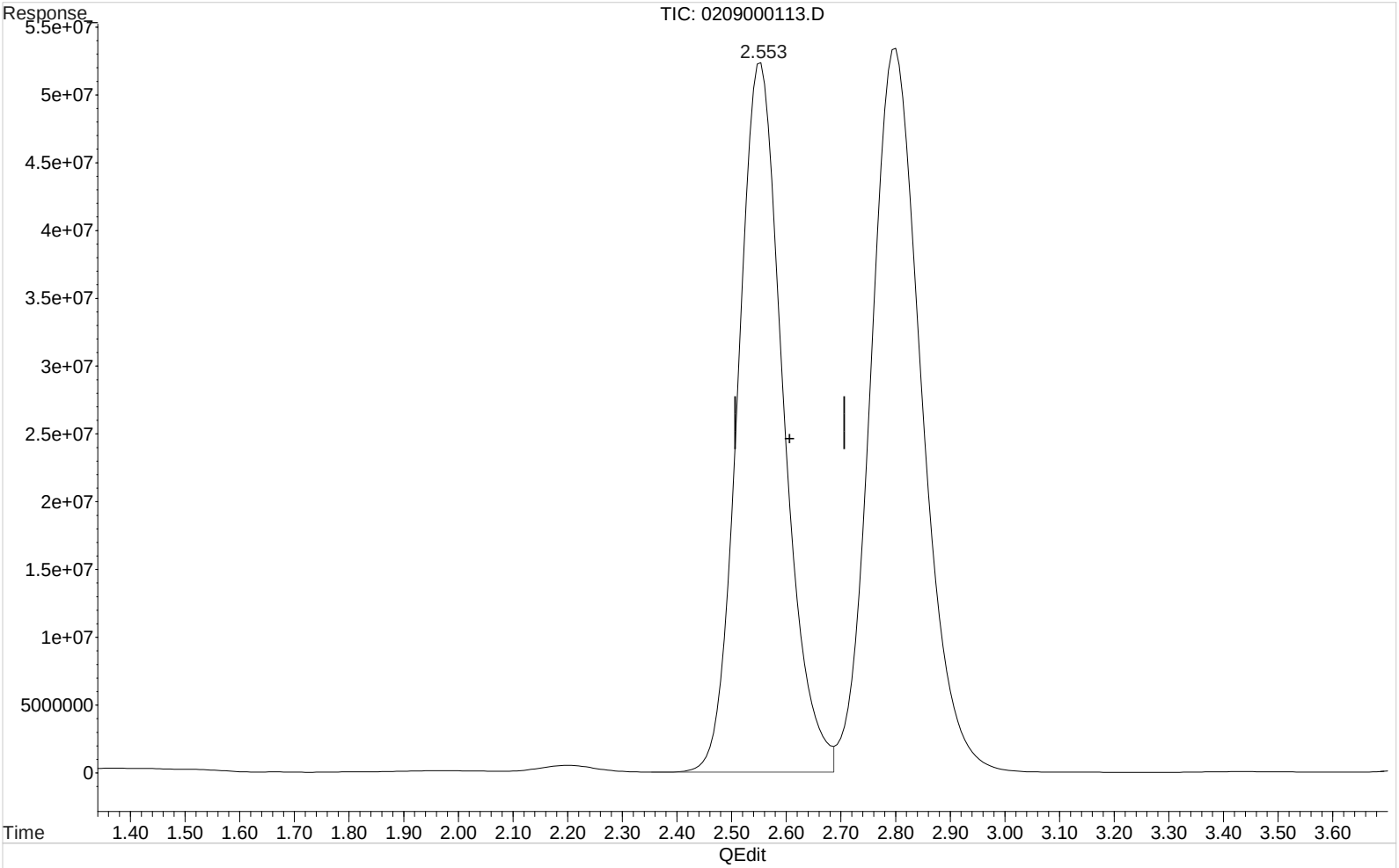
Quantitation Report (Qedit)

1st (b) (6) 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:19 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.553min 0.000 ug/L m

response 302646741

Manual Integration:

After

BLC

02/13/17

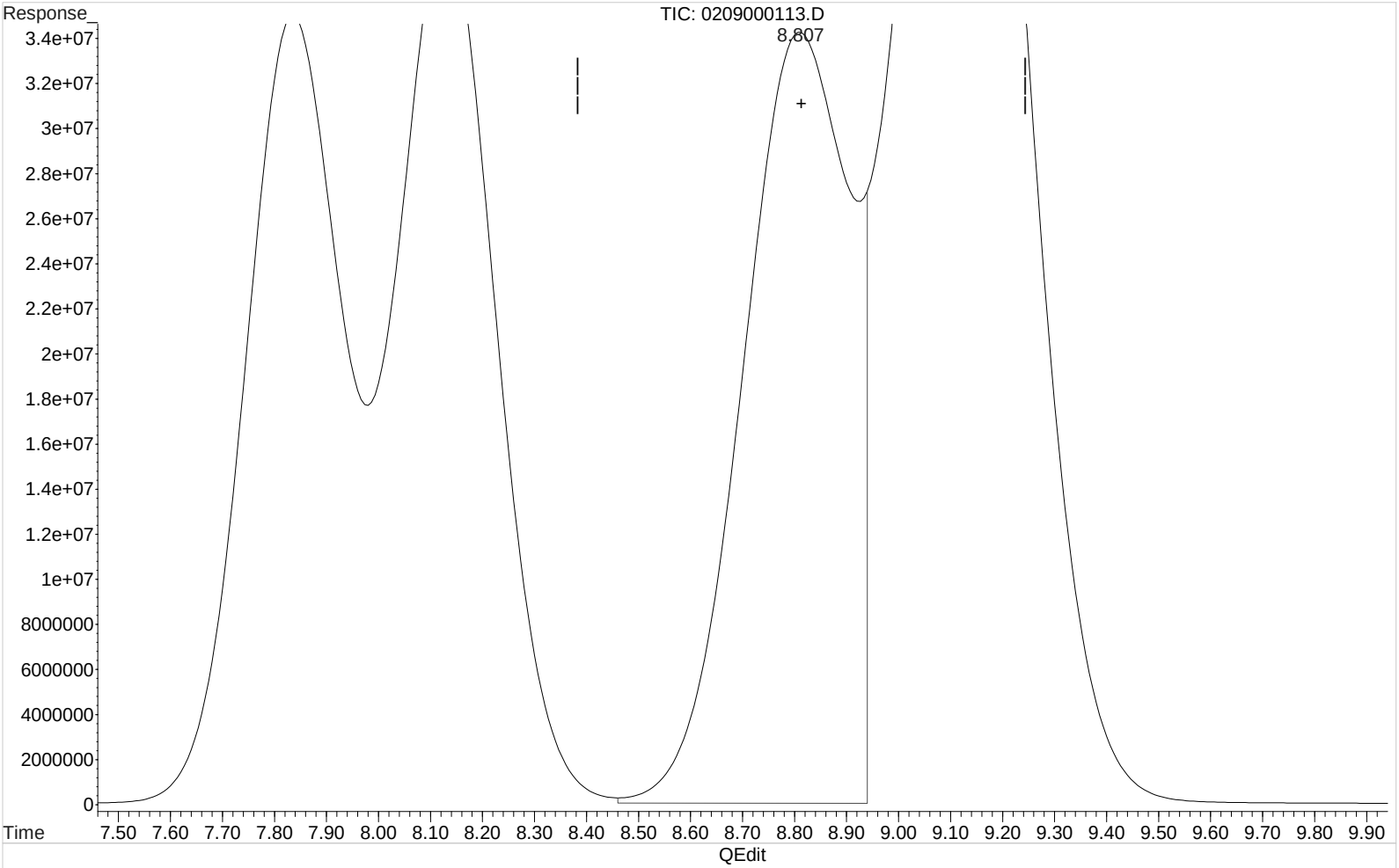
(+) = Expected Retention Time

(b)(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(12) 2,6-DNT (T)

8.807min 0.000 ug/L

response 500177008

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

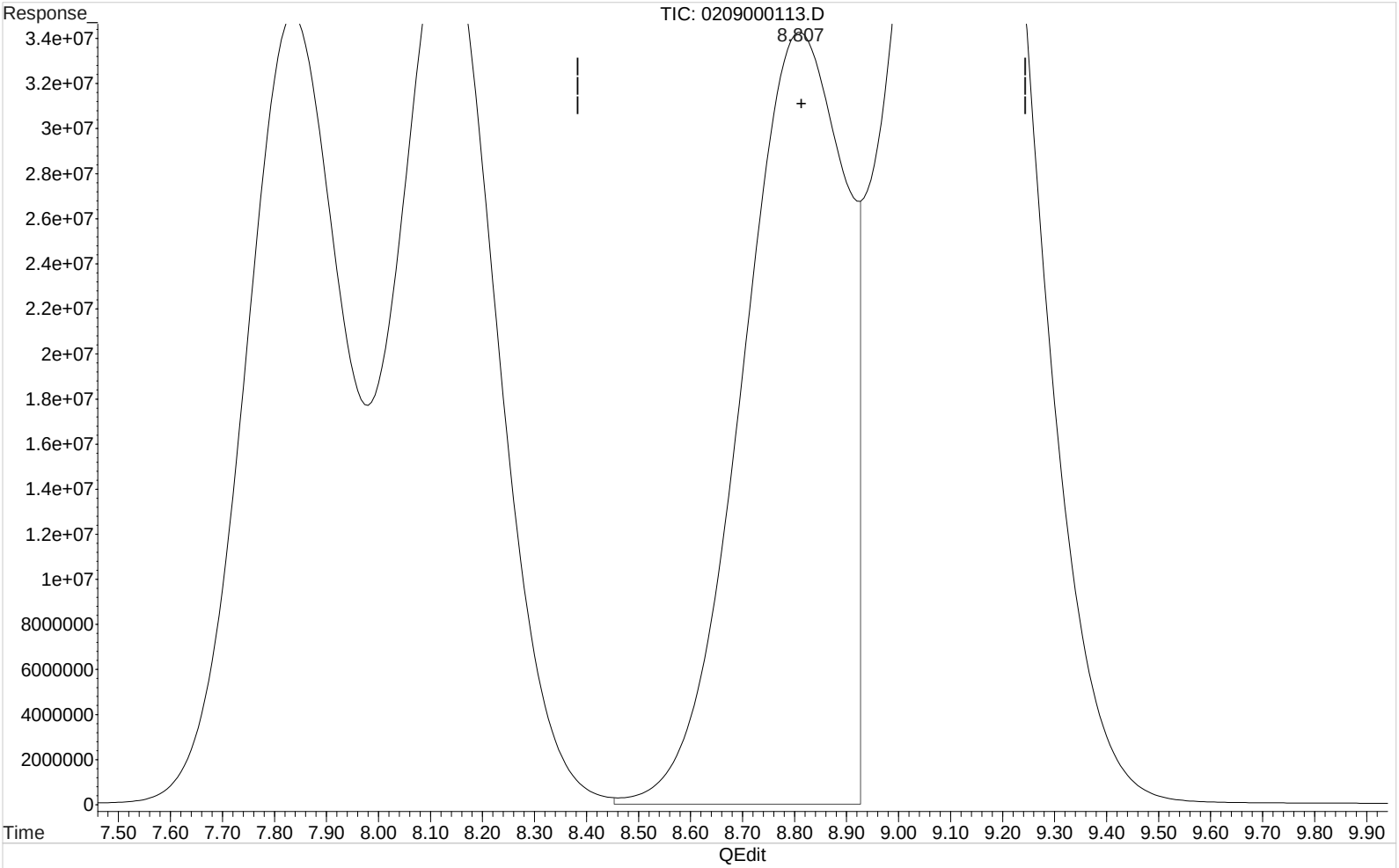
Quantitation Report (Qedit)

(b) (6)
1st /13/17
2n /17/17

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(12) 2,6-DNT (T)

8.807min 0.000 ug/L m

response 479930654

Manual Integration:

After

BLC

02/13/17

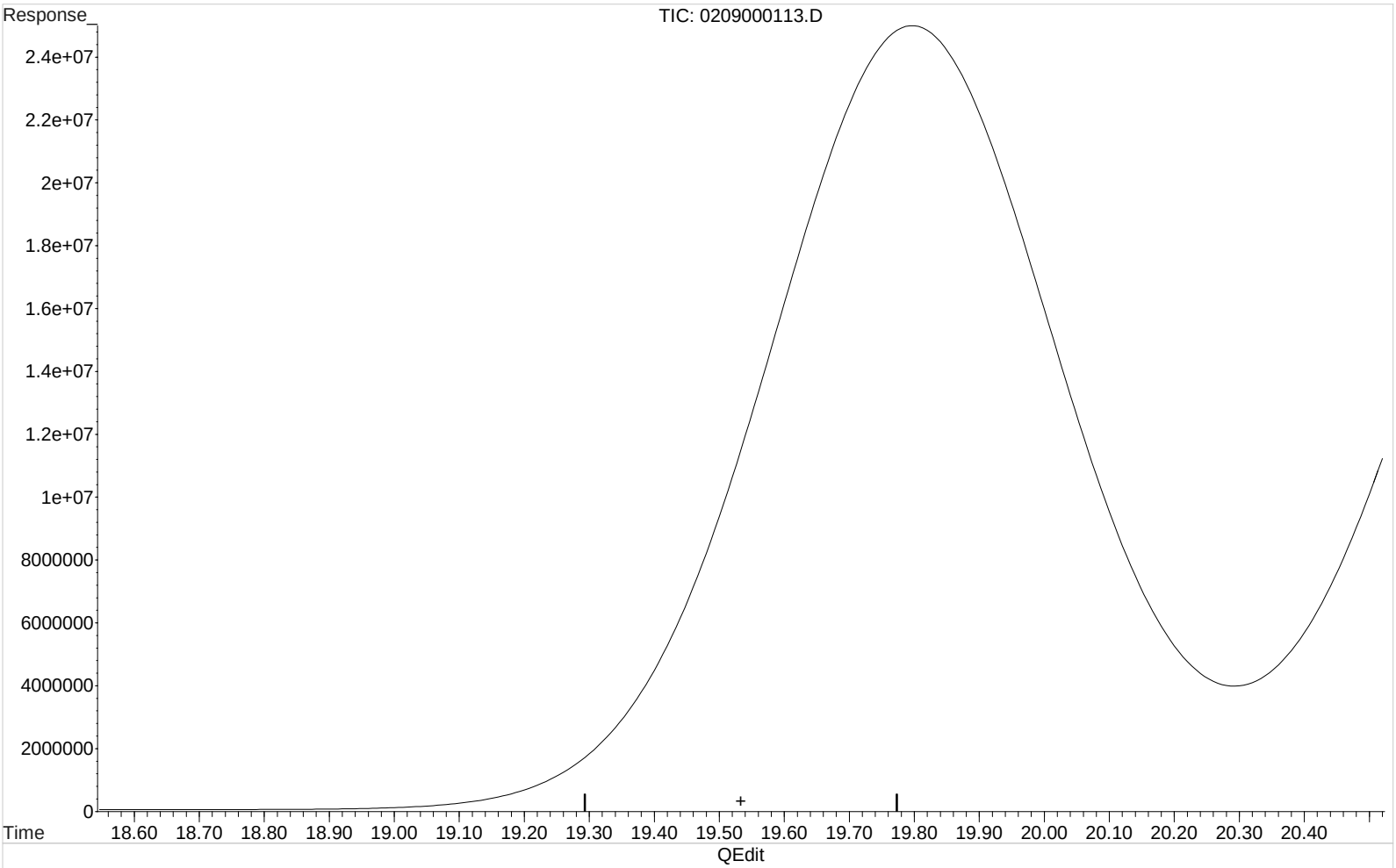
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(15) 1,3,5-TNB (T)

19.533min 0.000 ug/L

response 0

Manual Integration:

Before

02/13/17

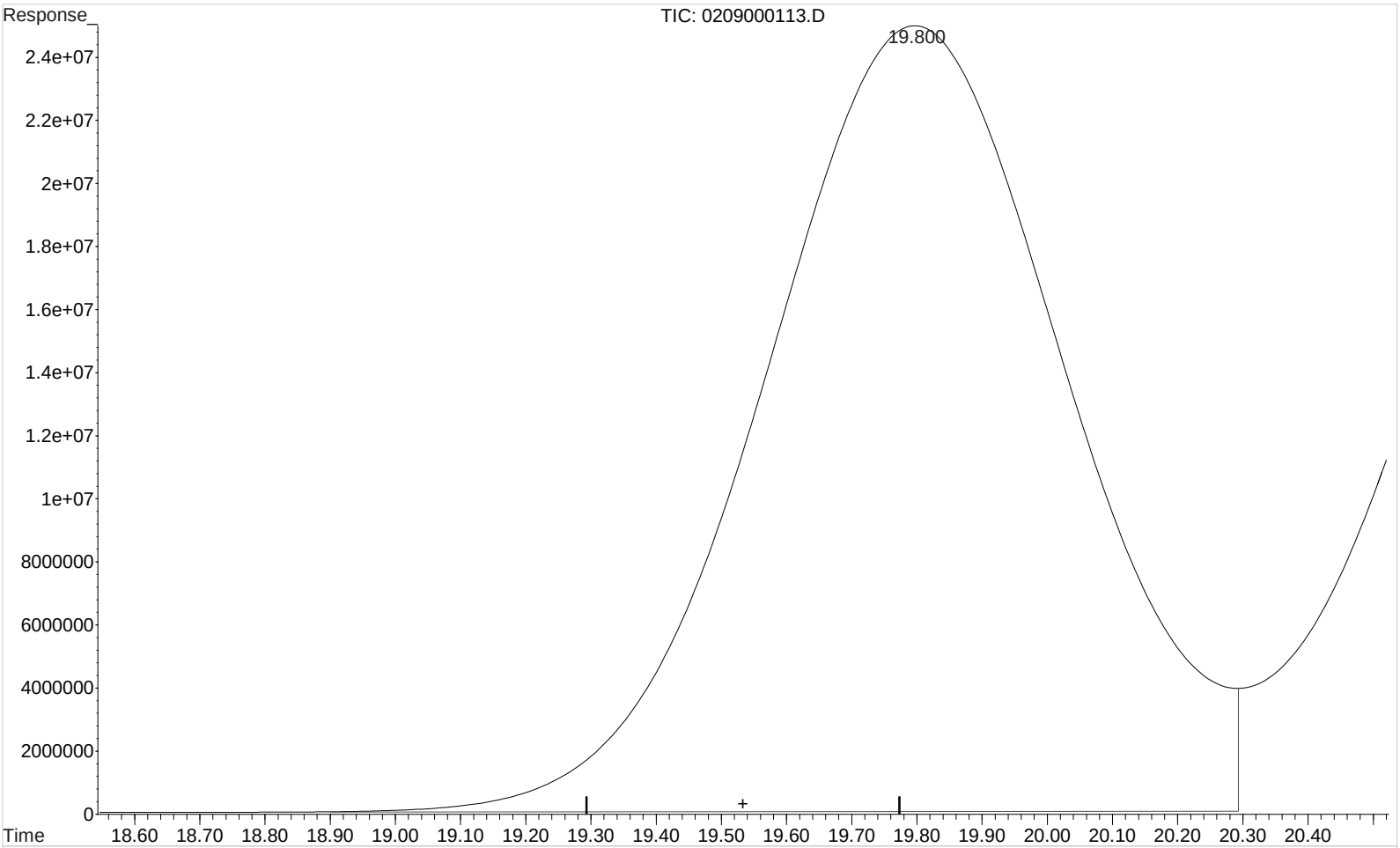
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(15) 1,3,5-TNB (T)

19.800min 0.000 ug/L m

response 805109064

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

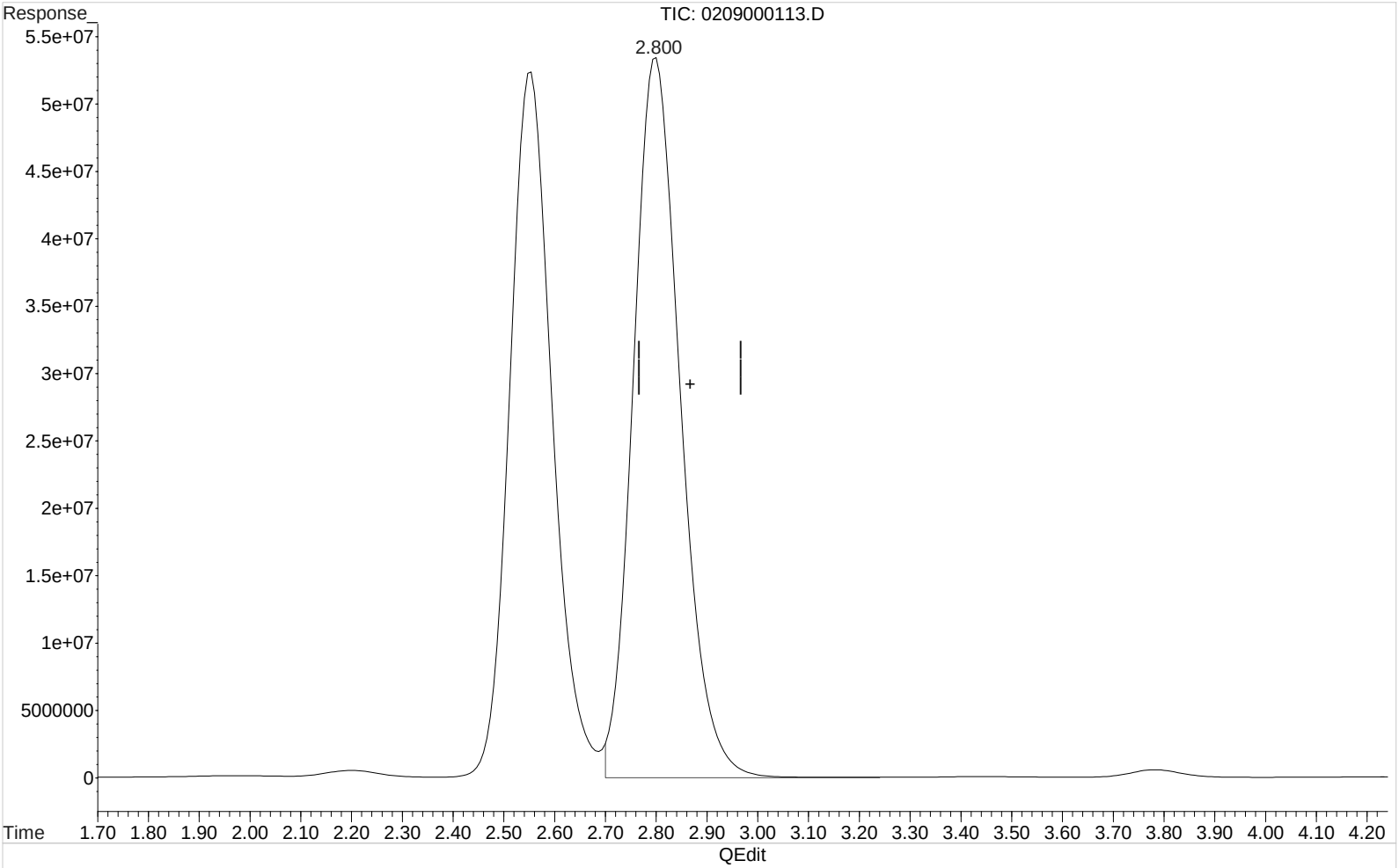
Quantitation Report (Qedit)

(b) (6)
1st [redacted] 02/13/17
2nd [redacted] 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:19 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(2) RDX (T)

2.800min 0.000 ug/L

response 343726550

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

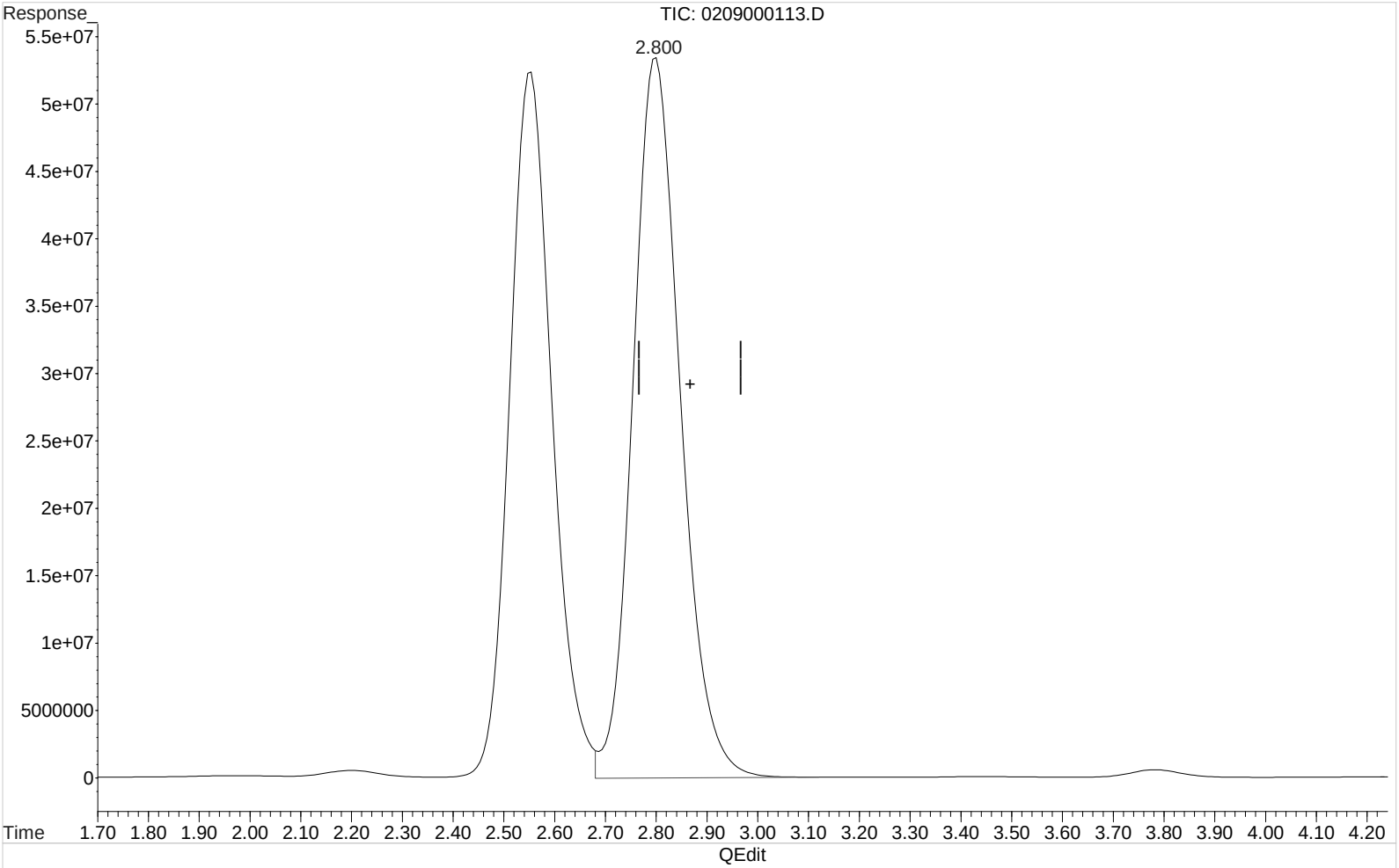
Quantitation Report (Qedit)

(b) (6)
1st /13/17
2nd /17/17

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:19 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.800min 0.000 ug/L m

response 346502613

Manual Integration:

After

BLC

02/13/17

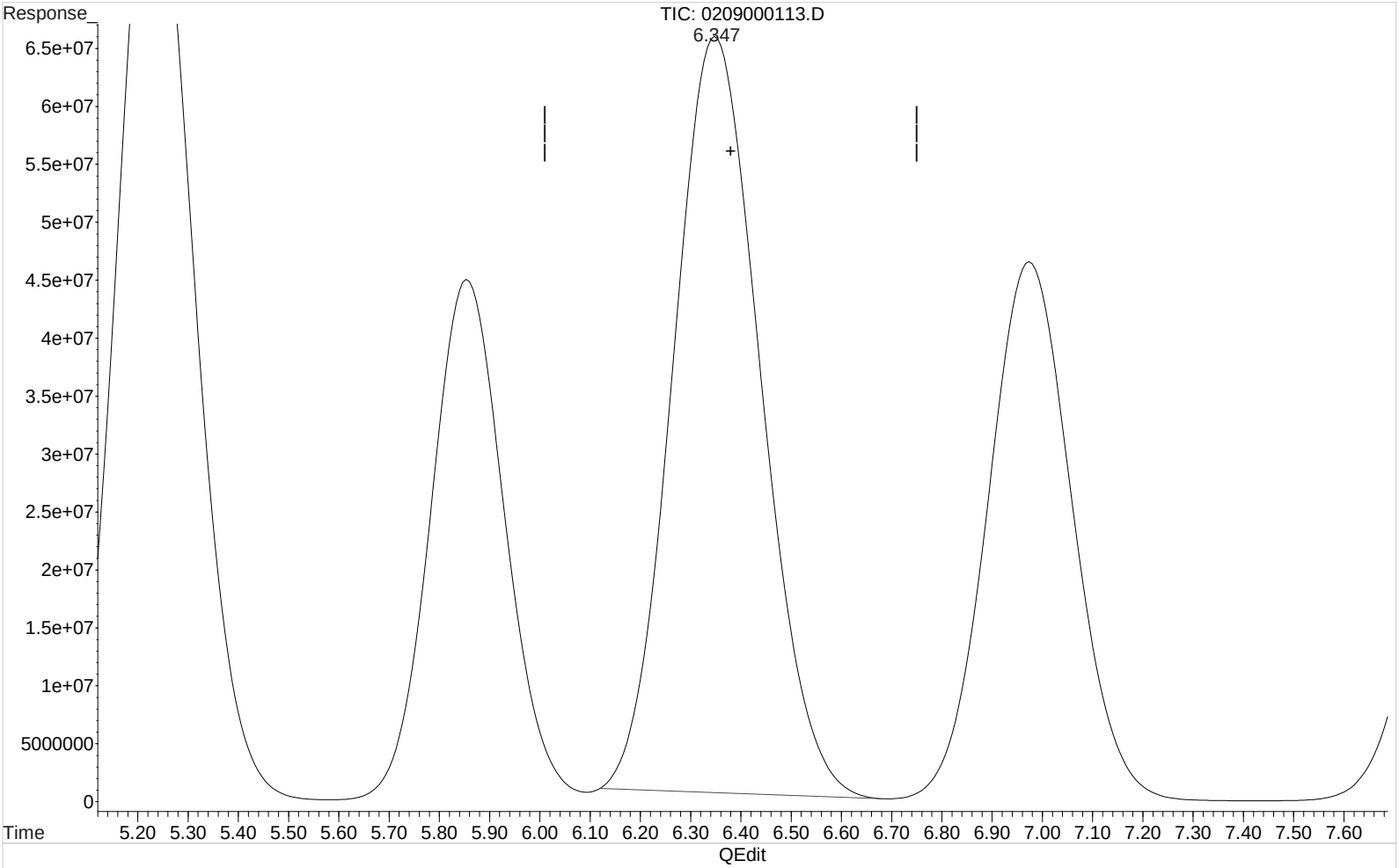
(+) = Expected Retention Time

(b)
(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.347min 0.000 ug/L

response 793832791

Manual Integration:

Before

02/13/17

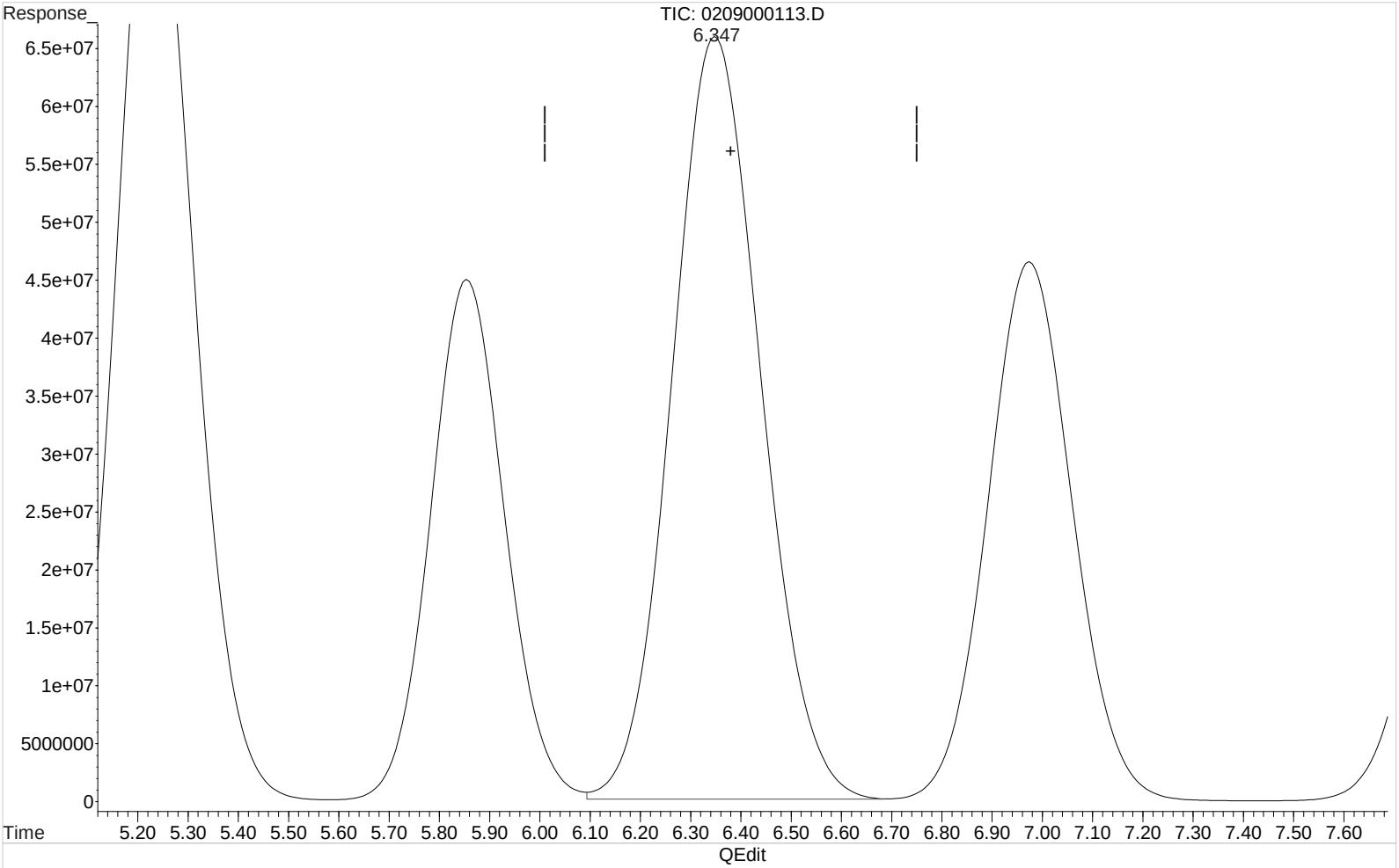
(+) = Expected Retention Time

(b)
1st (6) 02/13/17
2nd [redacted] 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.347min 0.000 ug/L m

response 811004098

Manual Integration:

After

BLC

02/13/17

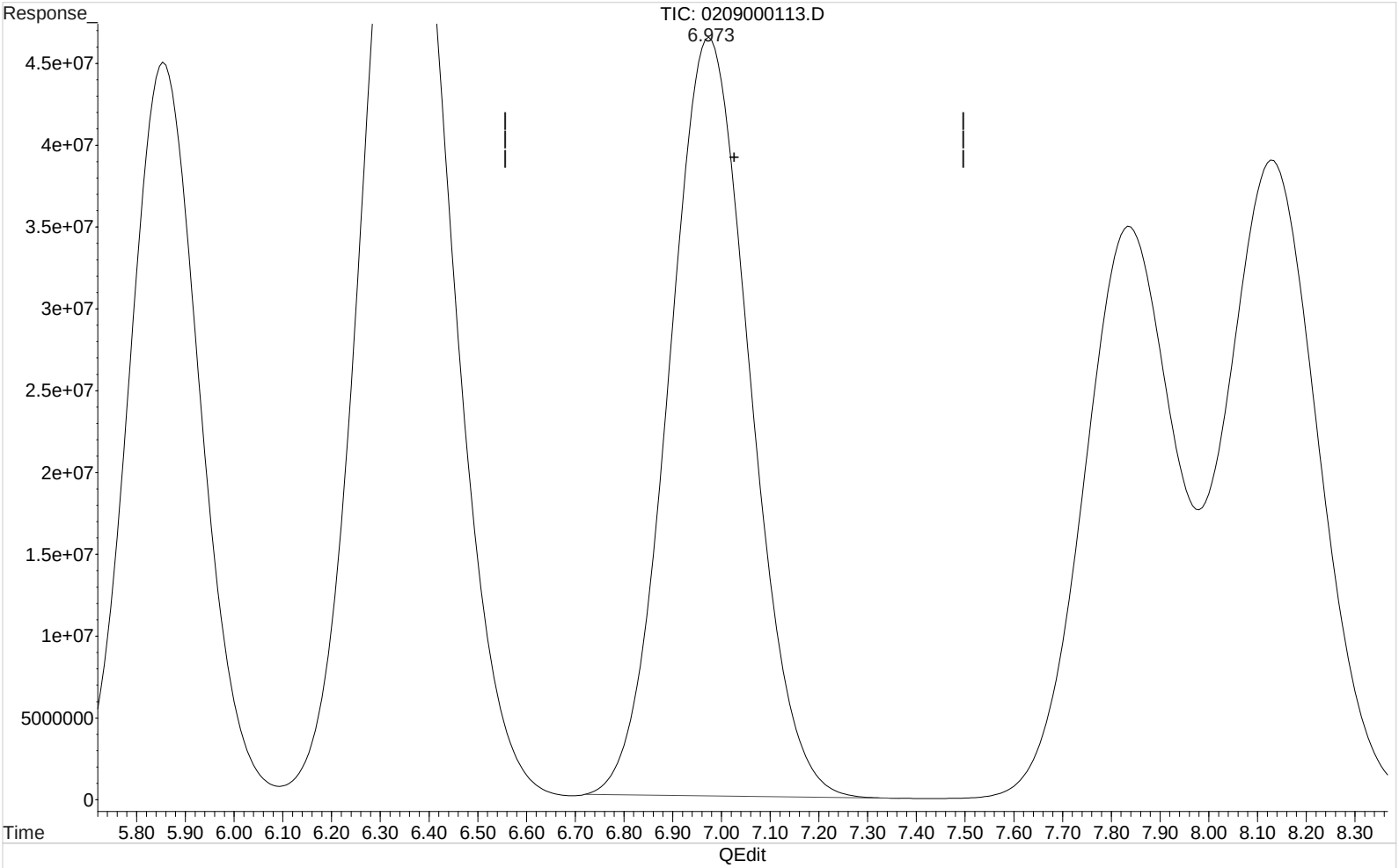
(+) = Expected Retention Time

(b)
(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(8) 3-NT (T)

6.973min 0.000 ug/L

response 539697946

Manual Integration:

Before

02/13/17

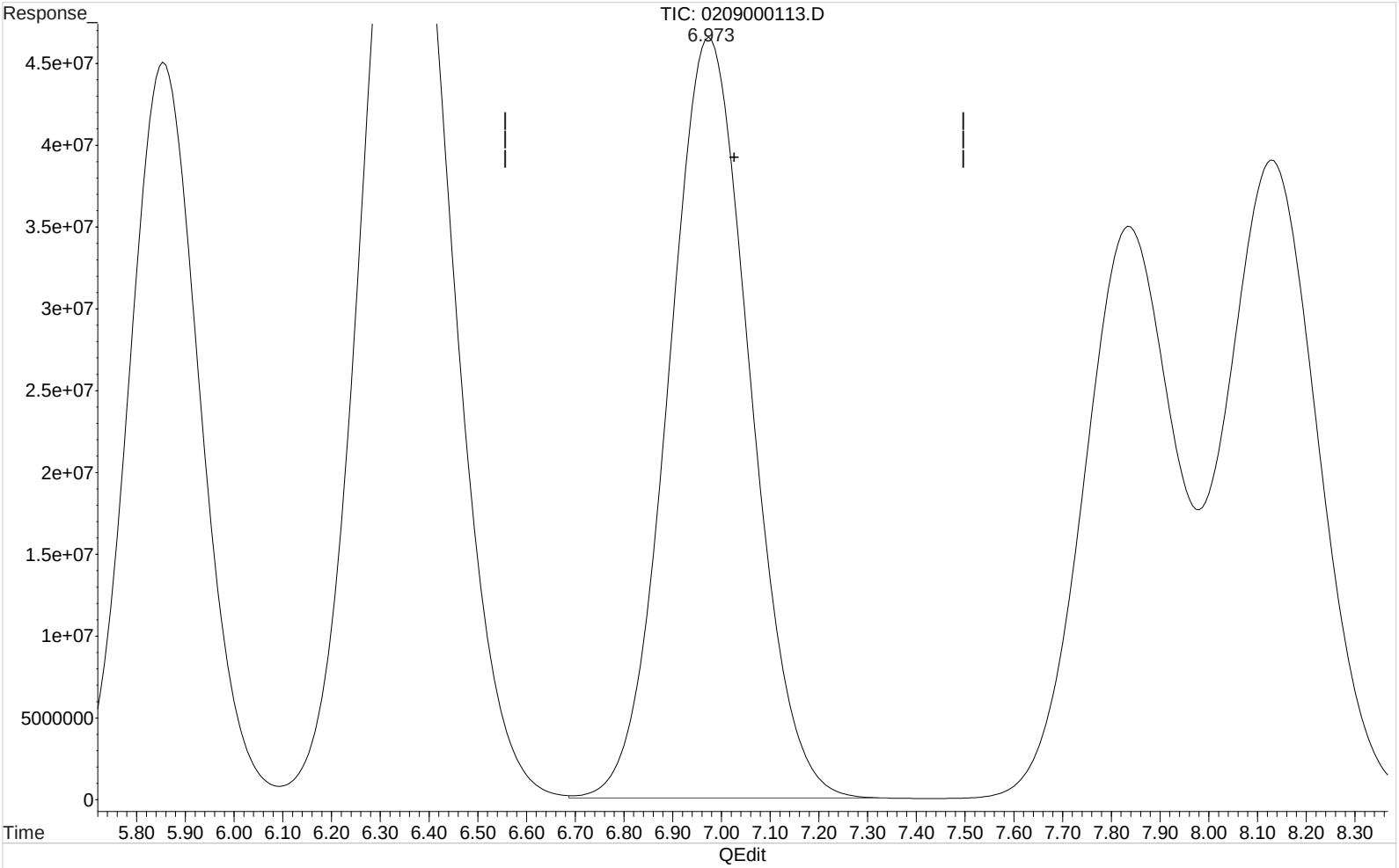
(+) = Expected Retention Time

(b)
(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(8) 3-NT (T)

6.973min 0.000 ug/L m

response 543775210

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

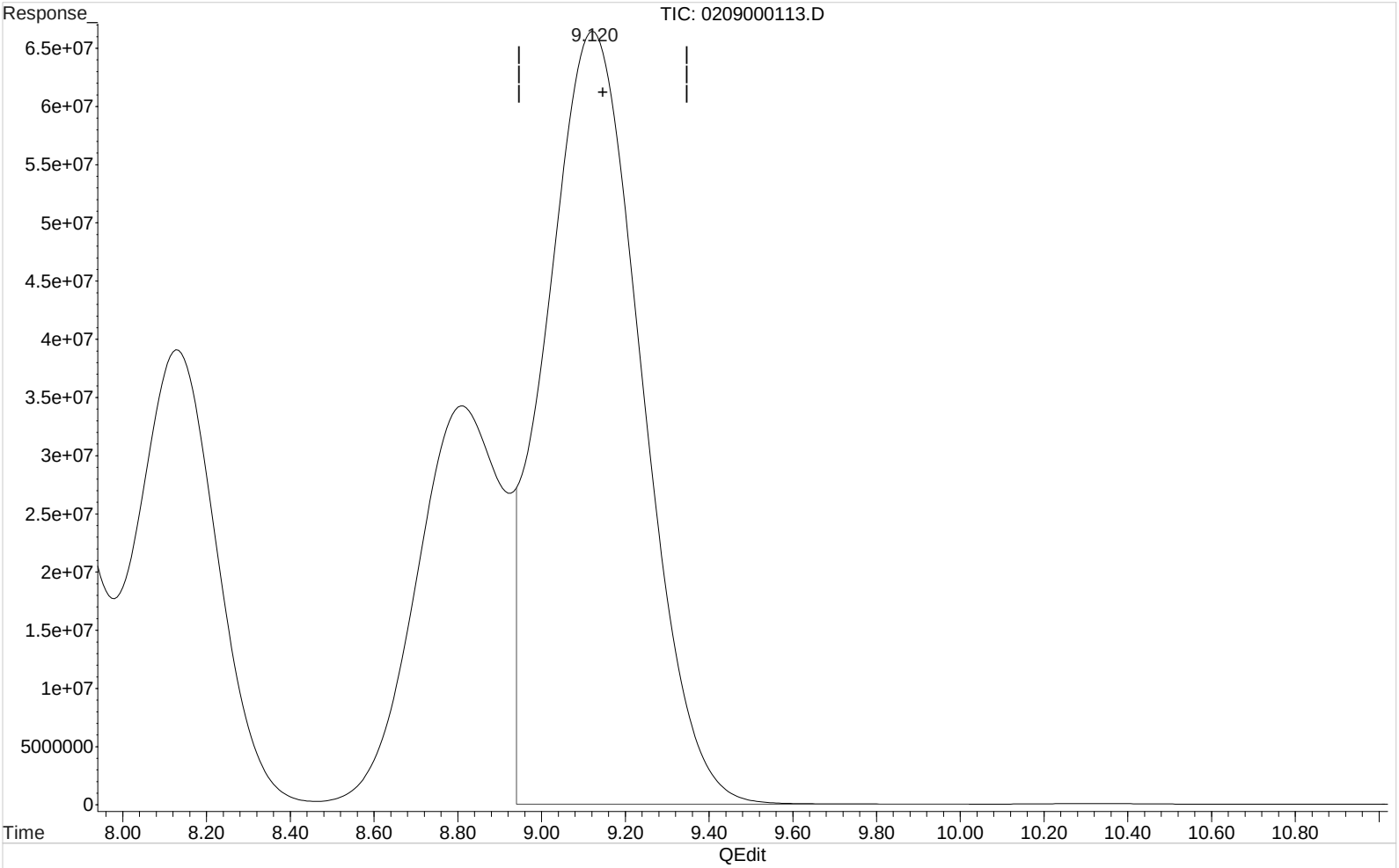
Quantitation Report (Qedit)

(b) (6)
1st [redacted] 02/13/17
2nd [redacted] 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(9) 1,3-DNB (T)

9.120min 0.000 ug/L

response 1060177232

Manual Integration:

Before

02/13/17

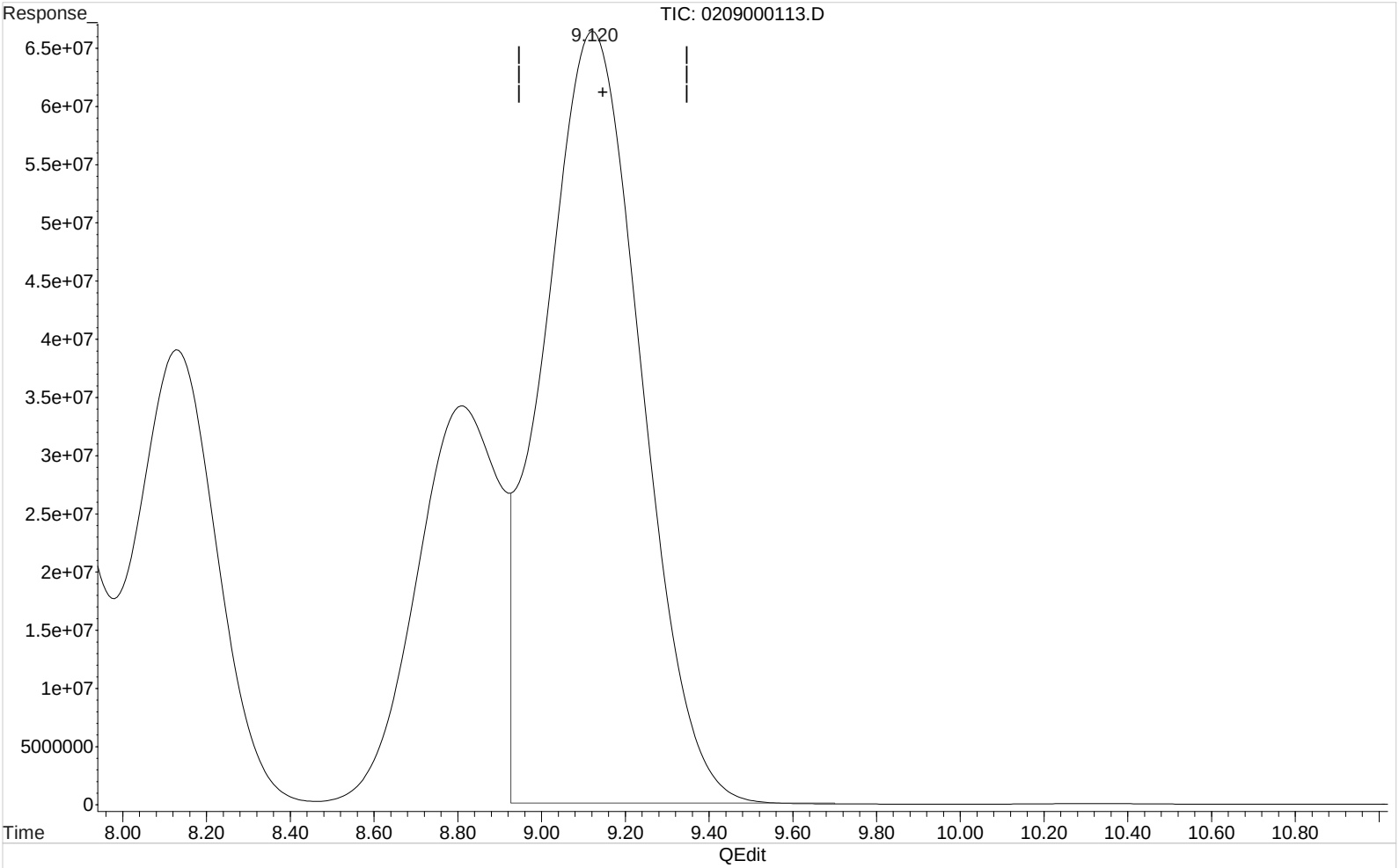
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(9) 1,3-DNB (T)

9.120min 0.000 ug/L m

response 1077373089

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000114.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:09:06 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:23:50 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
11) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
	Target Compounds					
1) T	HMX	0.000	0	N.D.	ug/L	
2) T	RDX	0.000	0	N.D.	ug/L	
3) T	Nitrobenzene	0.000	0	N.D.	ug/L	
4) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L	
5) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L	d
6) T	2-NT	0.000	0	N.D.	ug/L	d
7) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L	d
8) T	3-NT	0.000	0	N.D.	ug/L	d
9) T	1,3-DNB	0.000	0	N.D.	ug/L	
10) T	4-NT	0.000	0	N.D.	ug/L	d
12) T	2,6-DNT	0.000	0	N.D.	ug/L	d
13) T	2,4-DNT	0.000	0	N.D.	ug/L	d
14) T	Tetryl	0.000	0	N.D.	ug/L	d
15) T	1,3,5-TNB	0.000	0	N.D.	ug/L	
16) T	2,4,6-TNT	0.000	0	N.D.	ug/L	

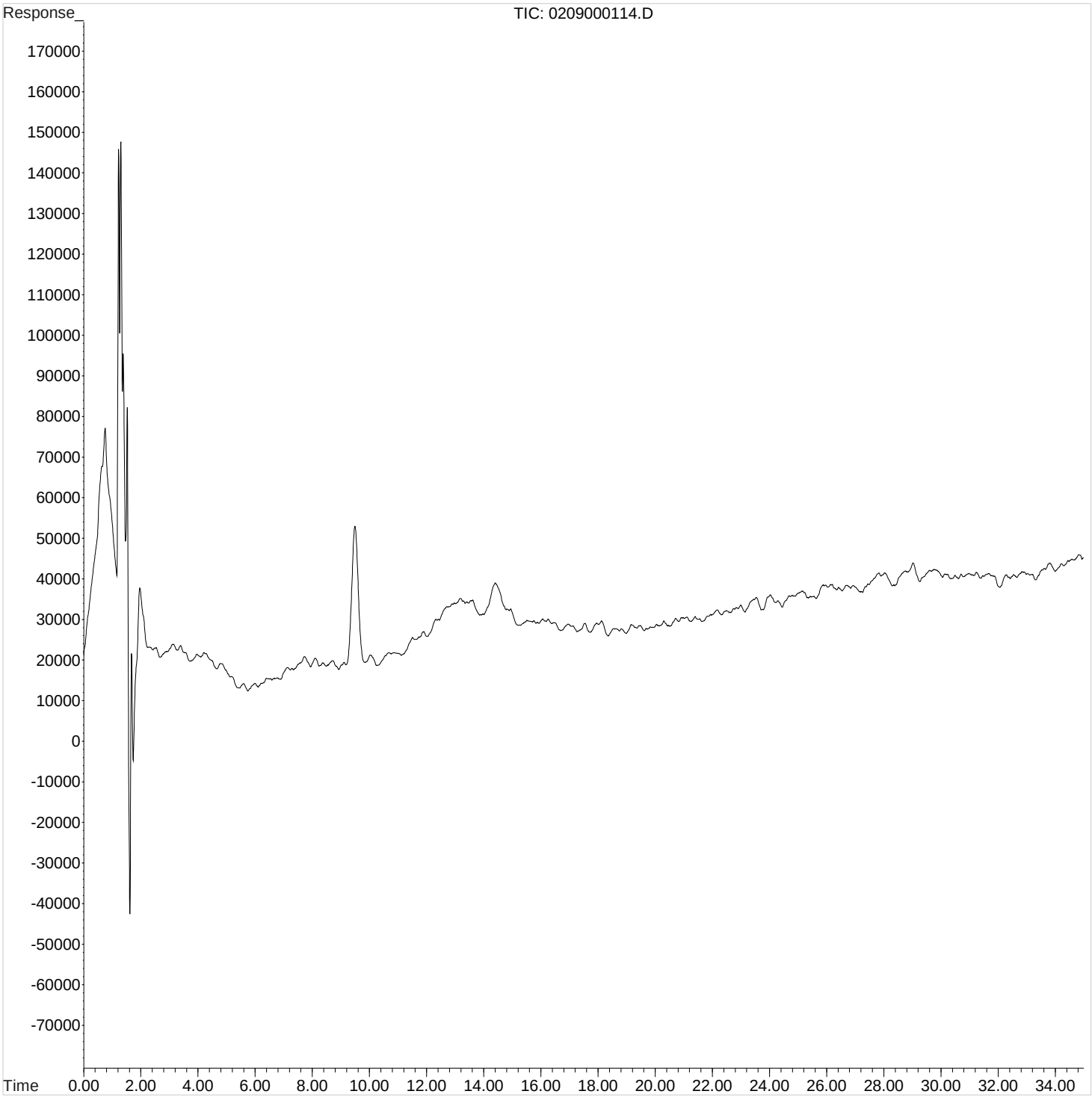
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000114.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:09:06 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:23:50 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:22:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
11)	S	1-Chloro-3-Nitrobenzene	8.127	24836791	943.788	ug/L	
		Target Compounds					
1)	T	HMX	2.553	15189672	974.540	ug/L	
2)	T	RDX	2.800	16803386	903.368	ug/L	m
3)	T	Nitrobenzene	4.480	34528657	928.103	ug/L	m
4)	T	3,5-Dinitroaniline	5.240	43014873	925.365	ug/L	
5)	T	4-Amino-2,6-DNT	4.867	29345653	921.272	ug/L	
6)	T	2-NT	5.853	21859915	928.032	ug/L	m
7)	T	2-Amino-4,6-DNT	6.353	38582149	914.519	ug/L	m
8)	T	3-NT	6.973	25230895	902.935	ug/L	
9)	T	1,3-DNB	9.120	51447002	919.544	ug/L	m
10)	T	4-NT	7.833	21970507	942.506	ug/L	
12)	T	2,6-DNT	8.800	24072617	983.755	ug/L	
13)	T	2,4-DNT	14.787	47663620	906.089	ug/L	
14)	T	Tetryl	12.960	26728022	910.339	ug/L	
15)	T	1,3,5-TNB	19.780	38519494	914.207	ug/L	
16)	T	2,4,6-TNT	20.760	35648669	918.724	ug/L	

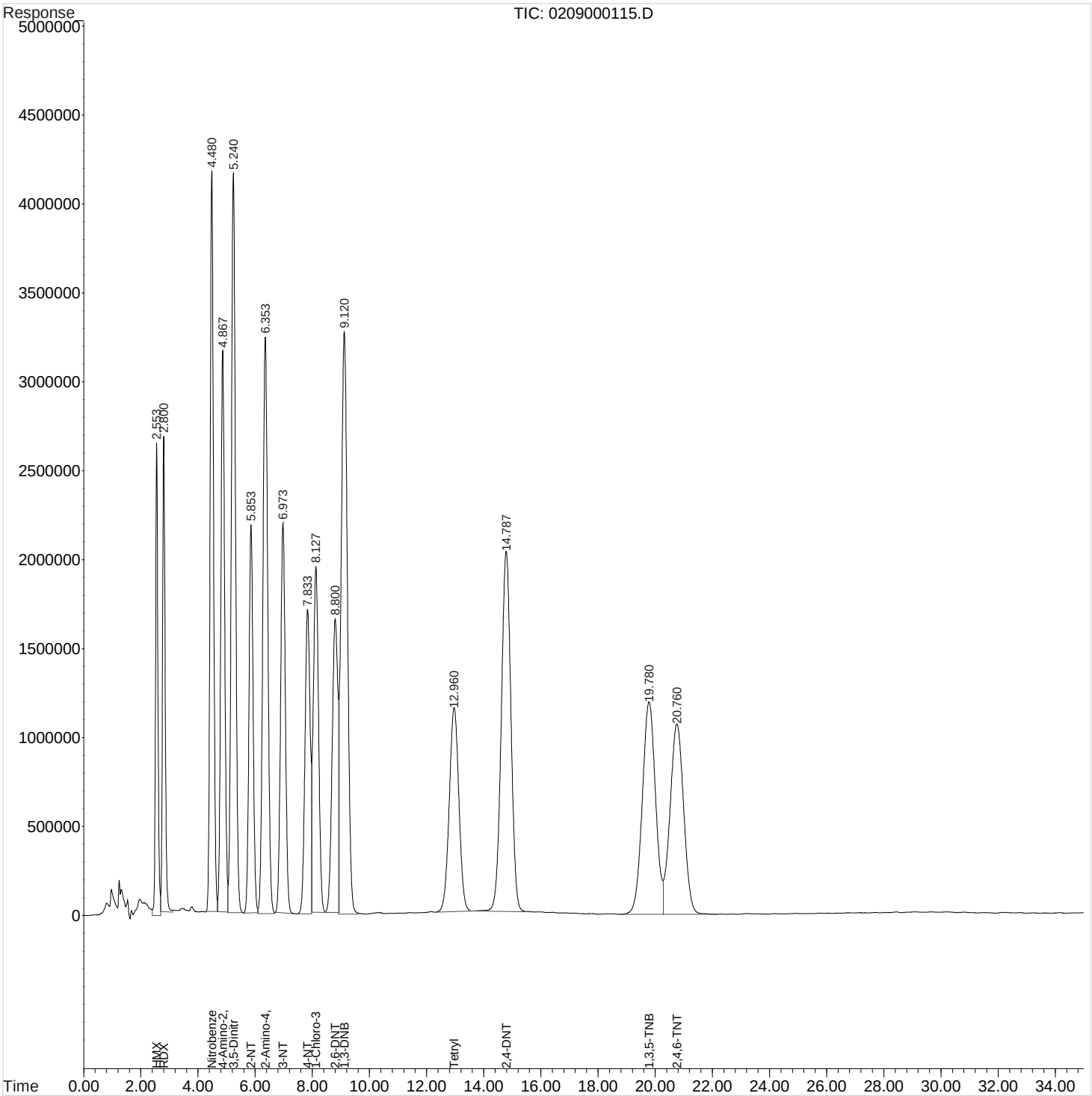
(f)=RT Delta > 1/2 Window (m)=manual int.

(b)(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:22:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

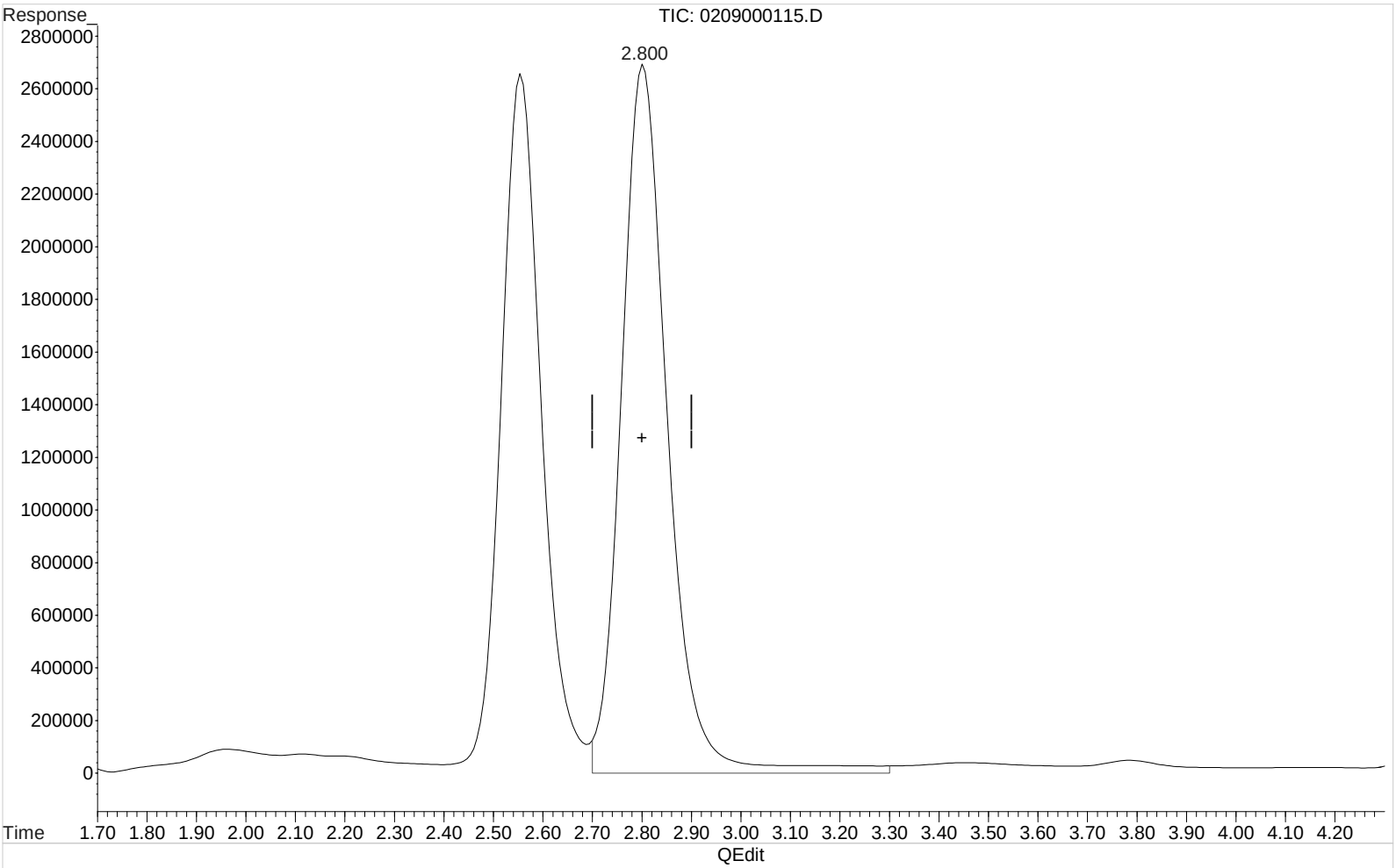


(b)
1st (6) 02/13/17
2nd [redacted] 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(2) RDX (T)

2.800min 943.070 ug/L

response 17541874

Manual Integration:

Before

02/13/17

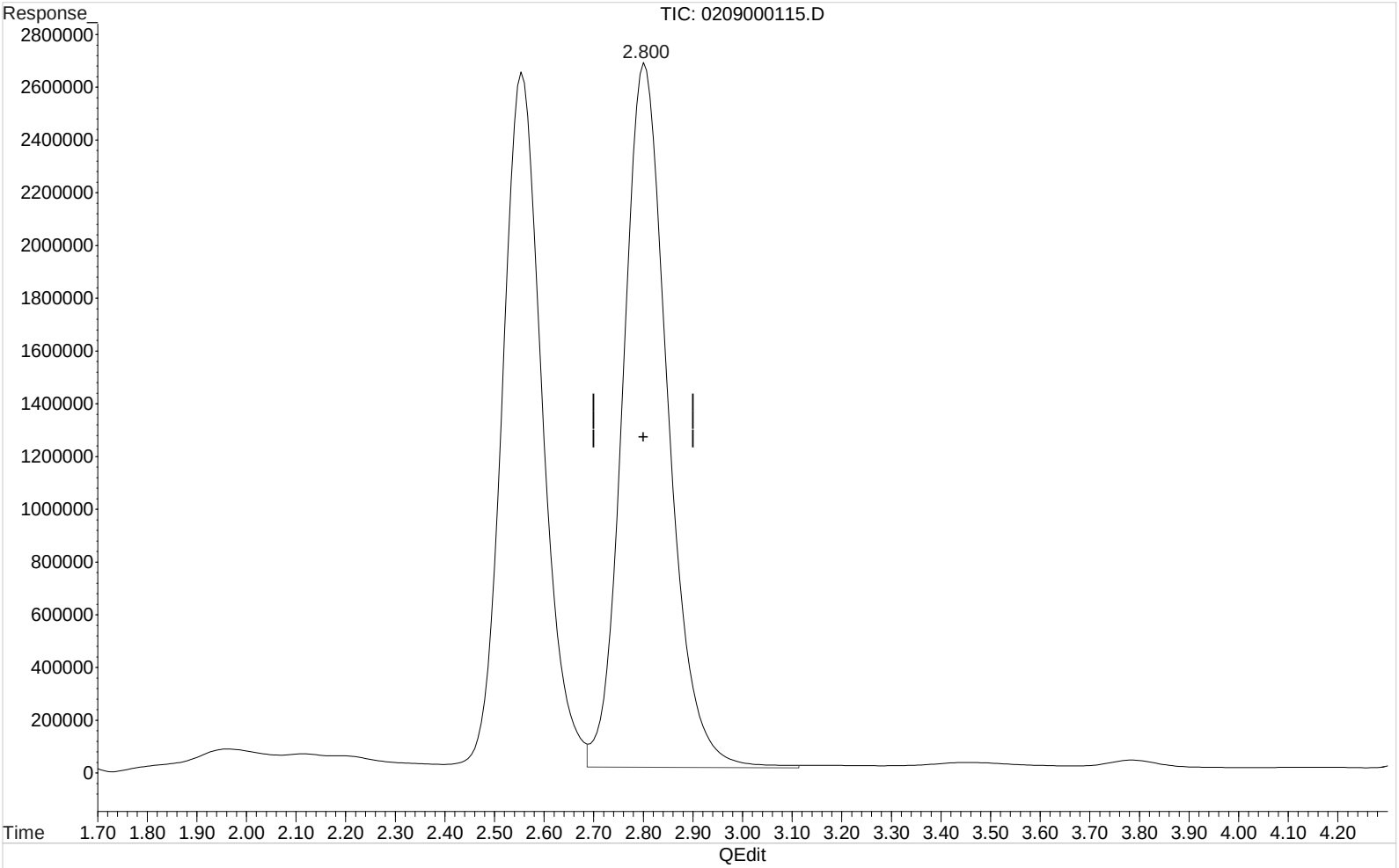
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(2) RDX (T)

2.800min 903.368 ug/L m

response 16803386

Manual Integration:

After

BLC

02/13/17

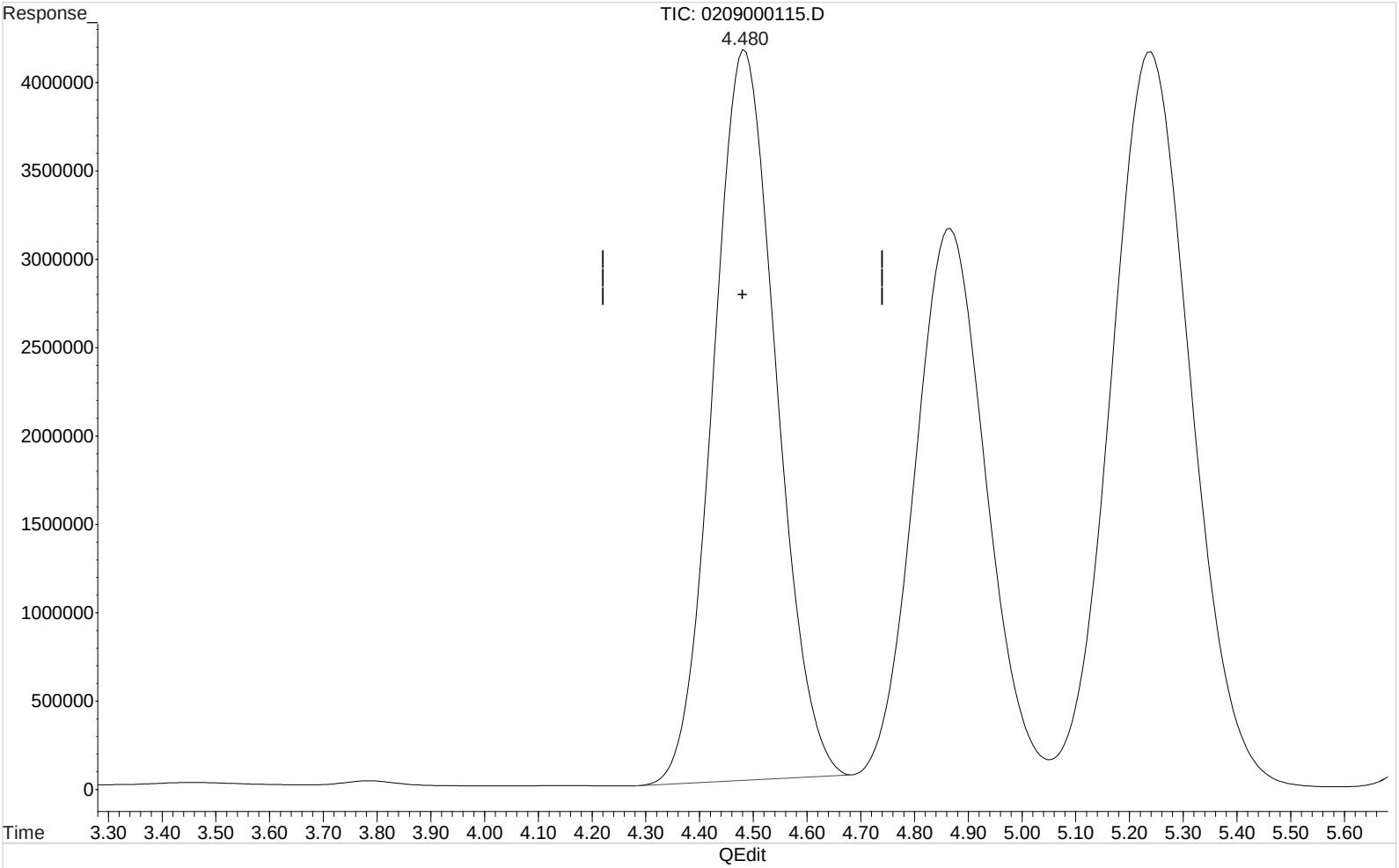
(+) = Expected Retention Time

1st (b)(6) 02/13/17
2nd [redacted] 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(3) Nitrobenzene (T)

4.480min 908.645 ug/L

response 33804752

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

(b) (6)

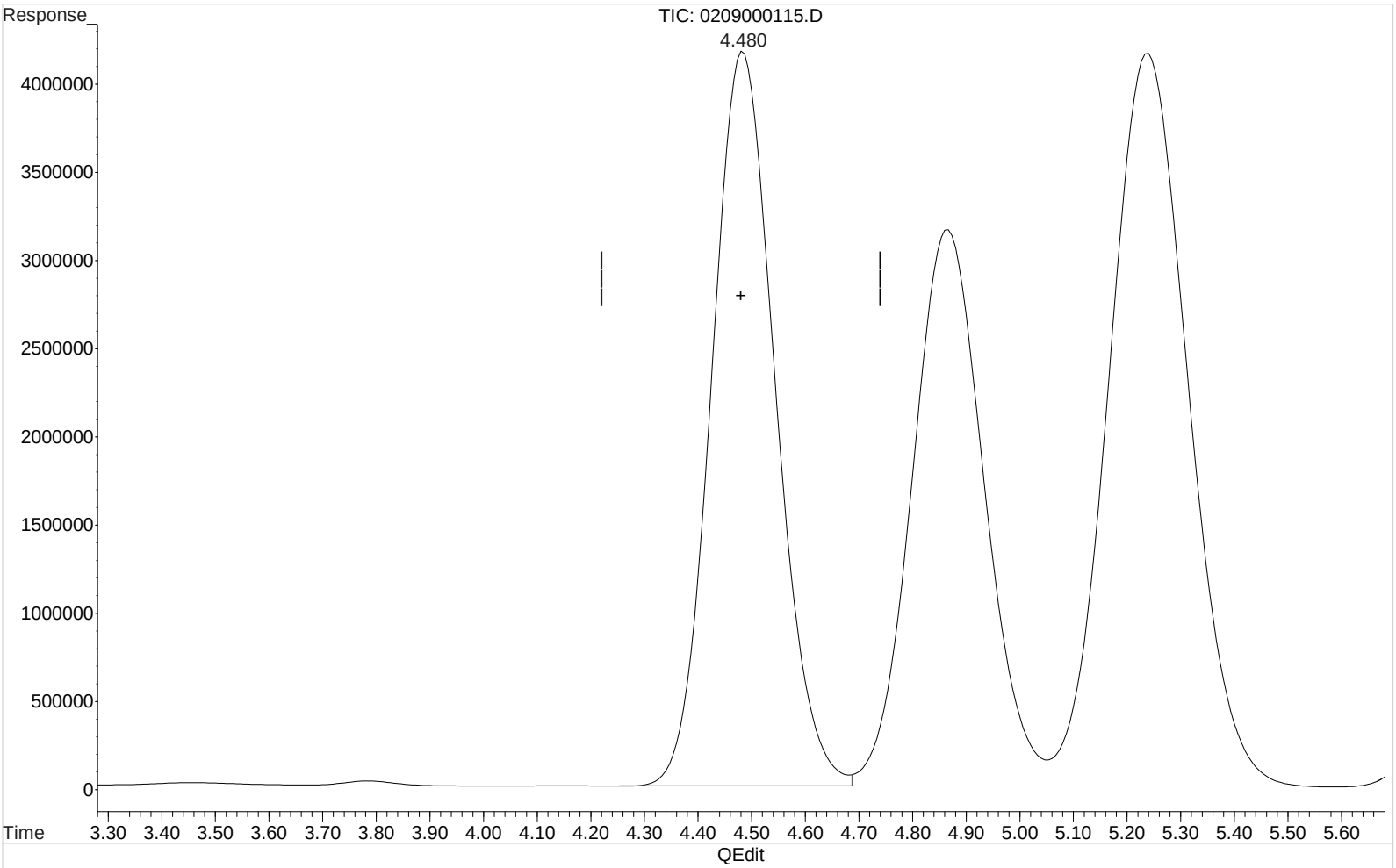
1st 02/13/17

2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.480min 928.103 ug/L m

response 34528657

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

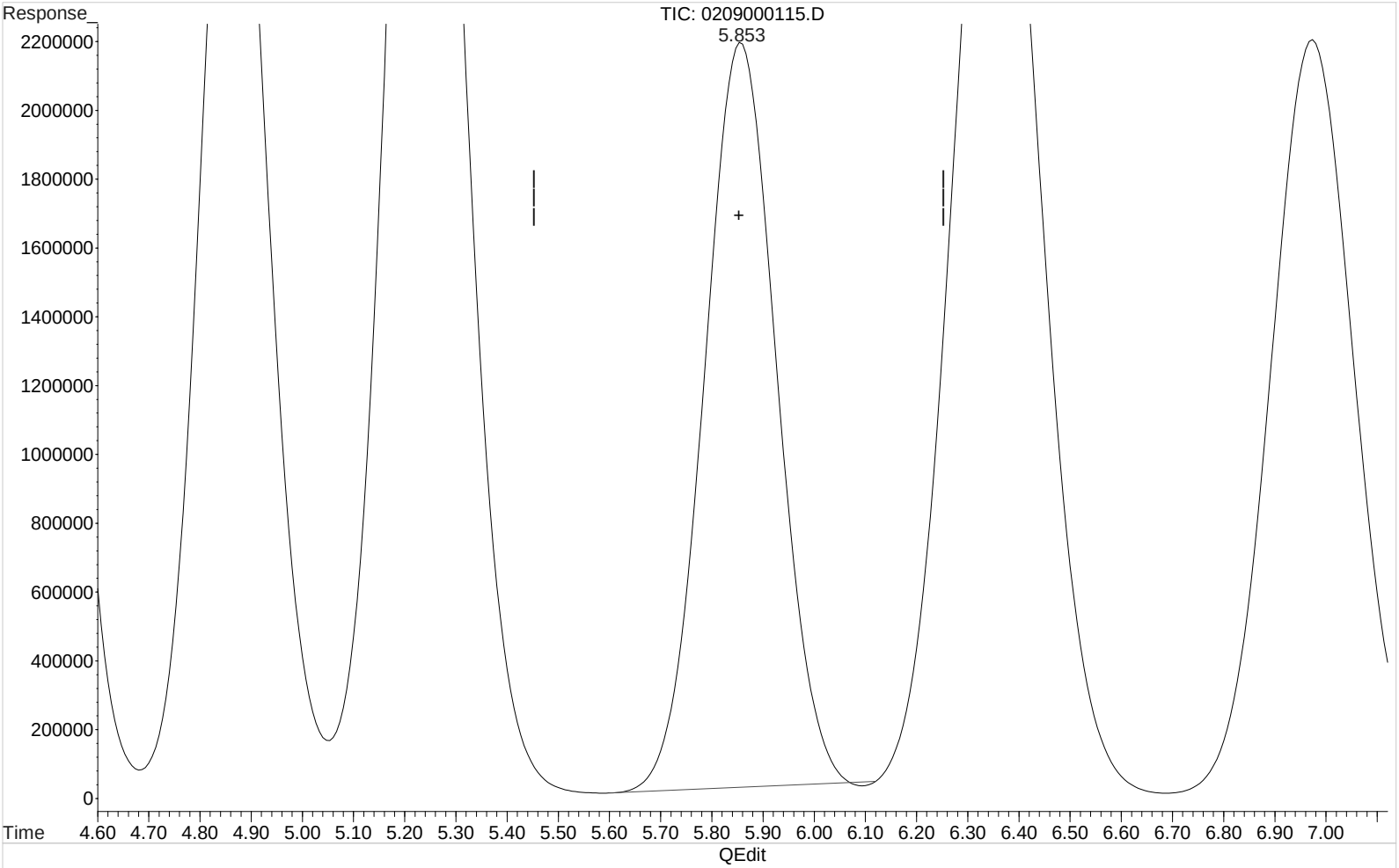
Quantitation Report (Qedit)

1st (b) (6) 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.853min 906.205 ug/L

response 21345796

Manual Integration:

Before

02/13/17

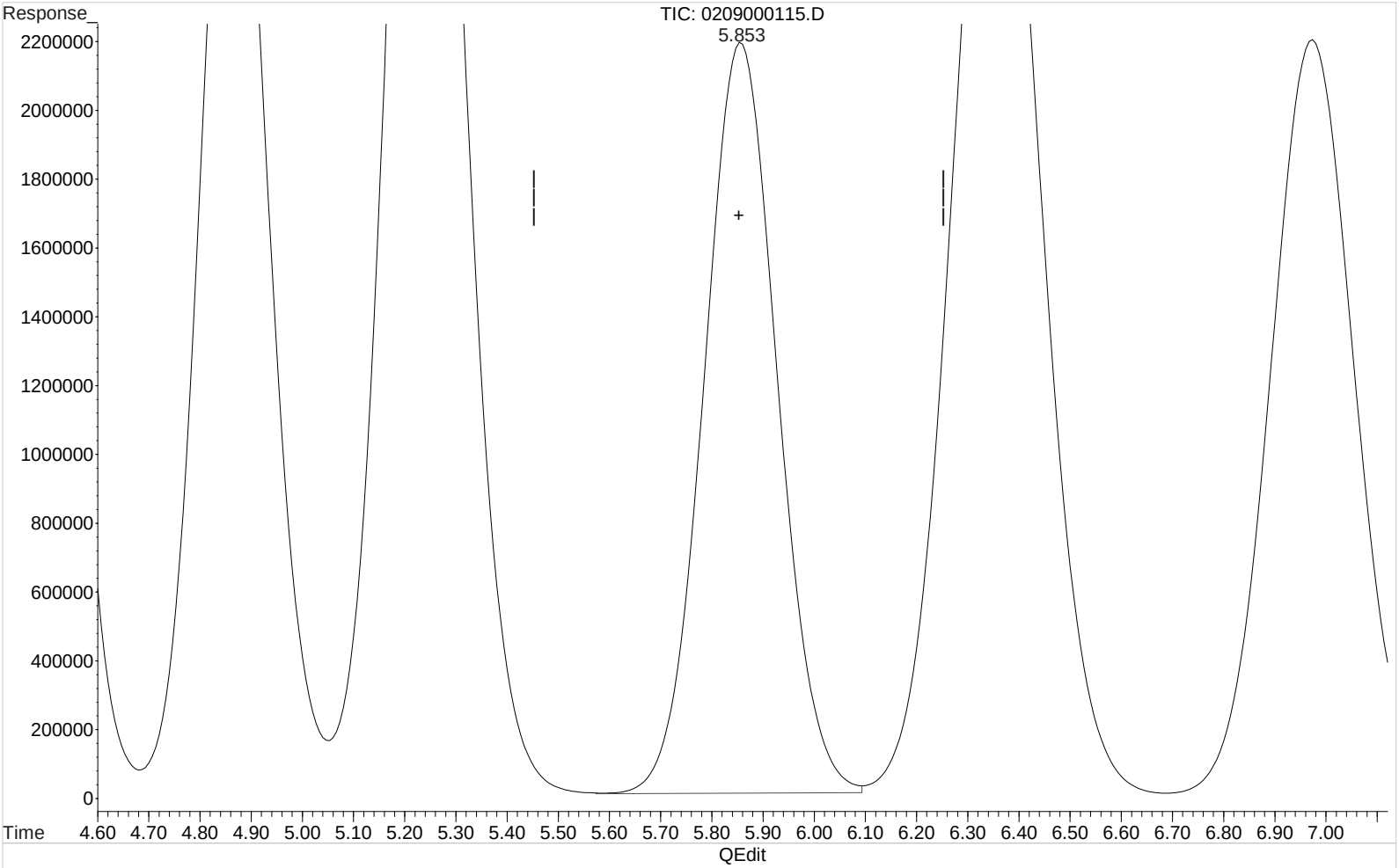
(+) = Expected Retention Time

1st (b) (6) 02/13/17
2nd [redacted] 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.853min 928.032 ug/L m

response 21859915

Manual Integration:

After

BLC

02/13/17

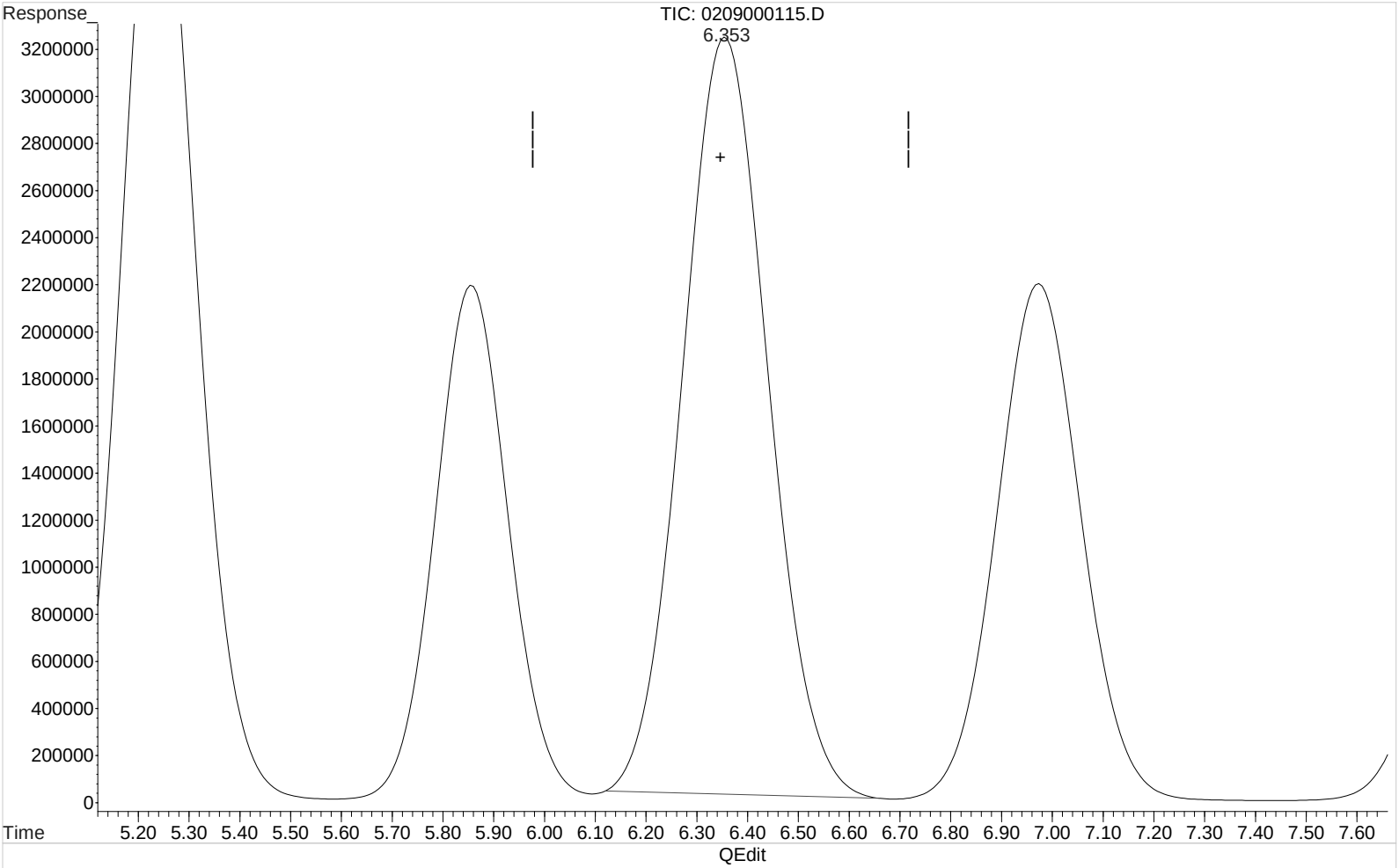
(+) = Expected Retention Time

(b)
(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.353min 895.482 ug/L

response 37779010

Manual Integration:

Before

02/13/17

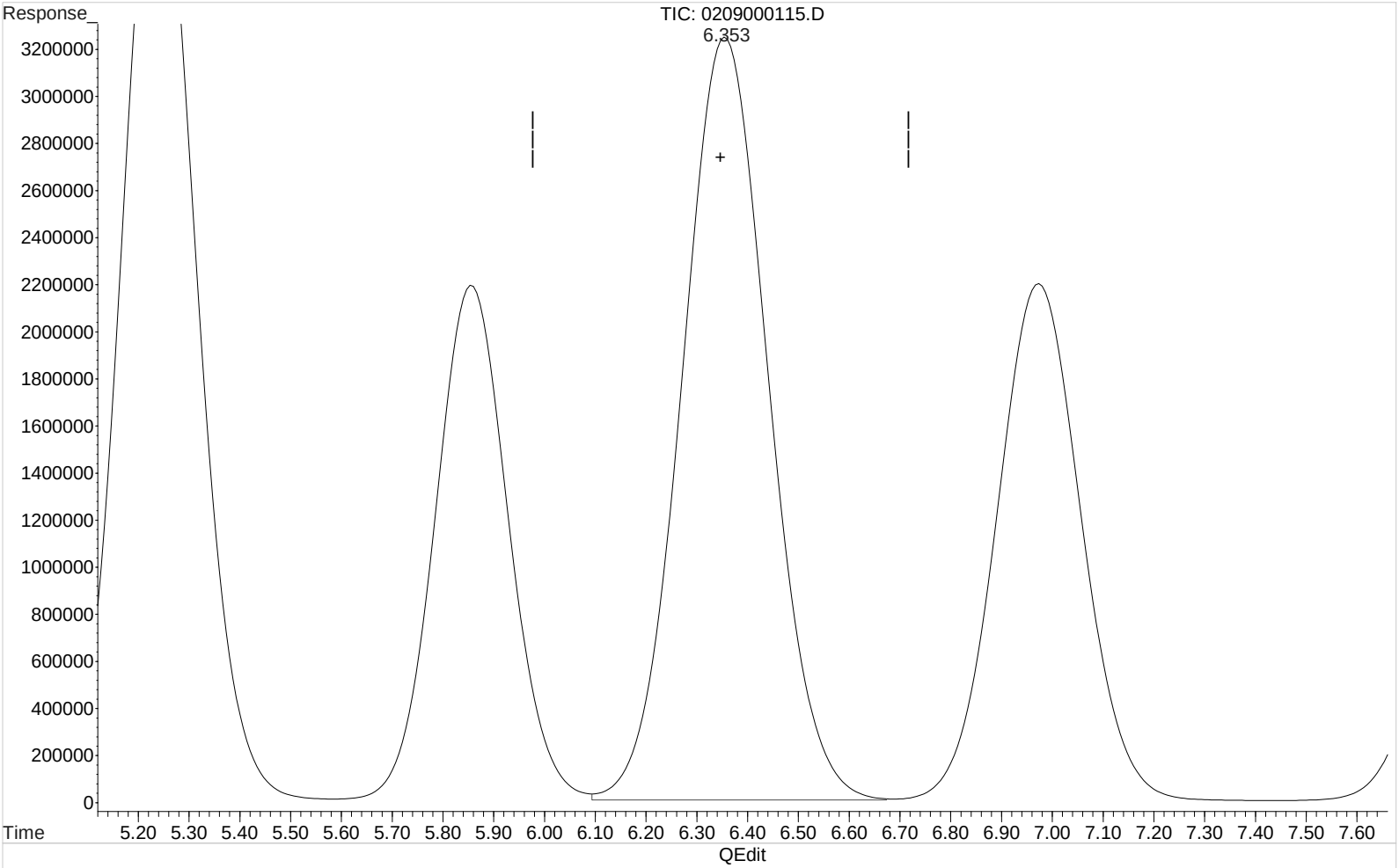
(+) = Expected Retention Time

1st (b) (6) 02/13/17
2nd [redacted] 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.353min 914.519 ug/L m

response 38582149

Manual Integration:

After

BLC

02/13/17

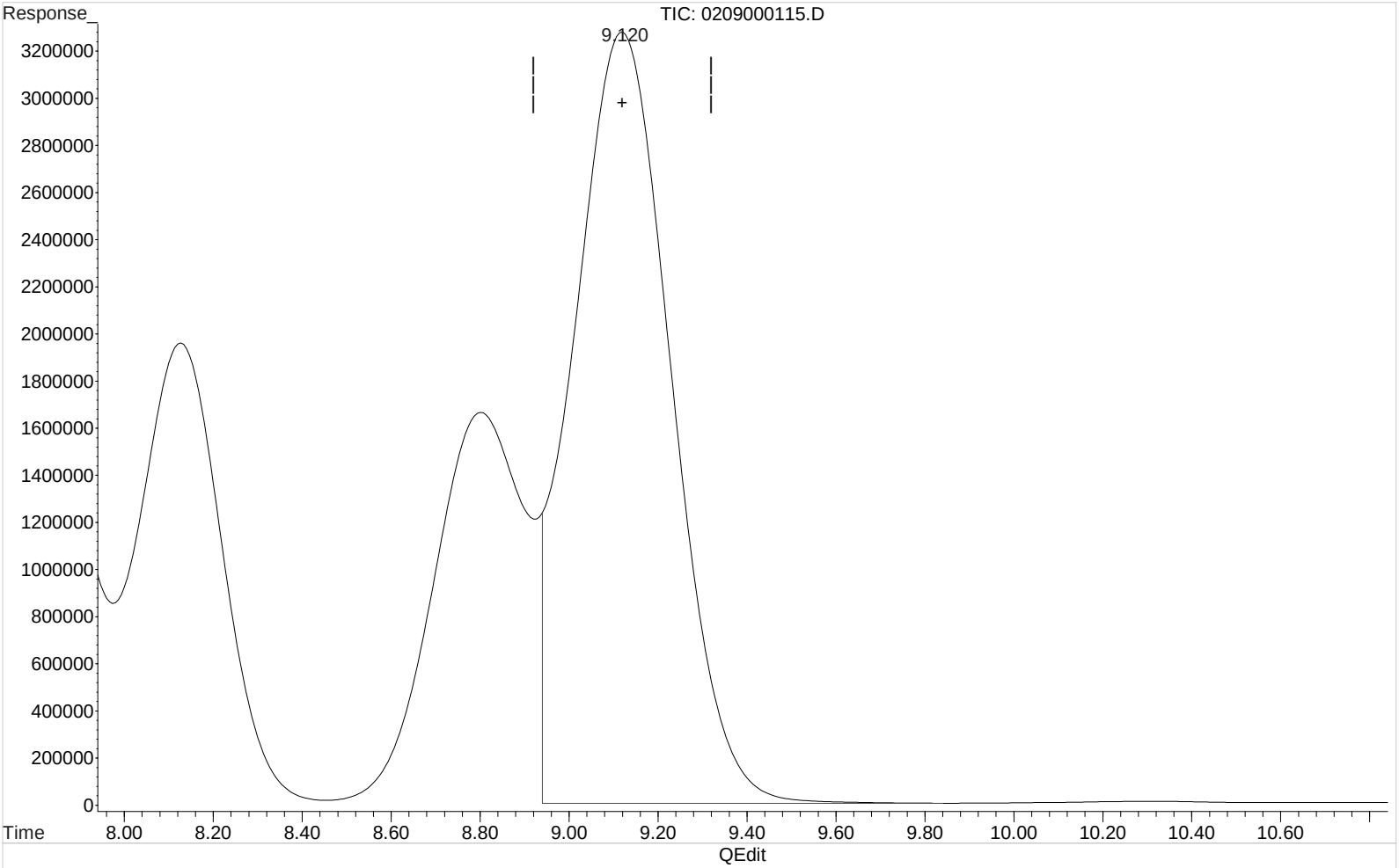
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(9) 1,3-DNB (T)

9.120min 894.233 ug/L

response 50030932

Manual Integration:

Before

02/13/17

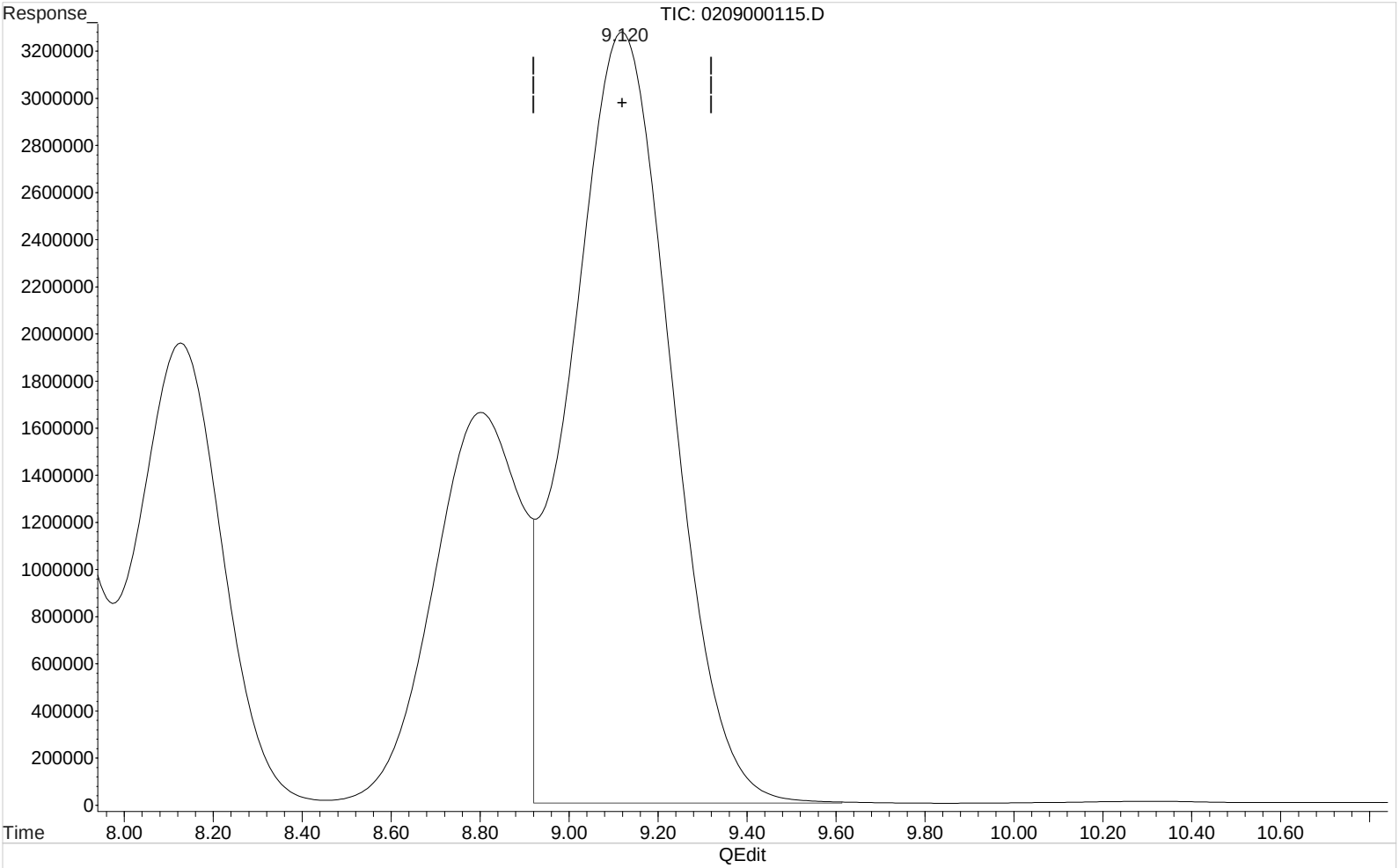
(+) = Expected Retention Time

(b)
(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(9) 1,3-DNB (T)

9.120min 919.544 ug/L m

response 51447002

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Date: 12/7/2016 **ALS Kelso, WA** **ICAL Date:** 12/7/2016

By: AE **Injection Log** **ICAL ID:** (254)-15062 (210)-15063

Stealth ID: n/a **LC10 - Agilent 1260** **LIMS ID:** n/a

2nd Review: (b) (6)

Column: Phen. Synergi Hydro-RP 80A 250x4.6 mm SN 759076-19

Mobile Phases A: MeOH Lot#: 56175 **B:** ACN Lot#: 56165 **C:** H_2O Lot#: 56006 **D:**

	Sample Name	File Name	Method	Dilution	R	Comments
1		12070000101	8330BX+DIAMINOS.M	NA		
2		12070000102	8330BX+DIAMINOS.M	NA		
3		1207000202	8330BX+DIAMINOS.M	NA		
4		1207000203	8330BX+DIAMINOS.M	NA		
5		1207000204	8330BX+DIAMINOS.M	NA		
6		1207000205	8330BX+DIAMINOS.M	NA		
7		1207000206	8330BX+DIAMINOS.M	NA		
8		1207000207	8330BX+DIAMINOS.M	NA		
9		1207000303	8330BX+DIAMINOS.M	NA		
10		1207000404	8330BX+DIAMINOS.M	NA		
11		1207000405	8330BX+DIAMINOS.M	NA		
12		1207000505	8330BX+DIAMINOS.M	NA		
13		1207000601	8330BX+DIAMINOS.M	NA		
14		1207000602	8330BX+DIAMINOS.M	NA		
15		1207000603	8330BX+DIAMINOS.M	NA		
16		1207000701	8330BX+DIAMINOS.M	NA		
17		1207000702	8330BX+DIAMINOS.M	NA		
18	IB	1207000703	8330BX+DIAMINOS.M	NA	X	
19	16-OLC-01-89J 20 PPB	1207000704	8330BX+DIAMINOS.M	NA	X	
20	16-OLC-01-89I 50 PPB	1207000705	8330BX+DIAMINOS.M	NA	X	
21	16-OLC-01-89H 100 PPB	1207000706	8330BX+DIAMINOS.M	NA	X	
22	16-OLC-01-89G 200 PPB	1207000707	8330BX+DIAMINOS.M	NA	X	
23	16-OLC-01-89F 500 PPB	1207000708	8330BX+DIAMINOS.M	NA	X	
24	16-OLC-01-89E 1000 PPB	1207000709	8330BX+DIAMINOS.M	NA	X	
25	16-OLC-01-89D 2000 PPB	1207000710	8330BX+DIAMINOS.M	NA	X	
26	16-OLC-01-89C 5000 PPB	1207000711	8330BX+DIAMINOS.M	NA	X	
27	16-OLC-01-89B 10000 PPB	1207000712	8330BX+DIAMINOS.M	NA	X	
28	16-OLC-01-89A 20000 PPB	1207000713	8330BX+DIAMINOS.M	NA	X	
29	IB	1207000714	8330BX+DIAMINOS.M	NA	X	
30	16-OLC-01-89K 10000 PPB ICV	1207000715	8330BX+DIAMINOS.M	NA	X	

(Cal not valid for Diaminos)

R:\OLC\Injection Logs\LC10 2016\INJLOG_LC10_xl_120716_ICAL

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000703.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 19:36:44 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:14:56 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:09:42 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
Target Compounds						
1) T	Nitroglycerin	0.000	0	N.D.	ug/L	d
2) T	PETN	27.763	156171	8.404	ug/L	

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

(b)(6)

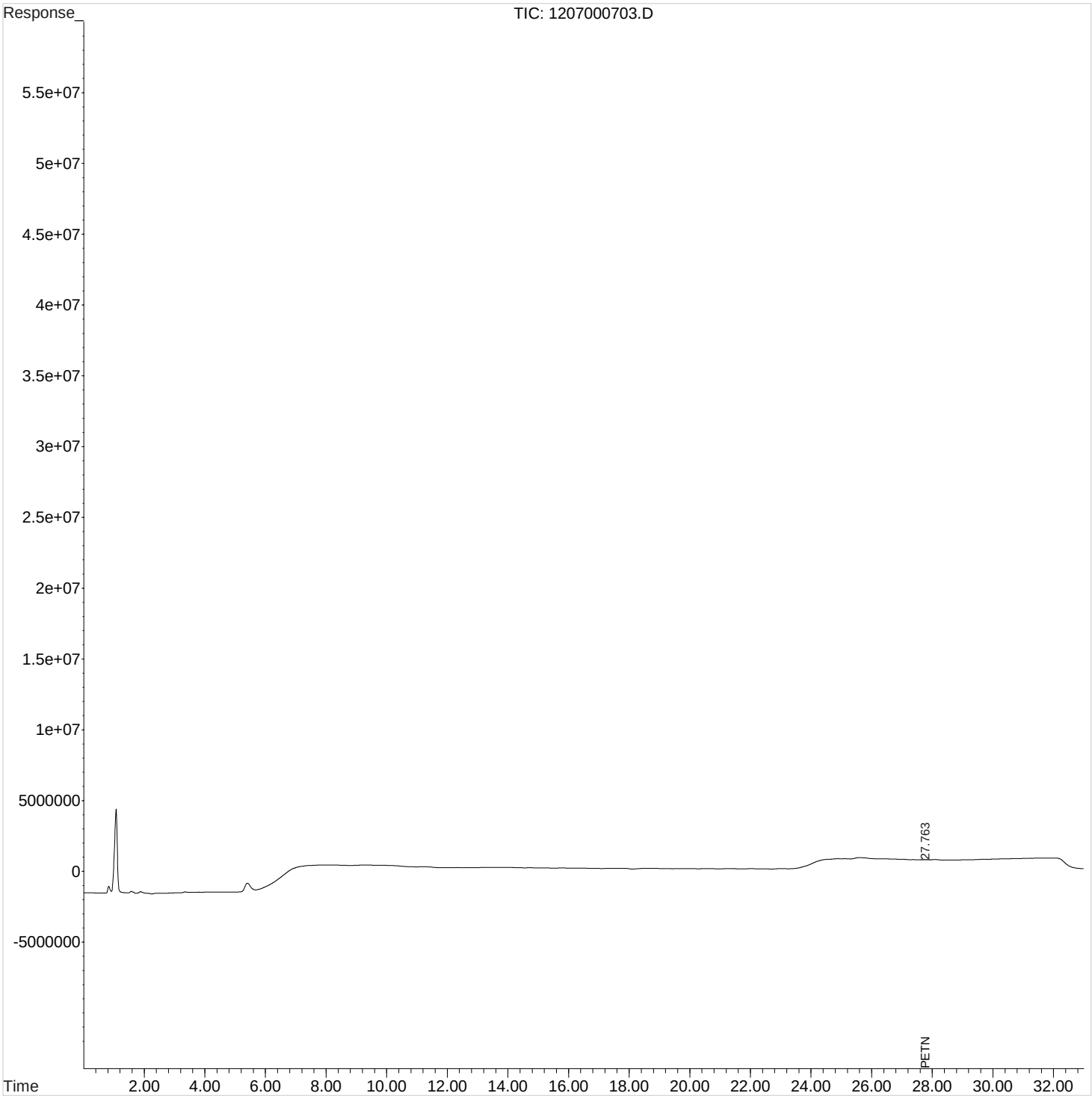
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000703.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 19:36:44 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:14:56 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:09:42 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:04 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.707	3217434	NoCal	ug/L	m
Target Compounds						
1) T	Nitroglycerin	16.654	1445069	NoCal	ug/L	m
2) T	PETN	27.787	1323782	NoCal	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

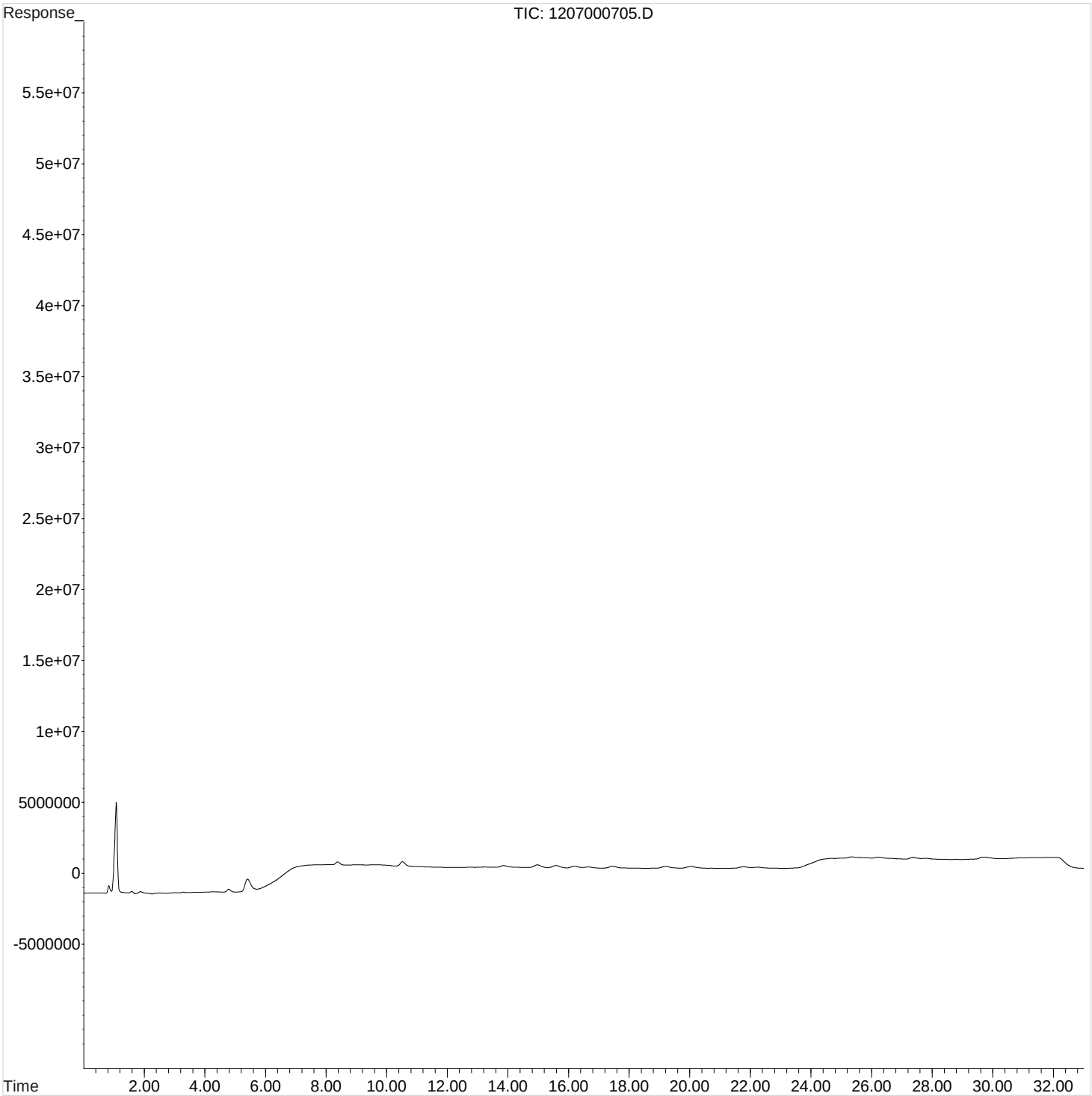
Quantitation Report (QT Reviewed)

(b) (6)
1st 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:04 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



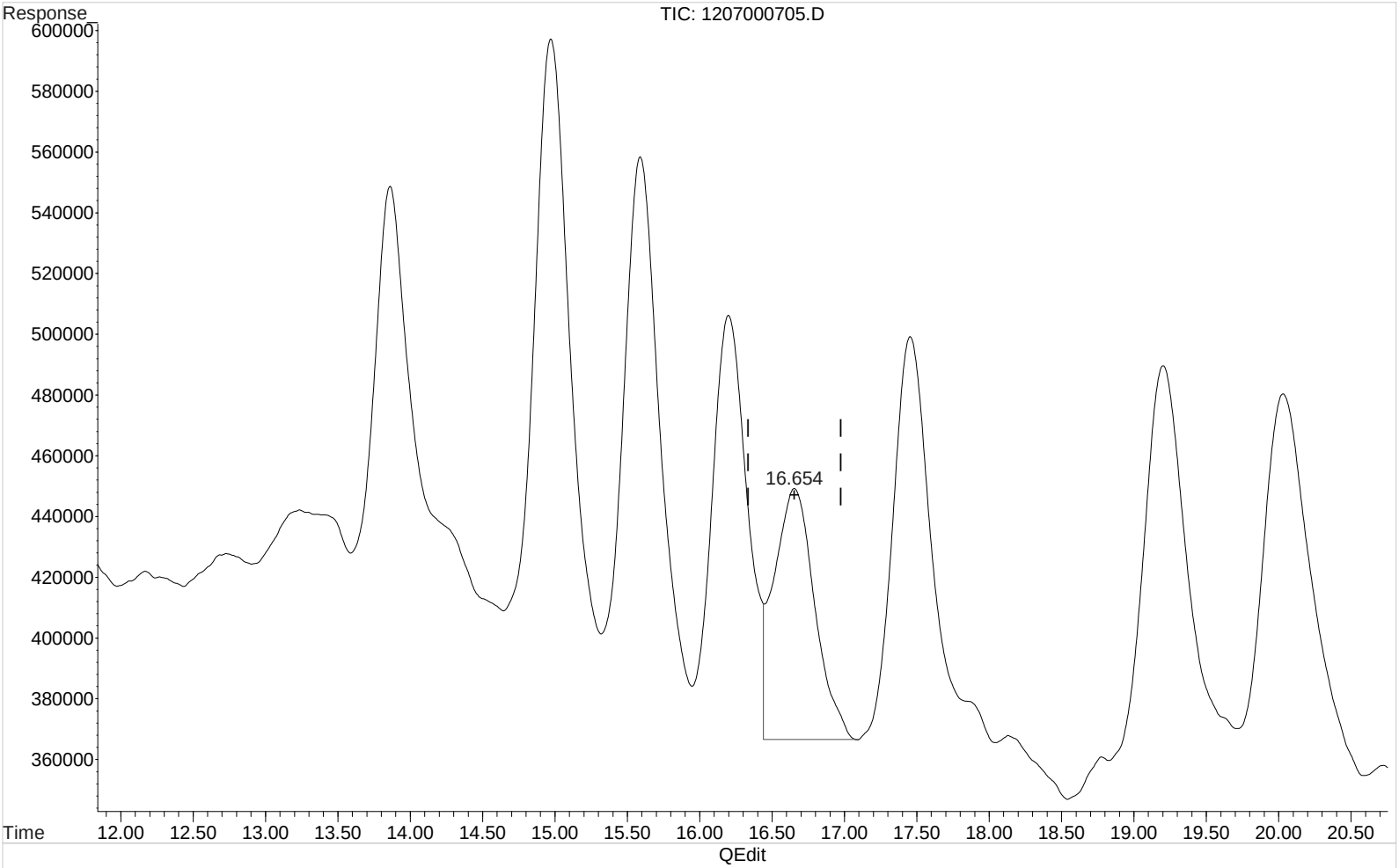
Quantitation Report (Qedit)

(b)(6) 1st 12/08/16 2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:26:17 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.654min 0.000 ug/L

response 1614875

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

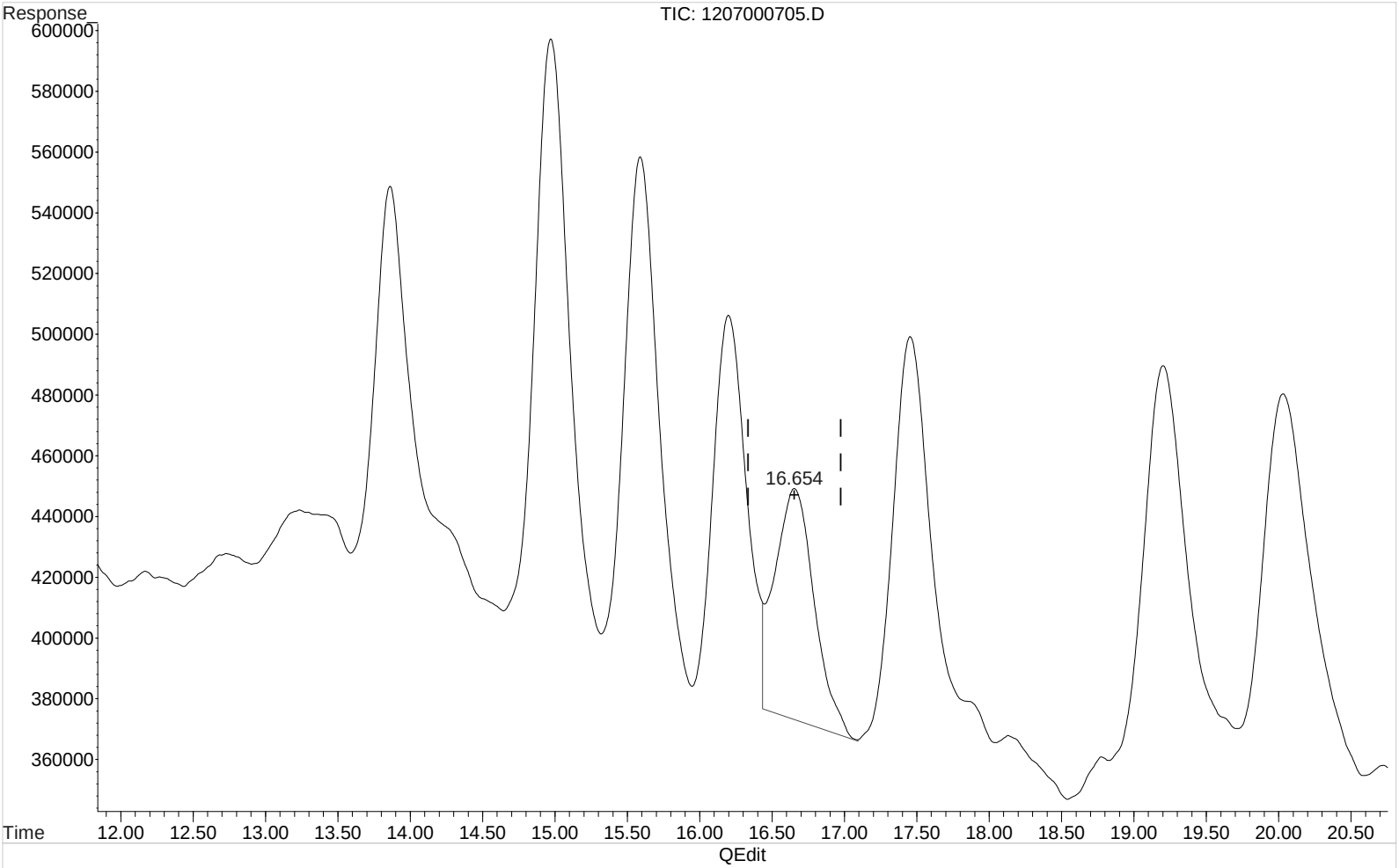
Quantitation Report (Qedit)

(b)(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:26:17 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.654min 0.000 ug/L m

response 1445069

Manual Integration:

After

BLC

12/08/16

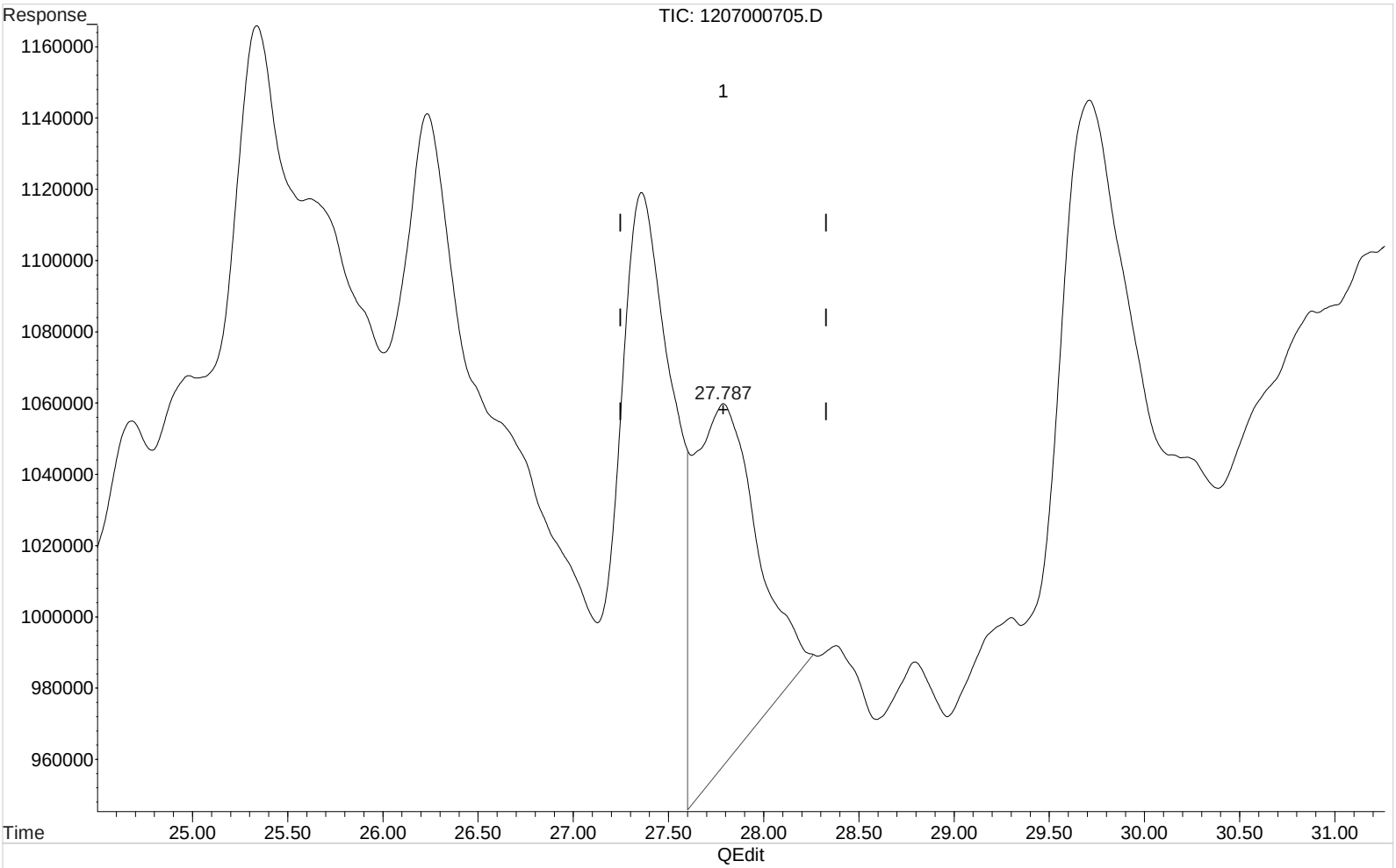
(+) = Expected Retention Time

(b) (6)
1st 12/08/16
2n 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:26:17 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.787min 0.000 ug/L

response 2332366

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

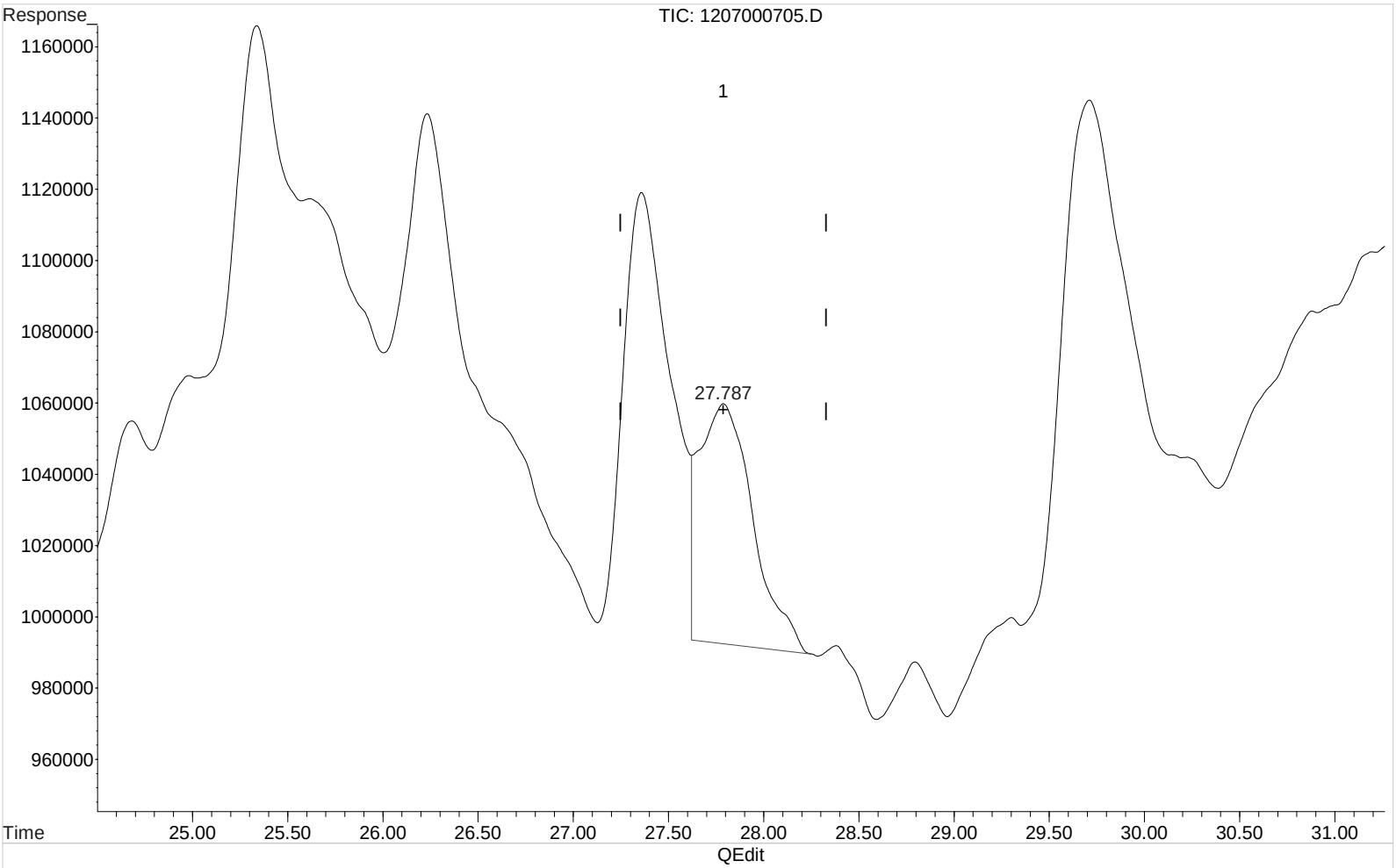
Quantitation Report (Qedit)

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:26:17 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.787min 0.000 ug/L m

response 1323782

Manual Integration:

After

BLC

12/08/16

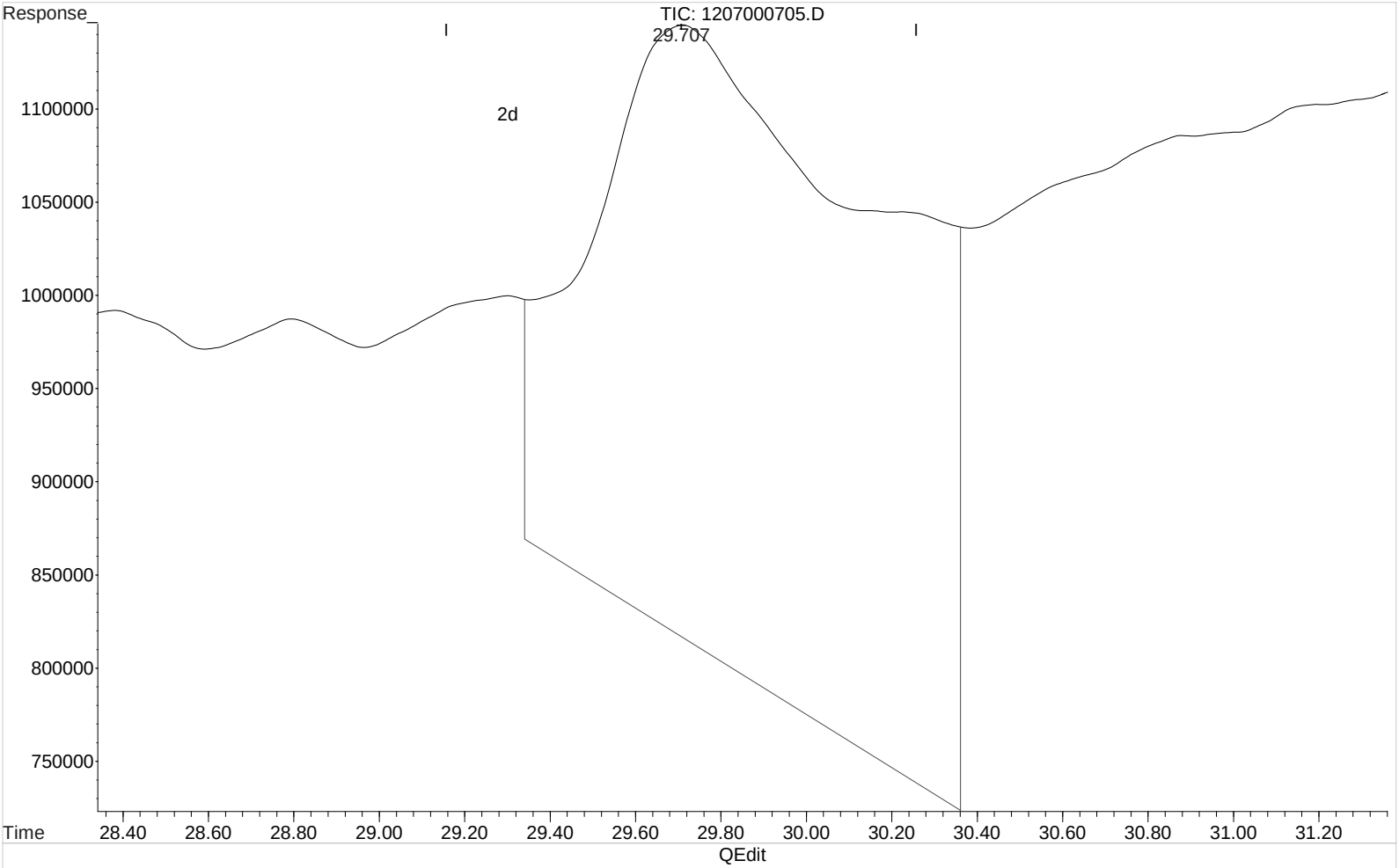
(+) = Expected Retention Time

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:26:17 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

29.707min 0.000 ug/L

response 16661309

Manual Integration:

Before

12/08/16

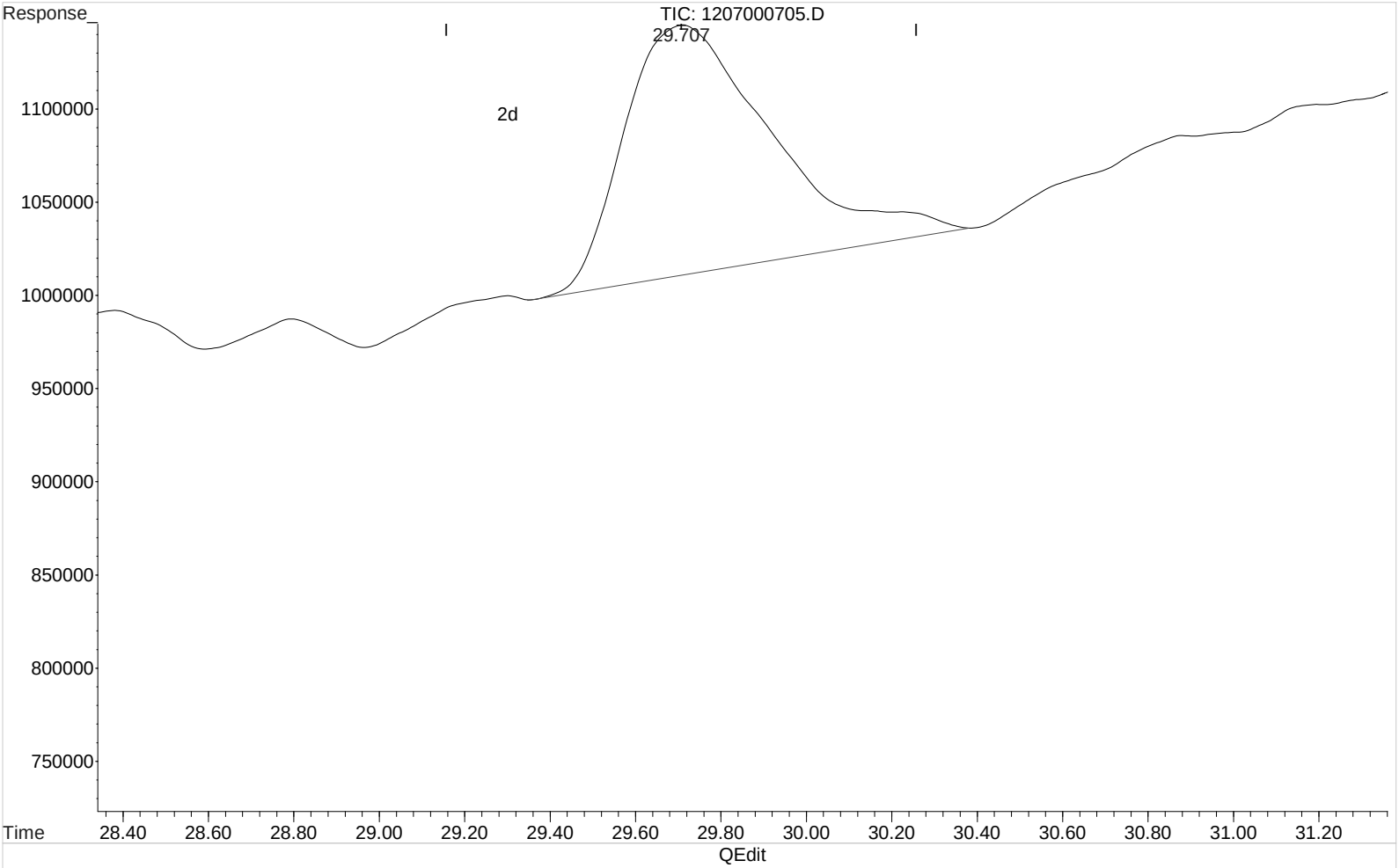
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:26:17 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

29.707min 0.000 ug/L m

response 3217434

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:28:57 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	29.681	5676794	88.219 ug/L m
Target Compounds				
1) T	Nitroglycerin	16.655	2024810	70.059 ug/L m
2) T	PETN	27.755	1480479	55.919 ug/L m

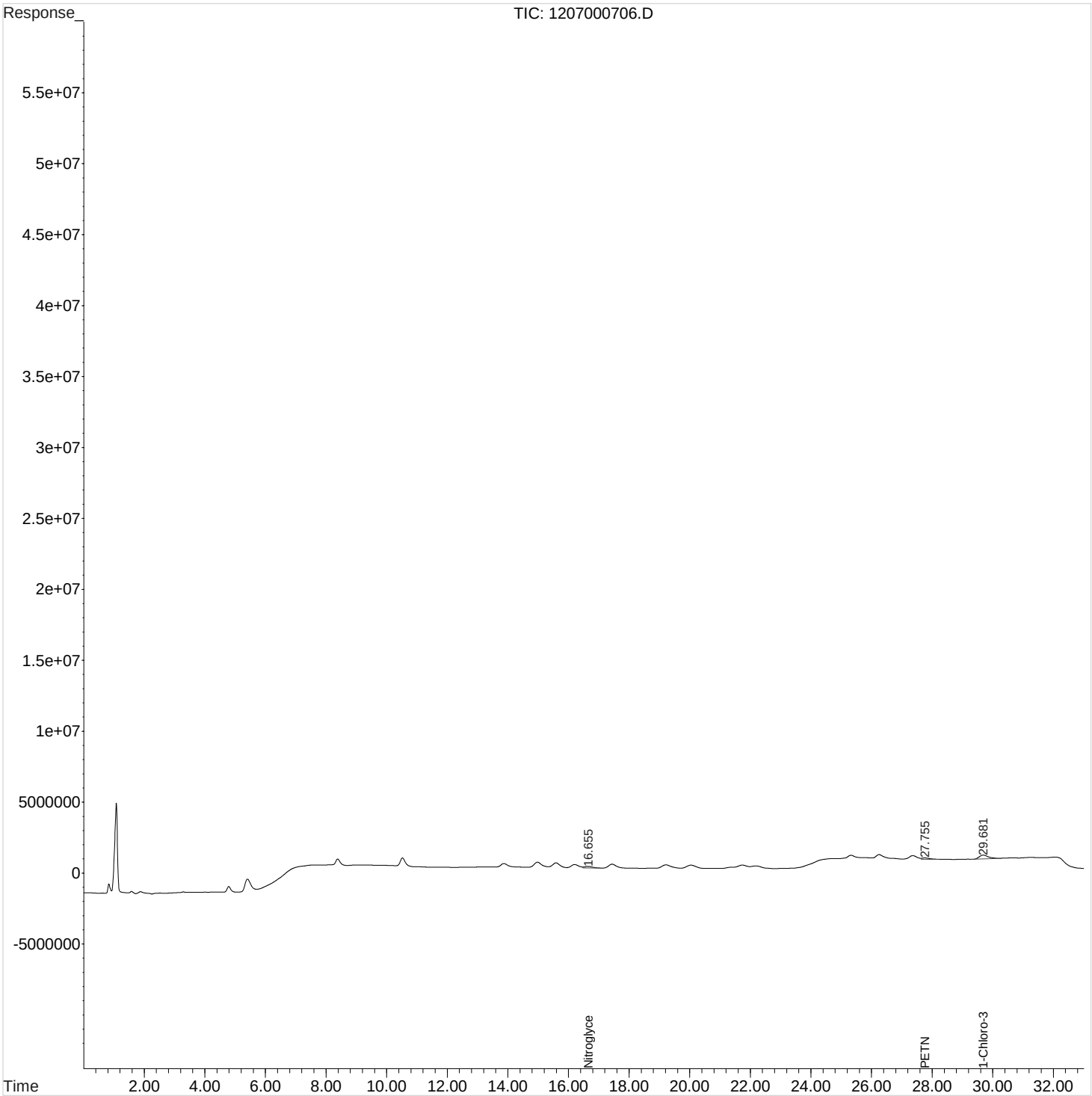
(f)=RT Delta > 1/2 Window (m)=manual int.

(b)(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:28:57 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

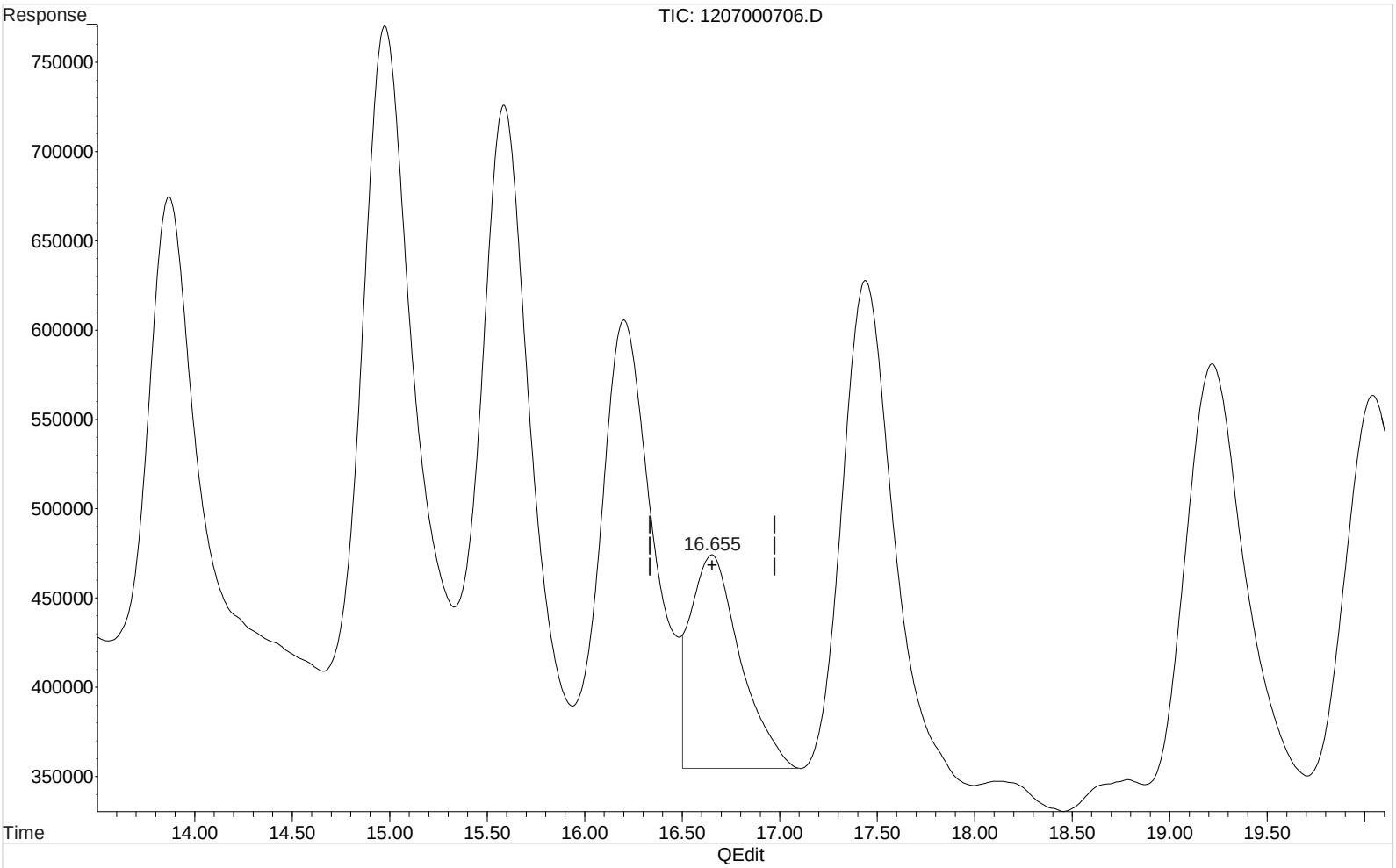


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.655min 73.227 ug/L

response 2116350

Manual Integration:

Before

12/08/16

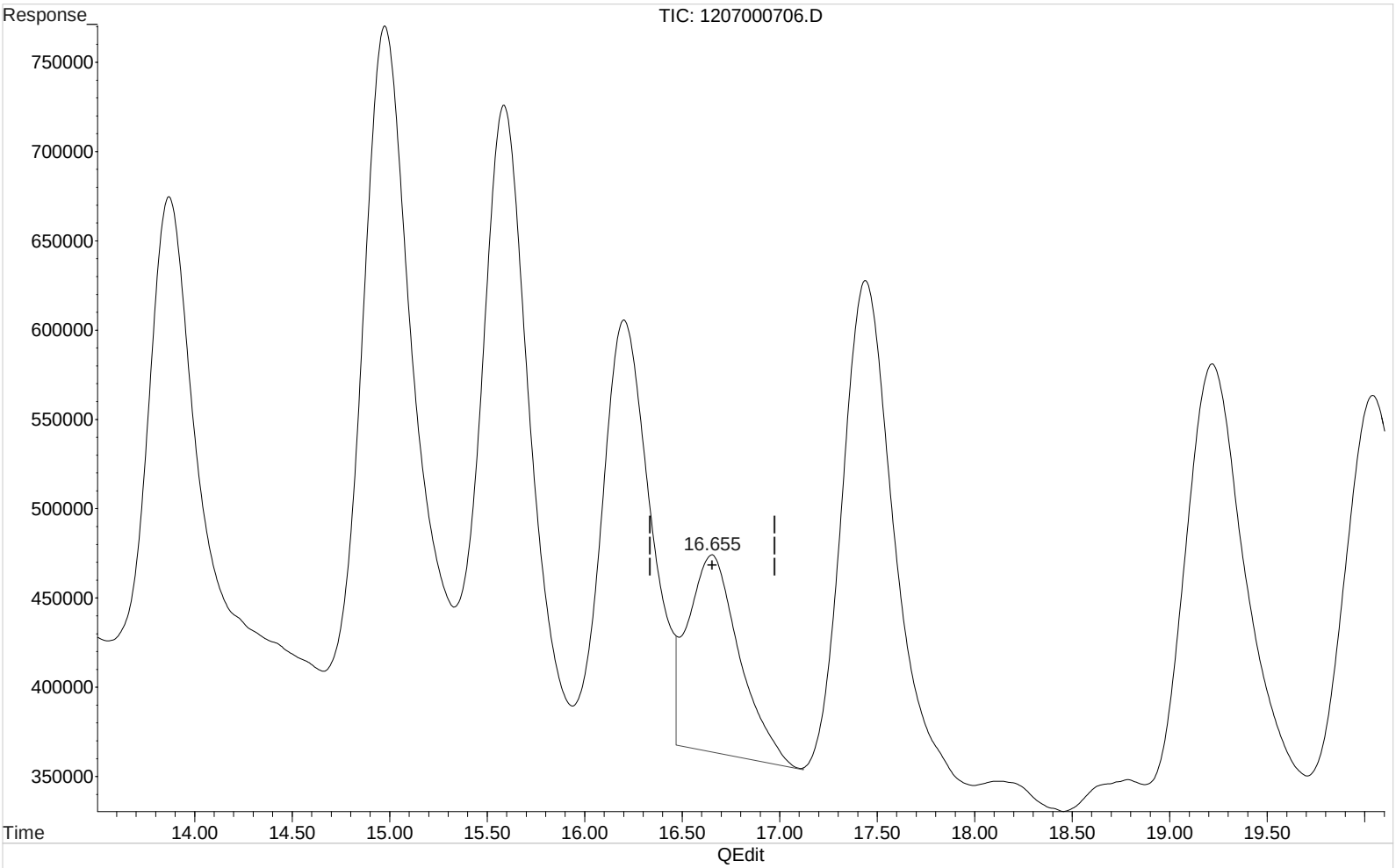
(+) = Expected Retention Time

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.655min 70.059 ug/L m

response 2024810

Manual Integration:

After

BLC

12/08/16

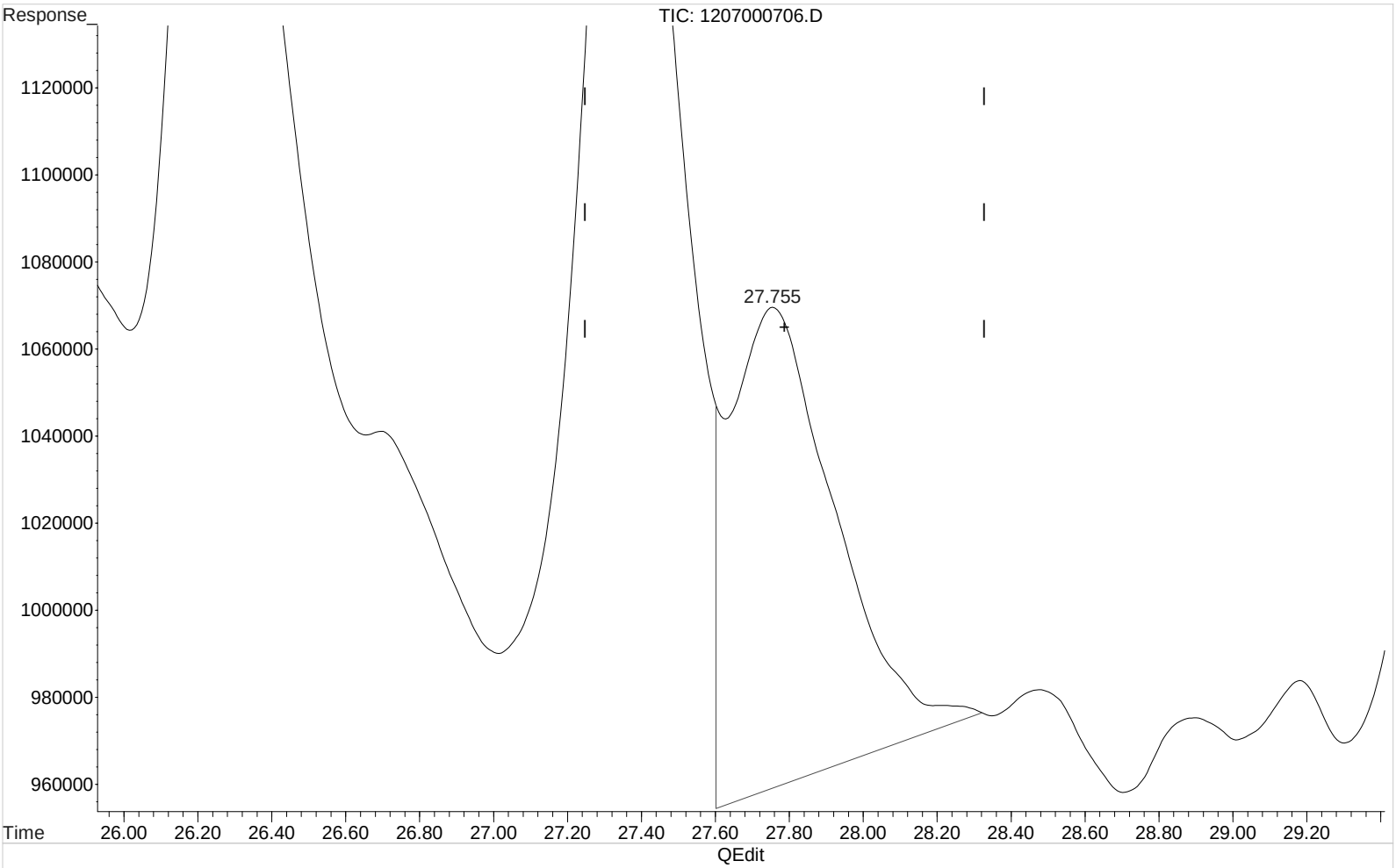
(+) = Expected Retention Time

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.755min 83.103 ug/L

response 2200200

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

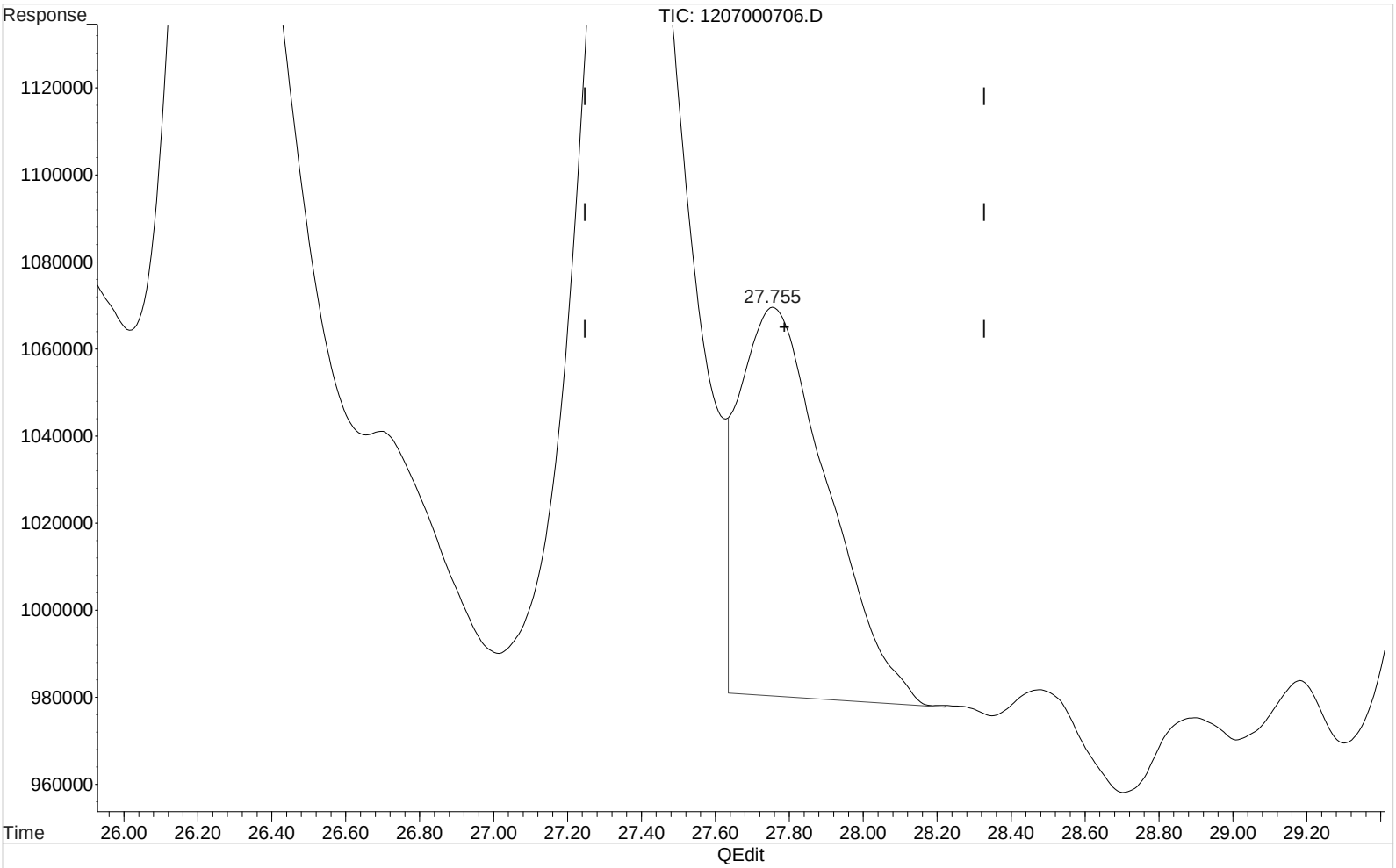
Quantitation Report (Qedit)

1st (b) (6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.755min 55.919 ug/L m

response 1480479

Manual Integration:

After

BLC

12/08/16

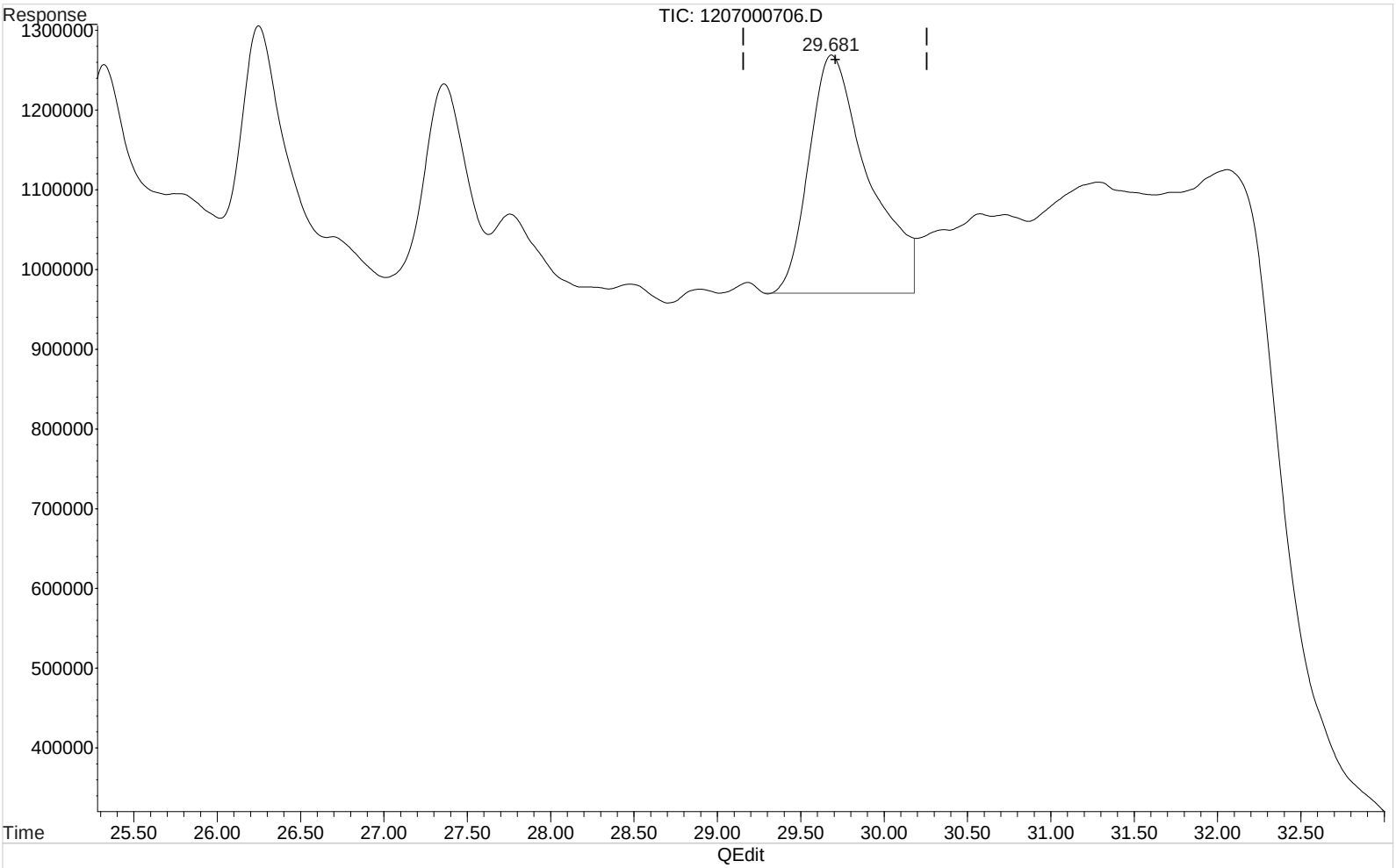
(+) = Expected Retention Time

1st (b)(6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

29.681min 115.316 ug/L

response 7420411

Manual Integration:

Before

12/08/16

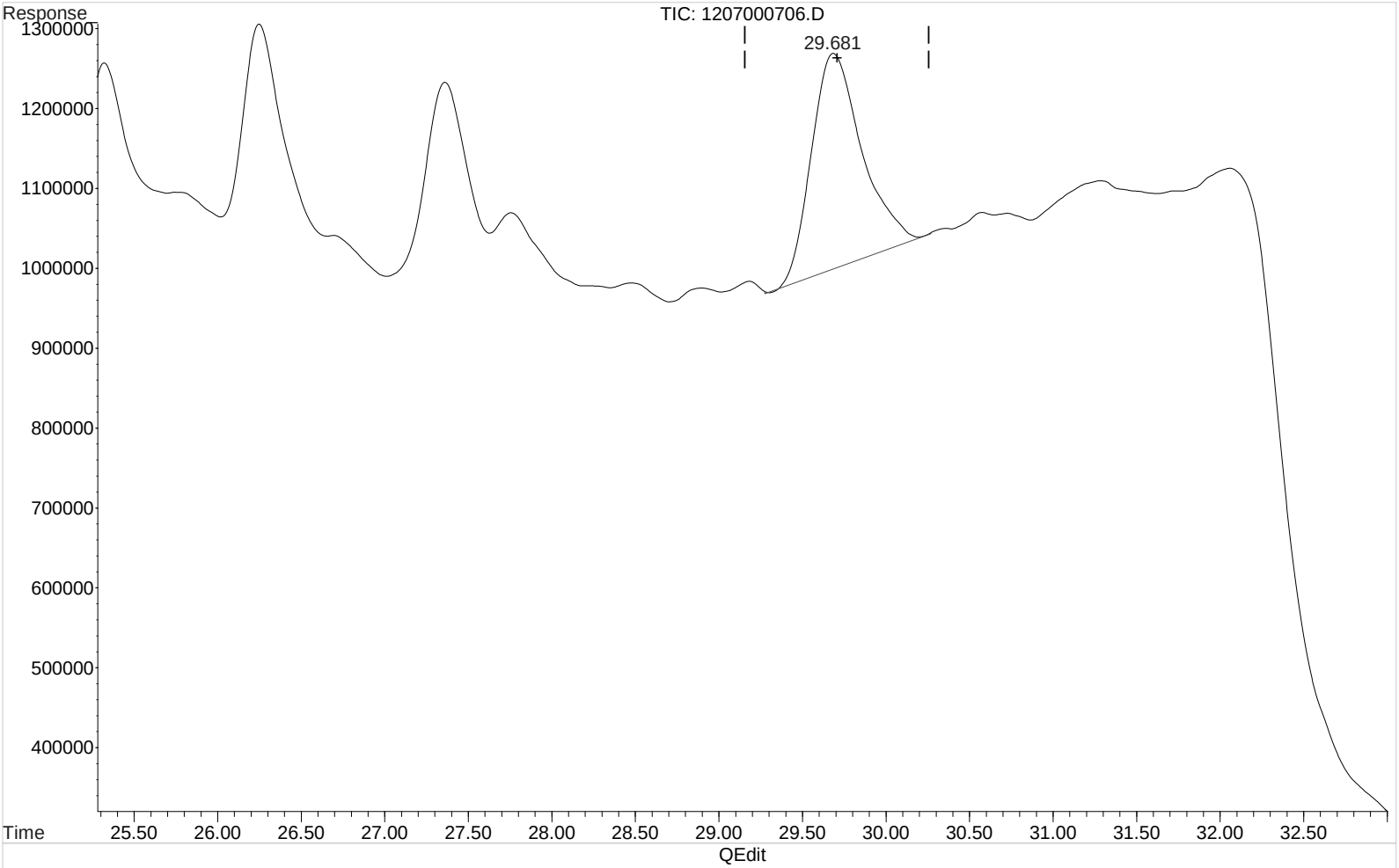
(+) = Expected Retention Time

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

29.681min 88.219 ug/L m

response 5676794

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

1st (b)(6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:07:38 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	29.700	11544733	190.638 ug/L m
Target Compounds				
1) T	Nitroglycerin	16.646	3508399	142.764 ug/L m
2) T	PETN	27.773	3761772	182.254 ug/L m

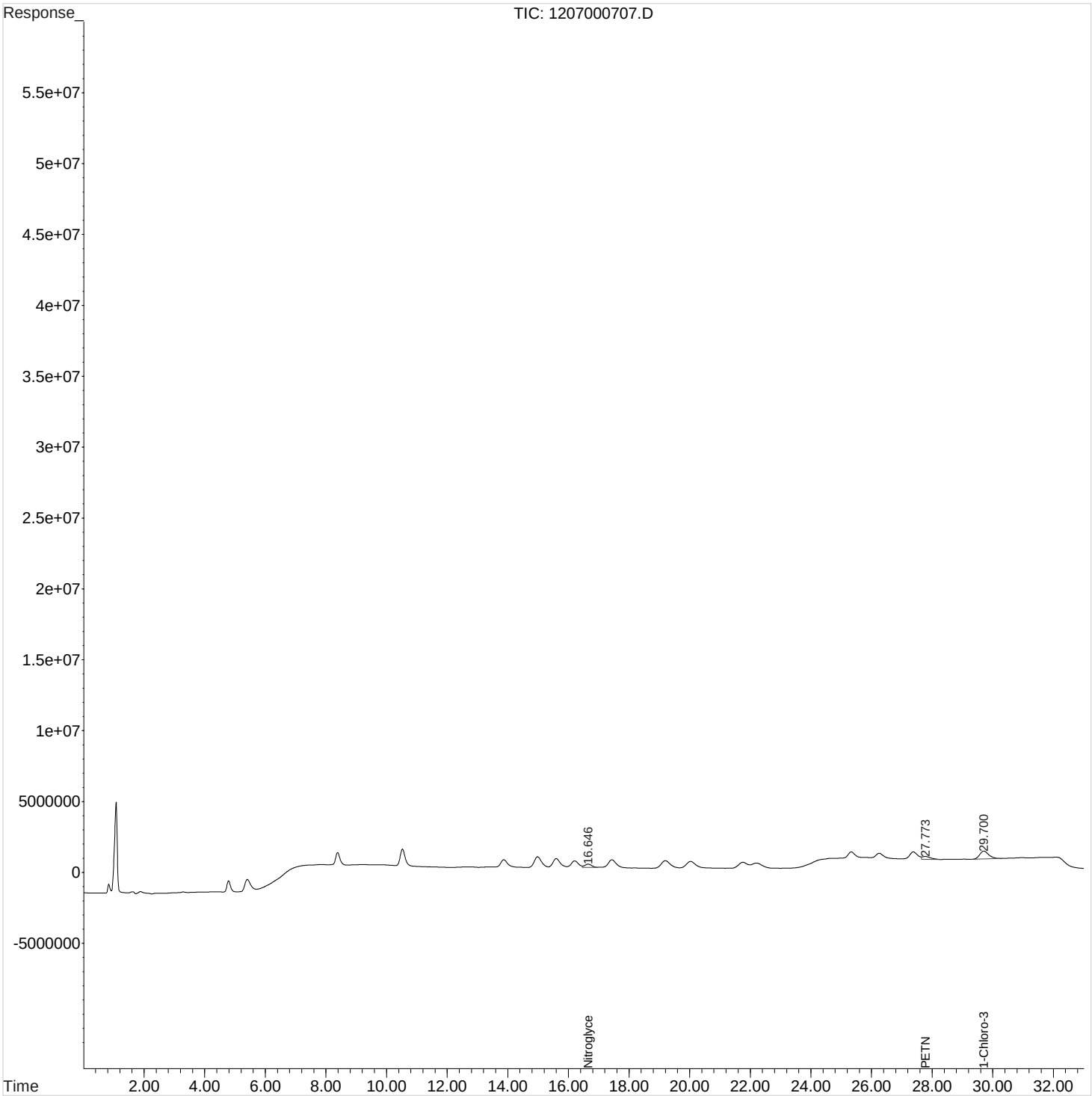
(f)=RT Delta > 1/2 Window (m)=manual int.

1st (b) (6) 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:07:38 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

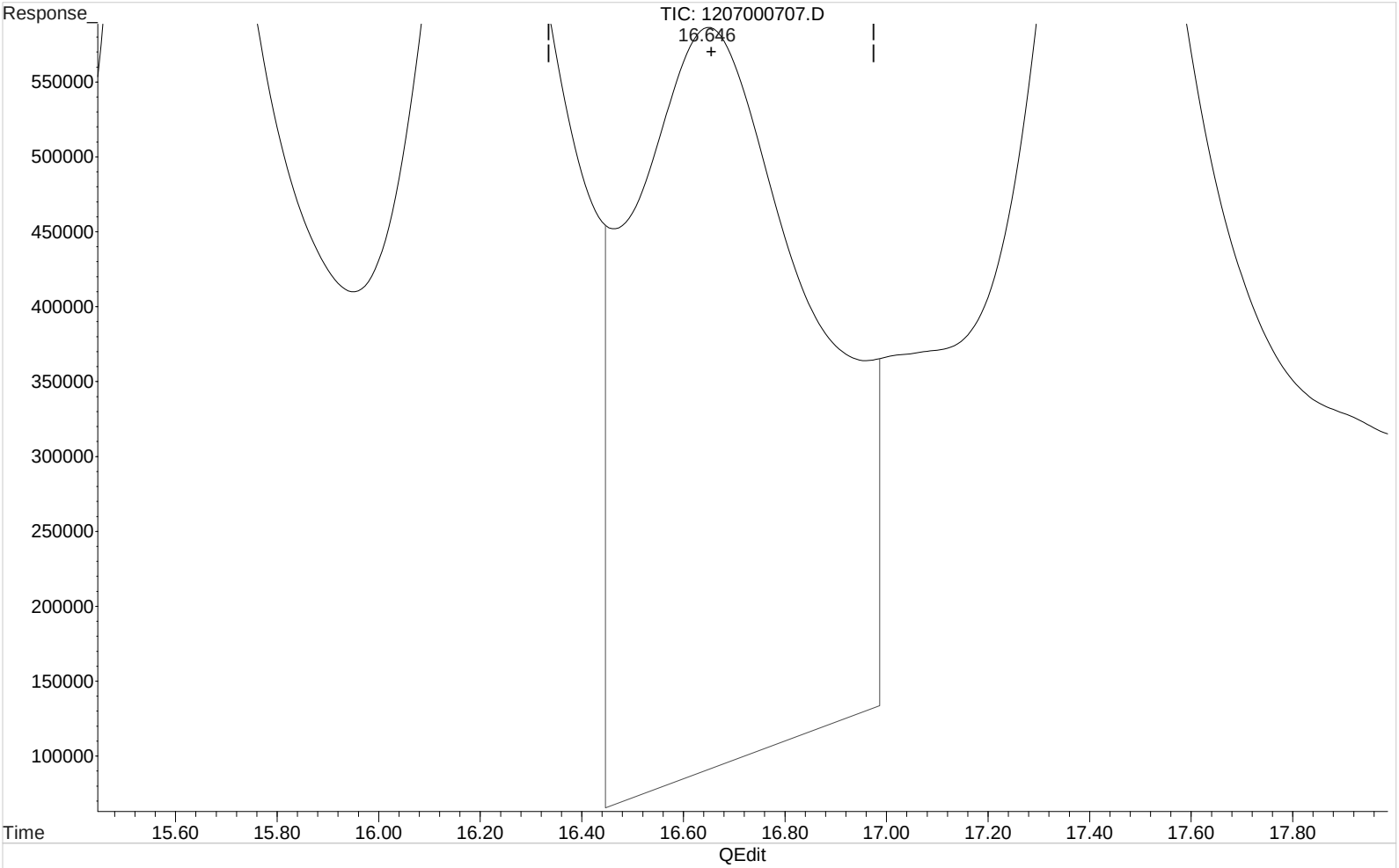


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:29:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.646min 492.695 ug/L

response 12107848

Manual Integration:

Before

12/08/16

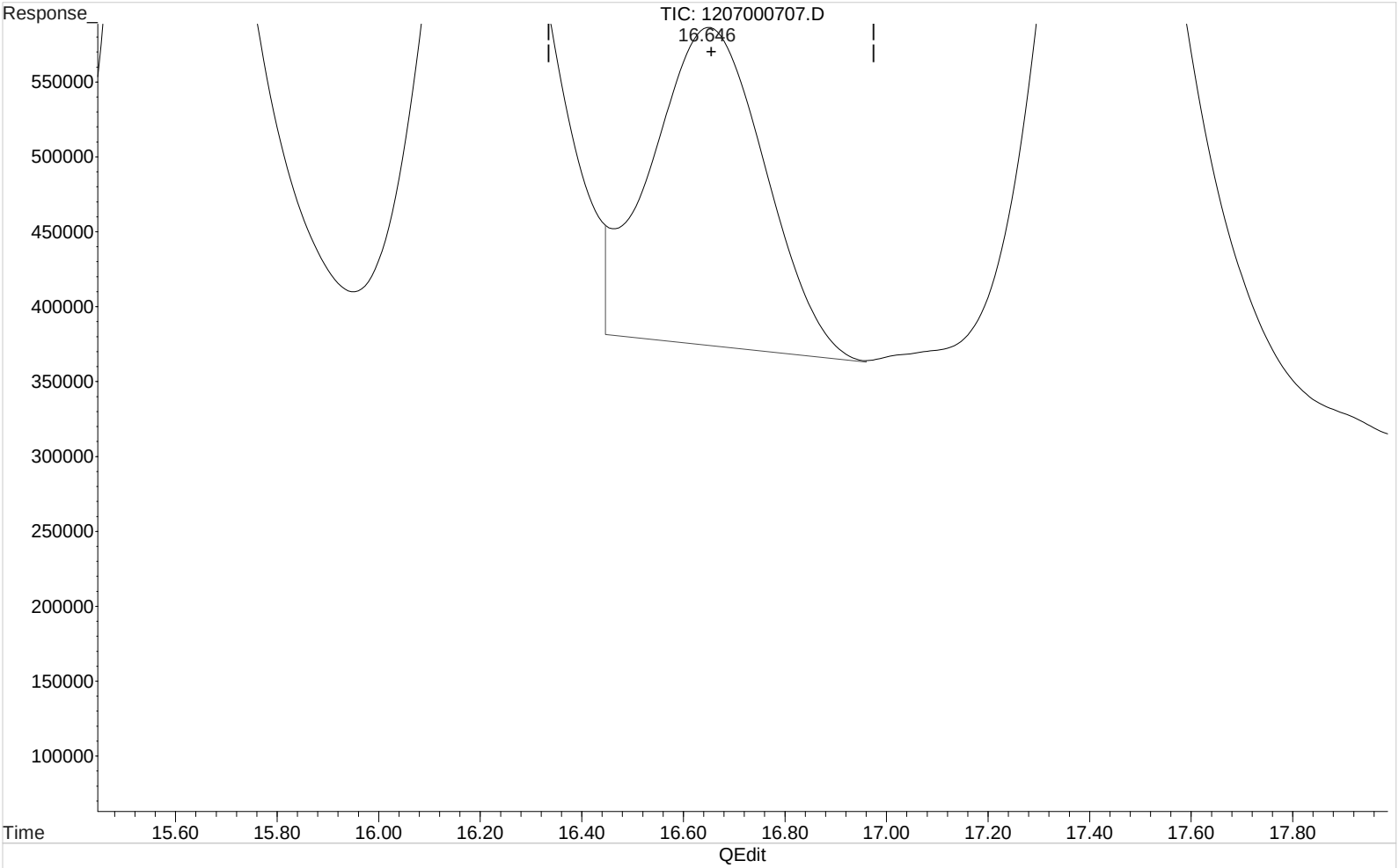
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:29:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.646min 133.721 ug/L m

response 3286165

Manual Integration:

After

BLC

12/08/16

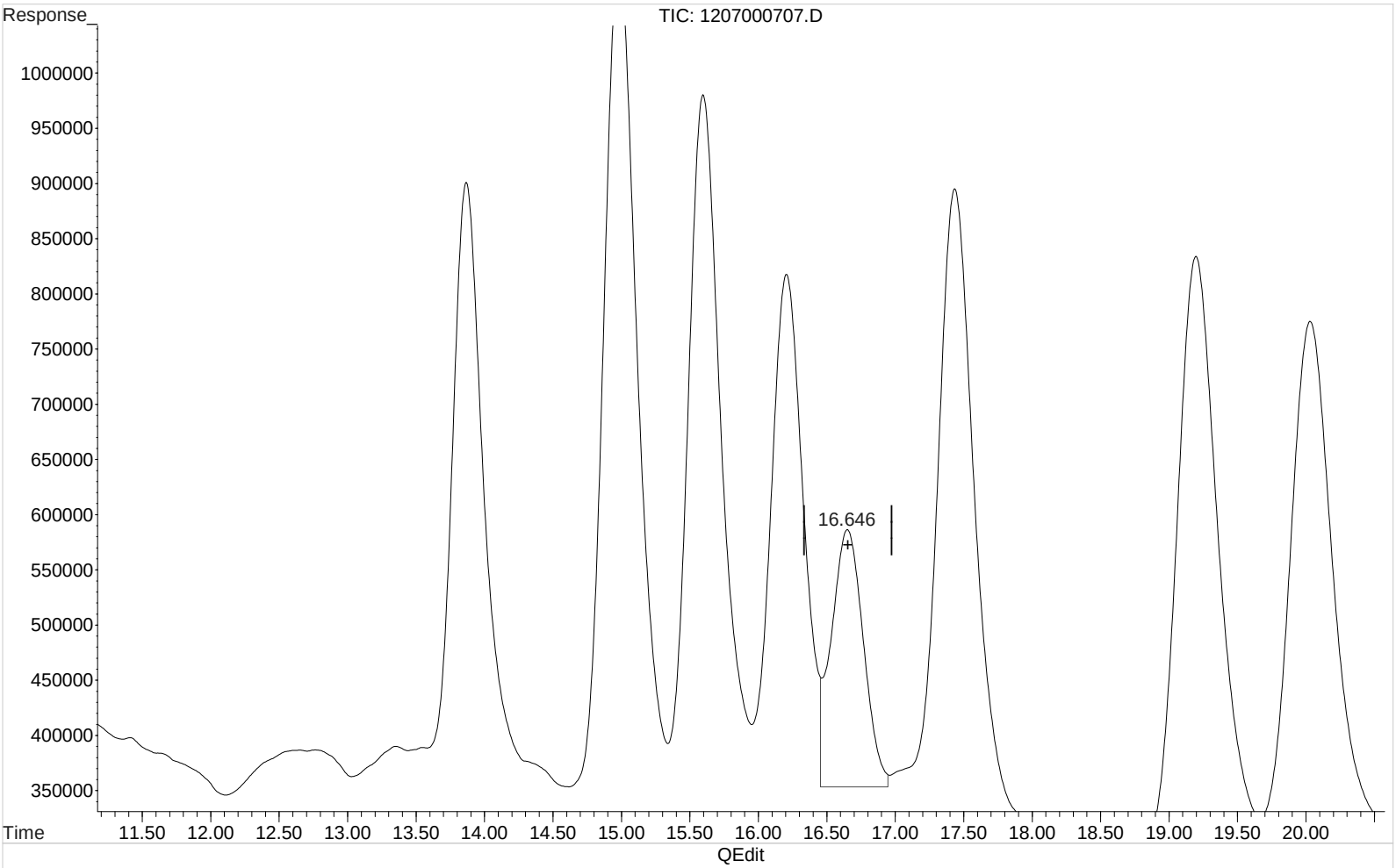
(+) = Expected Retention Time

1st (b)(6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:30:15 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.646min 155.245 ug/L m

response 3815102

Manual Integration:

After

BLC

12/08/16

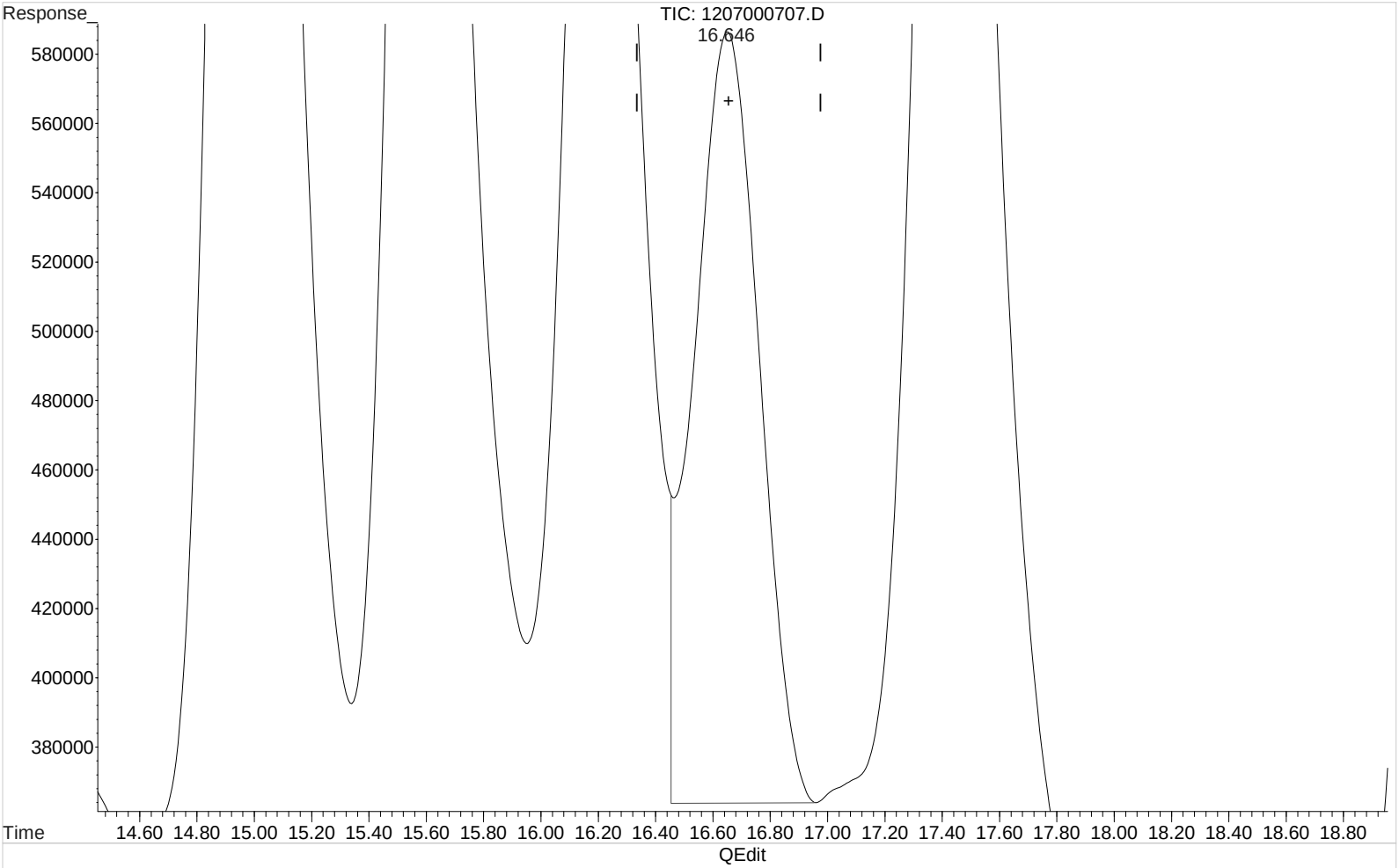
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:40:45 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.646min 142.764 ug/L m

response 3508399

Manual Integration:

After

Baseline/Shoulder

12/08/16

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

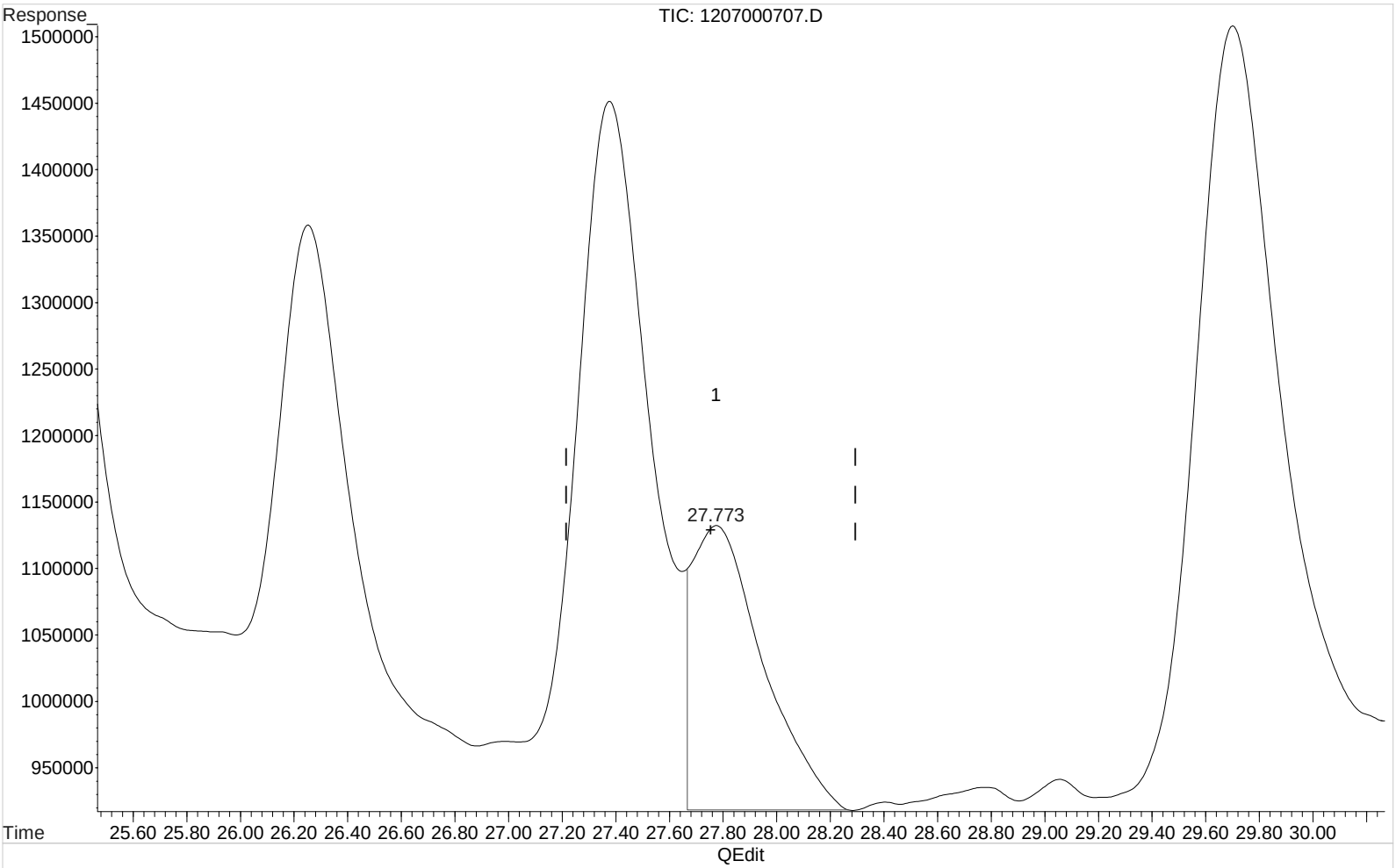
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:29:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.773min 187.377 ug/L

response 3867500

Manual Integration:

Before

12/08/16

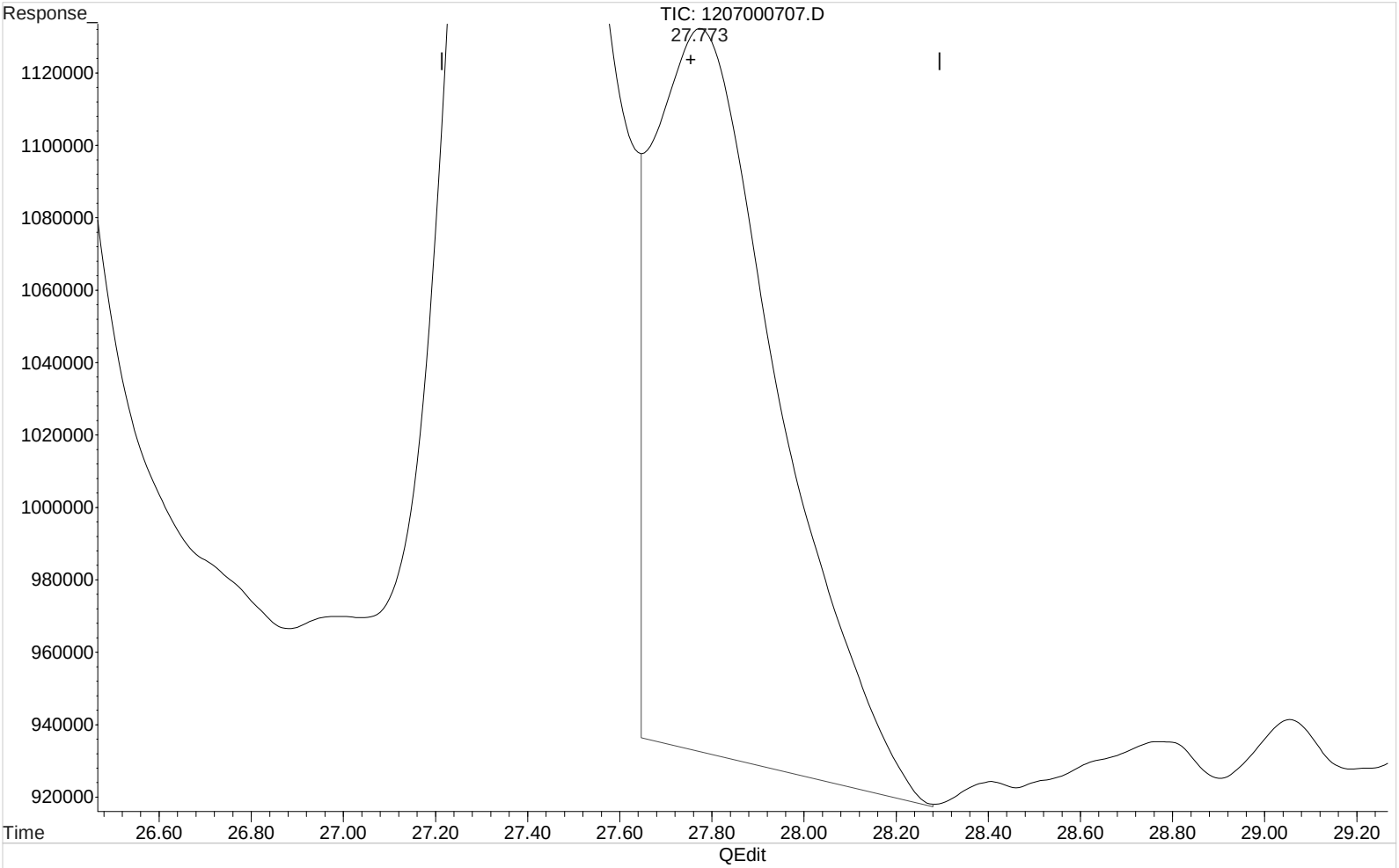
(+) = Expected Retention Time

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:40:45 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.773min 182.254 ug/L m

response 3761772

Manual Integration:

After

Baseline/Shoulder

12/08/16

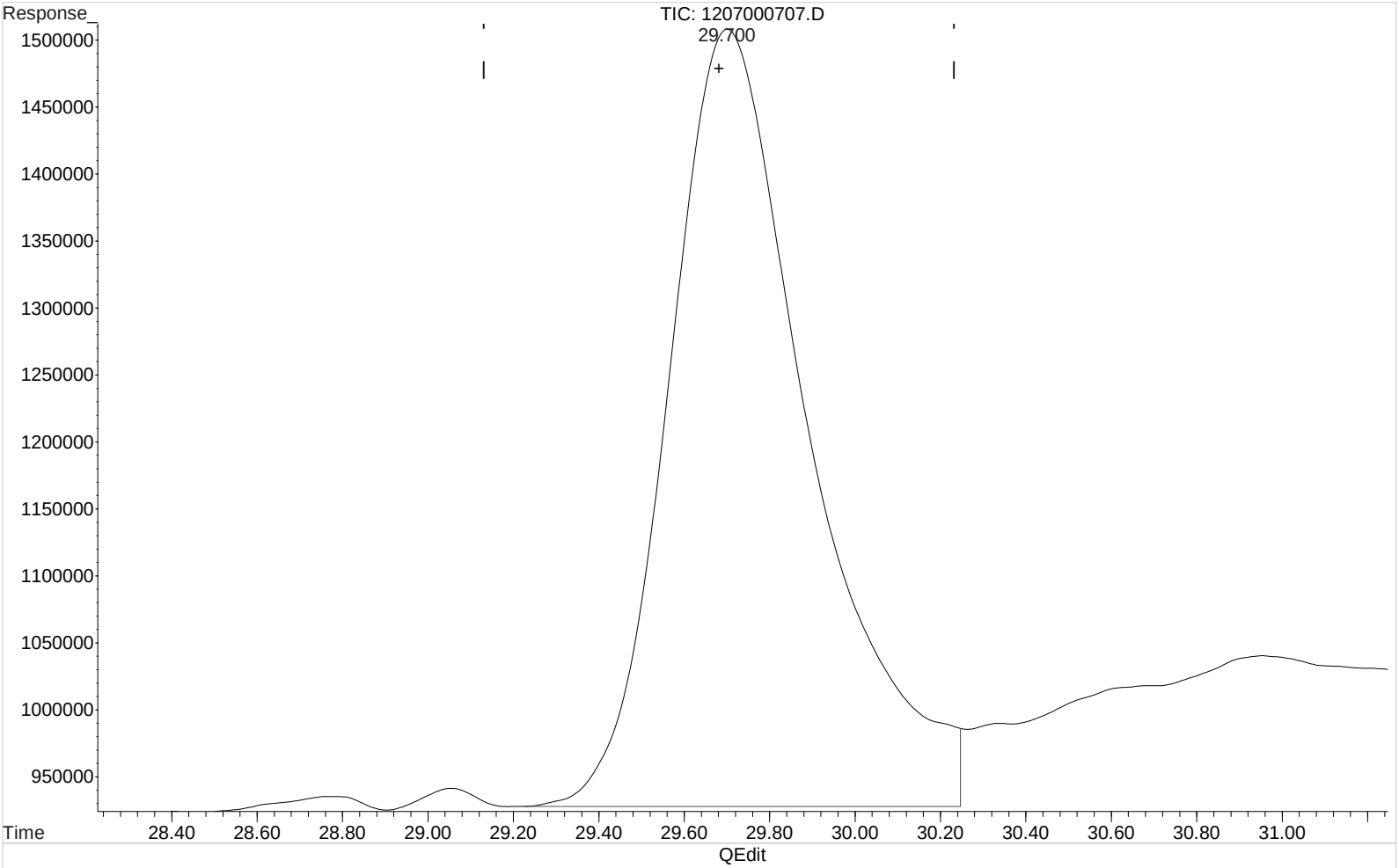
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:29:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.700min 218.688 ug/L

response 13243379

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

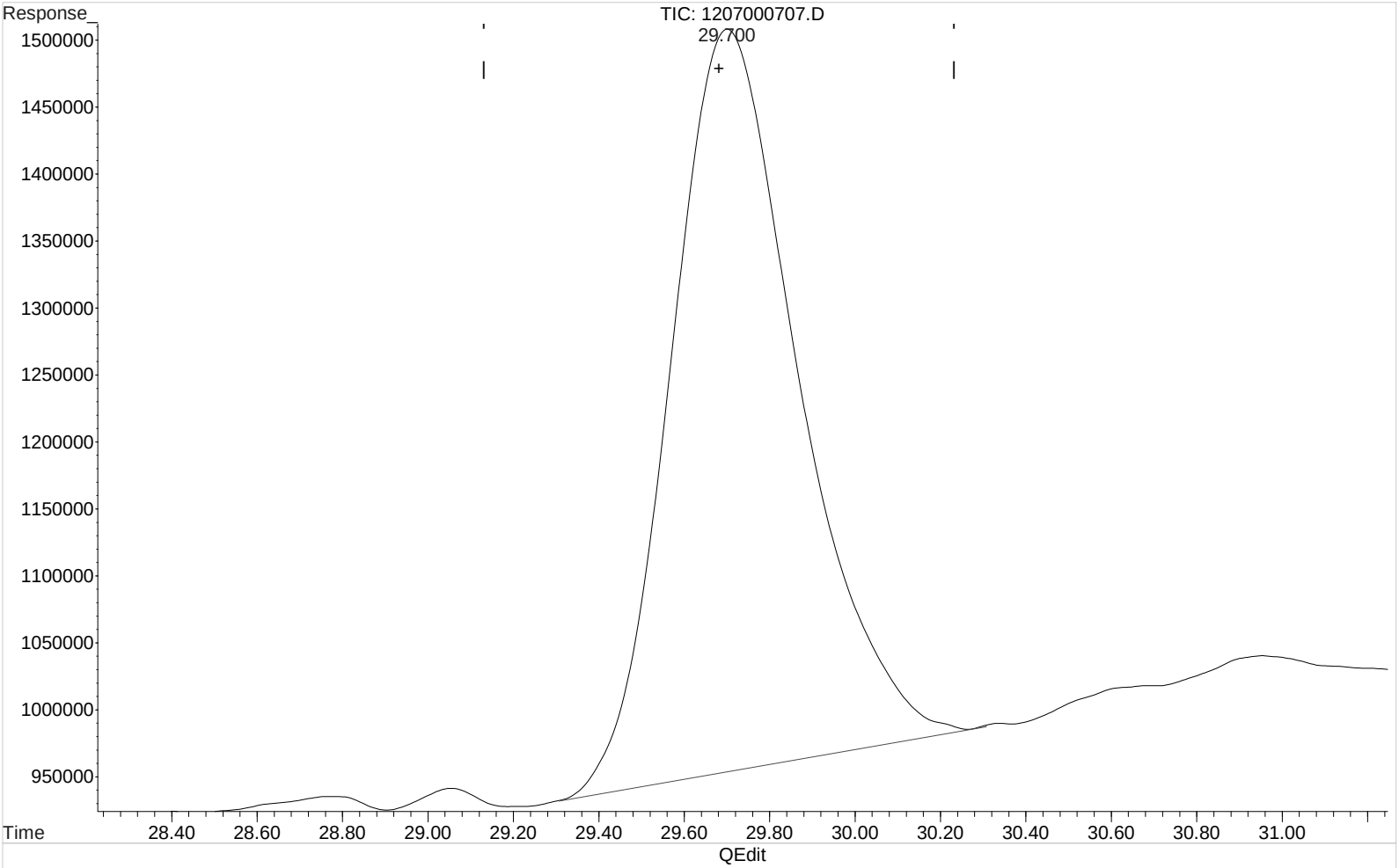
Quantitation Report (Qedit)

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:29:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.700min 190.638 ug/L m

response 11544733

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000708.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:08:18 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:30:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	29.705	28560027	479.087 ug/L m
Target Compounds				
1) T	Nitroglycerin	16.639	11239759	514.168 ug/L
2) T	PETN	27.792	8986852	439.492 ug/L m

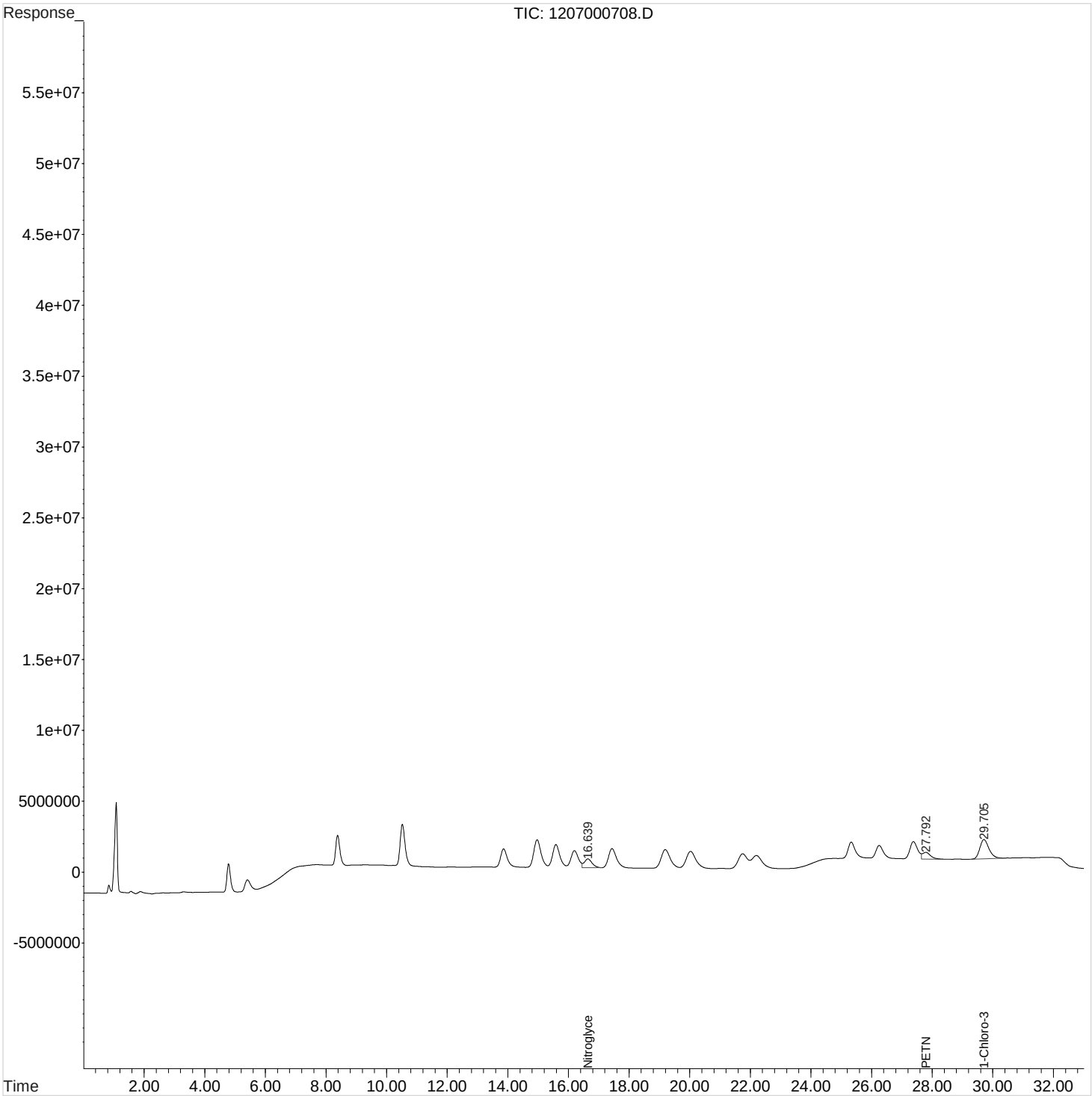
(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000708.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:08:18 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:30:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

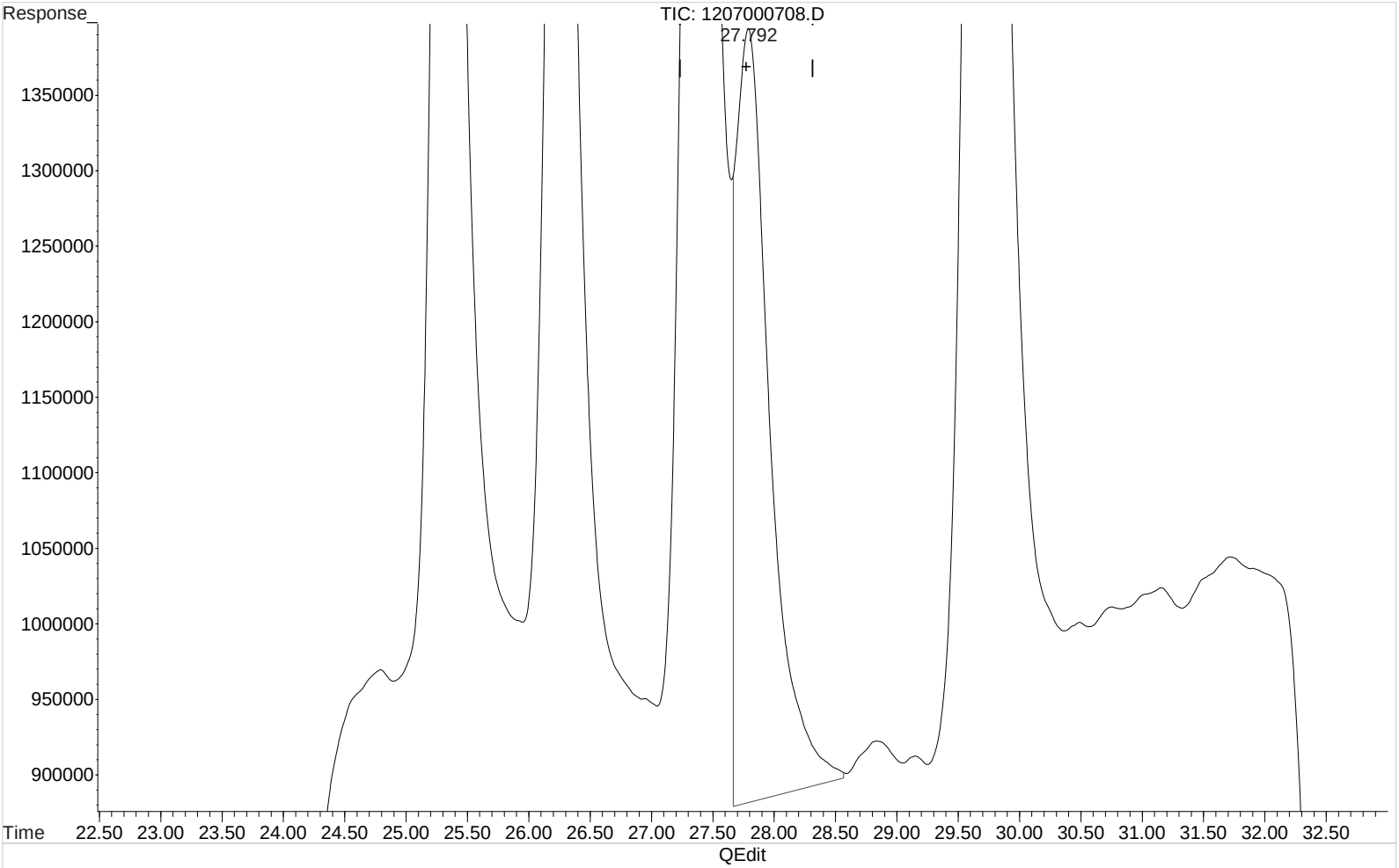


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000708.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:30:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:30:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.792min 480.822 ug/L

response 9831980

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

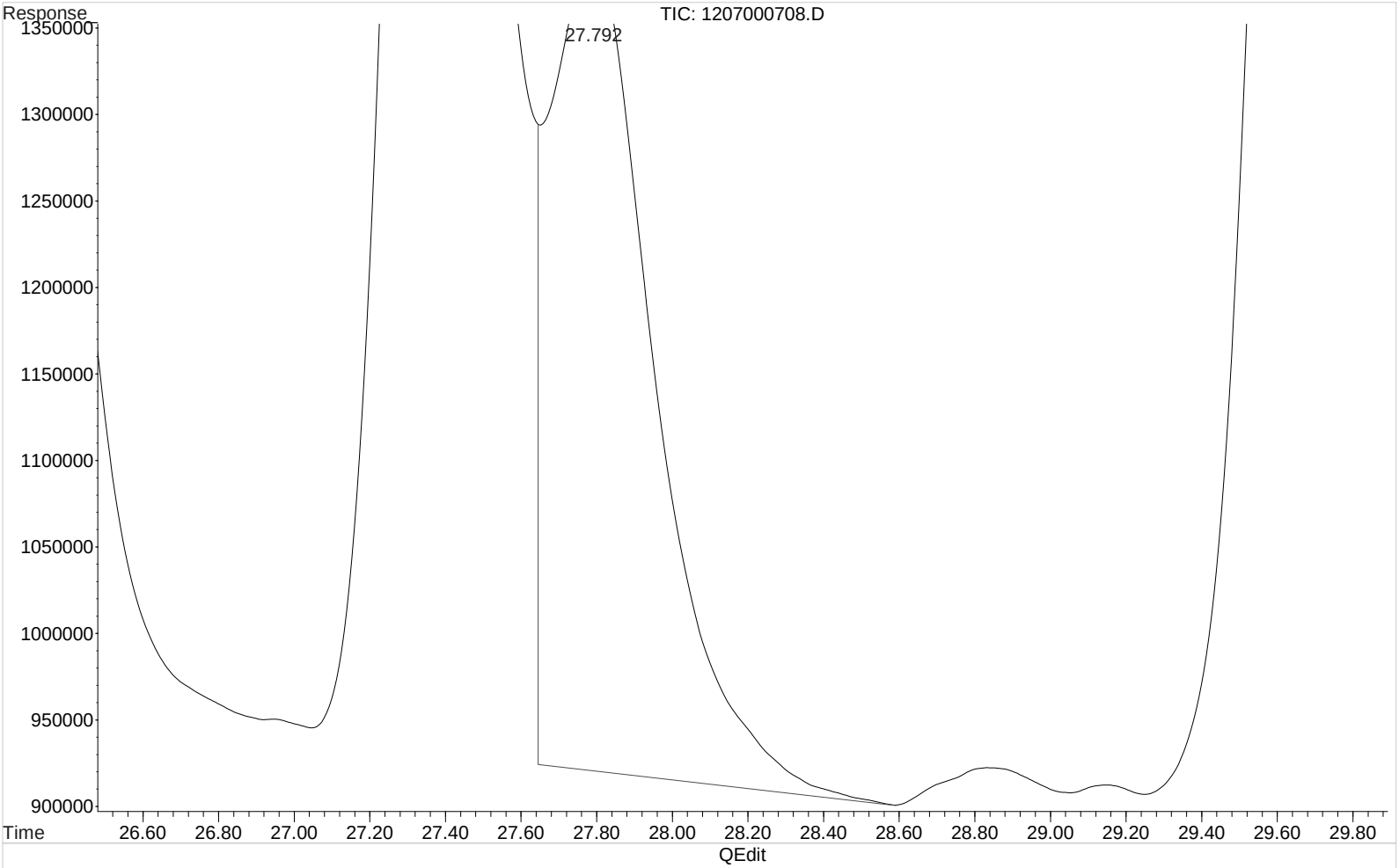
Quantitation Report (Qedit)

1st (b) (6) 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000708.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:31:41 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:30:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.792min 439.492 ug/L m

response 8986852

Manual Integration:

After

Baseline/Shoulder

12/08/16

(+) = Expected Retention Time

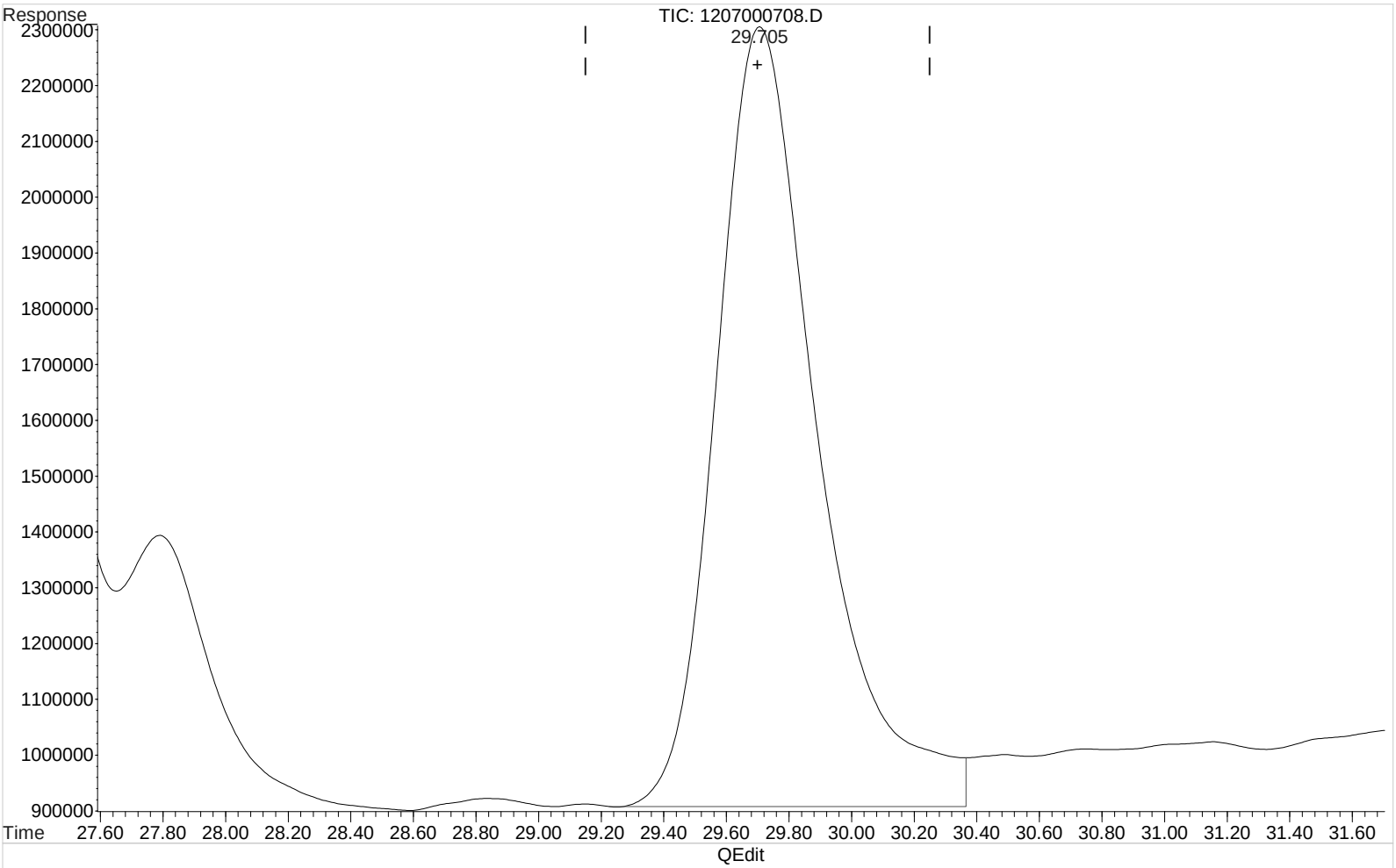
Quantitation Report (Qedit)

1st (b)(6) 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000708.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:30:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:30:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.705min 527.464 ug/L

response 31443916

Manual Integration:

Before

12/08/16

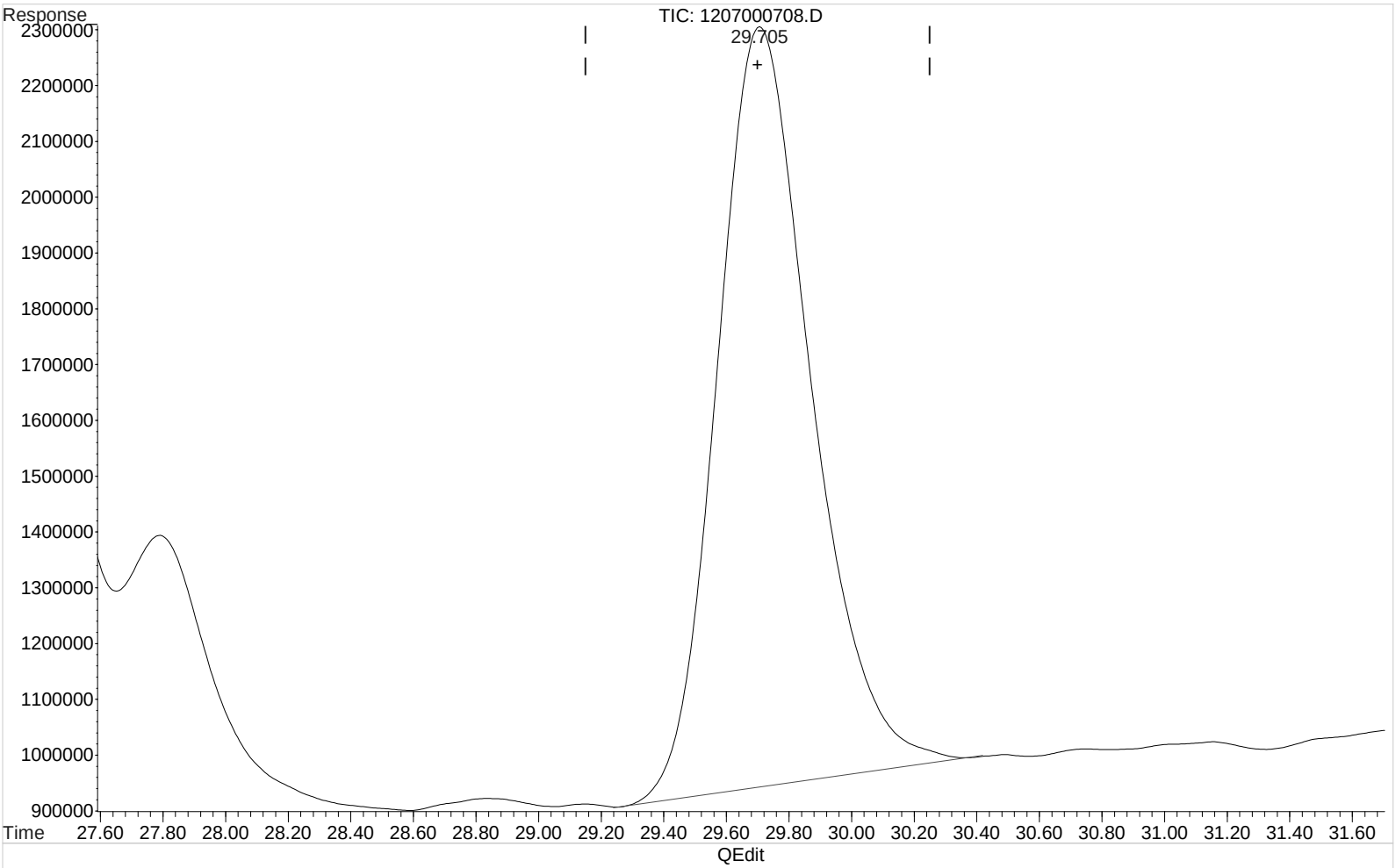
(+) = Expected Retention Time

1st (b) (6) 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000708.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:30:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:30:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.705min 479.087 ug/L m

response 28560027

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:33:37 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	29.704	55010487	932.538 ug/L m
Target Compounds				
1) T	Nitroglycerin	16.630	21521854	977.602 ug/L m
2) T	PETN	27.784	18036372	902.302 ug/L m

(f)=RT Delta > 1/2 Window (m)=manual int.

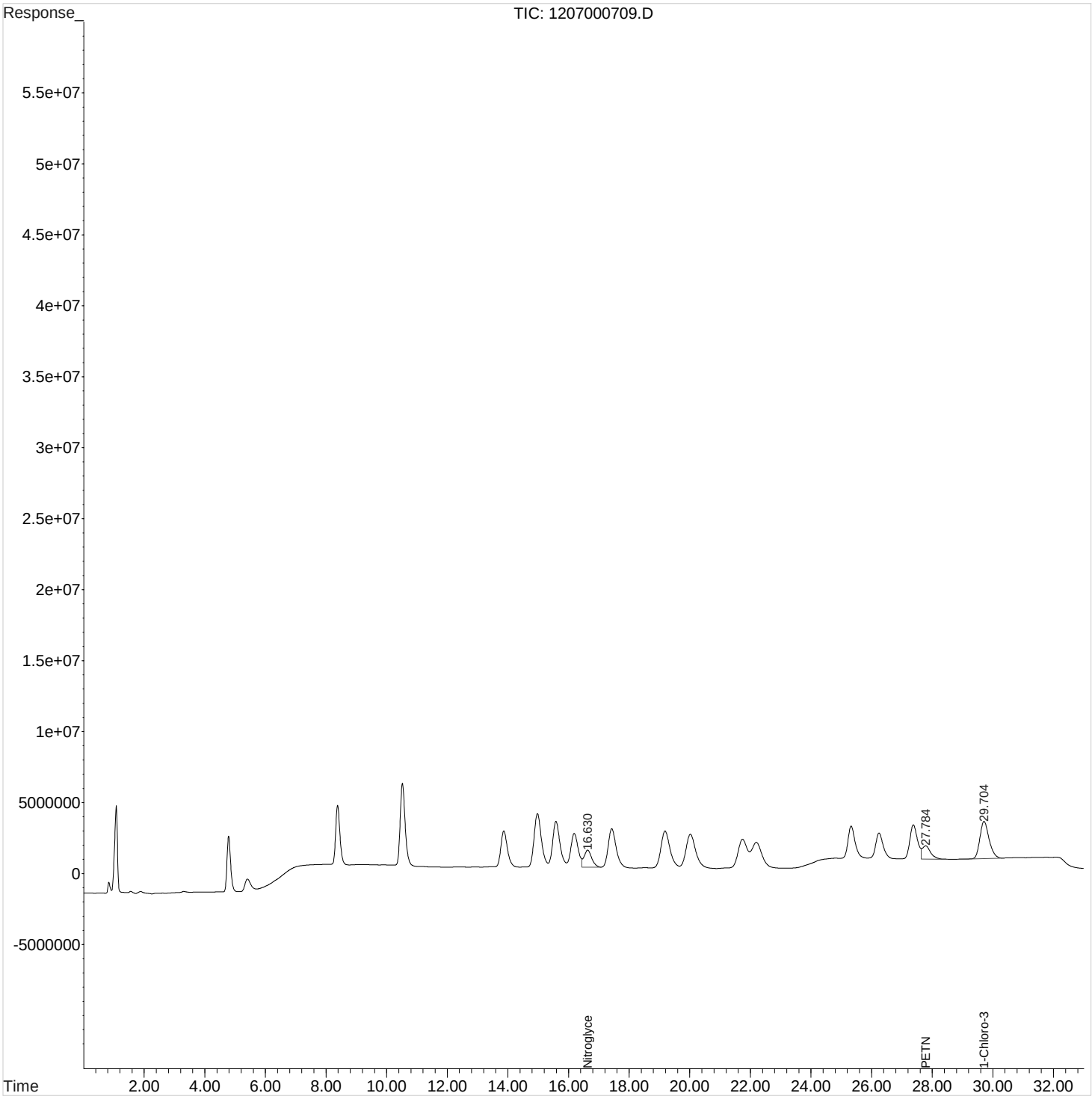
Quantitation Report (QT Reviewed)

1st (b)(6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:33:37 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(b)(6)

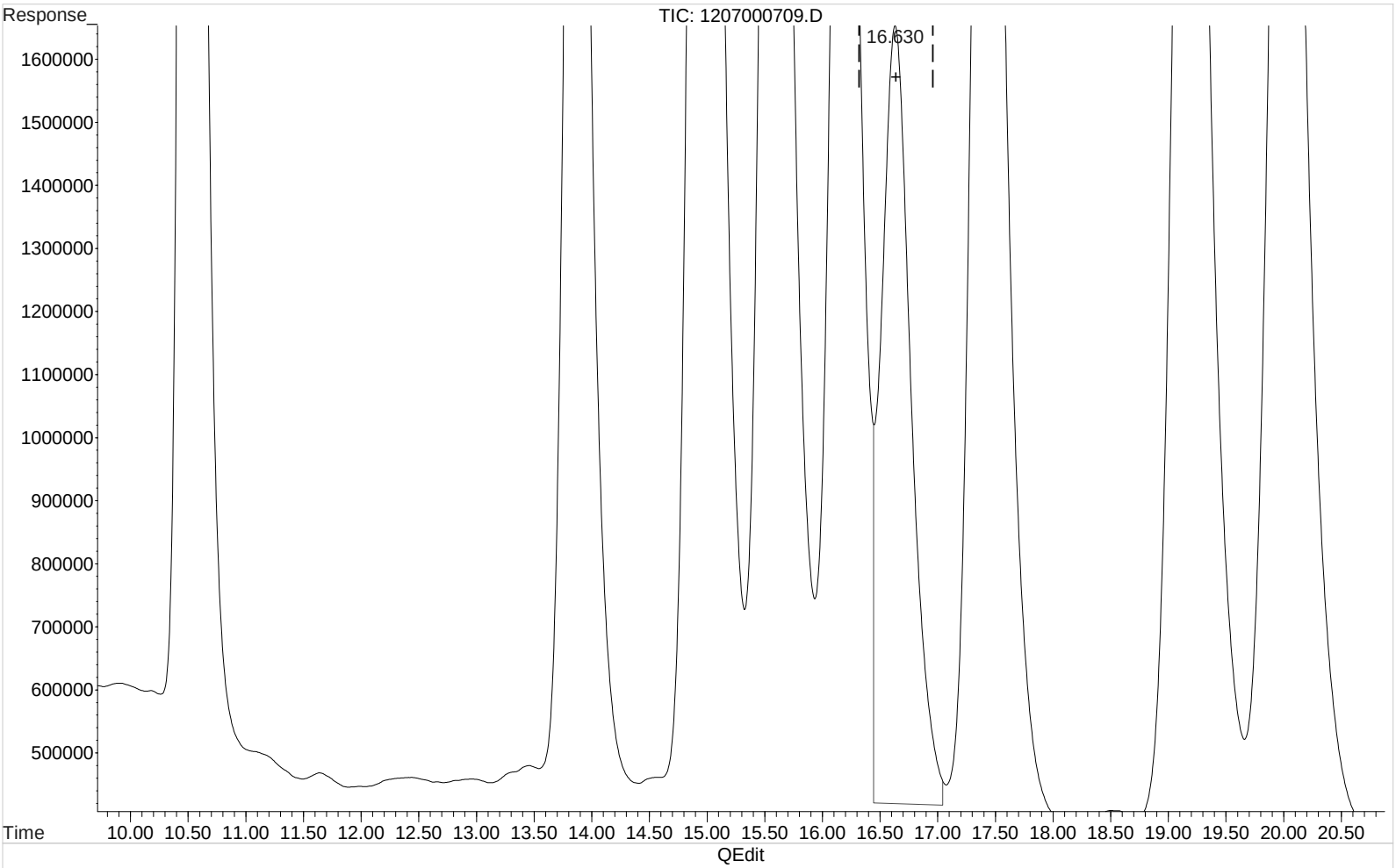
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:32:30 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.630min 1012.917 ug/L

response 22299324

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

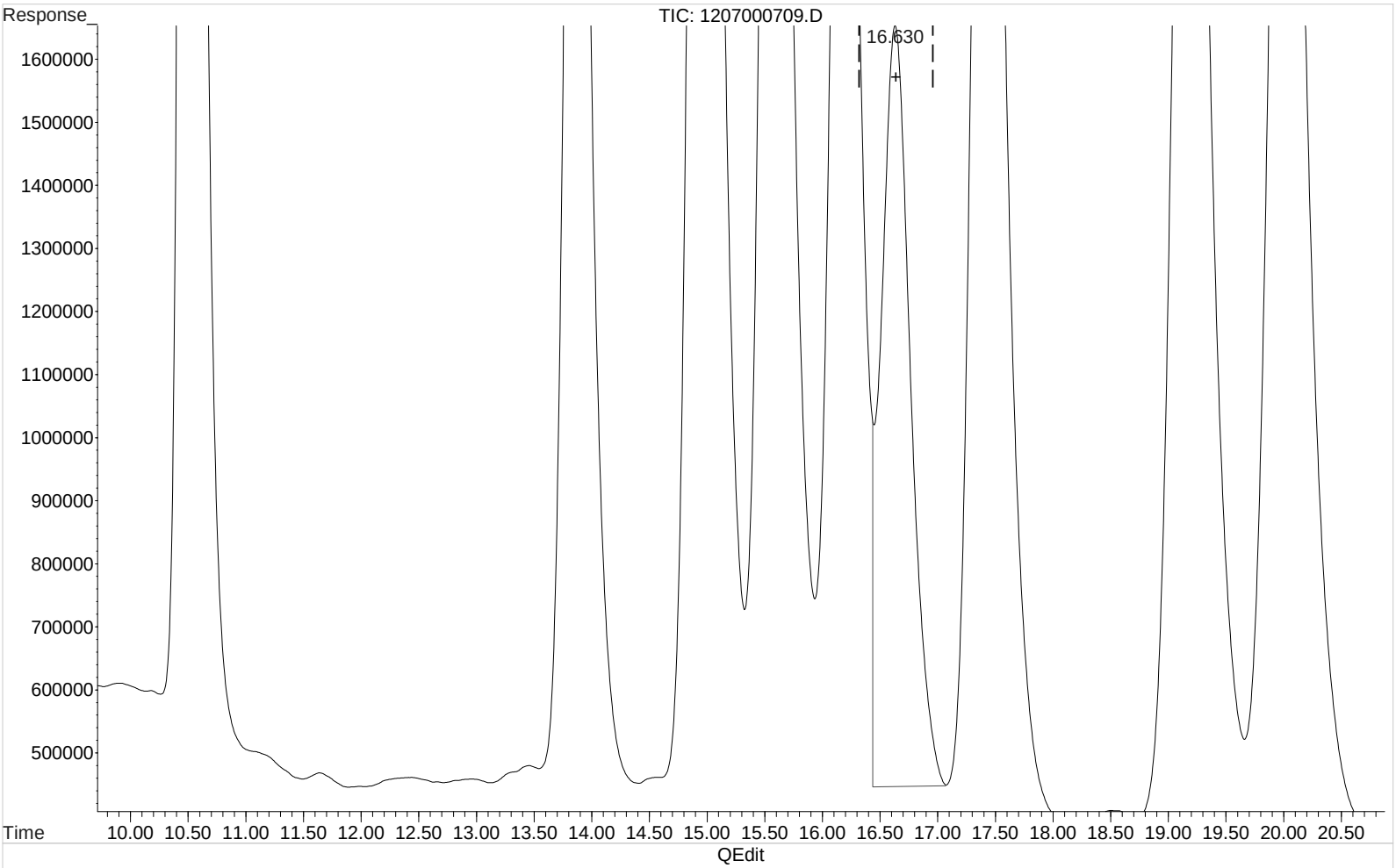
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:32:30 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.630min 977.602 ug/L m

response 21521854

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

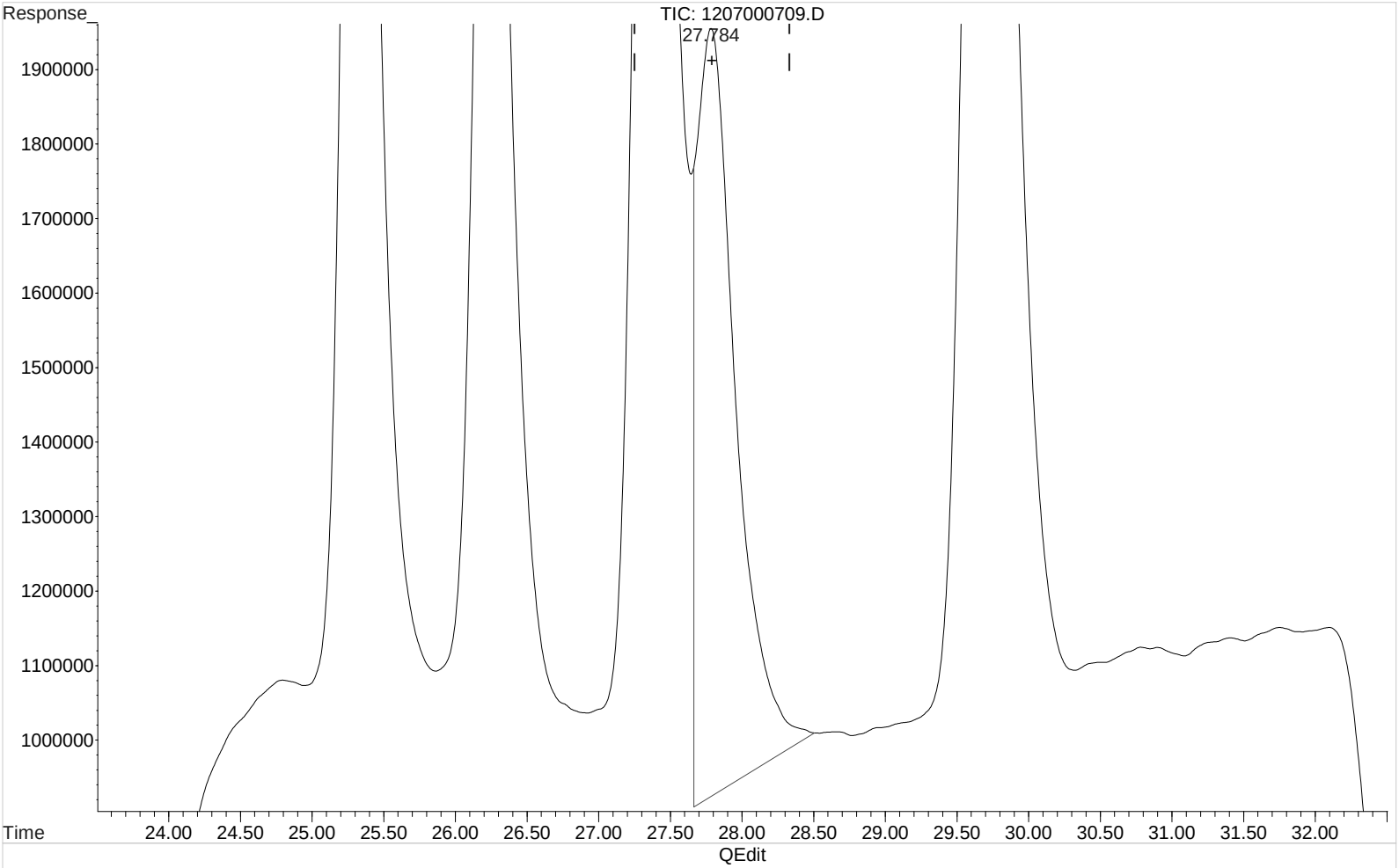
Quantitation Report (Qedit)

(b) (6)
1st [redacted] 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:32:30 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.784min 975.465 ug/L

response 19498853

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

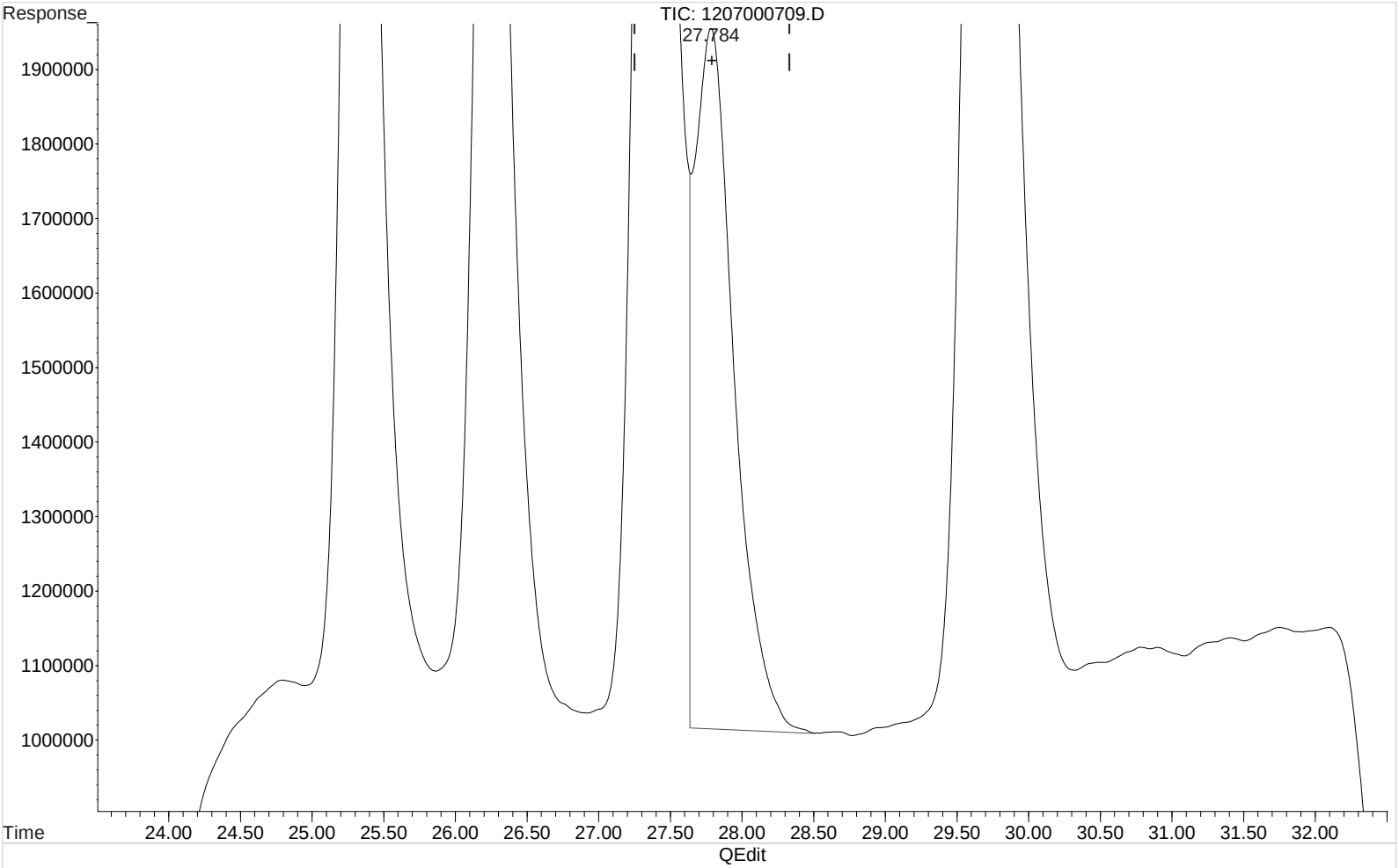
Quantitation Report (Qedit)

1st (b) (6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:32:30 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.784min 902.302 ug/L m

response 18036372

Manual Integration:

After

BLC

12/08/16

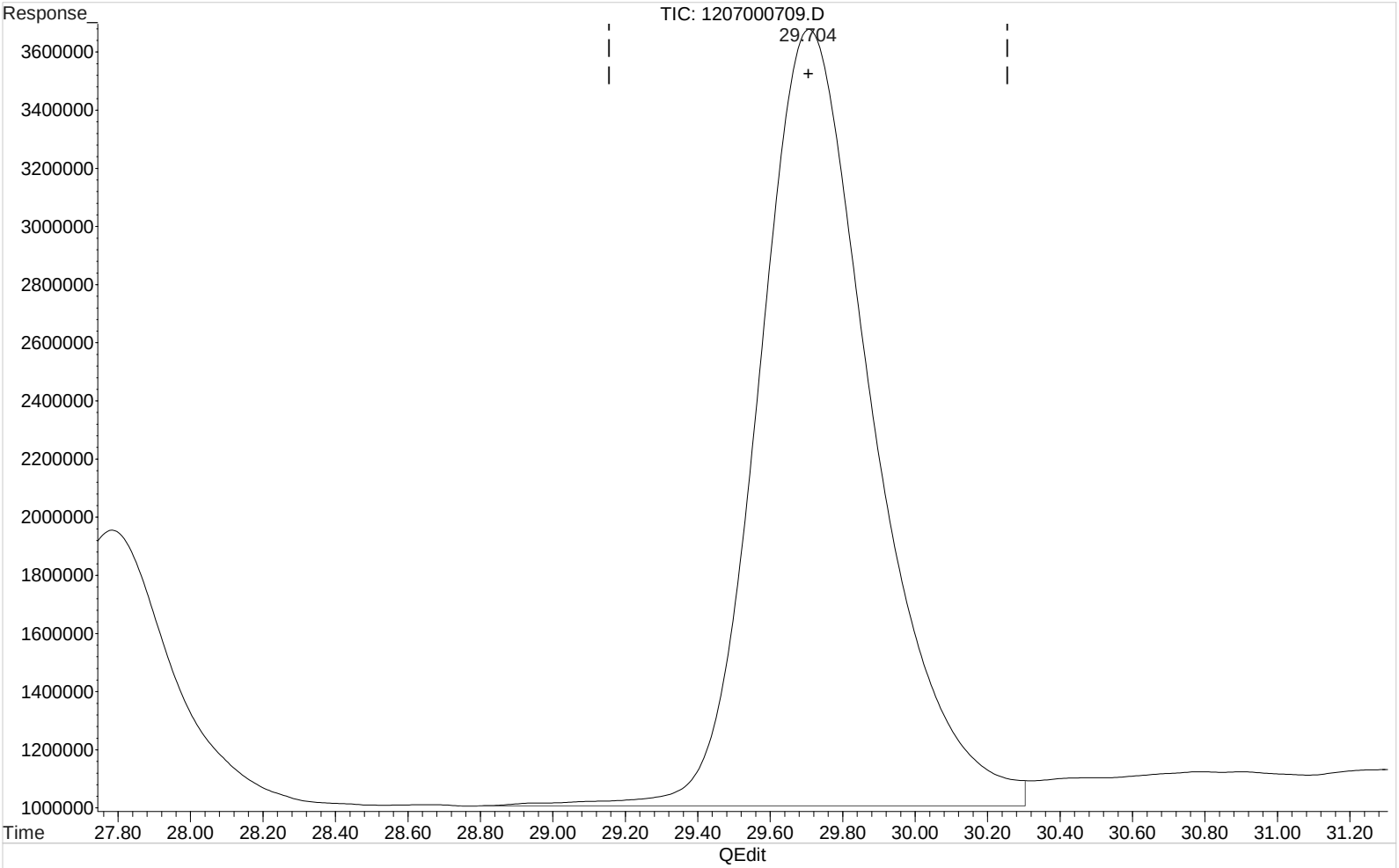
(+) = Expected Retention Time

(b)(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:32:30 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.704min 995.581 ug/L

response 58729422

Manual Integration:

Before

12/08/16

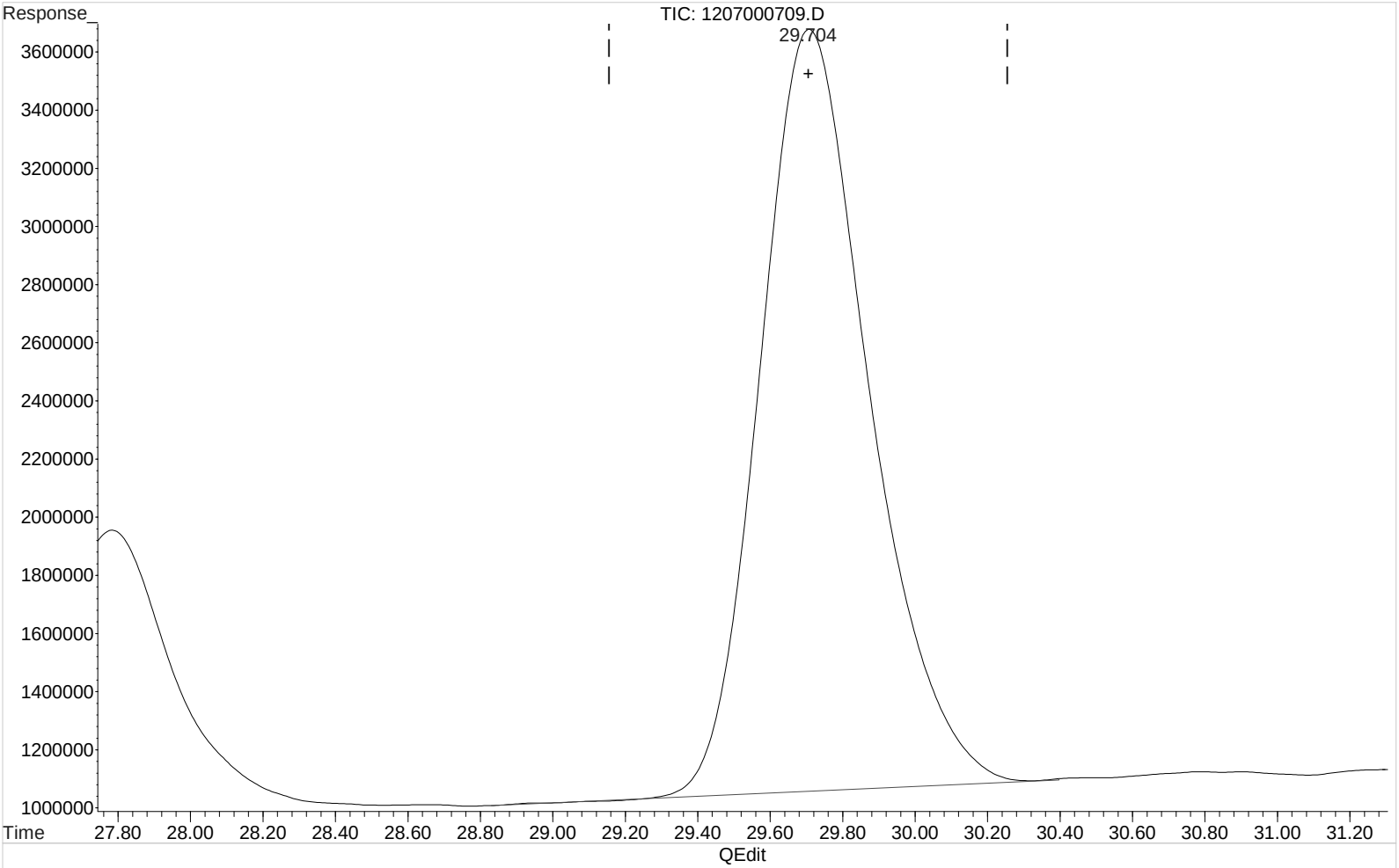
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:32:30 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

29.704min 932.538 ug/L m

response 55010487

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:49 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.700	112386573	1931.234	ug/L	m
Target Compounds						
1) T	Nitroglycerin	16.647	43206000	1971.406	ug/L	m
2) T	PETN	27.787	35607998	1816.855	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

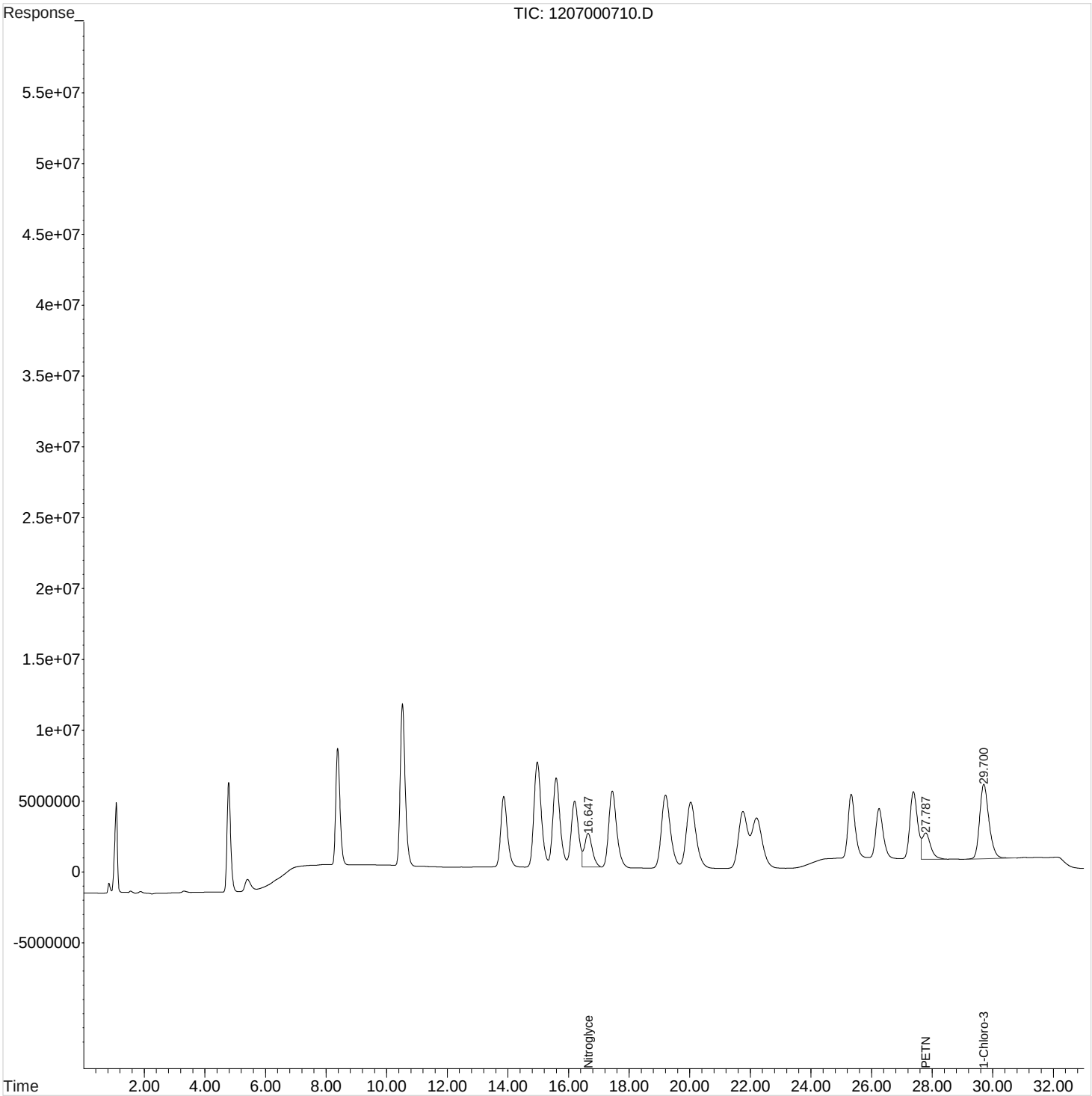
(b)(6)

1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:49 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

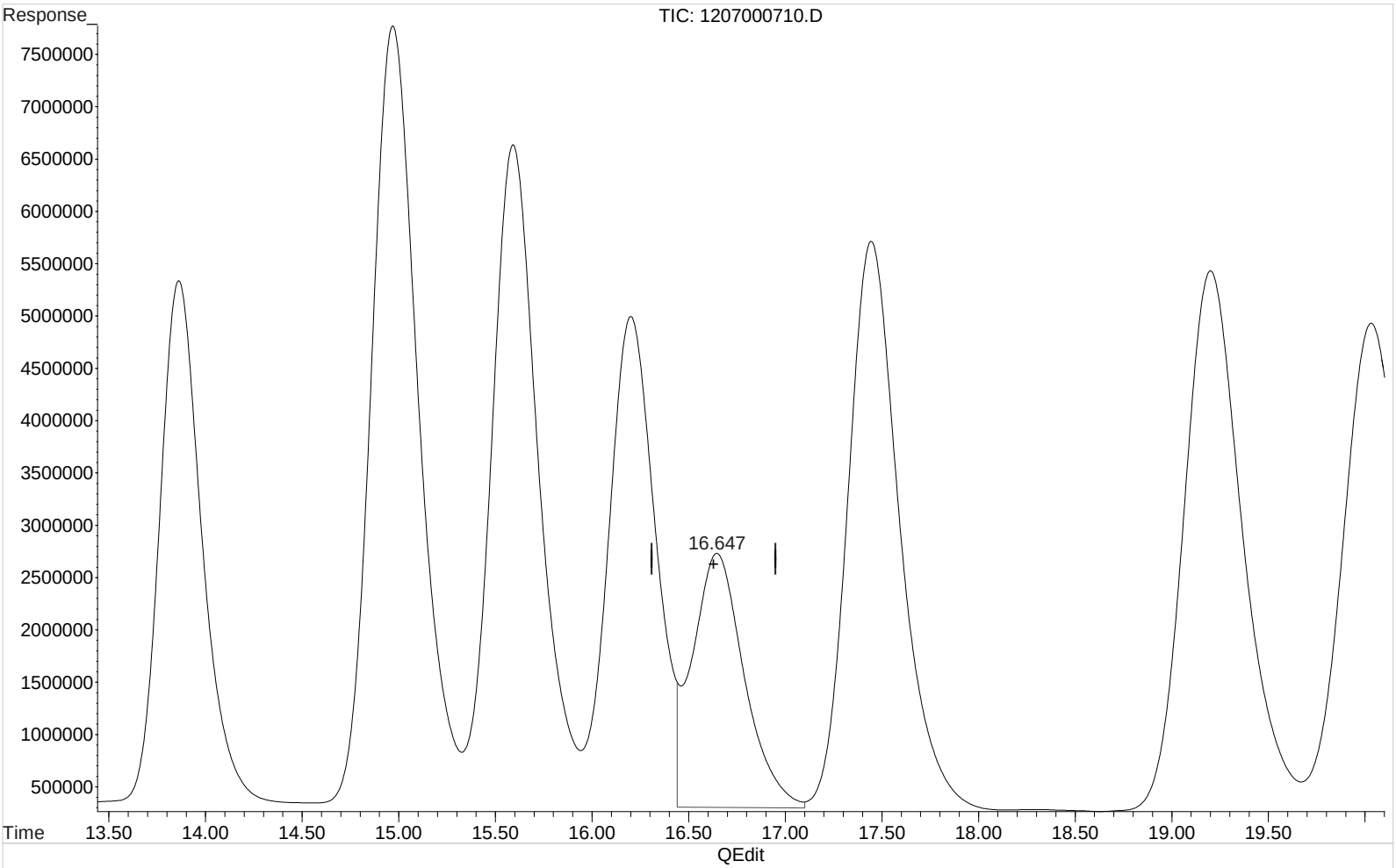


(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:03 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.647min 2072.566 ug/L

response 45423047

Manual Integration:

Before

12/08/16

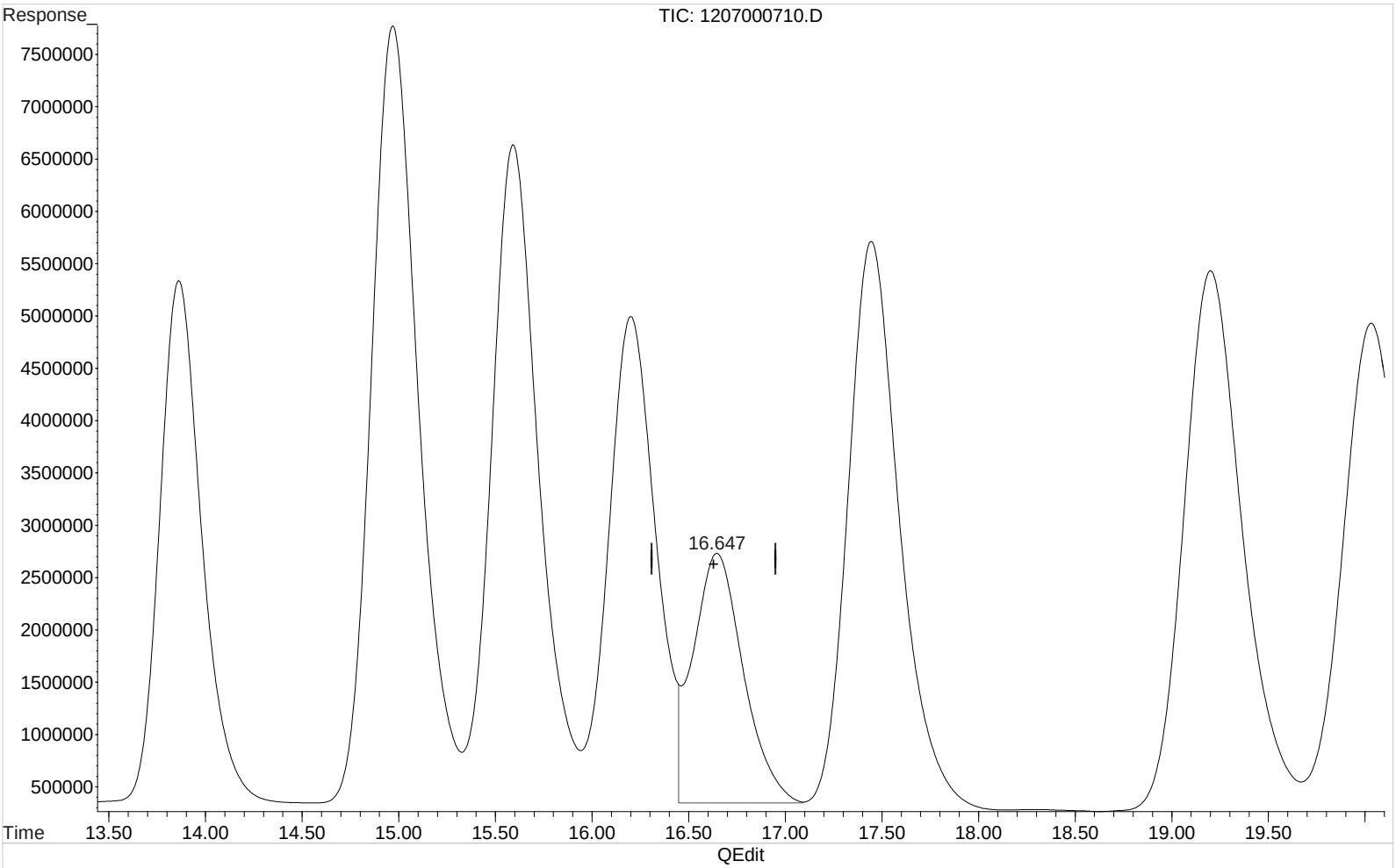
(+) = Expected Retention Time

1st (b)(6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:03 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.647min 1971.406 ug/L m

response 43206000

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

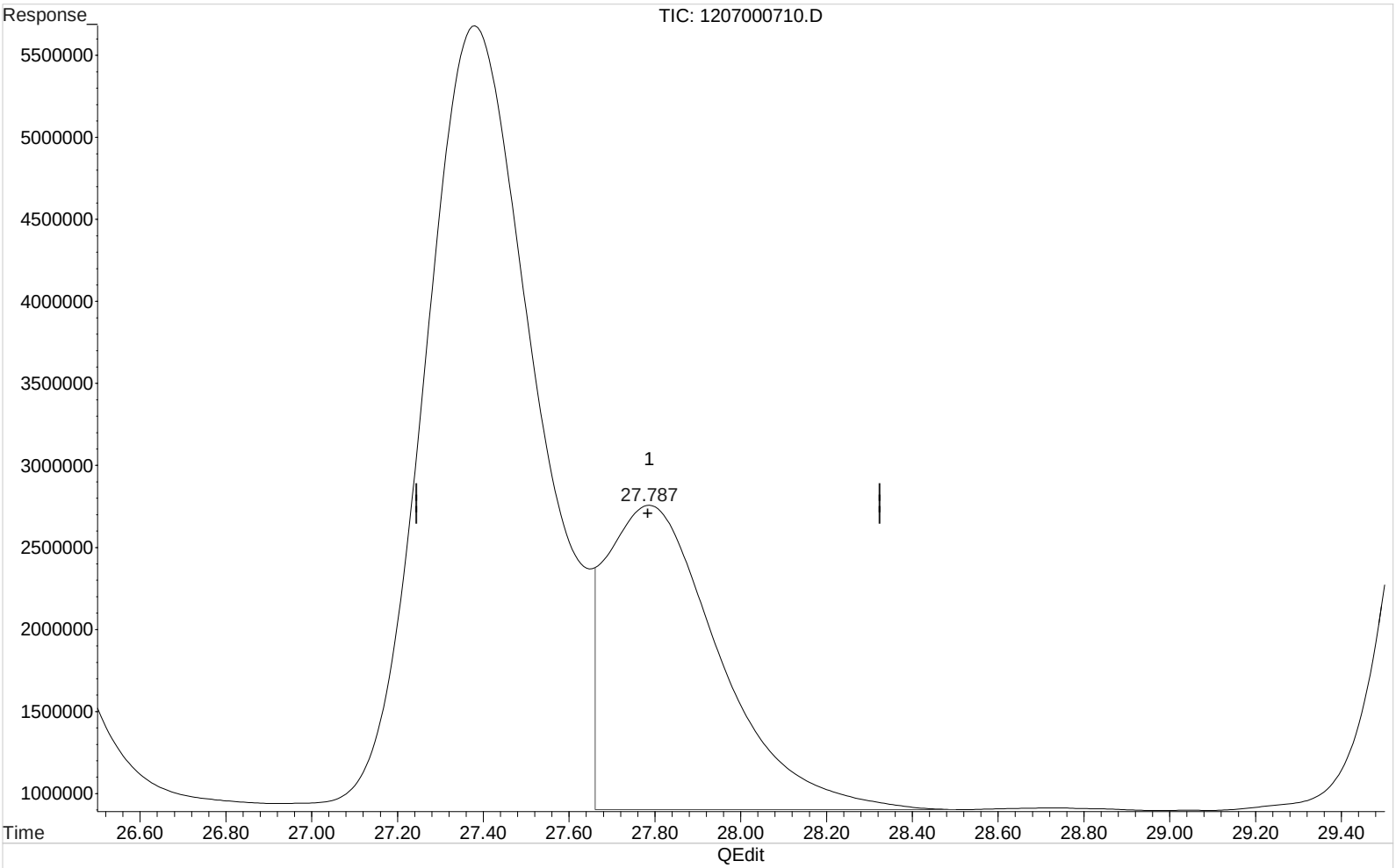
Quantitation Report (Qedit)

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:03 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.787min 1727.074 ug/L

response 33848411

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

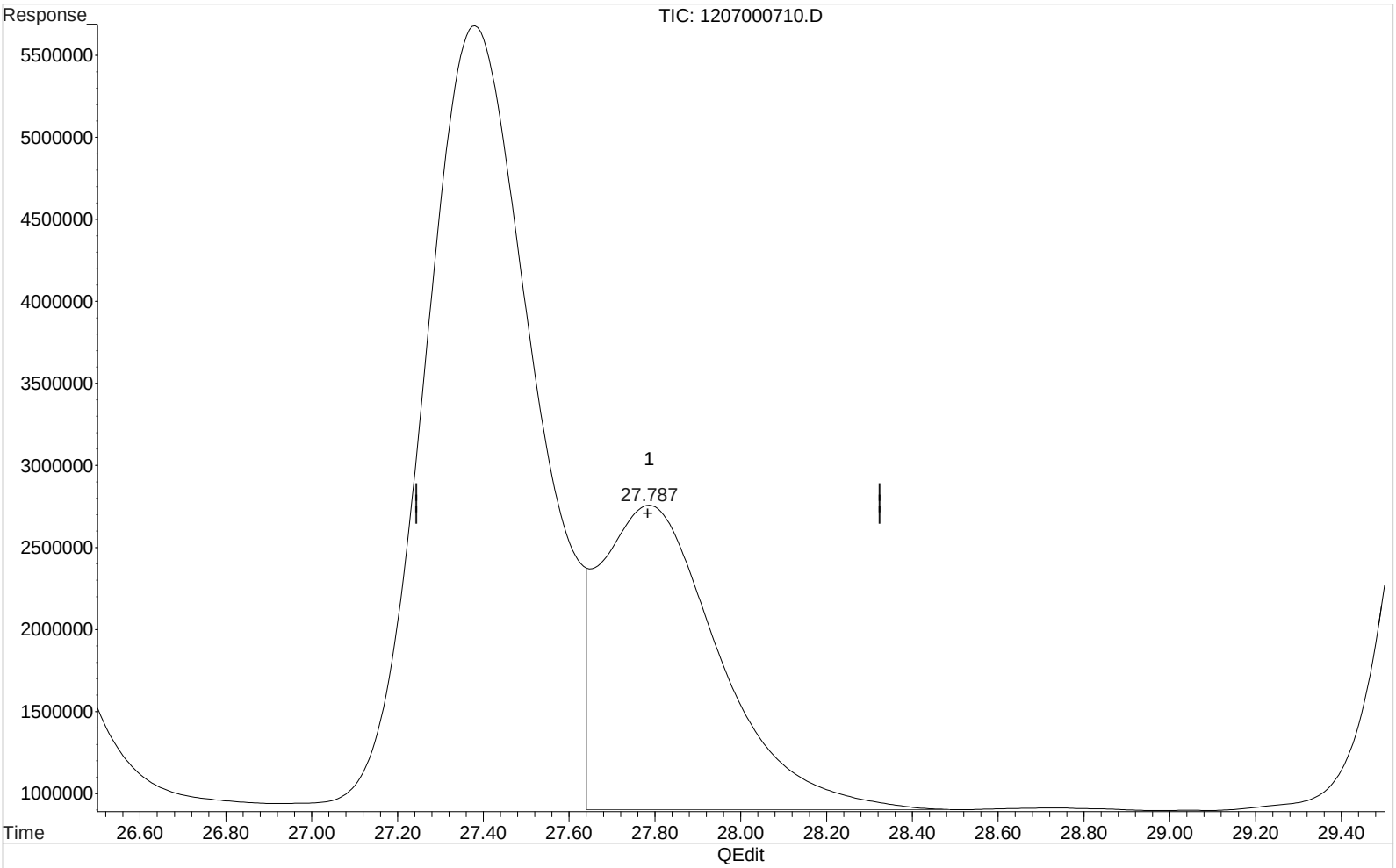
Quantitation Report (Qedit)

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:03 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.787min 1816.855 ug/L m

response 35607998

Manual Integration:

After

BLC

12/08/16

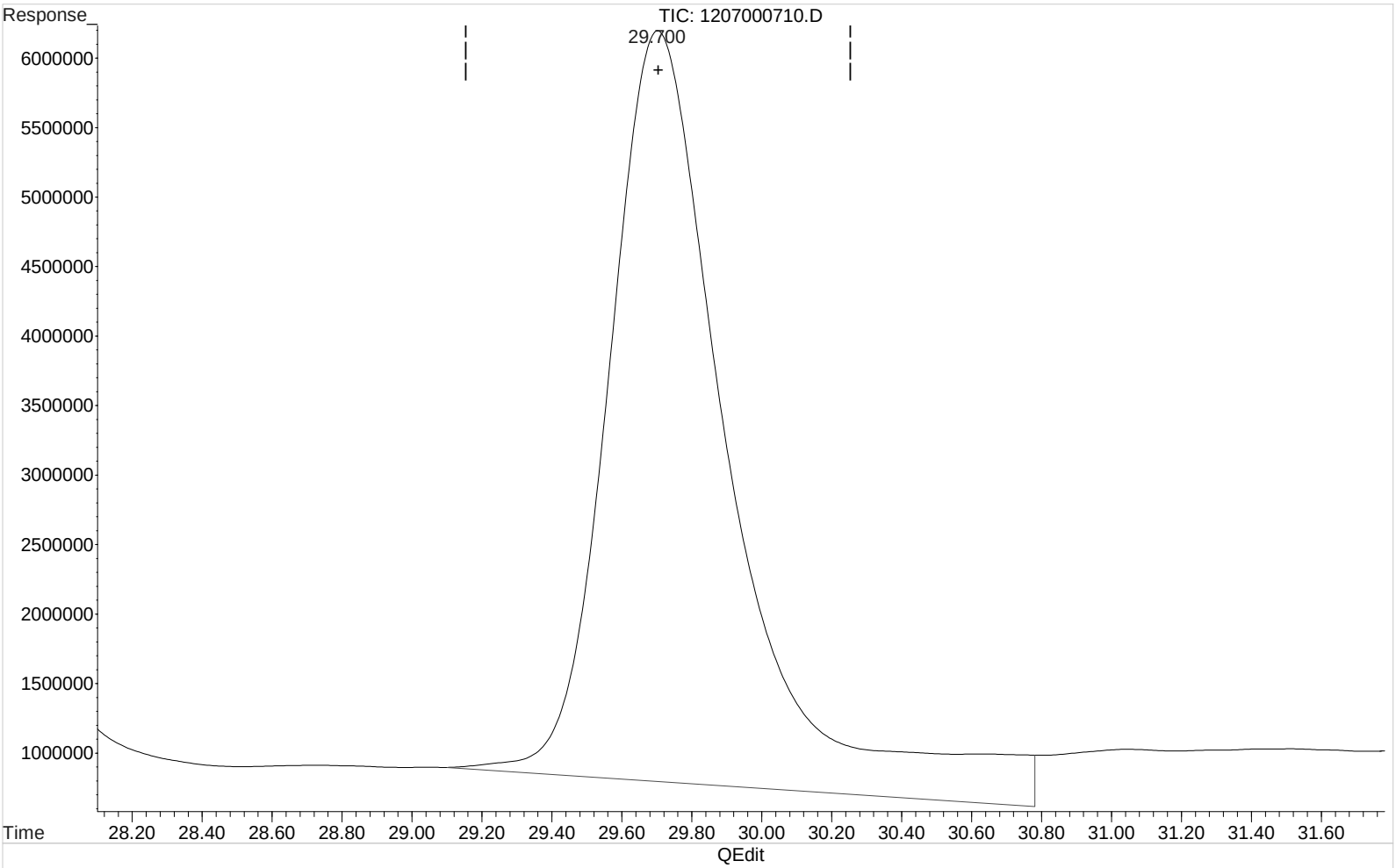
(+) = Expected Retention Time

(b)(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:03 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.700min 2259.280 ug/L

response 131476903

Manual Integration:

Before

12/08/16

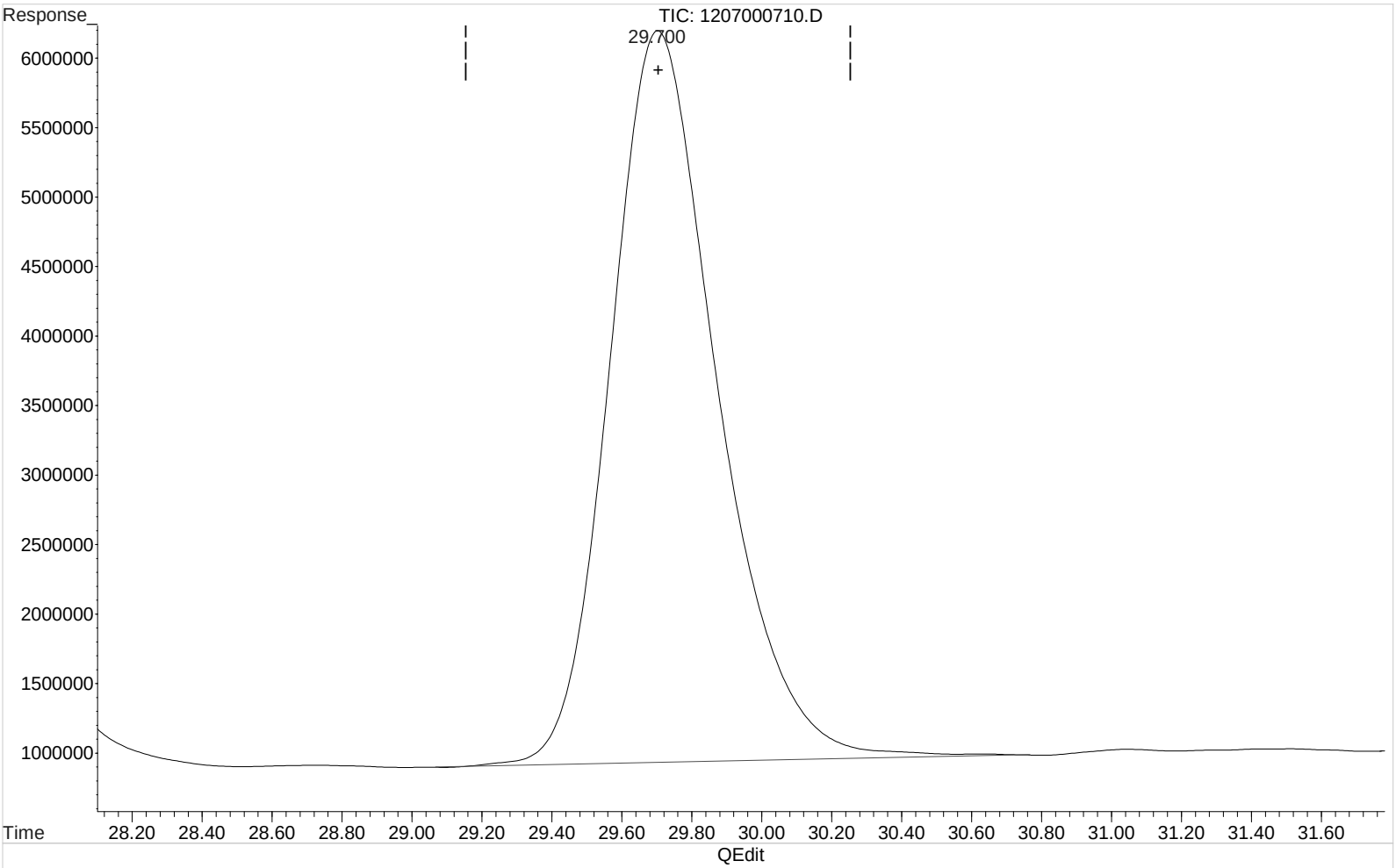
(+) = Expected Retention Time

(b)(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:03 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

29.700min 1931.234 ug/L m

response 112386573

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:08:50 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.688	288614109	4988.087	ug/L	m
Target Compounds						
1) T	Nitroglycerin	16.621	108352662	4955.731	ug/L	m
2) T	PETN	27.781	89947543	4660.595	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

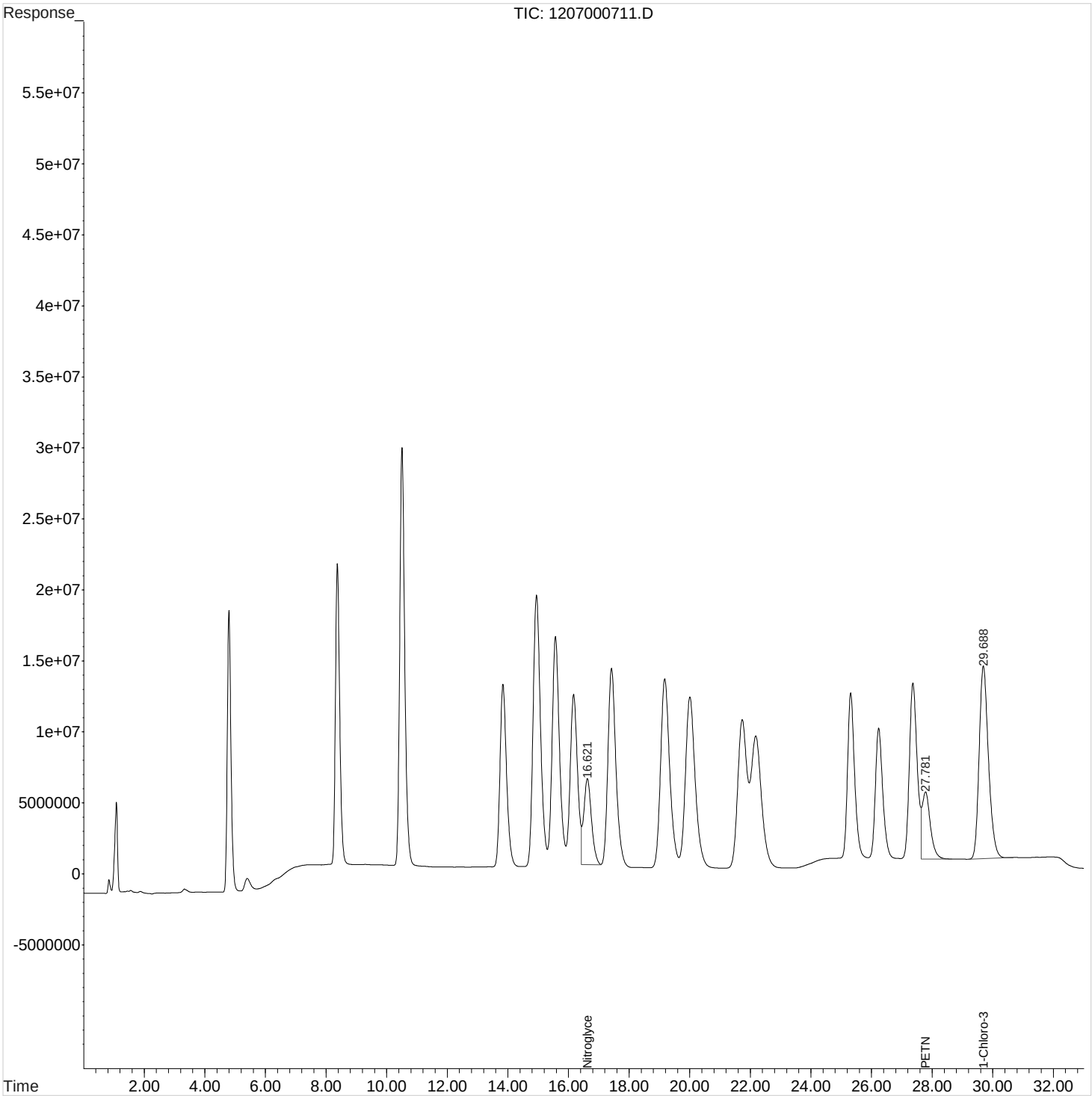
Quantitation Report (QT Reviewed)

(b)
1st (6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:08:50 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



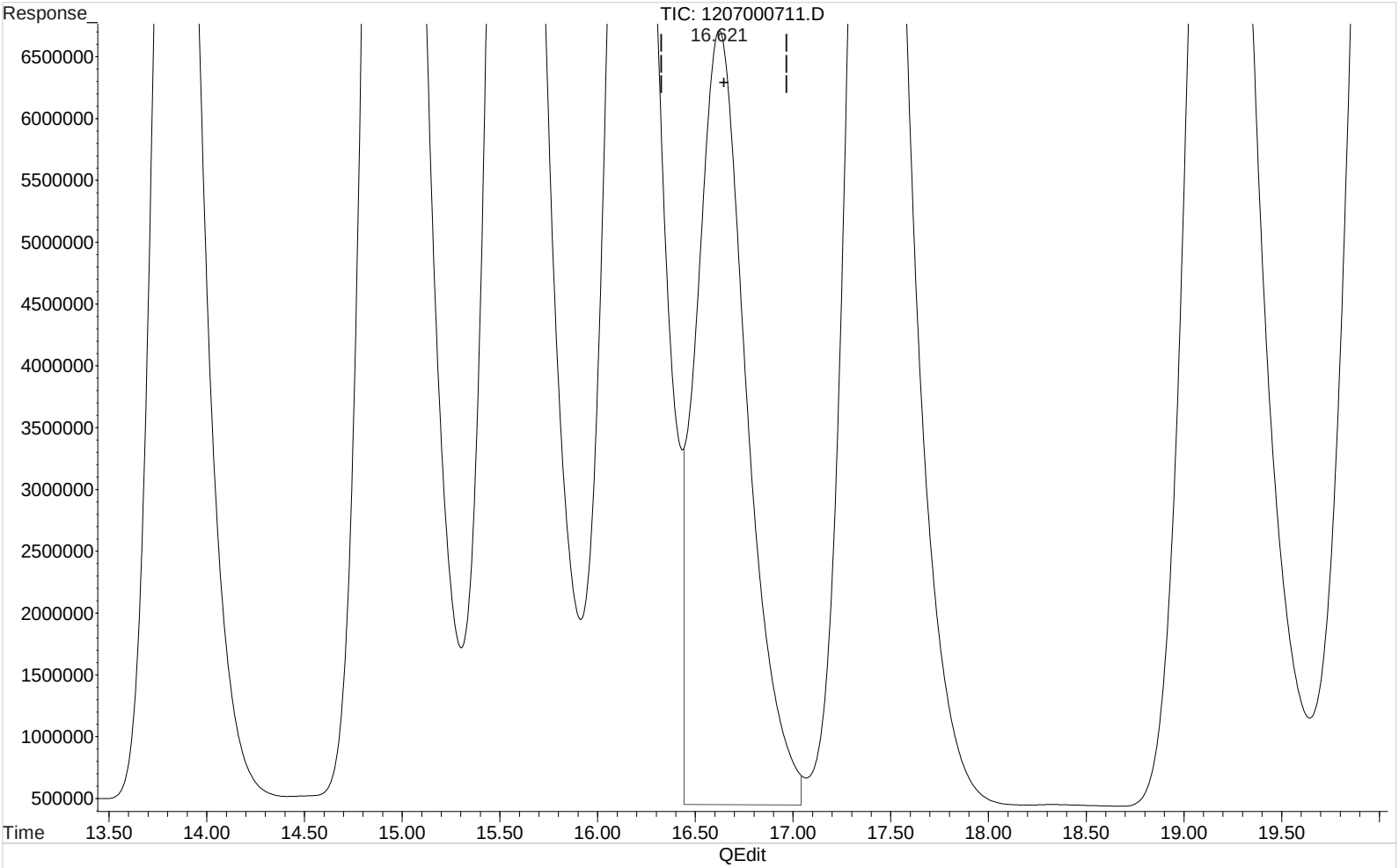
Quantitation Report (Qedit)

1st (b) (6) 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:35:15 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.621min 5145.490 ug/L

response 112501565

Manual Integration:

Before

12/08/16

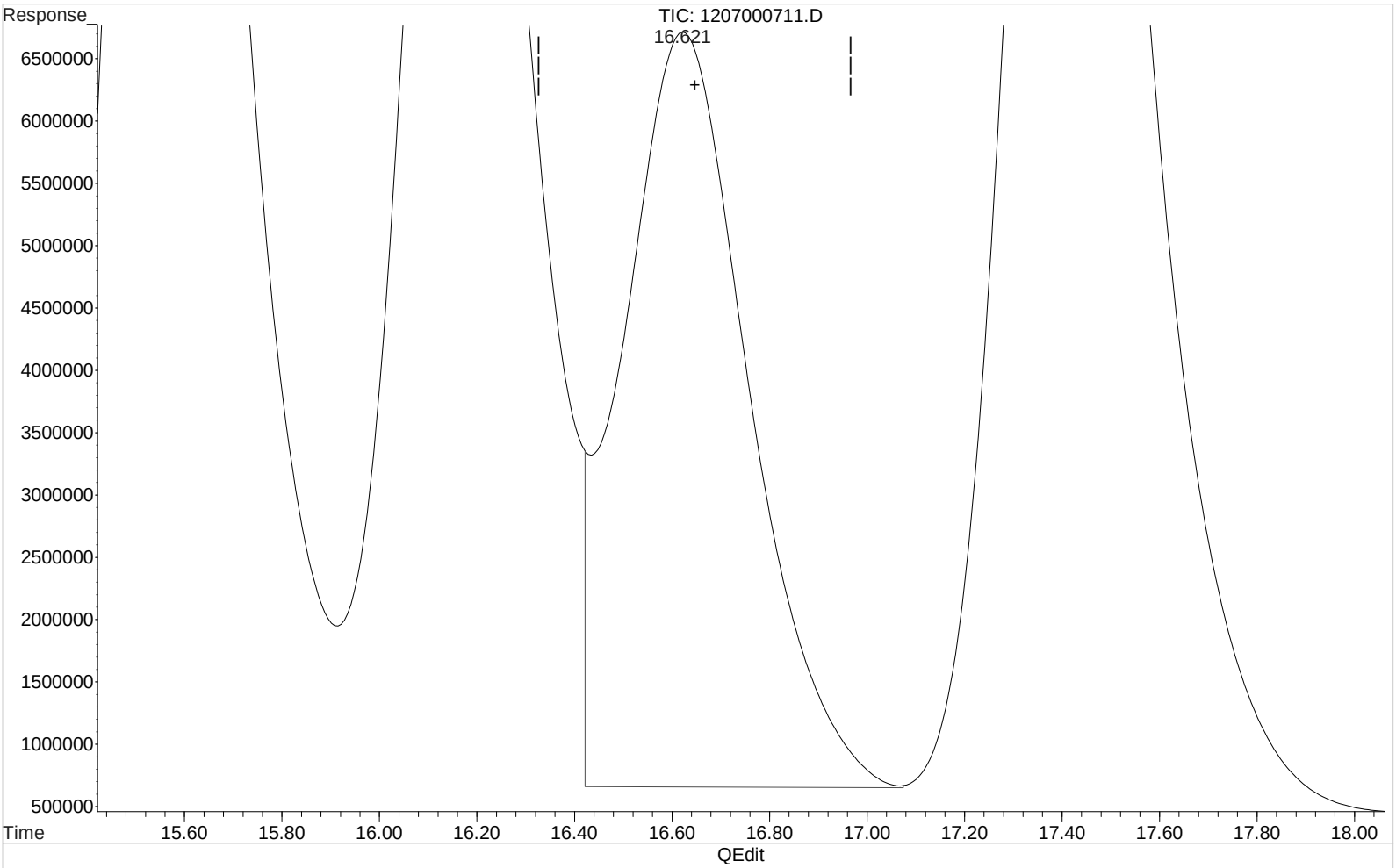
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:36:52 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.621min 4955.731 ug/L m

response 108352662

Manual Integration:

After

Baseline/Shoulder

12/08/16

(+) = Expected Retention Time

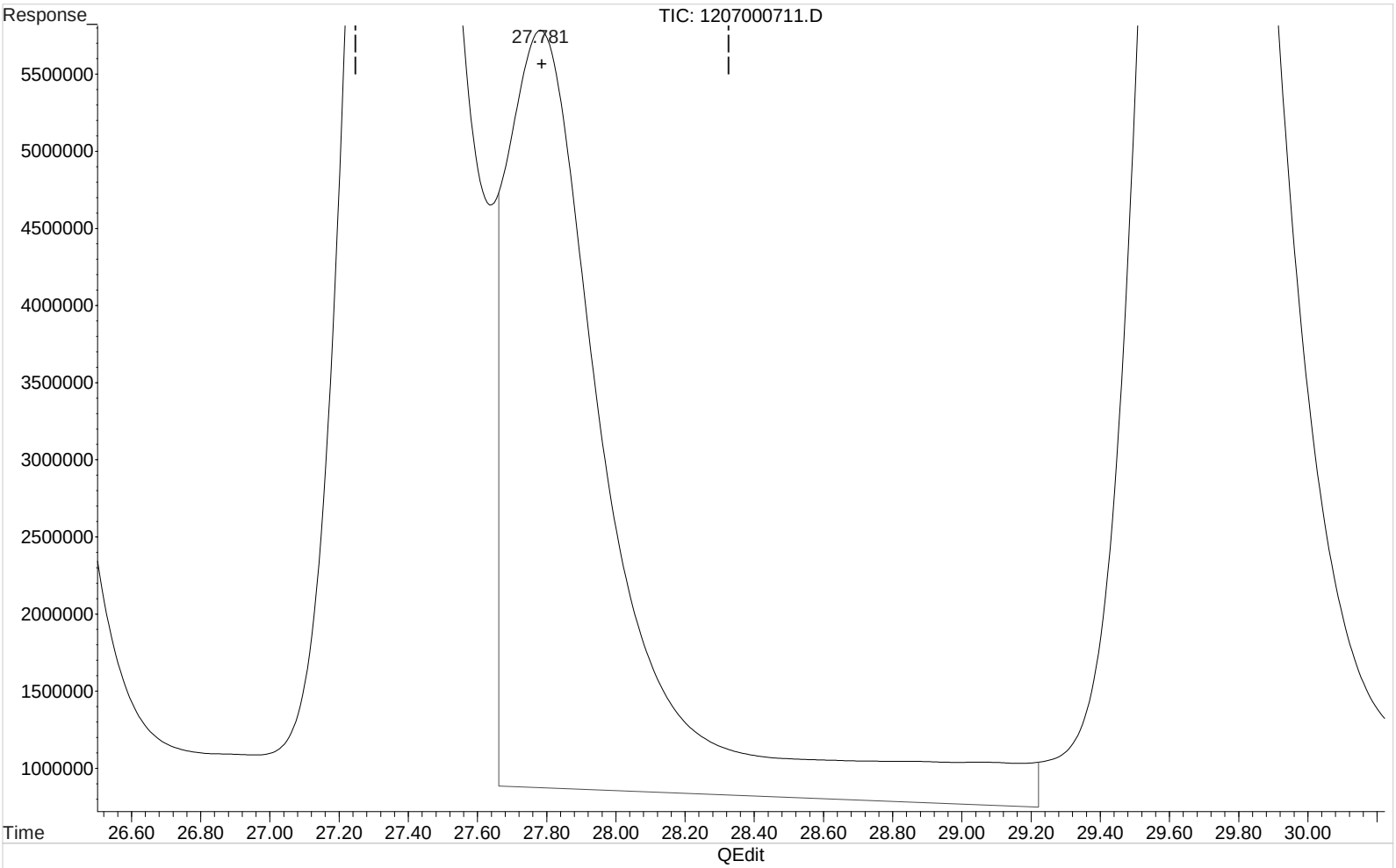
Quantitation Report (Qedit)

(b) (6)
1st 12/08/16
2n 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:35:15 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.781min 5440.778 ug/L

response 105004749

Manual Integration:

Before

12/08/16

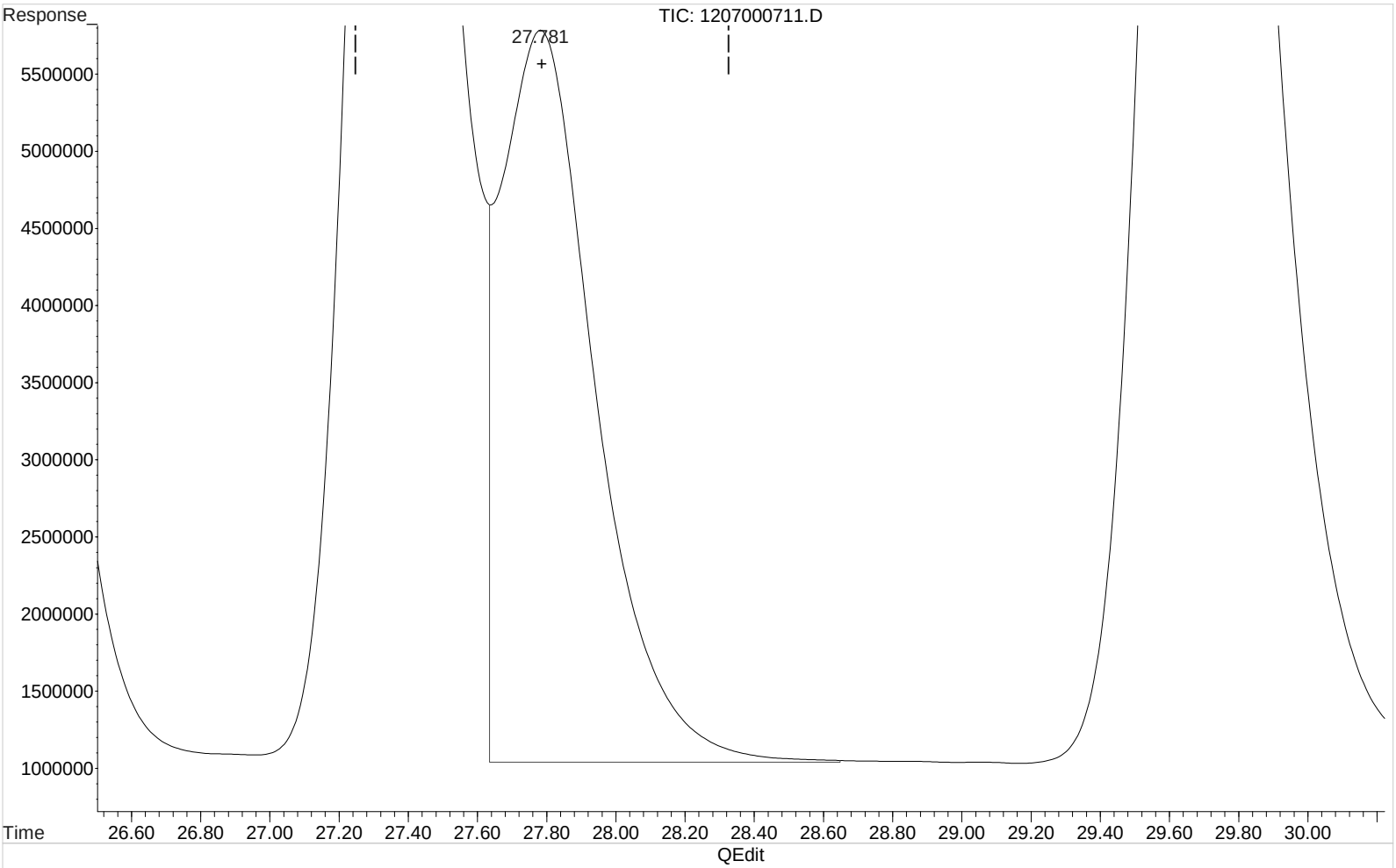
(+) = Expected Retention Time

(b) (6)
1st 12/08/16
2n 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:35:15 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.781min 4660.595 ug/L m

response 89947543

Manual Integration:

After

BLC

12/08/16

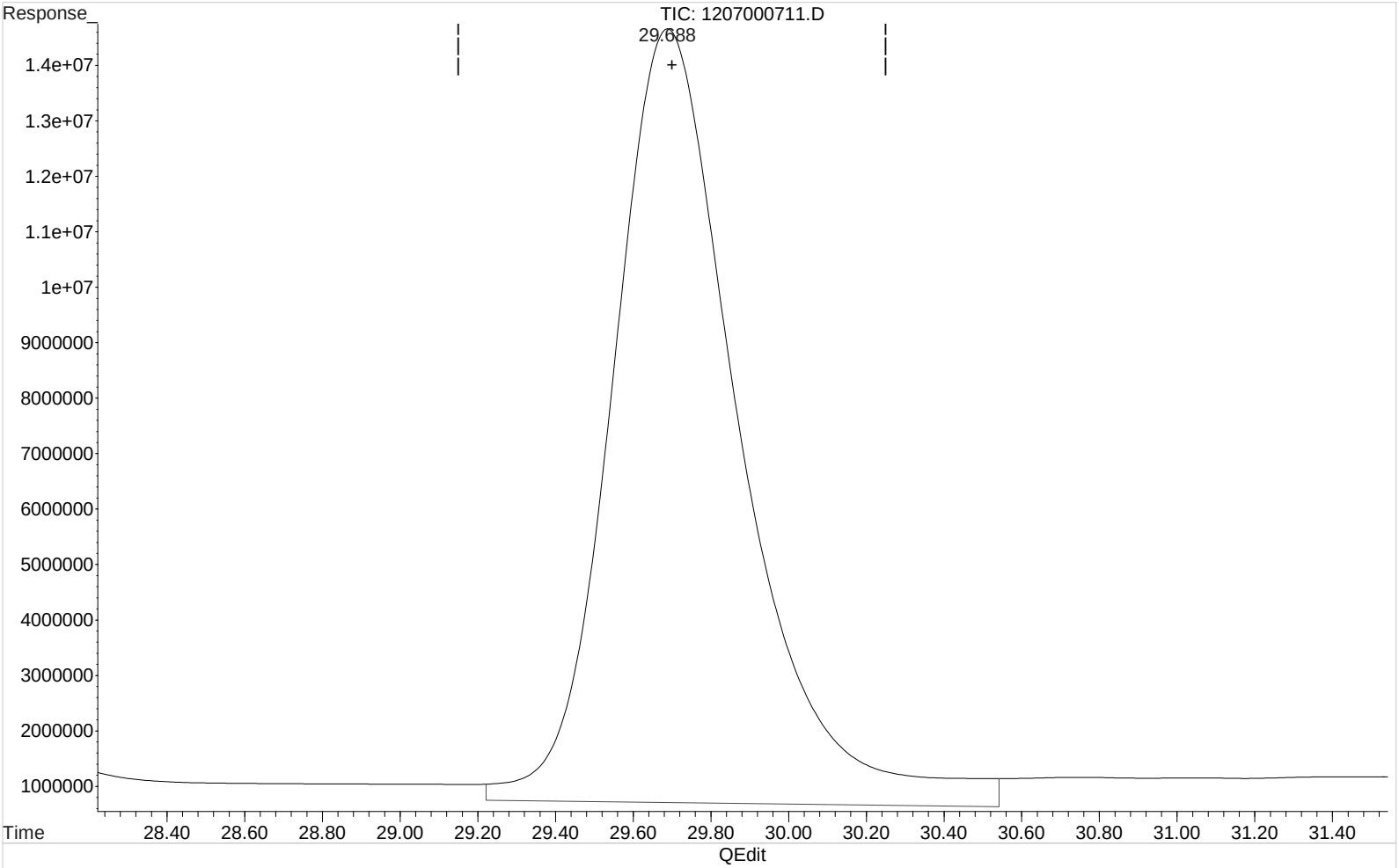
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:35:15 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.688min 5541.212 ug/L

response 320618313

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

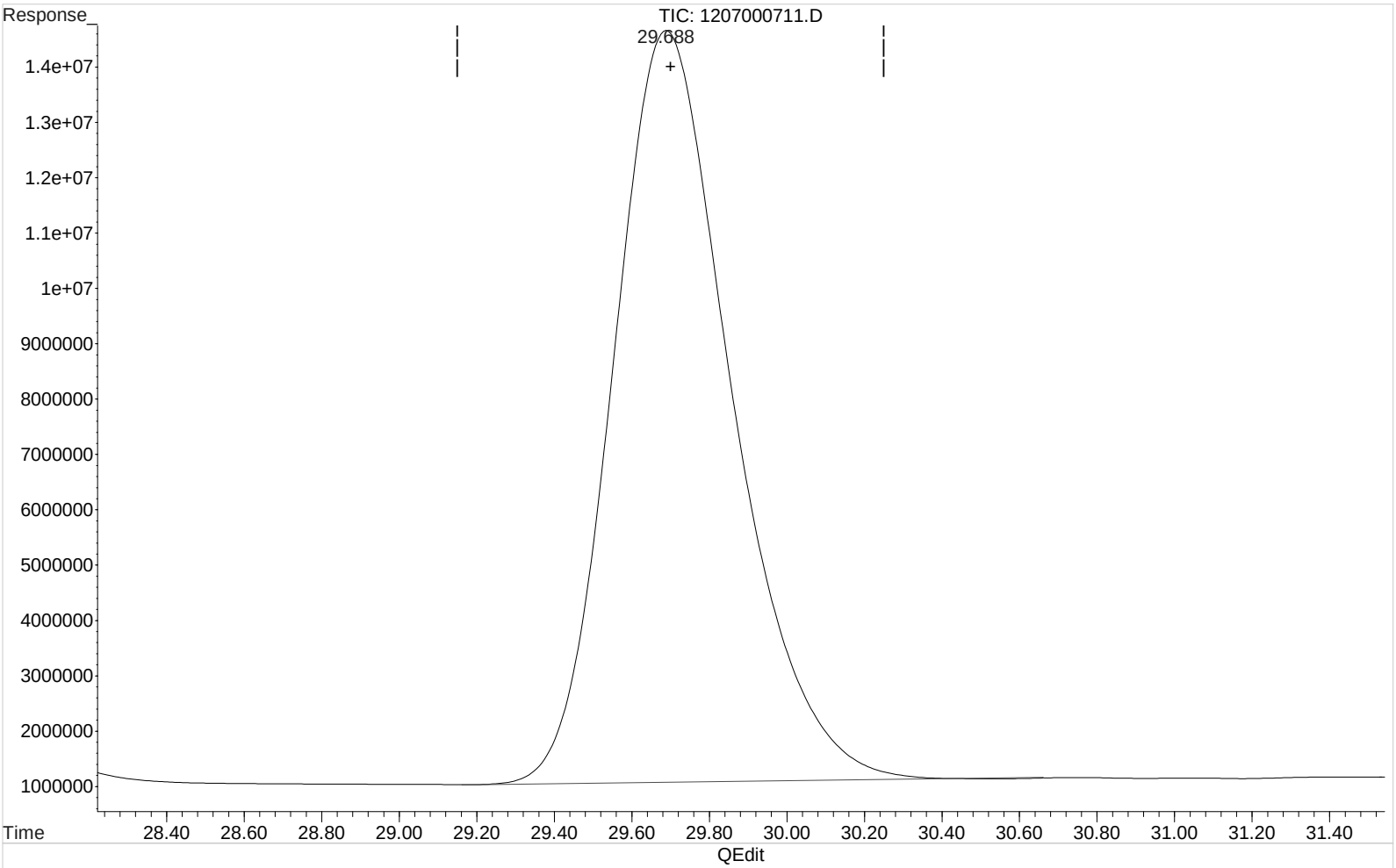
Quantitation Report (Qedit)

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:35:15 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.688min 4988.087 ug/L m

response 288614109

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000712.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:09:08 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:37:03 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
3) S	1-Chloro-3-Nitrobenzene	29.704	495774702	8571.338	ug/L
Target Compounds					
1) T	Nitroglycerin	16.638	204600197	9302.543	ug/L m
2) T	PETN	27.791	173278128	9066.254	ug/L m

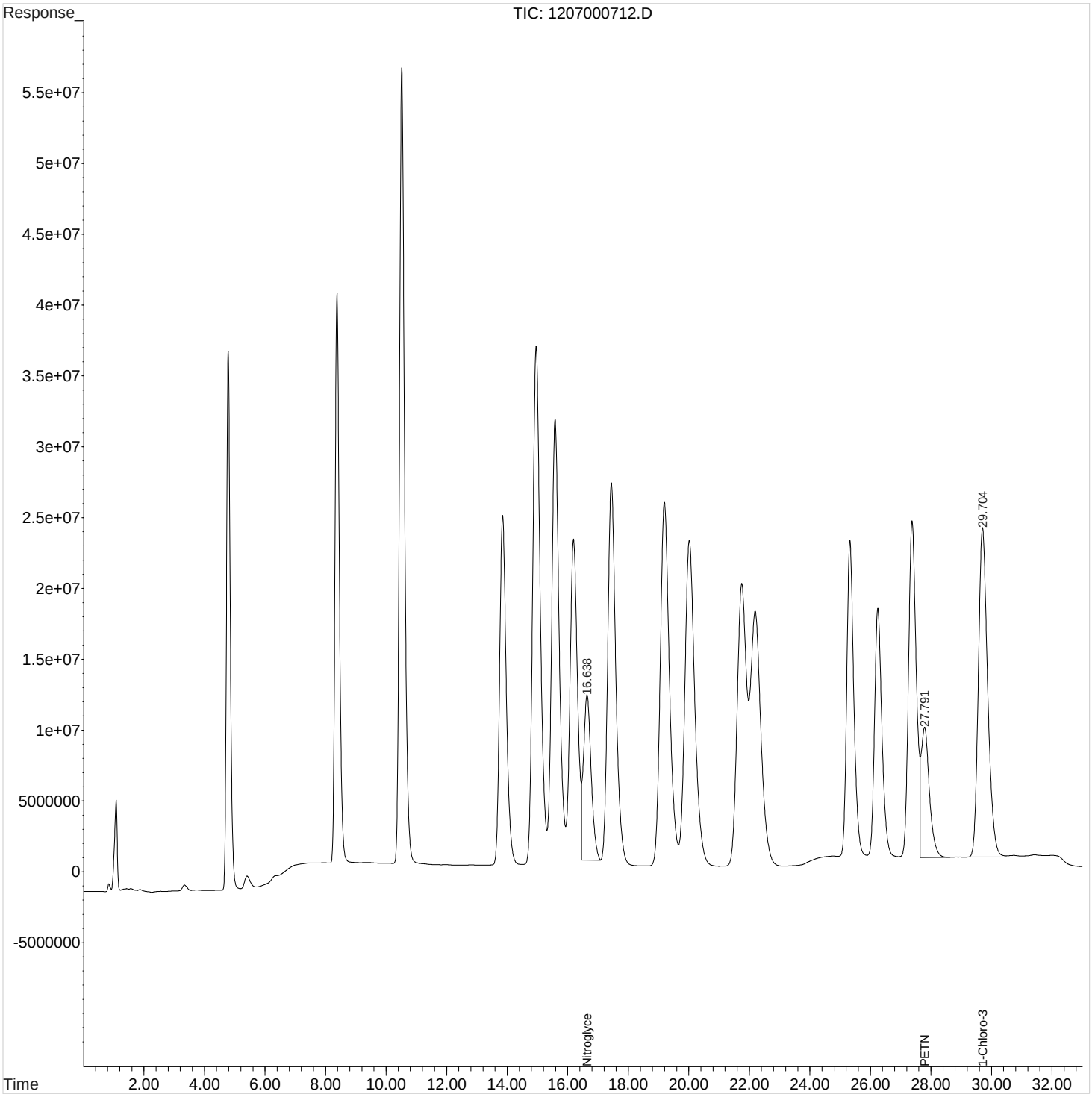
(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)
1st 2/08/16
2n 2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000712.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:09:08 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:37:03 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

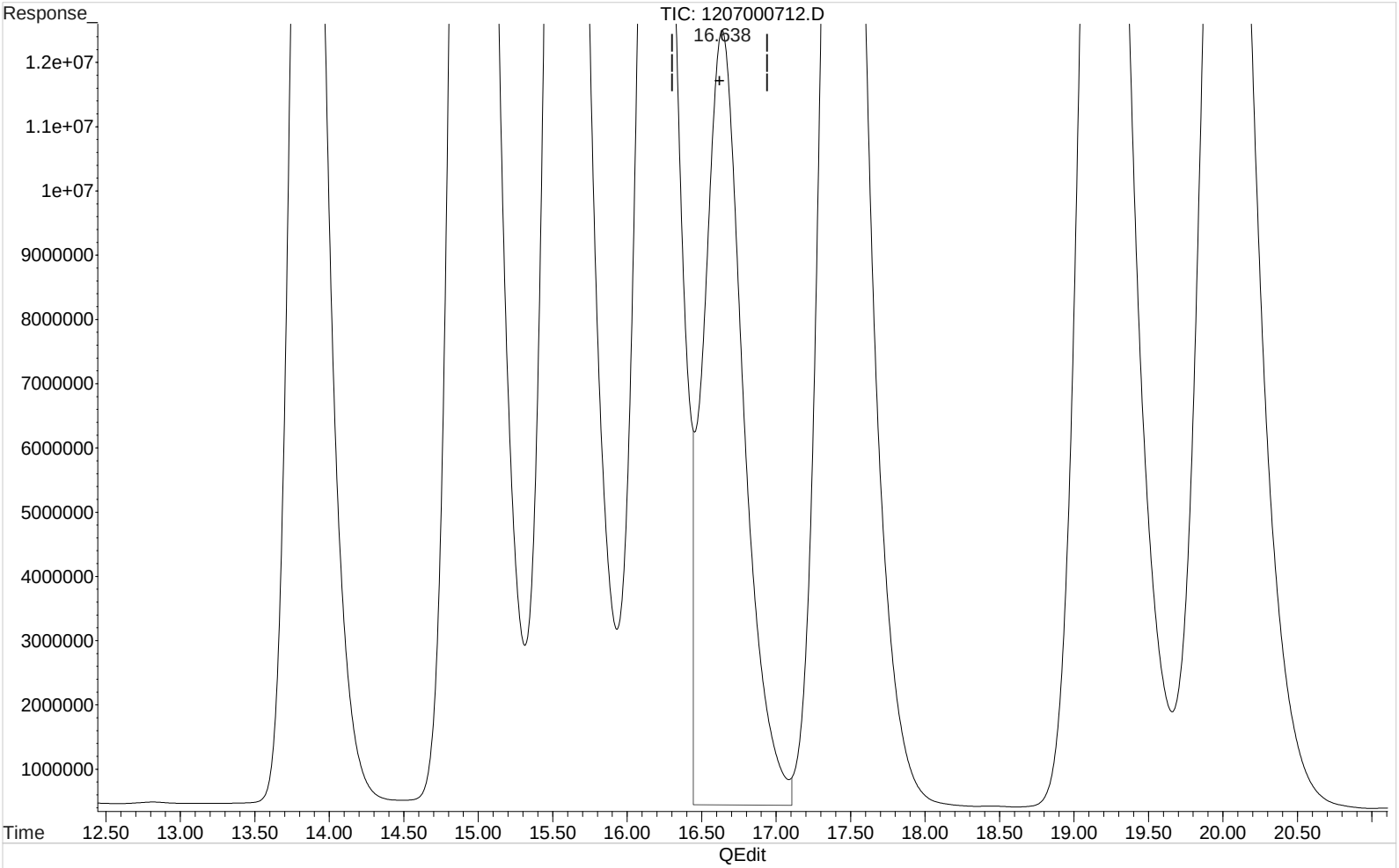


(b)(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000712.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:37:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:37:03 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.638min 10174.148 ug/L

response 223770282

Manual Integration:

Before

12/08/16

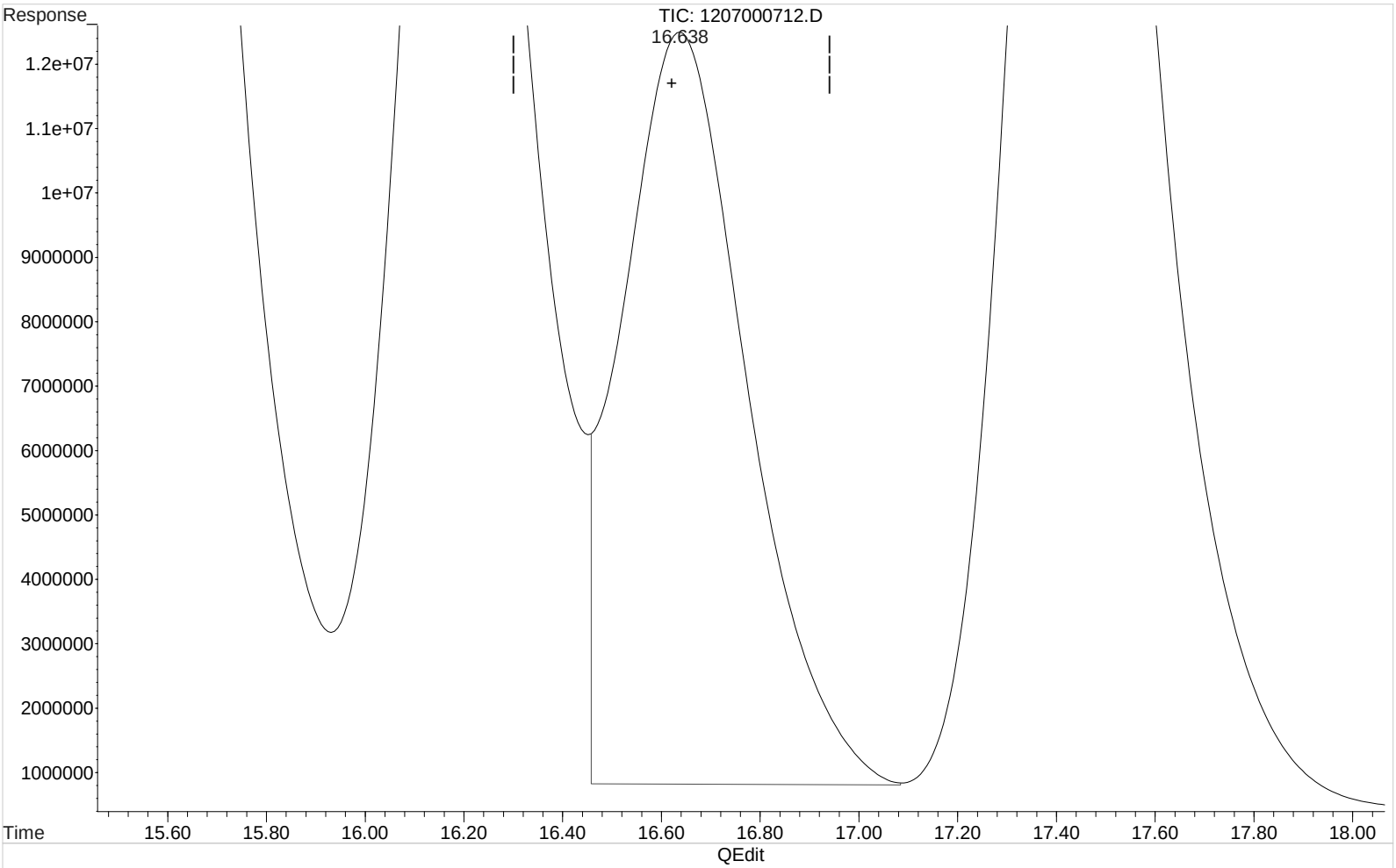
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000712.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:38:00 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:37:03 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.638min 9302.543 ug/L m

response 204600197

Manual Integration:

After

Baseline/Shoulder

12/08/16

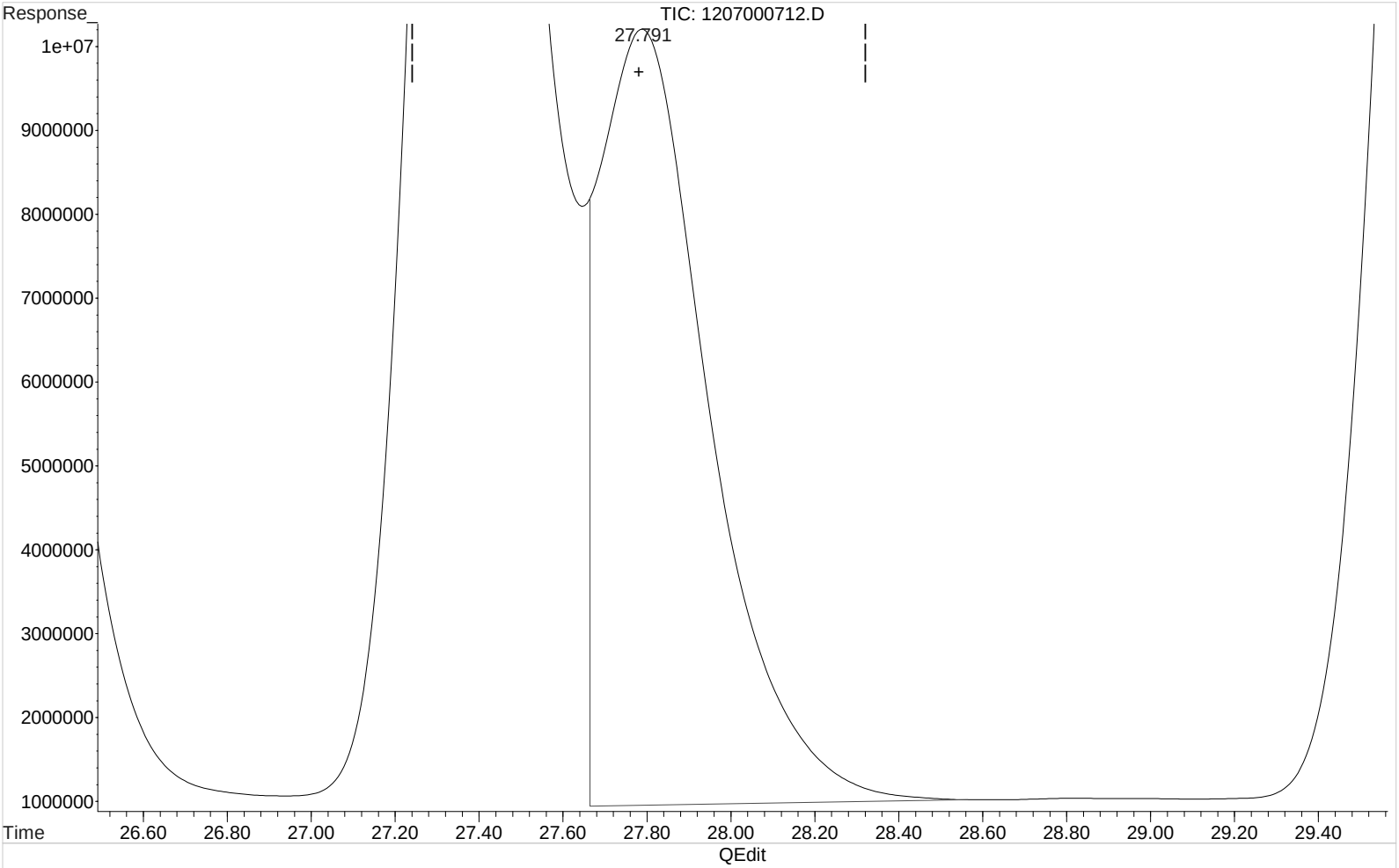
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000712.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:37:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:37:03 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.791min 8680.900 ug/L

response 165913087

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b)(6)

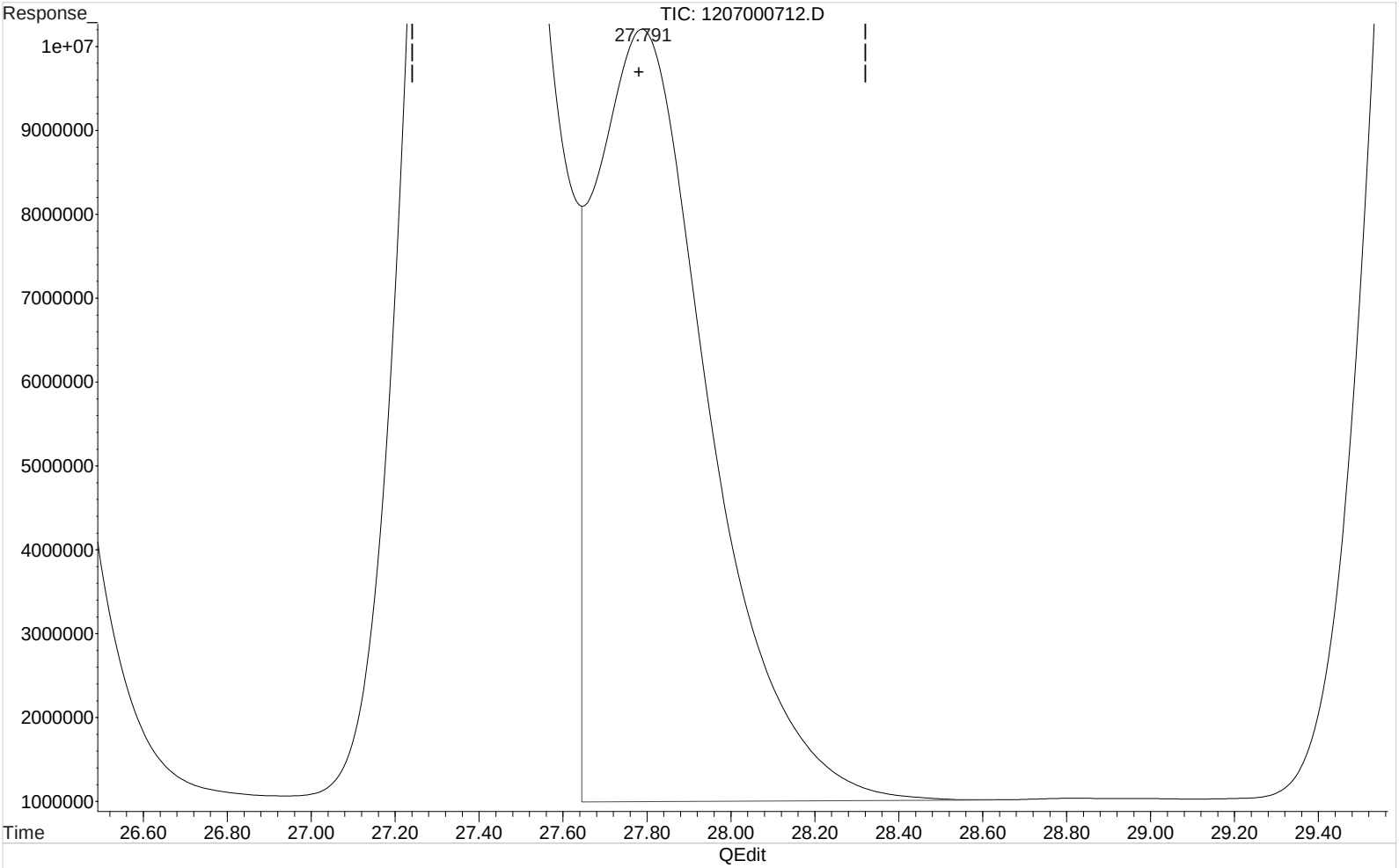
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000712.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:37:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:37:03 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.791min 9066.254 ug/L m

response 173278128

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000713.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:09:26 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:38:20 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	29.704	1145844586	20170.461 ug/L
Target Compounds				
1) T	Nitroglycerin	16.624	424970178	19359.201 ug/L m
2) T	PETN	27.797	360374404	19078.177 ug/L m

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

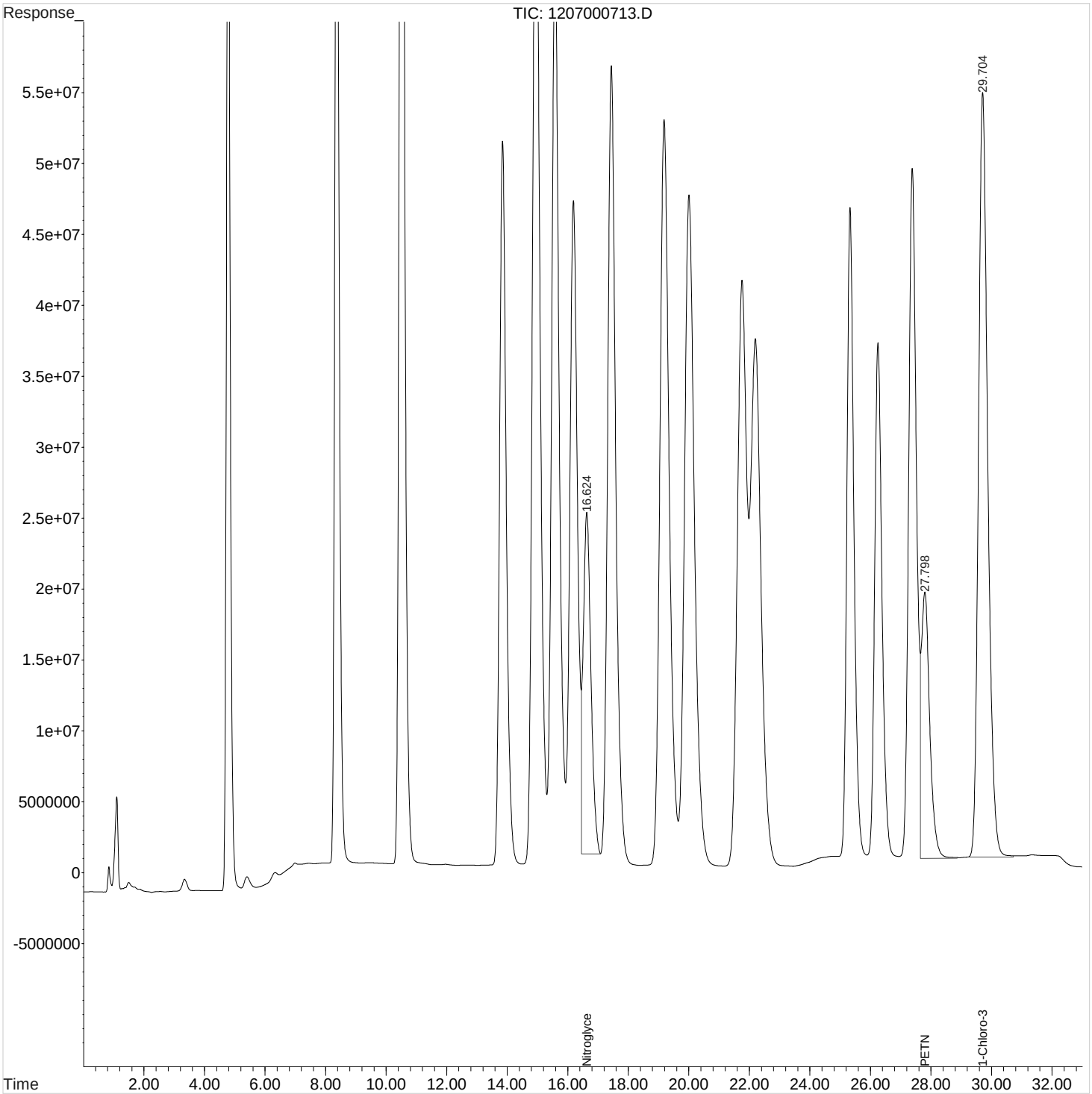
(b)(6)

1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000713.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:09:26 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:38:20 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



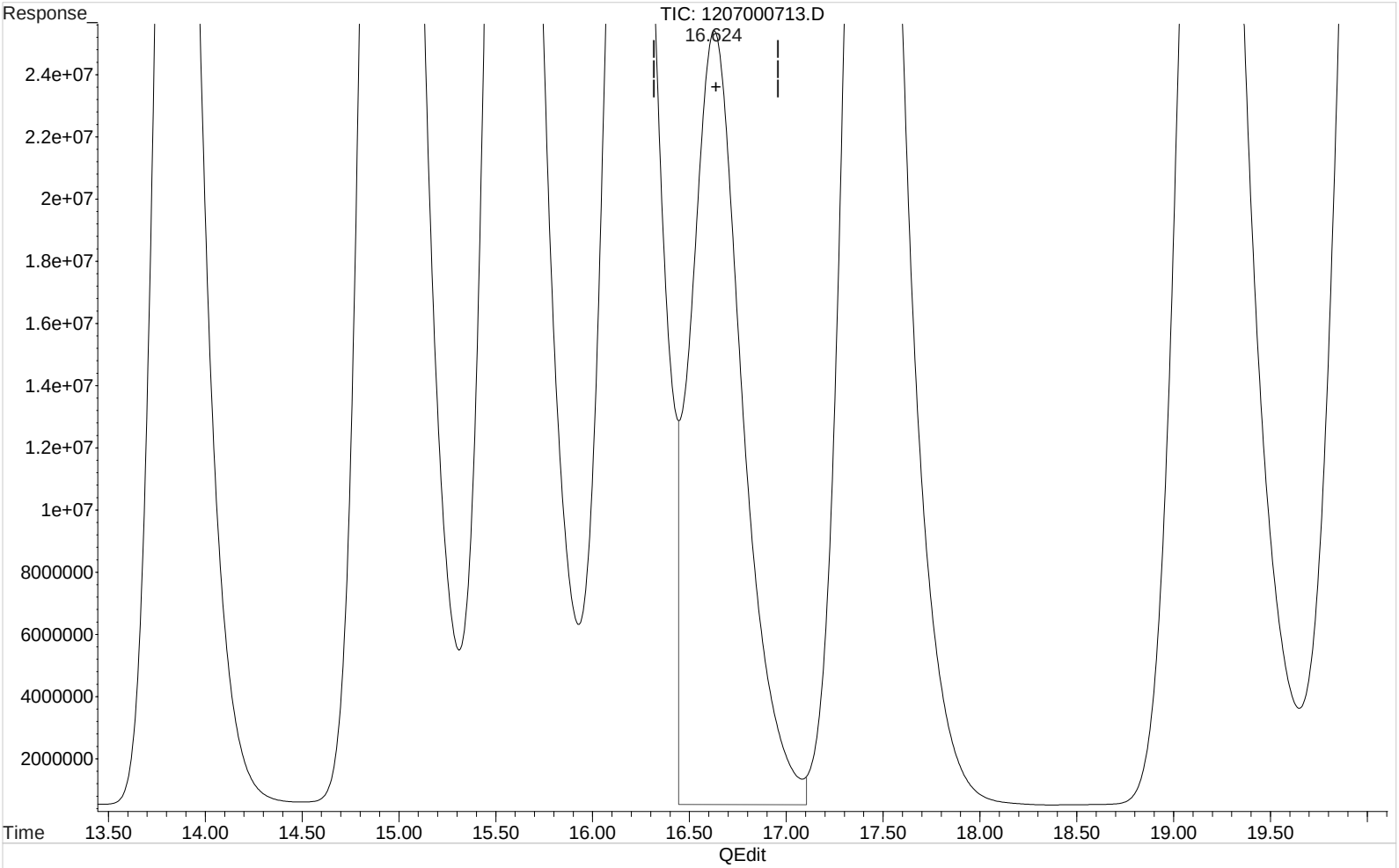
Quantitation Report (Qedit)

1st (b) (6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000713.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:38:32 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:38:20 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.624min 21000.929 ug/L

response 461009128

Manual Integration:

Before

12/08/16

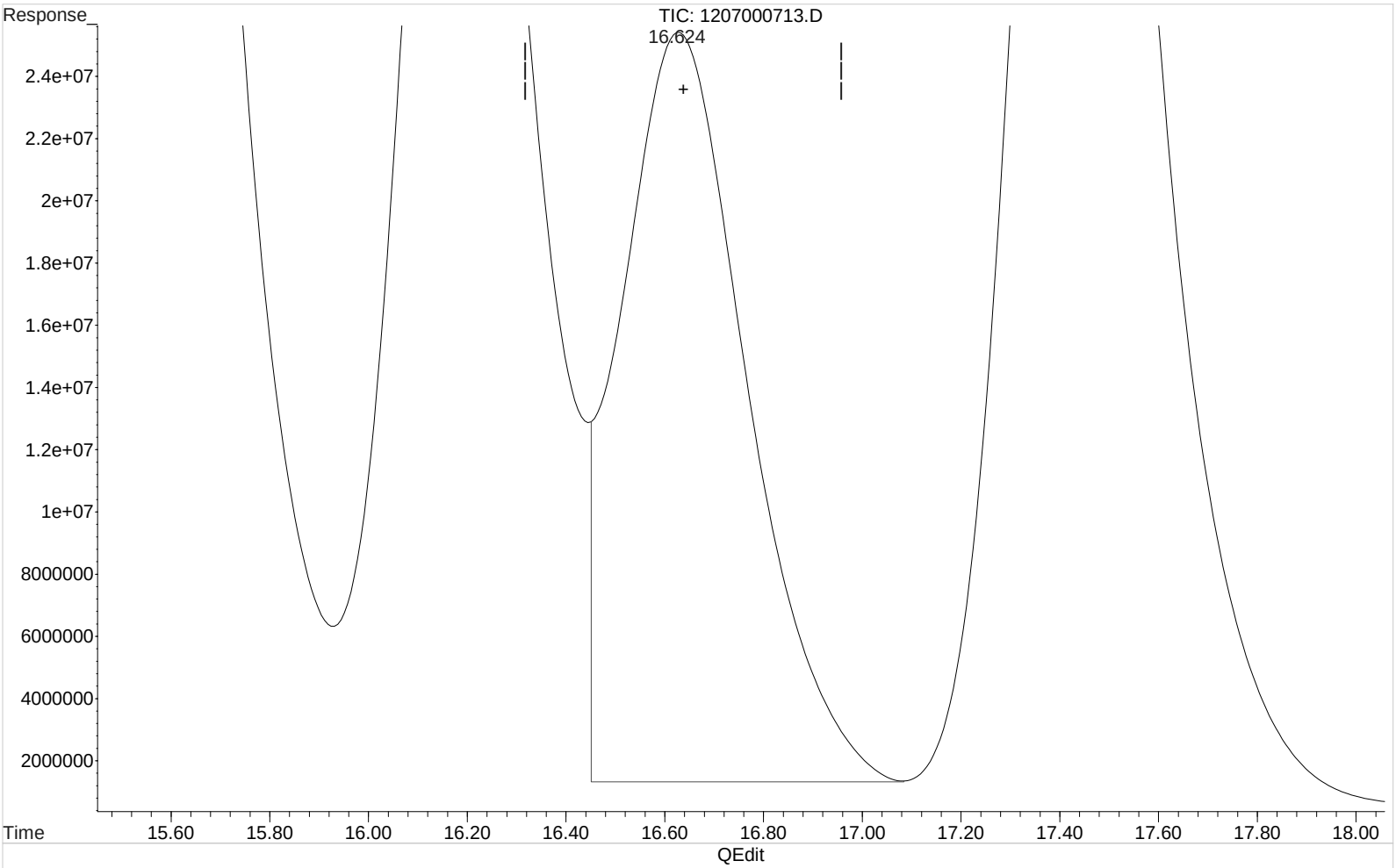
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000713.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:39:06 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:38:20 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.624min 19359.201 ug/L m

response 424970178

Manual Integration:

After

Baseline/Shoulder

12/08/16

(+) = Expected Retention Time

(b)(6)

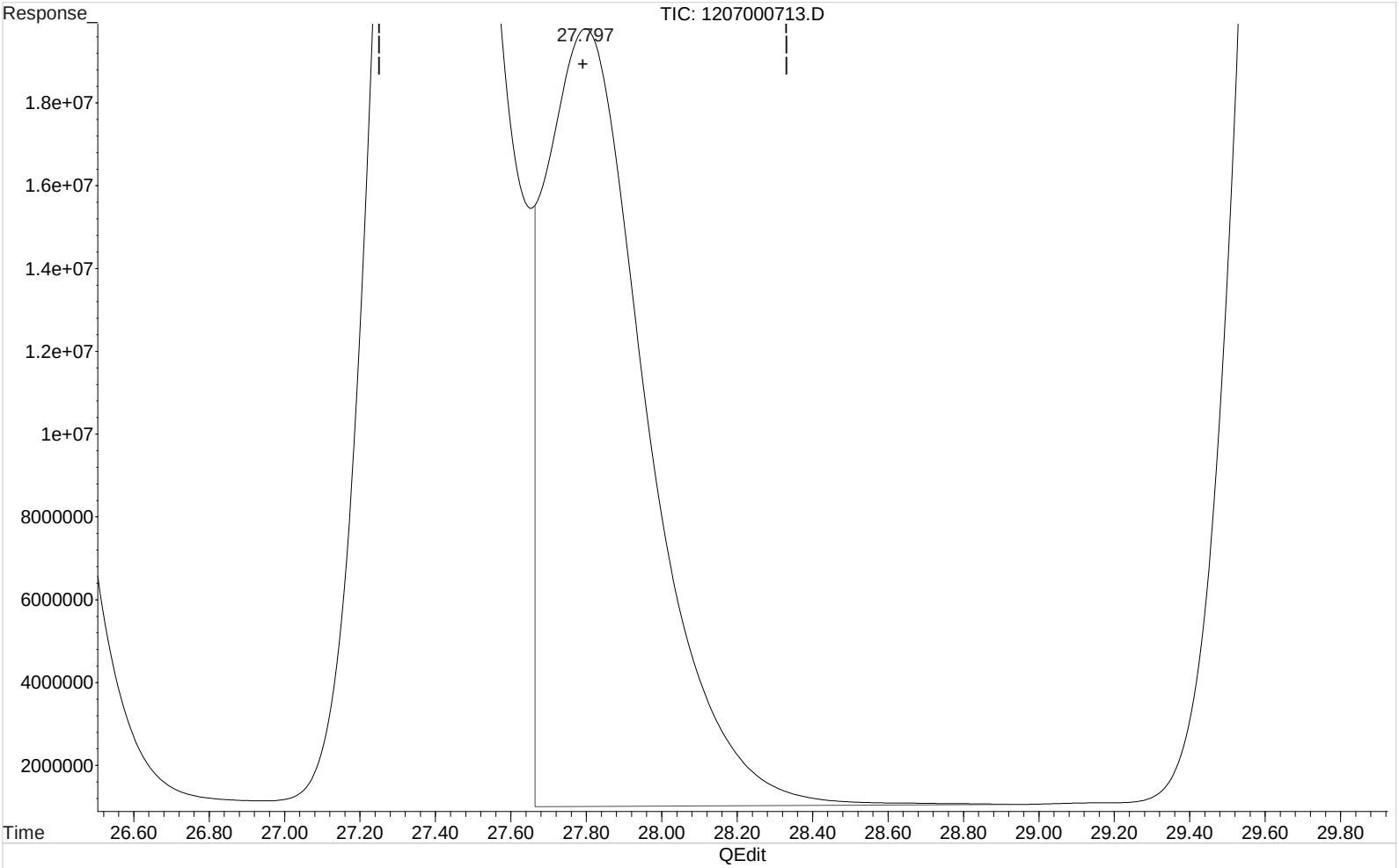
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000713.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:38:32 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:38:20 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.797min 18418.928 ug/L

response 347921609

Manual Integration:

Before

12/08/16

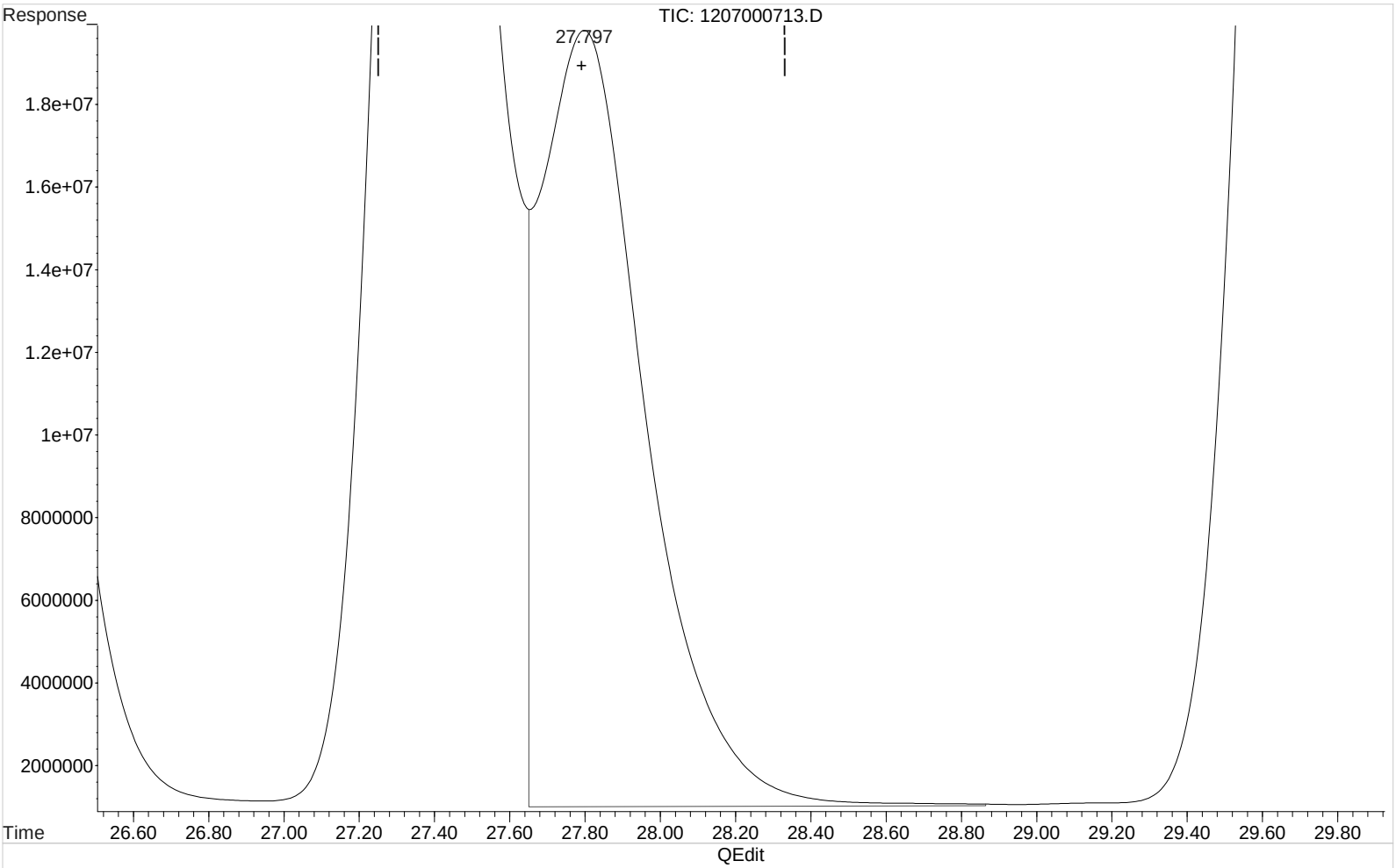
(+) = Expected Retention Time

1st (b)(6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000713.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:38:32 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:38:20 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.797min 19078.177 ug/L m

response 360374404

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

(b) (6)
1st 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000715.D Vial: 13
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:31:00 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:30:11 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.691	470830412	8280.252	ug/L	
Target Compounds						
1) T	Nitroglycerin	16.637	193613600	9287.498	ug/L	m
2) T	PETN	27.778	158765185	9023.071	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

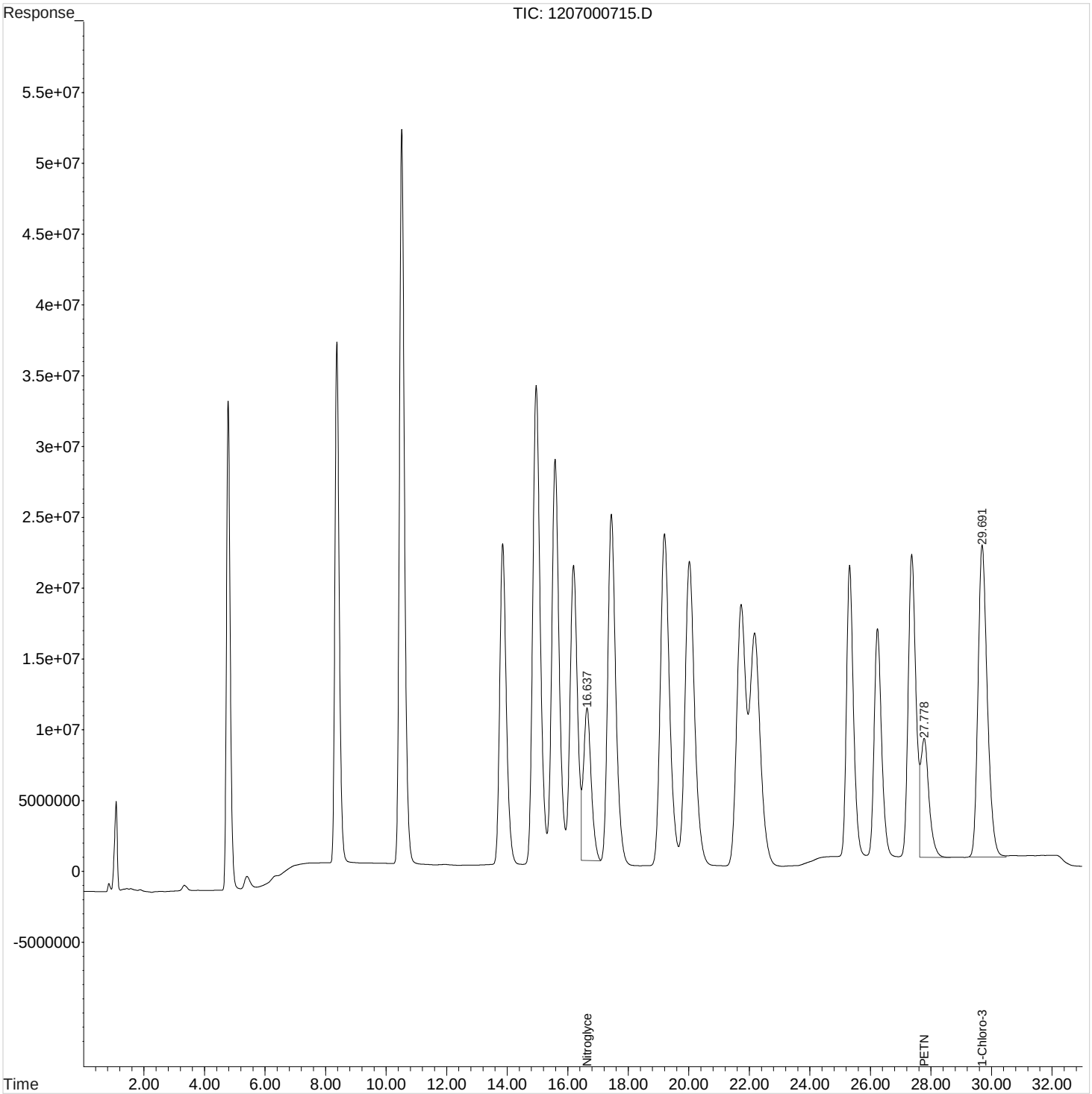
Quantitation Report (QT Reviewed)

(b)(6) 1st 12/08/16 2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000715.D Vial: 13
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:31:00 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:30:11 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



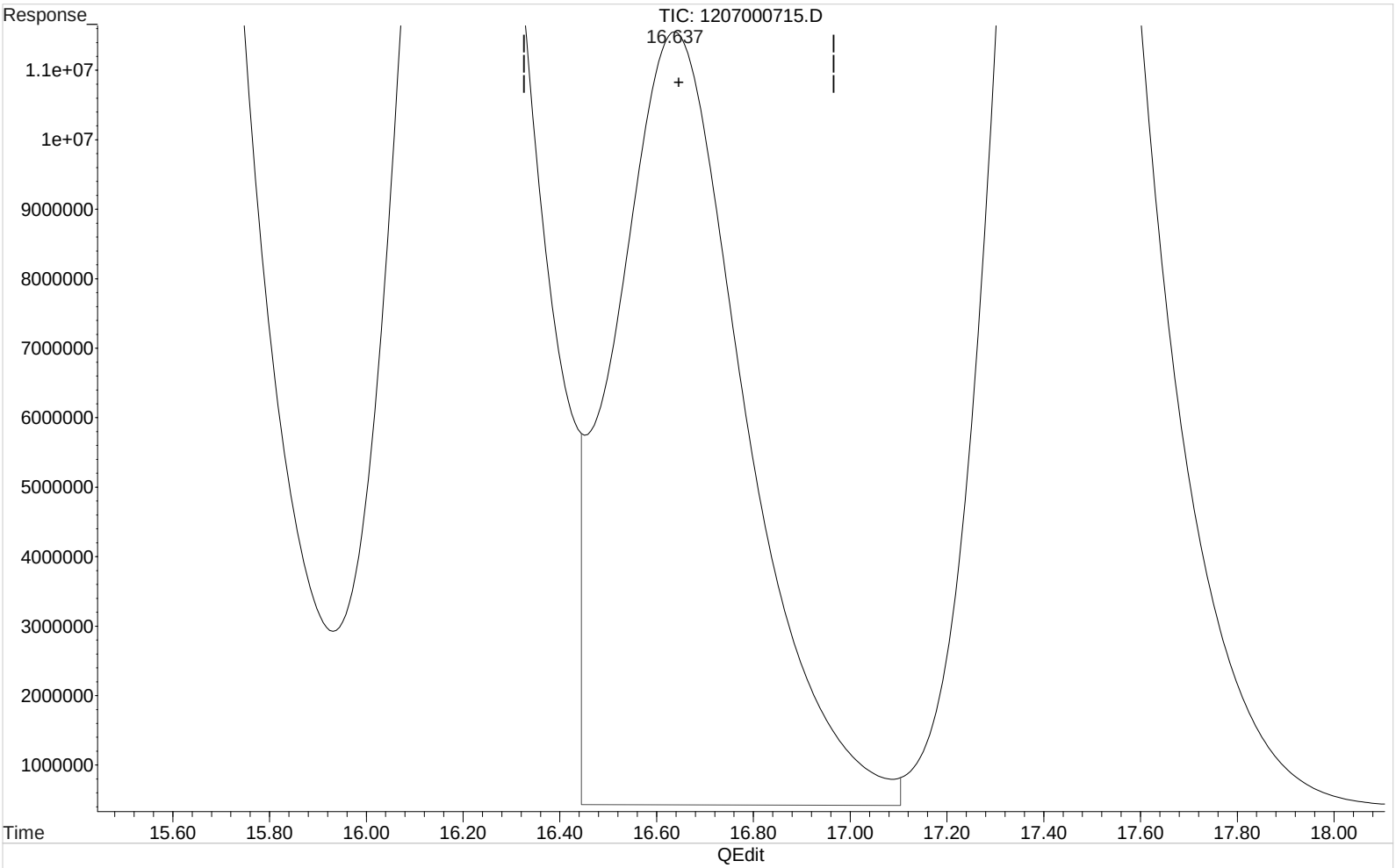
Quantitation Report (Qedit)

(b) (6)
1st 12/08/16
2n 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000715.D Vial: 13
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:30:40 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:30:11 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.637min 9917.726 ug/L

response 206751766

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

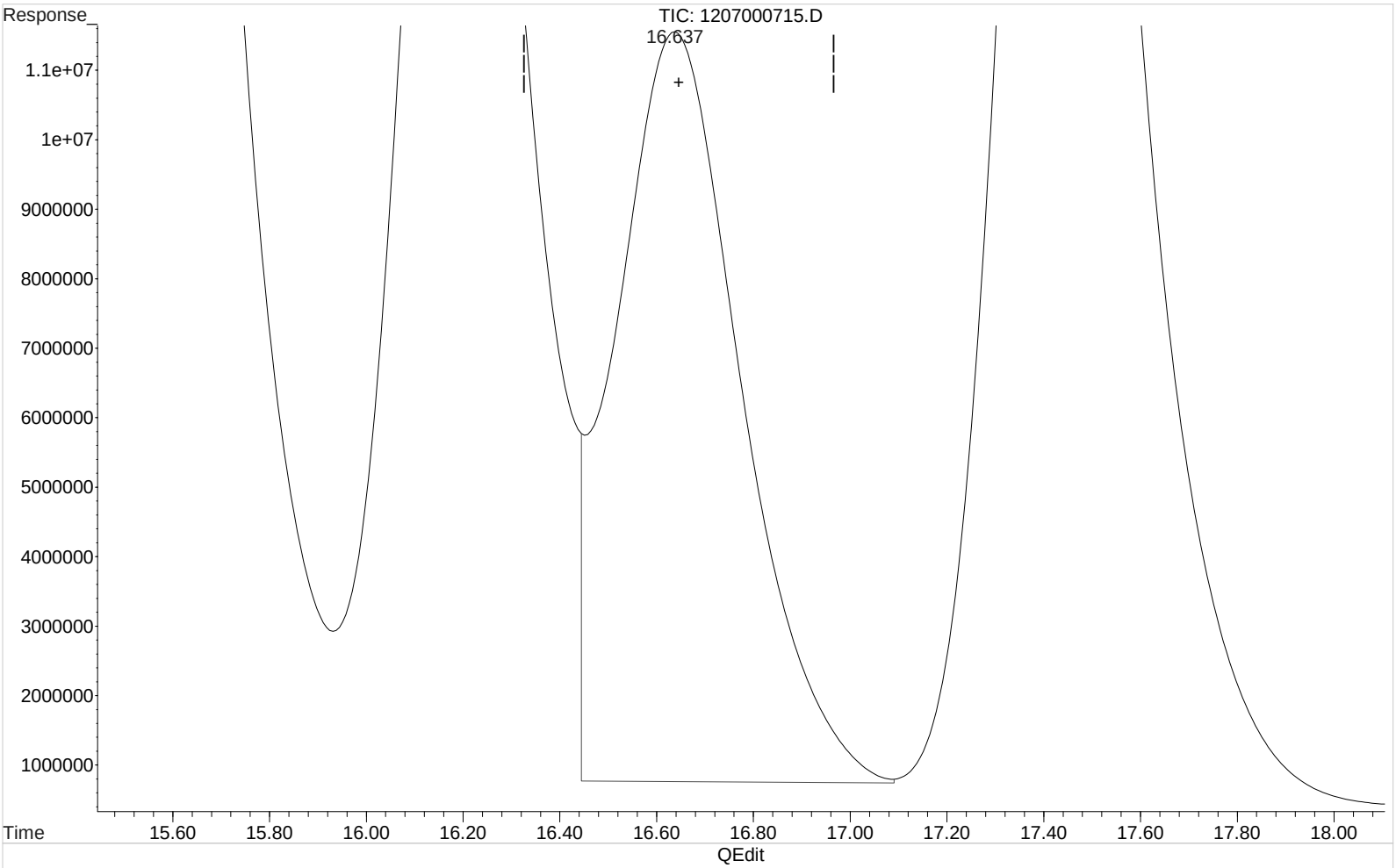
Quantitation Report (Qedit)

1st (b) (6) 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000715.D Vial: 13
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:30:40 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:30:11 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.637min 9287.498 ug/L m

response 193613600

Manual Integration:

After

Baseline/Shoulder

12/08/16

(+) = Expected Retention Time

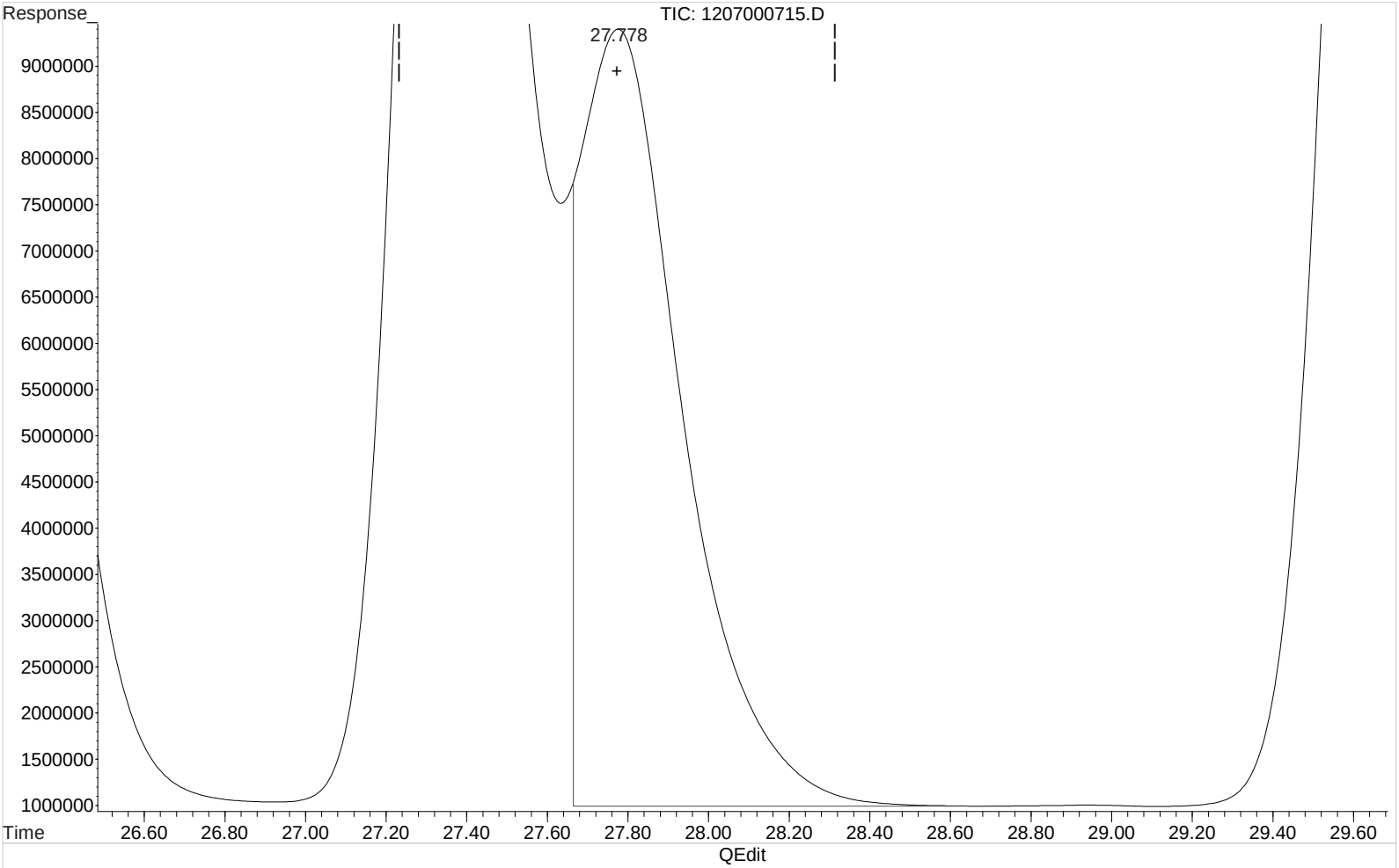
Quantitation Report (Qedit)

(b) (6)
1st 2/08/16
2n 2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000715.D Vial: 13
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:30:40 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:30:11 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.778min 8252.774 ug/L

response 145211446

Manual Integration:

Before

12/08/16

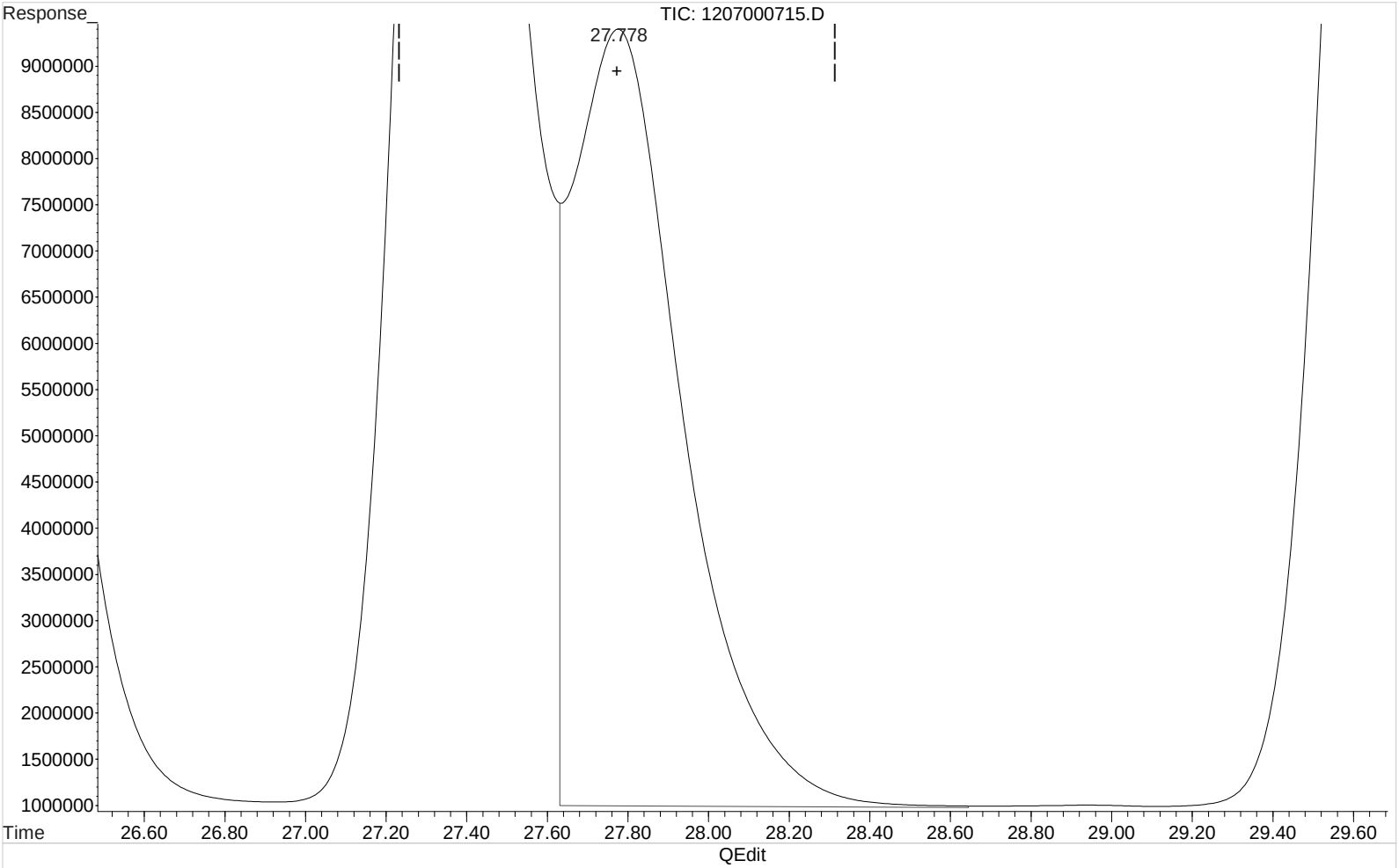
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000715.D Vial: 13
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:30:40 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:30:11 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.778min 9023.071 ug/L m

response 158765185

Manual Integration:

After

Baseline/Shoulder

12/08/16

(+) = Expected Retention Time

Date: 12/7/2016 **ALS Kelso, WA** **ICAL Date:** 12/7/2016

By: AE **Injection Log** **ICAL ID:** (254)-15062 (210)-15063

Stealth ID: n/a **LC10 - Agilent 1260** **LIMS ID:** **2nd Review:** n/a (b) (6)

Column: Phen. Synergi Hydro-RP 80A 250x4.6 mm SN 759076-19

Mobile Phases A: MeOH Lot#: 56175 **B:** ACN Lot#: 56165 **C:** H_2O Lot#: 56006 **D:**

	Sample Name	File Name	Method	Dilution	R	Comments
1		12070000101	8330BX+DIAMINOS.M	NA		
2		12070000102	8330BX+DIAMINOS.M	NA		
3		1207000202	8330BX+DIAMINOS.M	NA		
4		1207000203	8330BX+DIAMINOS.M	NA		
5		1207000204	8330BX+DIAMINOS.M	NA		
6		1207000205	8330BX+DIAMINOS.M	NA		
7		1207000206	8330BX+DIAMINOS.M	NA		
8		1207000207	8330BX+DIAMINOS.M	NA		
9		1207000303	8330BX+DIAMINOS.M	NA		
10		1207000404	8330BX+DIAMINOS.M	NA		
11		1207000405	8330BX+DIAMINOS.M	NA		
12		1207000505	8330BX+DIAMINOS.M	NA		
13		1207000601	8330BX+DIAMINOS.M	NA		
14		1207000602	8330BX+DIAMINOS.M	NA		
15		1207000603	8330BX+DIAMINOS.M	NA		
16		1207000701	8330BX+DIAMINOS.M	NA		
17		1207000702	8330BX+DIAMINOS.M	NA		
18	IB	1207000703	8330BX+DIAMINOS.M	NA	X	
19	16-OLC-01-89J 20 PPB	1207000704	8330BX+DIAMINOS.M	NA	X	
20	16-OLC-01-89I 50 PPB	1207000705	8330BX+DIAMINOS.M	NA	X	
21	16-OLC-01-89H 100 PPB	1207000706	8330BX+DIAMINOS.M	NA	X	
22	16-OLC-01-89G 200 PPB	1207000707	8330BX+DIAMINOS.M	NA	X	
23	16-OLC-01-89F 500 PPB	1207000708	8330BX+DIAMINOS.M	NA	X	
24	16-OLC-01-89E 1000 PPB	1207000709	8330BX+DIAMINOS.M	NA	X	
25	16-OLC-01-89D 2000 PPB	1207000710	8330BX+DIAMINOS.M	NA	X	
26	16-OLC-01-89C 5000 PPB	1207000711	8330BX+DIAMINOS.M	NA	X	
27	16-OLC-01-89B 10000 PPB	1207000712	8330BX+DIAMINOS.M	NA	X	
28	16-OLC-01-89A 20000 PPB	1207000713	8330BX+DIAMINOS.M	NA	X	
29	IB	1207000714	8330BX+DIAMINOS.M	NA	X	
30	16-OLC-01-89K 10000 PPB ICV	1207000715	8330BX+DIAMINOS.M	NA	X	

(CCL not valid for Diaminos)

R:\OLC\Injection Logs\LC10 2016\INJLOG_LC10_xl_120716_ICAL

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000703.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 19:36:44 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:24:49 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:23:13 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	0.000	0	N.D.	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	0.000	0	N.D.	ug/L
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L
6)	T	1,3-DNB	0.000	0	N.D.	ug/L
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8)	T	Tetryl	0.000	0	N.D.	ug/L
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13)	T	2,6-DNT	0.000	0	N.D.	ug/L
14)	T	2,4-DNT	0.000	0	N.D.	ug/L
15)	T	2-NT	0.000	0	N.D.	ug/L
16)	T	4-NT	0.000	0	N.D.	ug/L
17)	T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000703.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 19:36:44 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:24:49 2016
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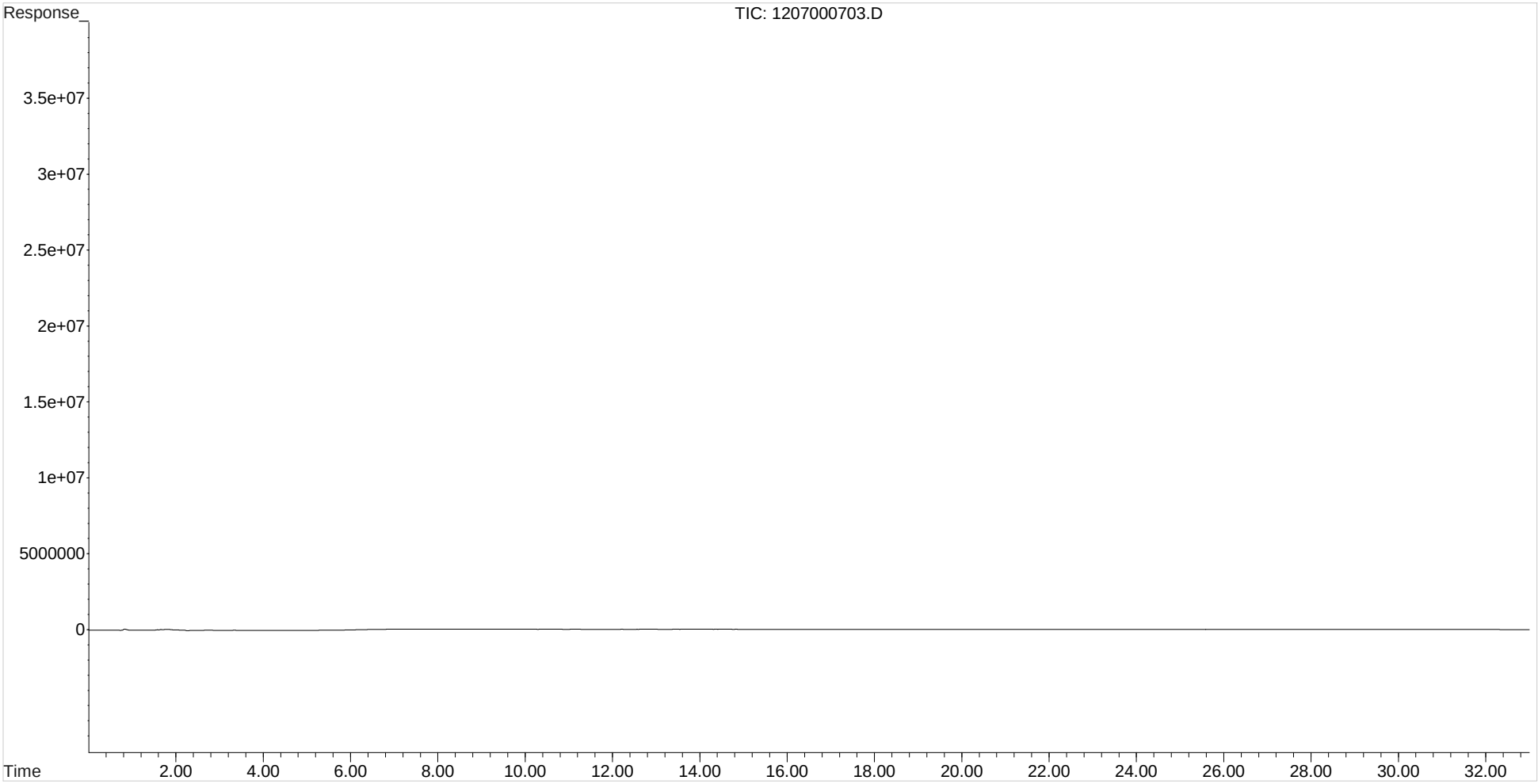
Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:23:13 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 13:46:47 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
18) S	1-Chloro-3-Nitrobenzene	29.718	461332	NoCal	ug/L	m
	Target Compounds					
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2) T	HMX	4.618	232698	NoCal	ug/L	m
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4) T	RDX	8.378	420328	NoCal	ug/L	m
5) T	1,3,5-TNB	10.518	908690	NoCal	ug/L	m
6) T	1,3-DNB	13.865	1258488	NoCal	ug/L	
7) T	3,5-Dinitroaniline	14.978	975768	NoCal	ug/L	m
8) T	Tetryl	15.592	673809	NoCal	ug/L	m
9) T	Nitrobenzene	16.198	787874	NoCal	ug/L	m
10) T	2,4,6-TNT	17.445	797481	NoCal	ug/L	m
11) T	4-Amino-2,6-DNT	19.212	537582	NoCal	ug/L	m
12) T	2-Amino-4,6-DNT	20.038	846074	NoCal	ug/L	m
13) T	2,6-DNT	21.765	470868	NoCal	ug/L	m
14) T	2,4-DNT	22.218	1151614	NoCal	ug/L	m
15) T	2-NT	25.332	349859	NoCal	ug/L	m
16) T	4-NT	26.252	319957	NoCal	ug/L	m
17) T	3-NT	27.378	411159	NoCal	ug/L	m

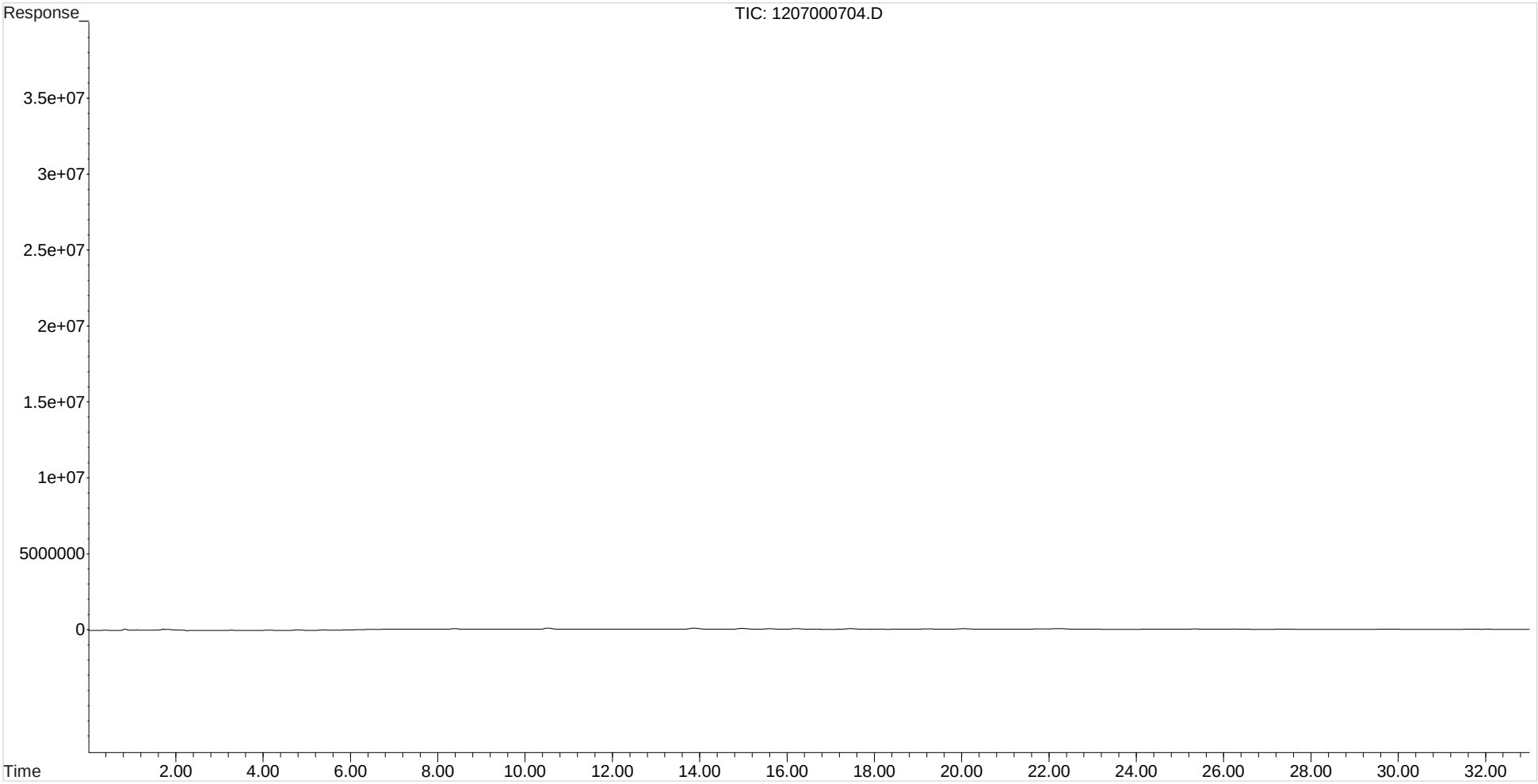
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 13:46:47 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

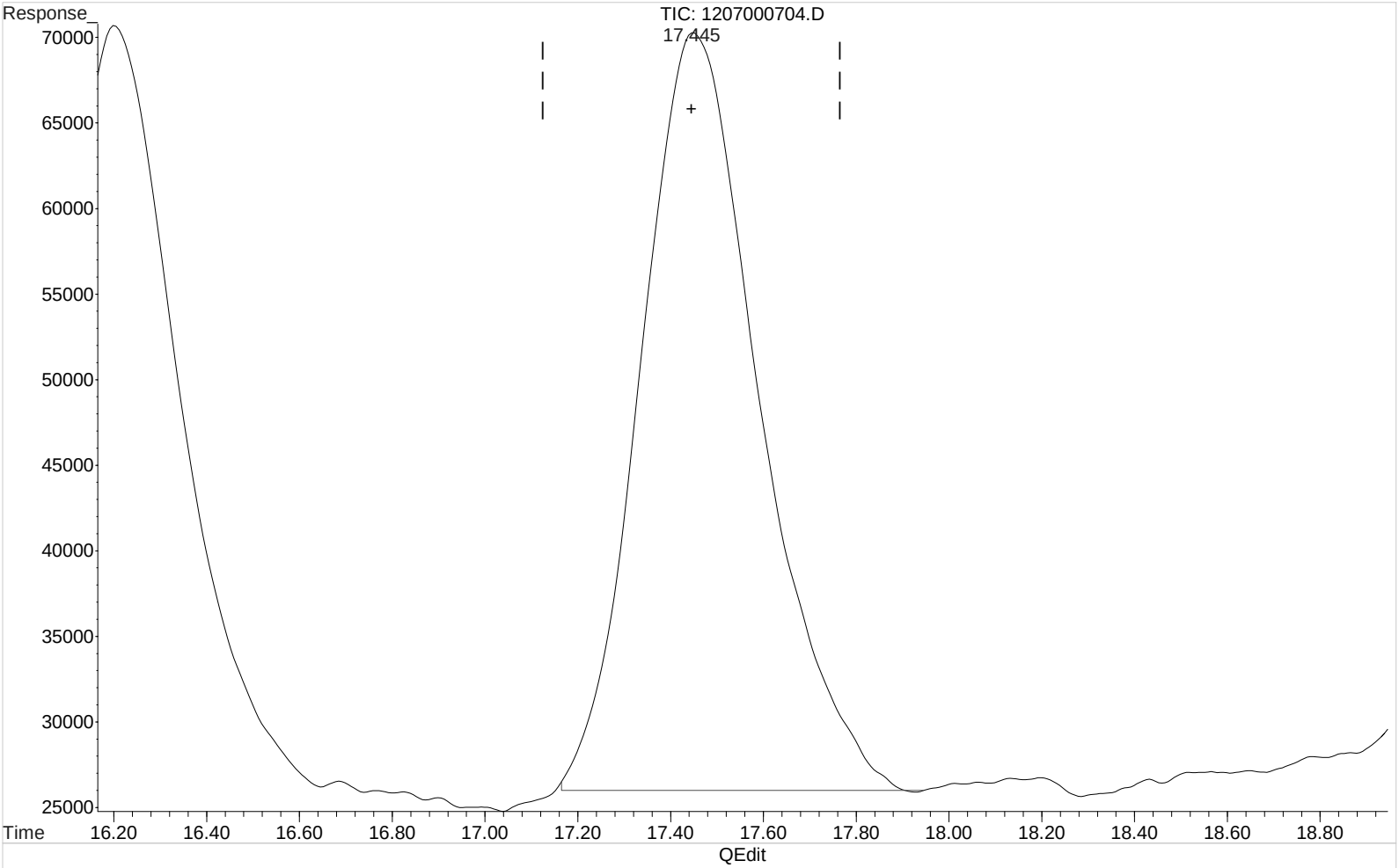


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(10) 2,4,6-TNT (T)

17.445min 0.000 ug/L

response 786868

Manual Integration:

Before

12/08/16

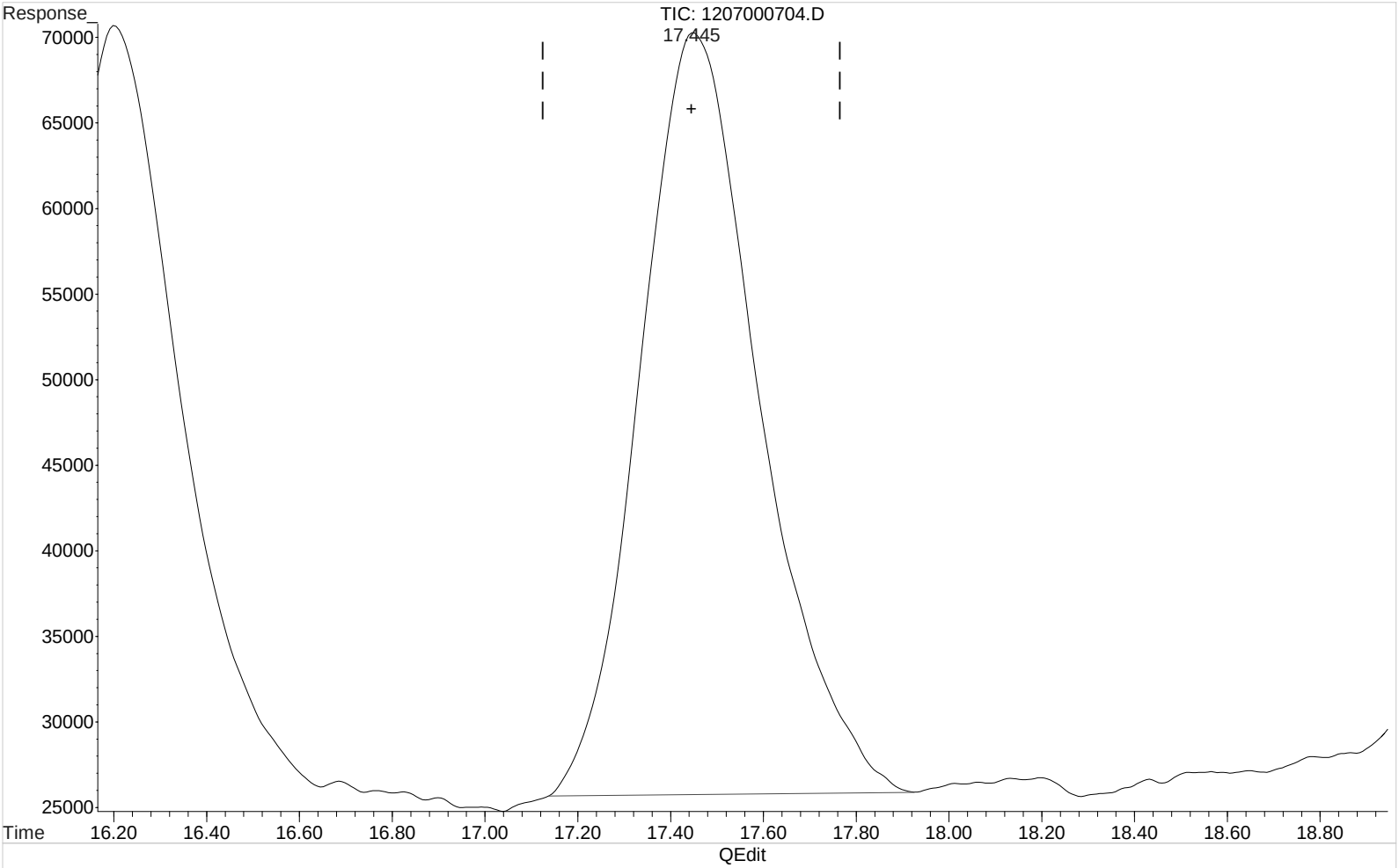
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(10) 2,4,6-TNT (T)

17.445min 0.000 ug/L m

response 797481

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)

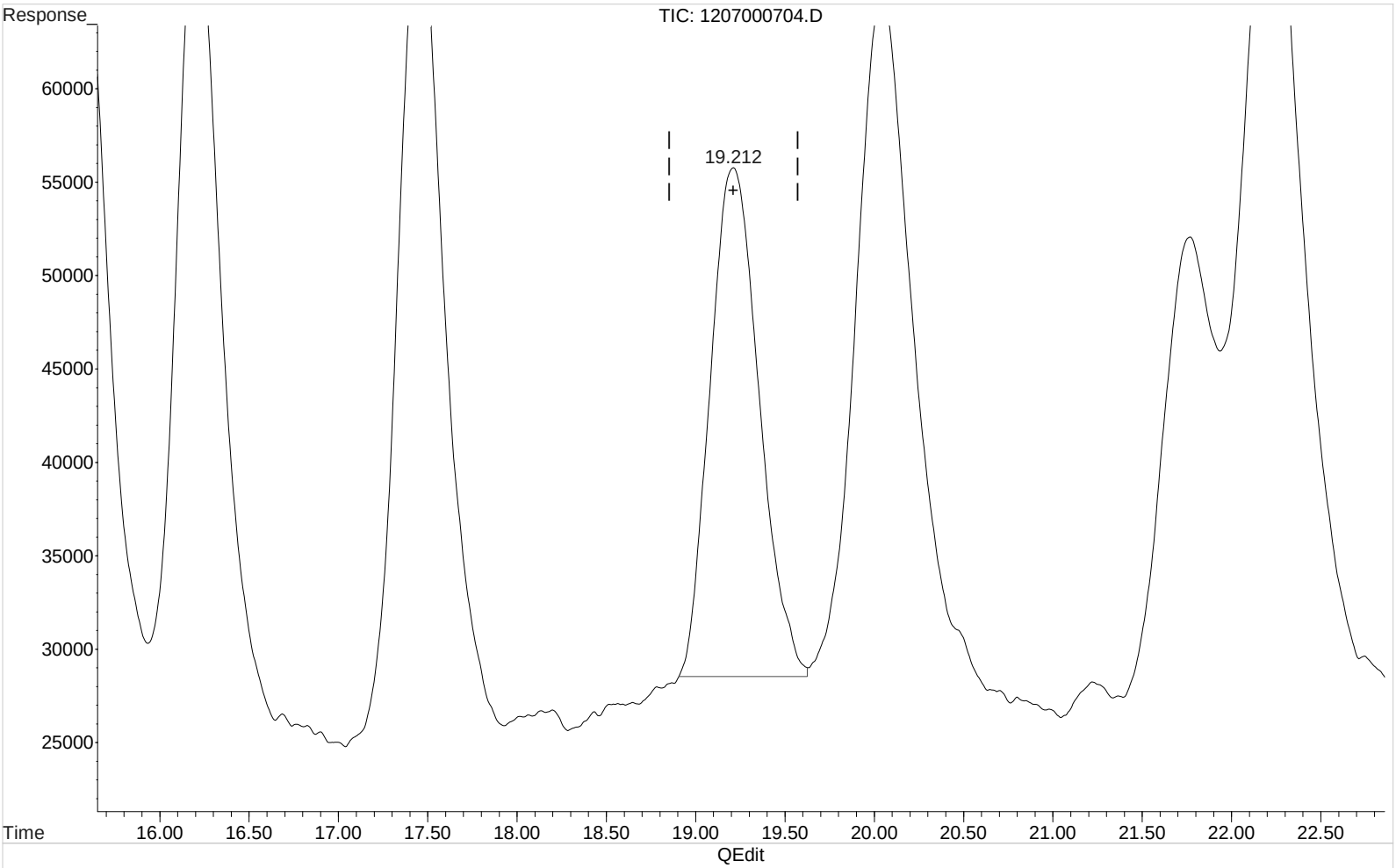
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(11) 4-Amino-2,6-DNT (T)

19.212min 0.000 ug/L

response 521042

Manual Integration:

Before

12/08/16

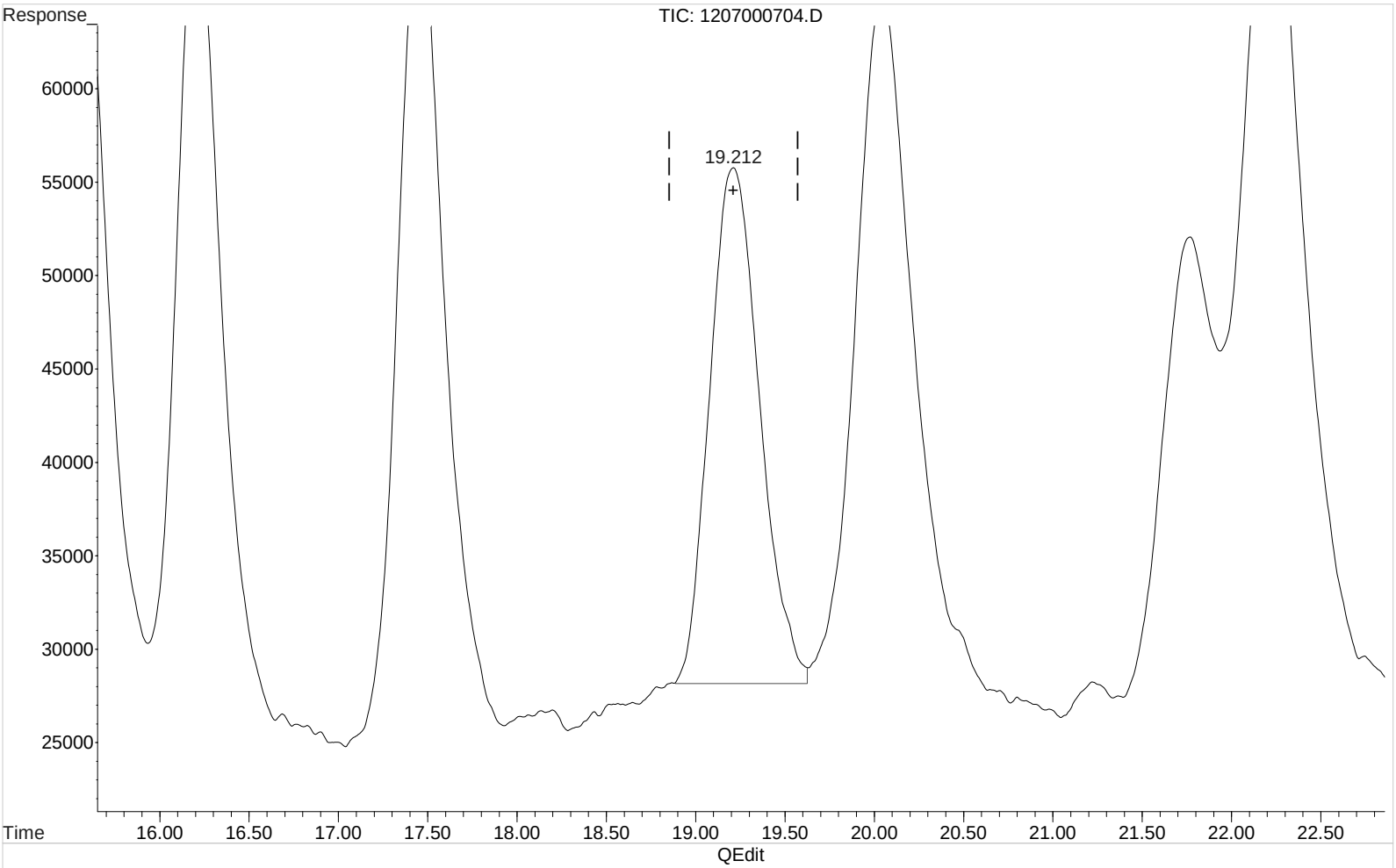
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(11) 4-Amino-2,6-DNT (T)
19.212min 0.000 ug/L m
response 537582

Manual Integration:
After
BLC
12/08/16

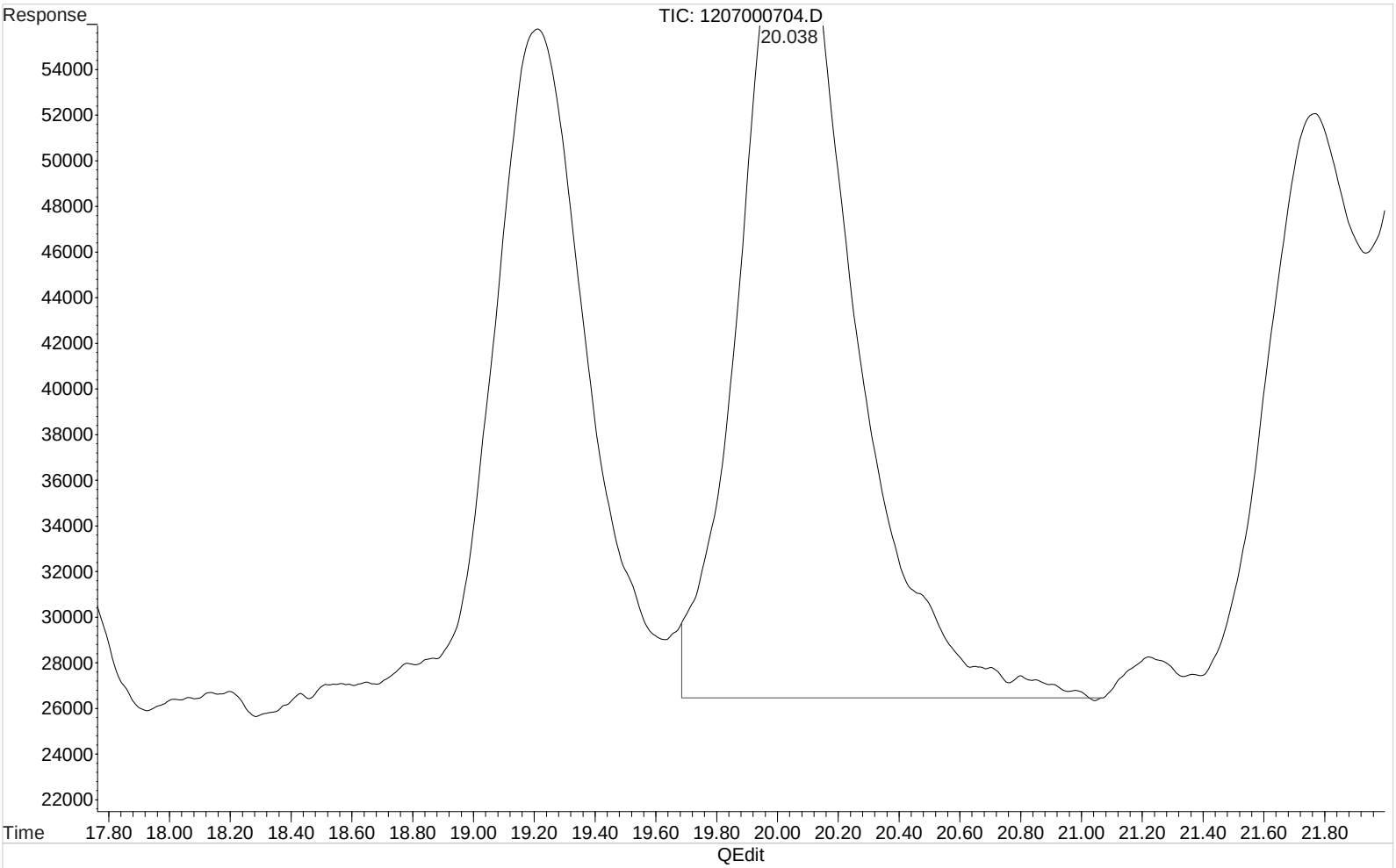
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(12) 2-Amino-4,6-DNT (T)

20.038min 0.000 ug/L

response 932740

Manual Integration:

Before

12/08/16

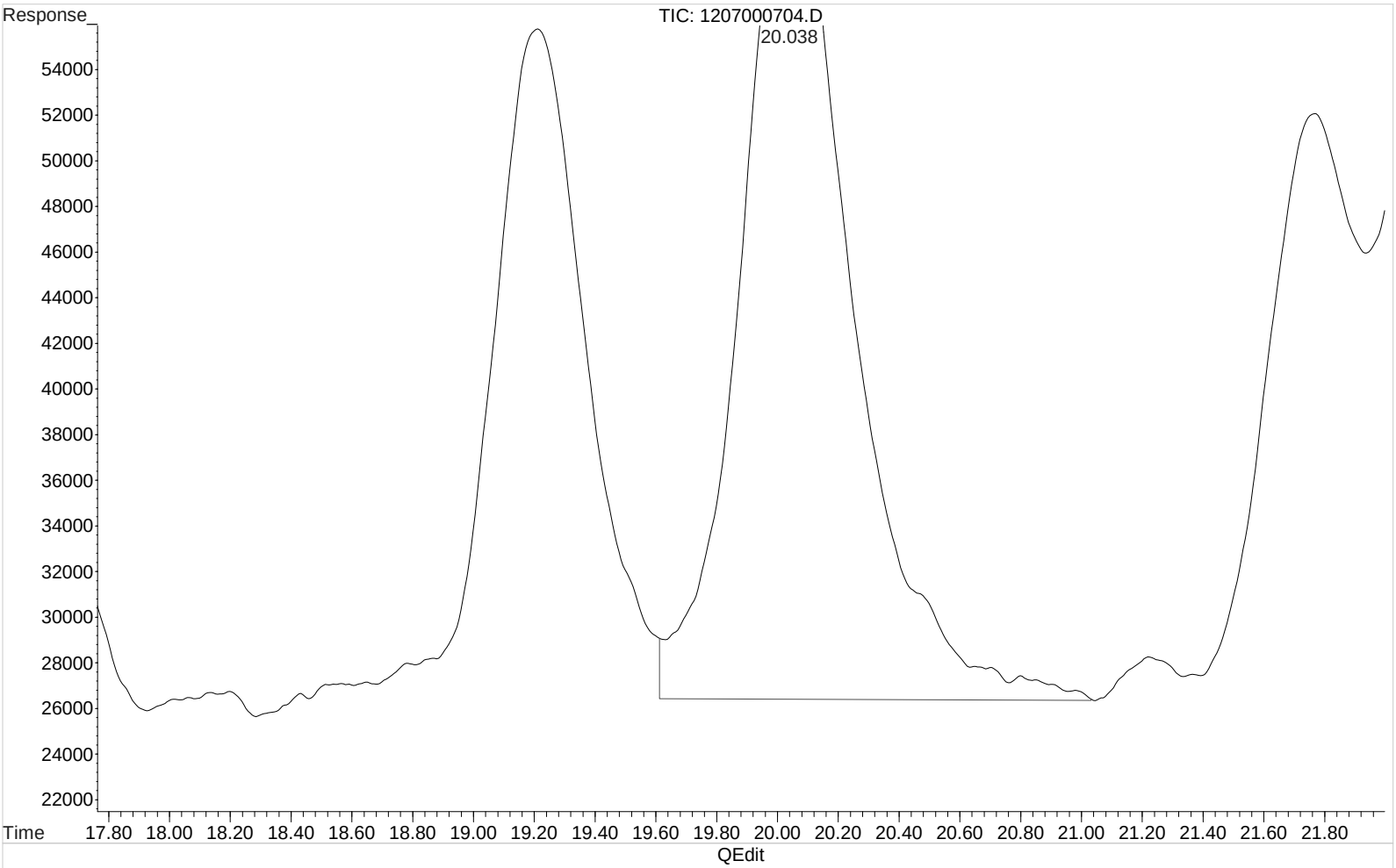
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(12) 2-Amino-4,6-DNT (T)

20.038min 0.000 ug/L m

response 951343

Manual Integration:

After

BLC

12/08/16

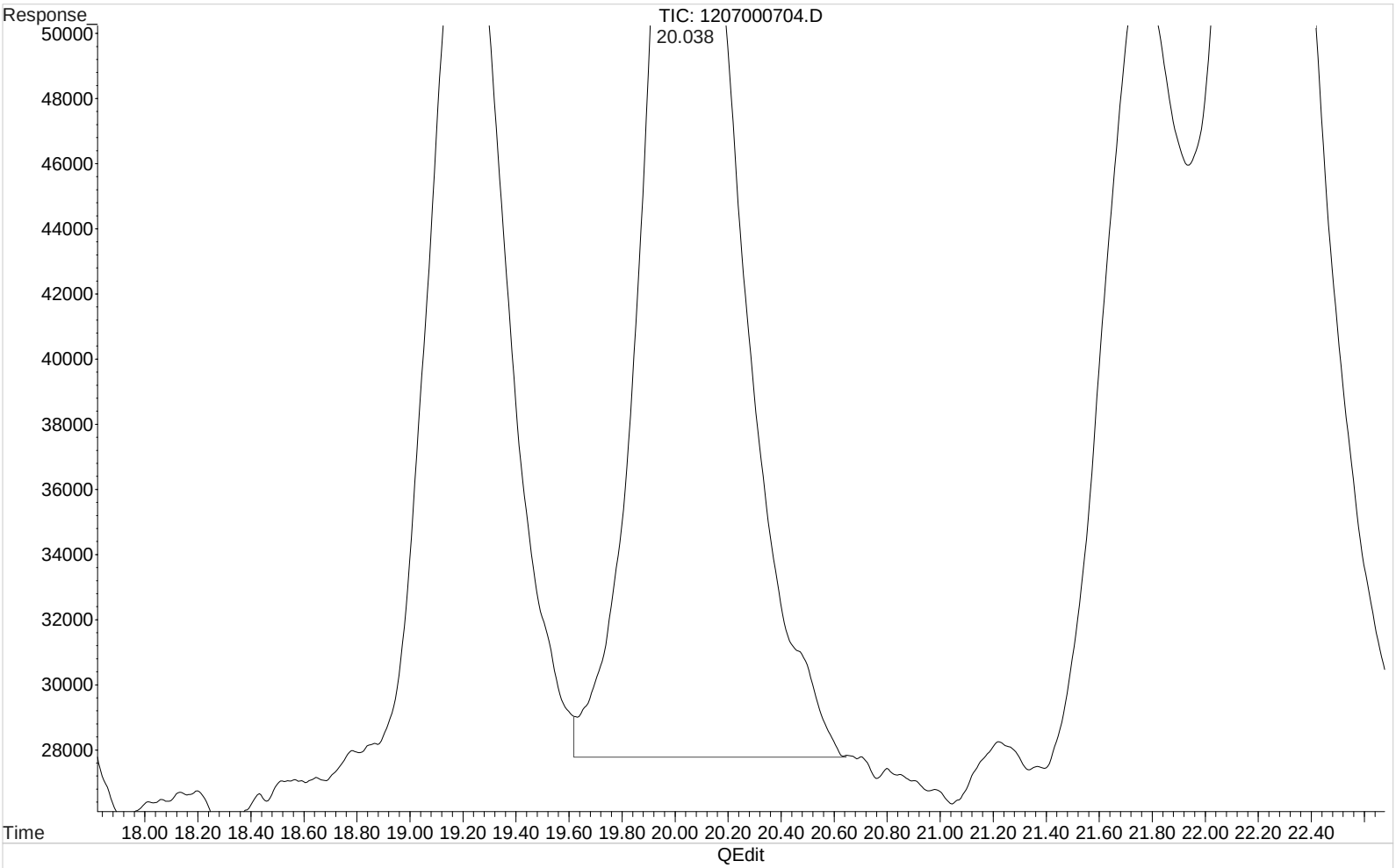
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:32:07 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(12) 2-Amino-4,6-DNT (T)

20.038min 0.000 ug/L m

response 846074

Manual Integration:

After

Baseline/Shoulder

12/08/16

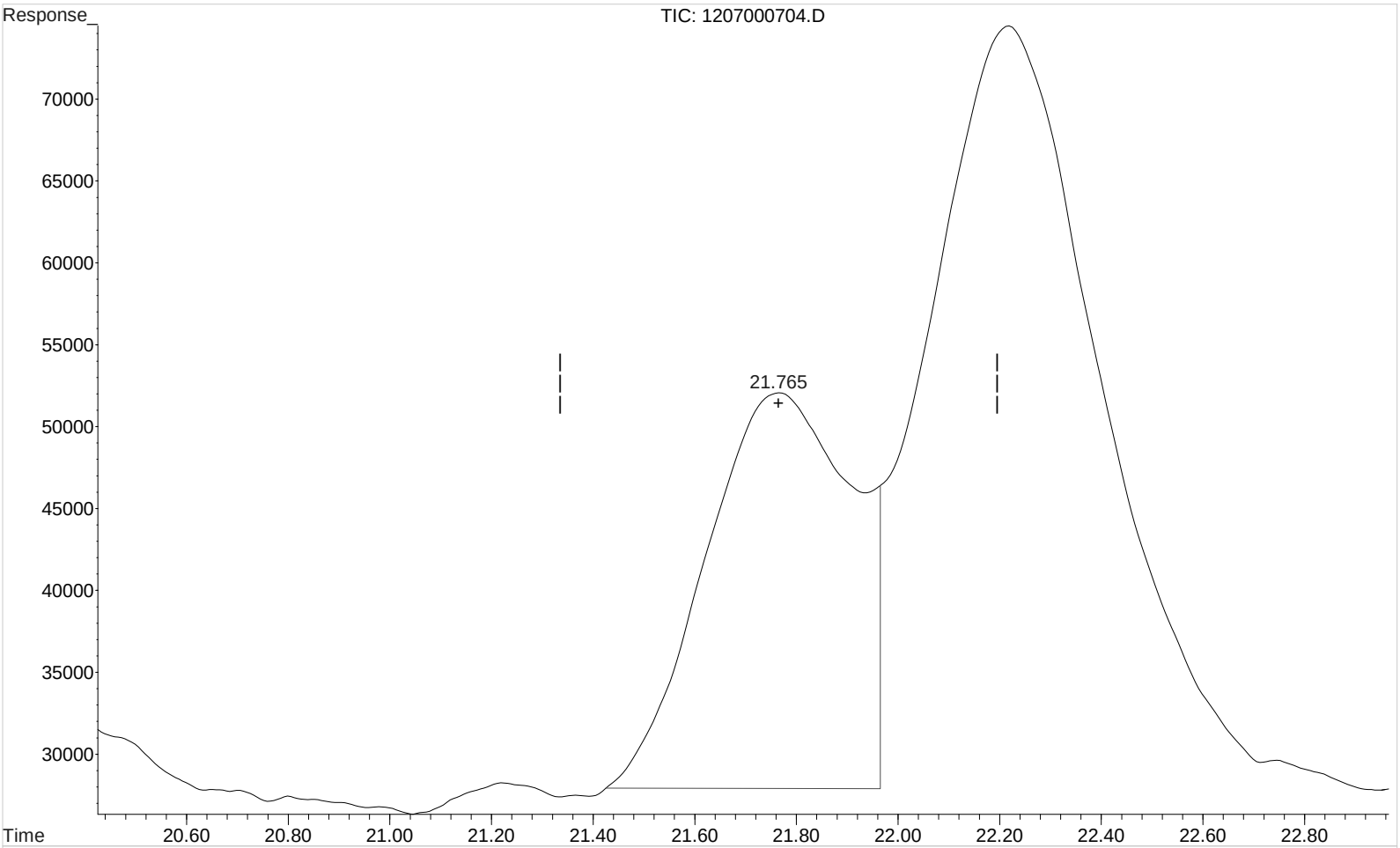
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.765min 0.000 ug/L

response 490736

Manual Integration:

Before

12/08/16

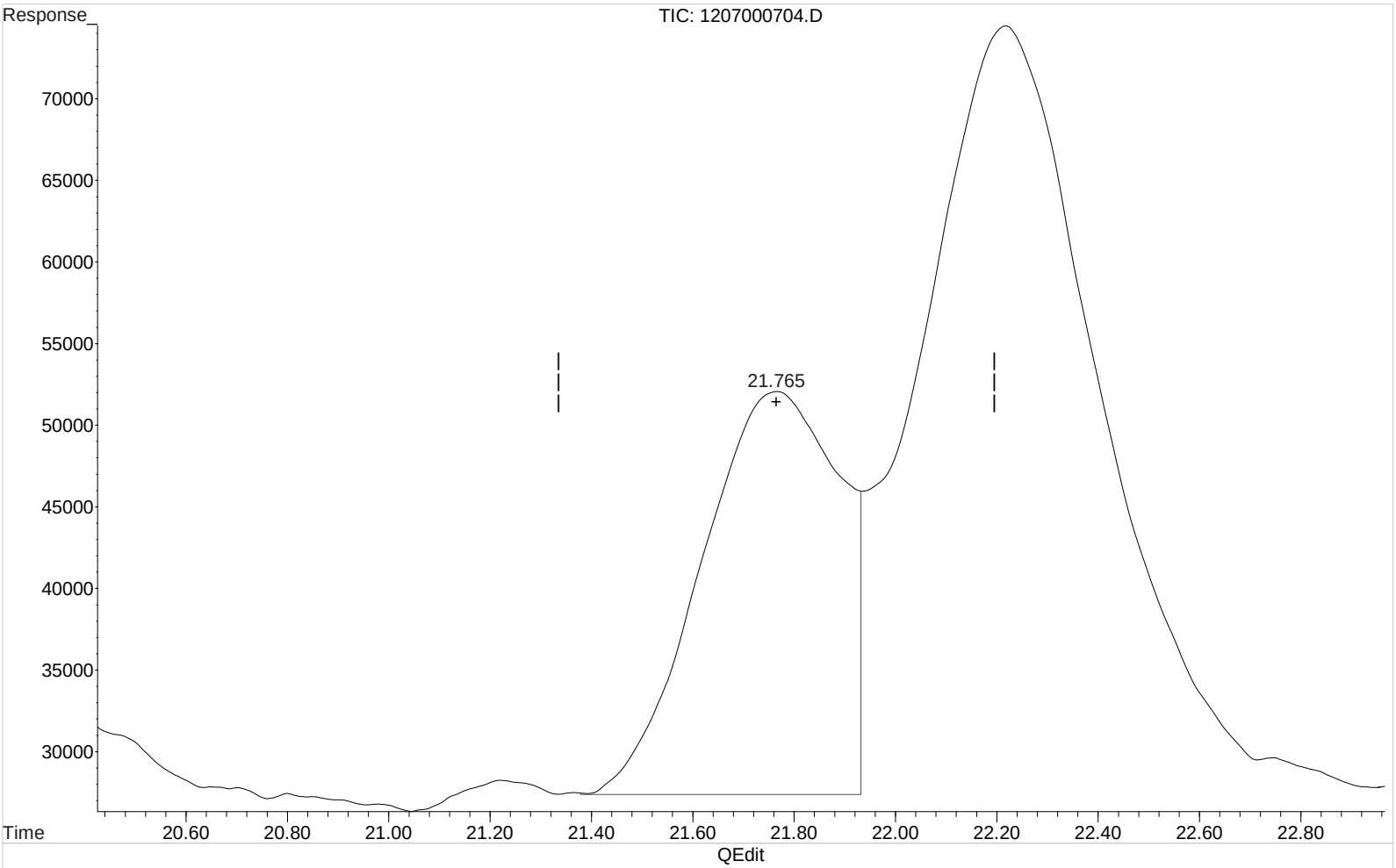
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.765min 0.000 ug/L m

response 470868

Manual Integration:

After

BLC

12/08/16

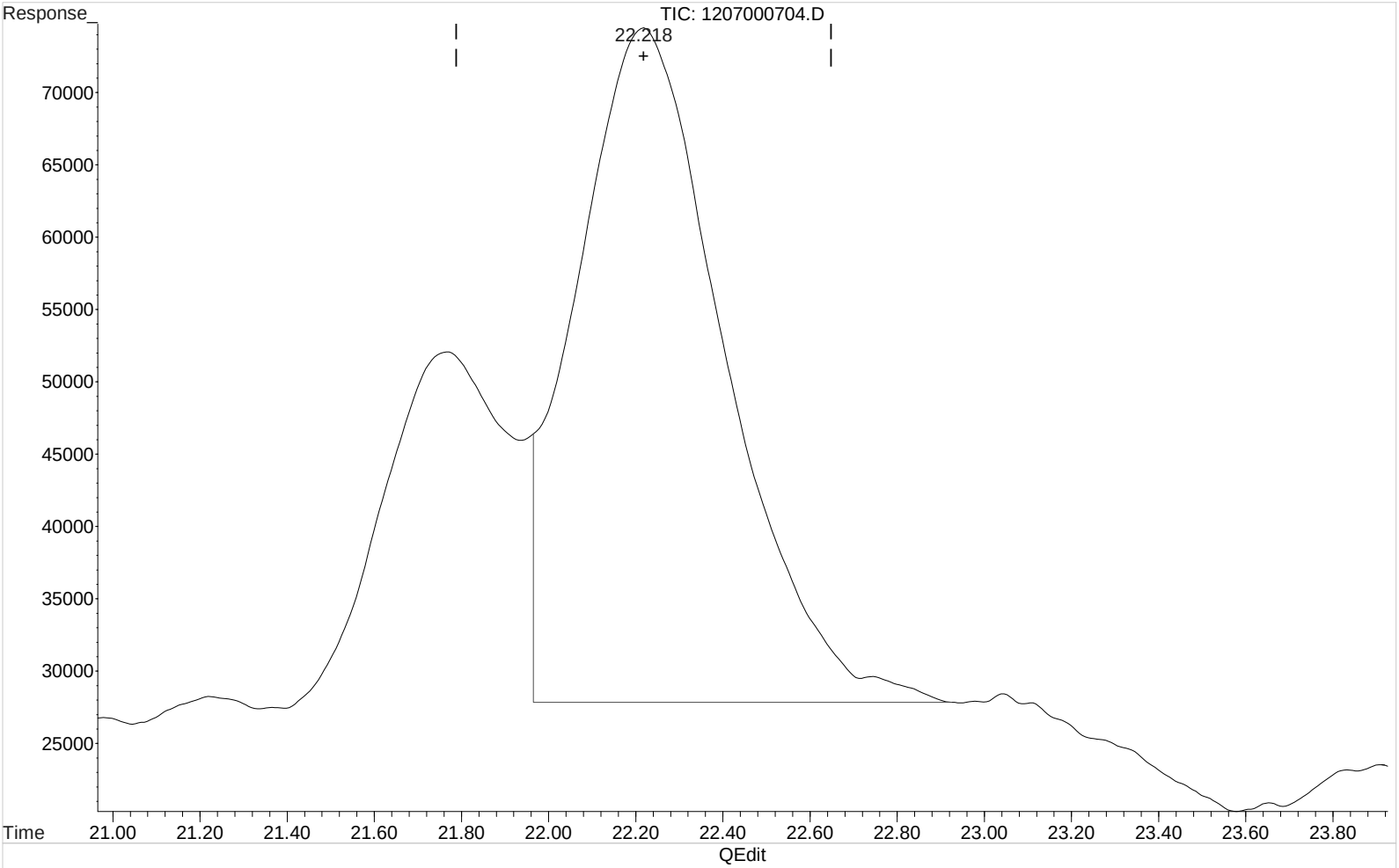
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.218min 0.000 ug/L

response 1110180

Manual Integration:

Before

12/08/16

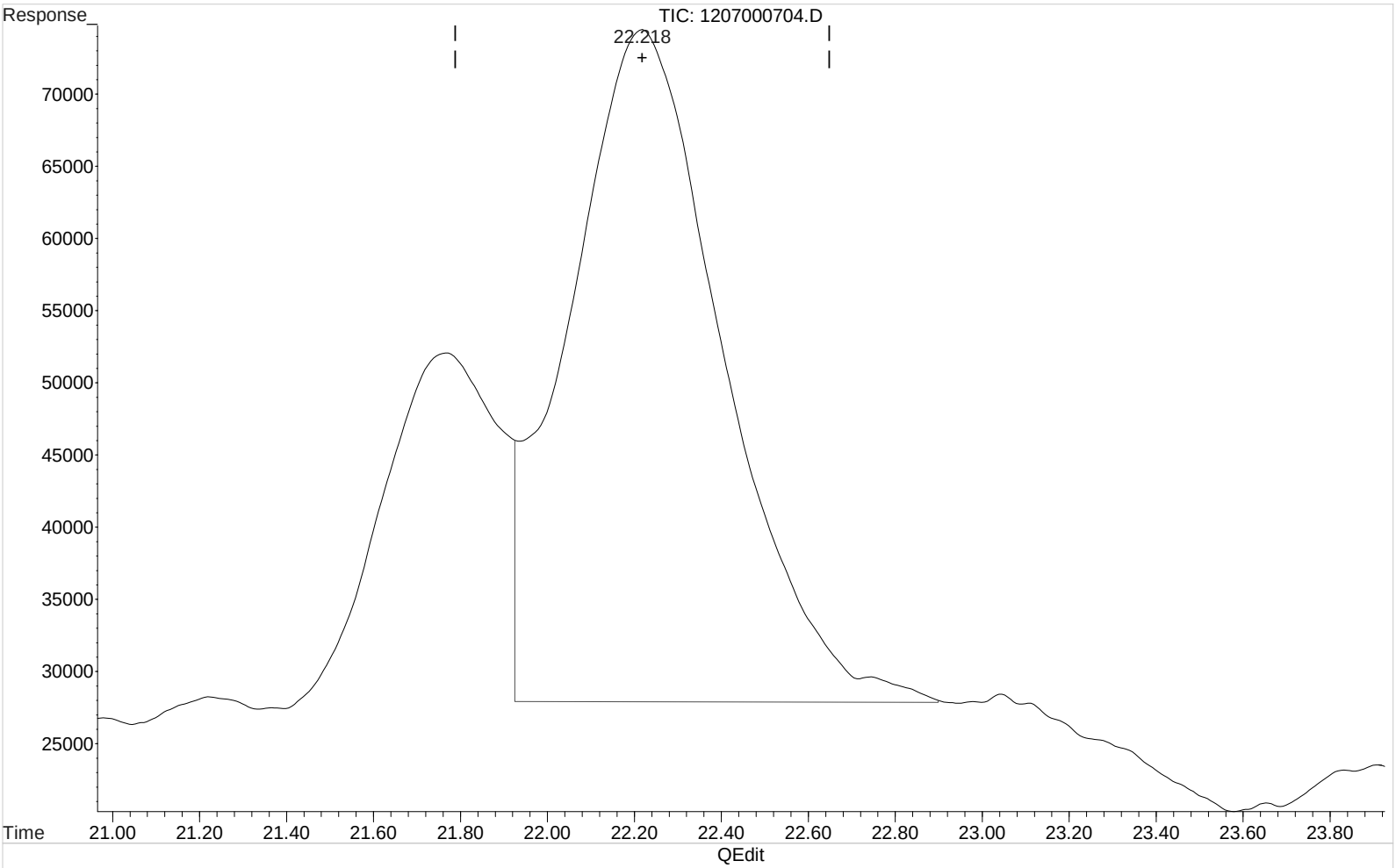
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(14) 2,4-DNT (T)

22.218min 0.000 ug/L m

response 1151614

Manual Integration:

After

BLC

12/08/16

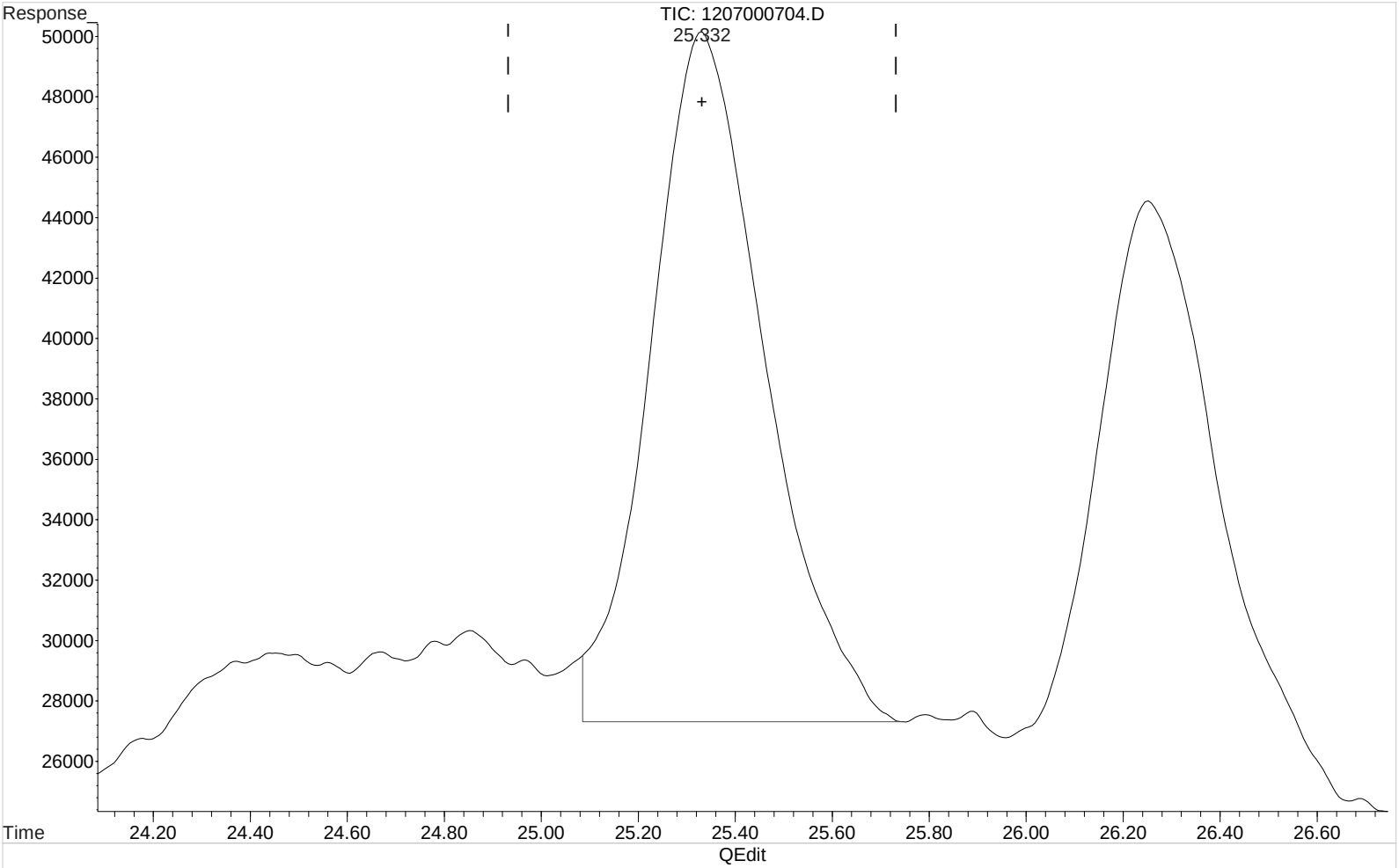
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.332min 0.000 ug/L

response 373720

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

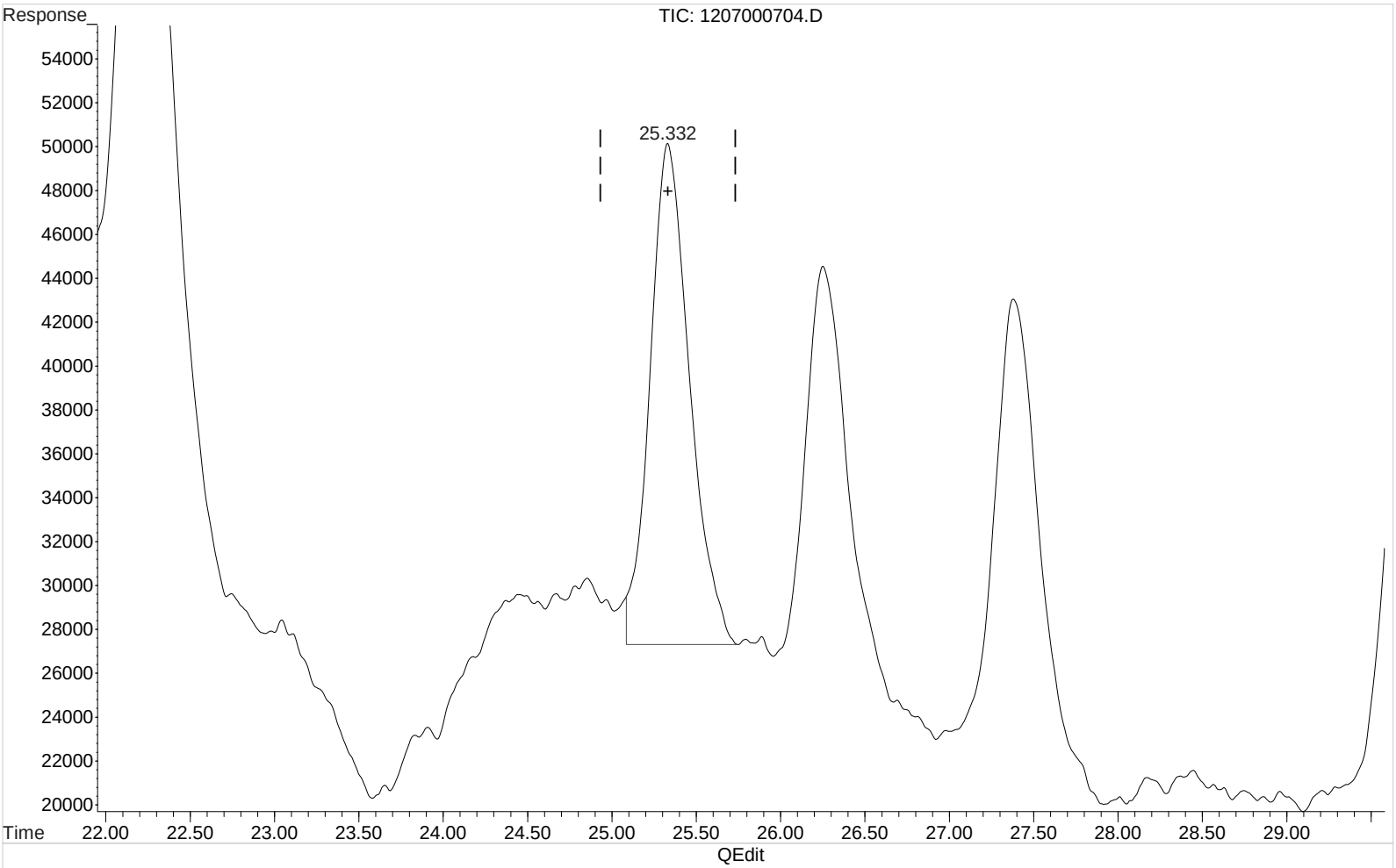
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.332min 0.000 ug/L

response 373720

Manual Integration:

Before

12/08/16

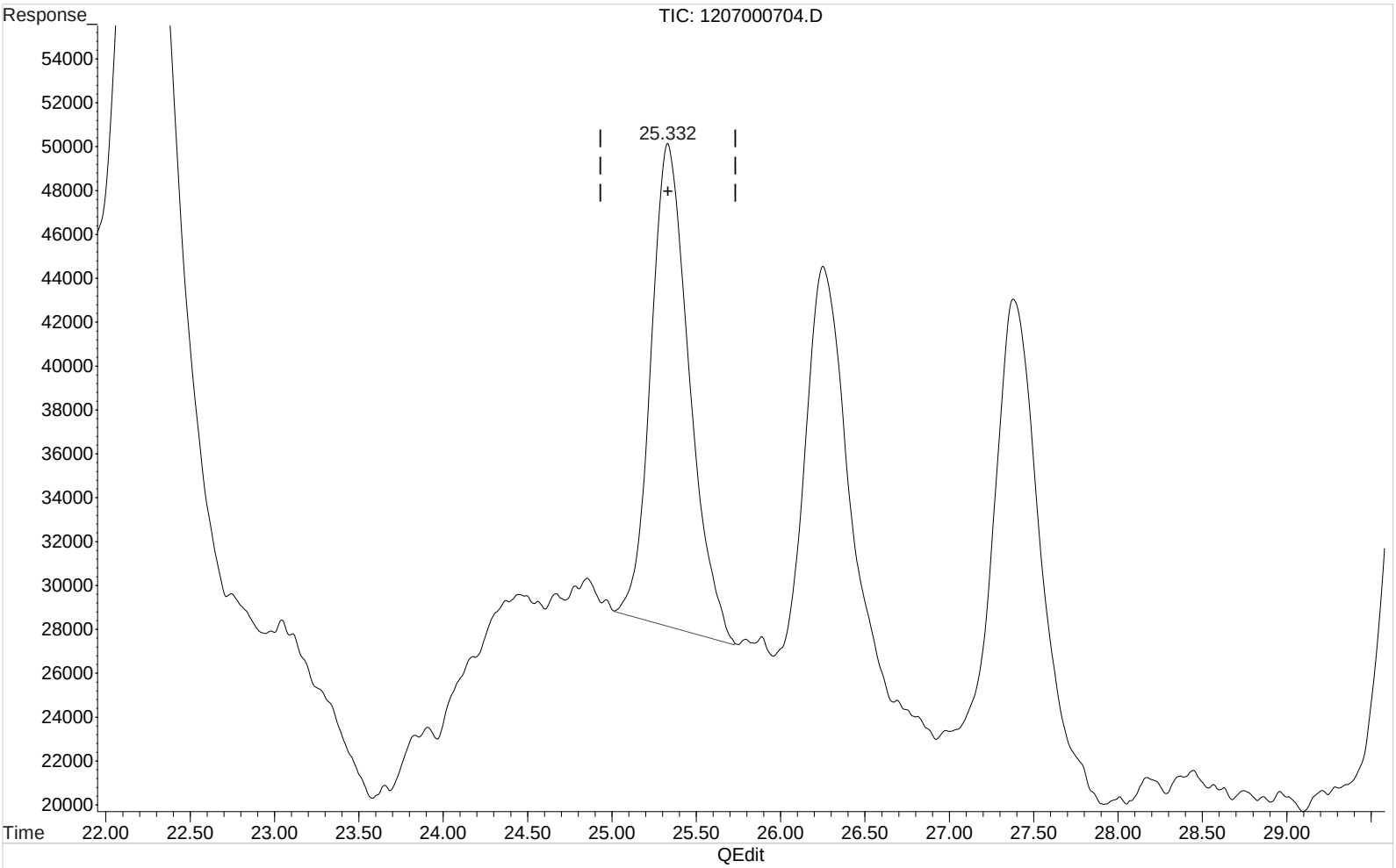
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.332min 0.000 ug/L m

response 349859

Manual Integration:

After

BLC

12/08/16

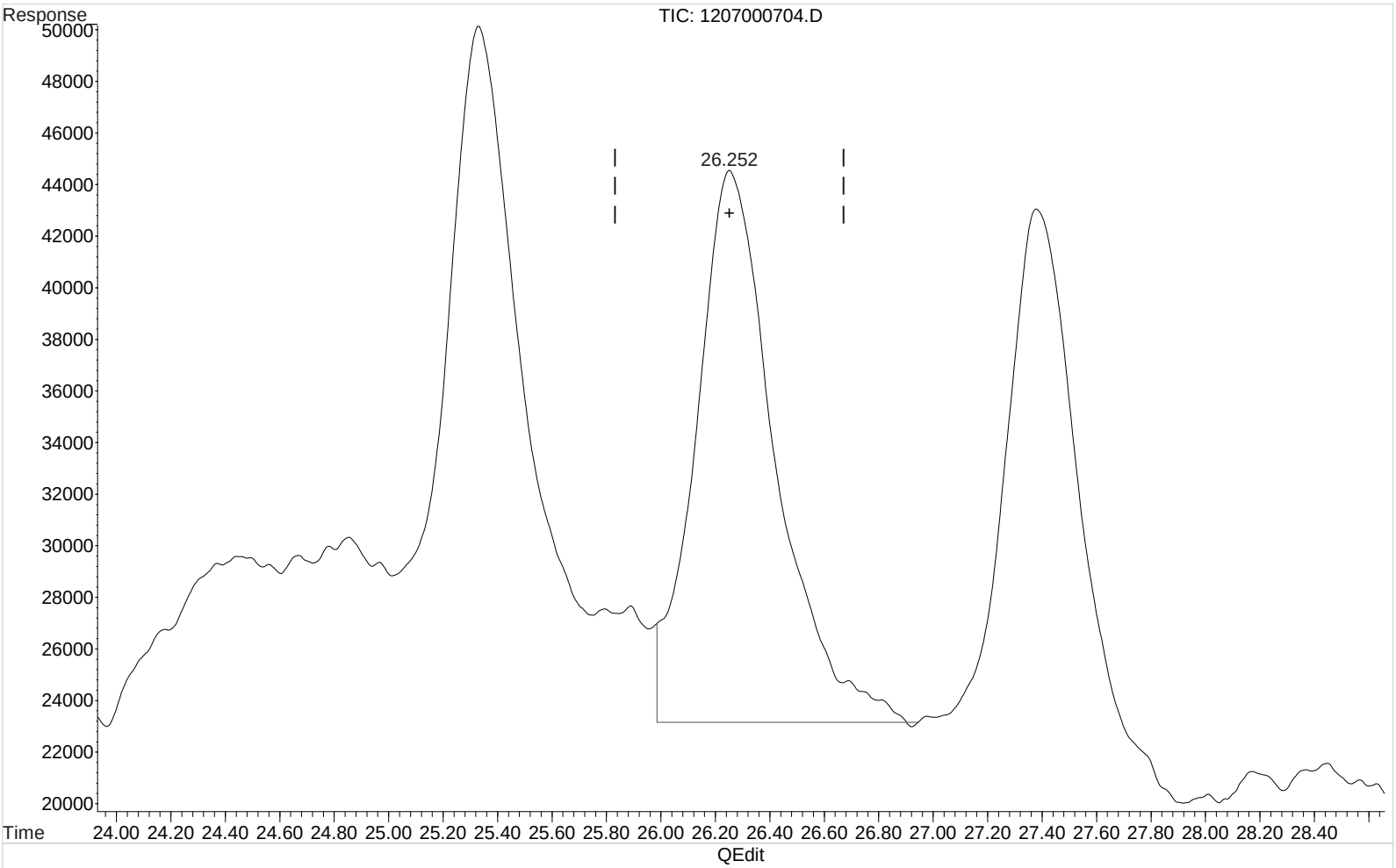
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.252min 0.000 ug/L

response 435478

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

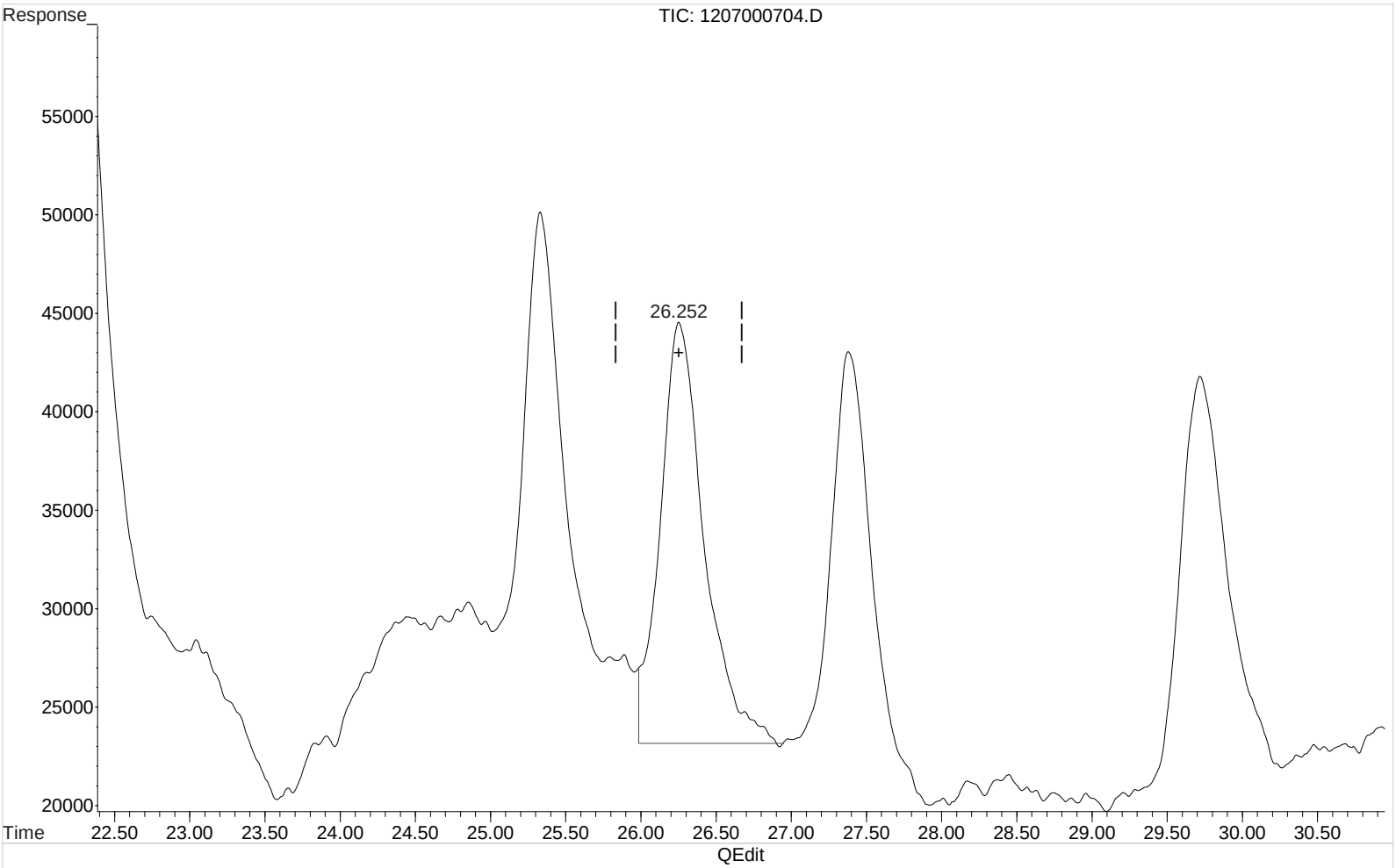
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.252min 0.000 ug/L

response 435478

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

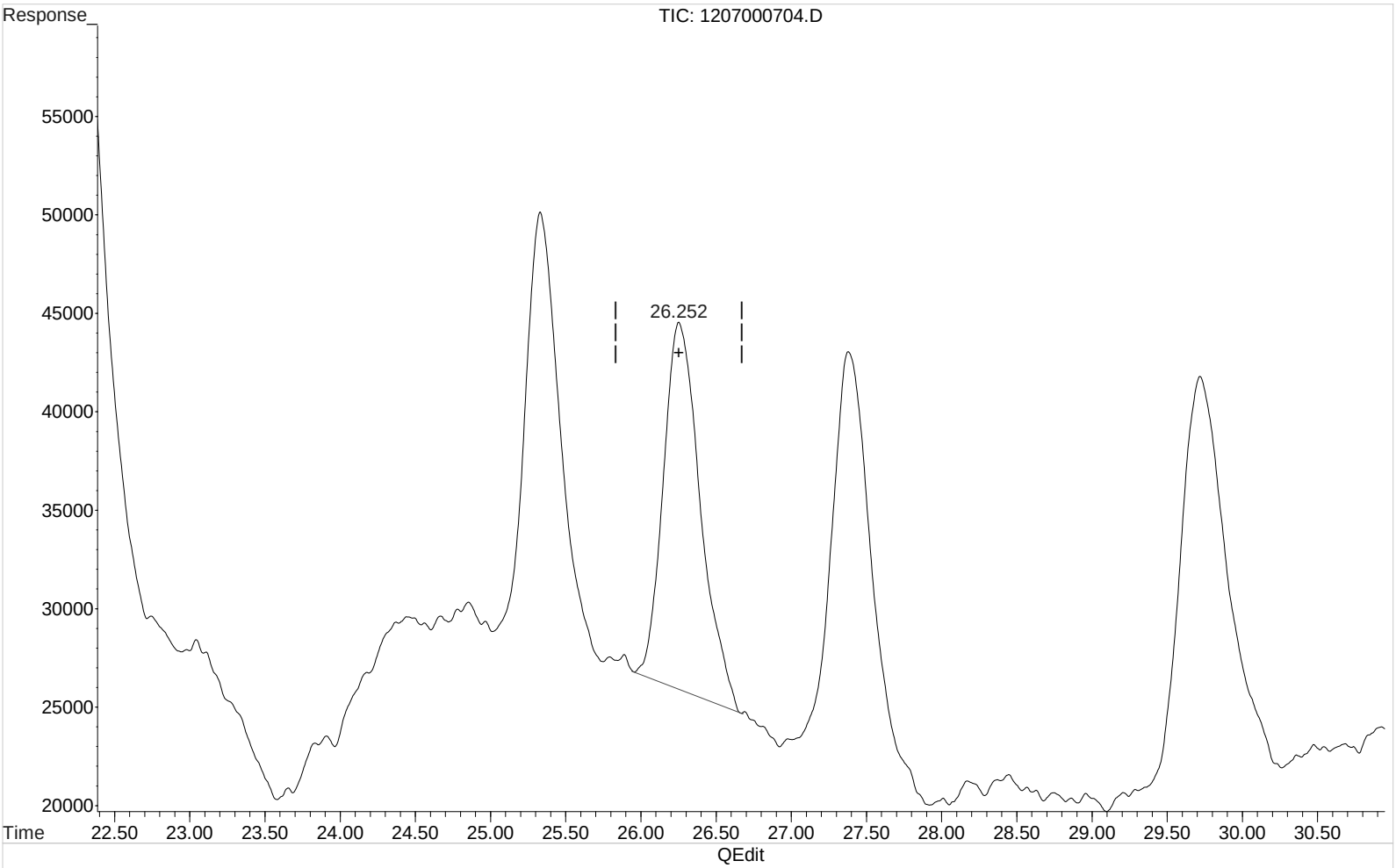
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(16) 4-NT (T)

26.252min 0.000 ug/L m

response 319957

Manual Integration:

After

BLC

12/08/16

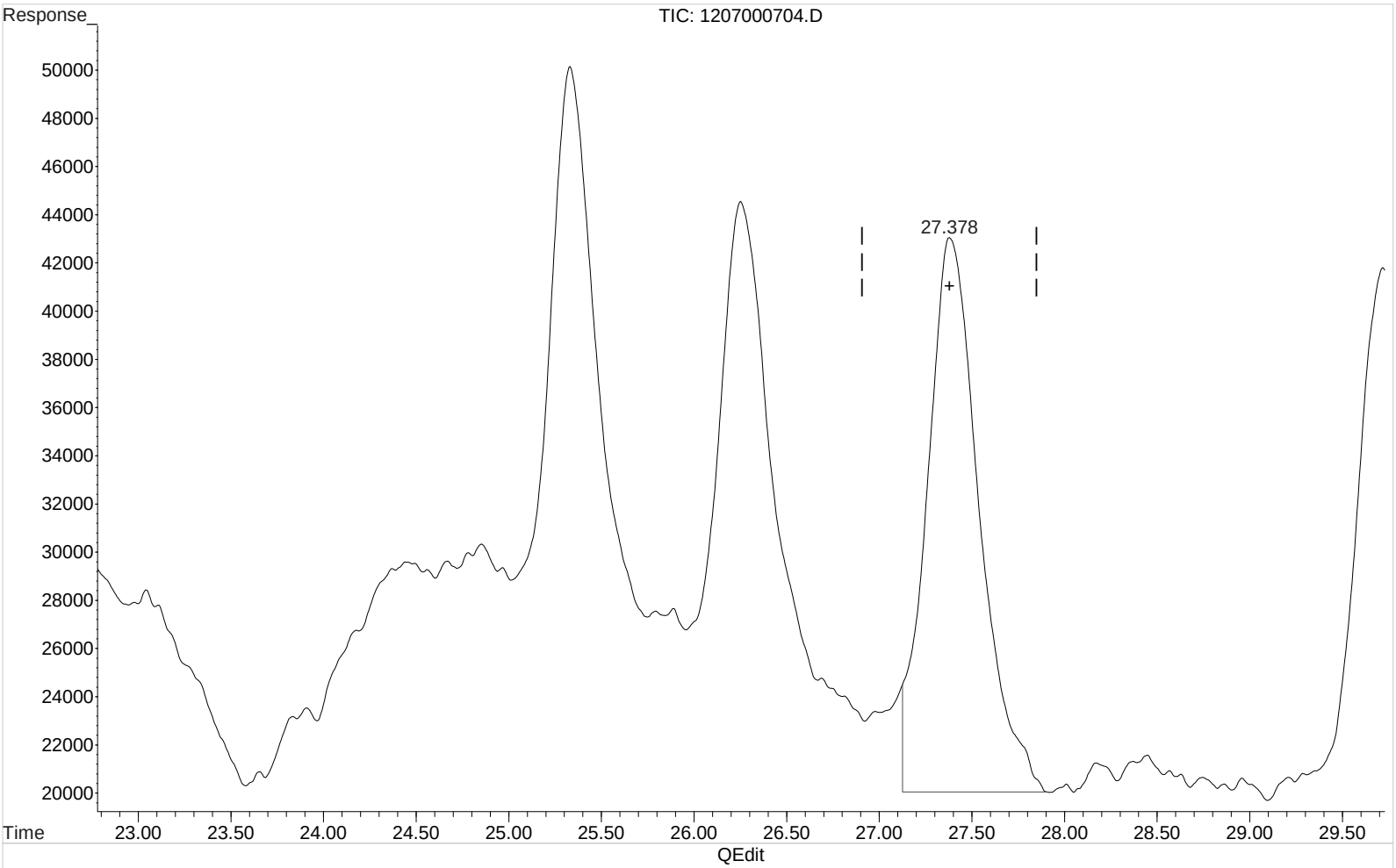
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.378min 0.000 ug/L

response 452684

Manual Integration:

Before

12/08/16

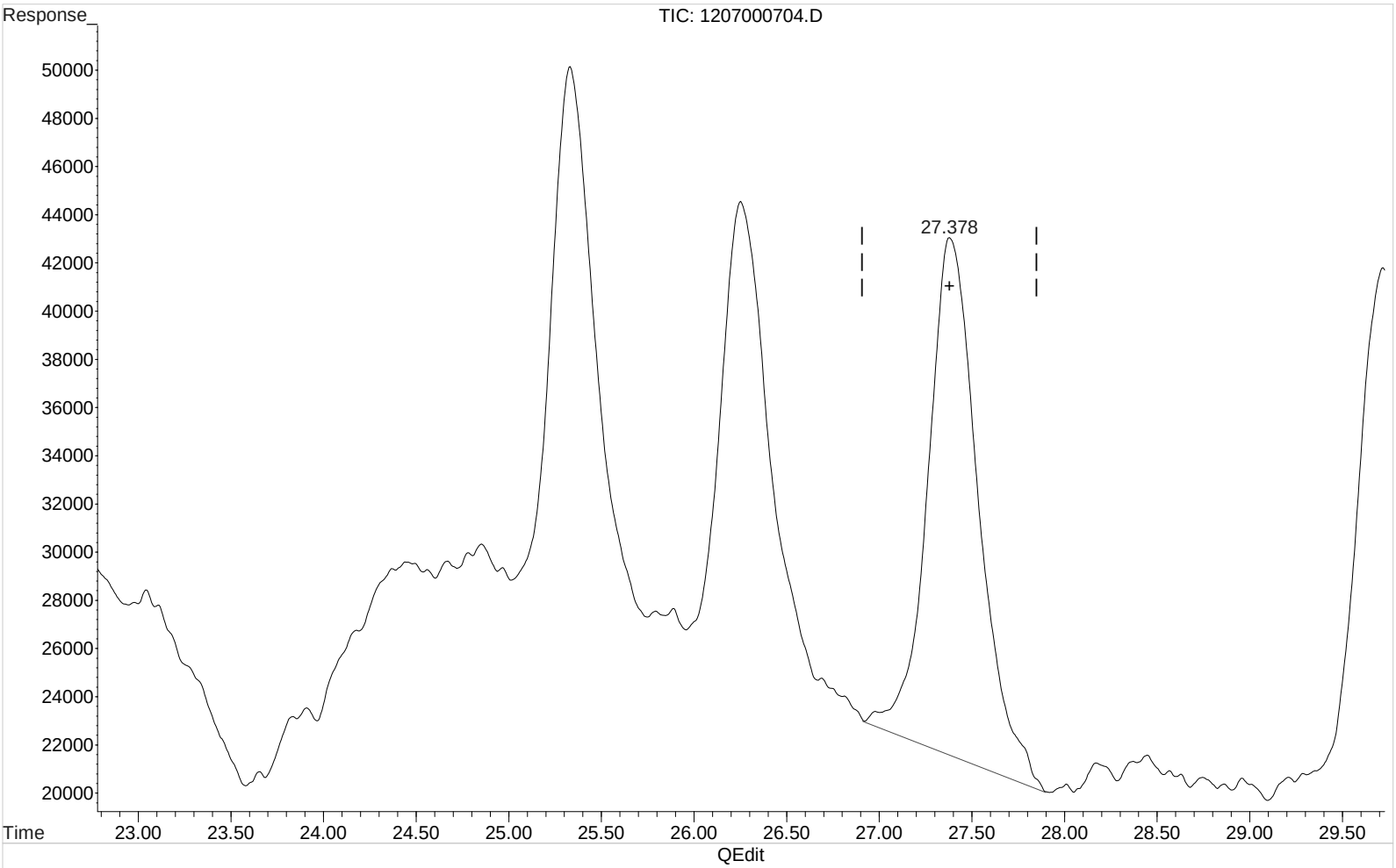
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(17) 3-NT (T)

27.378min 0.000 ug/L m

response 411159

Manual Integration:

After

BLC

12/08/16

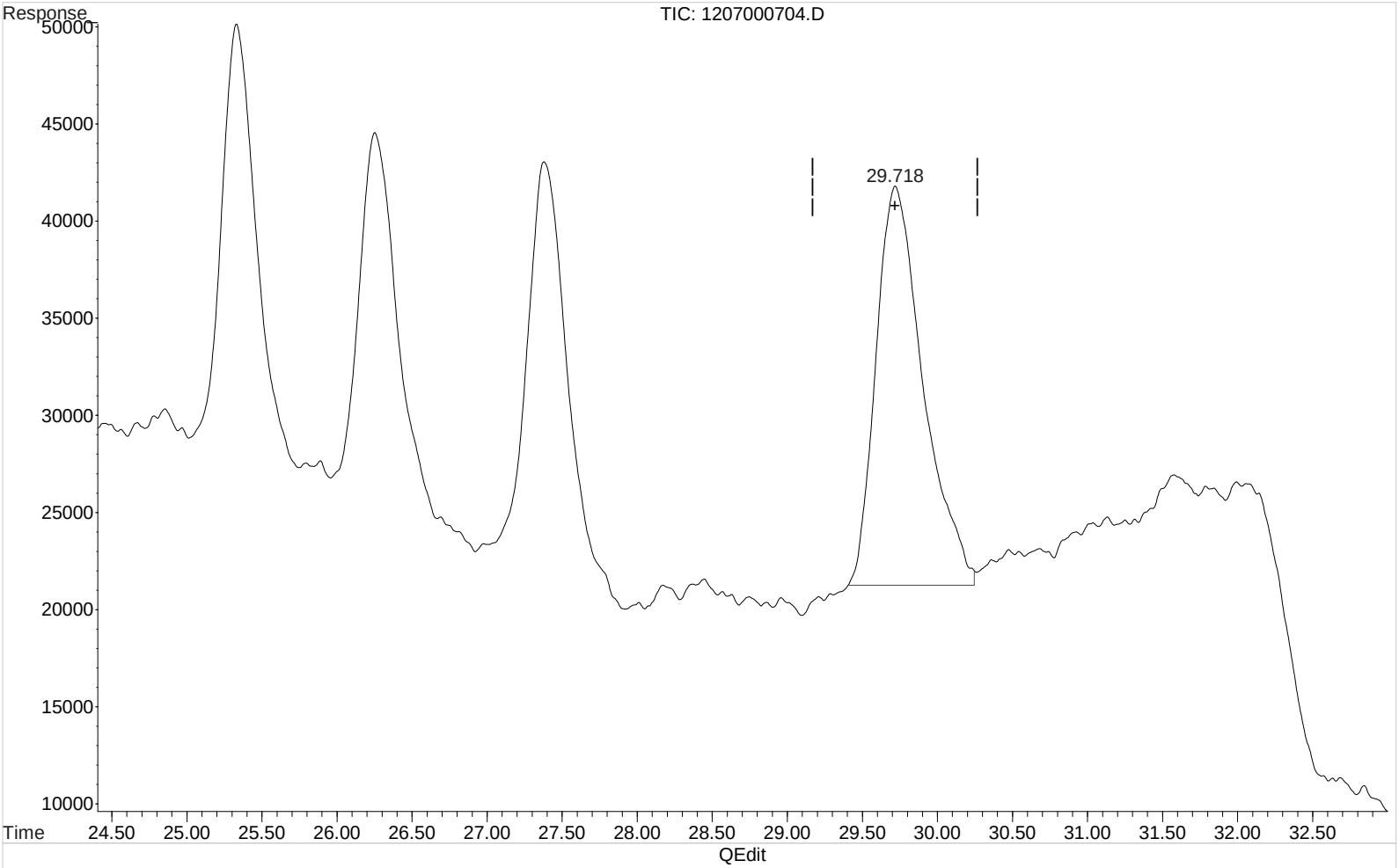
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(18) 1-Chloro-3-Nitrobenzene (S)

29.718min 0.000 ug/L

response 448530

Manual Integration:

Before

12/08/16

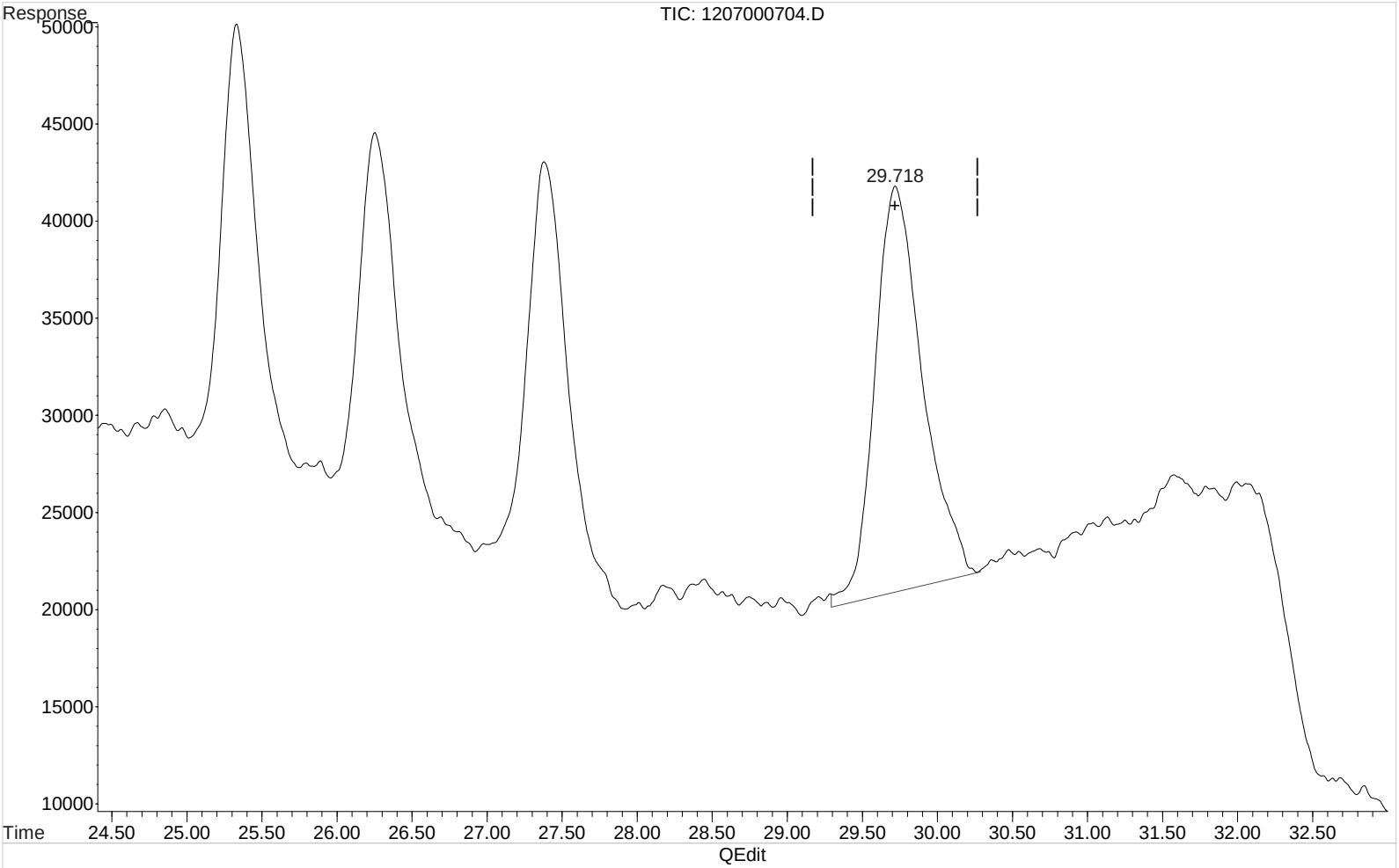
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(18) 1-Chloro-3-Nitrobenzene (S)

29.718min 0.000 ug/L m

response 461332

Manual Integration:

After

BLC

12/08/16

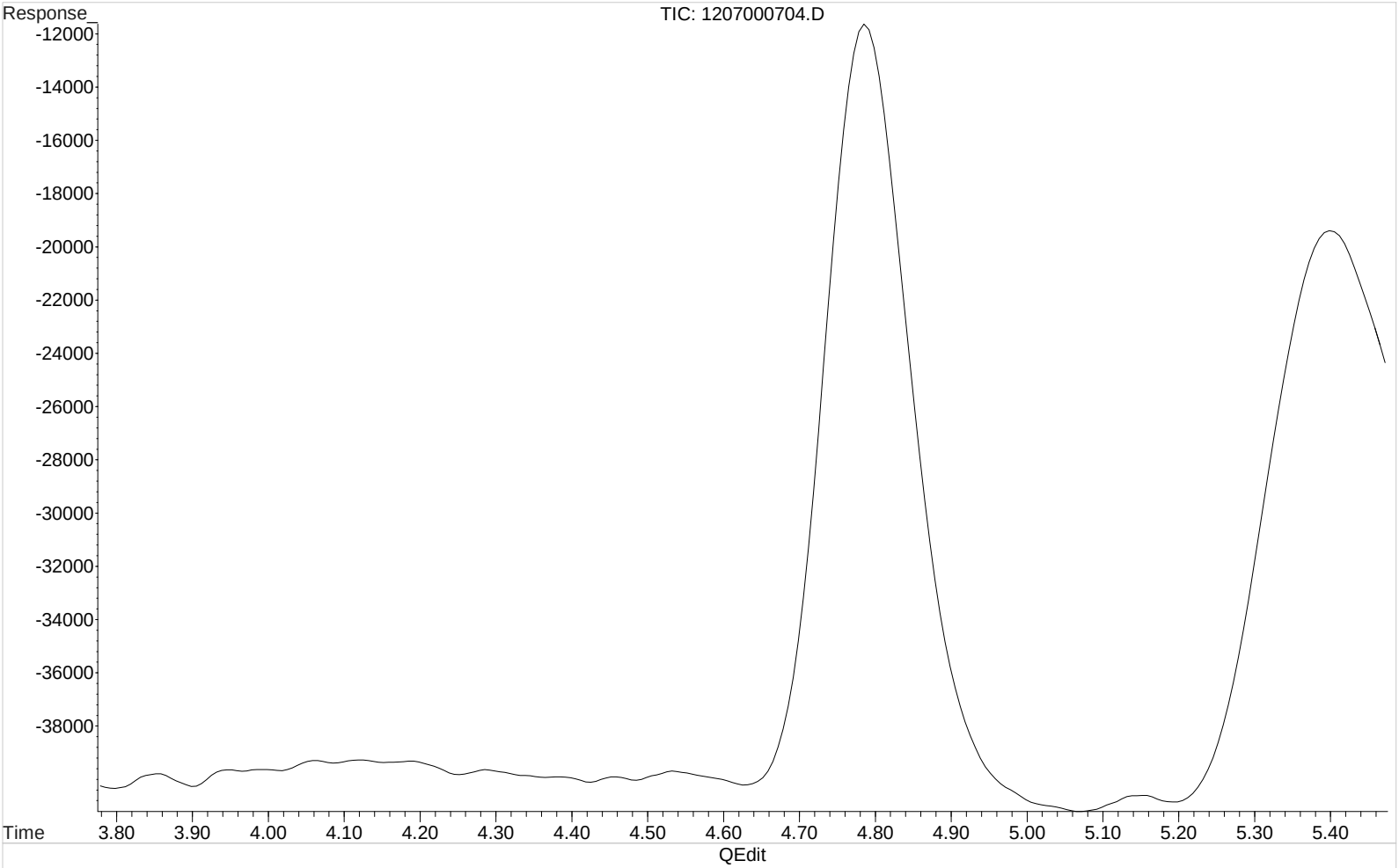
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(2) HMX (T)

4.625min 0.000 ug/L

response 0

Manual Integration:

Before

12/08/16

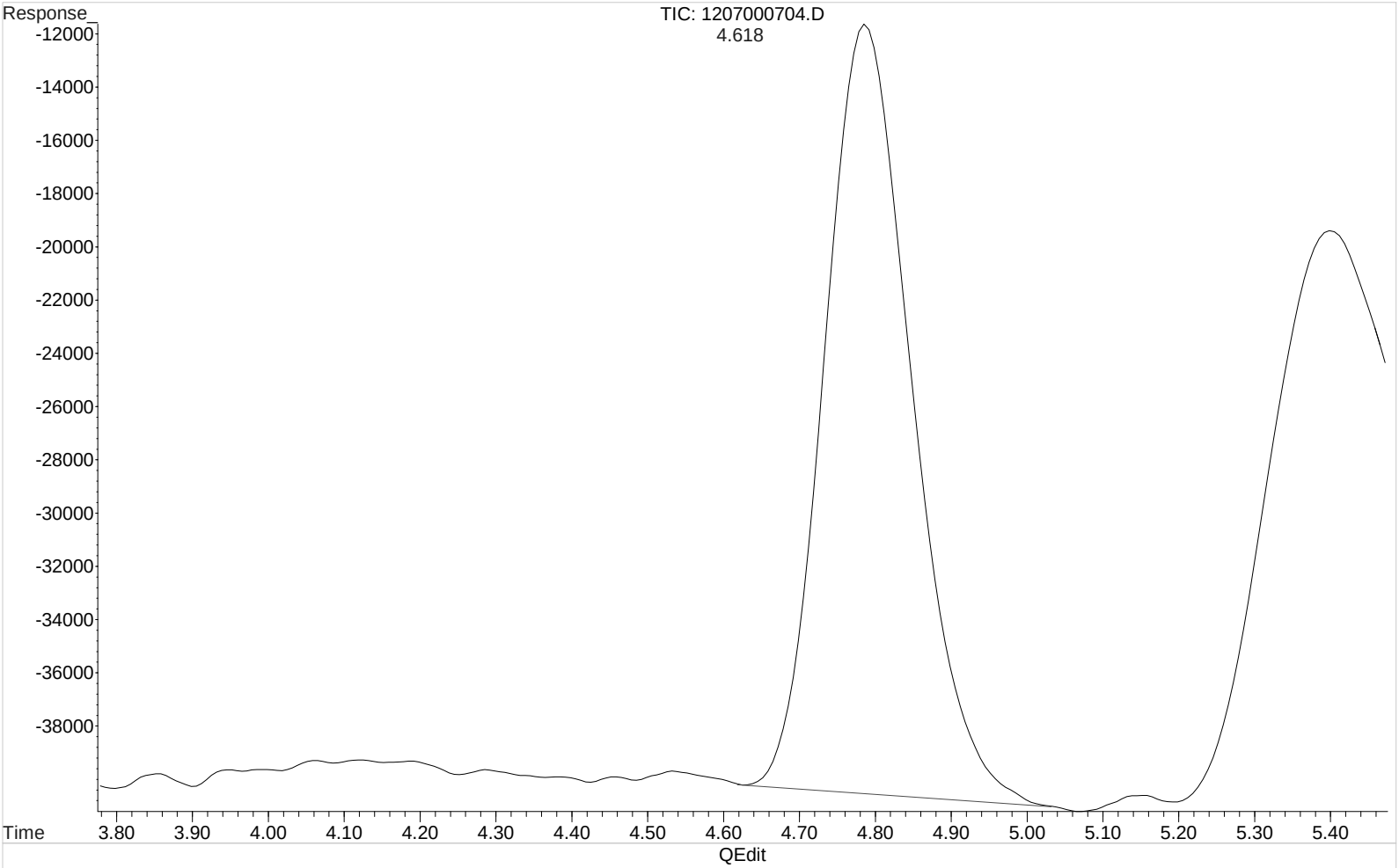
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(2) HMX (T)

4.618min 0.000 ug/L m

response 232698

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

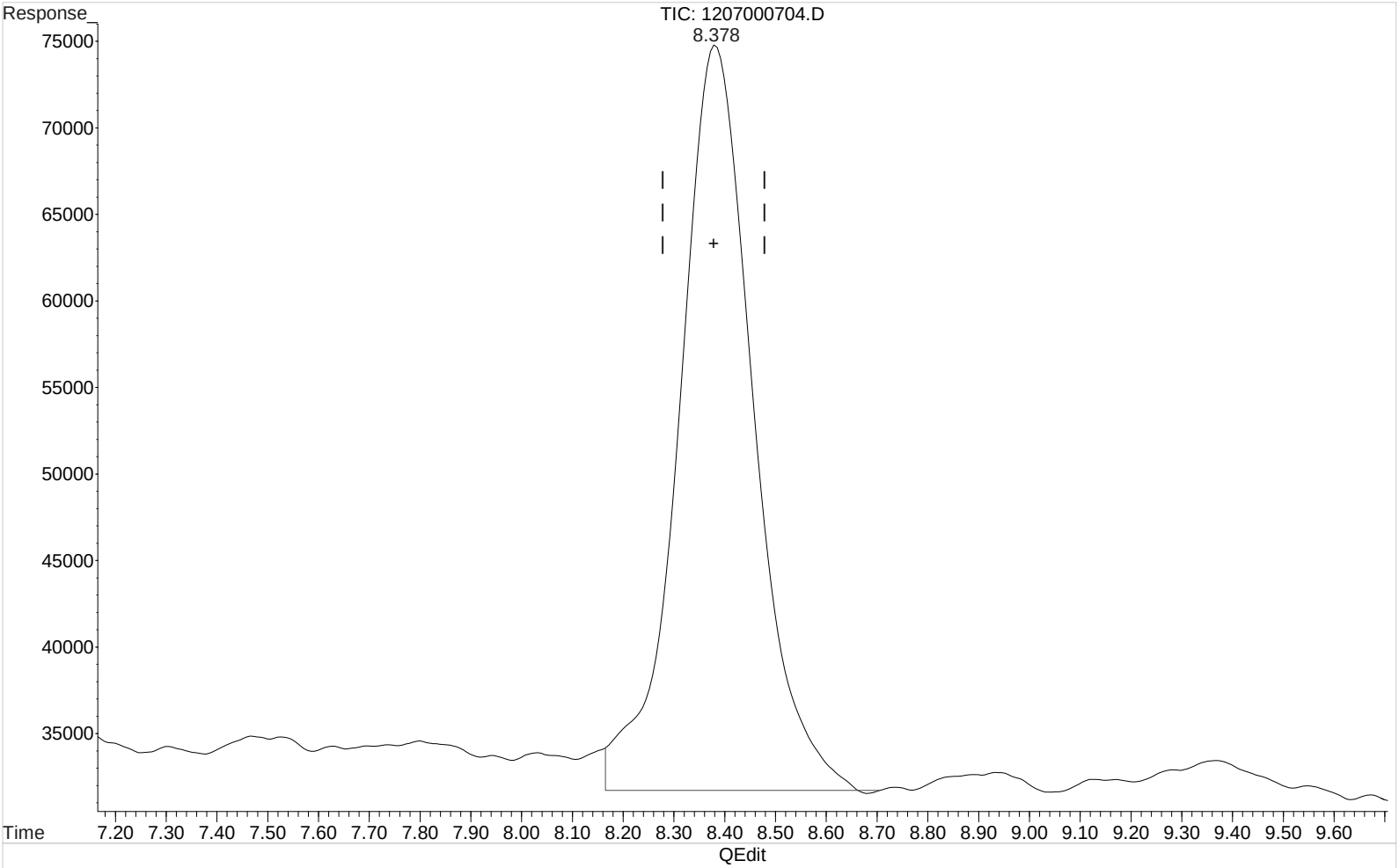
Quantitation Report (Qedit)

(b) (6)
1st 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(4) RDX (T)

8.378min 0.000 ug/L

response 440014

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

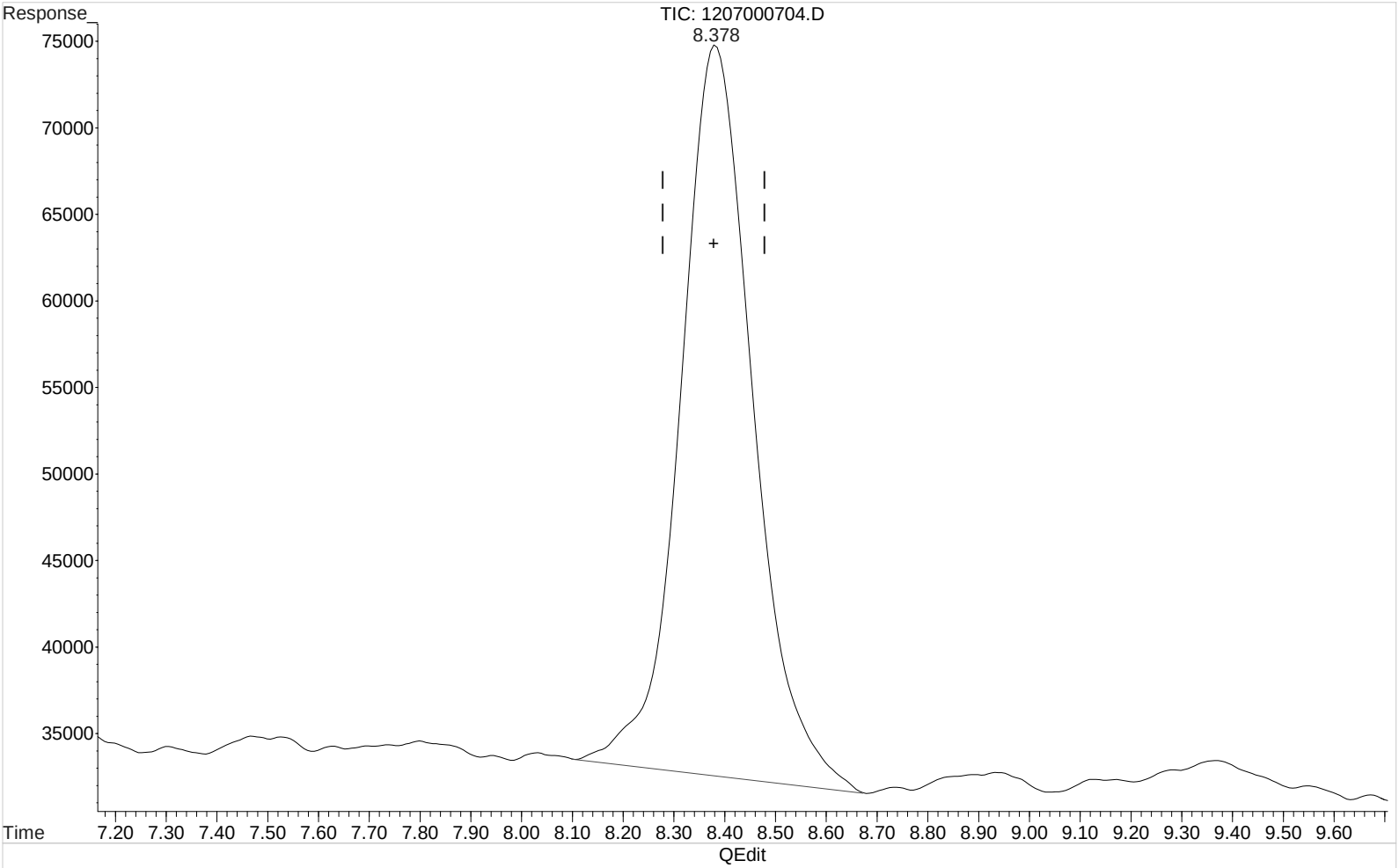
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(4) RDX (T)

8.378min 0.000 ug/L m

response 420328

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

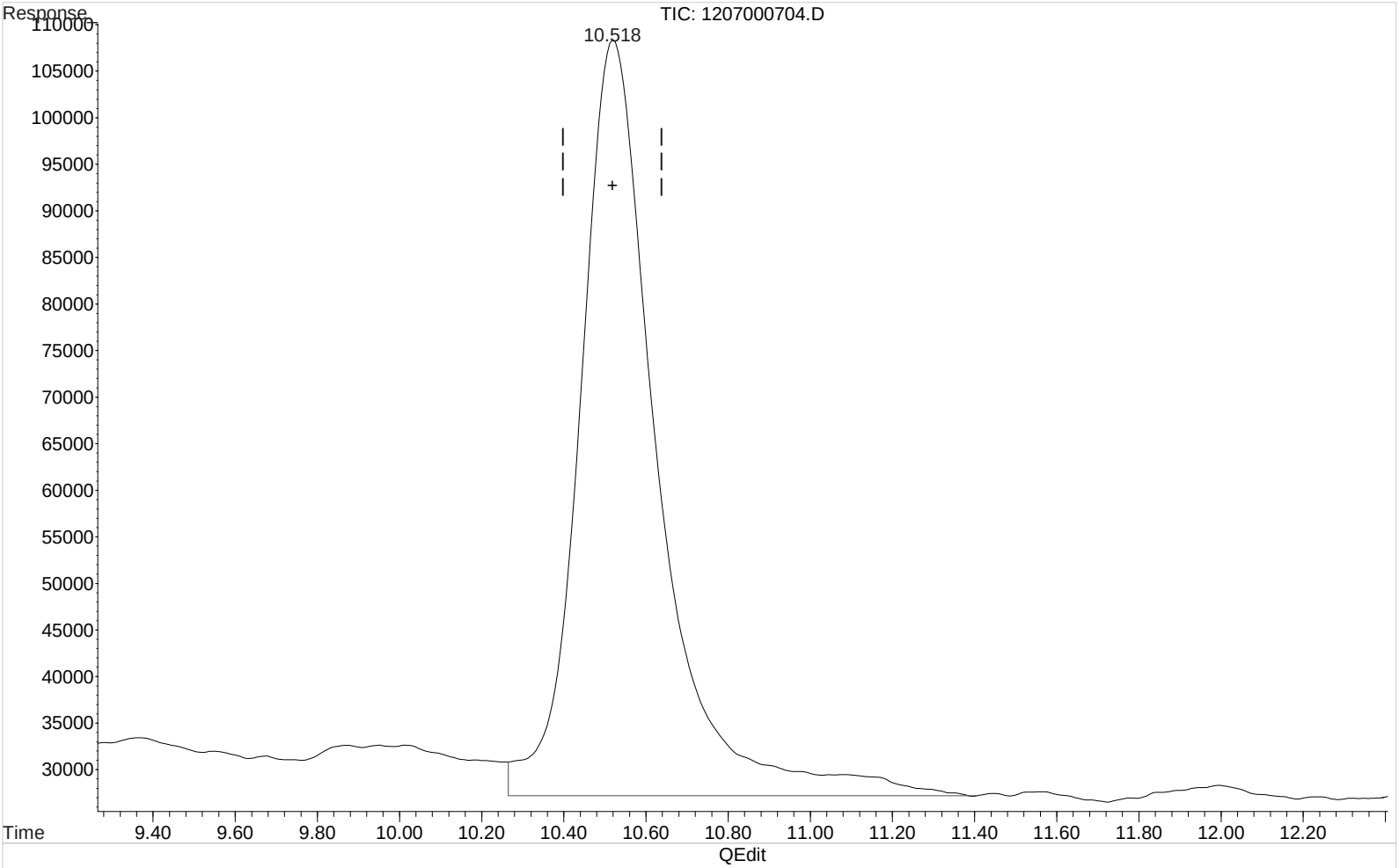
Quantitation Report (Qedit)

1st (b) (6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(5) 1,3,5-TNB (T)

10.518min 0.000 ug/L

response 1075873

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

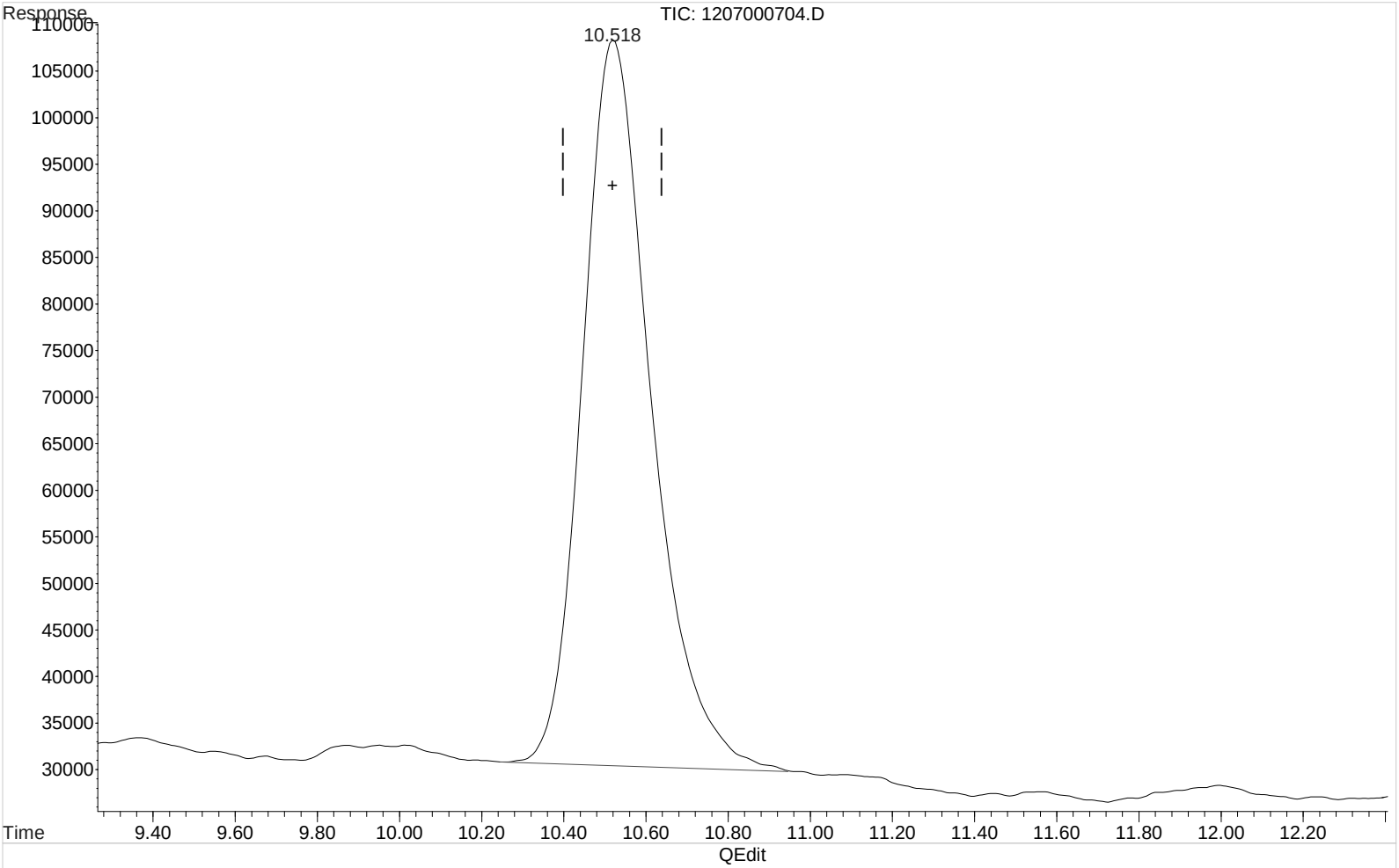
Quantitation Report (Qedit)

1st (b) (6) 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(5) 1,3,5-TNB (T)

10.518min 0.000 ug/L m

response 908690

Manual Integration:

After

BLC

12/08/16

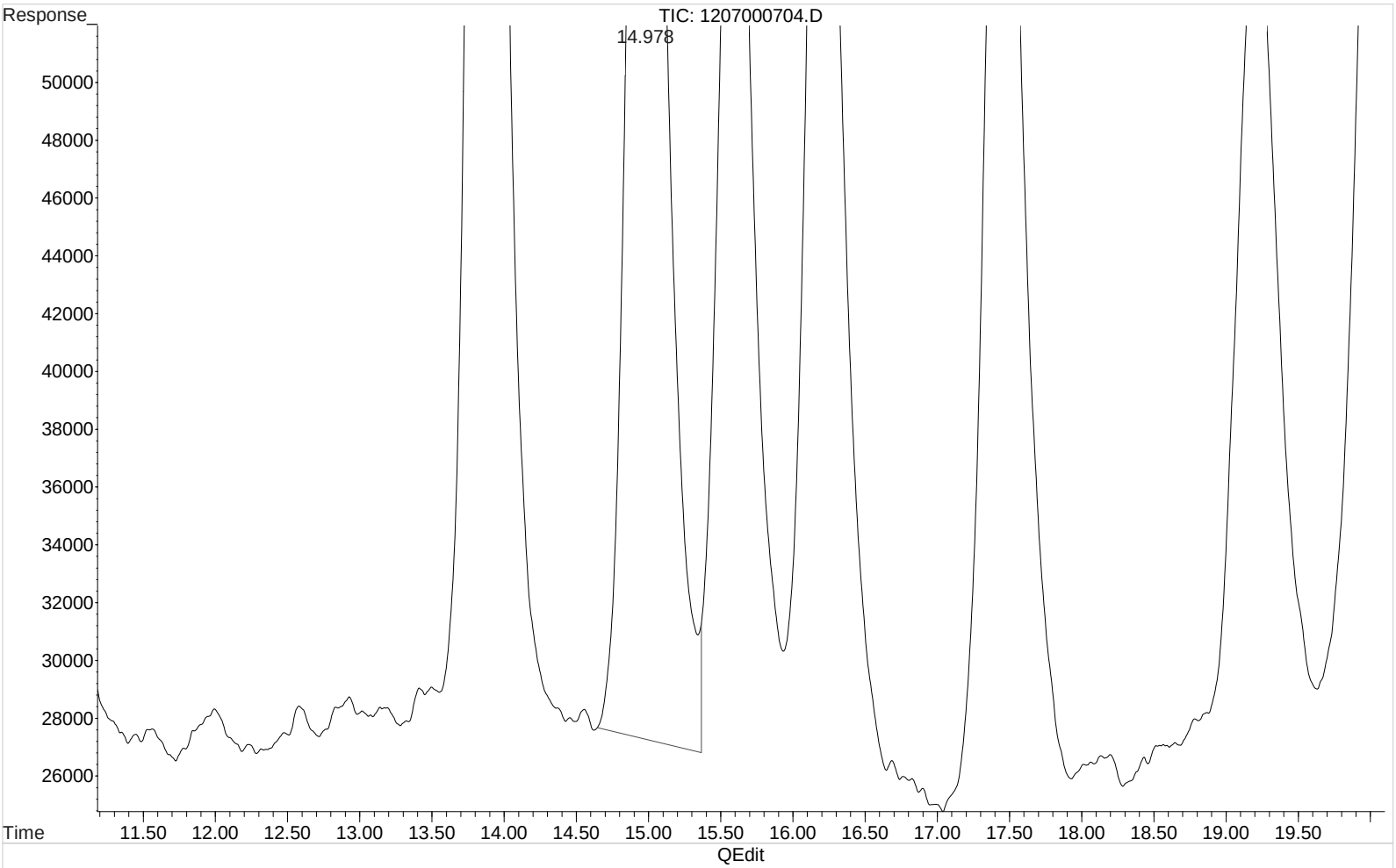
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(7) 3,5-Dinitroaniline (T)

14.978min 0.000 ug/L

response 975452

Manual Integration:

Before

12/08/16

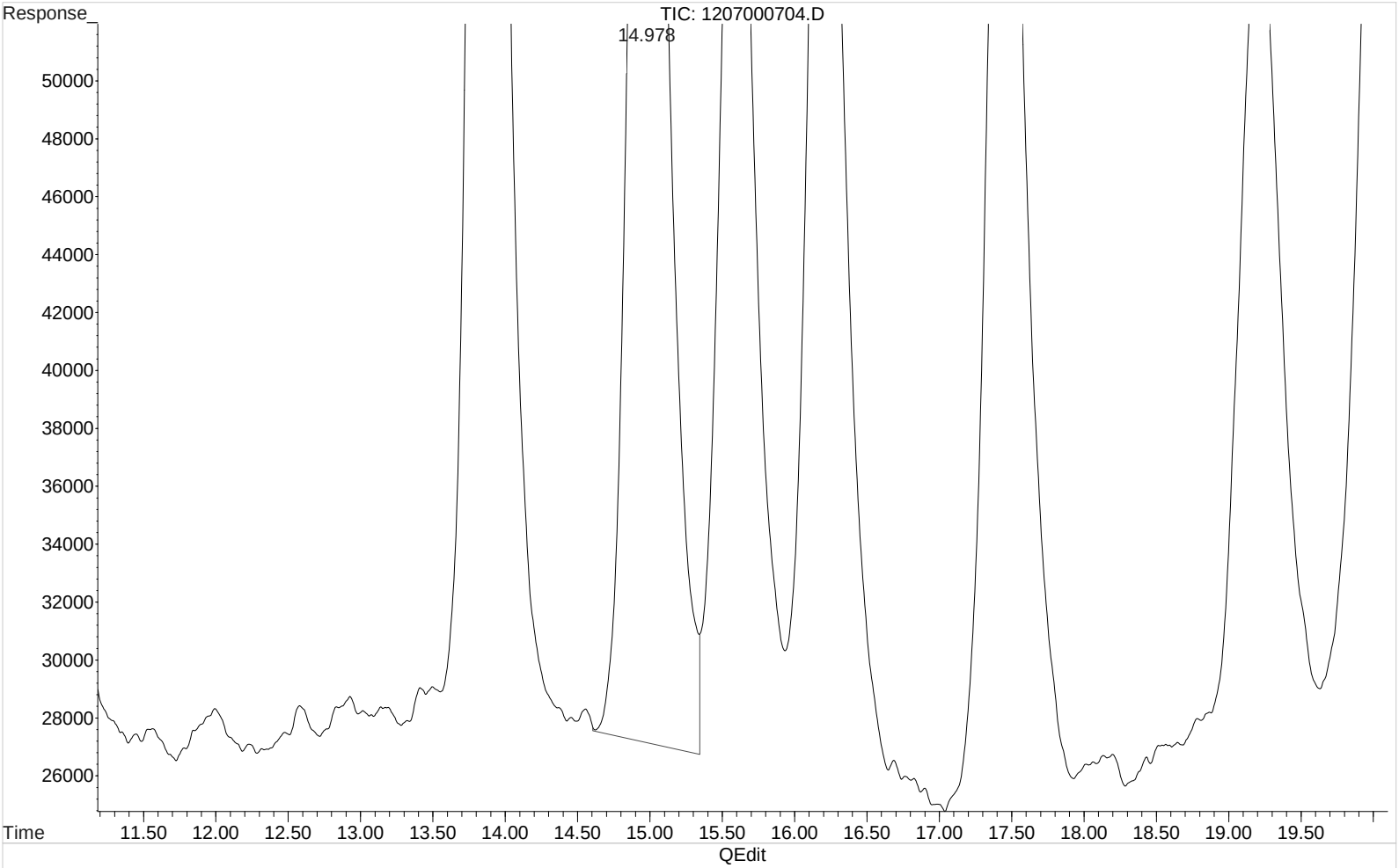
(+) = Expected Retention Time

1st (b) (6) 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.978min 0.000 ug/L m

response 975768

Manual Integration:

After

BLC

12/08/16

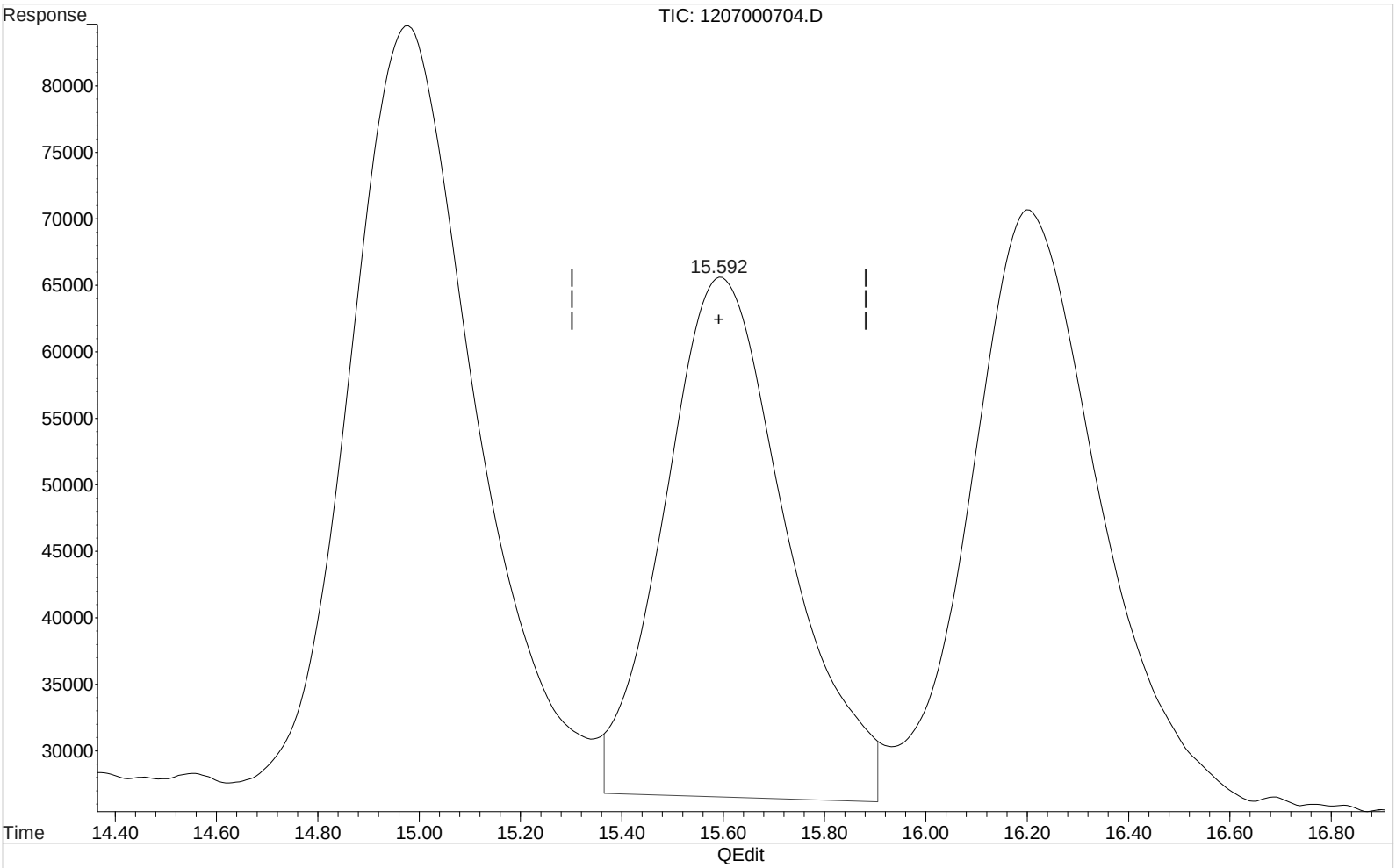
(+) = Expected Retention Time

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.592min 0.000 ug/L

response 653235

Manual Integration:

Before

12/08/16

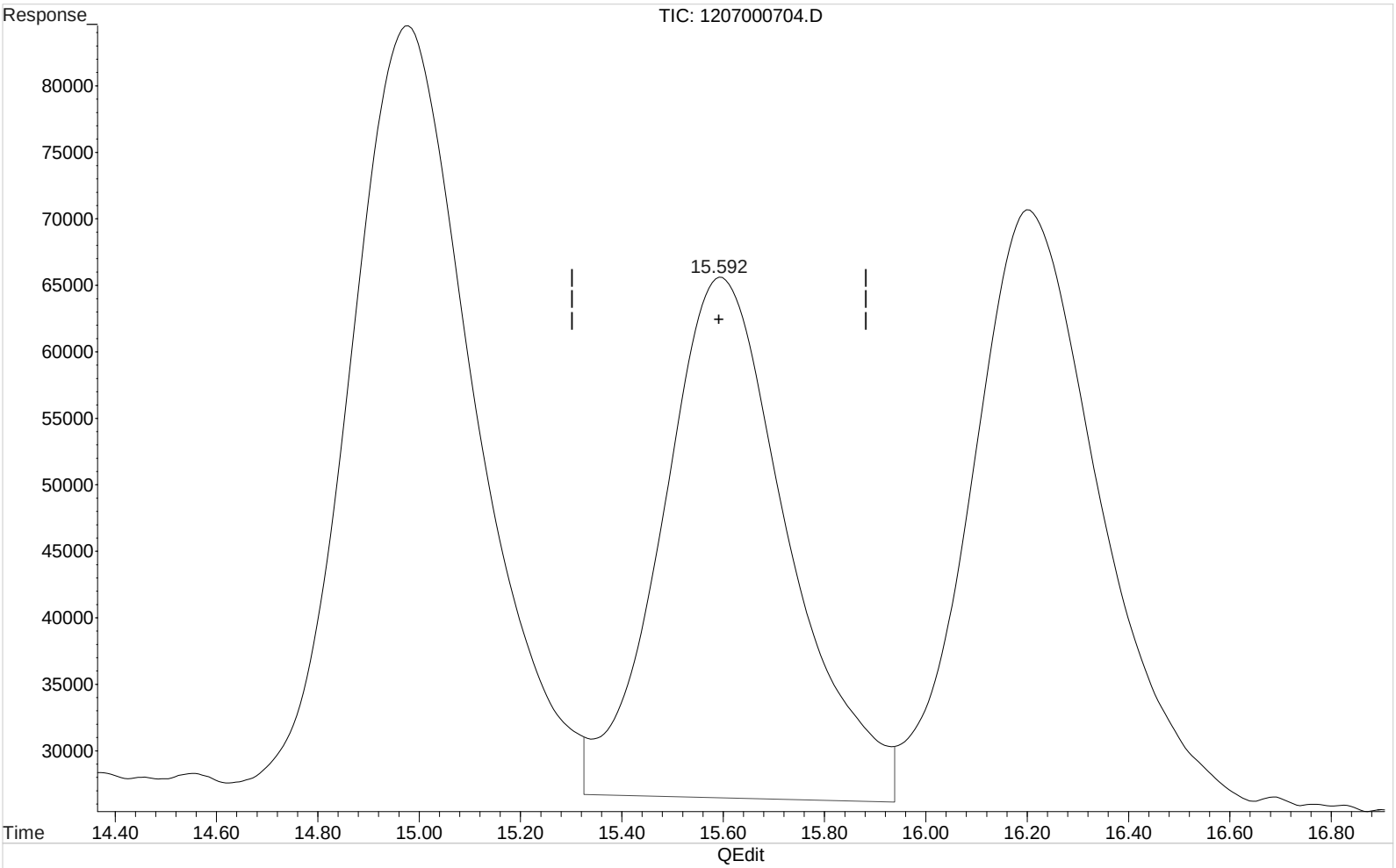
(+) = Expected Retention Time

1st (b) (6) 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.592min 0.000 ug/L m

response 673809

Manual Integration:

After

BLC

12/08/16

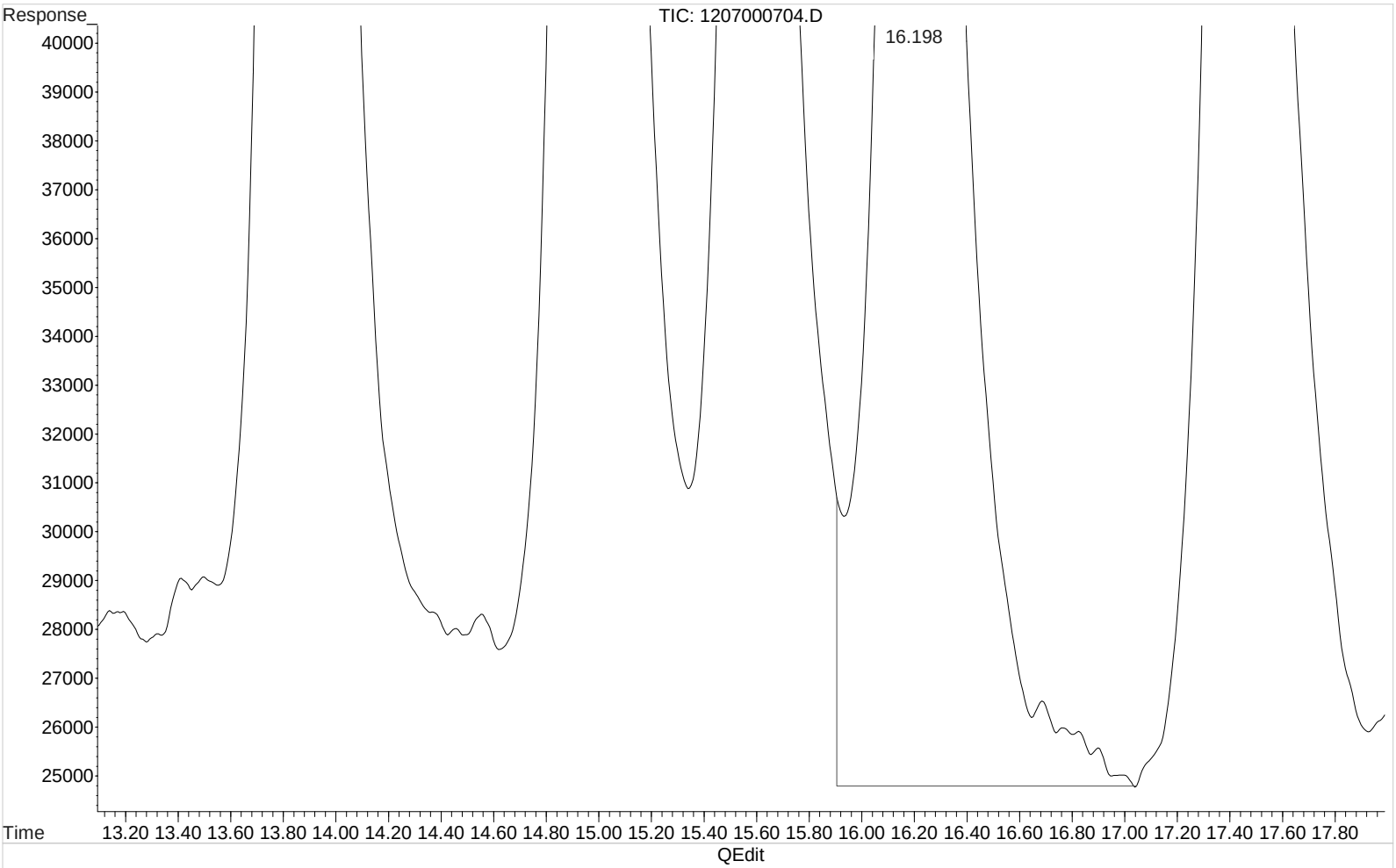
(+) = Expected Retention Time

1st (b) (6) 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(9) Nitrobenzene (T)

16.198min 0.000 ug/L

response 865148

Manual Integration:

Before

12/08/16

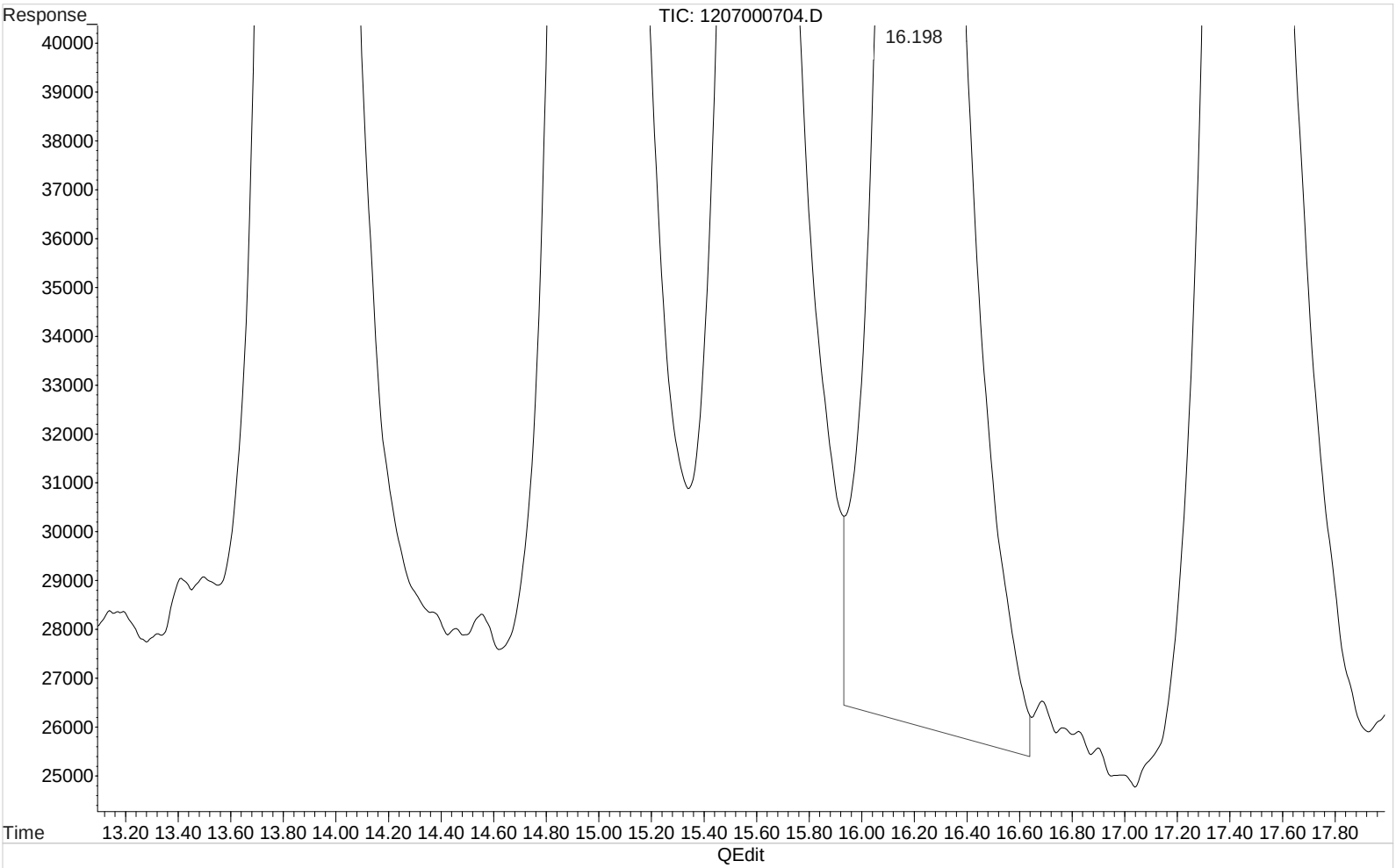
(+) = Expected Retention Time

1st (b) (6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(9) Nitrobenzene (T)

16.198min 0.000 ug/L m

response 787874

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:09 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
18) S	1-Chloro-3-Nitrobenzene	29.700	1102787	47.809	ug/L	m
	Target Compounds					
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2) T	HMX	4.787	592400	50.916	ug/L	m
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4) T	RDX	8.380	978940	46.580	ug/L	m
5) T	1,3,5-TNB	10.520	2272781	50.023	ug/L	
6) T	1,3-DNB	13.860	3069012	48.773	ug/L	m
7) T	3,5-Dinitroaniline	14.967	2382128	48.826	ug/L	m
8) T	Tetryl	15.587	1676426	49.760	ug/L	m
9) T	Nitrobenzene	16.200	1950750	49.519	ug/L	m
10) T	2,4,6-TNT	17.447	2100866	52.688	ug/L	m
11) T	4-Amino-2,6-DNT	19.200	1535717	57.134	ug/L	m
12) T	2-Amino-4,6-DNT	20.034	2085917	43.852	ug/L	m
13) T	2,6-DNT	21.760	1280625	NoCal	ug/L	m
14) T	2,4-DNT	22.214	2955148	51.322	ug/L	m
15) T	2-NT	25.327	912402	52.158	ug/L	m
16) T	4-NT	26.254	806643	50.422	ug/L	m
17) T	3-NT	27.380	982059	47.770	ug/L	m

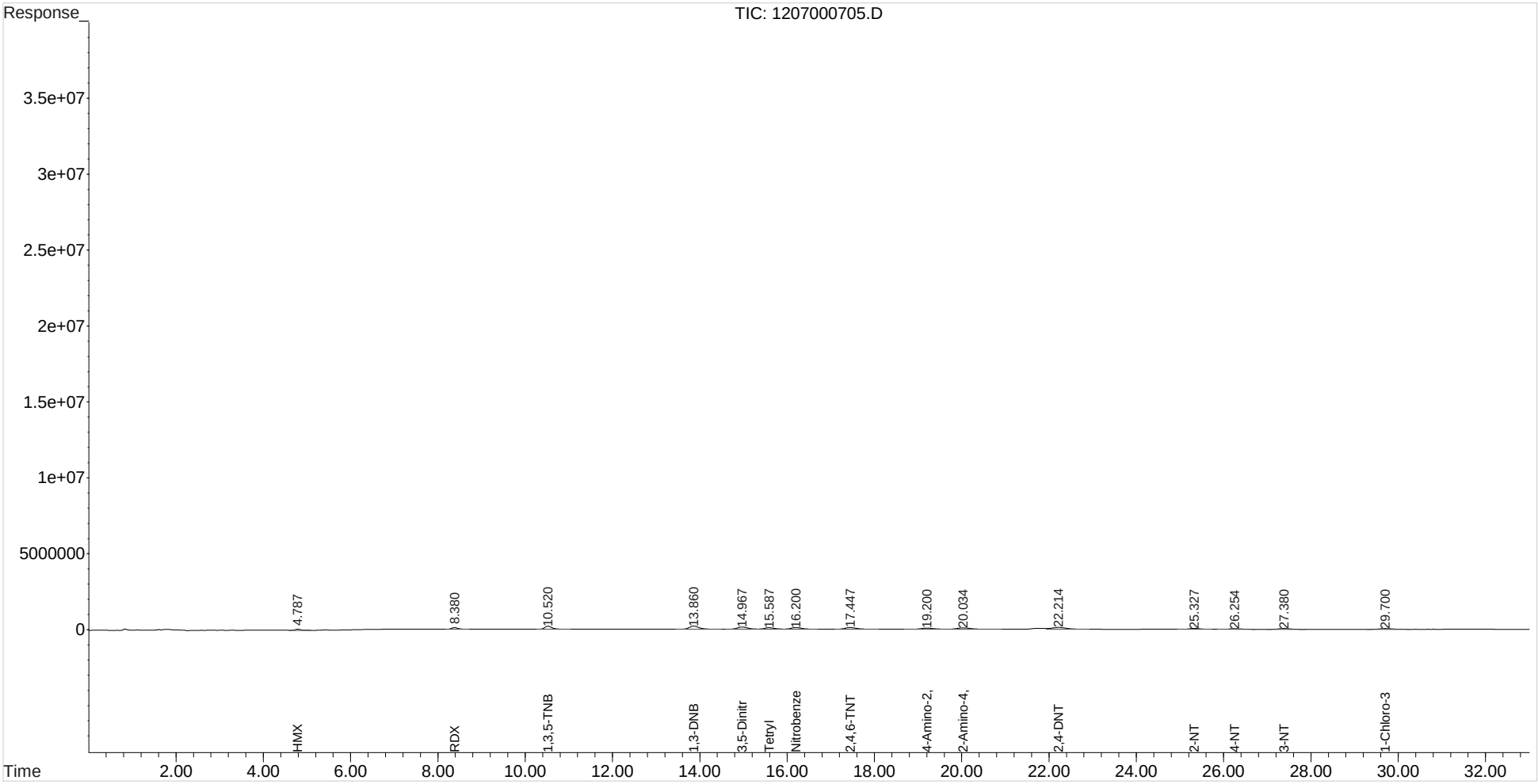
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:09 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

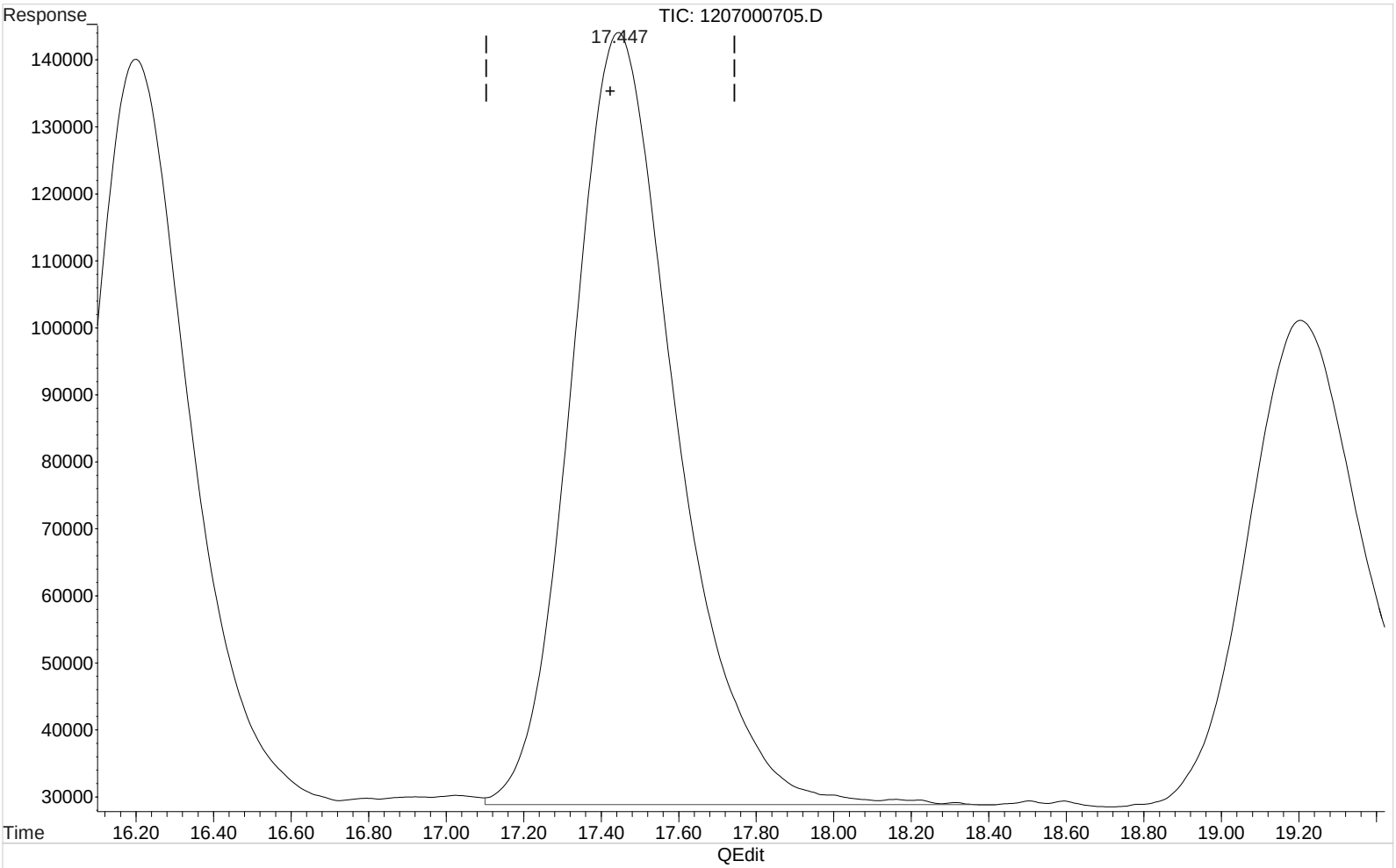


(b) (6)
1st 12/08/16
2n 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(10) 2,4,6-TNT (T)

17.447min 54.187 ug/L

response 2160666

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b)(6)

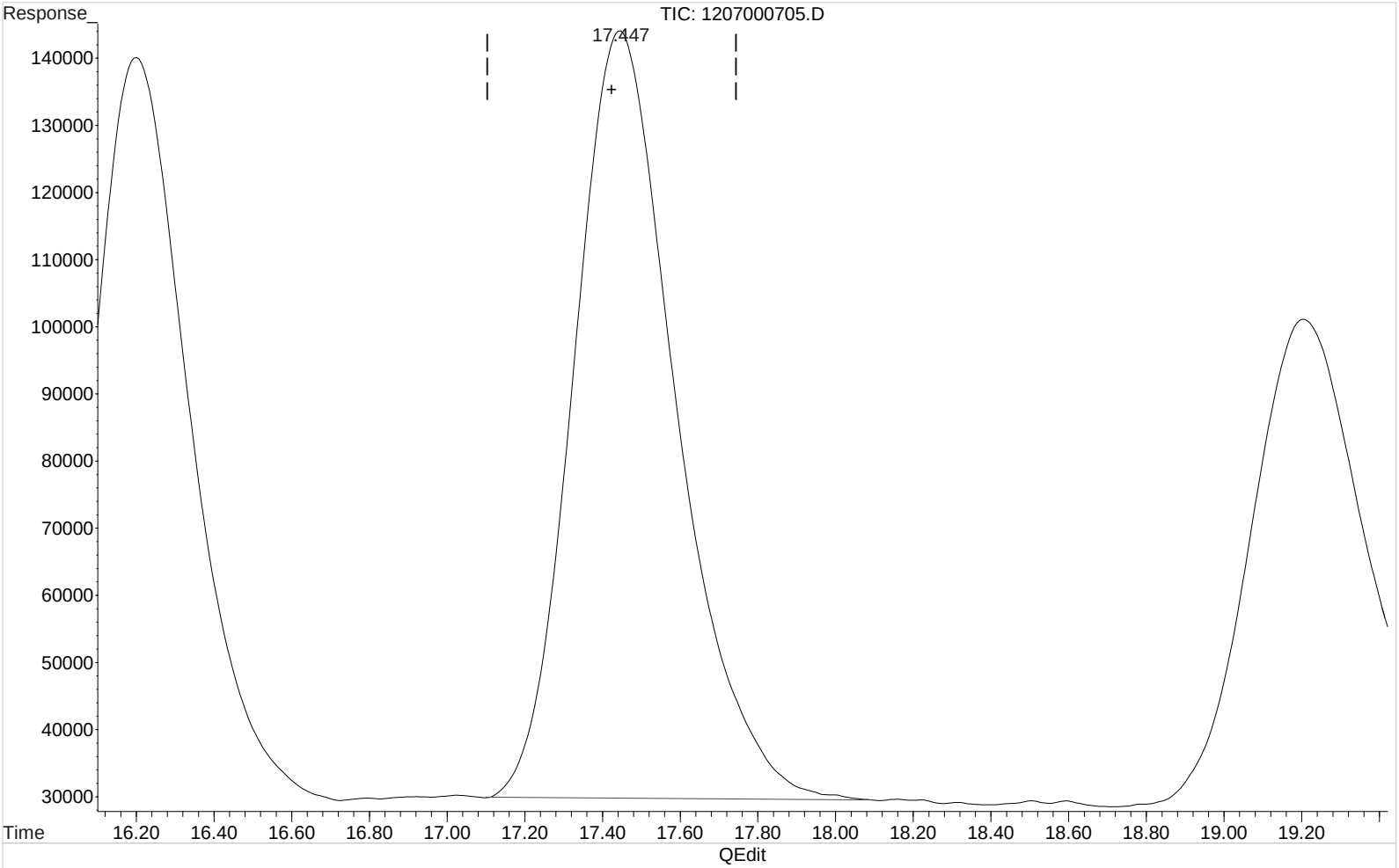
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(10) 2,4,6-TNT (T)

17.447min 52.688 ug/L m

response 2100866

Manual Integration:

After

BLC

12/08/16

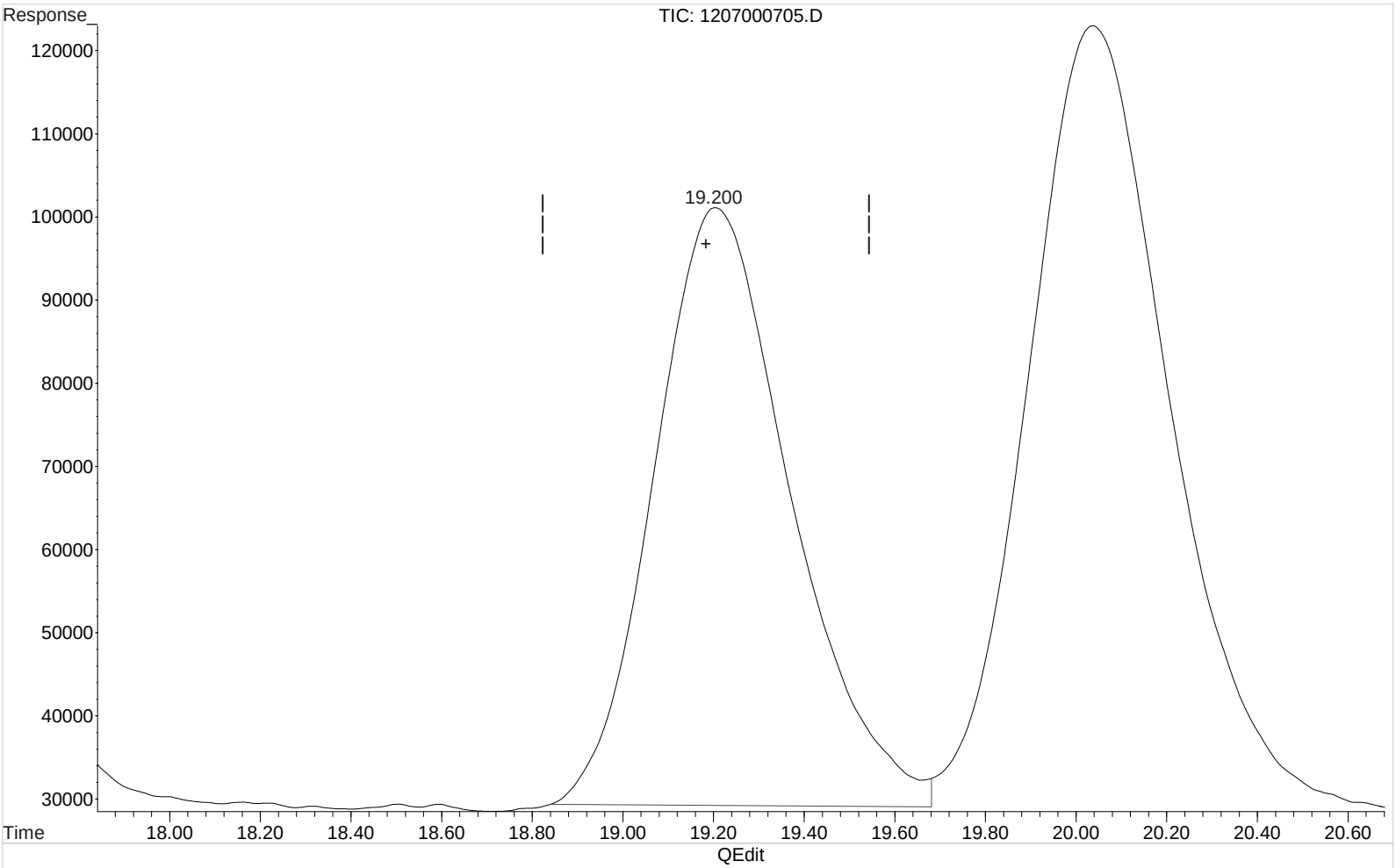
(+) = Expected Retention Time

(b) (6)
1st 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(11) 4-Amino-2,6-DNT (T)

19.200min 55.799 ug/L

response 1499828

Manual Integration:

Before

12/08/16

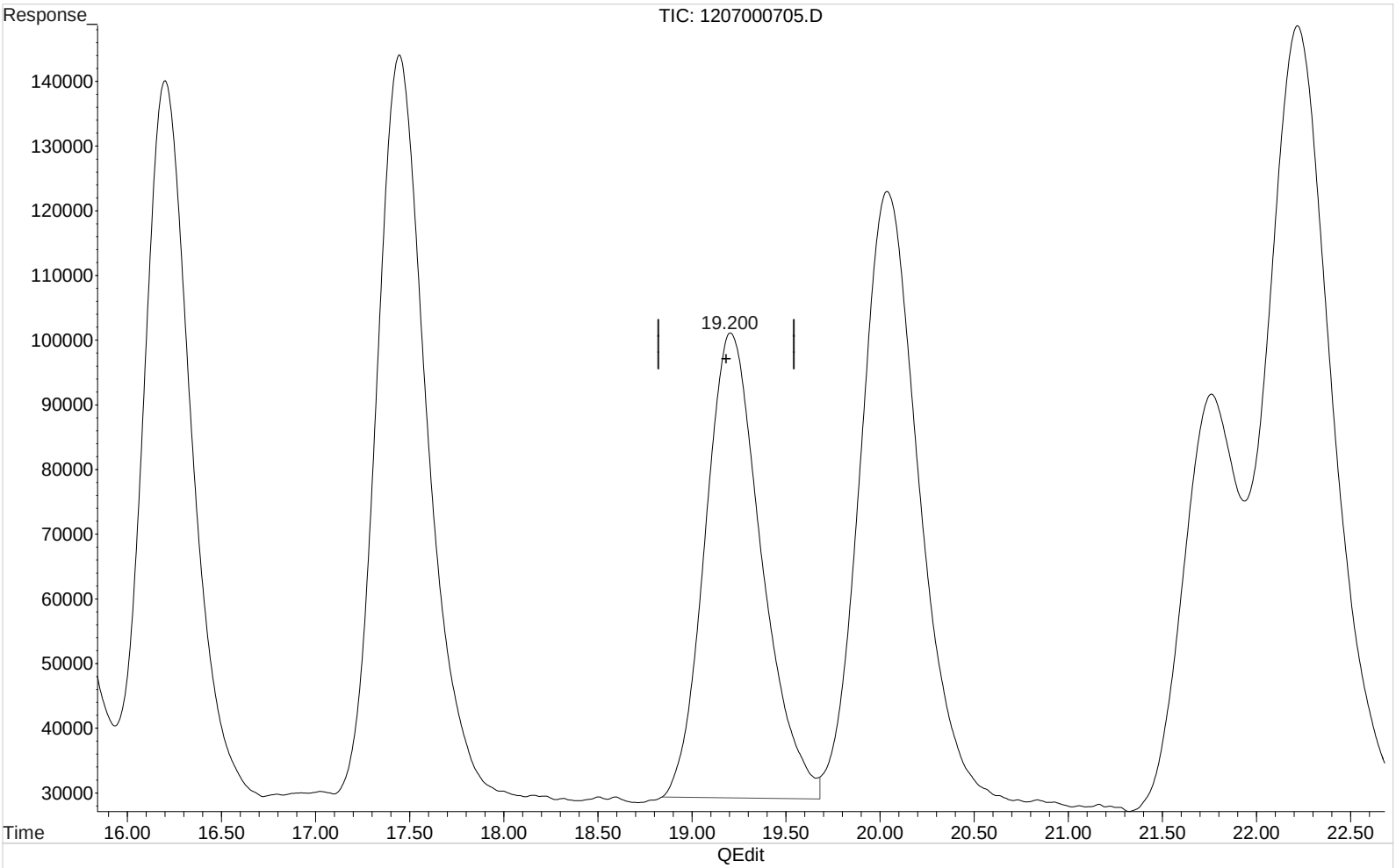
(+) = Expected Retention Time

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(11) 4-Amino-2,6-DNT (T)

19.200min 55.799 ug/L

response 1499828

Manual Integration:

Before

12/08/16

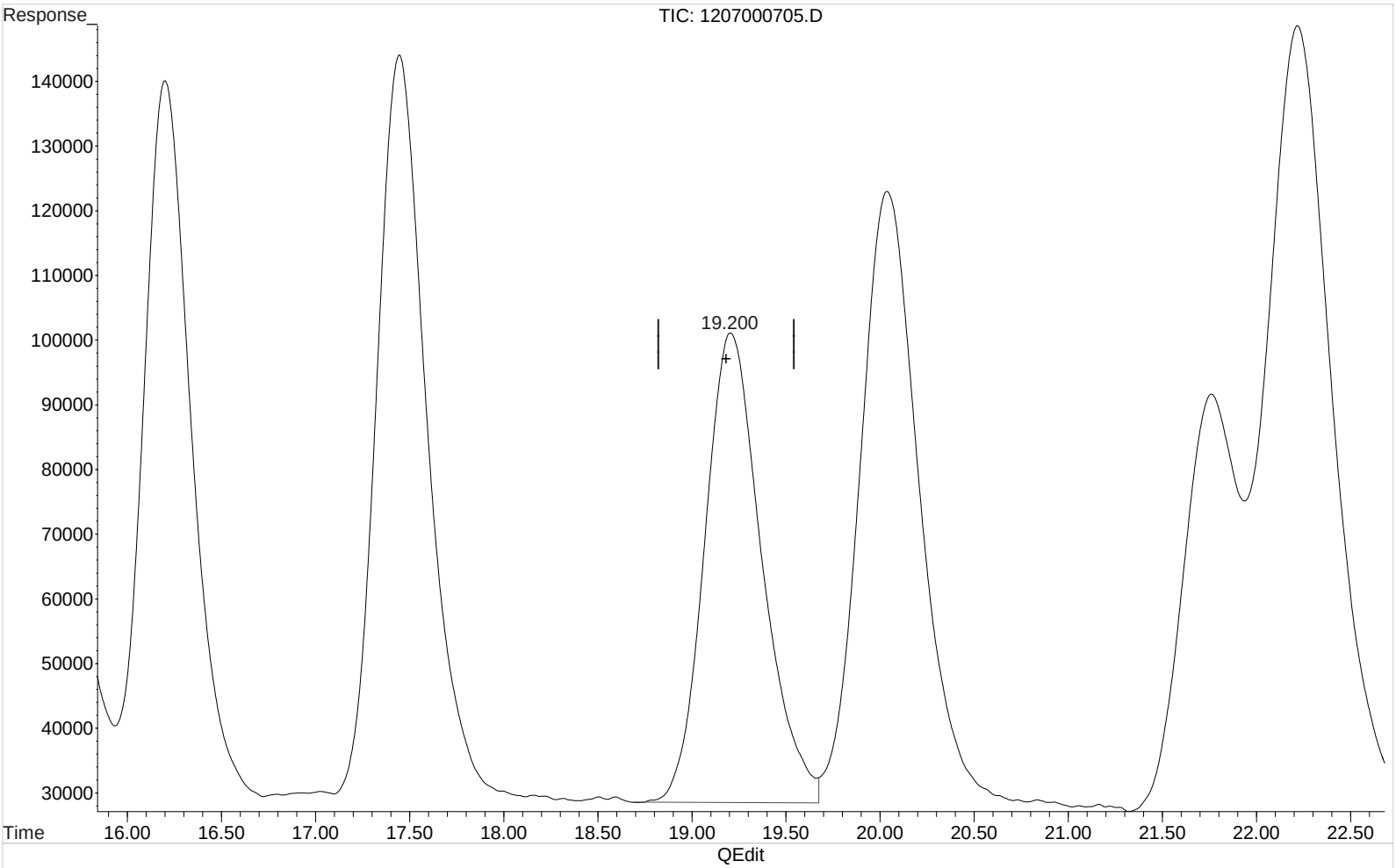
(+) = Expected Retention Time

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(11) 4-Amino-2,6-DNT (T)

19.200min 57.134 ug/L m

response 1535717

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

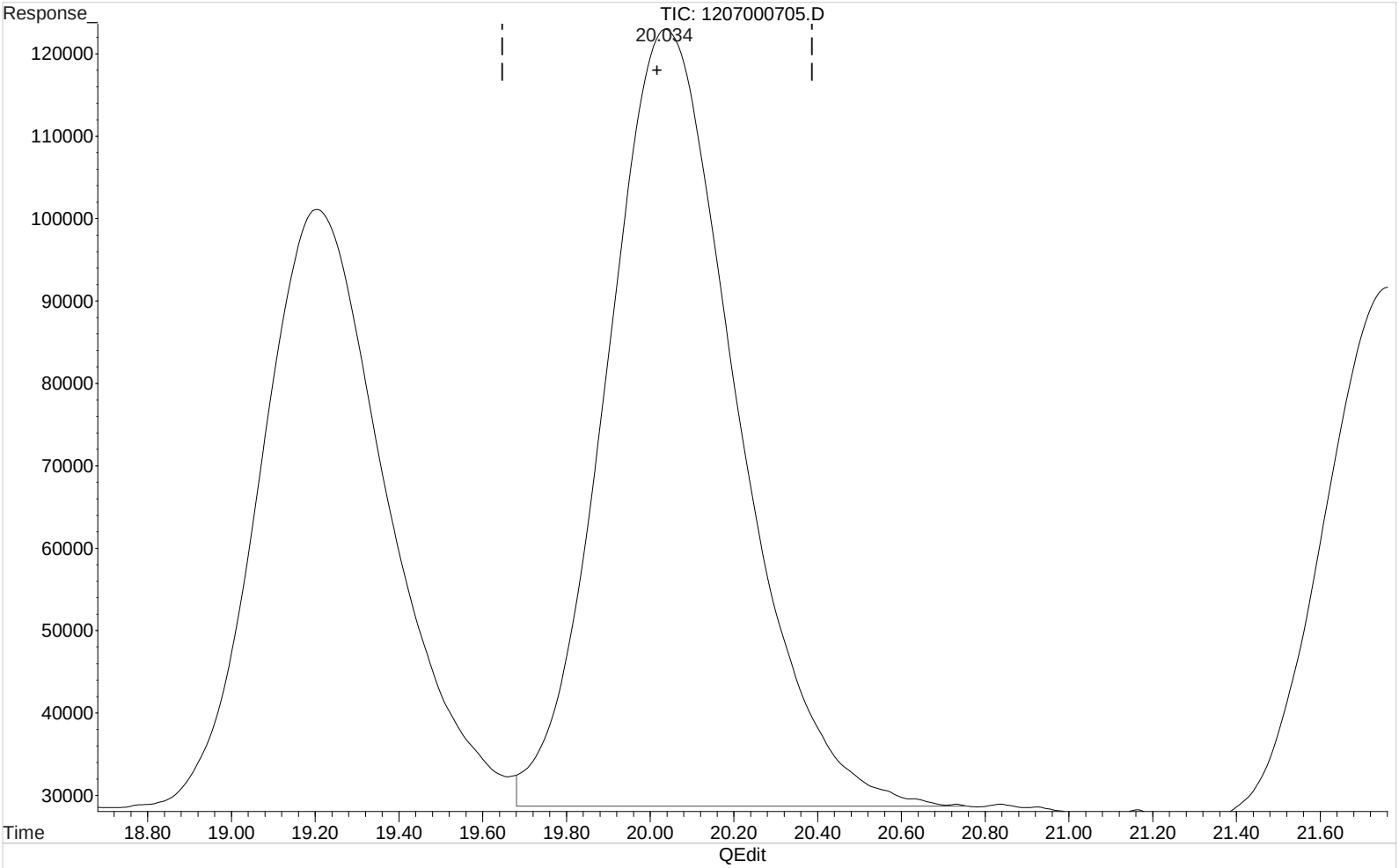
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(12) 2-Amino-4,6-DNT (T)

20.034min 43.047 ug/L

response 2047627

Manual Integration:

Before

12/08/16

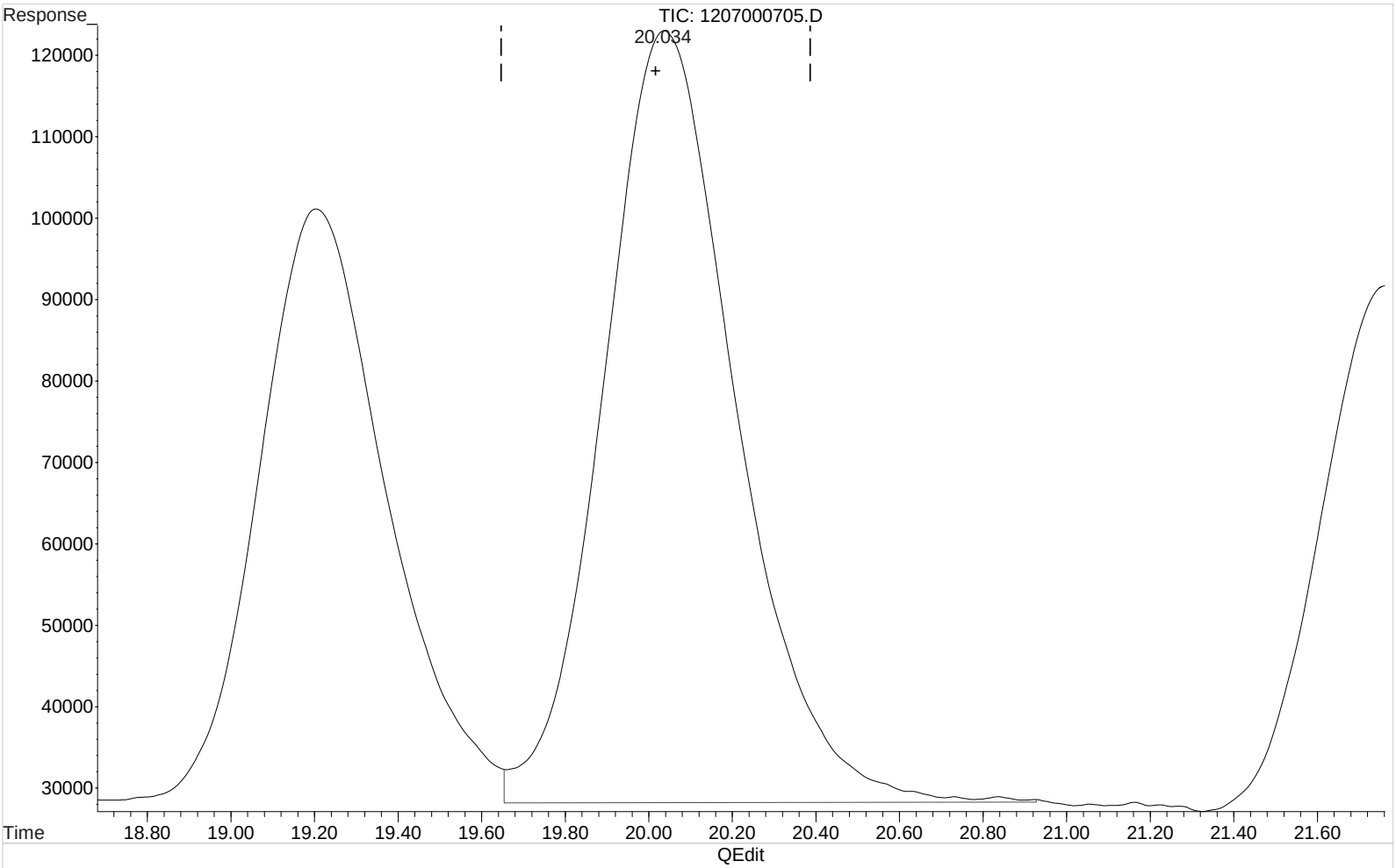
(+) = Expected Retention Time

(b) (6)
1st 2/08/16
2n 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(12) 2-Amino-4,6-DNT (T)

20.034min 43.890 ug/L m

response 2087710

Manual Integration:

Before

12/08/16

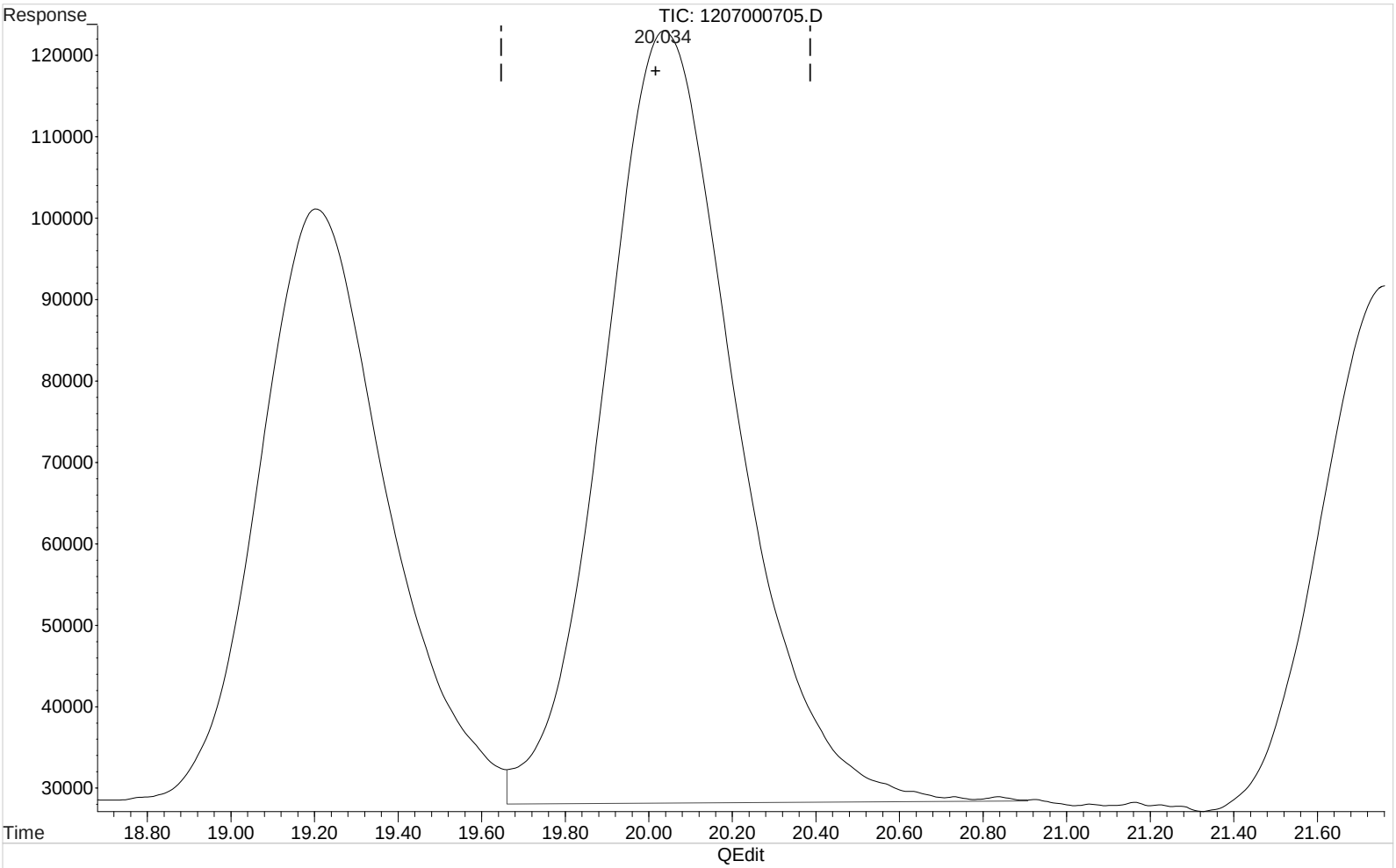
(+) = Expected Retention Time

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(12) 2-Amino-4,6-DNT (T)

20.034min 43.852 ug/L m

response 2085917

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

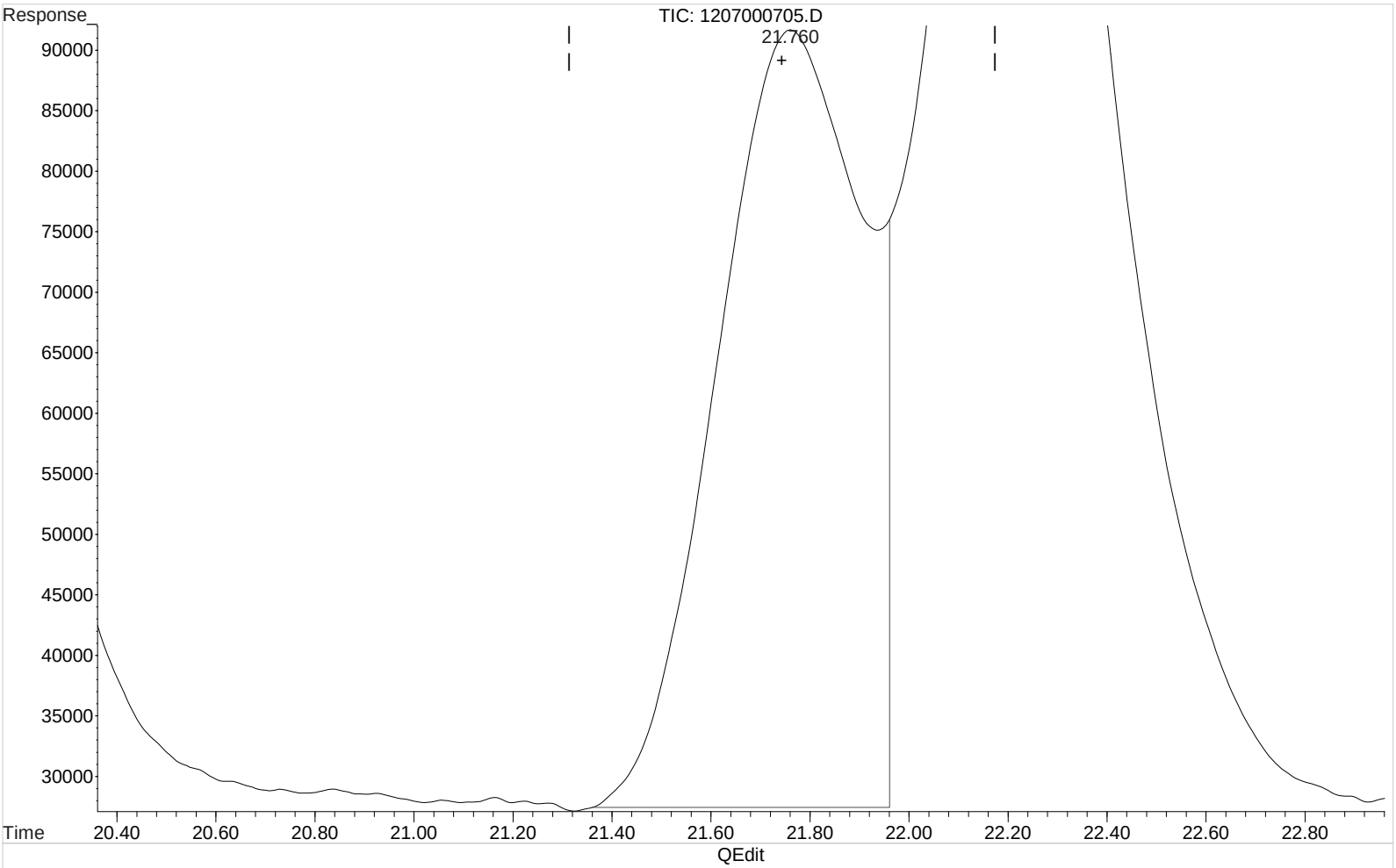
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.760min 0.000 ug/L

response 1327592

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

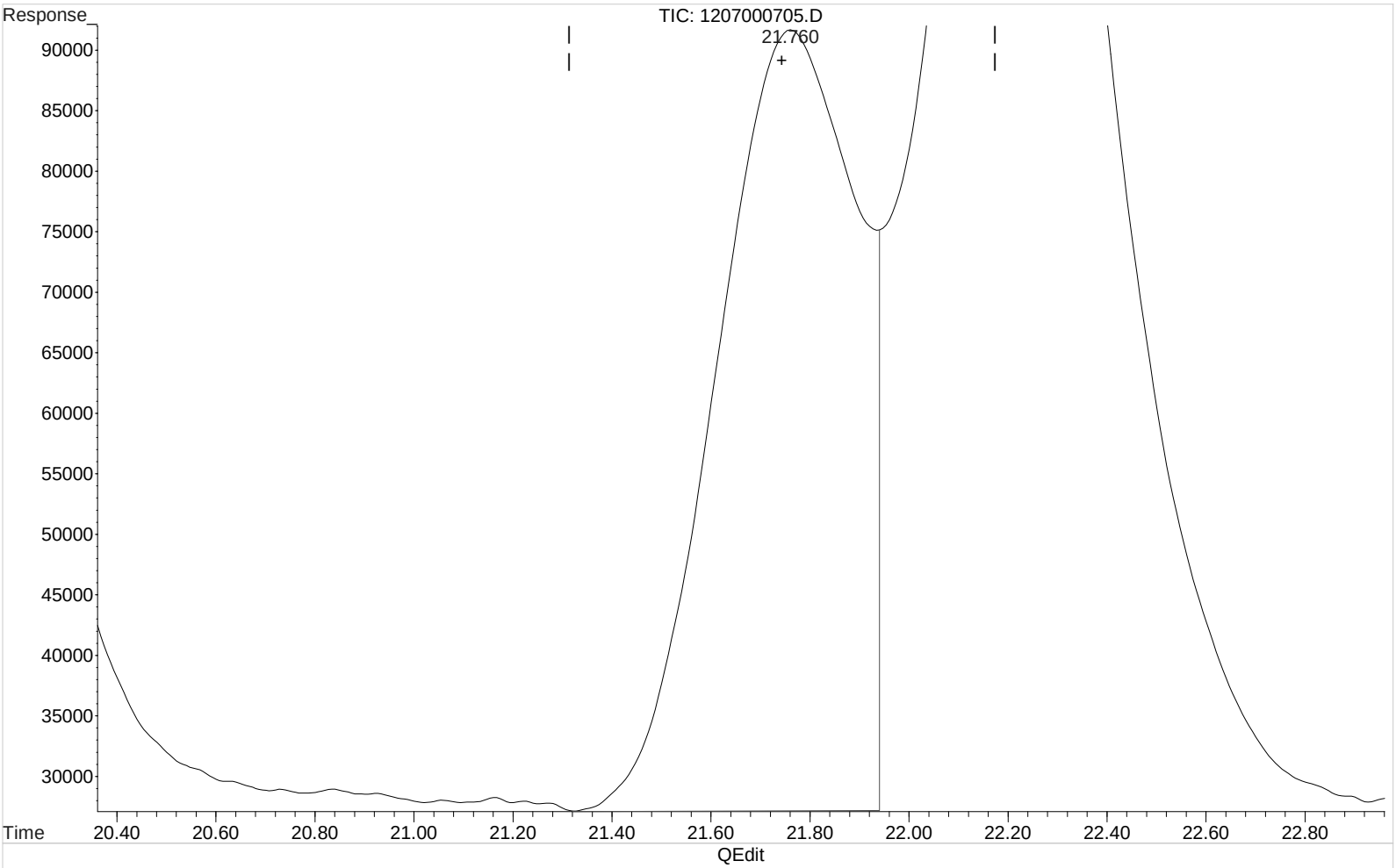
Quantitation Report (Qedit)

(b) (6)
1st 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.760min 0.000 ug/L m

response 1280625

Manual Integration:

After

BLC

12/08/16

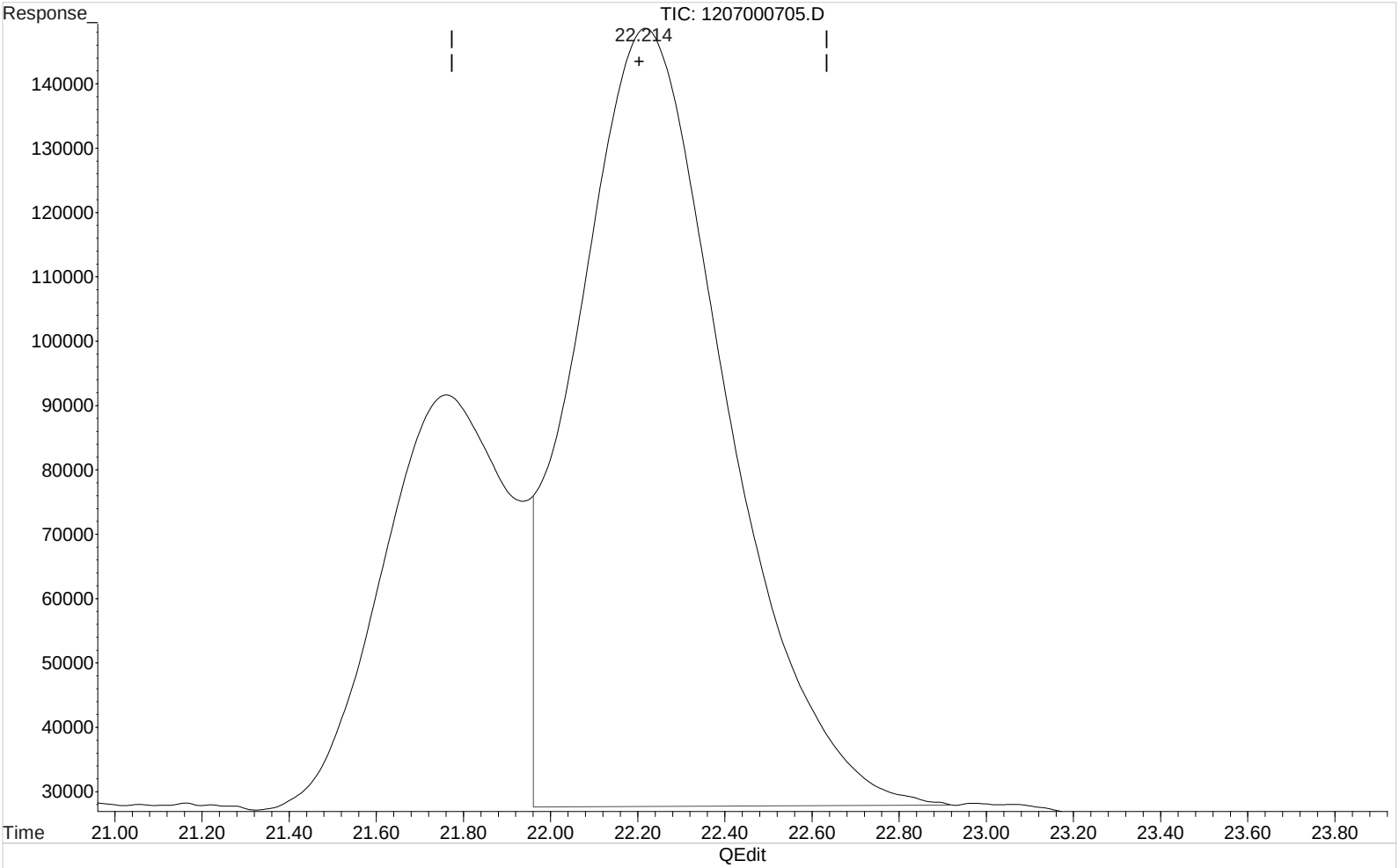
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.214min 50.242 ug/L

response 2892987

Manual Integration:

Before

12/08/16

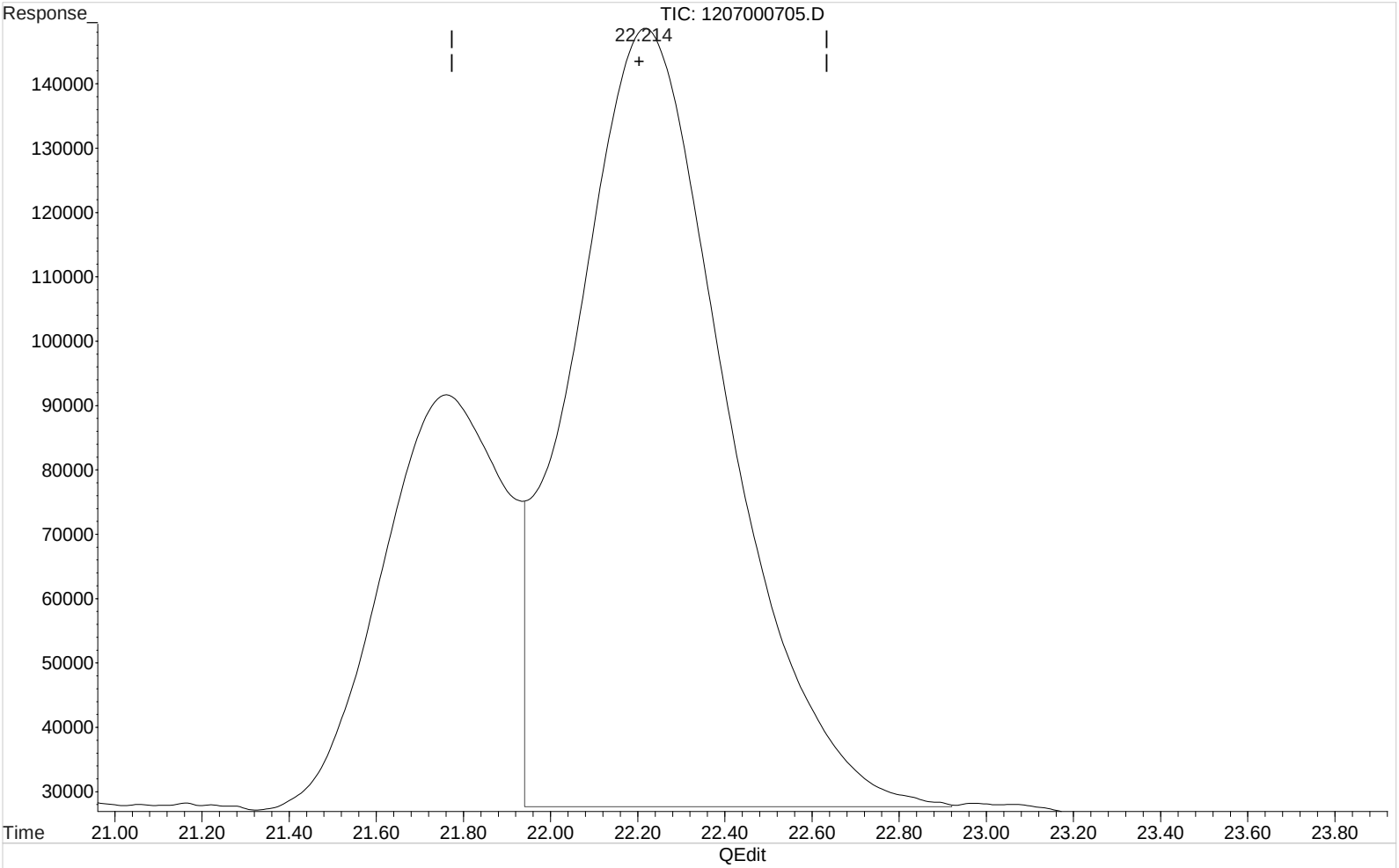
(+) = Expected Retention Time

1st (b)(6) 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.214min 51.322 ug/L m

response 2955148

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b)(6)

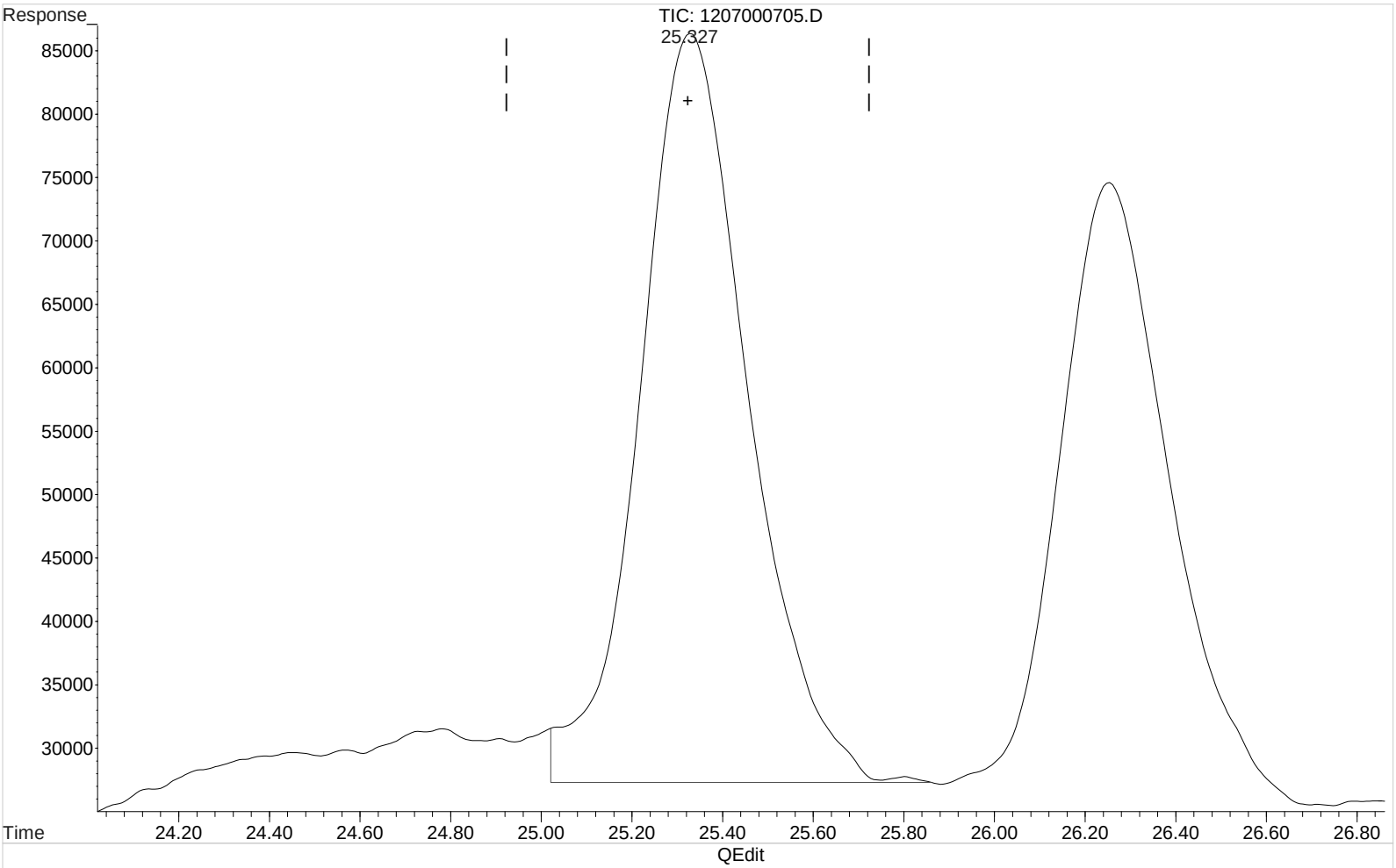
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.327min 56.083 ug/L

response 981052

Manual Integration:

Before

12/08/16

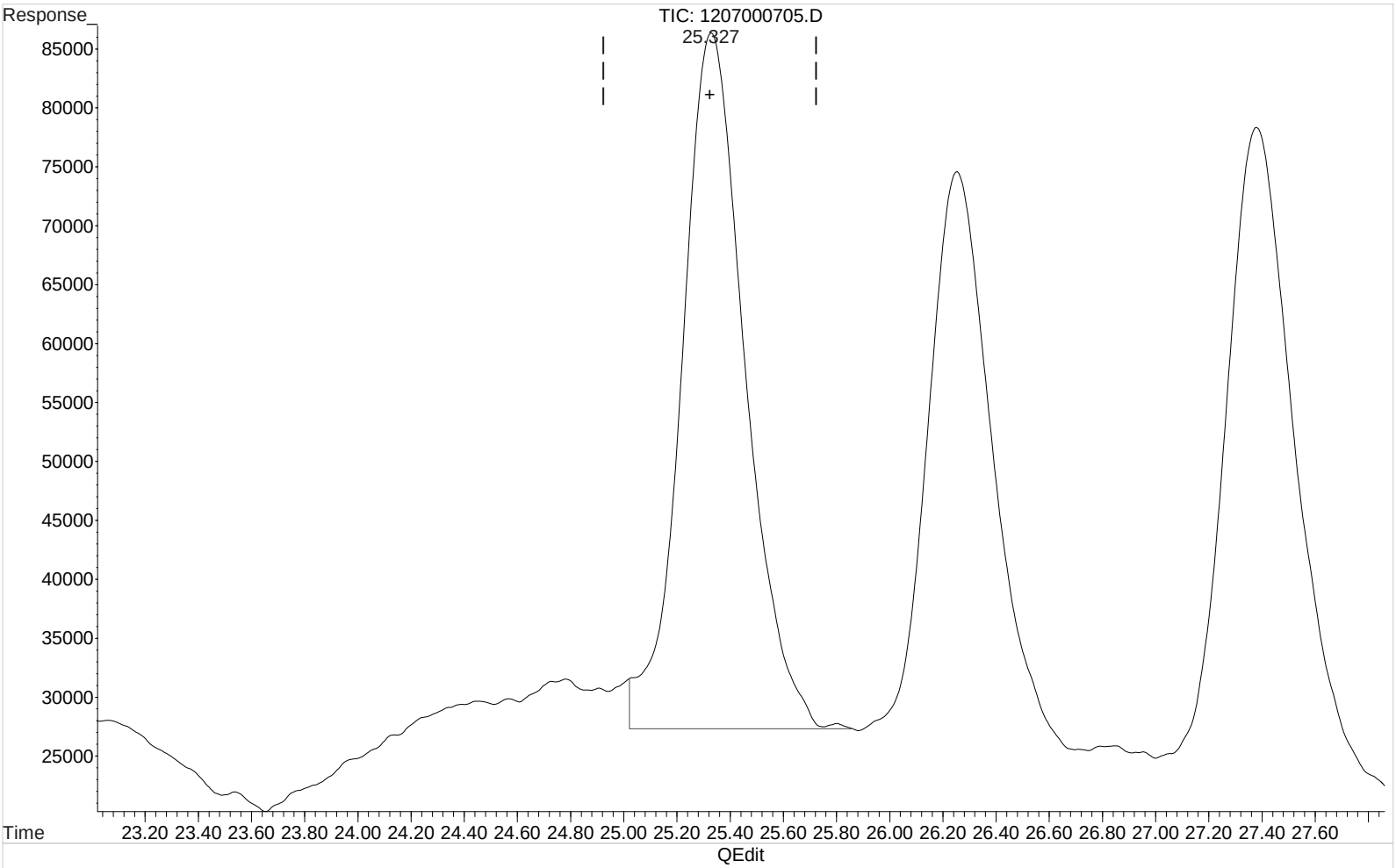
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.327min 56.083 ug/L

response 981052

Manual Integration:

Before

12/08/16

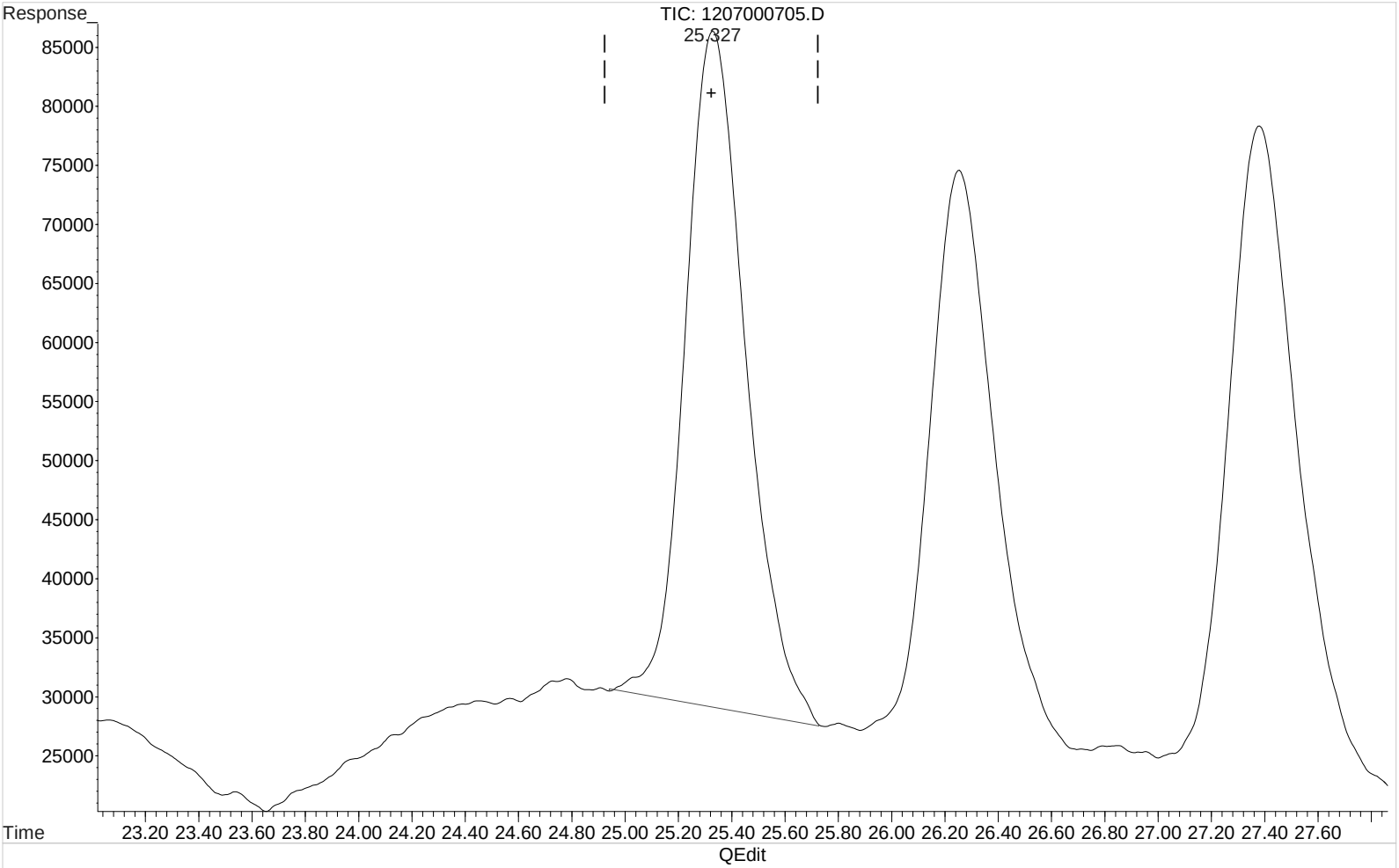
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.327min 52.158 ug/L m

response 912402

Manual Integration:

After

BLC

12/08/16

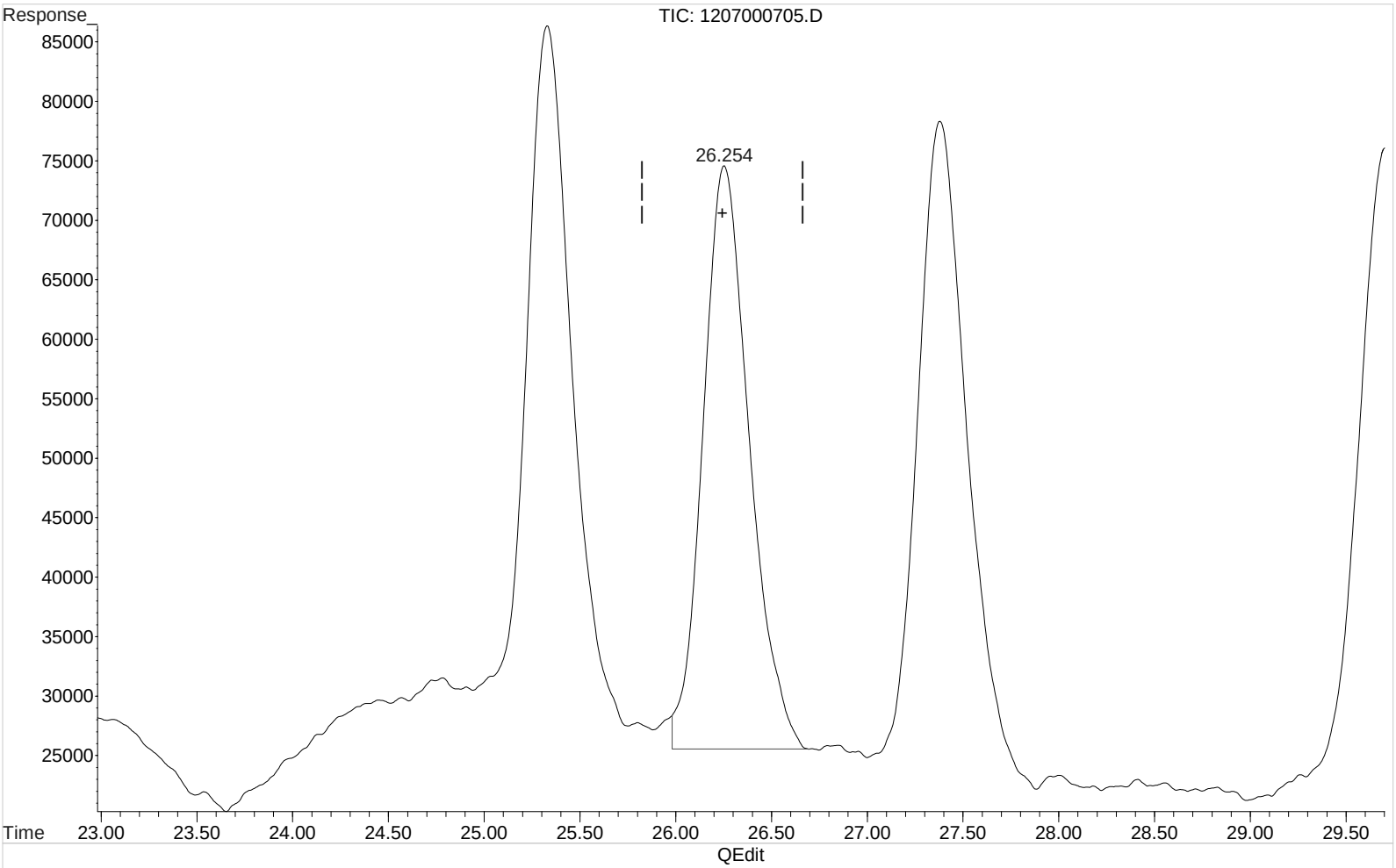
(+) = Expected Retention Time

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.254min 51.817 ug/L

response 828954

Manual Integration:

Before

12/08/16

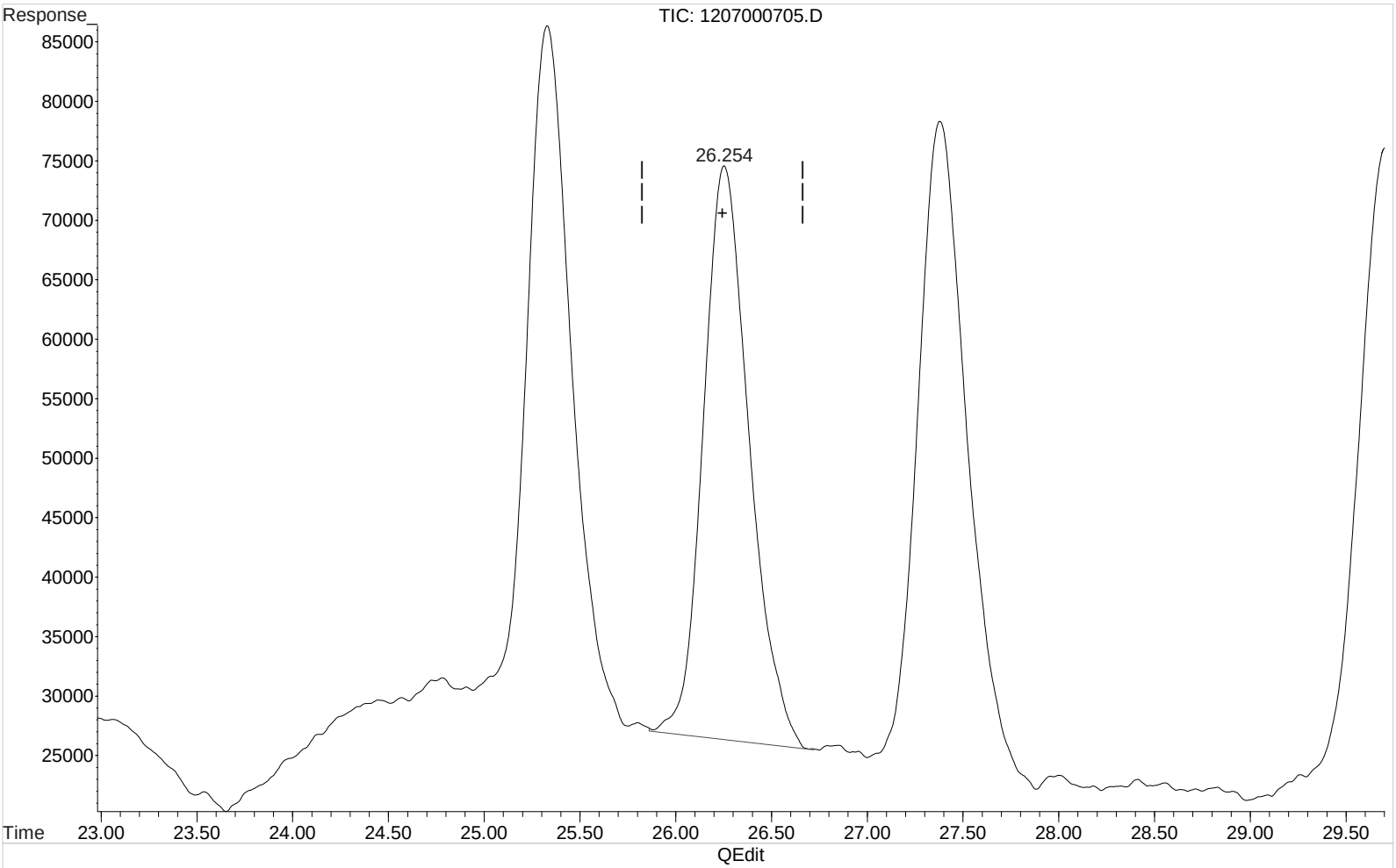
(+) = Expected Retention Time

1st (b) (6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.254min 50.422 ug/L m

response 806643

Manual Integration:

After

BLC

12/08/16

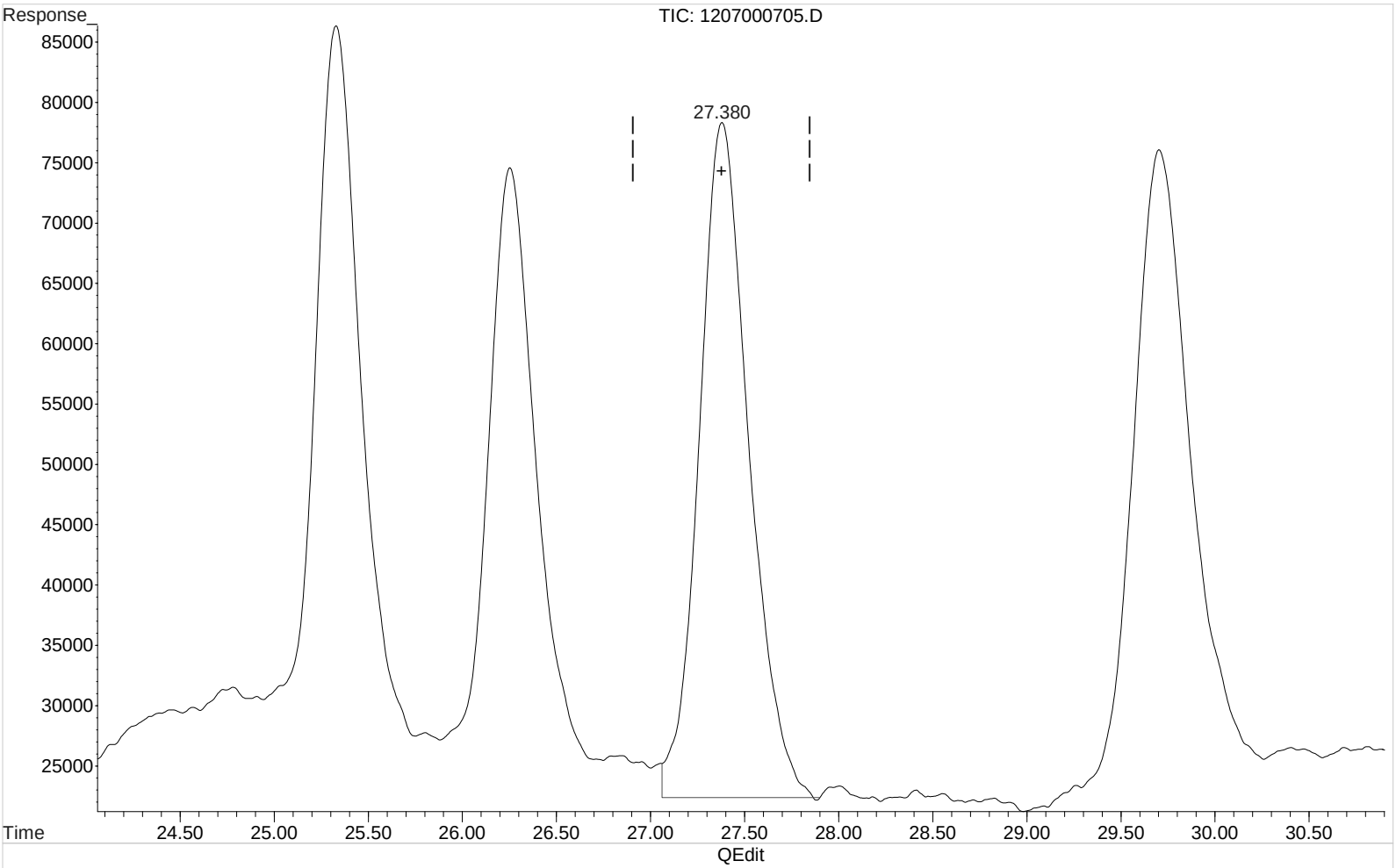
(+) = Expected Retention Time

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.380min 50.117 ug/L

response 1030312

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

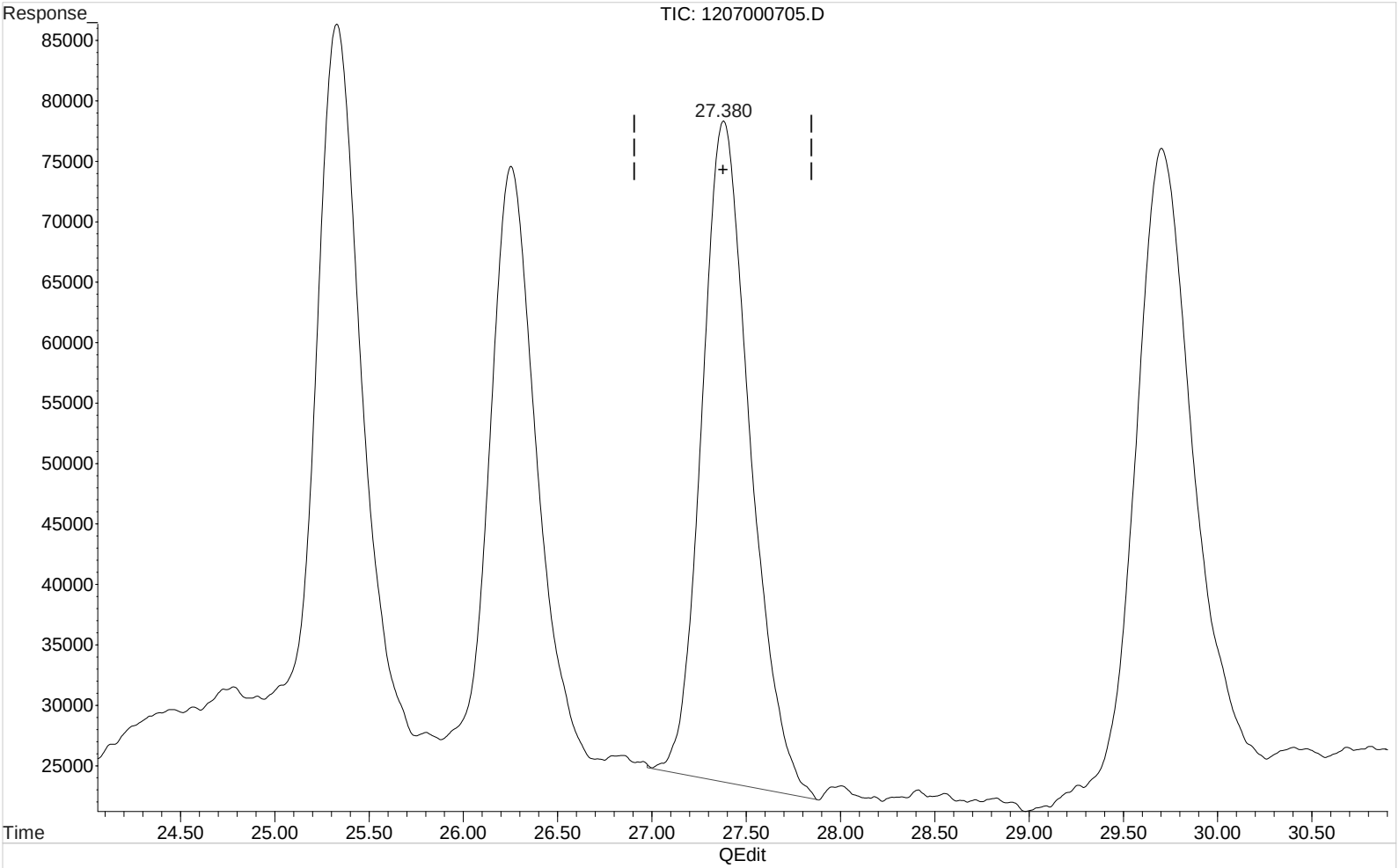
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.380min 47.770 ug/L m

response 982059

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

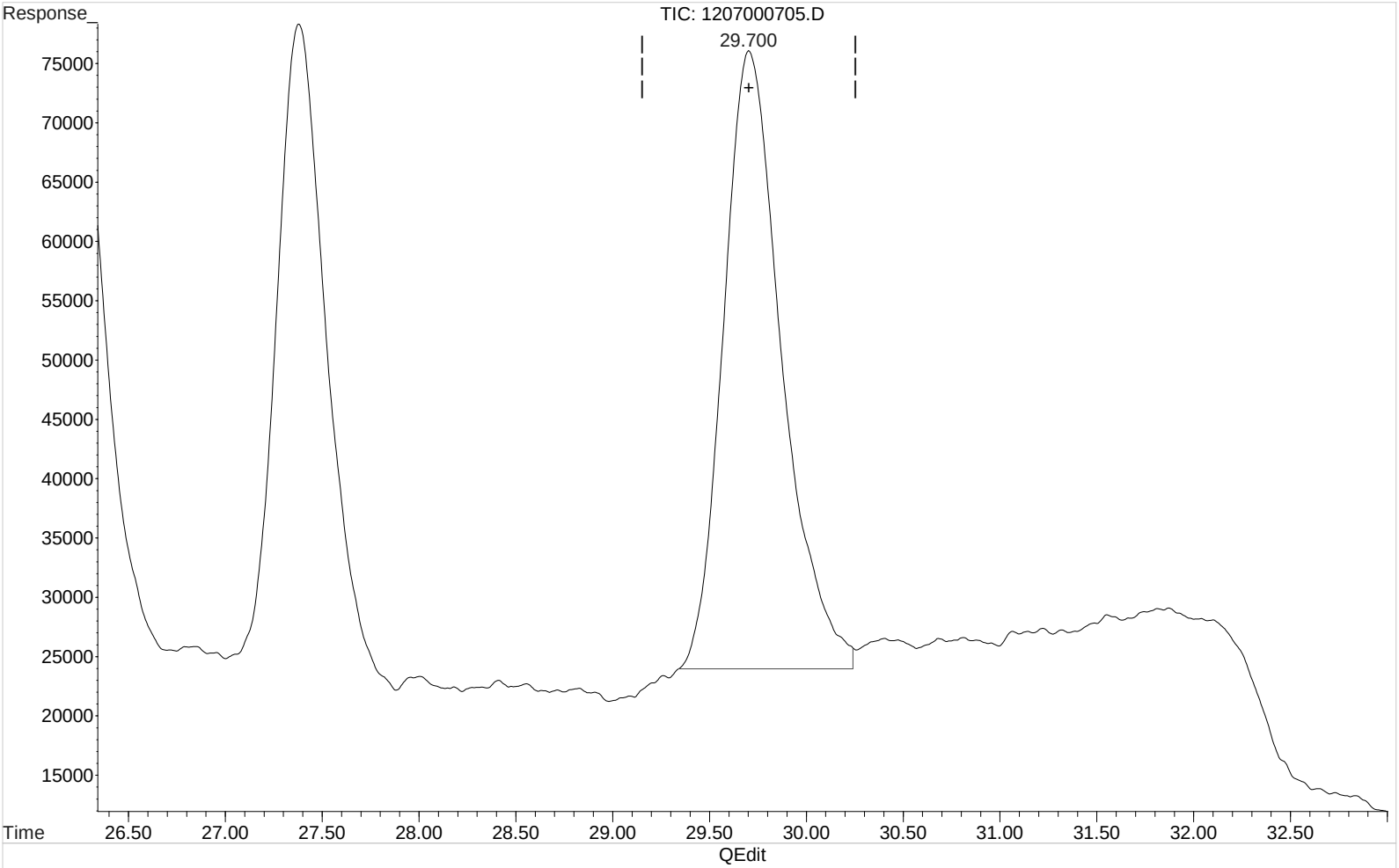
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(18) 1-Chloro-3-Nitrobenzene (S)

29.700min 47.408 ug/L

response 1093549

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

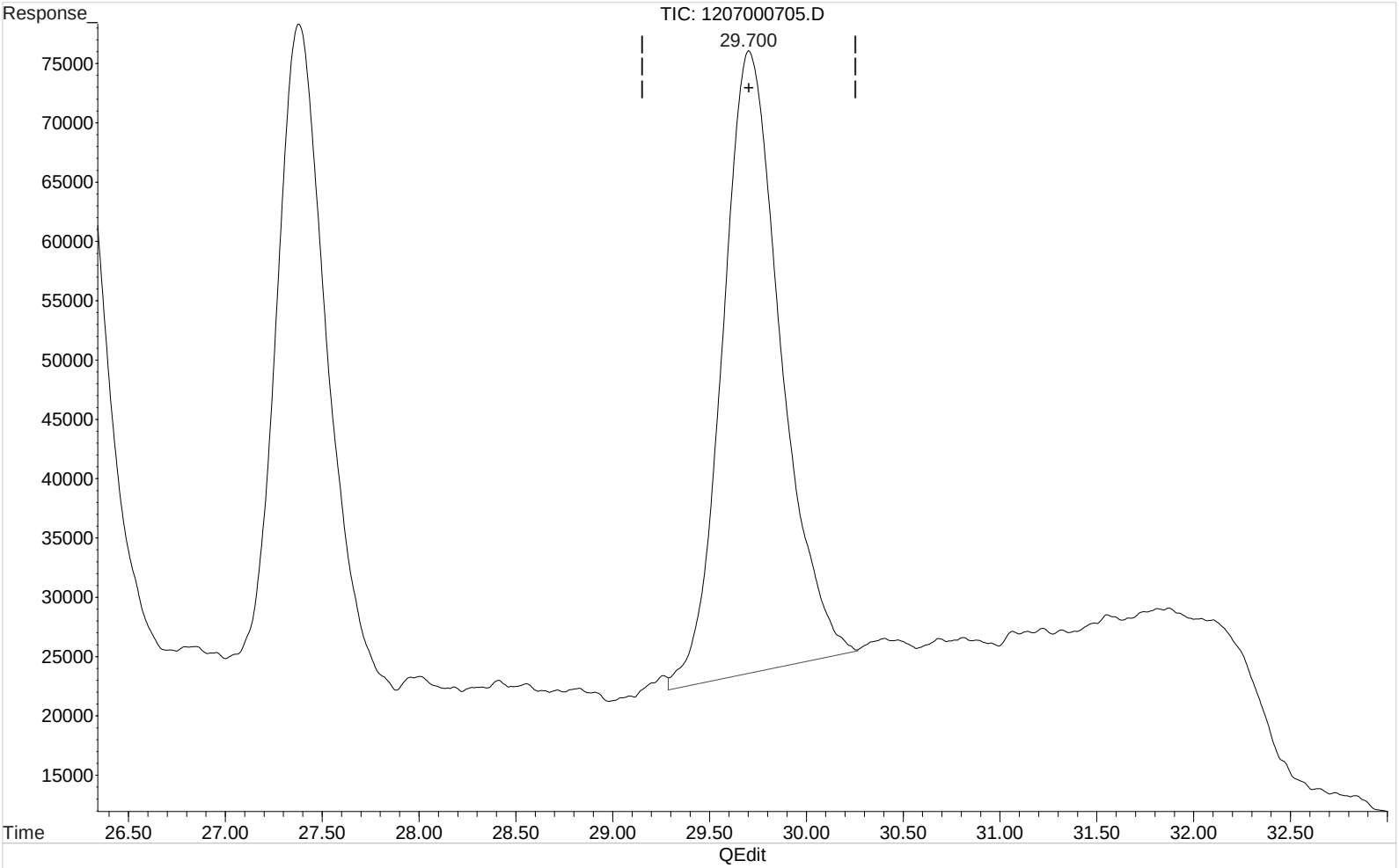
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(18) 1-Chloro-3-Nitrobenzene (S)

29.700min 47.809 ug/L m

response 1102787

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b) (6)

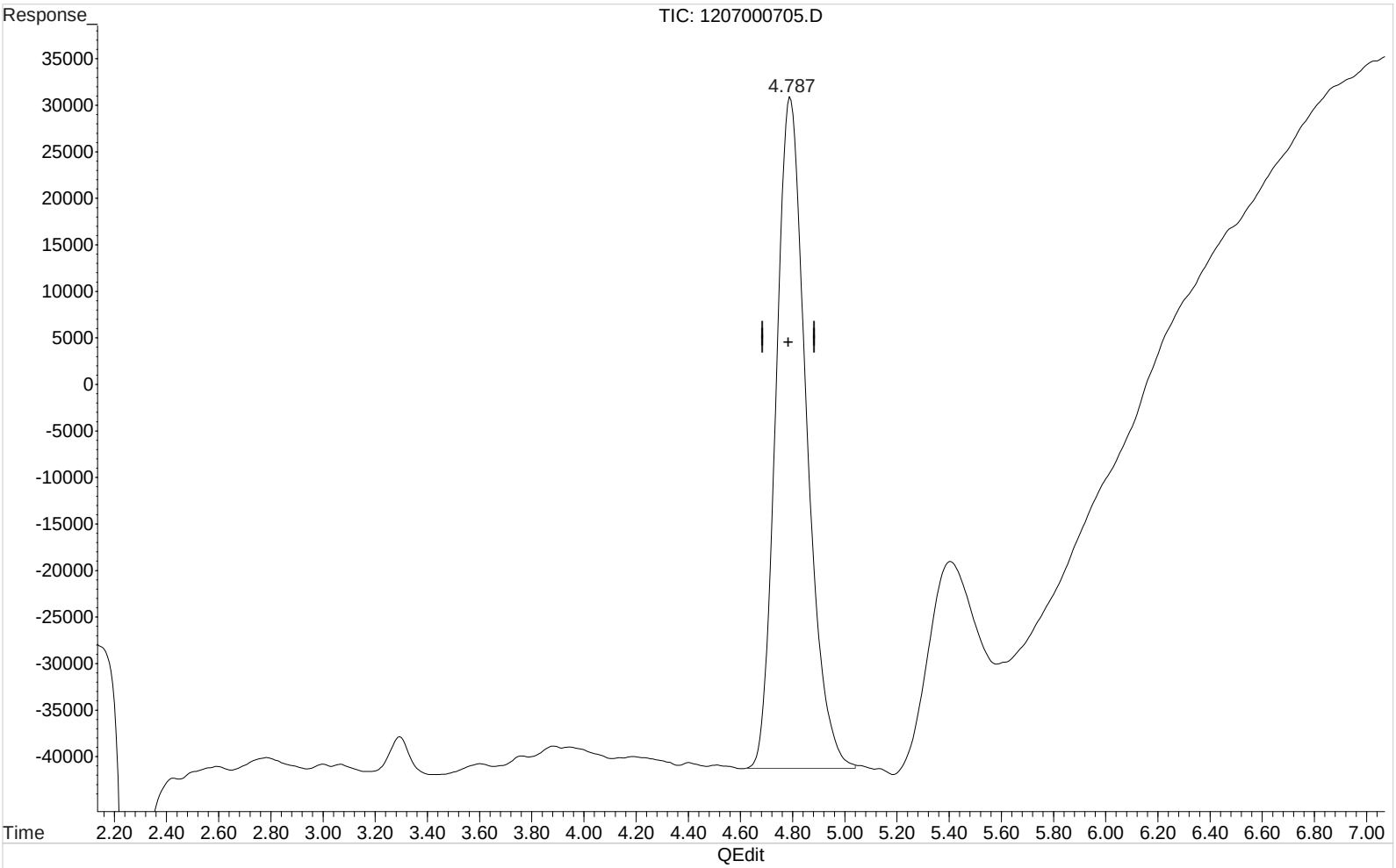
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(2) HMX (T)

4.787min 50.576 ug/L

response 588444

Manual Integration:

Before

12/08/16

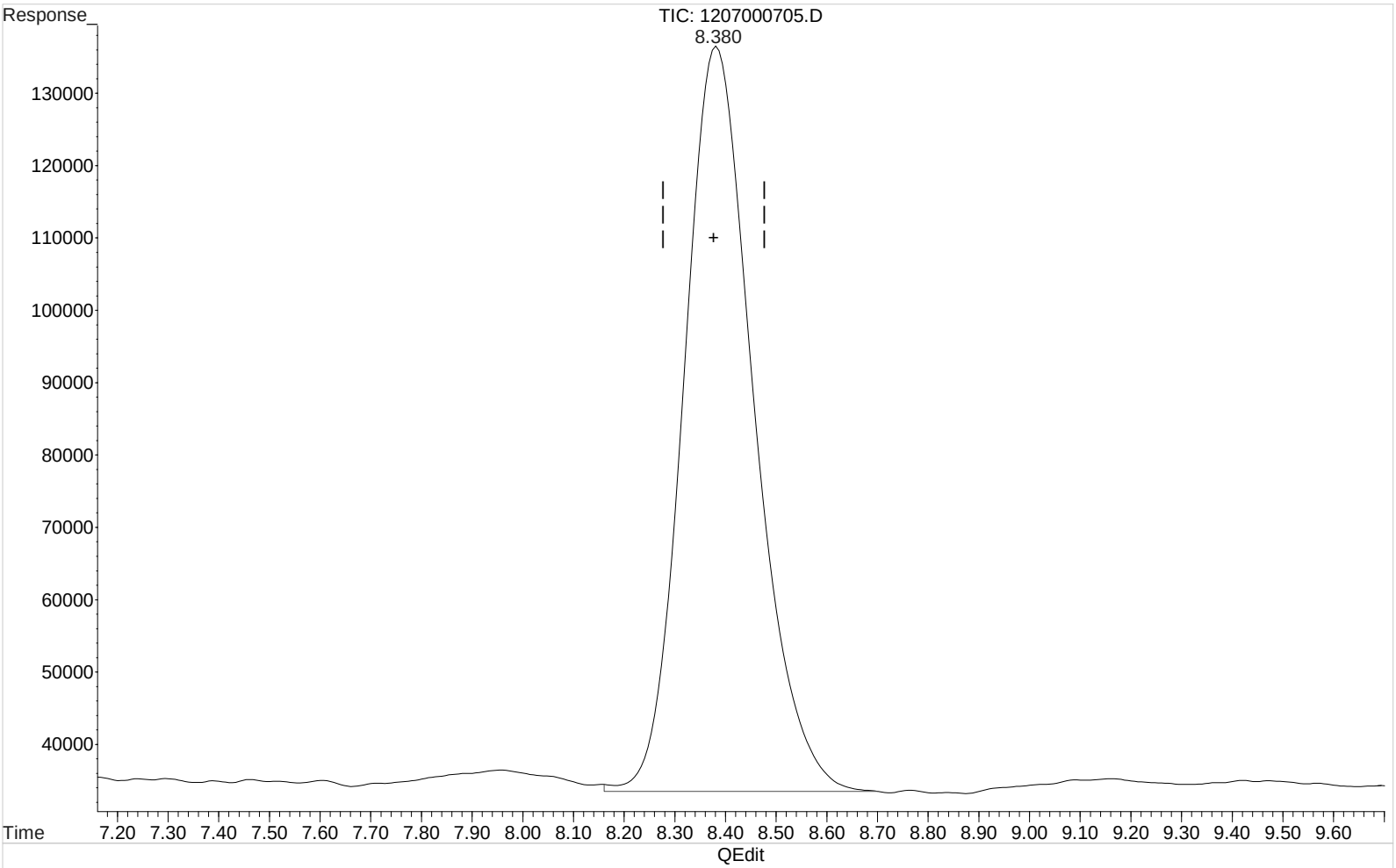
(+) = Expected Retention Time

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(4) RDX (T)

8.380min 47.162 ug/L

response 991175

Manual Integration:

Before

12/08/16

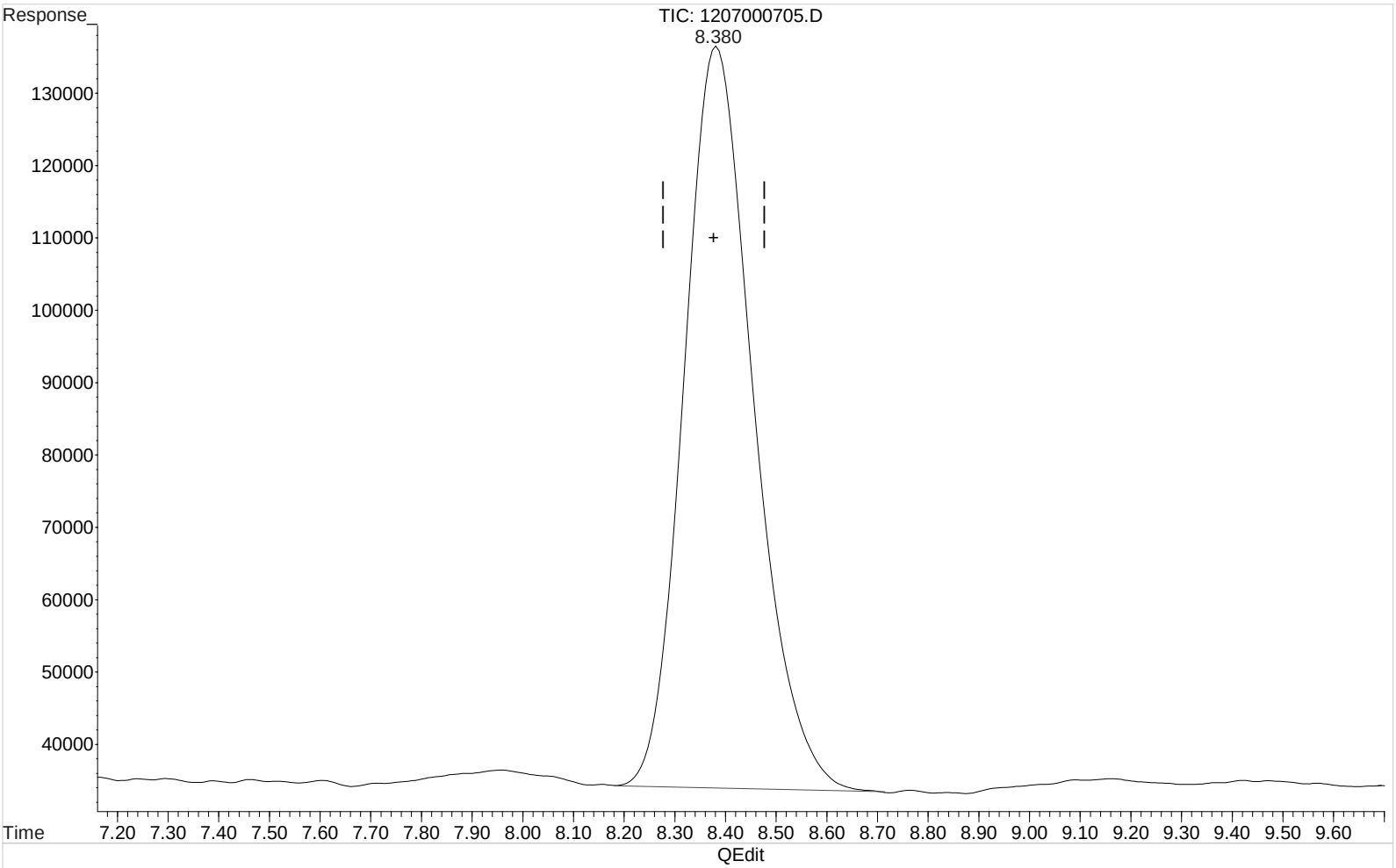
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(4) RDX (T)

8.380min 46.580 ug/L m

response 978940

Manual Integration:

After

BLC

12/08/16

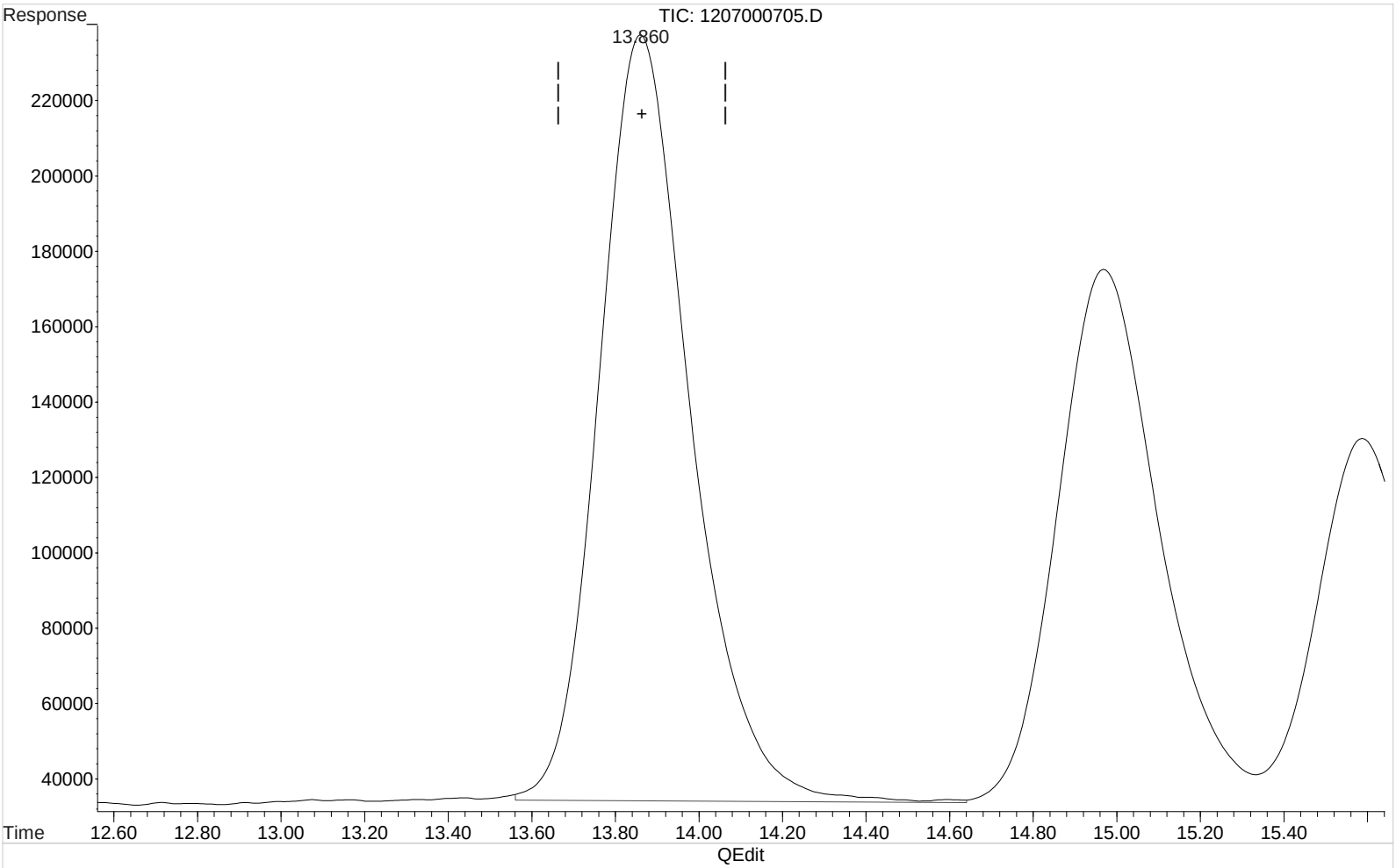
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(6) 1,3-DNB (T)

13.860min 49.138 ug/L

response 3091980

Manual Integration:

Before

12/08/16

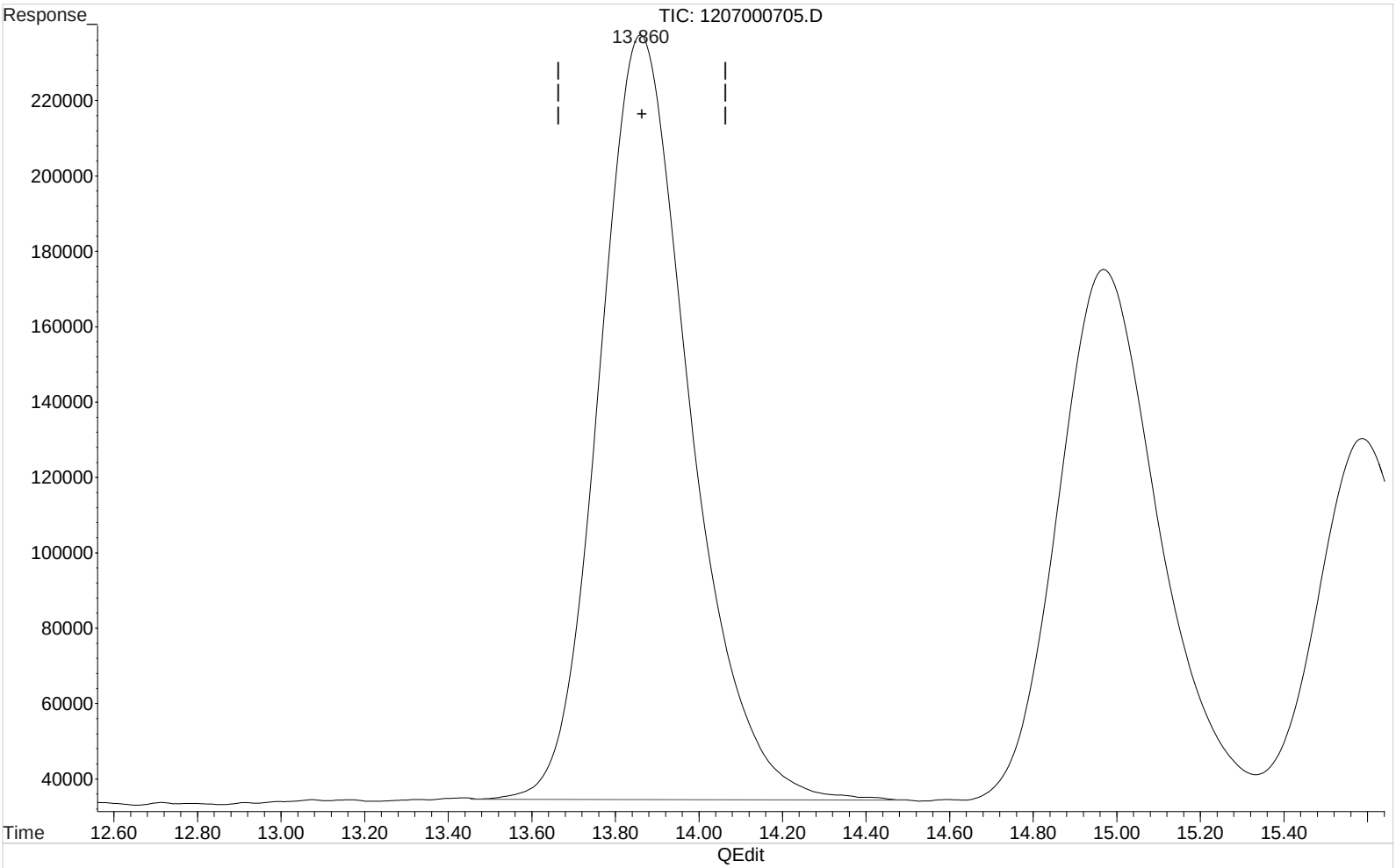
(+) = Expected Retention Time

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(6) 1,3-DNB (T)

13.860min 48.773 ug/L m

response 3069012

Manual Integration:

After

BLC

12/08/16

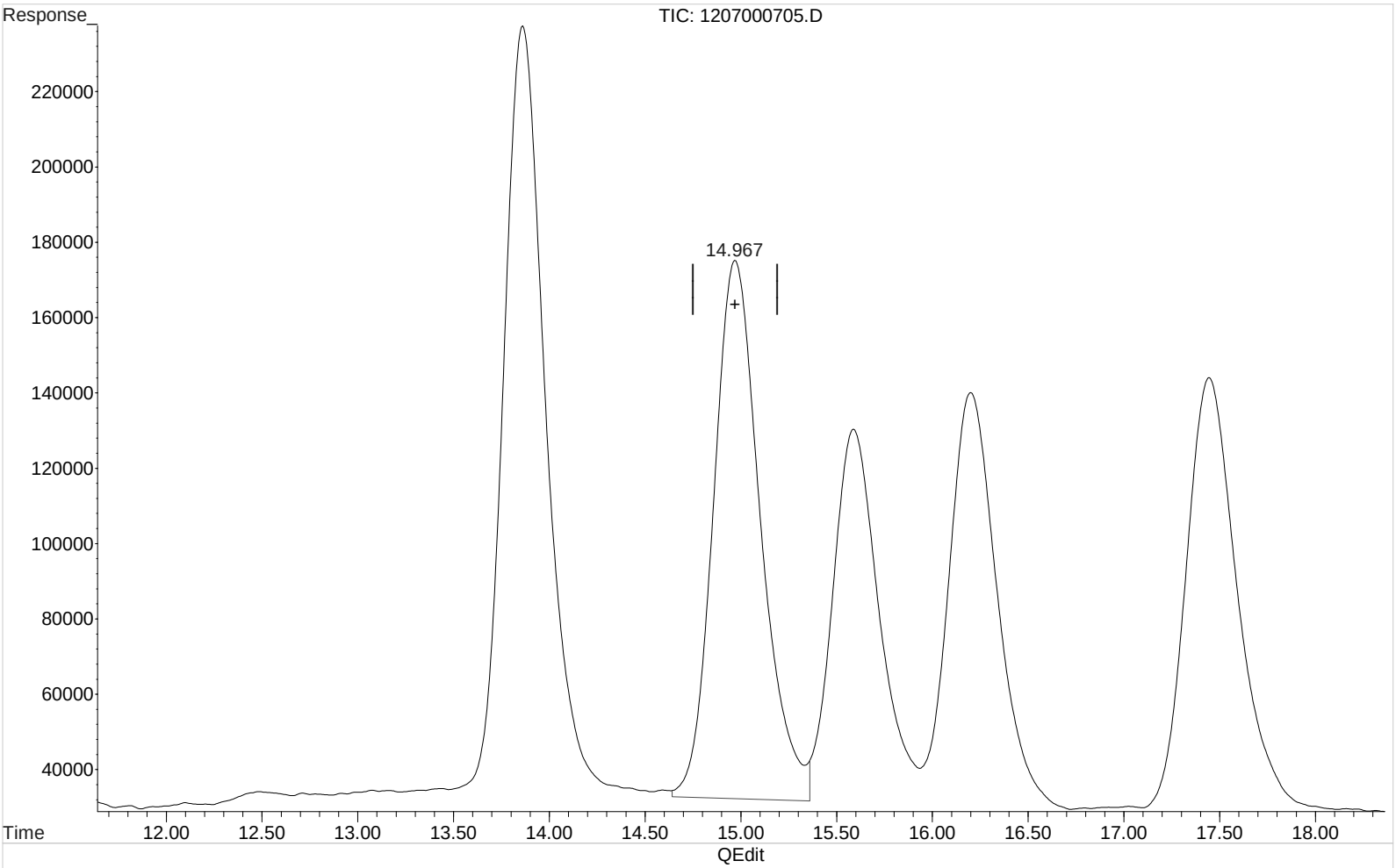
(+) = Expected Retention Time

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(7) 3,5-Dinitroaniline (T)

14.967min 50.232 ug/L

response 2450718

Manual Integration:

Before

12/08/16

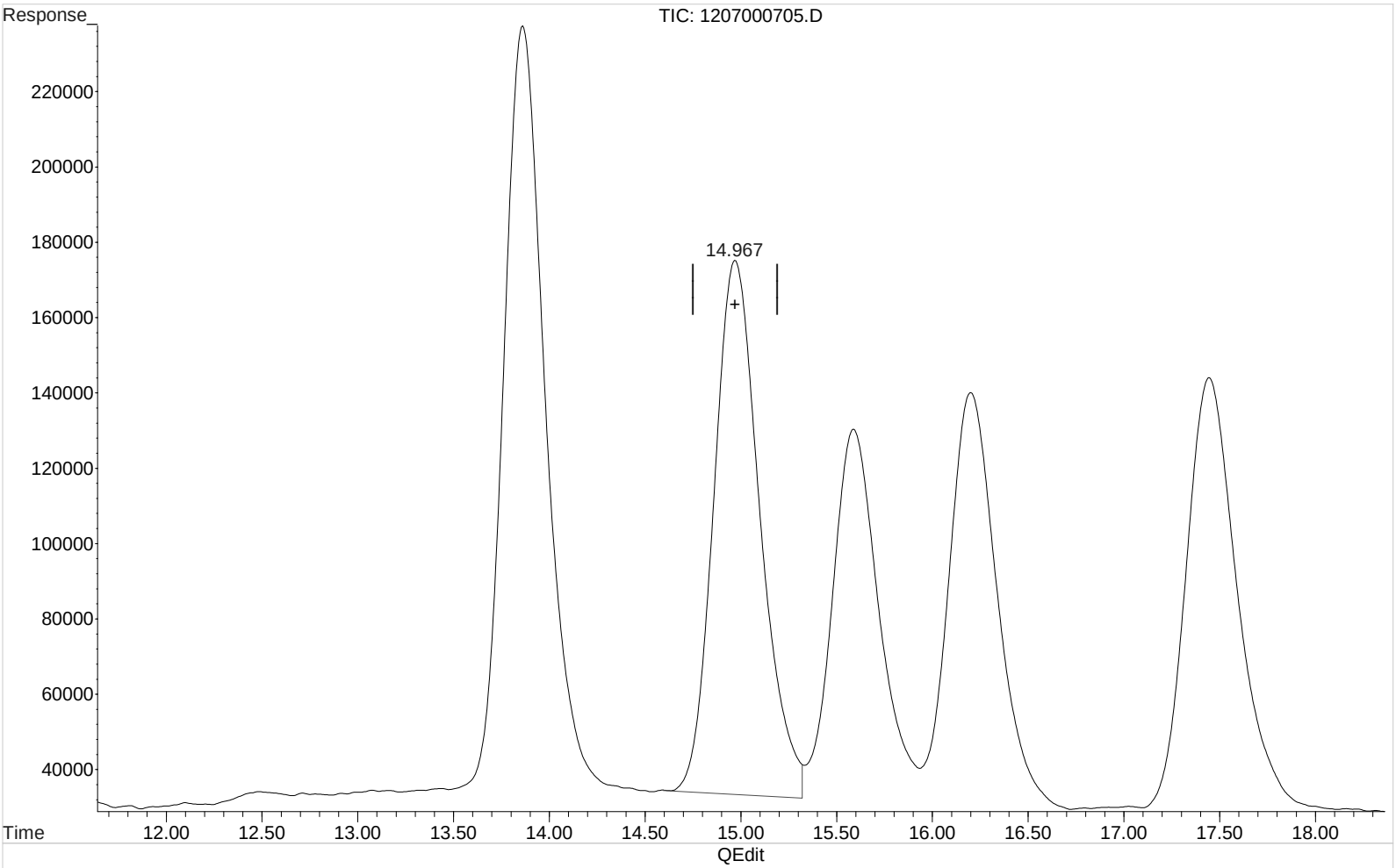
(+) = Expected Retention Time

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(7) 3,5-Dinitroaniline (T)

14.967min 48.826 ug/L m

response 2382128

Manual Integration:

After

BLC

12/08/16

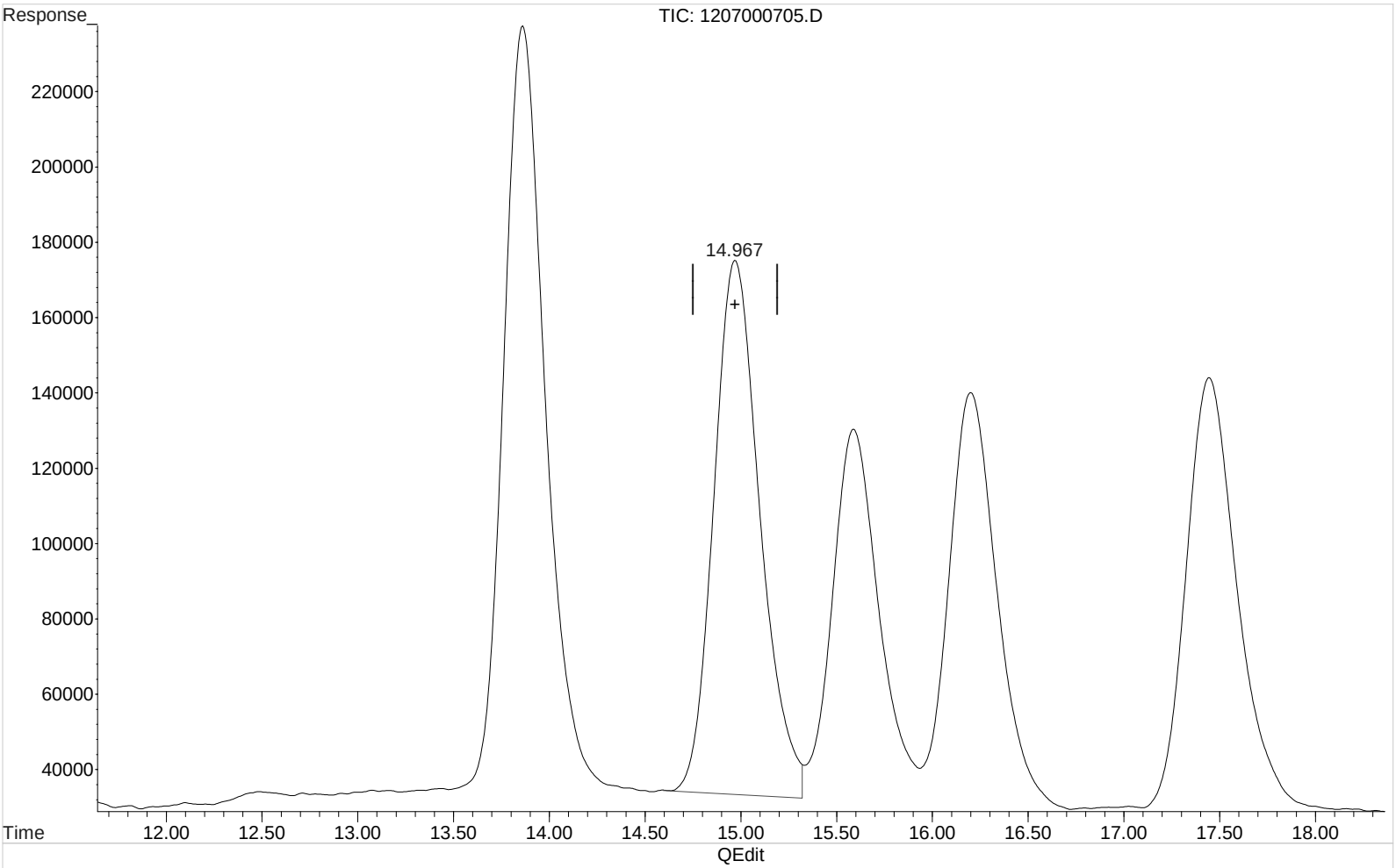
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(7) 3,5-Dinitroaniline (T)

14.967min 48.826 ug/L m

response 2382128

Manual Integration:

After

NO BEFORE, ACCIDENTAL INT

12/08/16

(+) = Expected Retention Time

(b) (6)

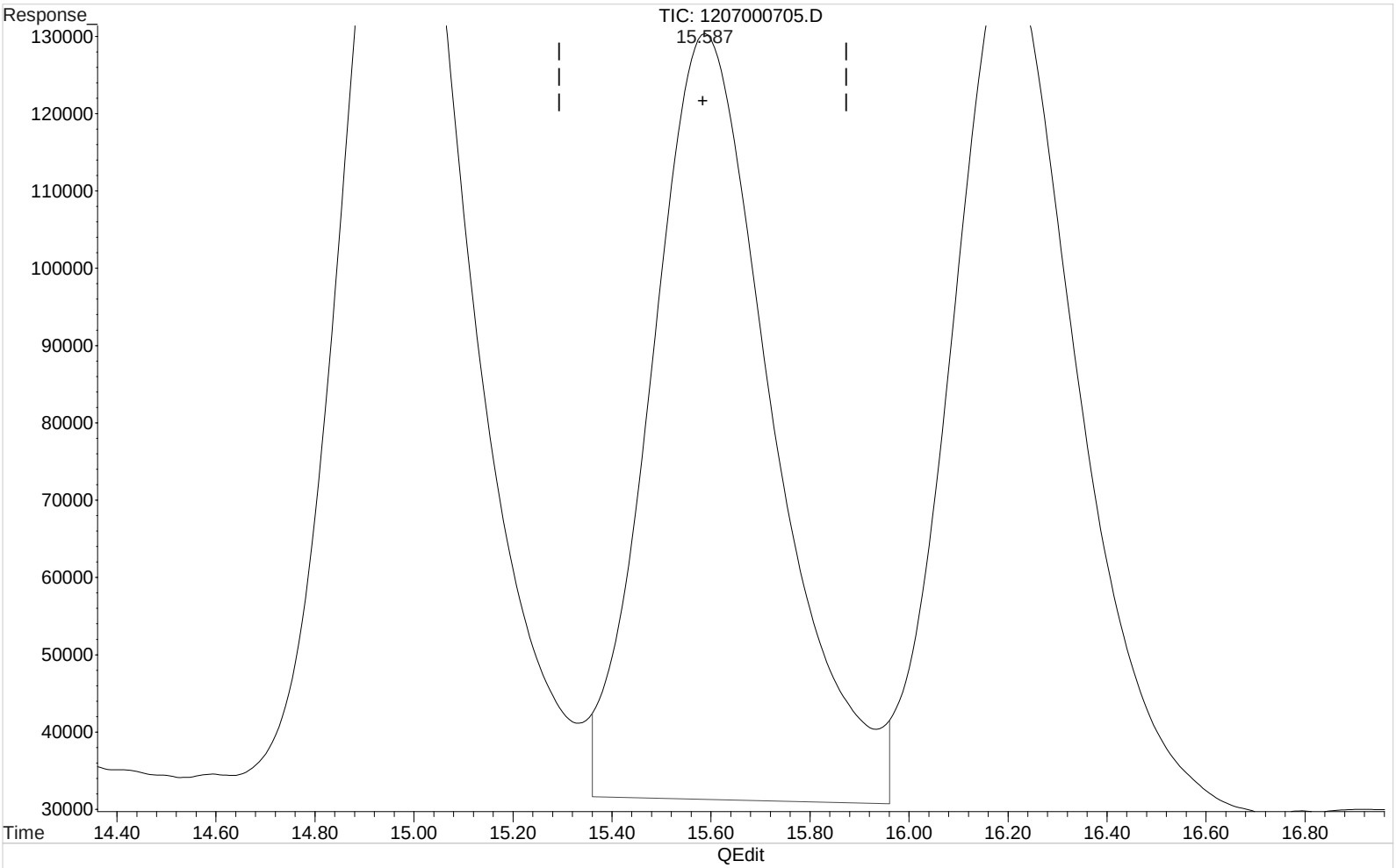
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.587min 49.926 ug/L

response 1682029

Manual Integration:

Before

12/08/16

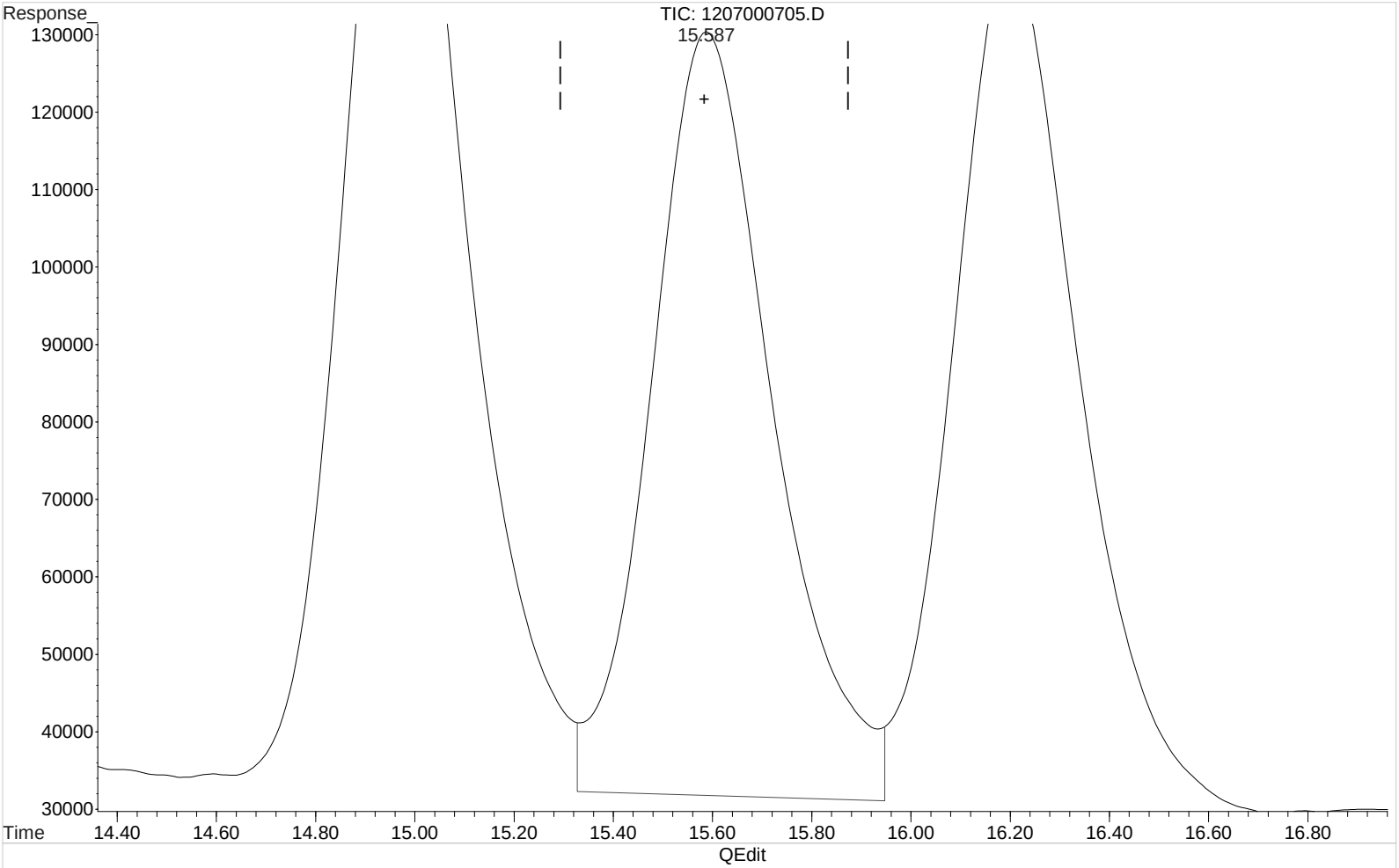
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.587min 49.760 ug/L m

response 1676426

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

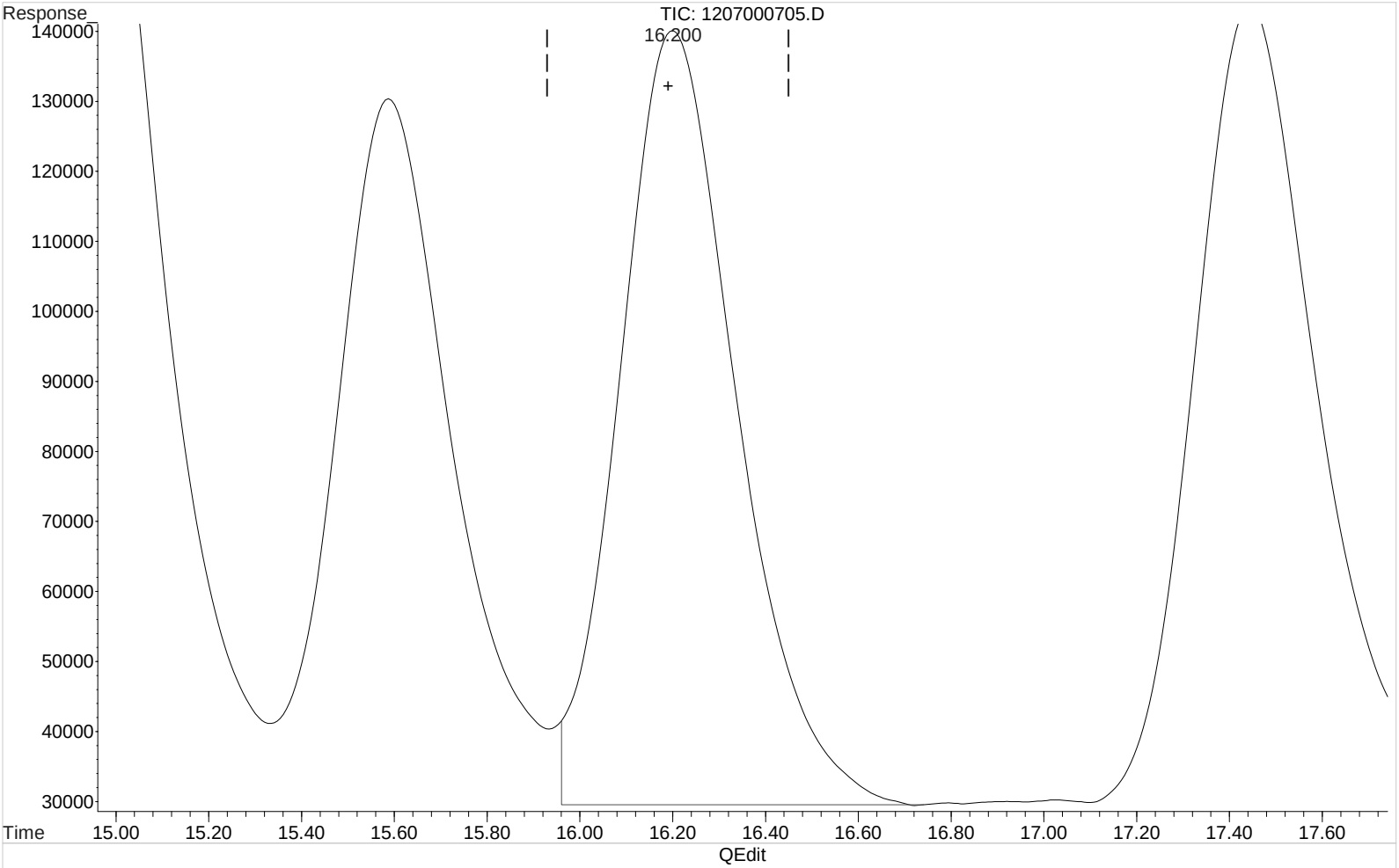
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.200min 48.909 ug/L

response 1926694

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

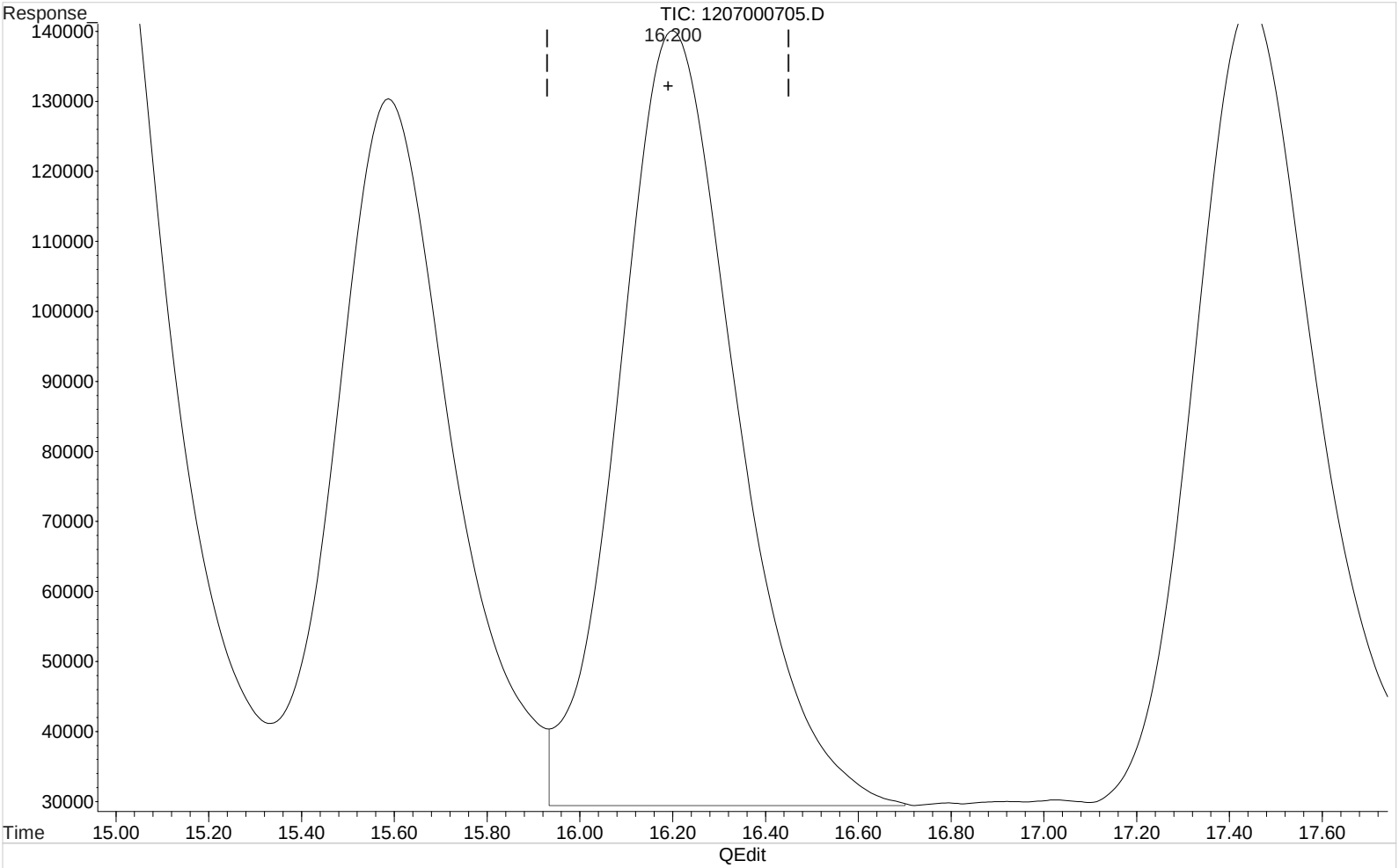
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.200min 49.519 ug/L m

response 1950750

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:06:56 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
18)	S	1-Chloro-3-Nitrobenzene	29.688	2222660	98.517	ug/L	m
		Target Compounds					
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	4.788	1216166	103.579	ug/L	
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	8.381	1985238	97.807	ug/L	m
5)	T	1,3,5-TNB	10.521	4433120	97.549	ug/L	m
6)	T	1,3-DNB	13.861	5956080	95.830	ug/L	
7)	T	3,5-Dinitroaniline	14.975	4770181	98.935	ug/L	m
8)	T	Tetryl	15.588	3353341	99.774	ug/L	m
9)	T	Nitrobenzene	16.201	3828698	97.660	ug/L	m
10)	T	2,4,6-TNT	17.441	4139905	101.107	ug/L	
11)	T	4-Amino-2,6-DNT	19.215	2969829	103.131	ug/L	m
12)	T	2-Amino-4,6-DNT	20.048	4166626	93.333	ug/L	
13)	T	2,6-DNT	21.748	2380424	NoCal	ug/L	m
14)	T	2,4-DNT	22.201	5893843	101.023	ug/L	m
15)	T	2-NT	25.321	1803120	100.899	ug/L	
16)	T	4-NT	26.241	1643208	102.283	ug/L	m
17)	T	3-NT	27.361	2049432	101.964	ug/L	m

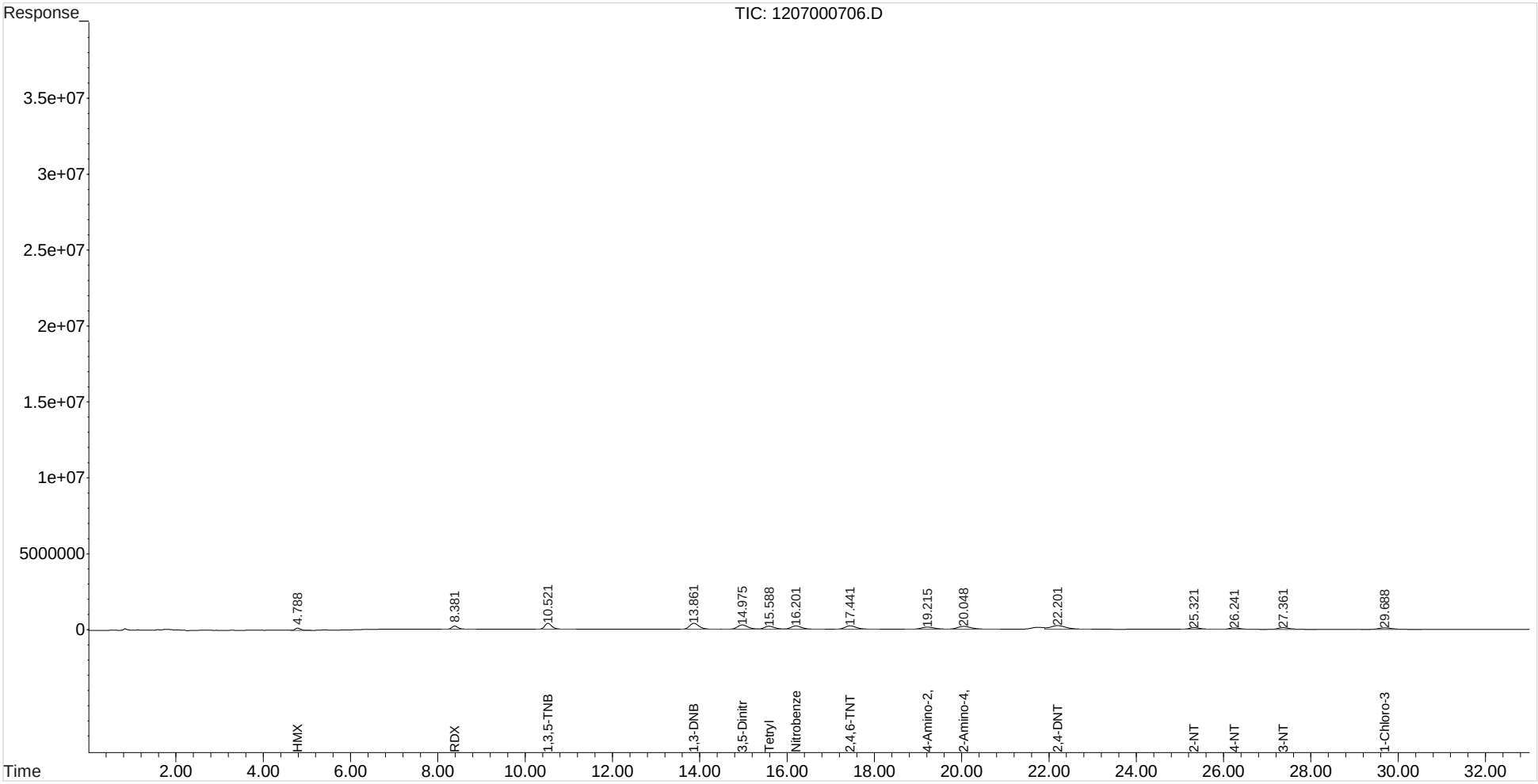
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:06:56 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

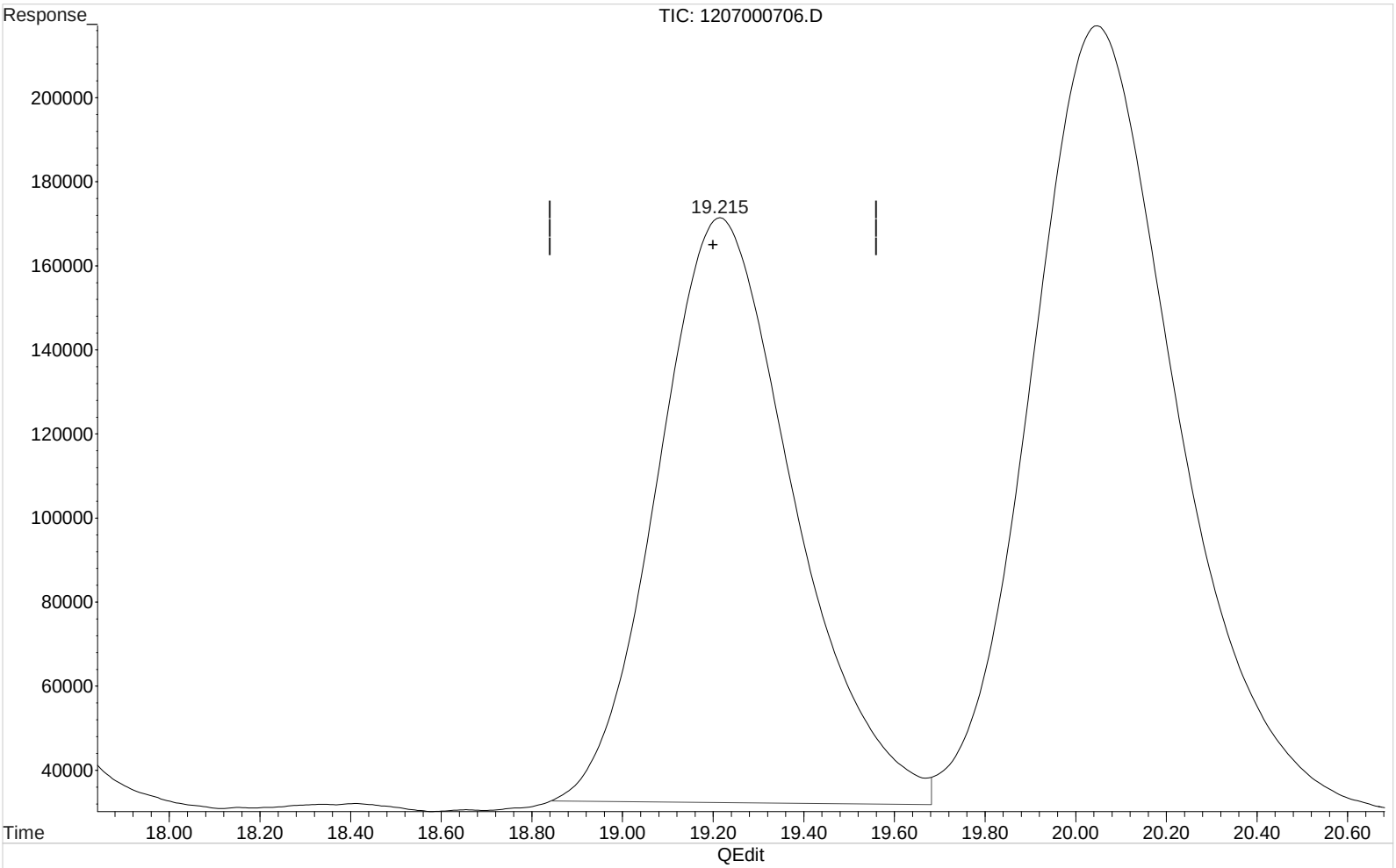


(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(11) 4-Amino-2,6-DNT (T)

19.215min 100.578 ug/L

response 2896316

Manual Integration:

Before

12/08/16

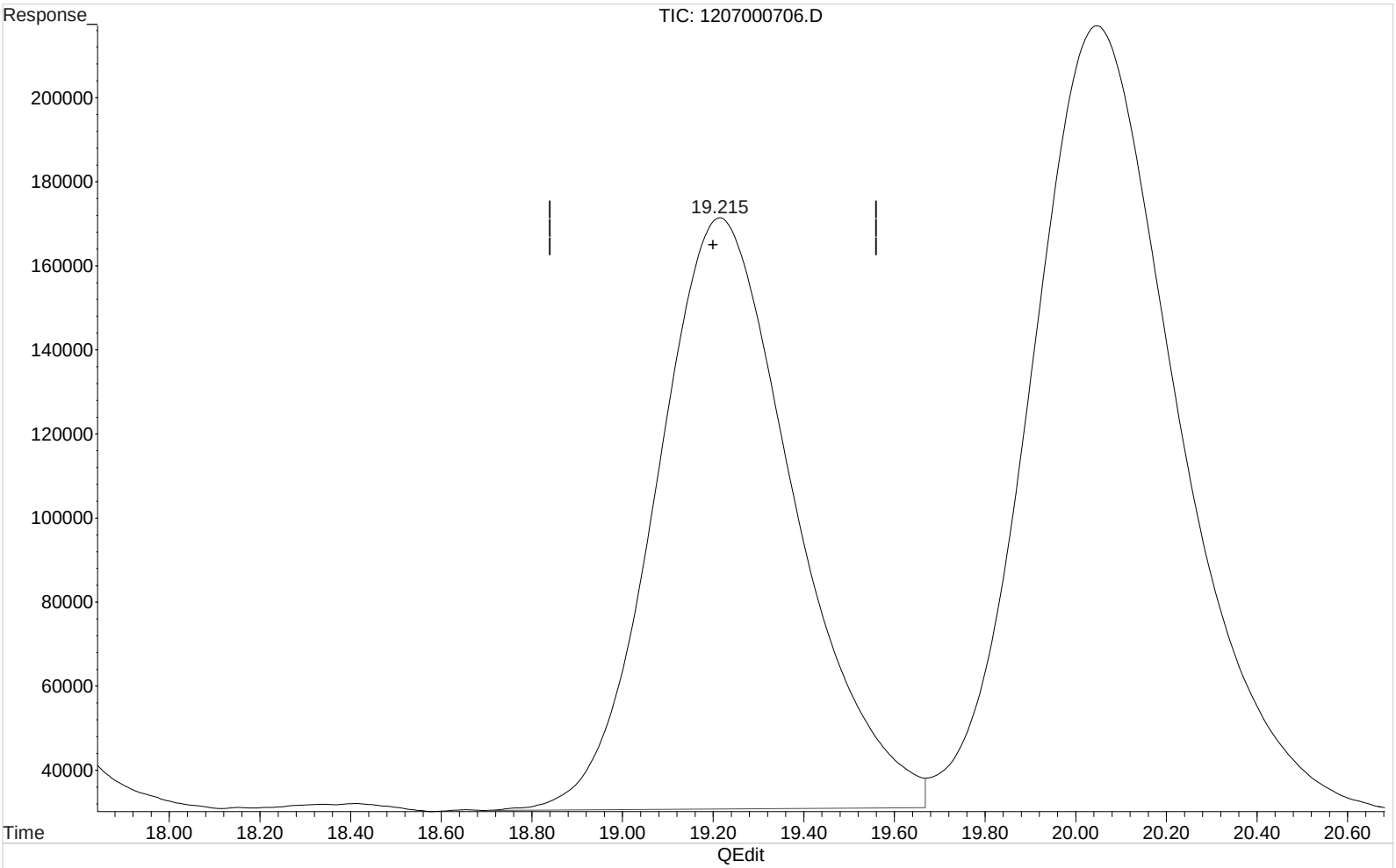
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(11) 4-Amino-2,6-DNT (T)

19.215min 103.131 ug/L m

response 2969829

Manual Integration:

After

BLC

12/08/16

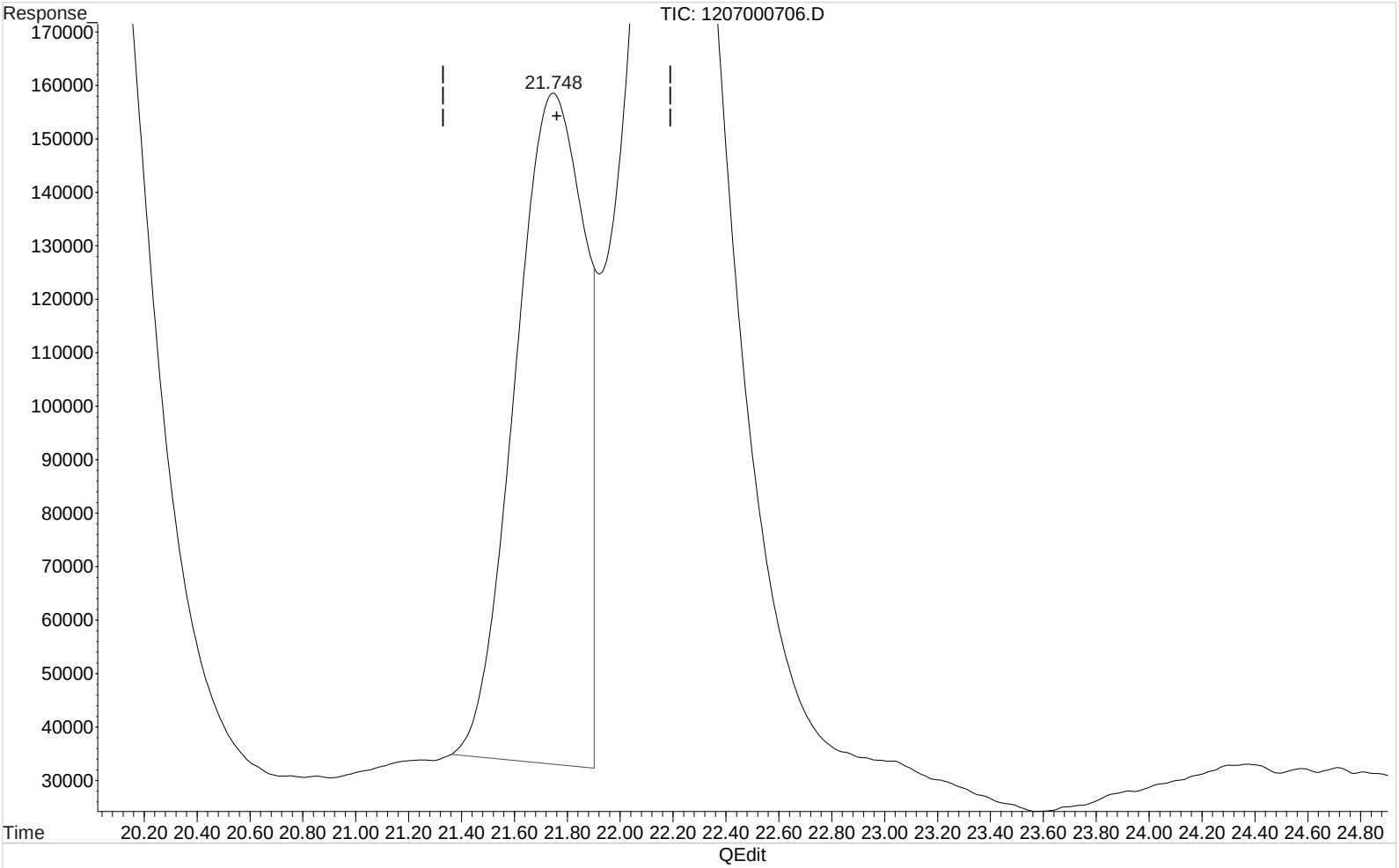
(+) = Expected Retention Time

(b)(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.748min 0.000 ug/L

response 2294444

Manual Integration:

Before

12/08/16

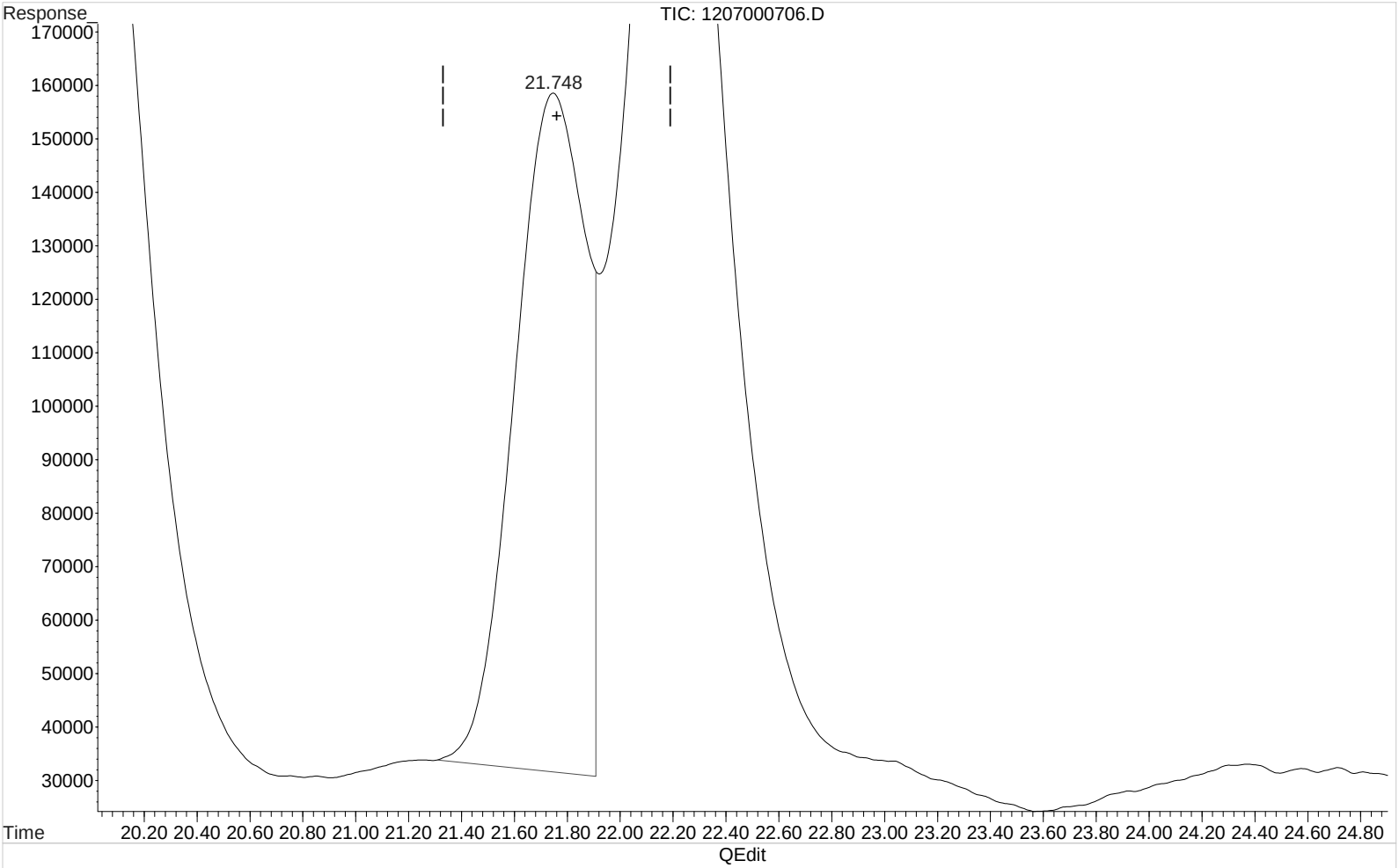
(+) = Expected Retention Time

1st (b)(6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.748min 0.000 ug/L m

response 2380424

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

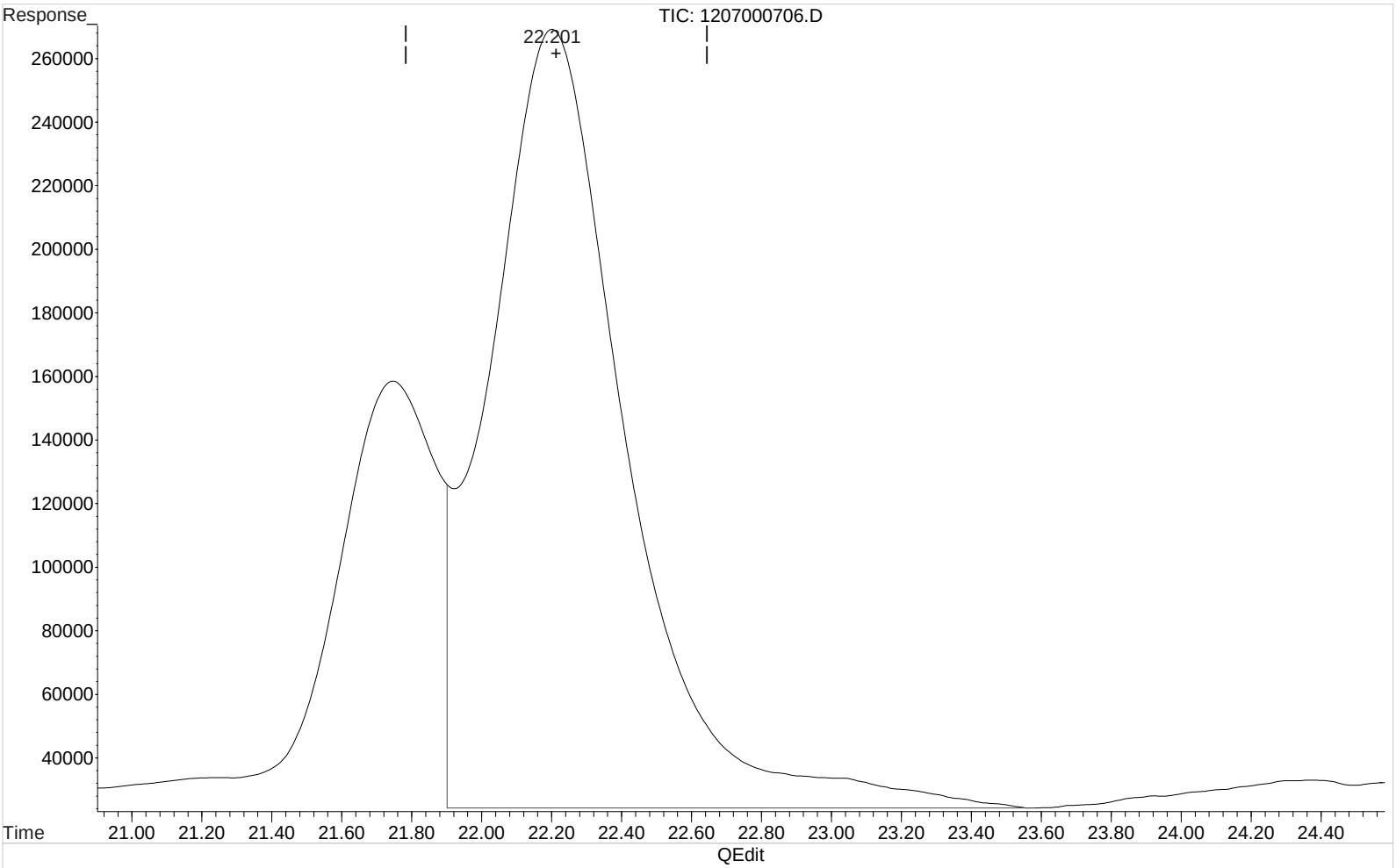
Quantitation Report (Qedit)

1st (b)(6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.201min 114.241 ug/L

response 6665030

Manual Integration:

Before

12/08/16

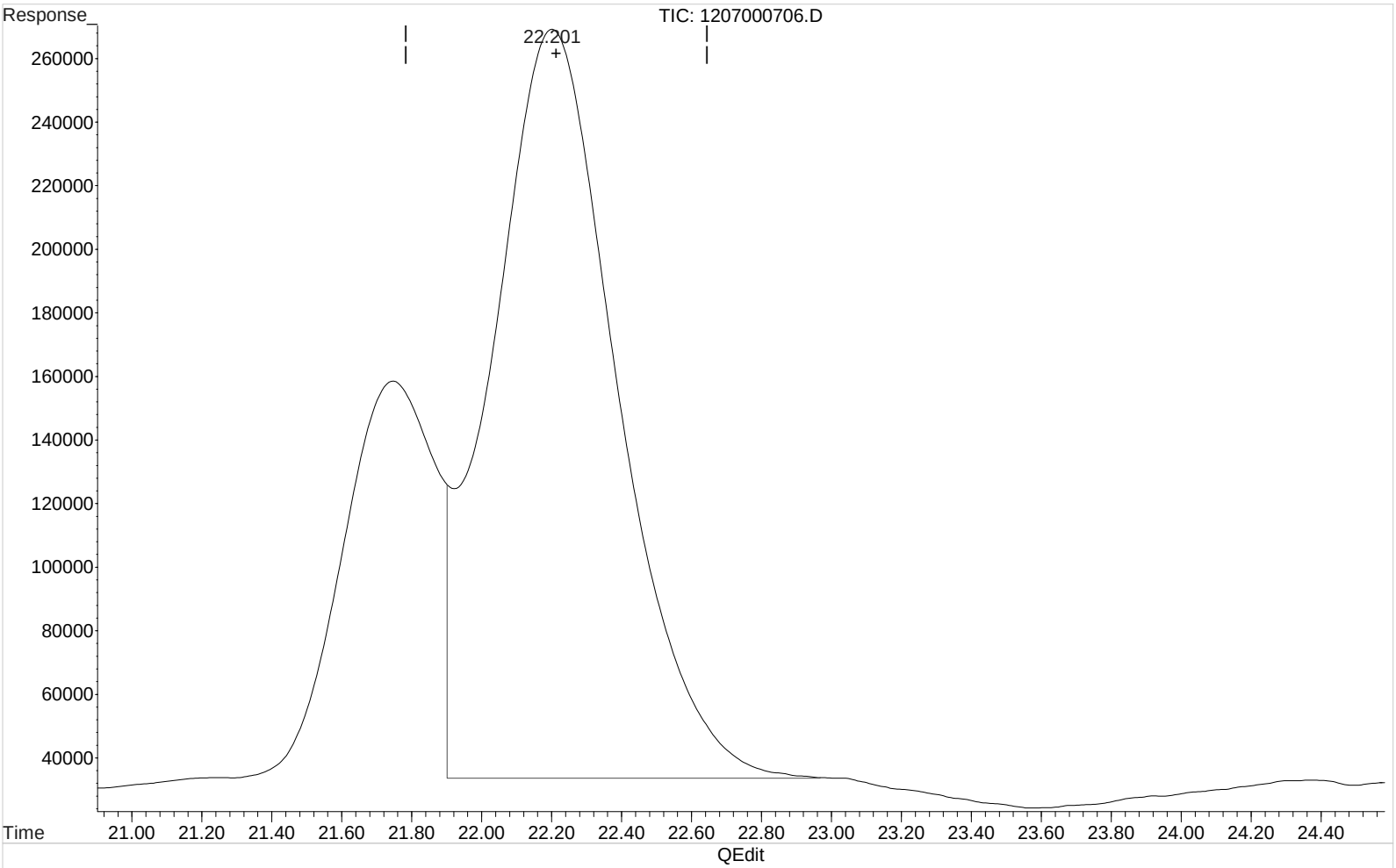
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(14) 2,4-DNT (T)

22.201min 101.023 ug/L m

response 5893843

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

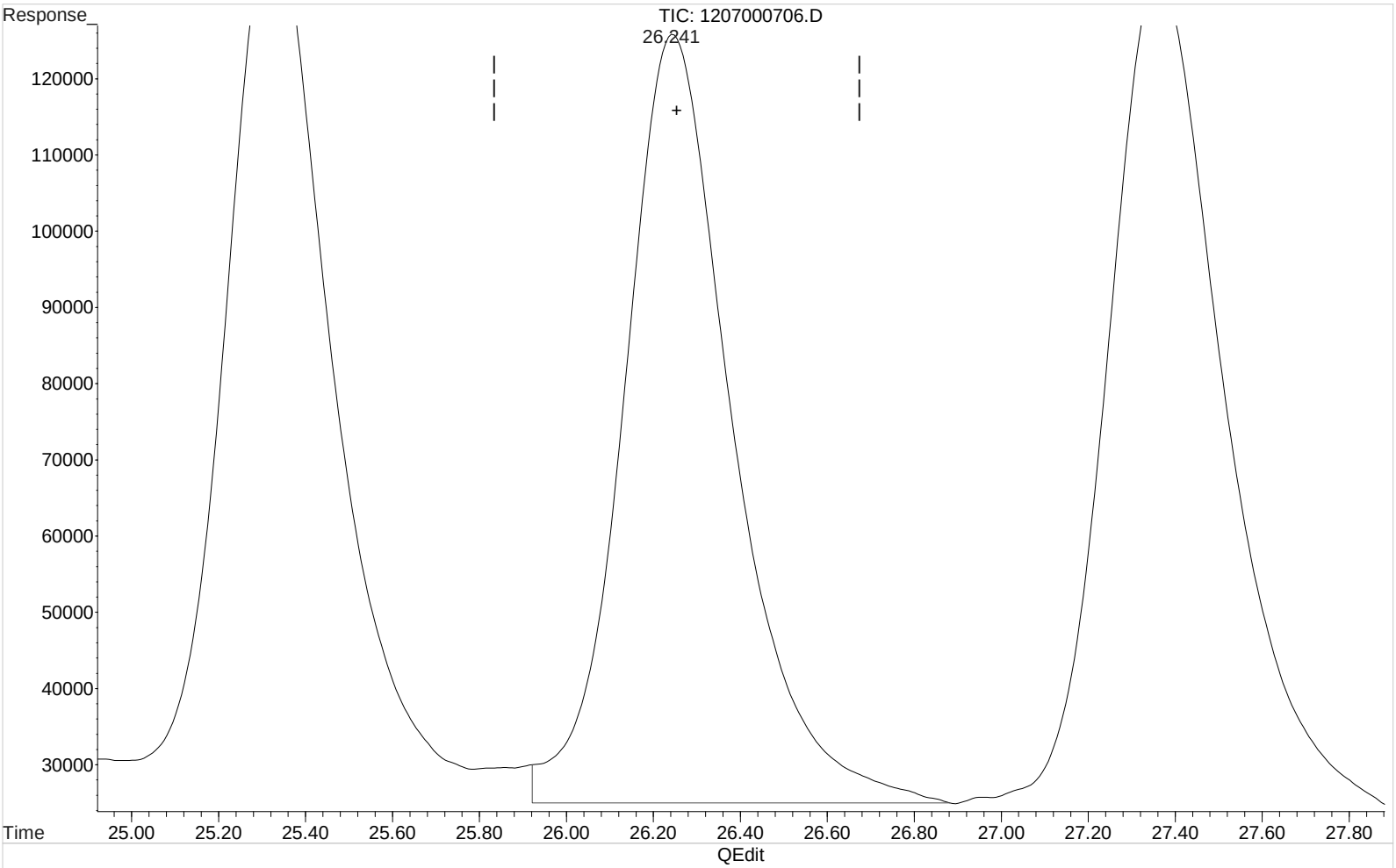
Quantitation Report (Qedit)

1st (b) (6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.241min 109.482 ug/L

response 1758863

Manual Integration:

Before

12/08/16

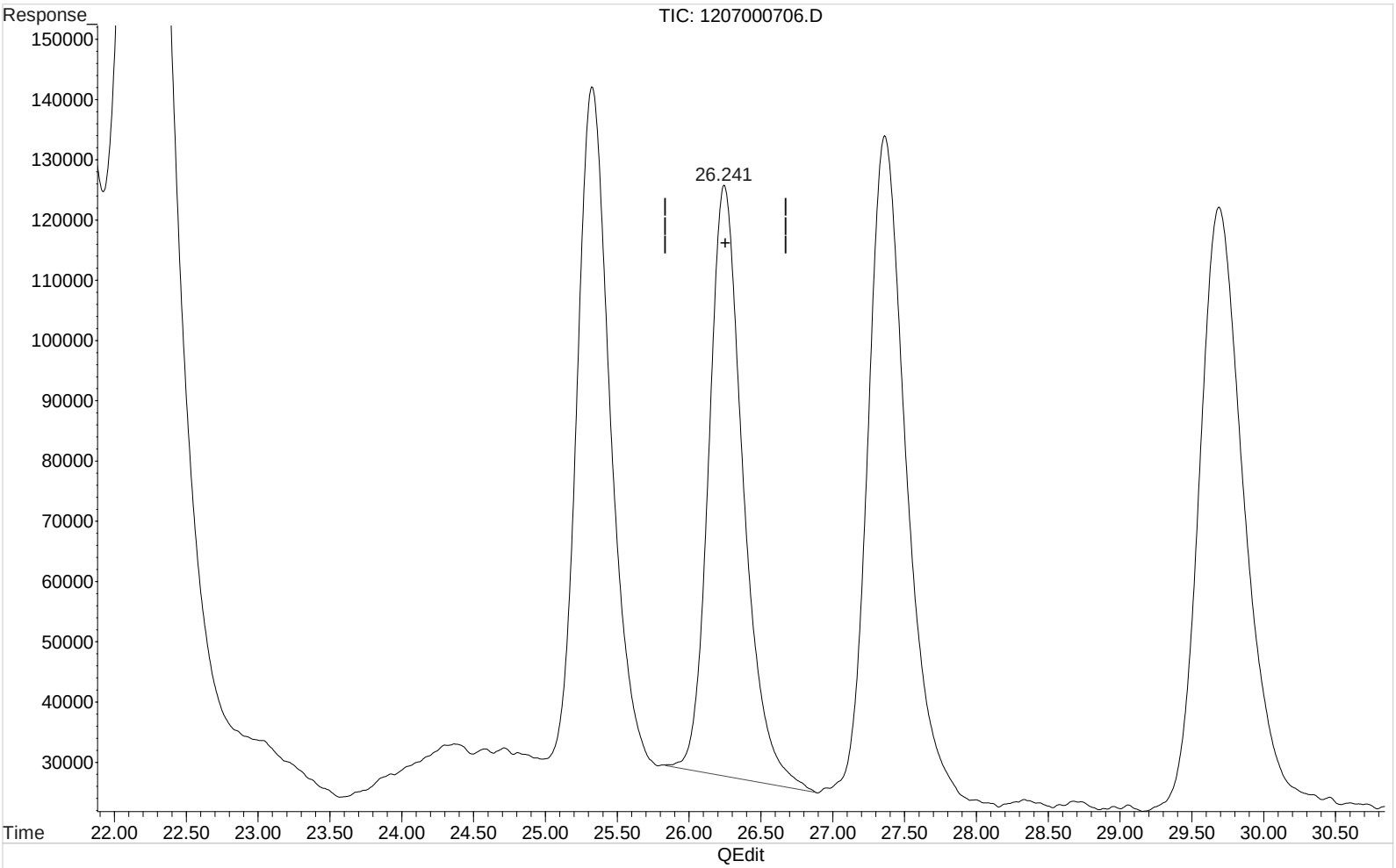
(+) = Expected Retention Time

1st (b) (6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(16) 4-NT (T)

26.241min 102.283 ug/L m

response 1643208

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

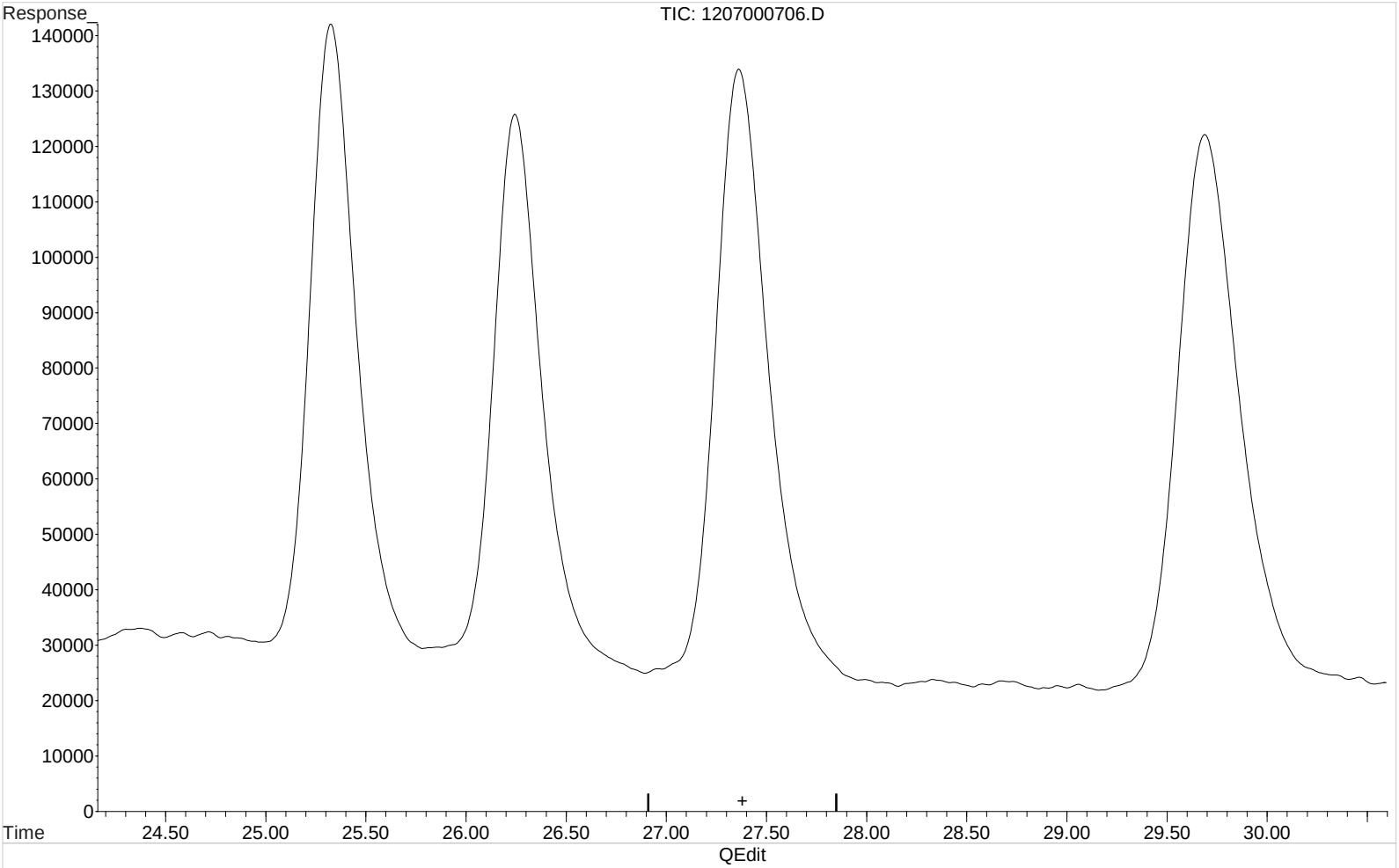
Quantitation Report (Qedit)

1st (b)(6) 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

0.000min 0.000 ug/L d

response 0

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b)(6)

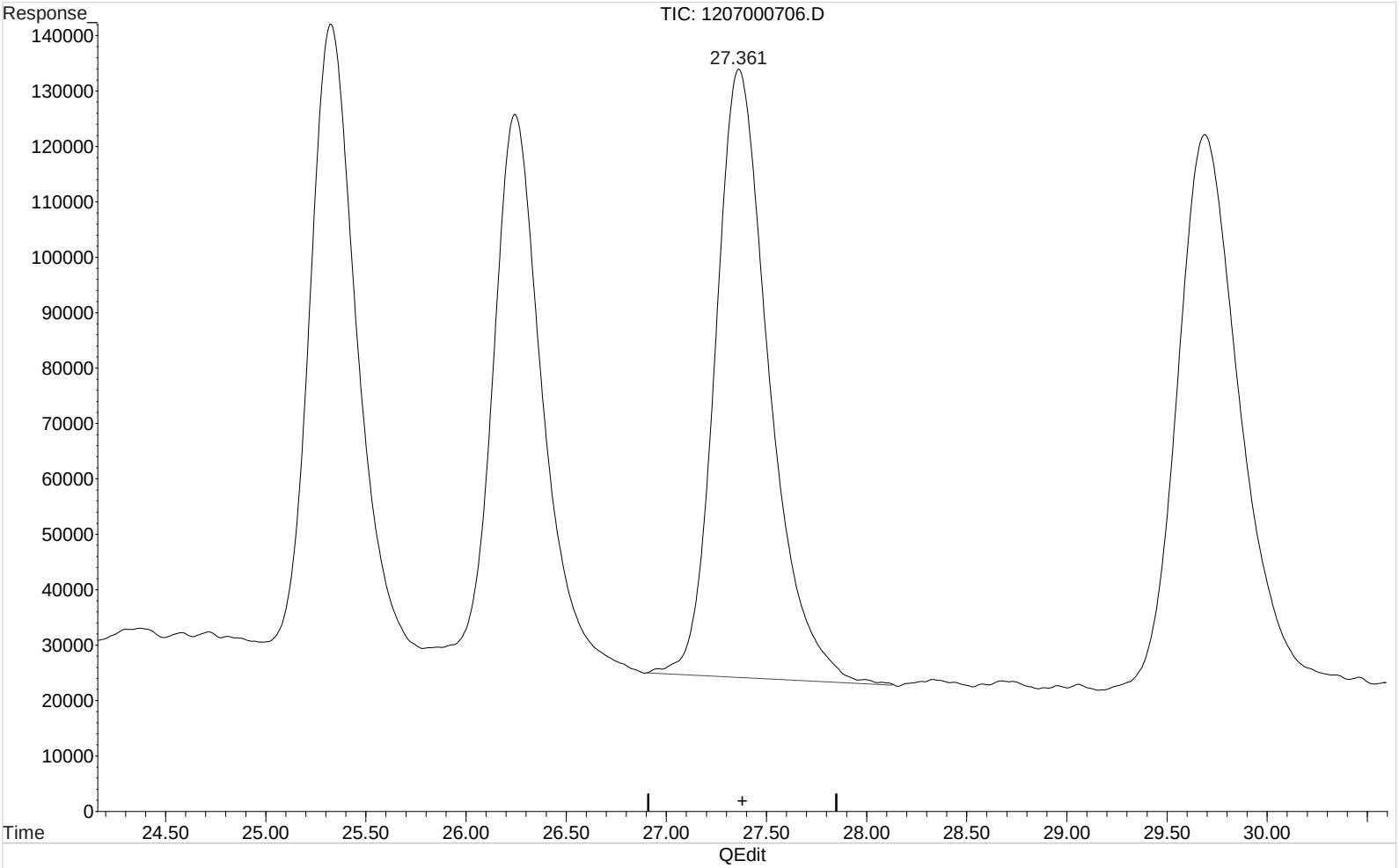
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.361min 101.964 ug/L m

response 2049432

Manual Integration:

After

Accidentally deleted, reintegrated

12/08/16

(+) = Expected Retention Time

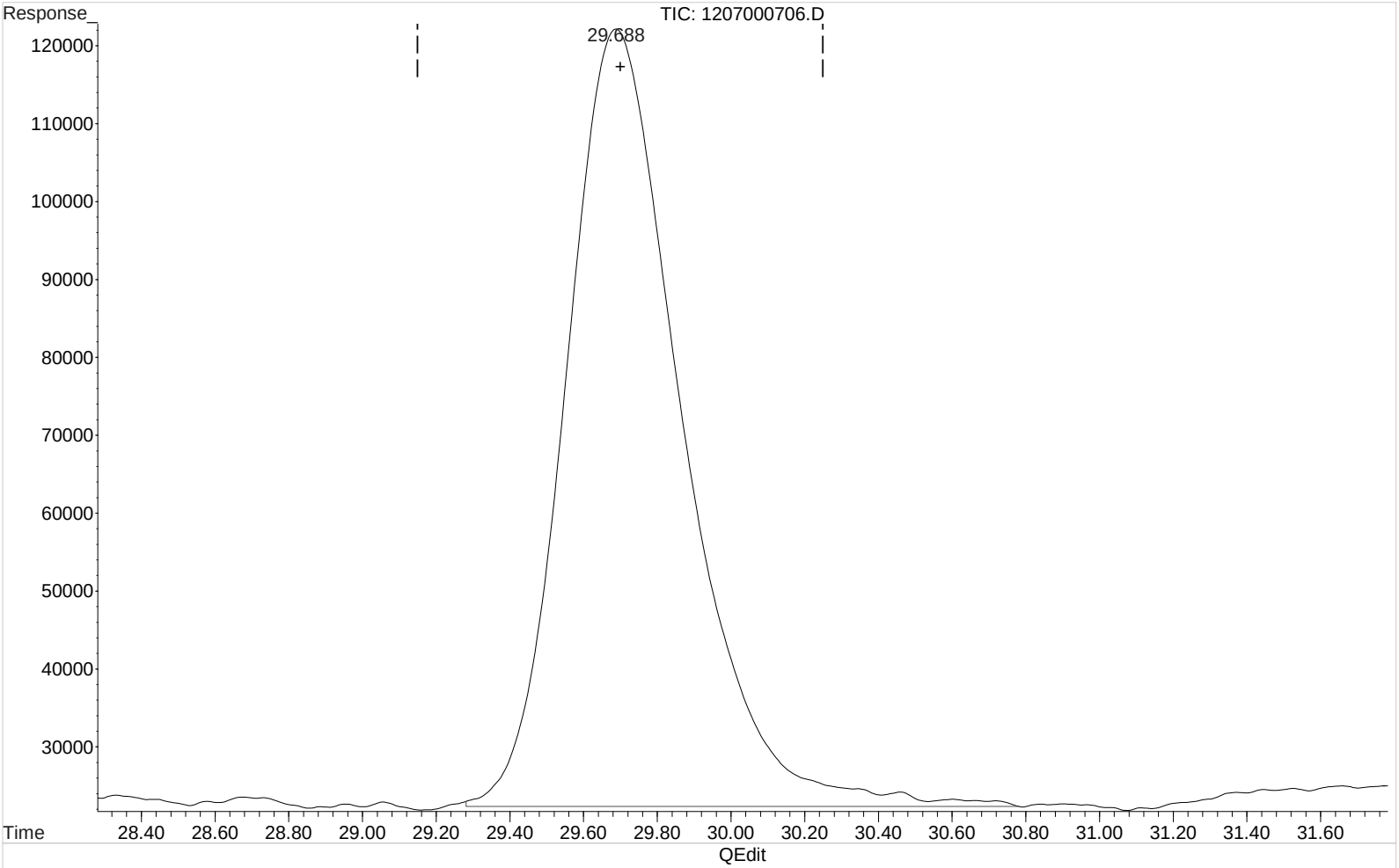
Quantitation Report (Qedit)

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(18) 1-Chloro-3-Nitrobenzene (S)

29.688min 97.323 ug/L

response 2195729

Manual Integration:

Before

12/08/16

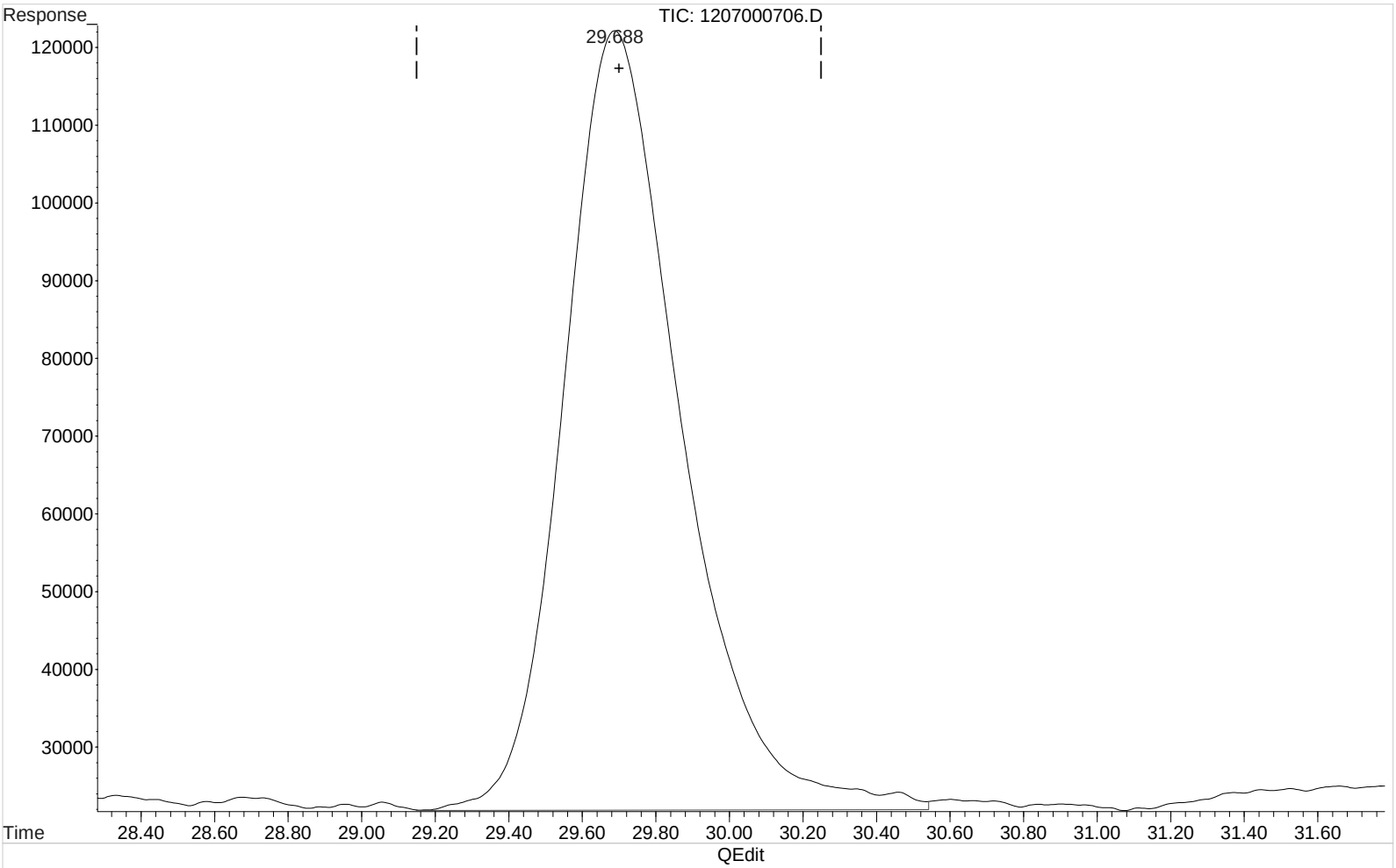
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(18) 1-Chloro-3-Nitrobenzene (S)

29.688min 98.517 ug/L m

response 2222660

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b)(6)

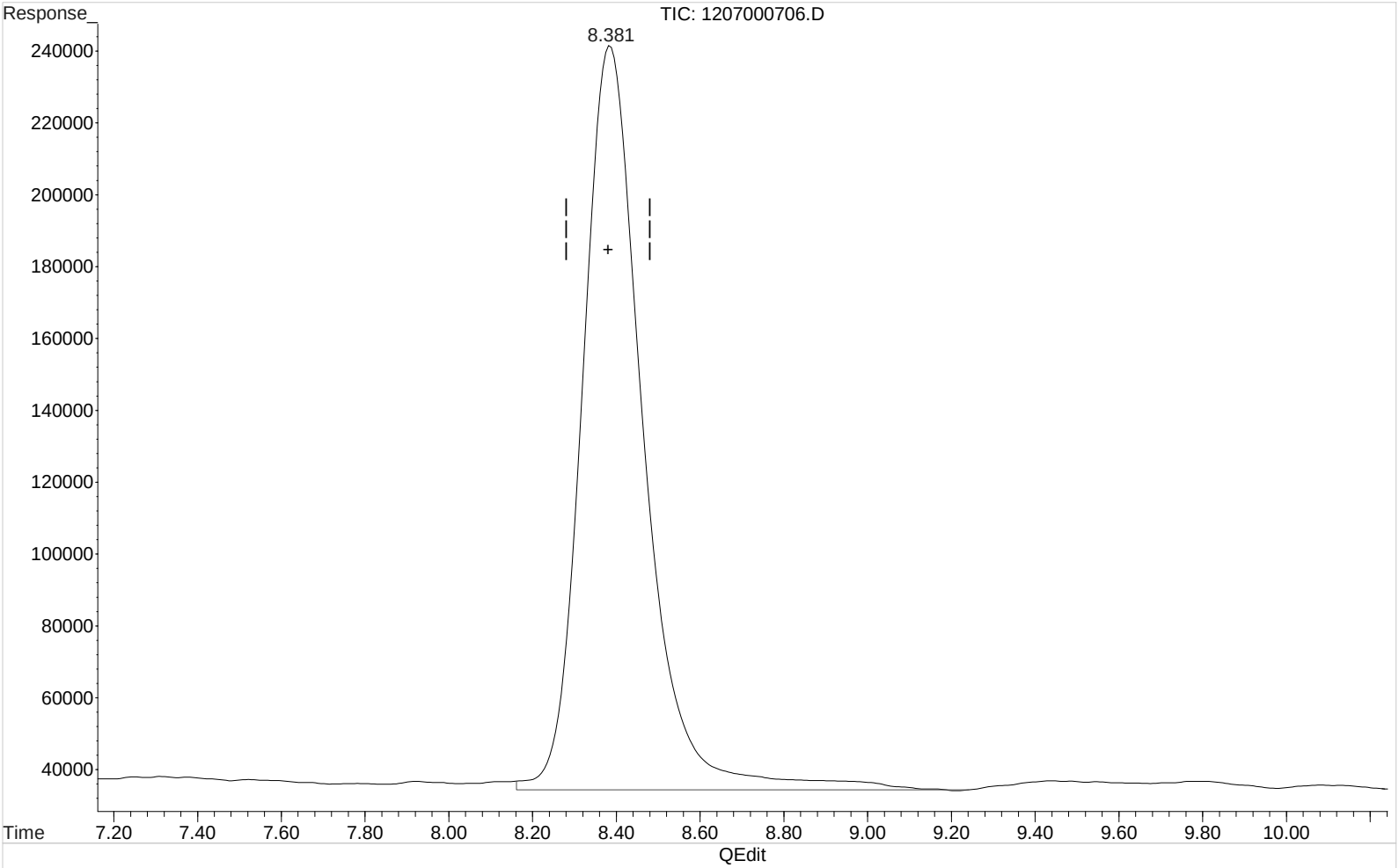
1st 12/08/16

2n 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(4) RDX (T)

8.381min 104.100 ug/L

response 2112981

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

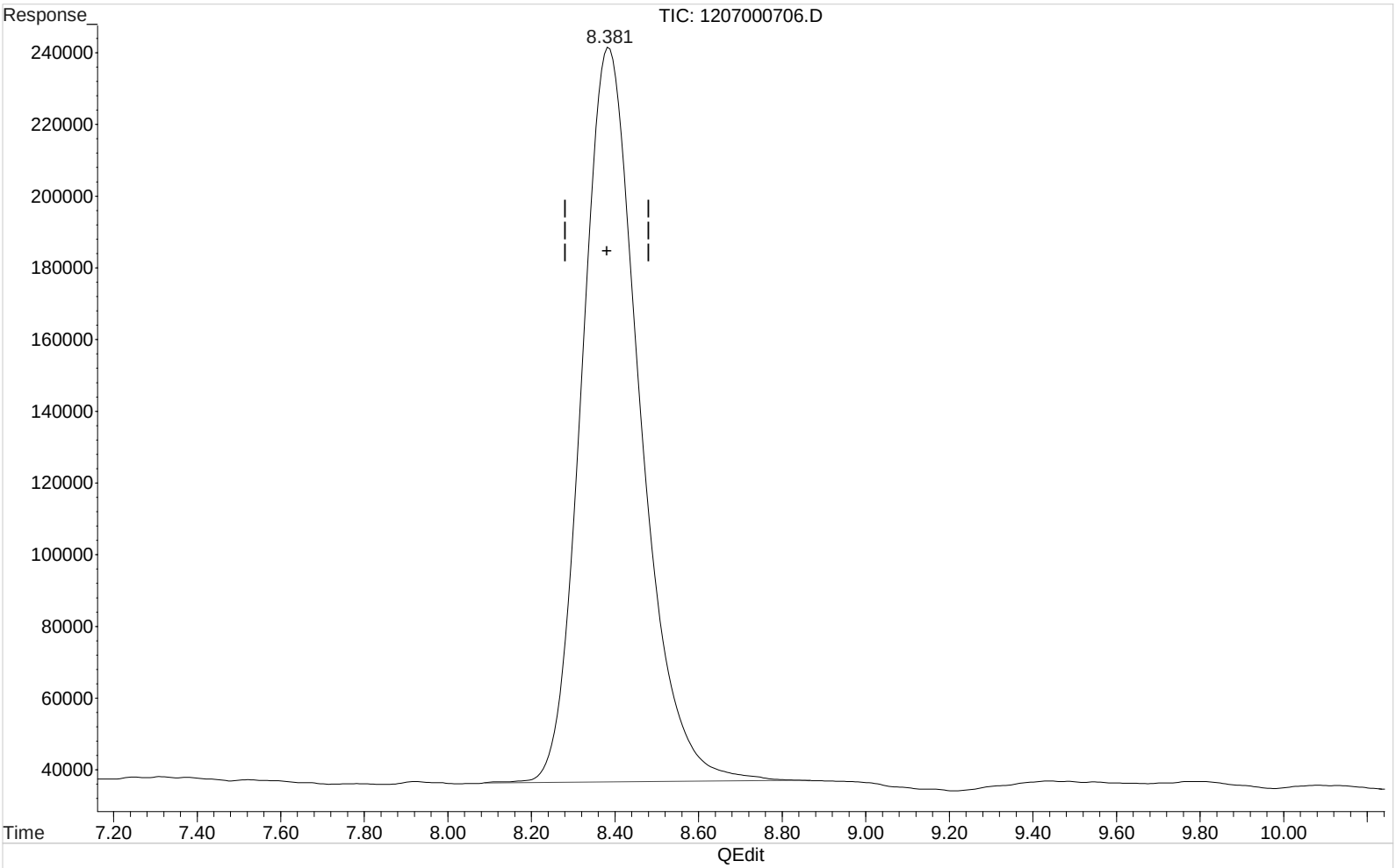
Quantitation Report (Qedit)

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(4) RDX (T)

8.381min 97.807 ug/L m

response 1985238

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

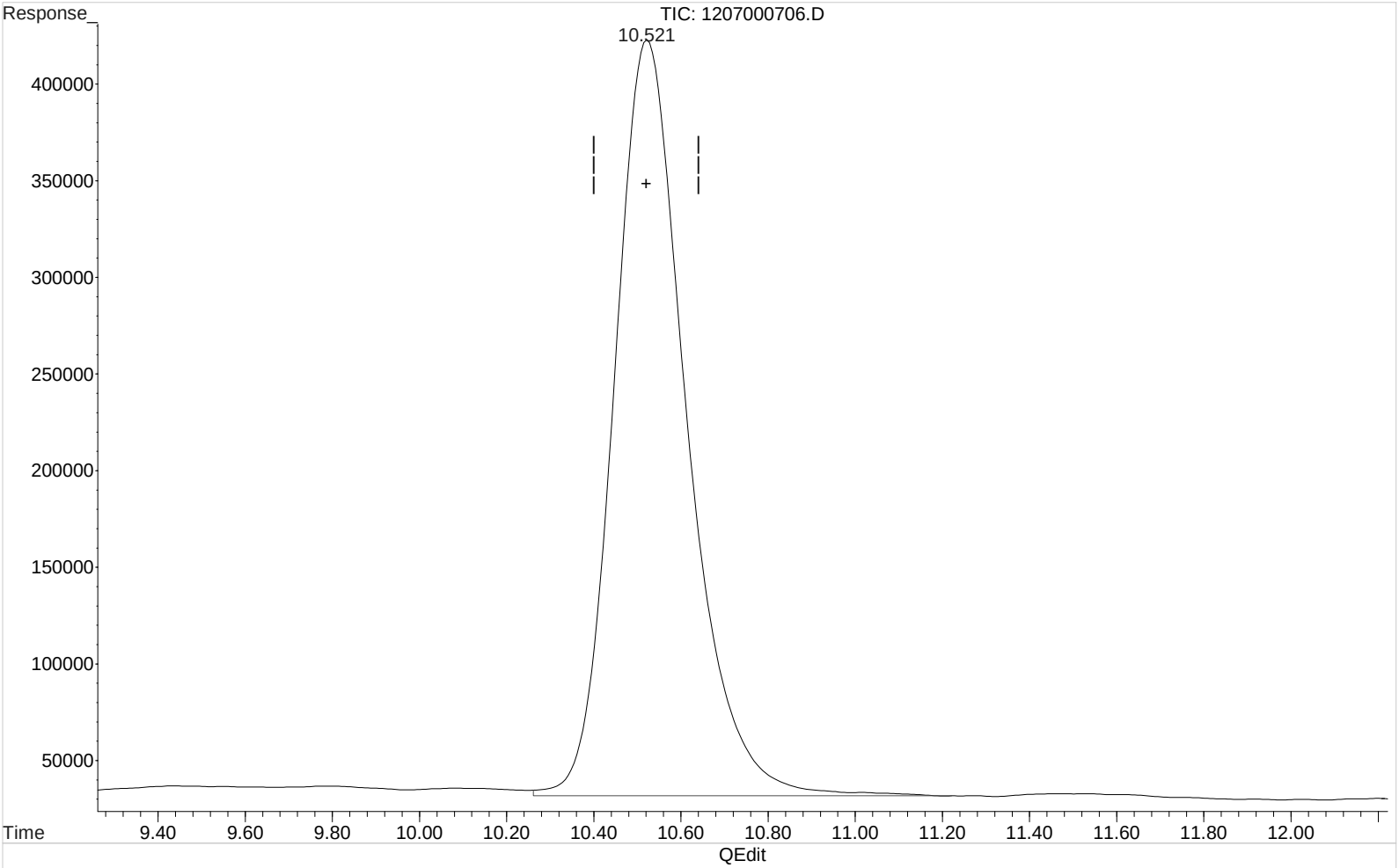
Quantitation Report (Qedit)

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(5) 1,3,5-TNB (T)

10.521min 99.668 ug/L

response 4529404

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

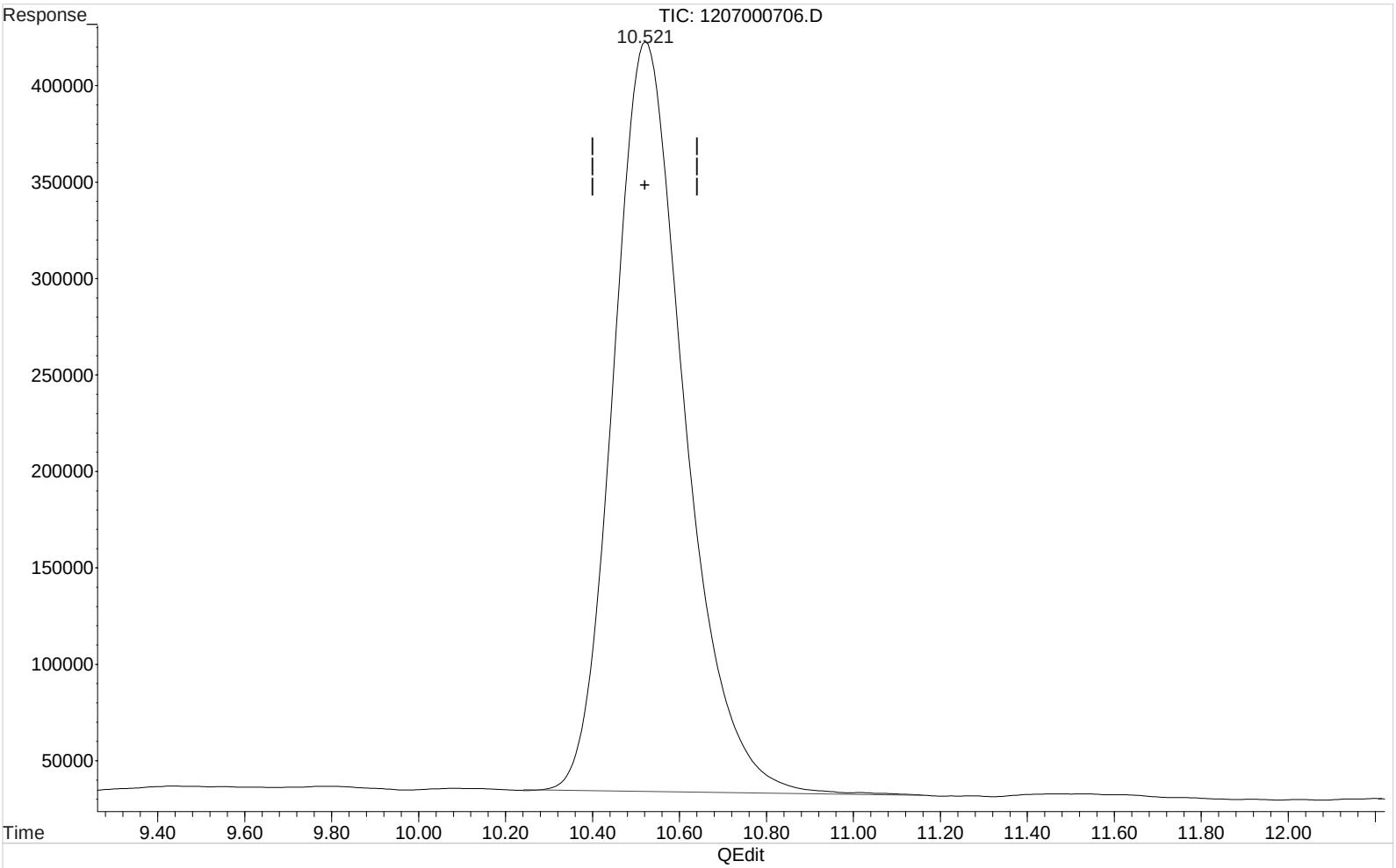
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(5) 1,3,5-TNB (T)

10.521min 97.549 ug/L m

response 4433120

Manual Integration:

After

BLC

12/08/16

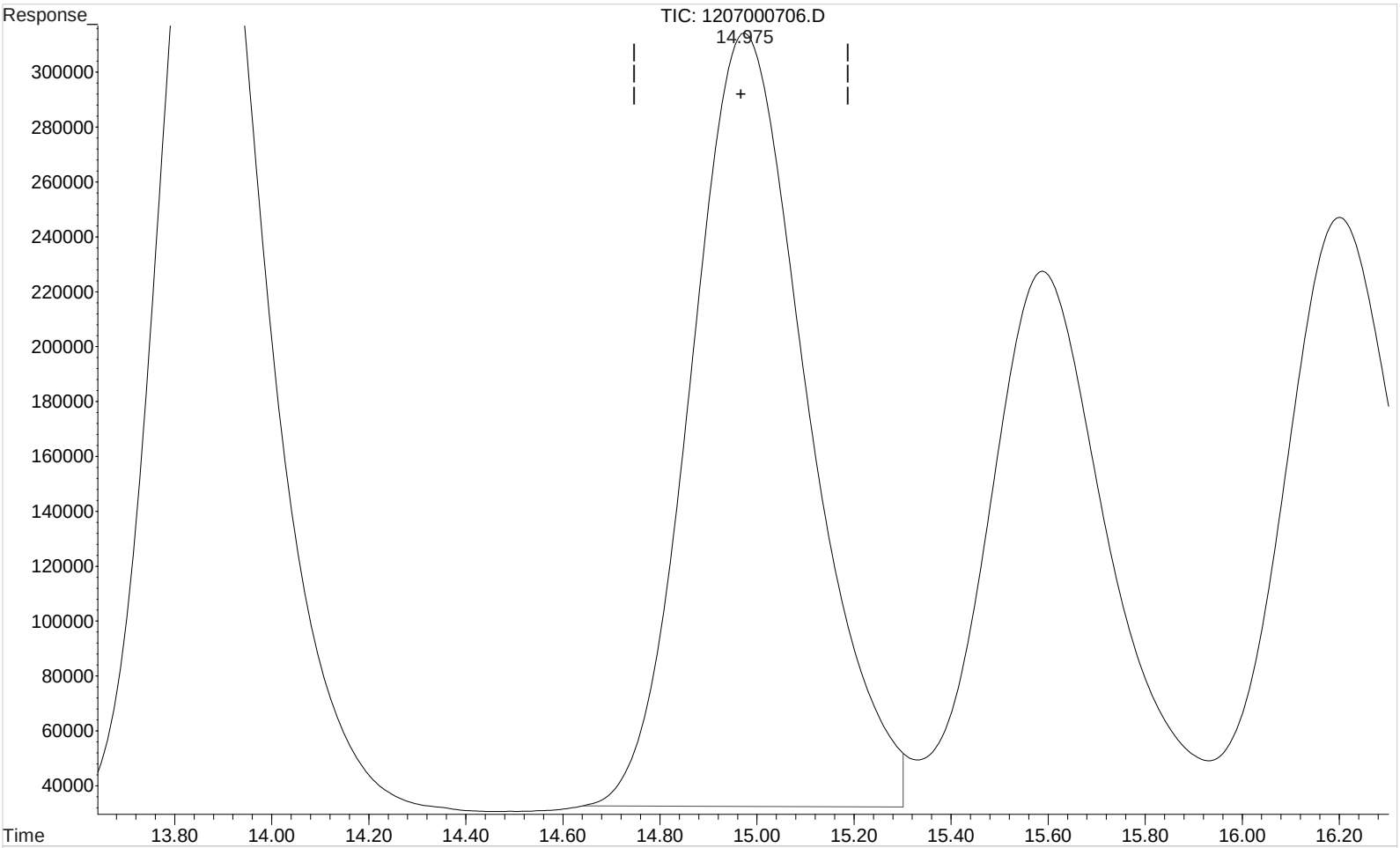
(+) = Expected Retention Time

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.975min 97.288 ug/L

response 4690794

Manual Integration:

Before

12/08/16

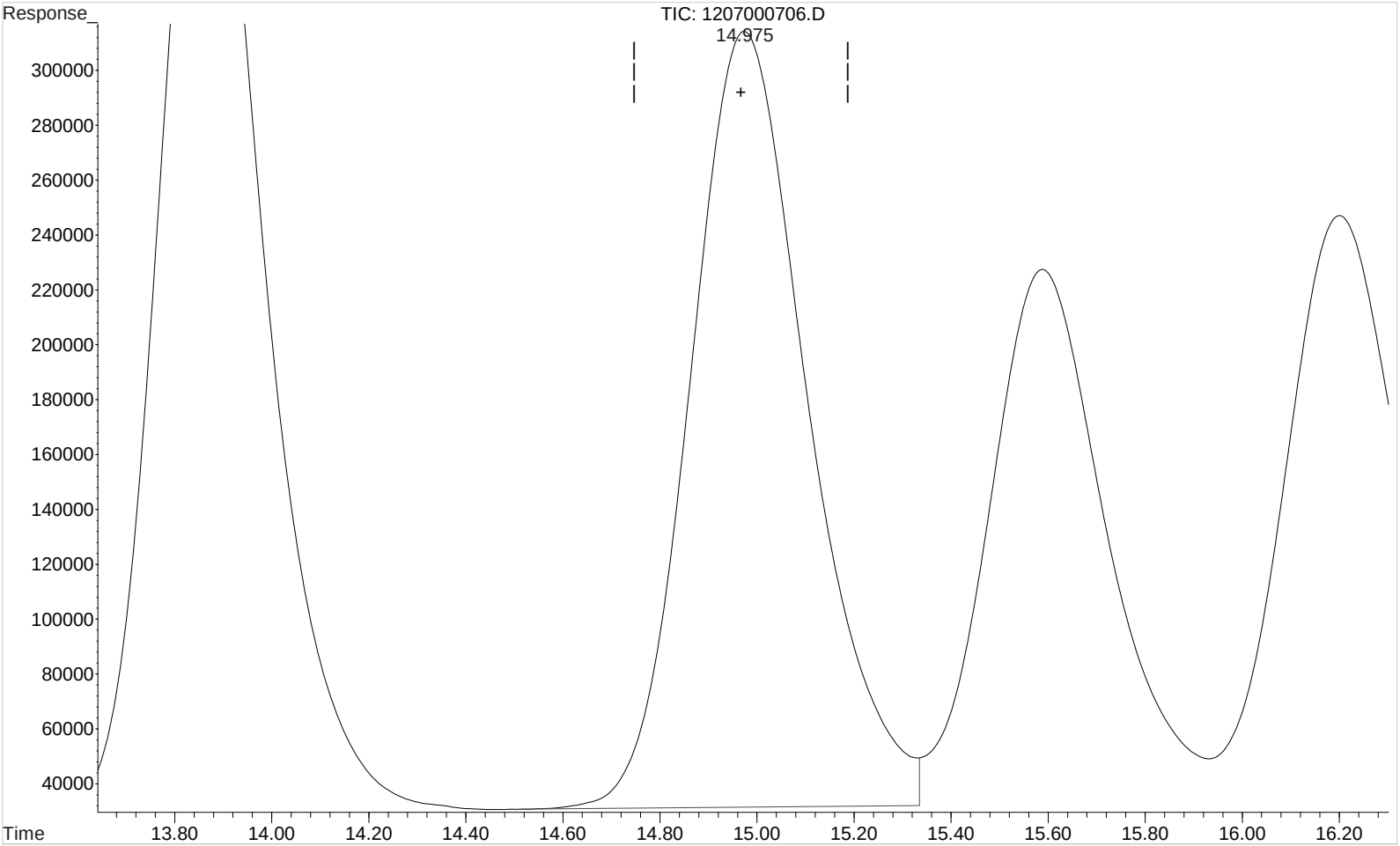
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.975min 98.935 ug/L m

response 4770181

Manual Integration:

After

BLC

12/08/16

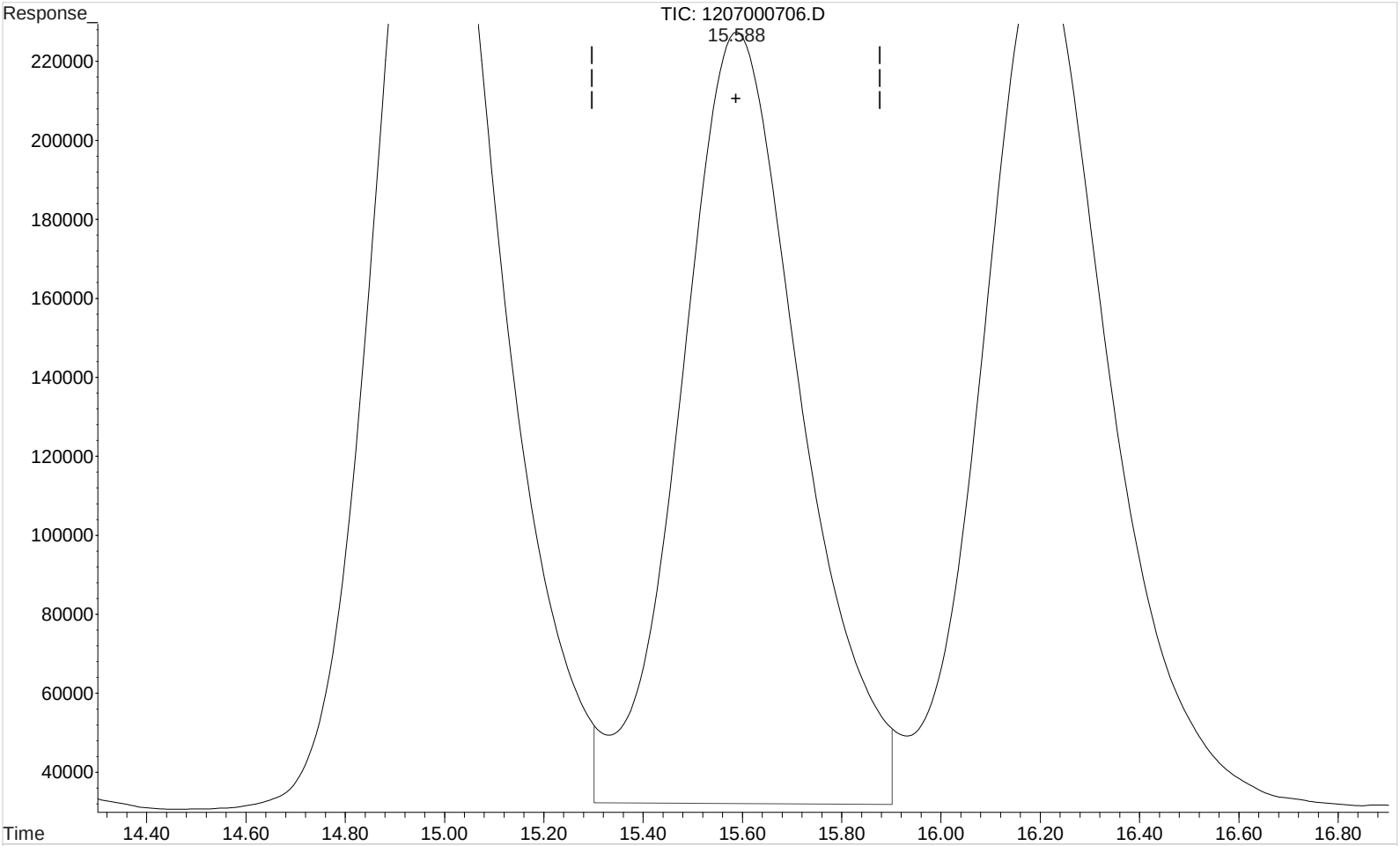
(+) = Expected Retention Time

1st (b) (6) 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(8) Tetryl (T)

15.588min 97.618 ug/L

response 3280904

Manual Integration:

Before

12/08/16

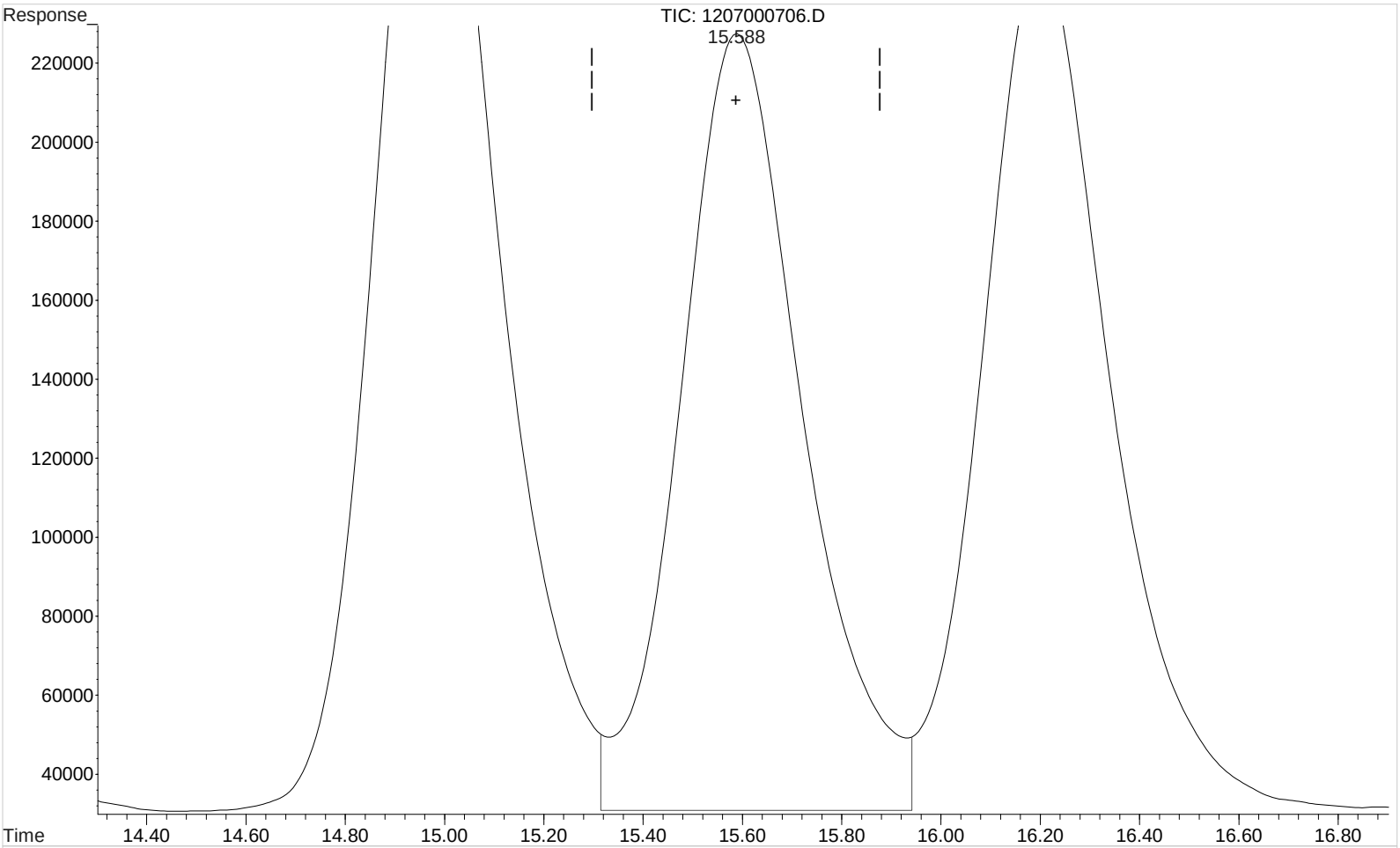
(+) = Expected Retention Time

1st (b) (6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(8) Tetryl (T)

15.588min 99.774 ug/L m

response 3353341

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

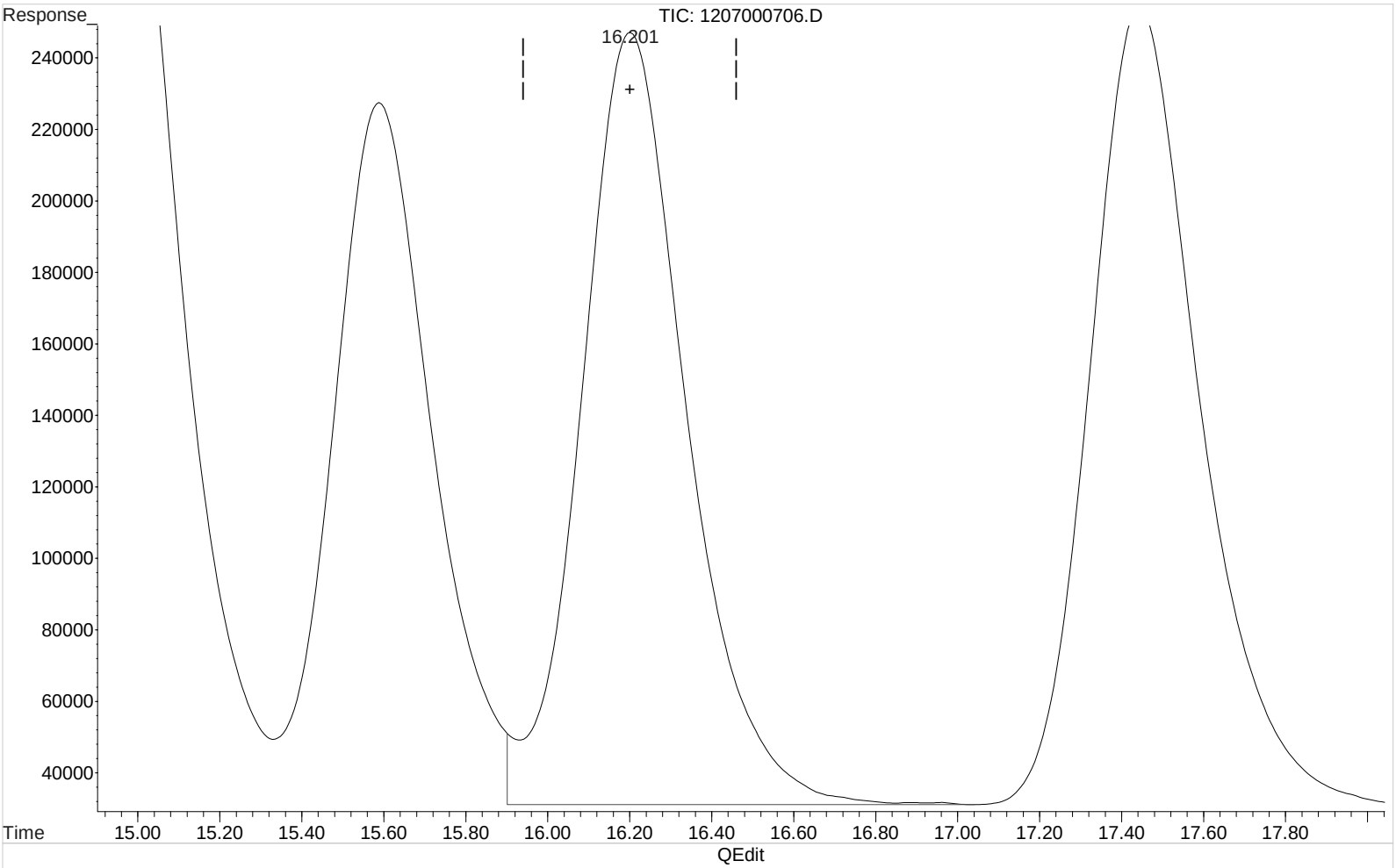
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.201min 97.938 ug/L

response 3839592

Manual Integration:

Before

12/08/16

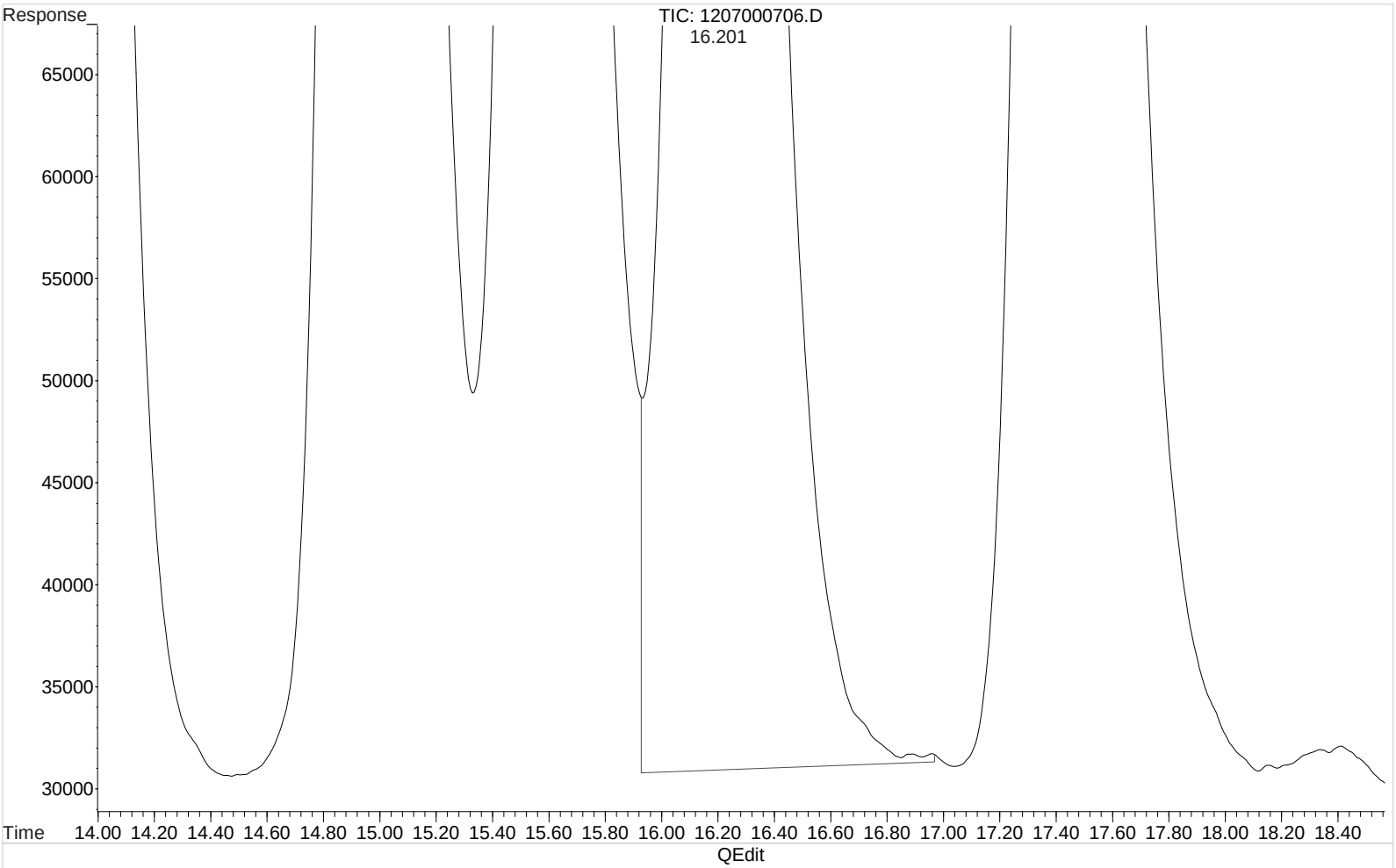
(+) = Expected Retention Time

(b) (6)
1st [redacted] 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.201min 97.226 ug/L m

response 3811670

Manual Integration:

Before

12/08/16

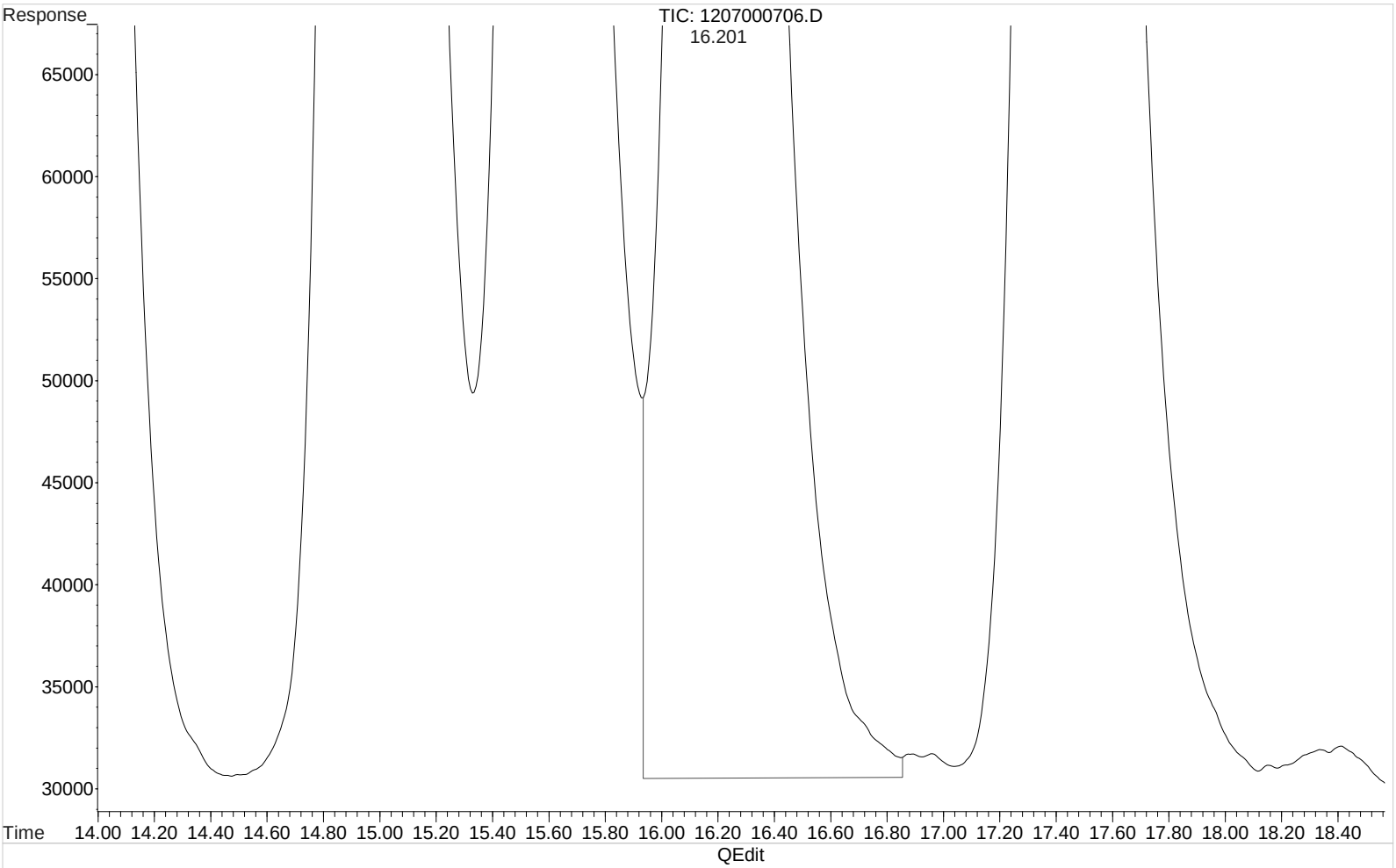
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.201min 97.660 ug/L m

response 3828698

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:13:39 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
18)	S	1-Chloro-3-Nitrobenzene	29.700	4361045	194.259	ug/L	m
		Target Compounds					
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	4.786	2435762	205.004	ug/L	
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	8.386	3921355	194.616	ug/L	
5)	T	1,3,5-TNB	10.520	8886477	197.154	ug/L	
6)	T	1,3-DNB	13.866	12031824	196.315	ug/L	
7)	T	3,5-Dinitroaniline	14.980	9487220	197.468	ug/L	m
8)	T	Tetryl	15.593	6714428	199.929	ug/L	m
9)	T	Nitrobenzene	16.206	7632300	196.210	ug/L	m
10)	T	2,4,6-TNT	17.433	8434124	205.226	ug/L	
11)	T	4-Amino-2,6-DNT	19.193	5924218	203.601	ug/L	
12)	T	2-Amino-4,6-DNT	20.026	8501432	194.761	ug/L	
13)	T	2,6-DNT	21.753	4897380	201.372	ug/L	m
14)	T	2,4-DNT	22.206	11809220	201.727	ug/L	m
15)	T	2-NT	25.326	3610858	201.453	ug/L	m
16)	T	4-NT	26.253	3198950	197.617	ug/L	m
17)	T	3-NT	27.380	4020214	198.714	ug/L	

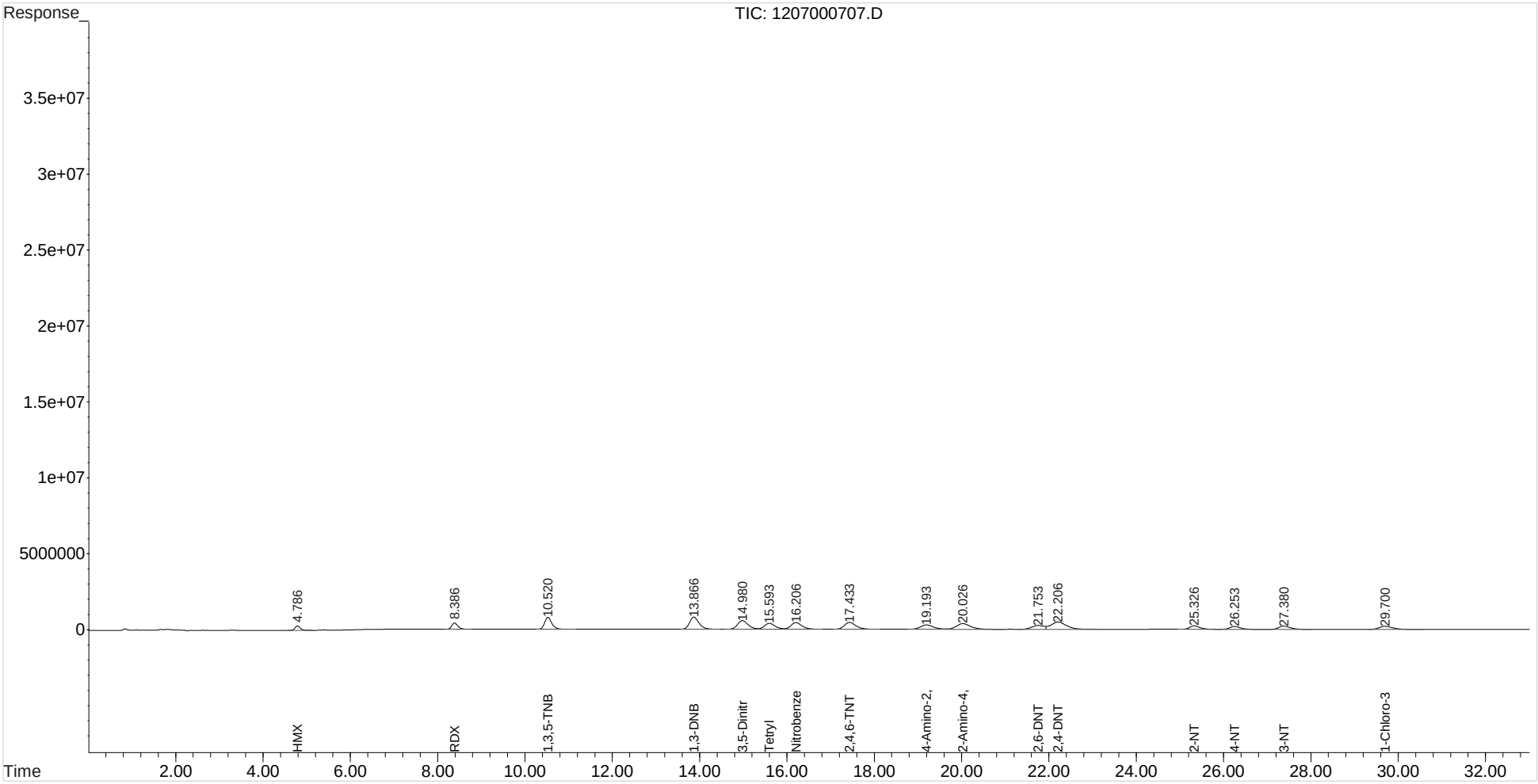
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:13:39 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

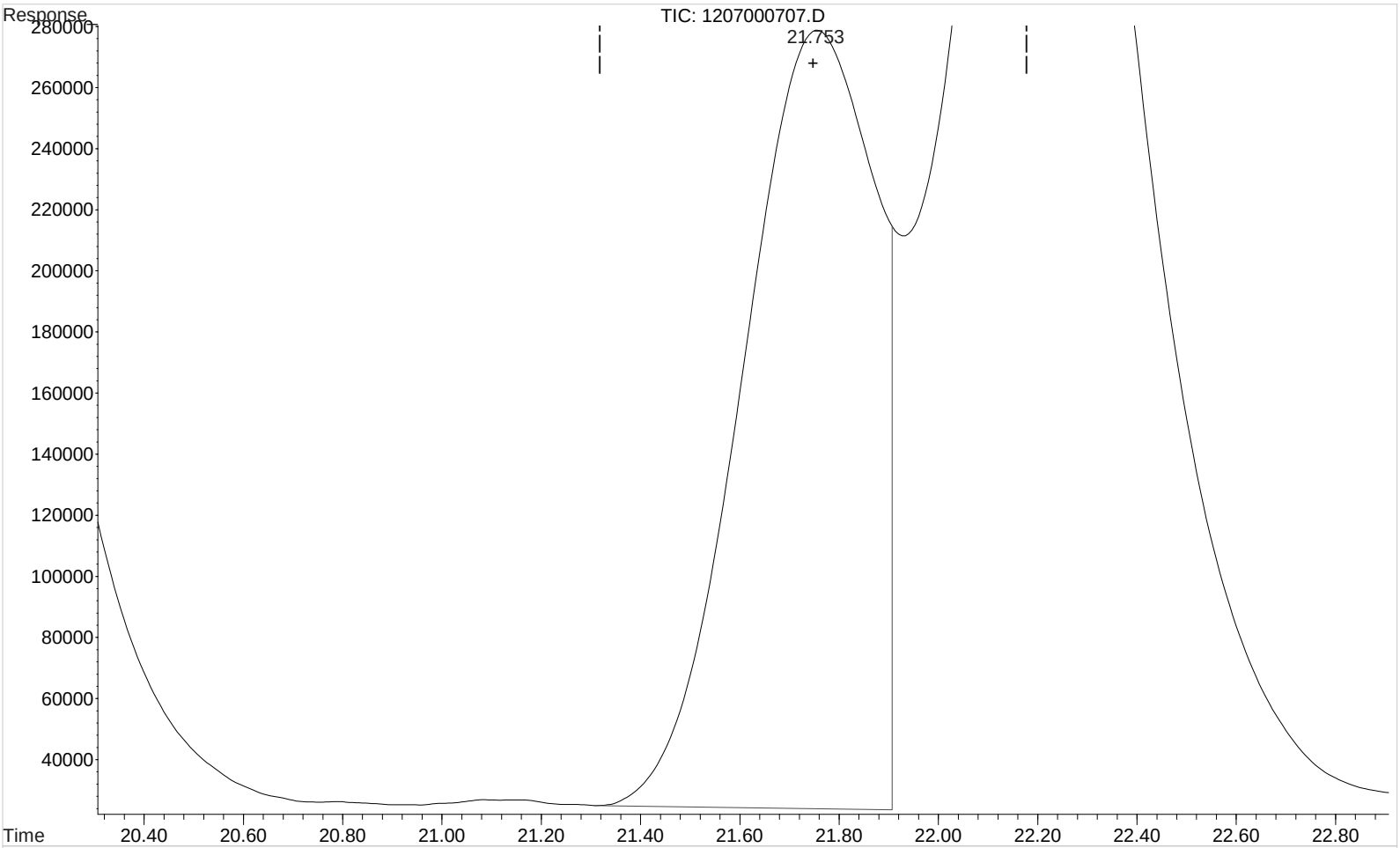


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.753min 193.577 ug/L

response 4707799

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

Quantitation Report (Qedit)

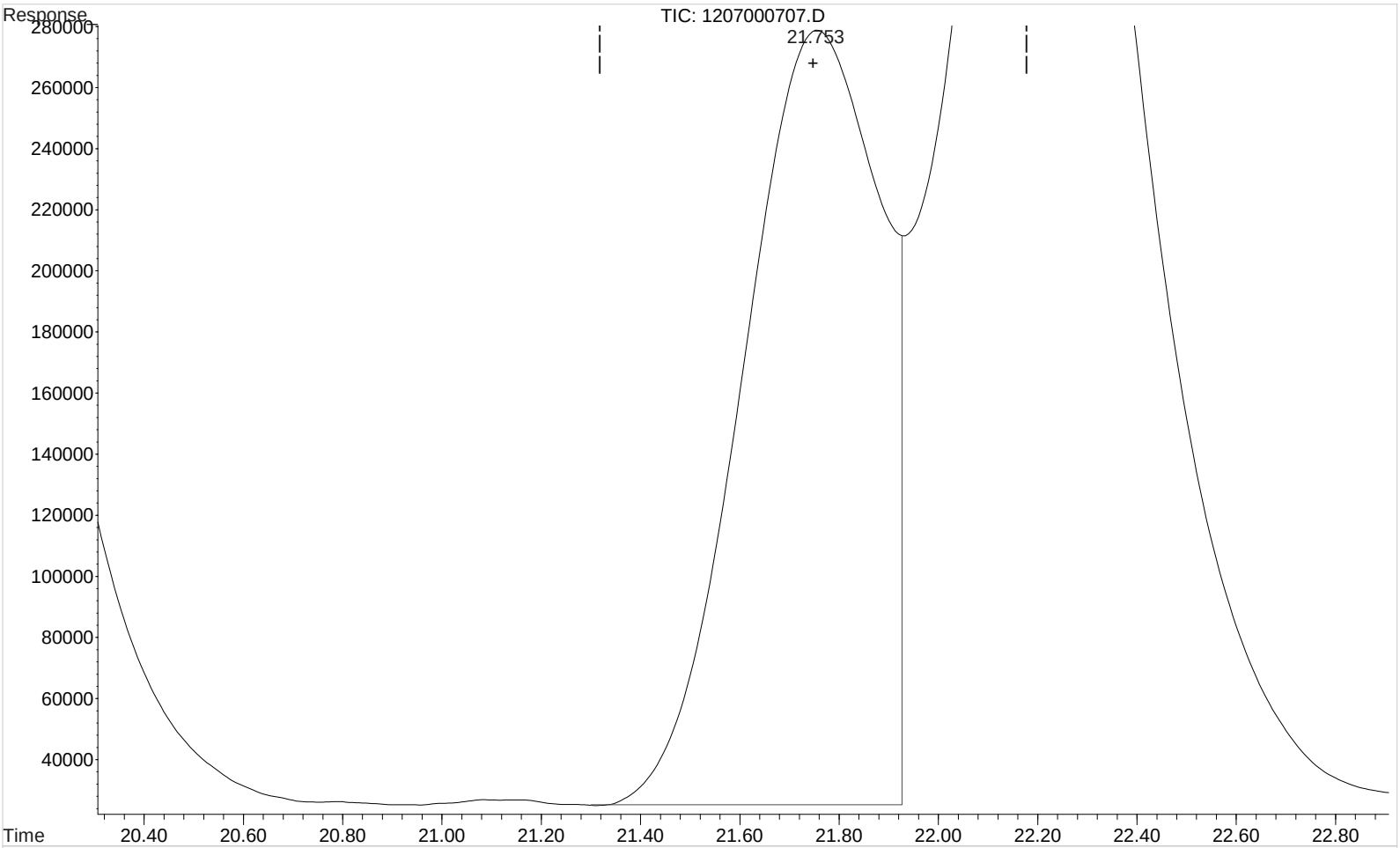
1st (b) (6) 2/08/16

2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.753min 201.372 ug/L m

response 4897380

Manual Integration:

After

BLC

12/08/16

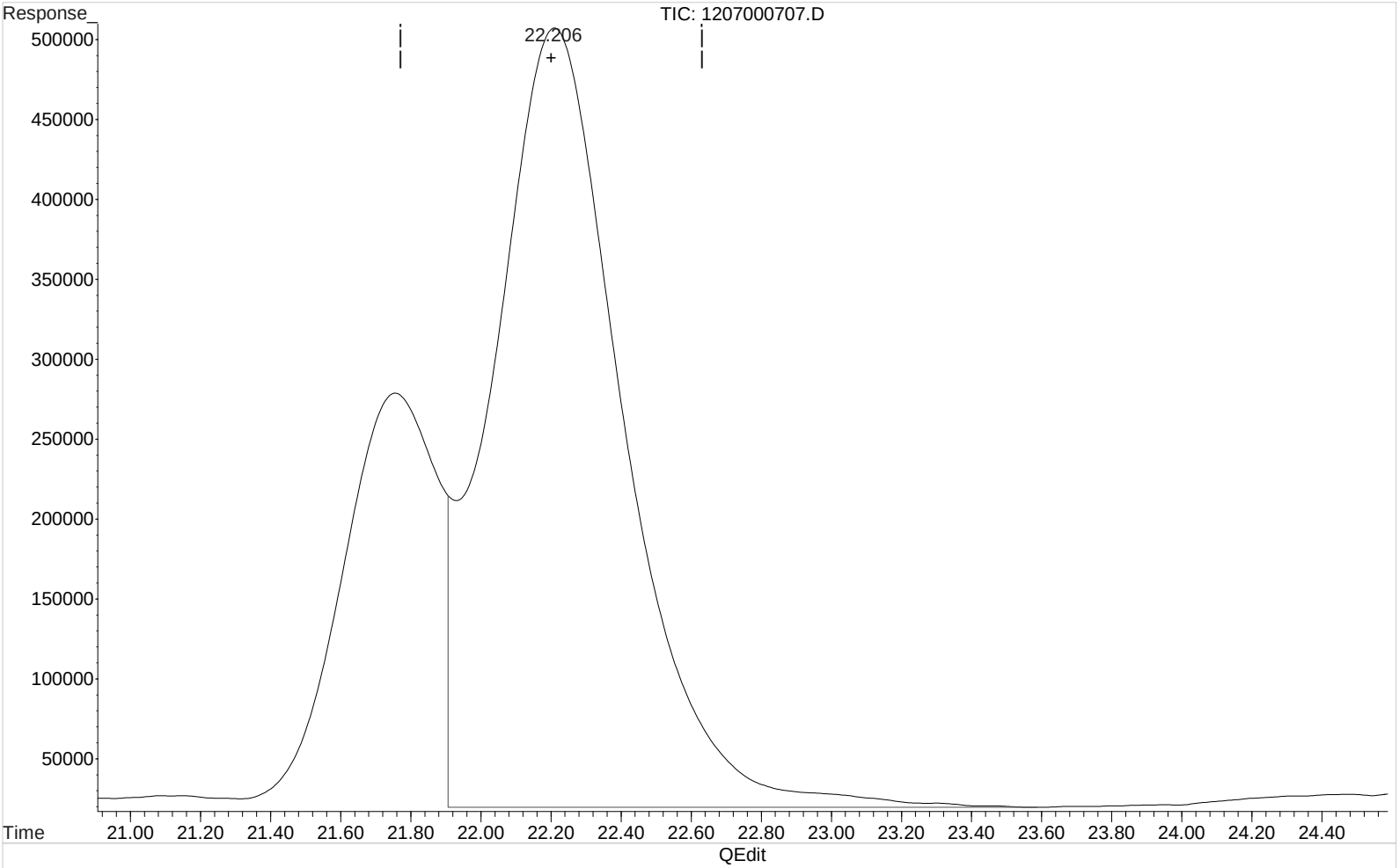
(+) = Expected Retention Time

(b) (6)
1st 2/08/16
2n 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.206min 215.947 ug/L

response 12641702

Manual Integration:

Before

12/08/16

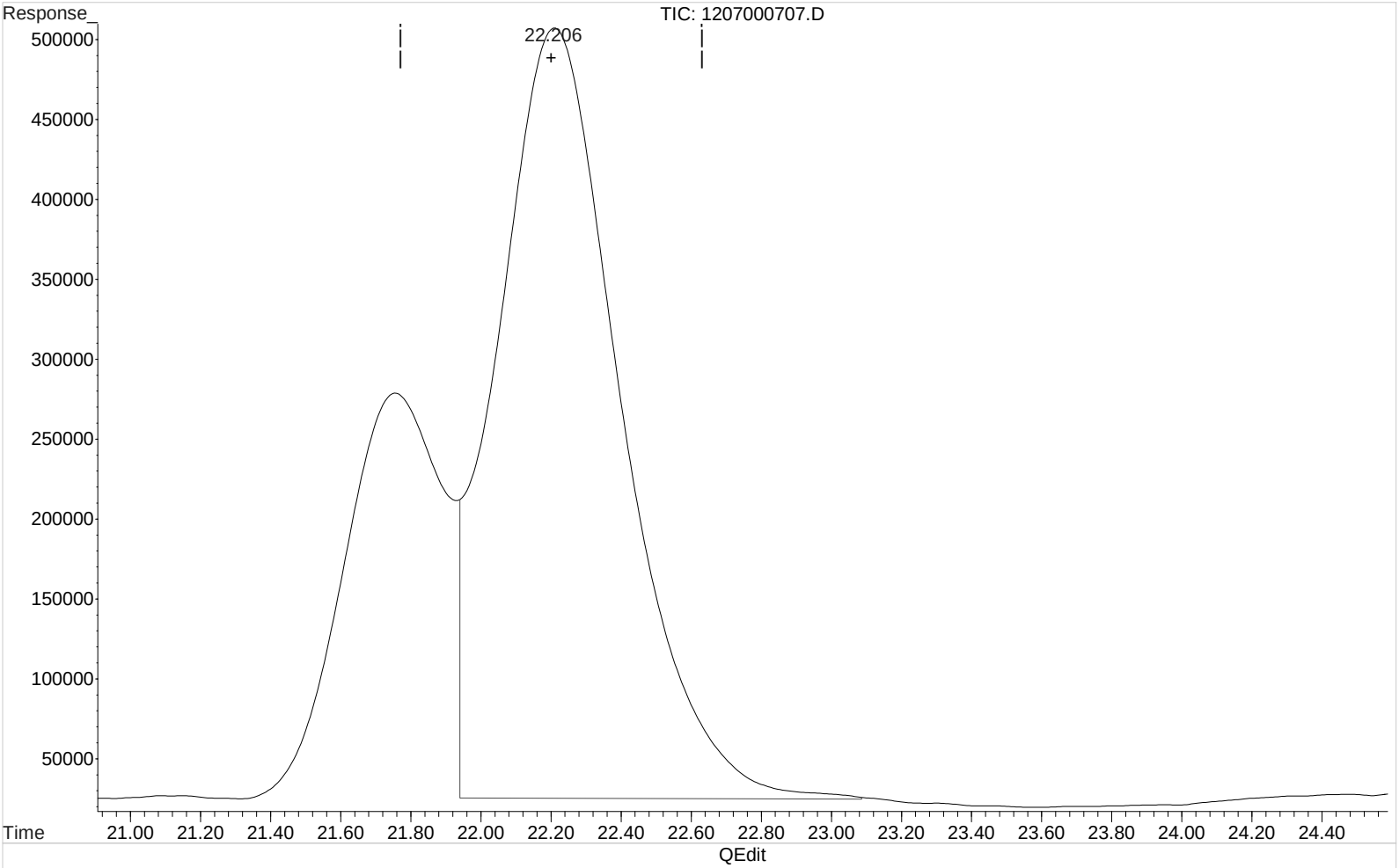
(+) = Expected Retention Time

(b) (6)
1st /08/16
2n /09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(14) 2,4-DNT (T)

22.206min 201.727 ug/L m

response 11809220

Manual Integration:

After

BLC

12/08/16

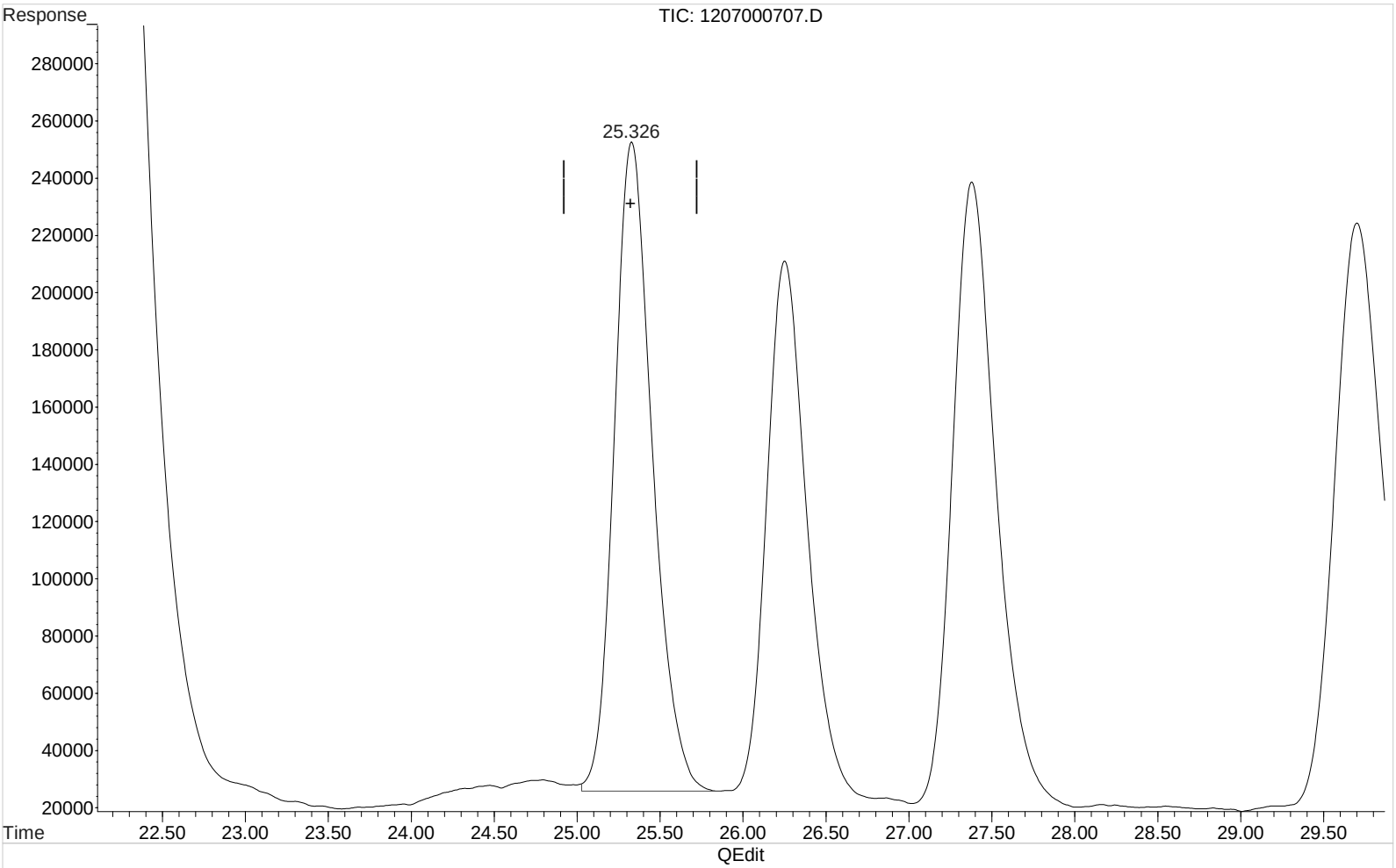
(+) = Expected Retention Time

(b) (6)
1s 12/08/16
2n 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.326min 202.270 ug/L

response 3625509

Manual Integration:

Before

12/08/16

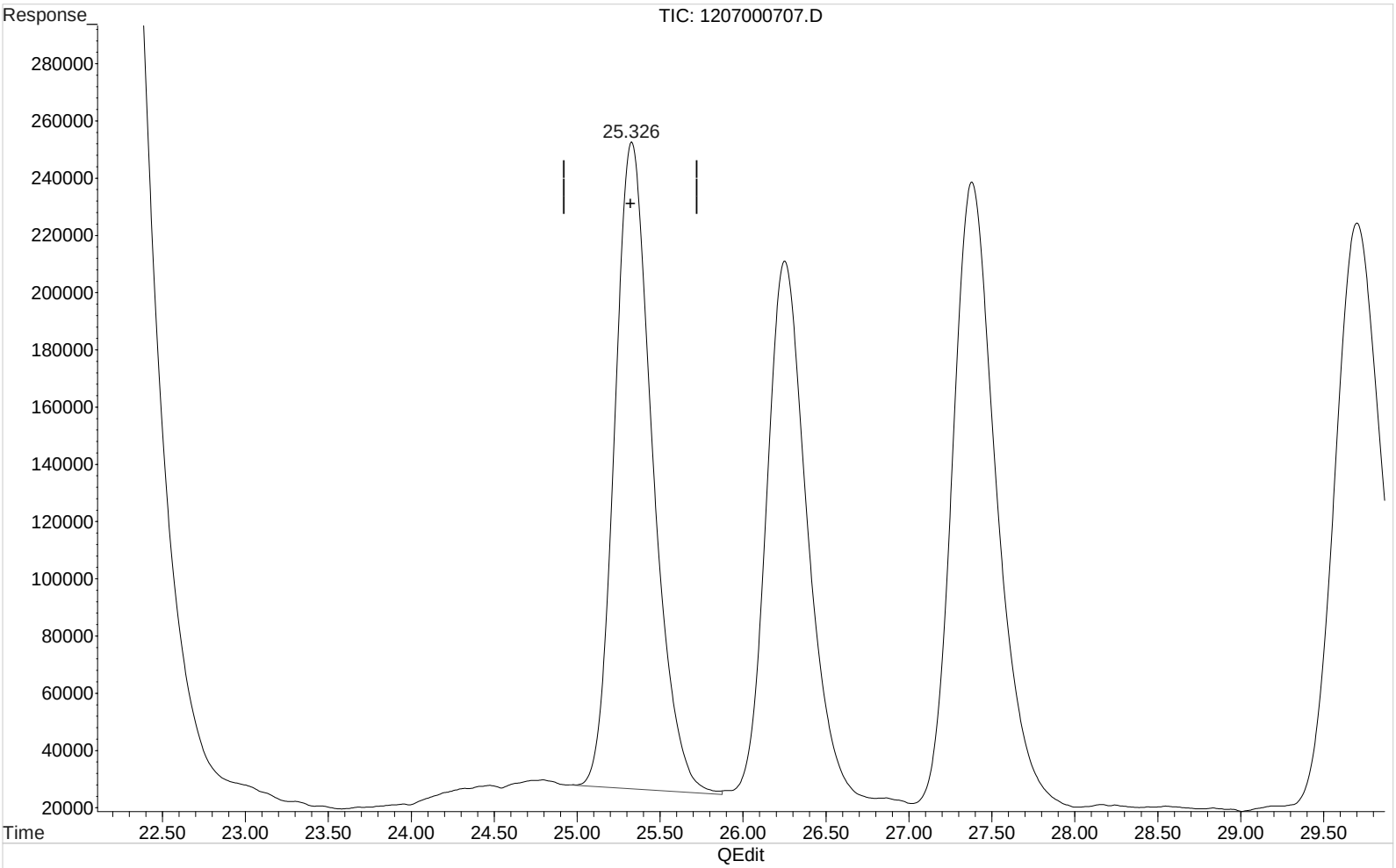
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.326min 201.453 ug/L m

response 3610858

Manual Integration:

After

BLC

12/08/16

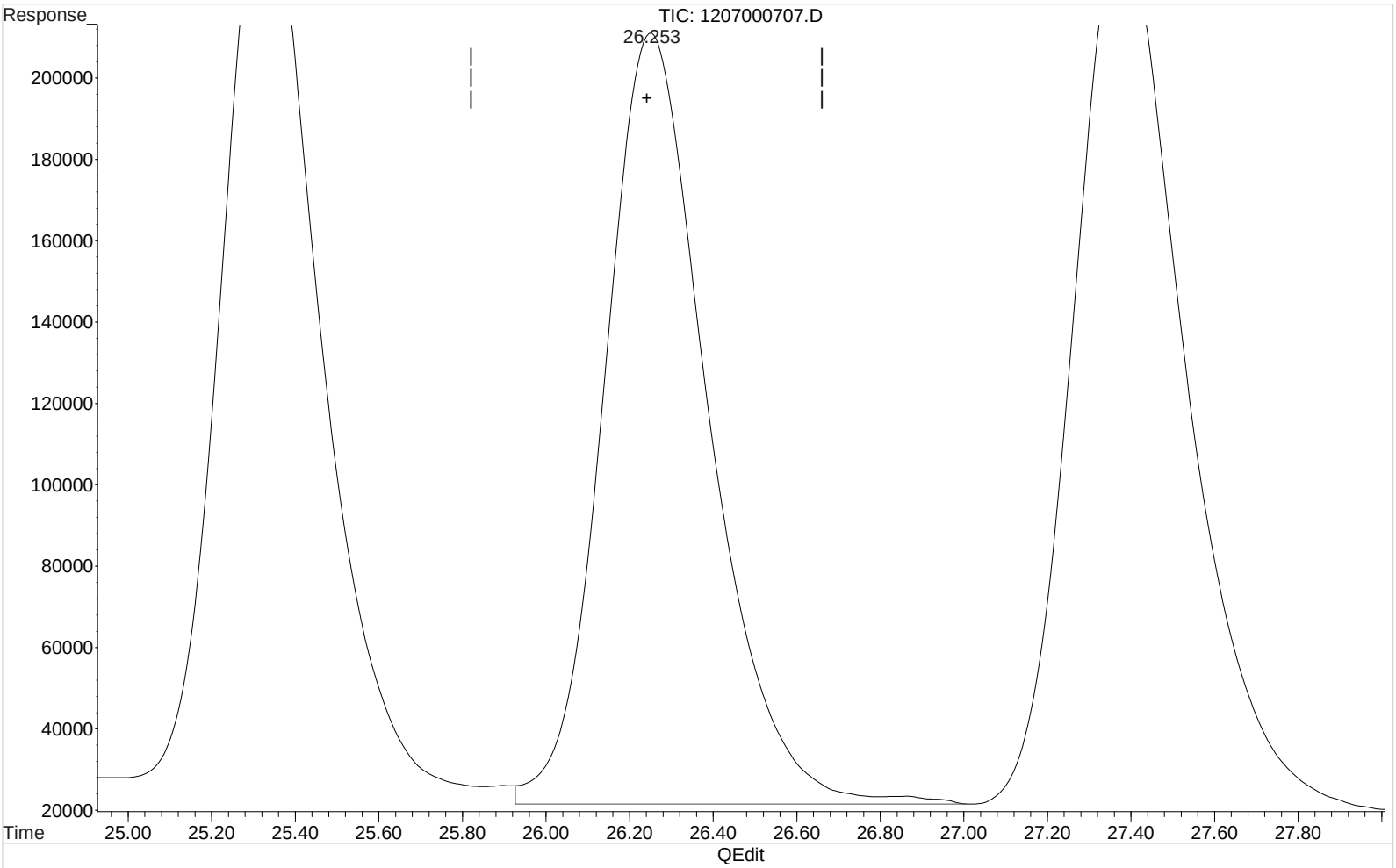
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.253min 203.164 ug/L

response 3288744

Manual Integration:

Before

12/08/16

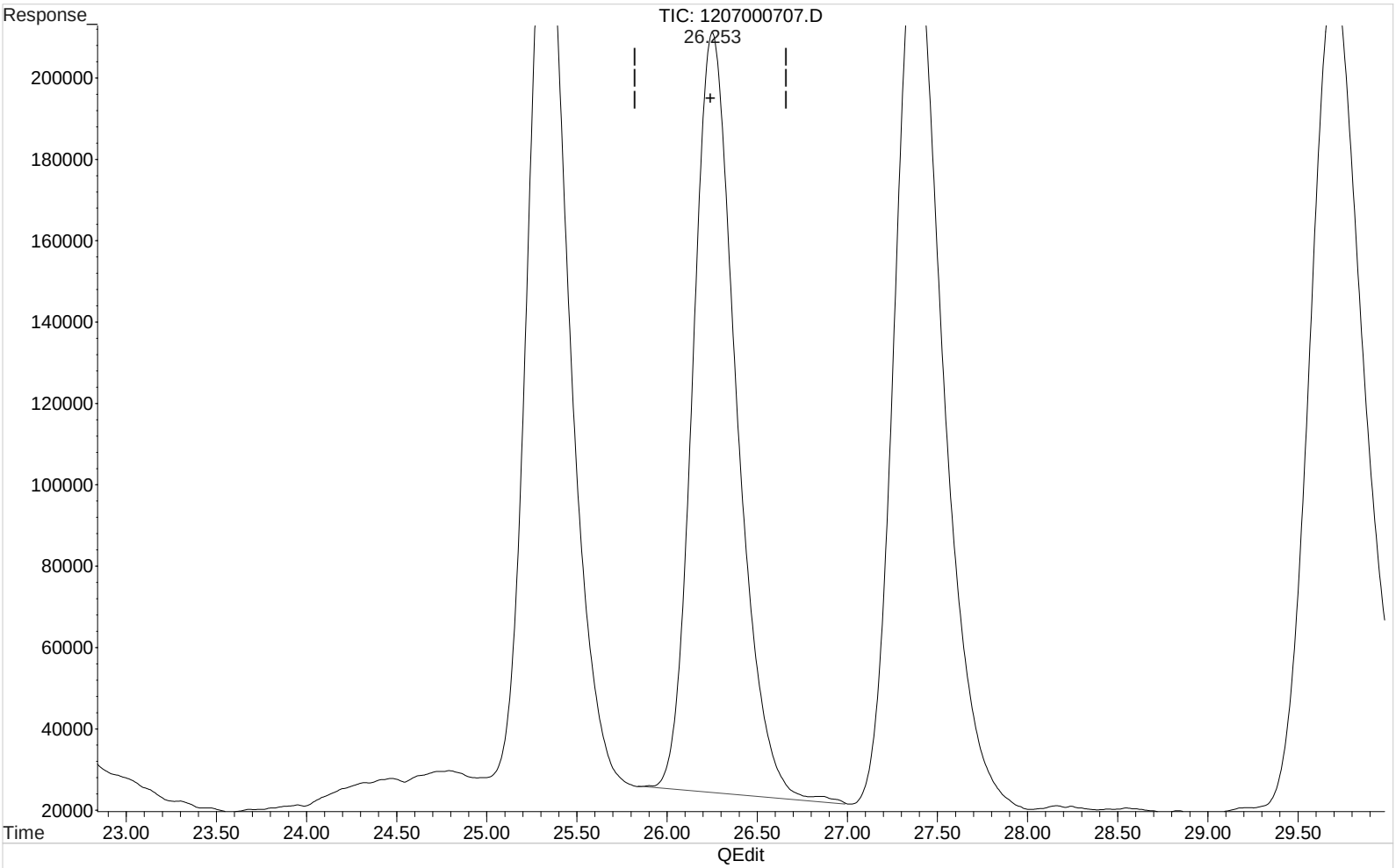
(+) = Expected Retention Time

(b) (6)
1st 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.253min 195.125 ug/L m

response 3158608

Manual Integration:

Before

12/08/16

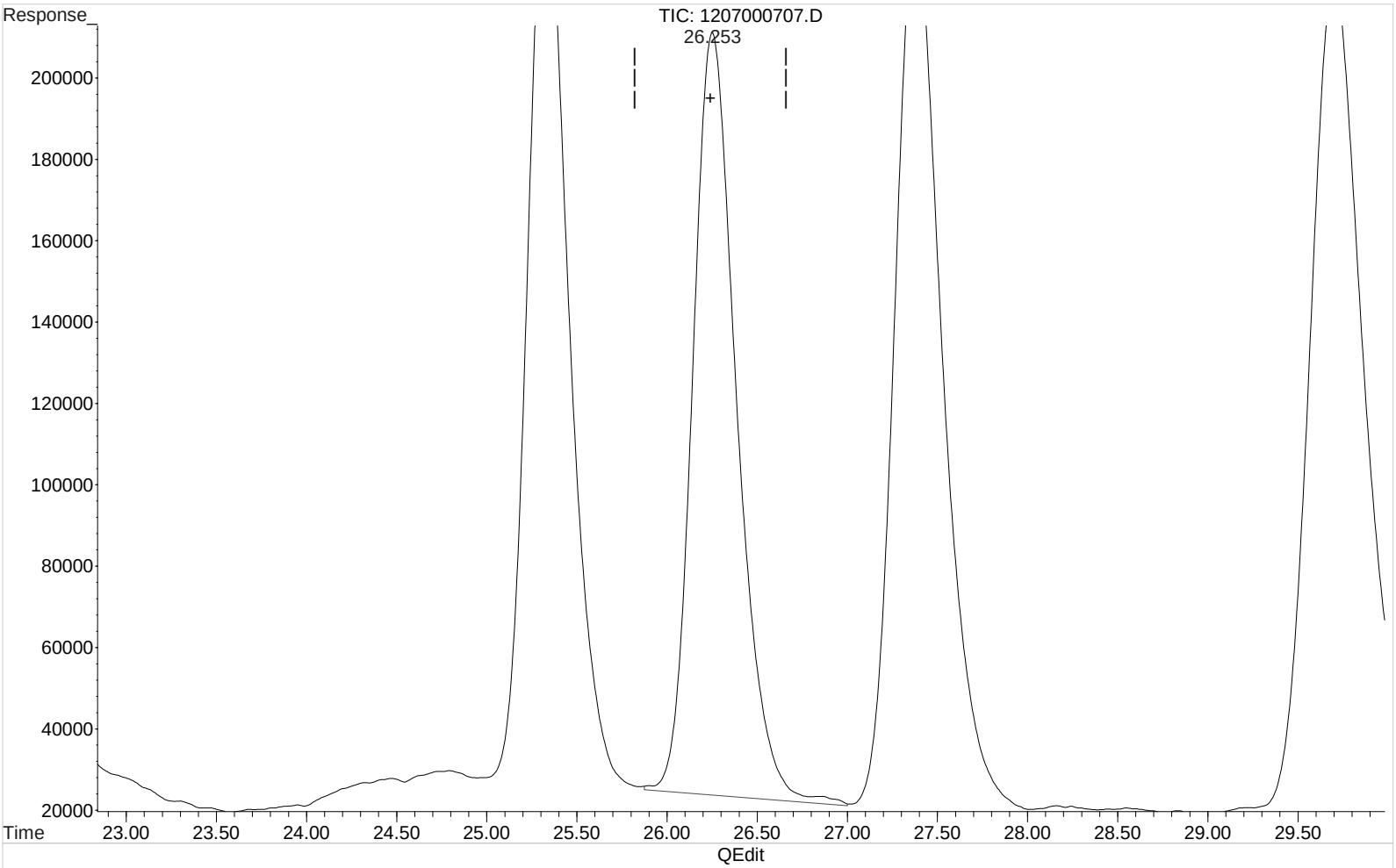
(+) = Expected Retention Time

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.253min 197.617 ug/L m

response 3198950

Manual Integration:

After

BLC

12/08/16

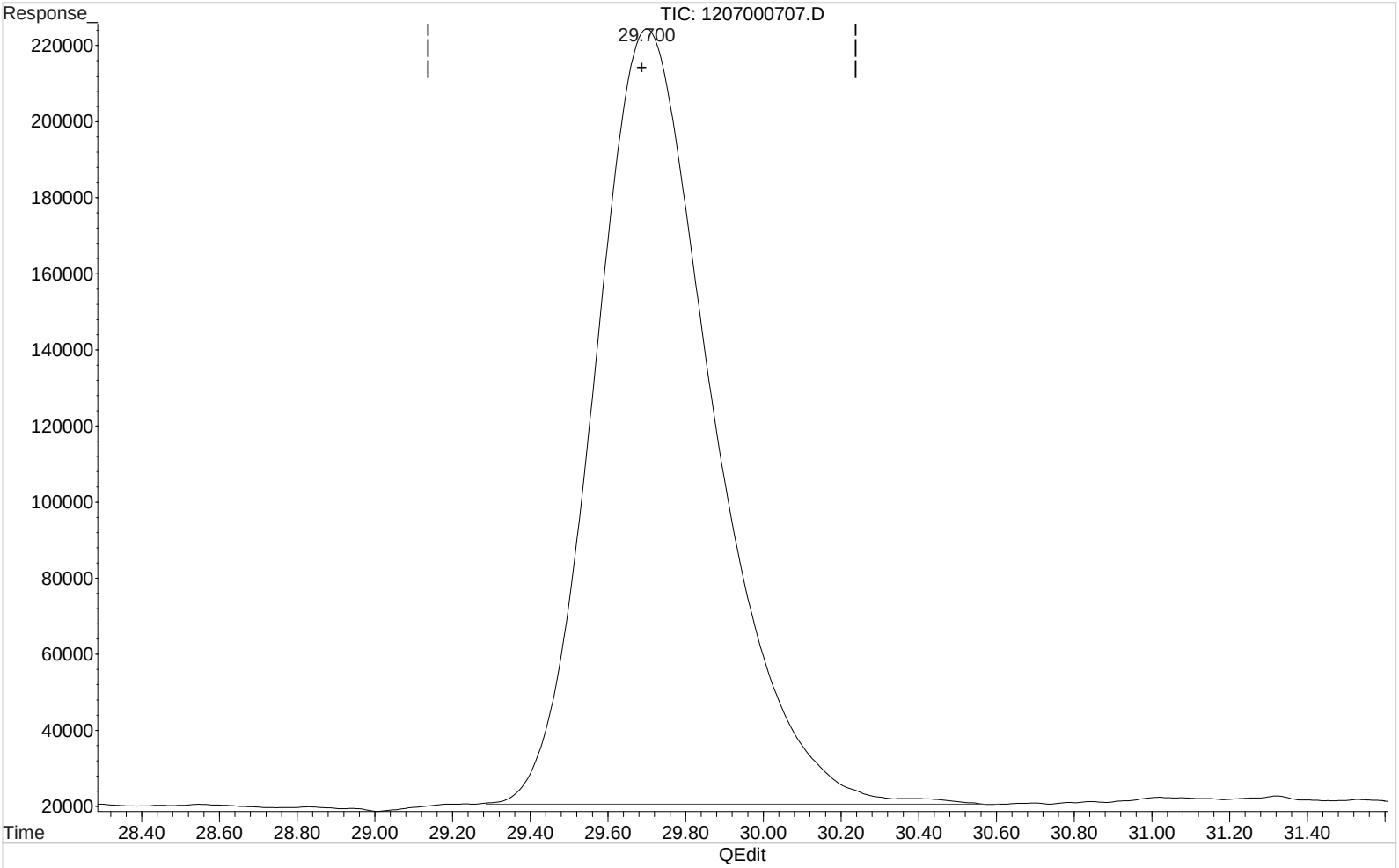
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(18) 1-Chloro-3-Nitrobenzene (S)

29.700min 192.103 ug/L

response 4312645

Manual Integration:

Before

12/08/16

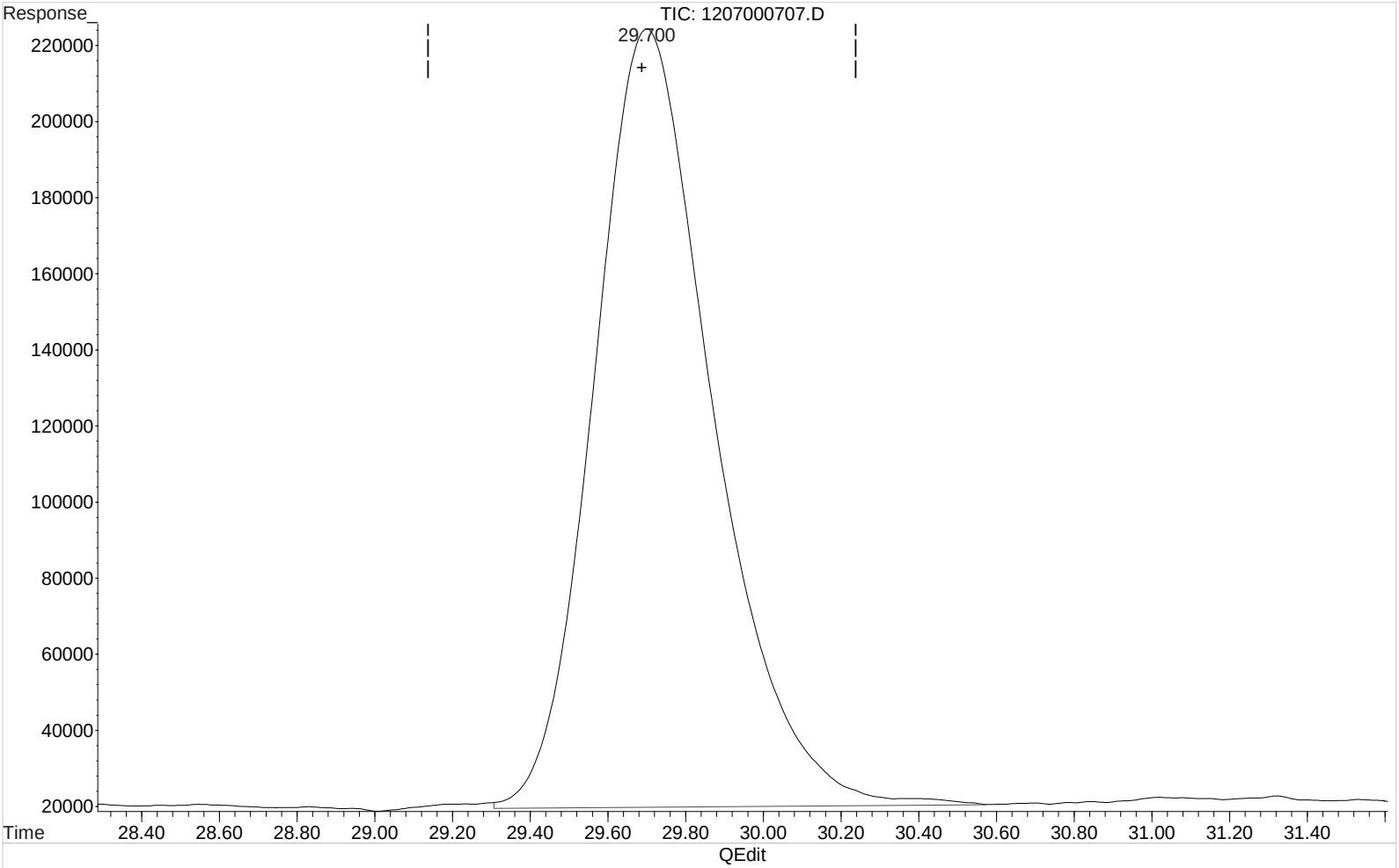
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(18) 1-Chloro-3-Nitrobenzene (S)

29.700min 194.259 ug/L m

response 4361045

Manual Integration:

After

BLC

12/08/16

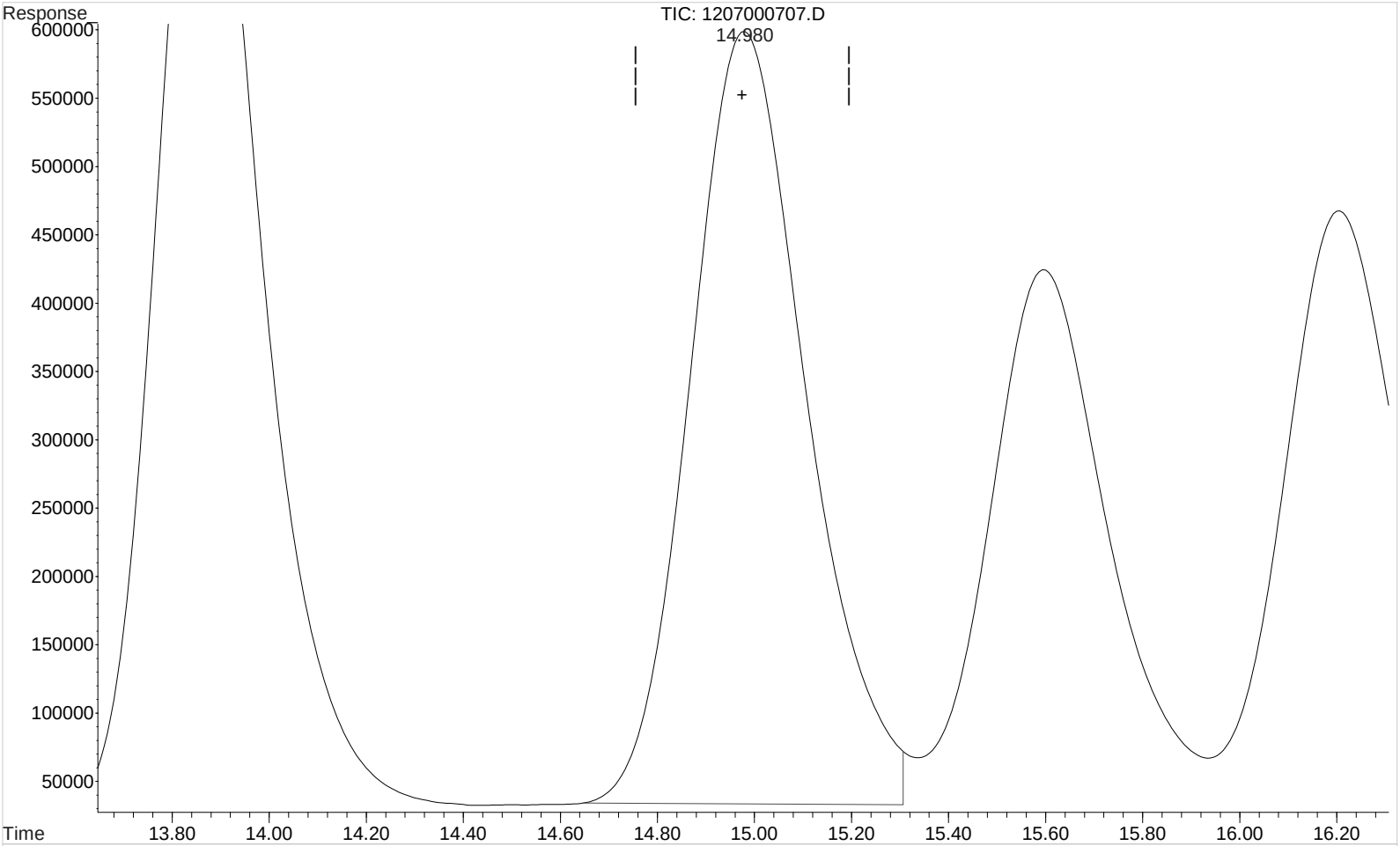
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.980min 195.548 ug/L

response 9394960

Manual Integration:

Before

12/08/16

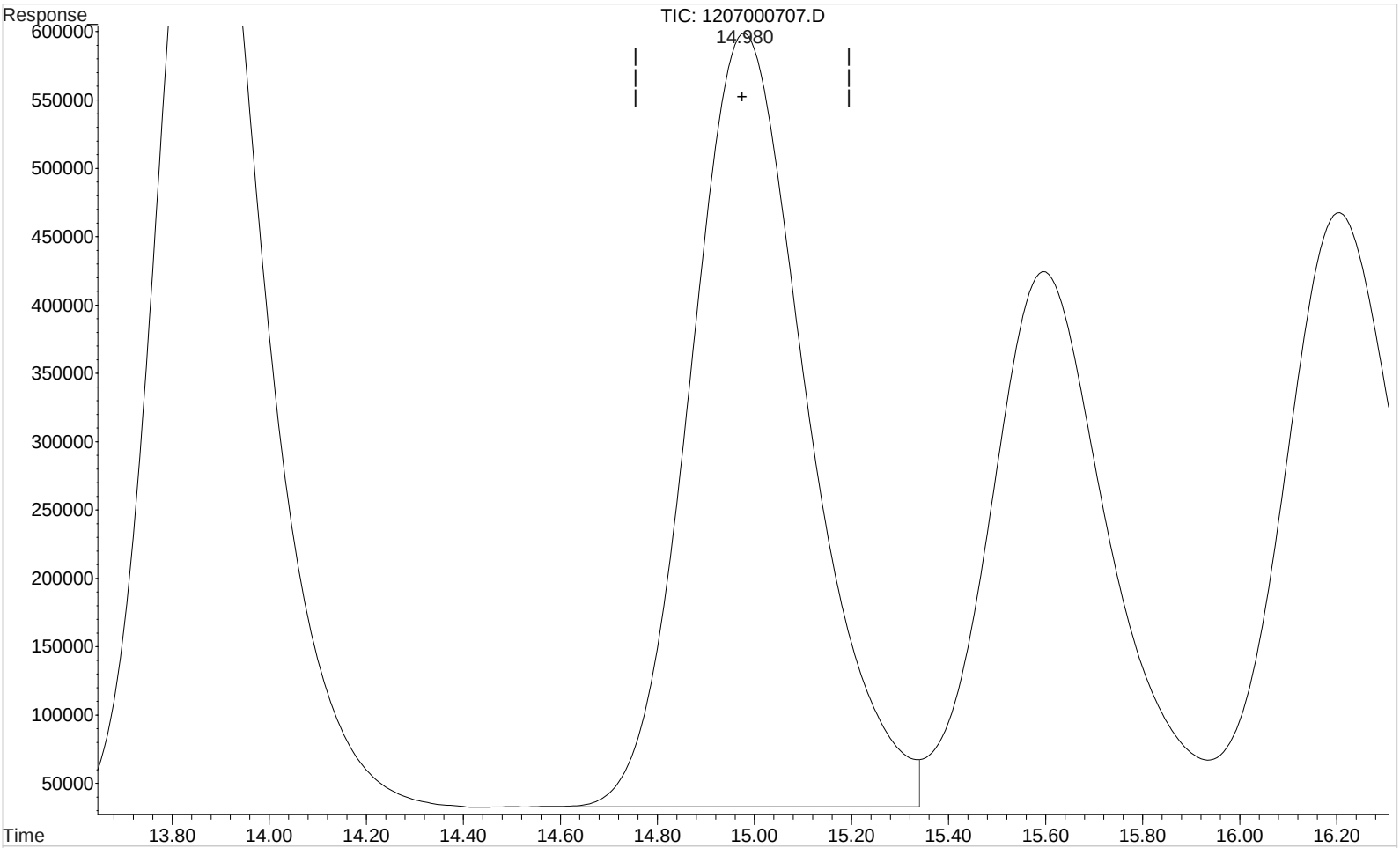
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.980min 197.468 ug/L m

response 9487220

Manual Integration:

After

BLC

12/08/16

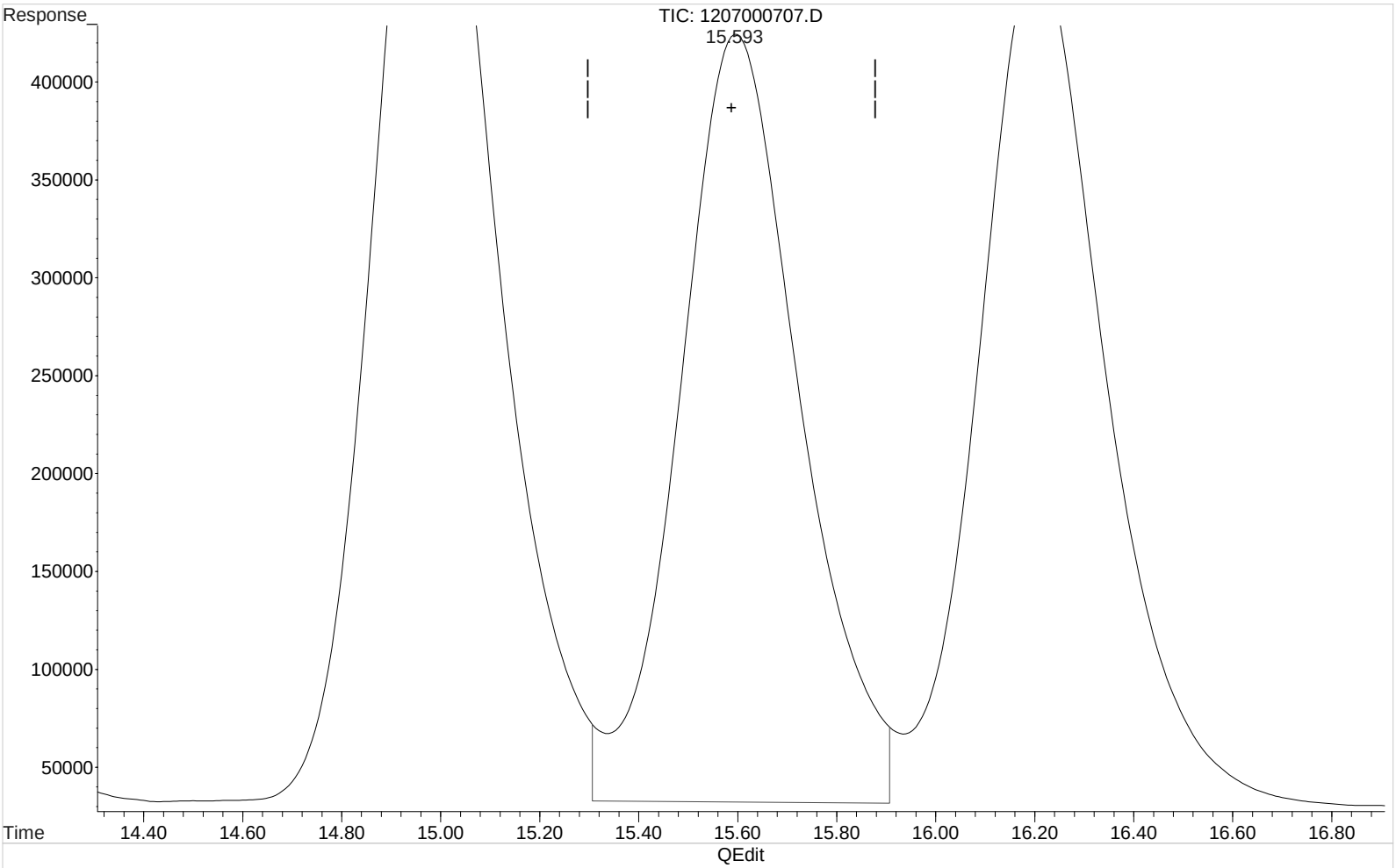
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.593min 196.528 ug/L

response 6600222

Manual Integration:

Before

12/08/16

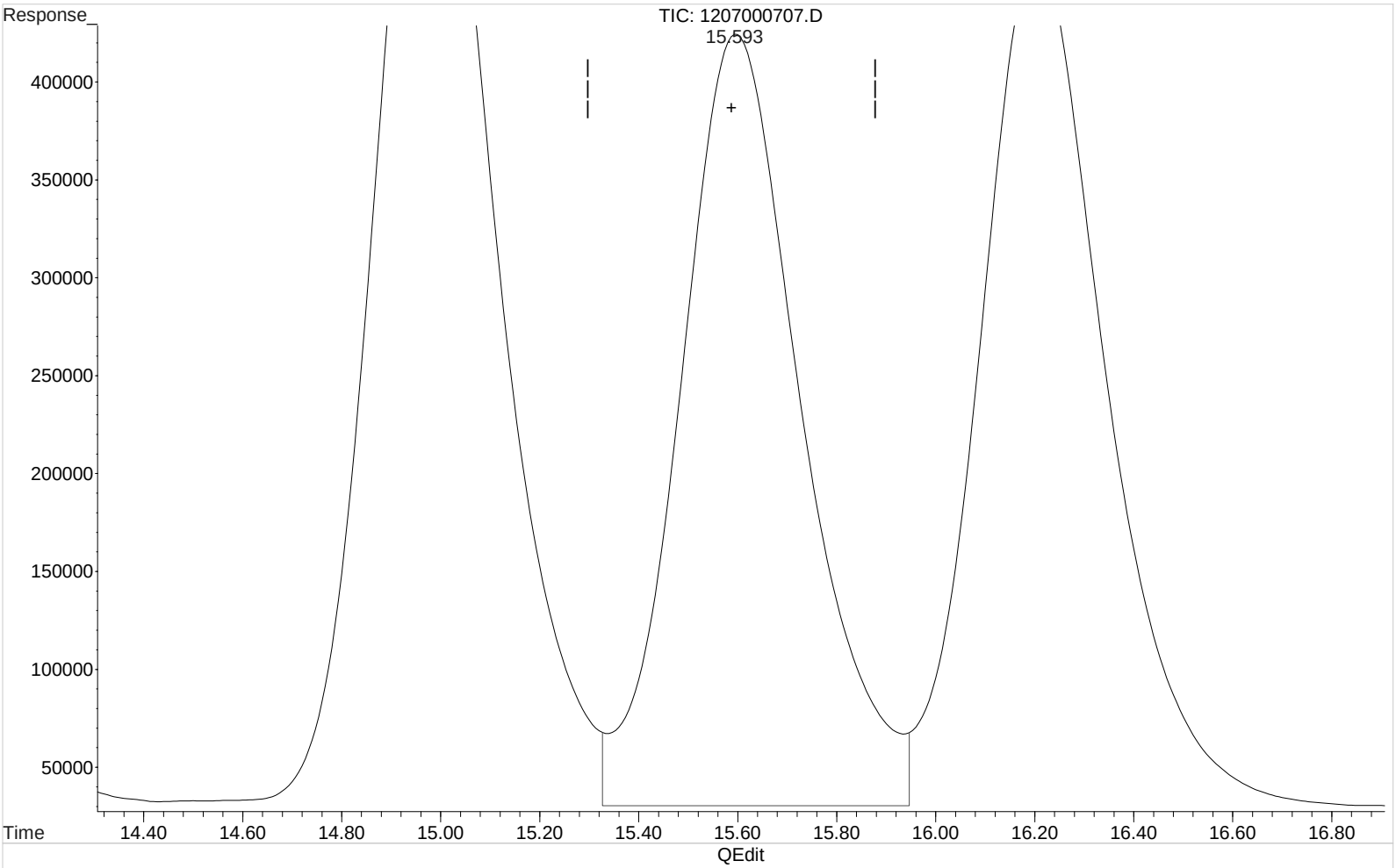
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.593min 199.929 ug/L m

response 6714428

Manual Integration:

After

BLC

12/08/16

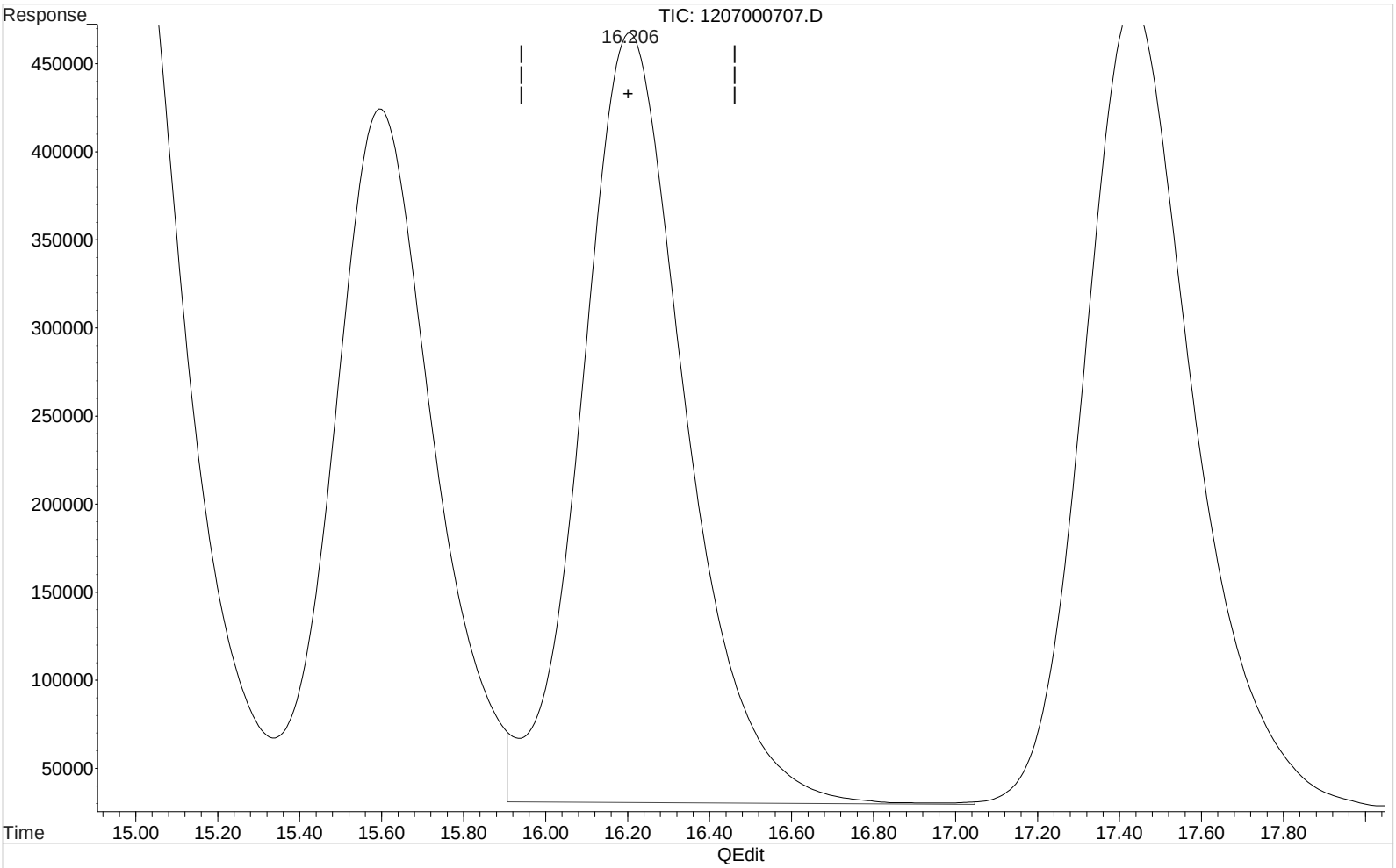
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.206min 198.294 ug/L

response 7713338

Manual Integration:

Before

12/08/16

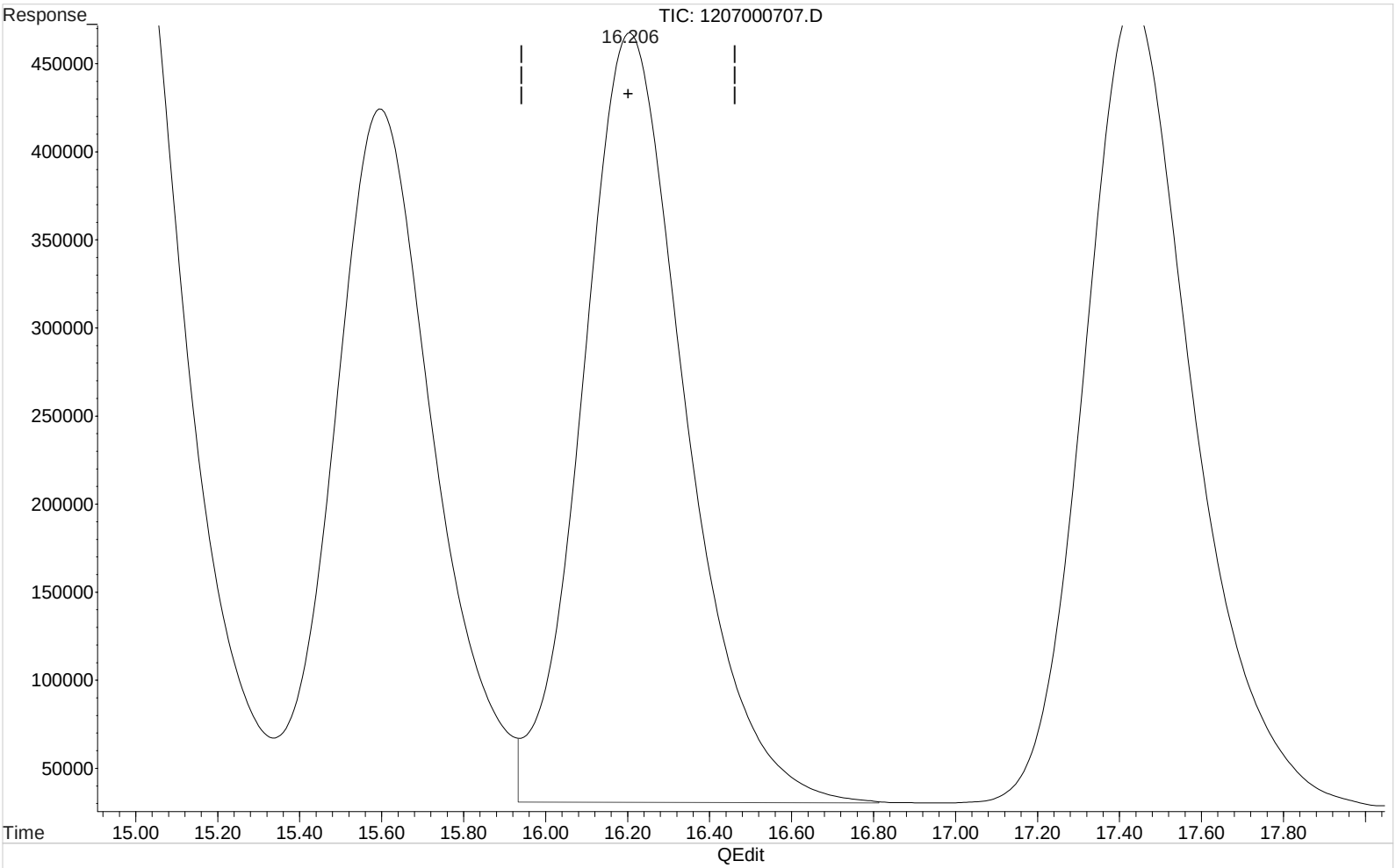
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.206min 196.210 ug/L m

response 7632300

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:15:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
18) S	1-Chloro-3-Nitrobenzene	29.705	10886437	488.432	ug/L	
	Target Compounds					
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2) T	HMX	4.785	6056374	506.562	ug/L	
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4) T	RDX	8.379	10003709	499.846	ug/L	
5) T	1,3,5-TNB	10.519	22540023	501.855	ug/L	
6) T	1,3-DNB	13.859	30302928	496.719	ug/L	
7) T	3,5-Dinitroaniline	14.965	24125484	503.745	ug/L	
8) T	Tetryl	15.585	16812702	500.659	ug/L	
9) T	Nitrobenzene	16.192	19511965	503.999	ug/L	
10) T	2,4,6-TNT	17.439	21176168	511.931	ug/L	
11) T	4-Amino-2,6-DNT	19.192	14984390	512.669	ug/L	
12) T	2-Amino-4,6-DNT	20.025	21286599	490.874	ug/L	
13) T	2,6-DNT	21.745	12560679	515.590	ug/L	m
14) T	2,4-DNT	22.205	29961095	510.697	ug/L	m
15) T	2-NT	25.325	9109097	507.283	ug/L	m
16) T	4-NT	26.252	8010069	496.306	ug/L	m
17) T	3-NT	27.379	10130589	501.548	ug/L	m

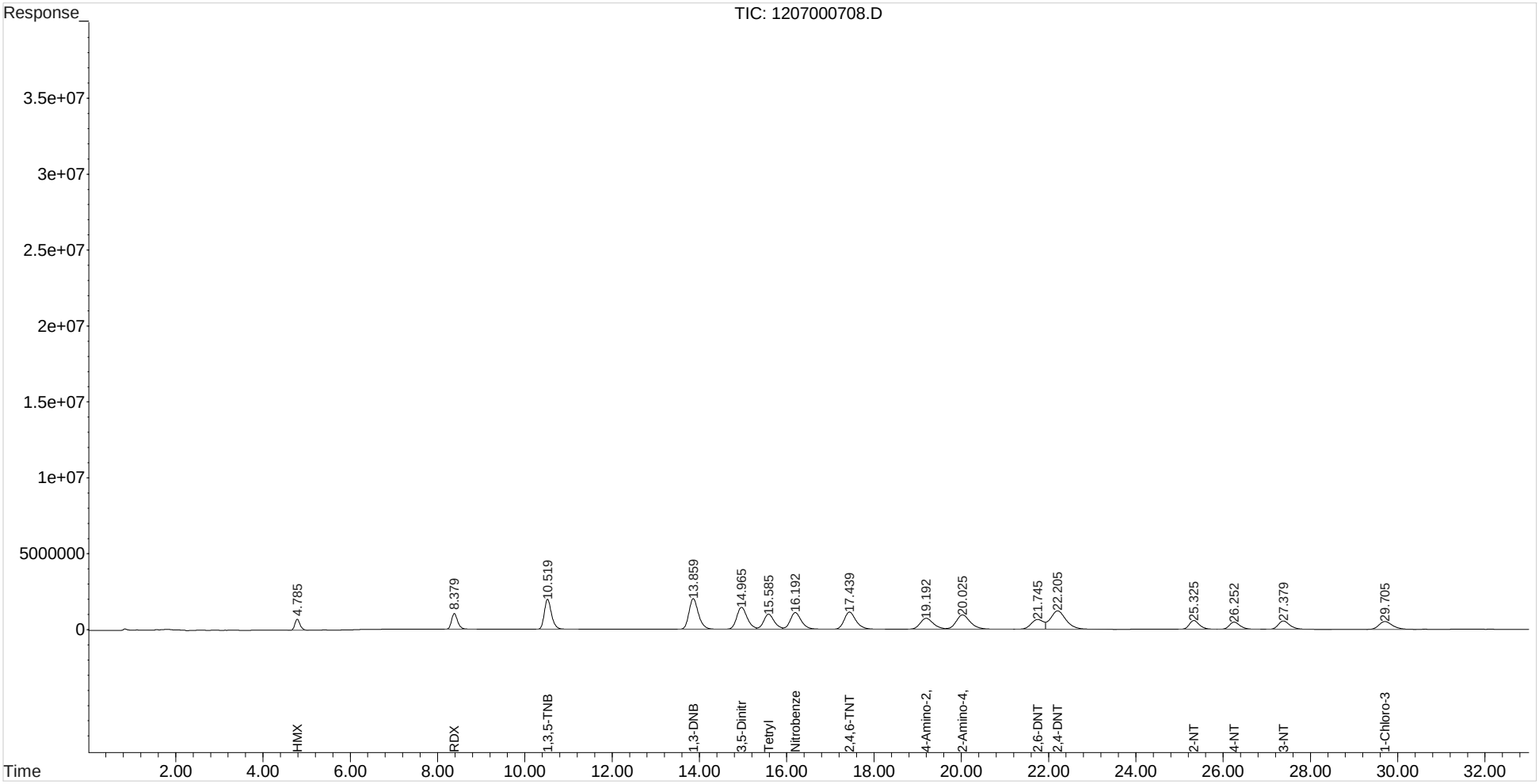
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:15:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



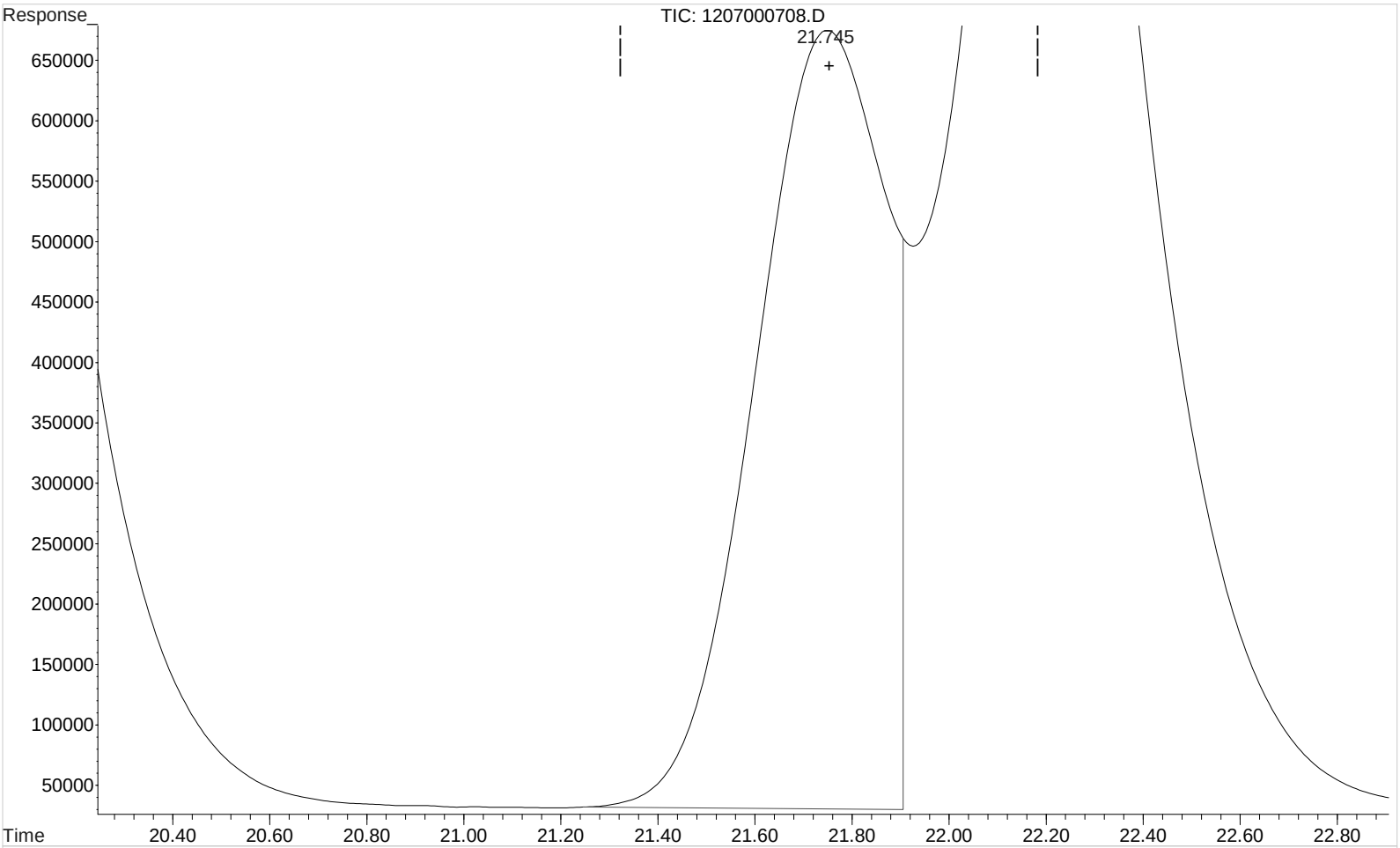
Quantitation Report (Qedit)

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.745min 493.038 ug/L

response 12011281

Manual Integration:

Before

12/08/16

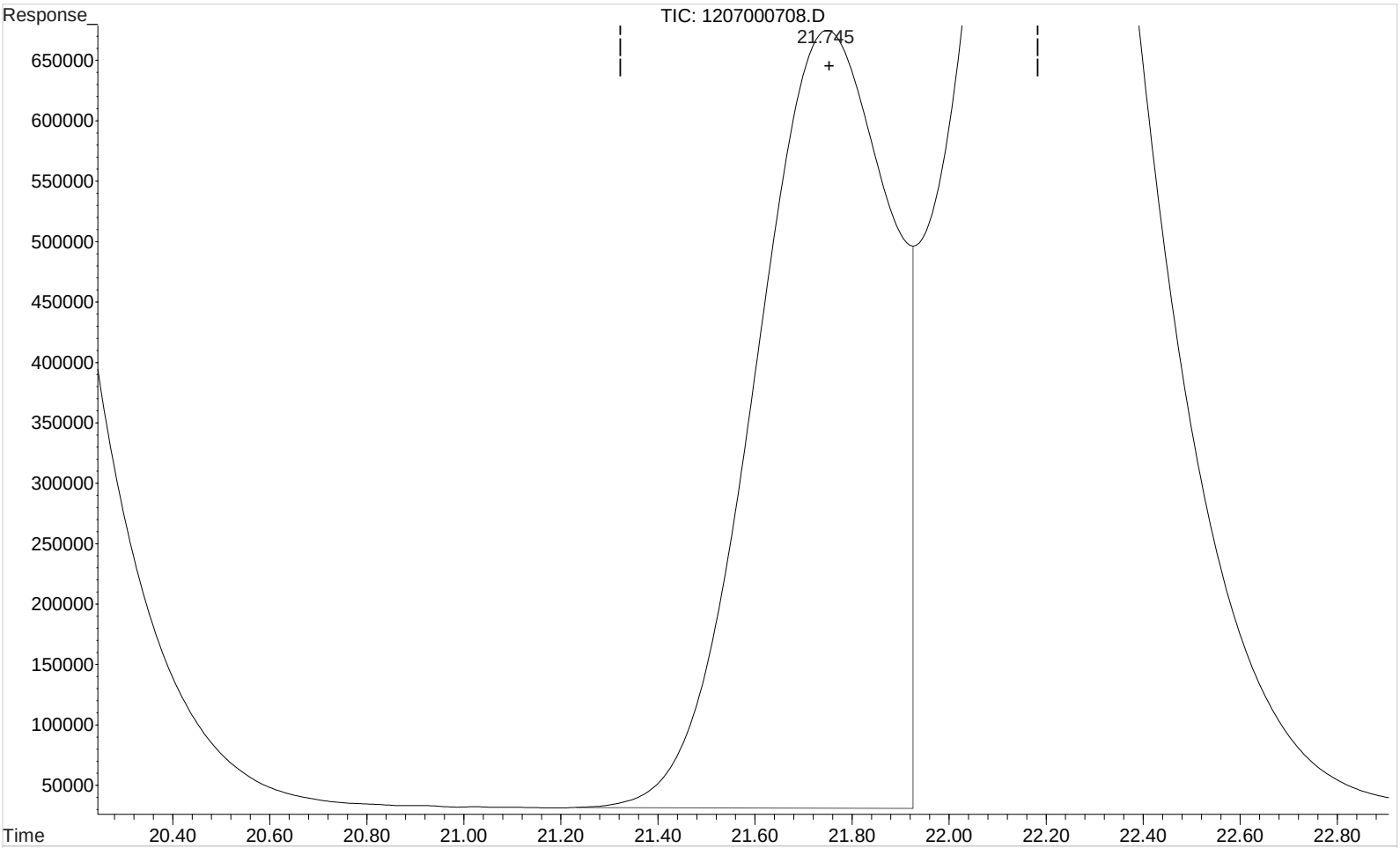
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.745min 515.590 ug/L m

response 12560679

Manual Integration:

After

BLC

12/08/16

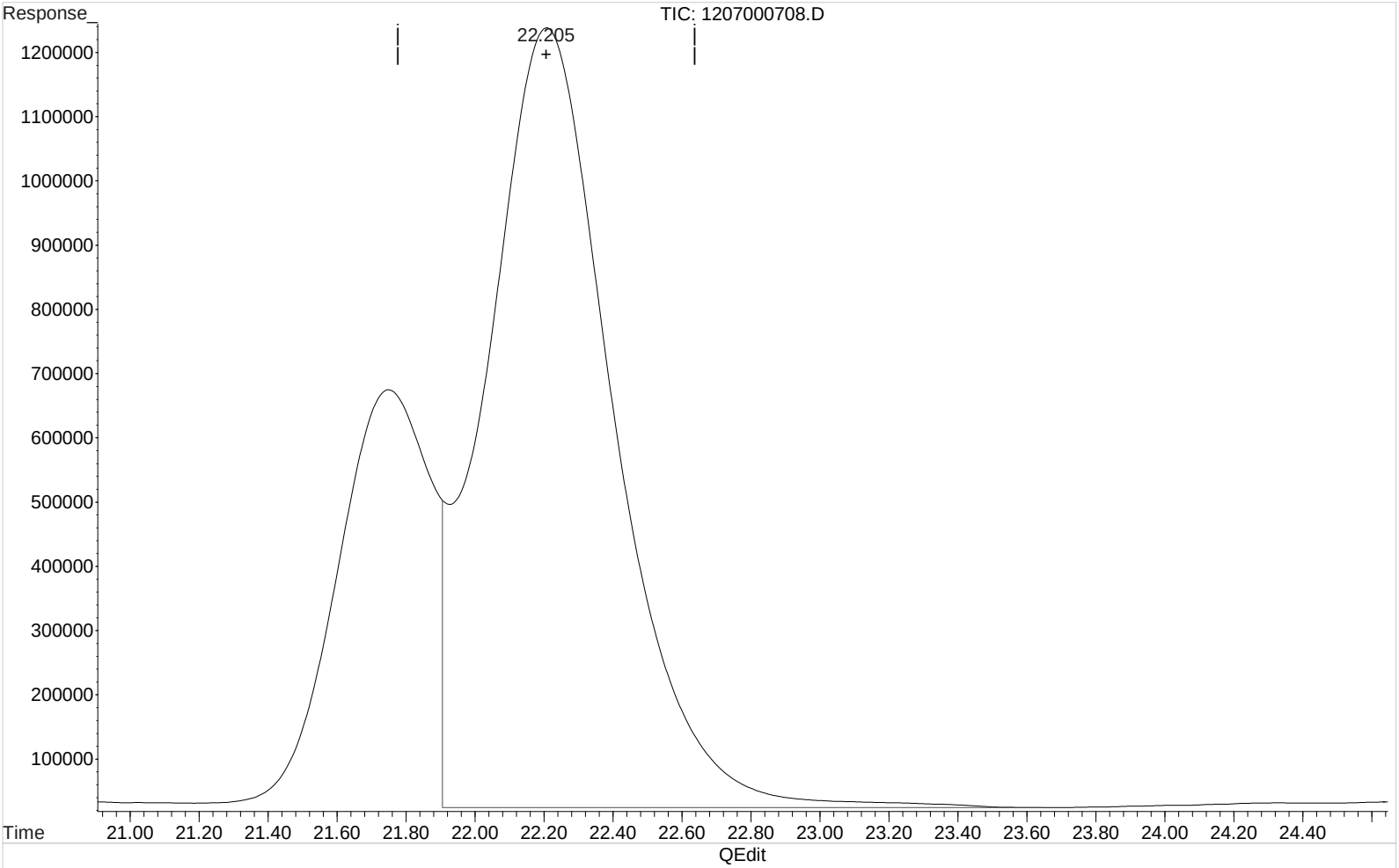
(+) = Expected Retention Time

(b) (6)
1st [redacted] 12/08/16
2n [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.205min 531.088 ug/L

response 31157389

Manual Integration:

Before

12/08/16

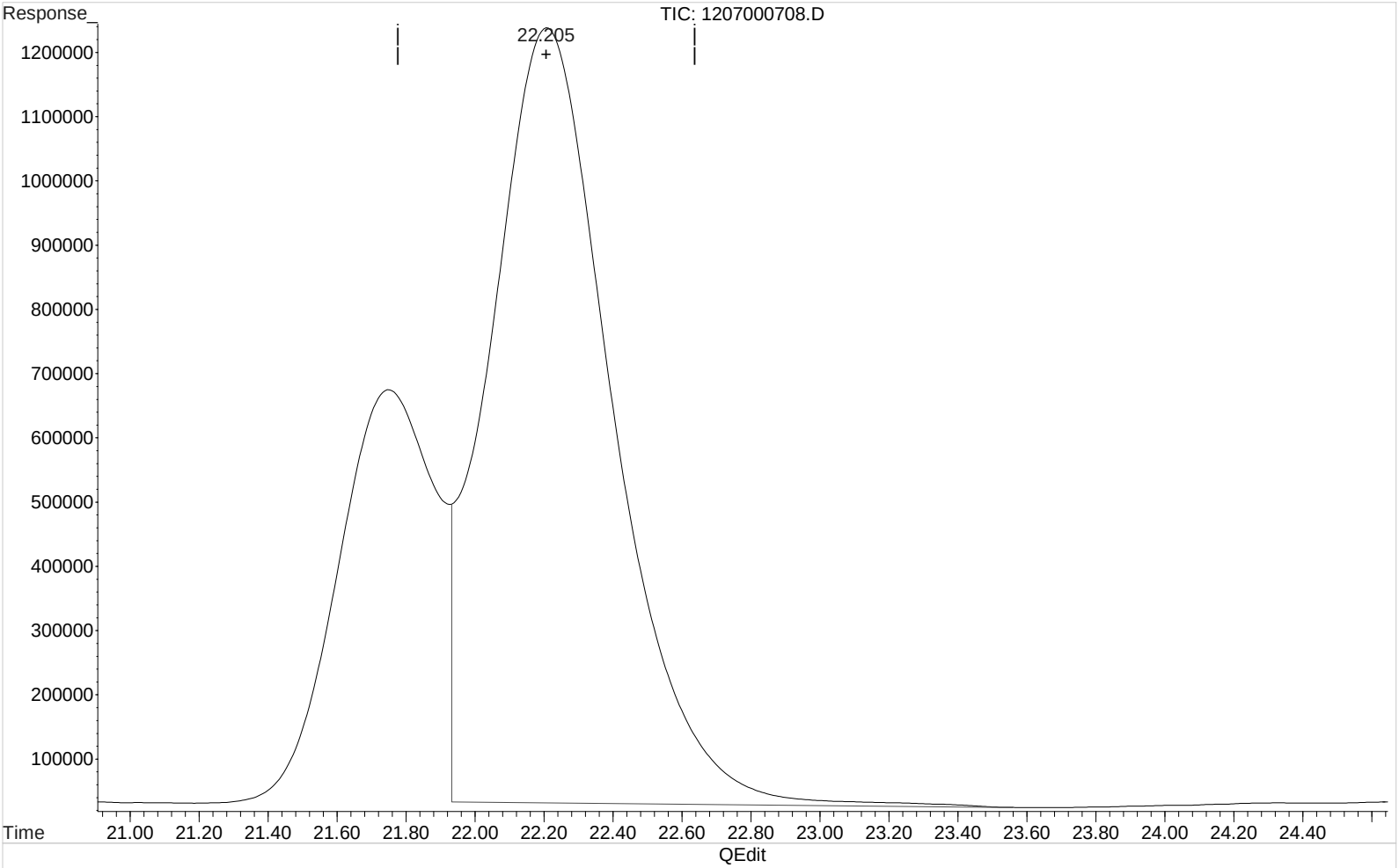
(+) = Expected Retention Time

1st (b) (6) 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.205min 510.697 ug/L m

response 29961095

Manual Integration:

After

BLC

12/08/16

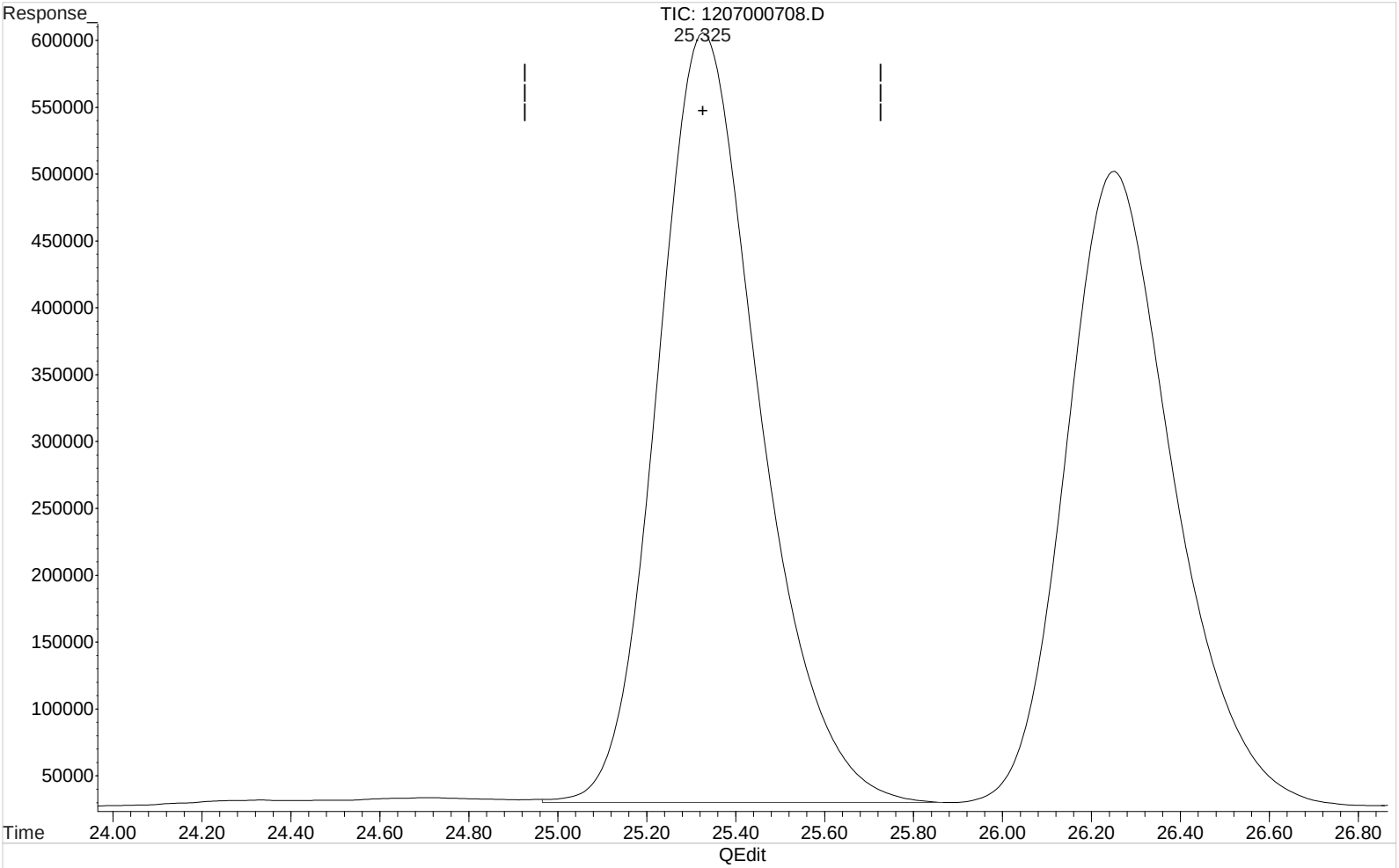
(+) = Expected Retention Time

(b) (6)
1st [redacted] 2/08/16
2n [redacted] 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.325min 510.734 ug/L

response 9171057

Manual Integration:

Before

12/08/16

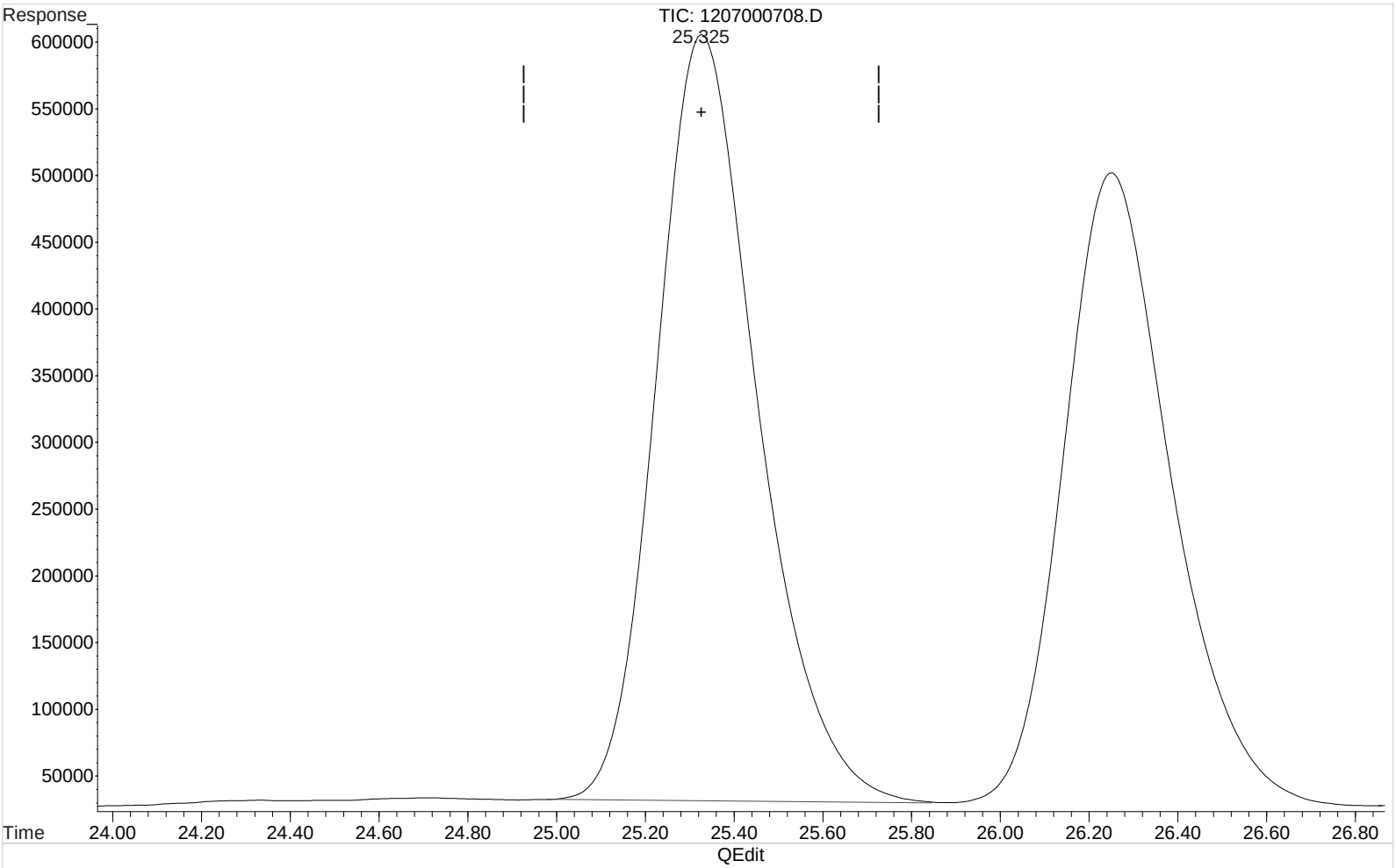
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.325min 507.283 ug/L m

response 9109097

Manual Integration:

After

BLC

12/08/16

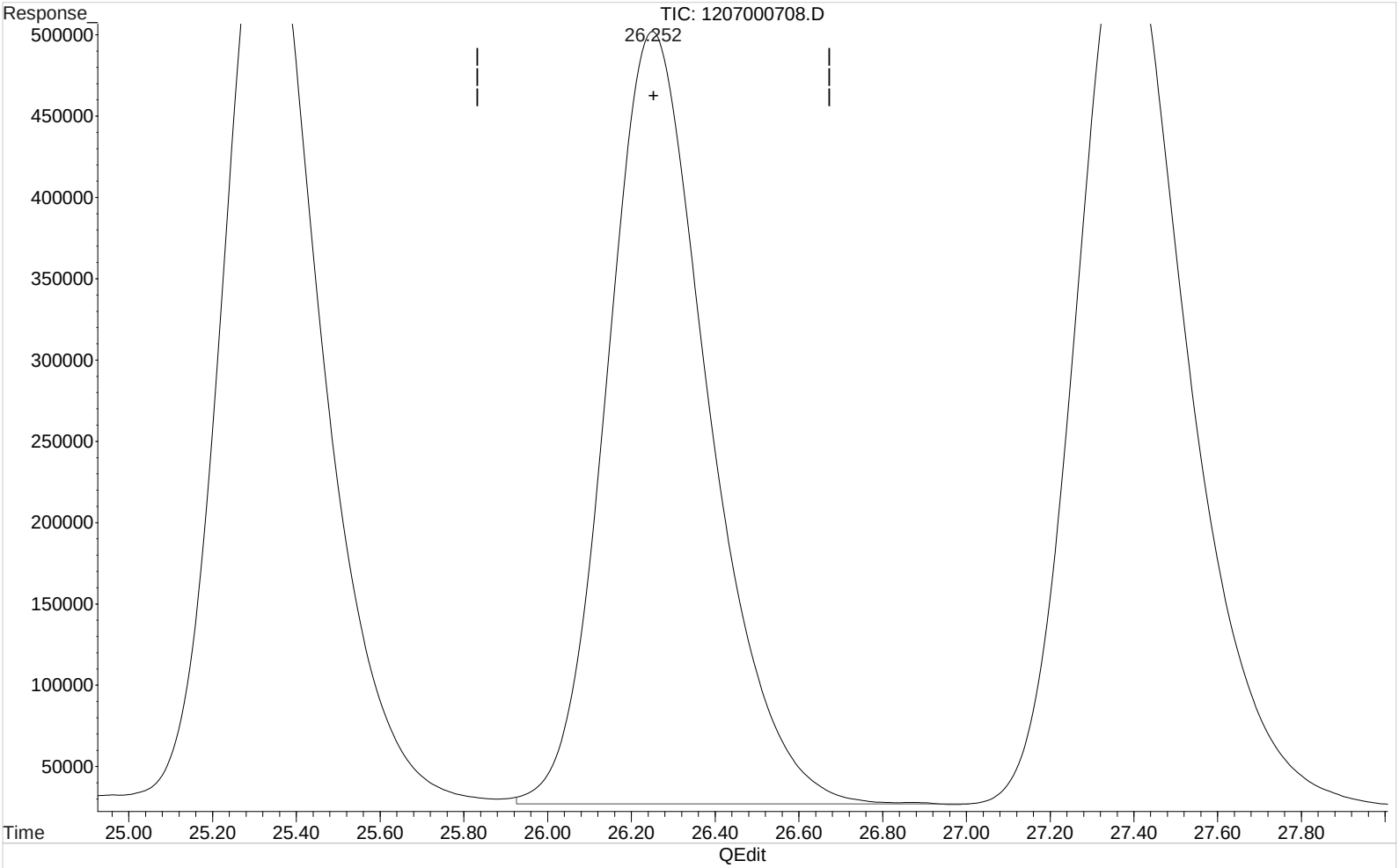
(+) = Expected Retention Time

(b) (6)
1st /08/16
2n /09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.252min 498.182 ug/L

response 8040347

Manual Integration:

Before

12/08/16

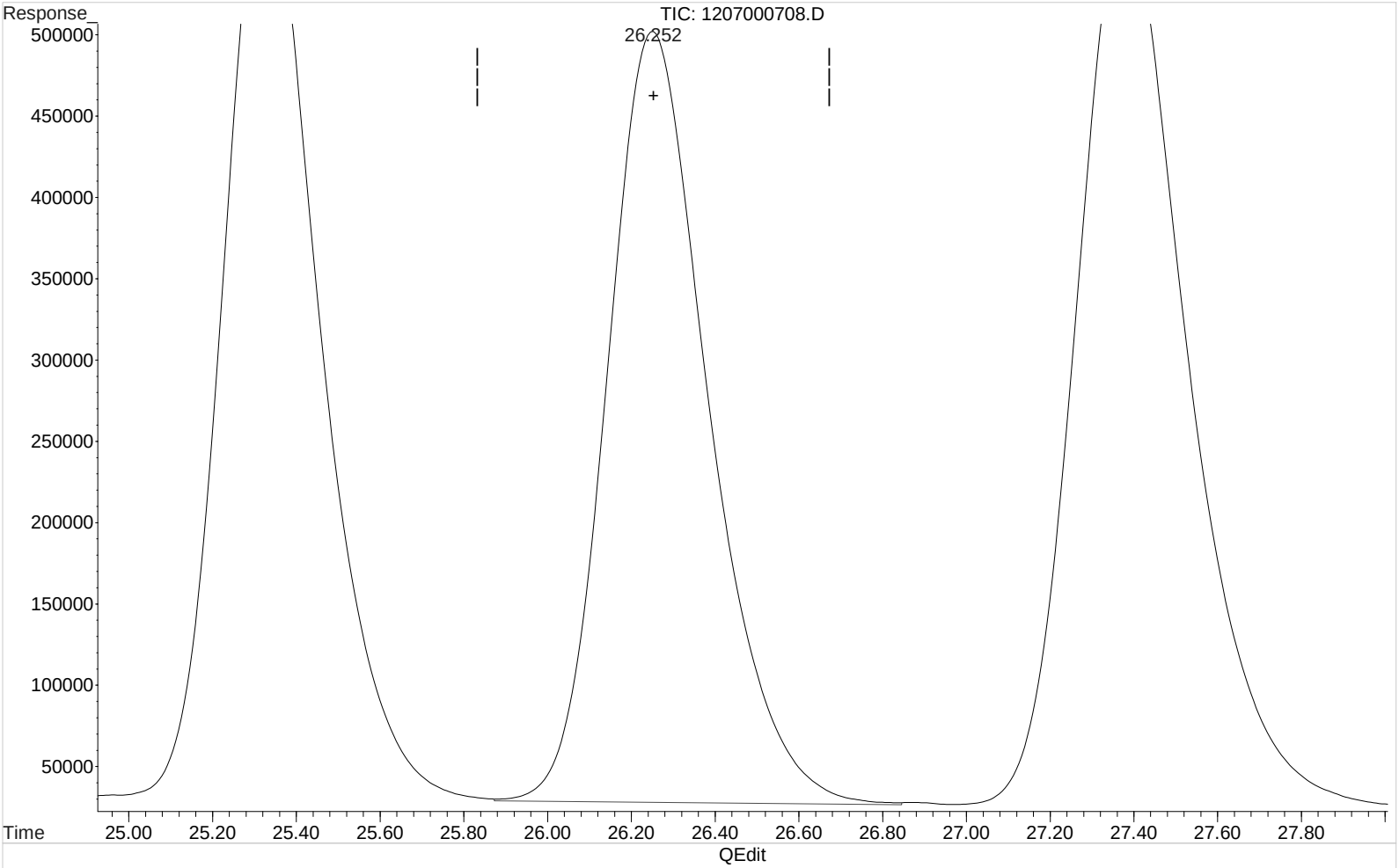
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.252min 496.306 ug/L m

response 8010069

Manual Integration:

After

BLC

12/08/16

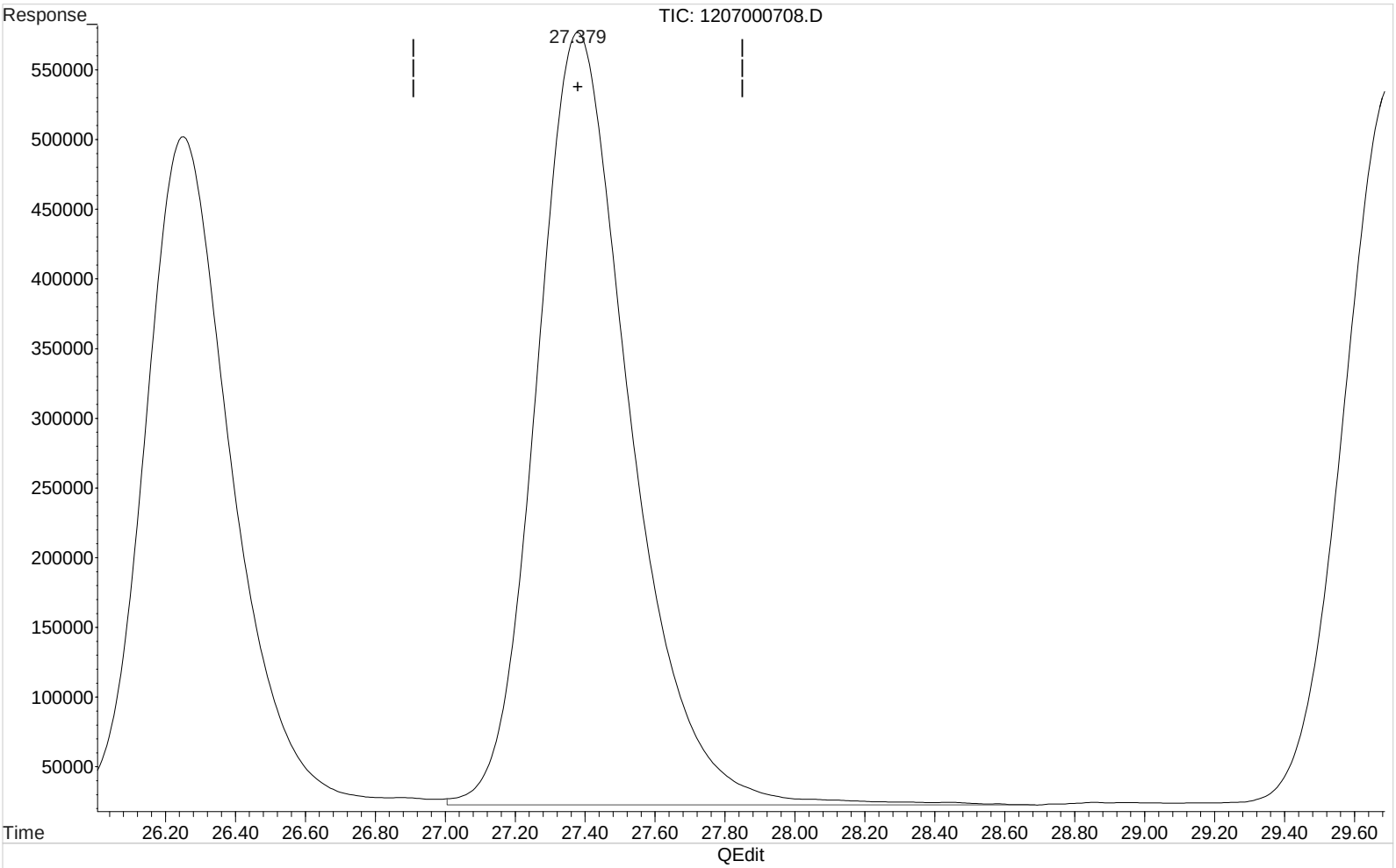
(+) = Expected Retention Time

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(17) 3-NT (T)

27.379min 512.791 ug/L

response 10357684

Manual Integration:

Before

12/08/16

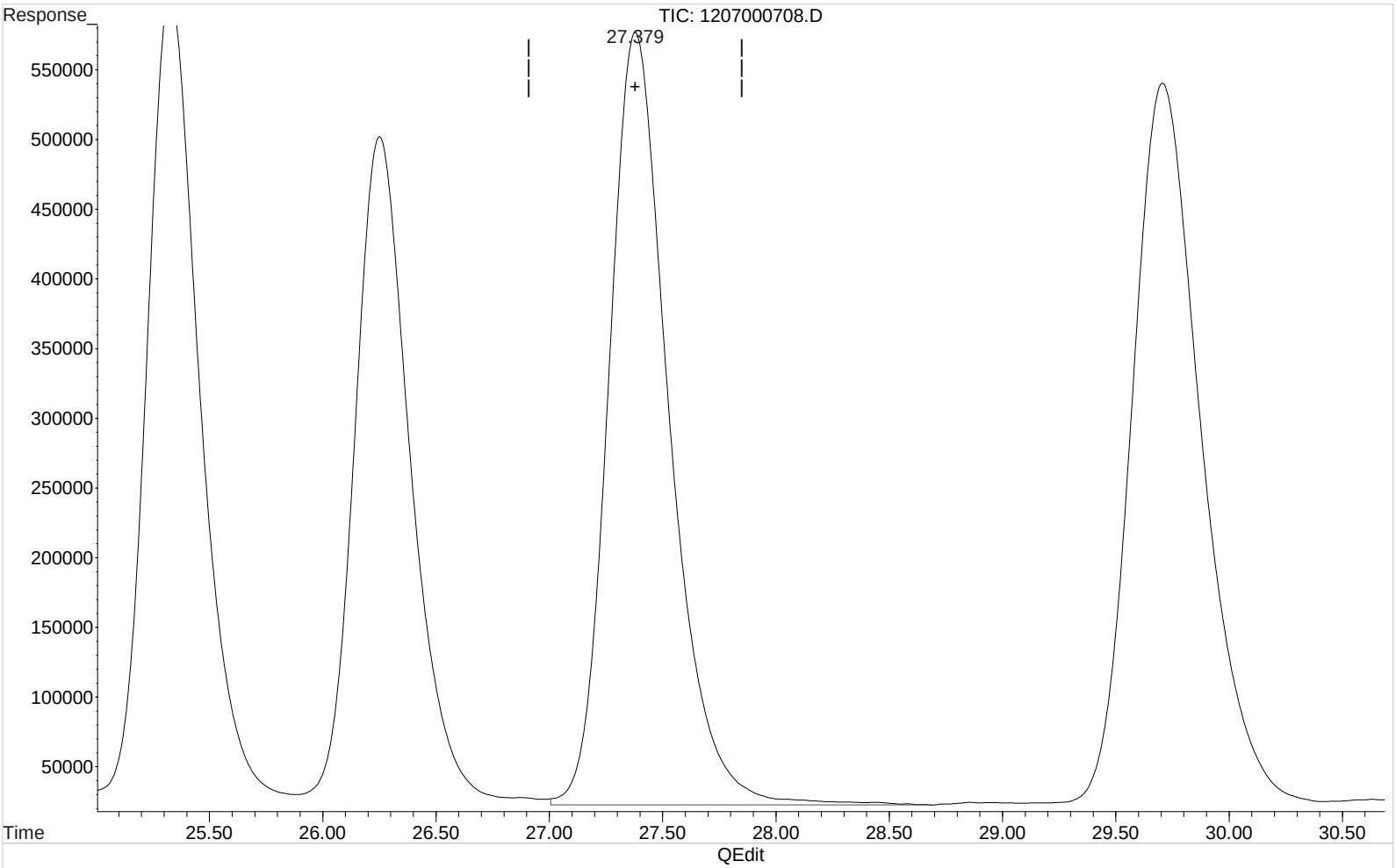
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.379min 512.791 ug/L

response 10357684

Manual Integration:

Before

12/08/16

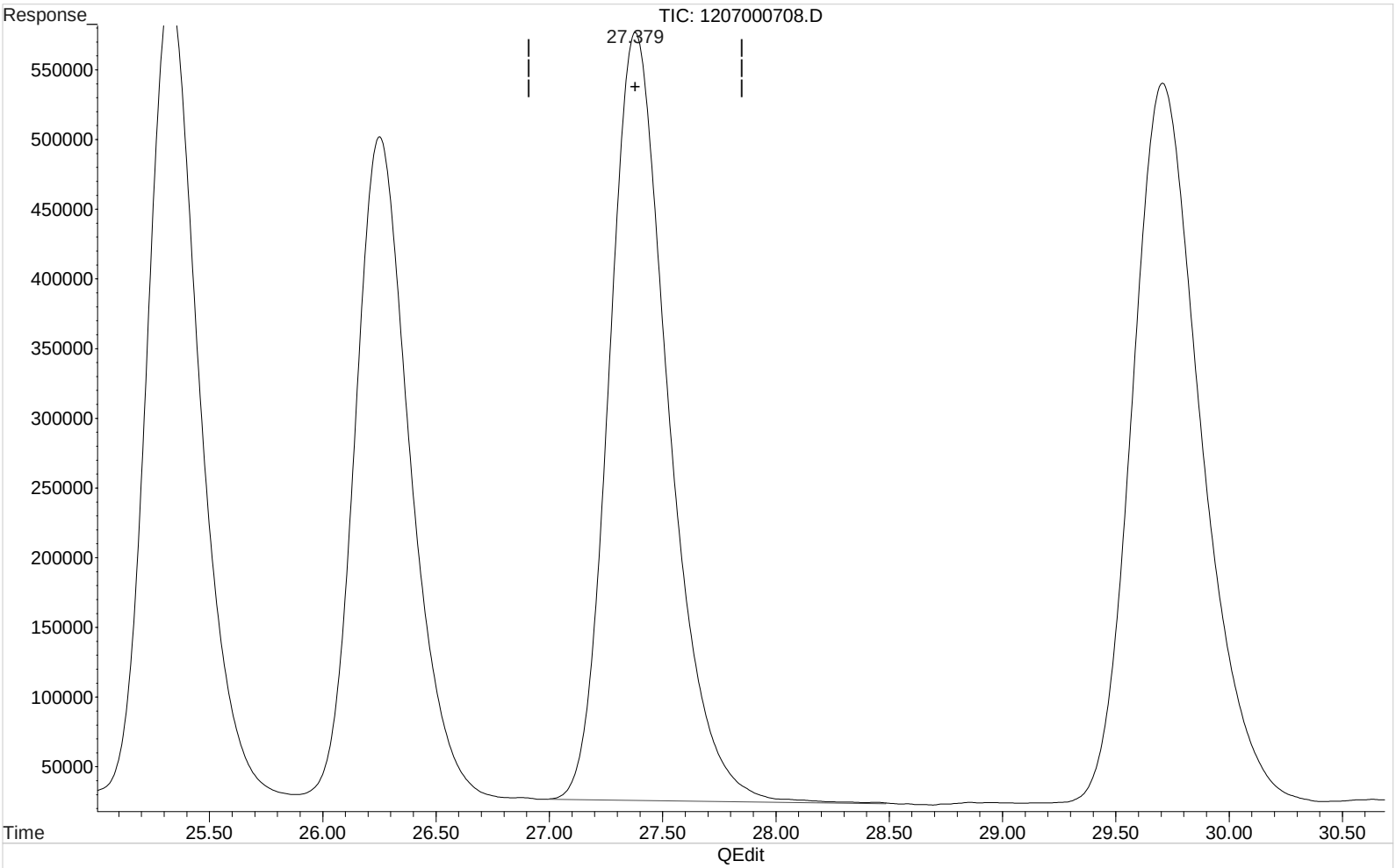
(+) = Expected Retention Time

1st (b) (6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.379min 501.548 ug/L m

response 10130589

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000709.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:17:24 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:16:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
18)	S	1-Chloro-3-Nitrobenzene	29.704	21424748	965.714	ug/L	
		Target Compounds					
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	4.784	11949913	996.887	ug/L	
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	8.377	19595263	979.158	ug/L	
5)	T	1,3,5-TNB	10.517	44322350	986.108	ug/L	
6)	T	1,3-DNB	13.864	59271553	972.844	ug/L	
7)	T	3,5-Dinitroaniline	14.970	47161666	983.273	ug/L	
8)	T	Tetryl	15.584	33058166	984.167	ug/L	
9)	T	Nitrobenzene	16.190	38294717	987.582	ug/L	
10)	T	2,4,6-TNT	17.424	41608108	1001.093	ug/L	
11)	T	4-Amino-2,6-DNT	19.184	29562551	1006.339	ug/L	
12)	T	2-Amino-4,6-DNT	20.017	41752958	966.360	ug/L	
13)	T	2,6-DNT	21.744	24453723	997.554	ug/L	m
14)	T	2,4-DNT	22.204	58902914	999.743	ug/L	m
15)	T	2-NT	25.324	17886628	993.209	ug/L	
16)	T	4-NT	26.244	15580571	966.804	ug/L	
17)	T	3-NT	27.377	20277426	1003.280	ug/L	

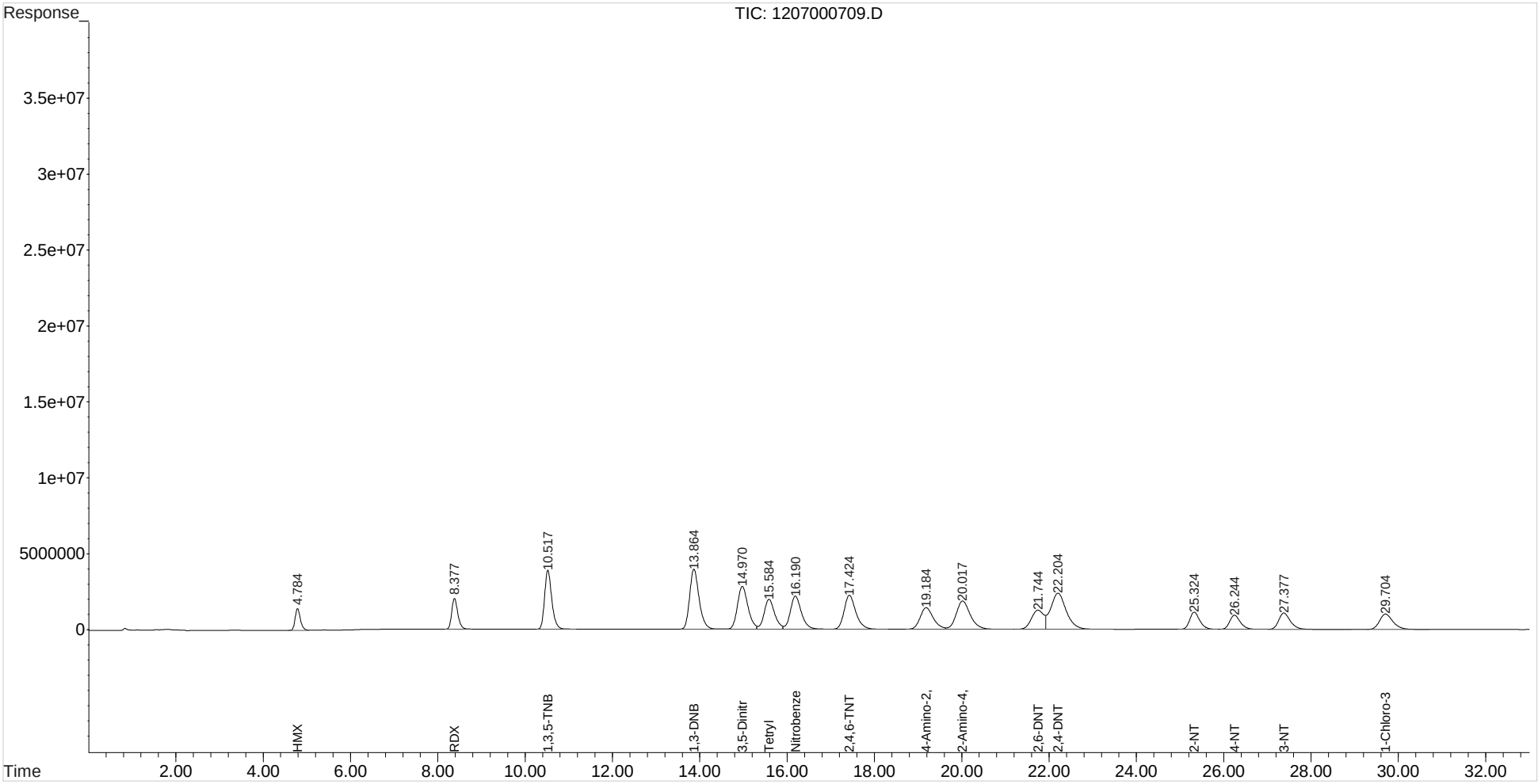
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000709.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:17:24 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:16:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

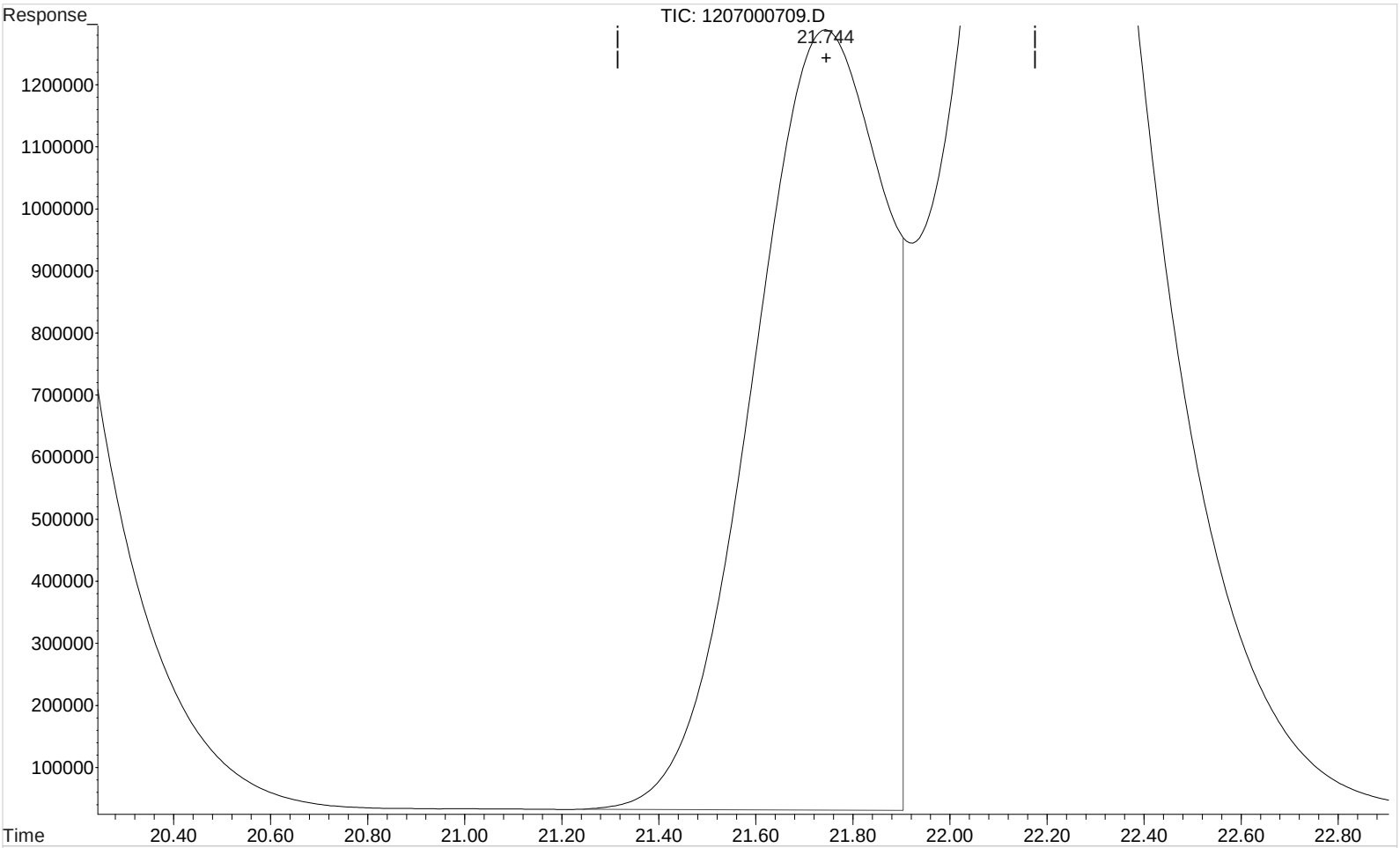


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000709.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:16:36 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:16:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.744min 967.112 ug/L

response 23707470

Manual Integration:

Before

12/08/16

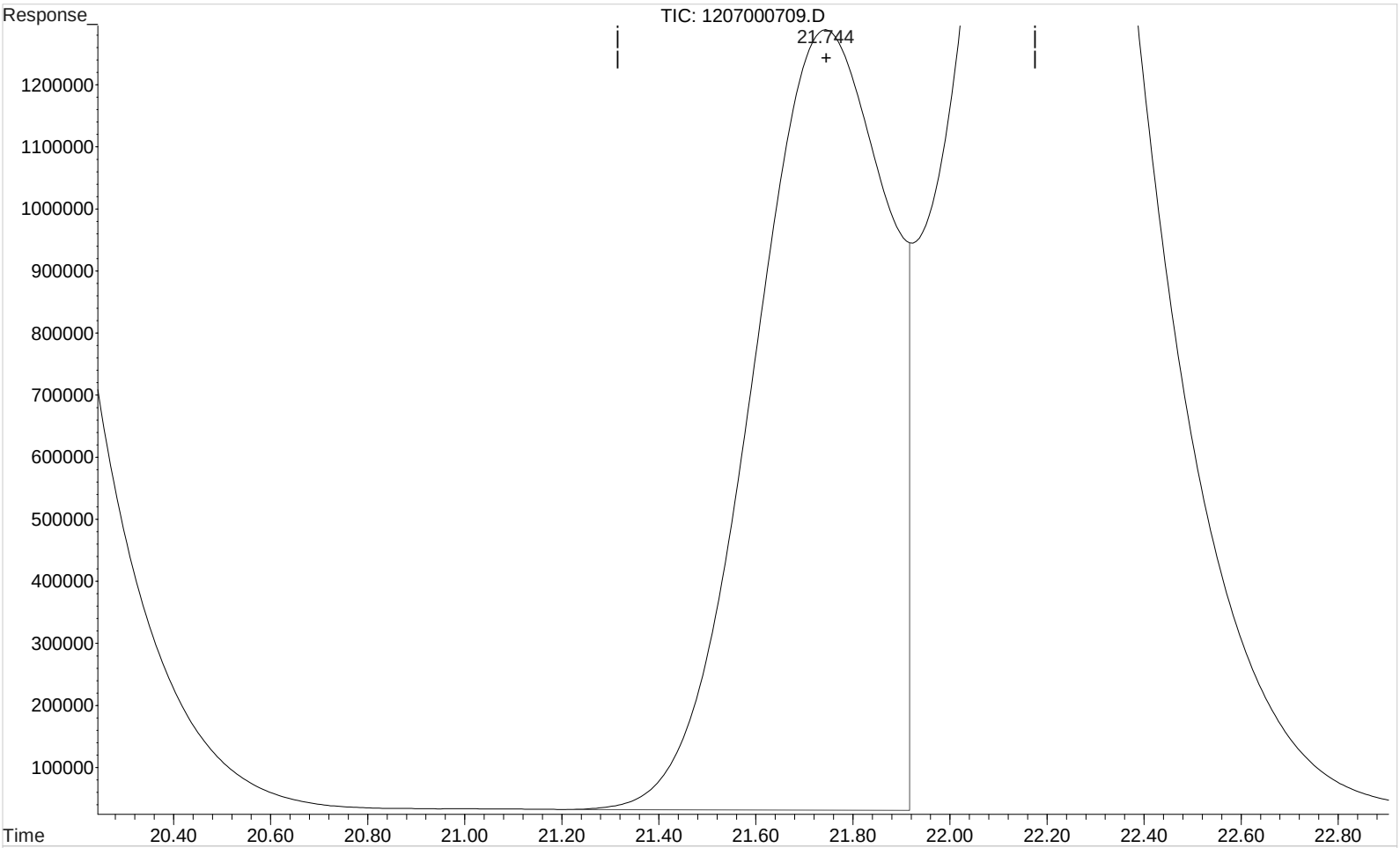
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000709.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:16:36 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:16:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.744min 997.554 ug/L m

response 24453723

Manual Integration:

After

BLC

12/08/16

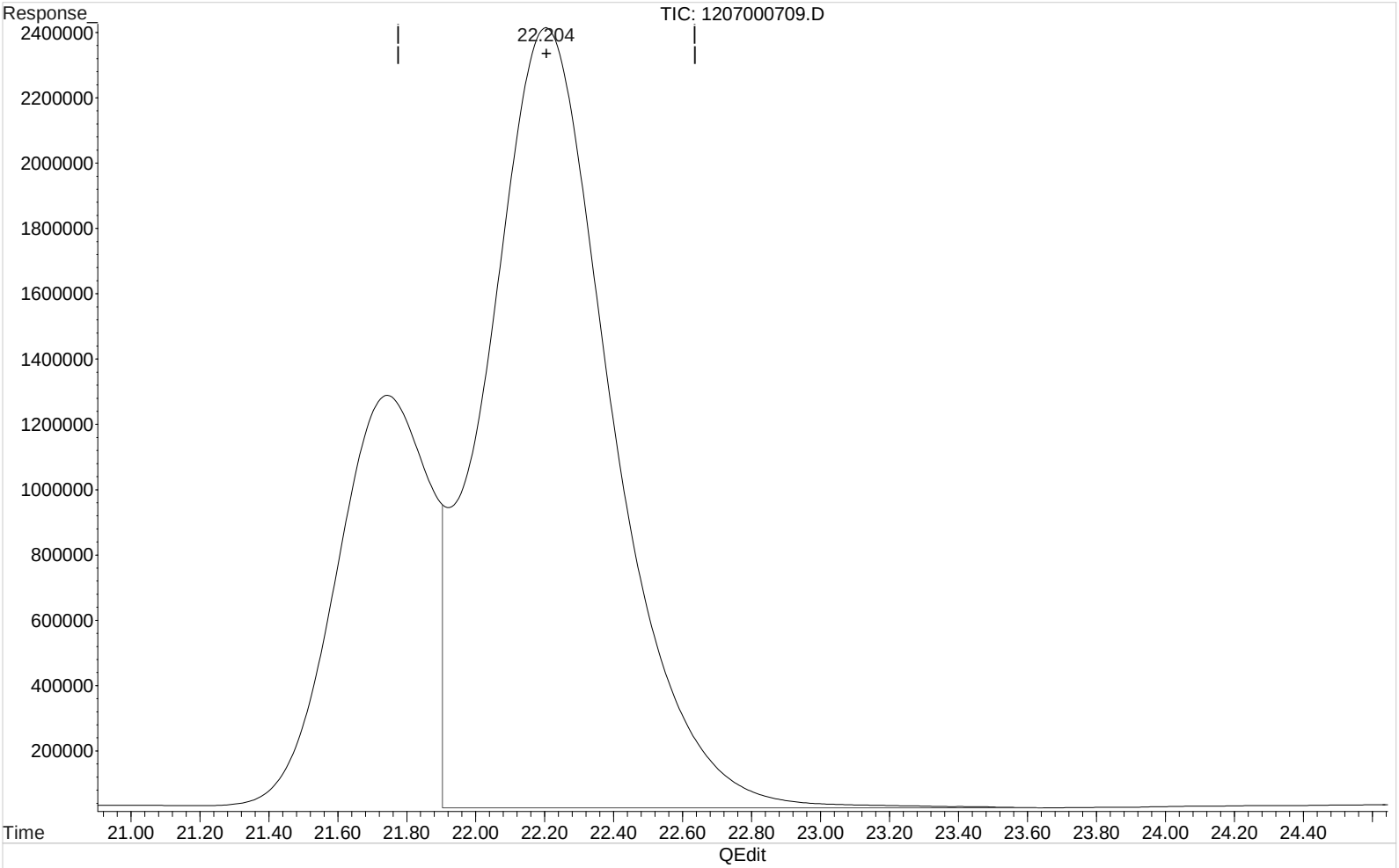
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000709.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:16:36 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:16:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.204min 1026.588 ug/L

response 60484608

Manual Integration:

Before

12/08/16

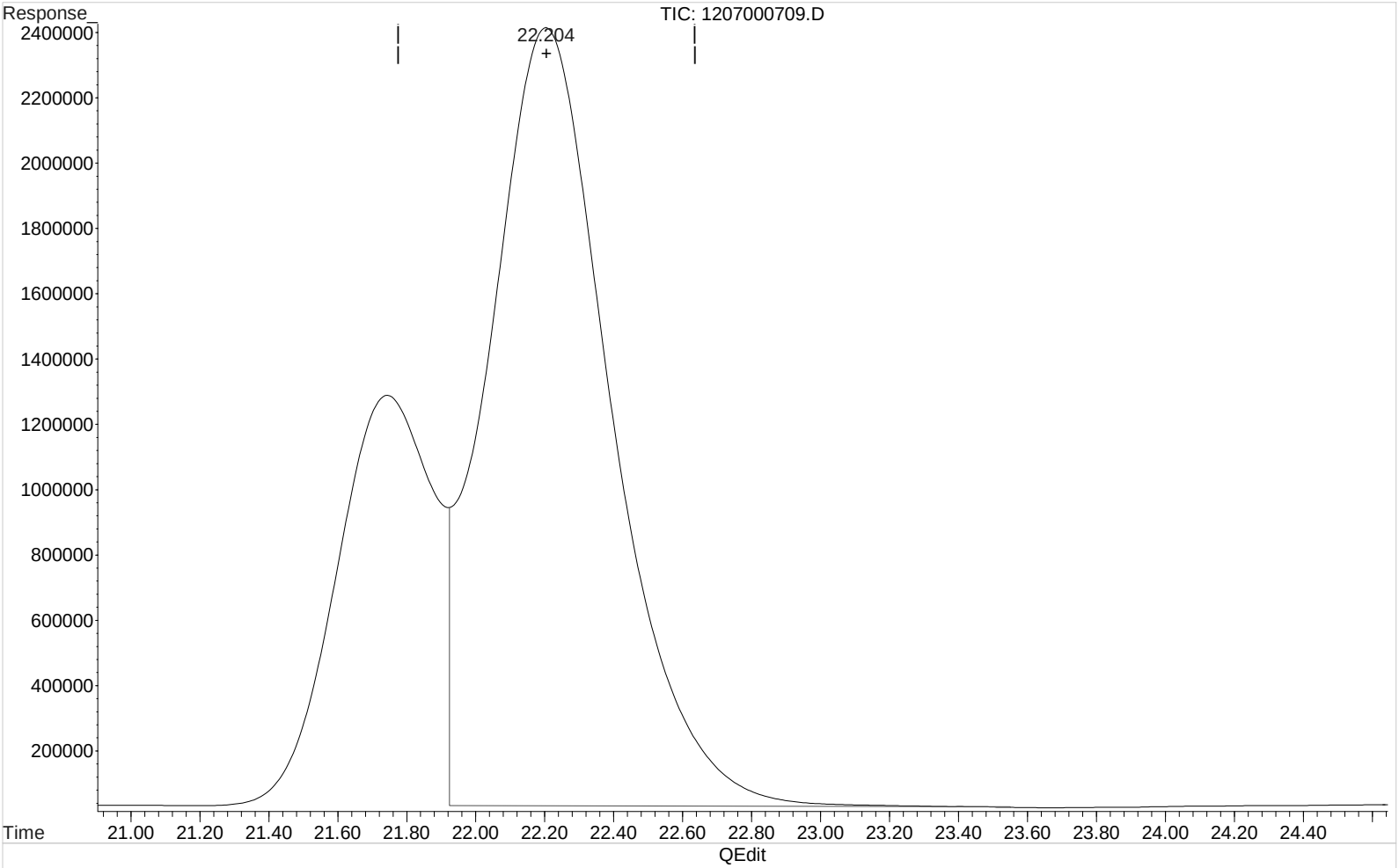
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000709.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:16:36 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:16:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.204min 999.743 ug/L m

response 58902914

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:19:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds							
18)	S	1-Chloro-3-Nitrobenzene	29.700	42294963	1917.388	ug/L	
Target Compounds							
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	4.787	23722211	1979.985	ug/L	m
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	8.380	38913573	1951.255	ug/L	
5)	T	1,3,5-TNB	10.520	87503916	1951.353	ug/L	
6)	T	1,3-DNB	13.860	117702258	1940.670	ug/L	
7)	T	3,5-Dinitroaniline	14.967	93512376	1955.089	ug/L	m
8)	T	Tetryl	15.587	65318779	1949.736	ug/L	
9)	T	Nitrobenzene	16.200	76224644	1969.834	ug/L	
10)	T	2,4,6-TNT	17.440	82170115	1976.657	ug/L	
11)	T	4-Amino-2,6-DNT	19.200	58780326	1998.831	ug/L	
12)	T	2-Amino-4,6-DNT	20.034	81844649	1904.951	ug/L	
13)	T	2,6-DNT	21.754	47948148	1956.773	ug/L	m
14)	T	2,4-DNT	22.214	117648318	1996.898	ug/L	m
15)	T	2-NT	25.327	35281189	1961.314	ug/L	
16)	T	4-NT	26.247	30767210	1919.786	ug/L	
17)	T	3-NT	27.380	39399716	1948.341	ug/L	

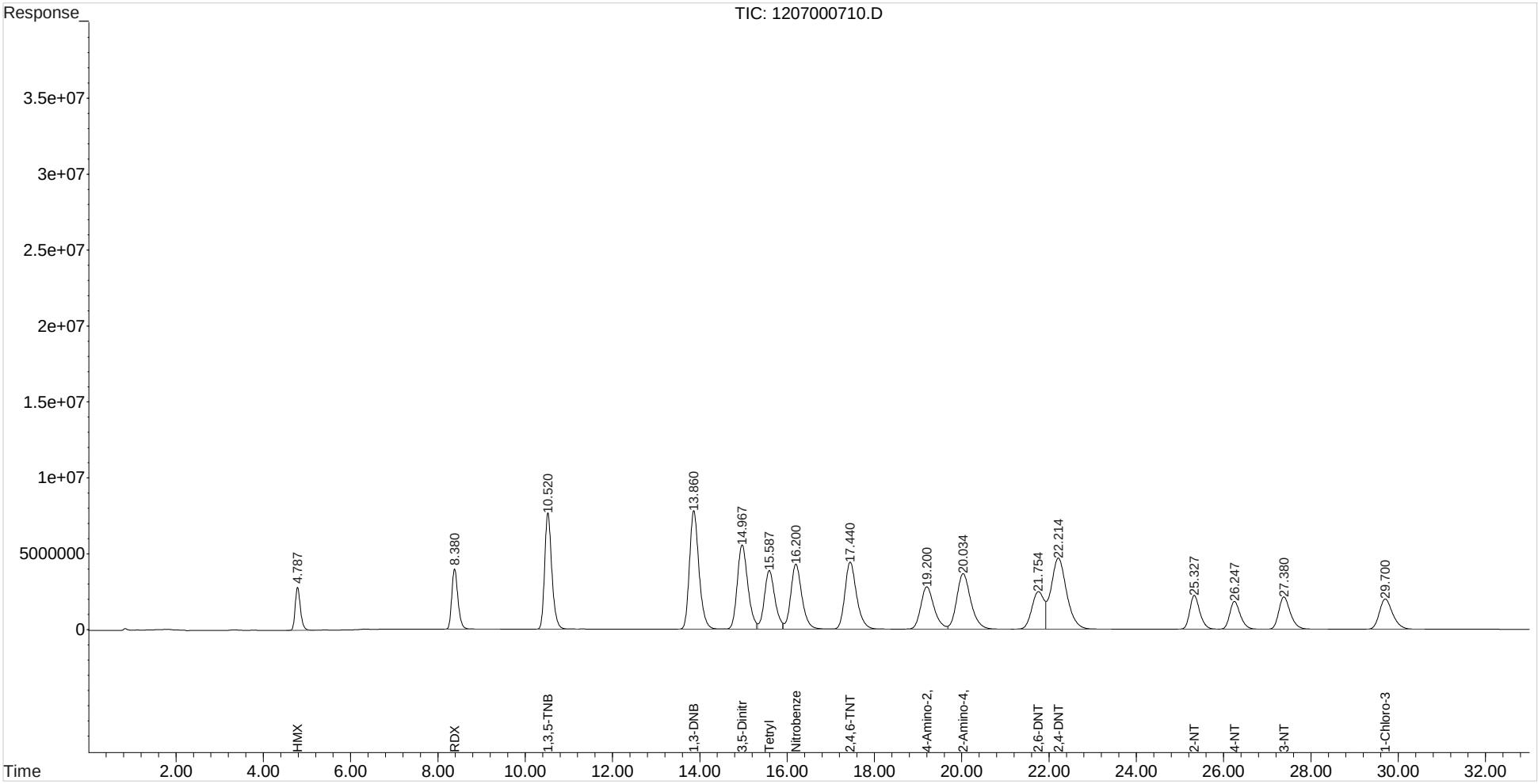
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:19:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

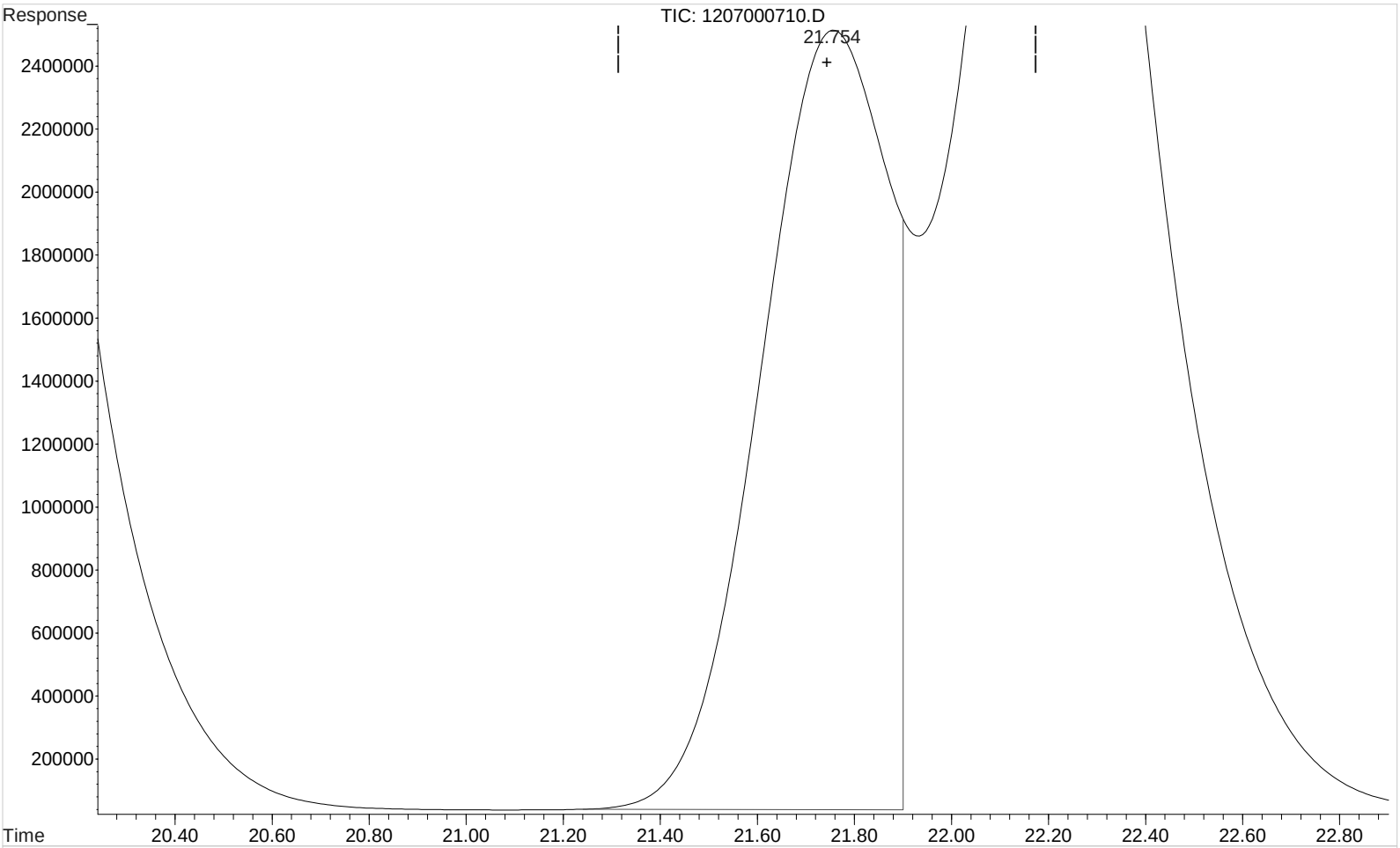


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.754min 1840.068 ug/L

response 45088454

Manual Integration:

Before

12/08/16

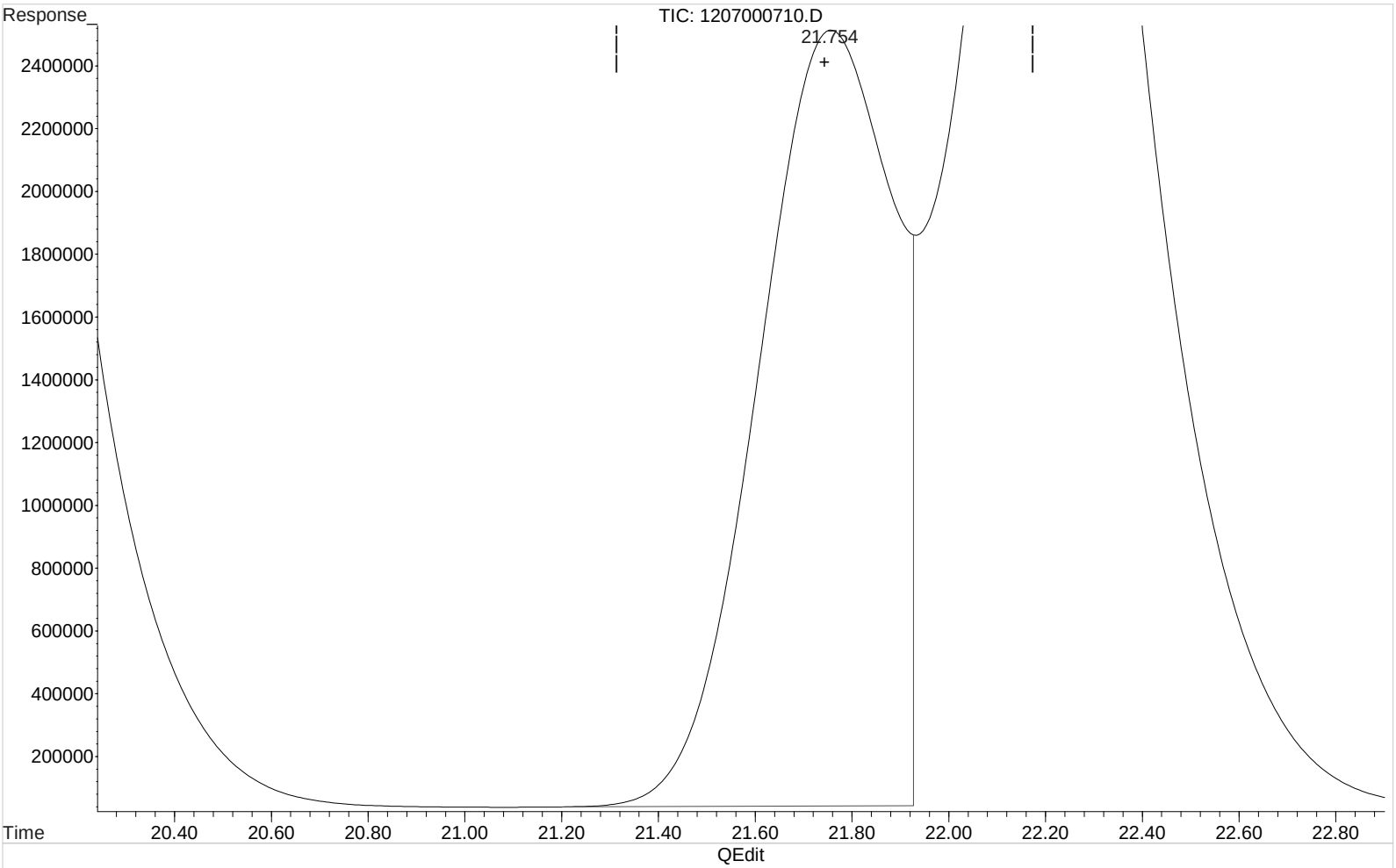
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.754min 1956.773 ug/L m

response 47948148

Manual Integration:

After

WP

12/08/16

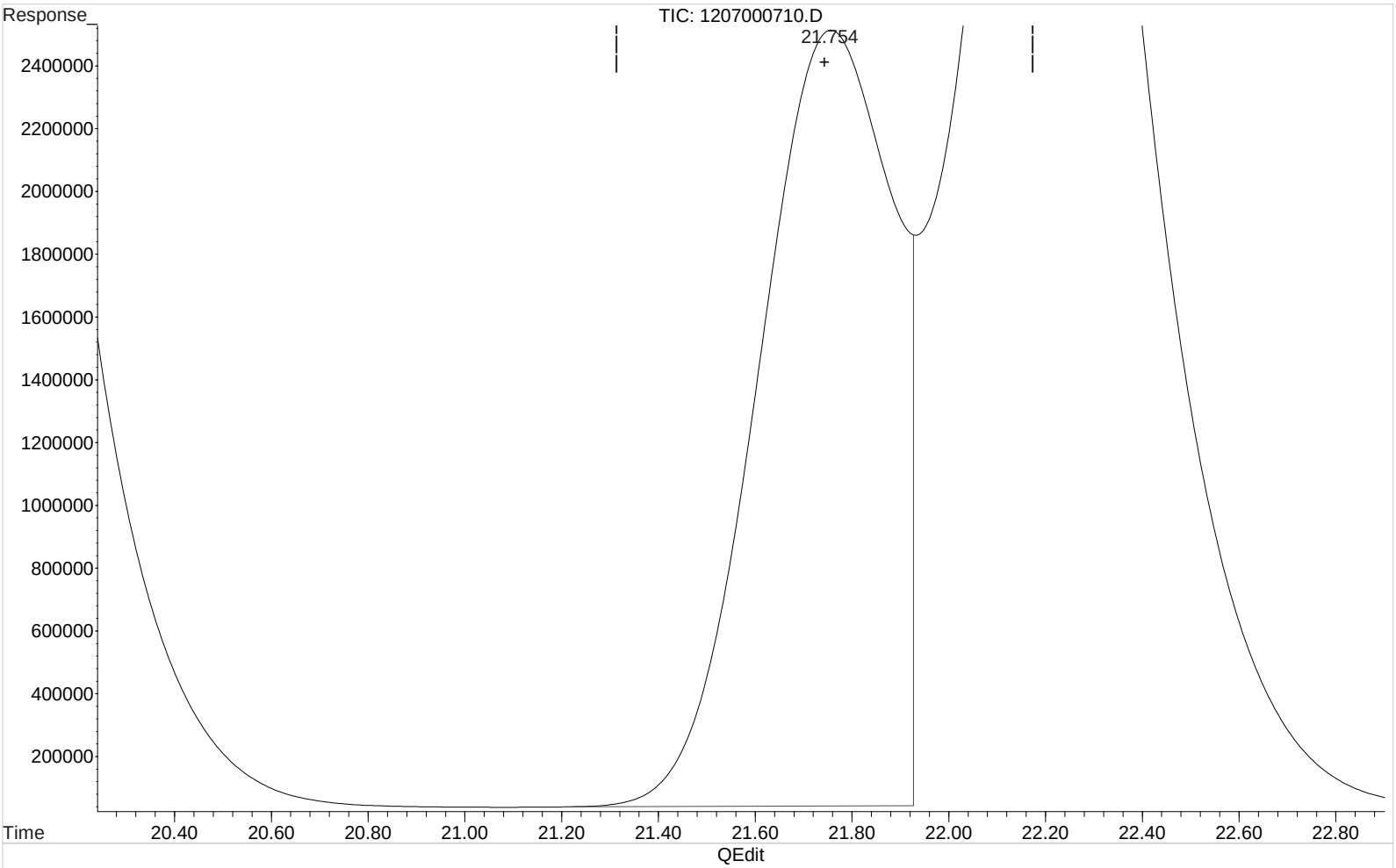
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.754min 1956.773 ug/L m

response 47948148

Manual Integration:

After

BLC

12/08/16

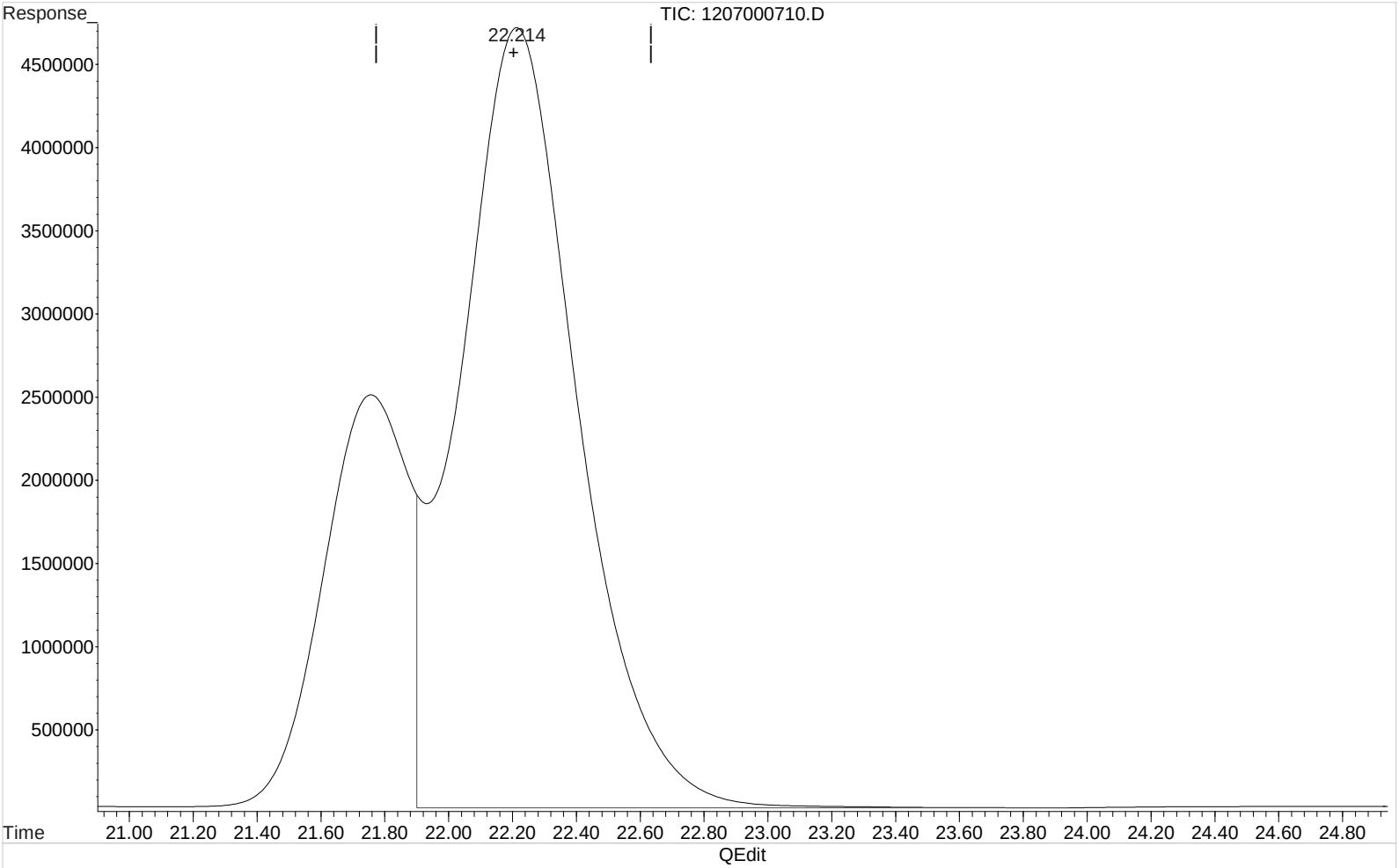
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.214min 2045.708 ug/L

response 120524006

Manual Integration:

Before

12/08/16

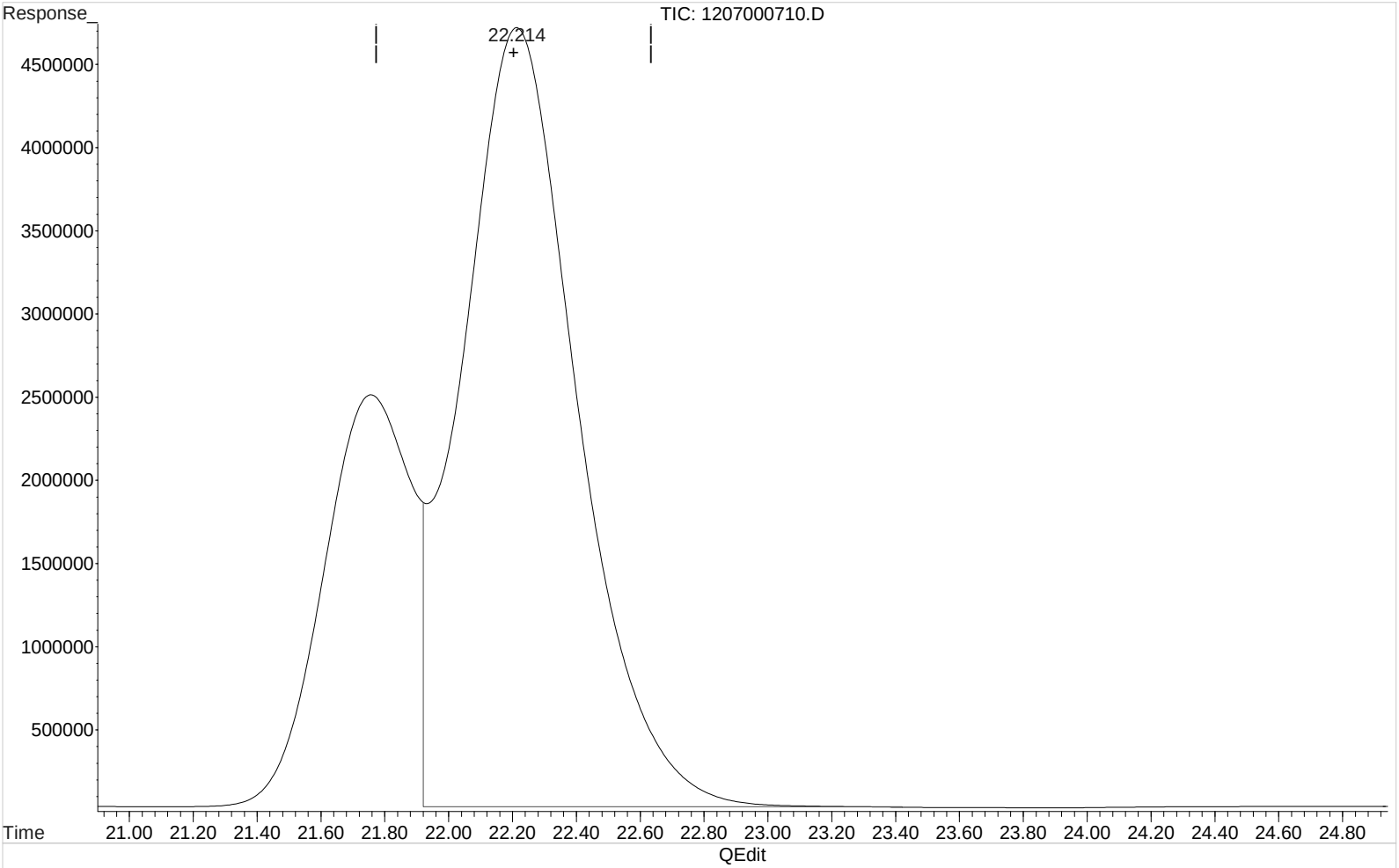
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.214min 1996.898 ug/L m

response 117648318

Manual Integration:

After

BLC

12/08/16

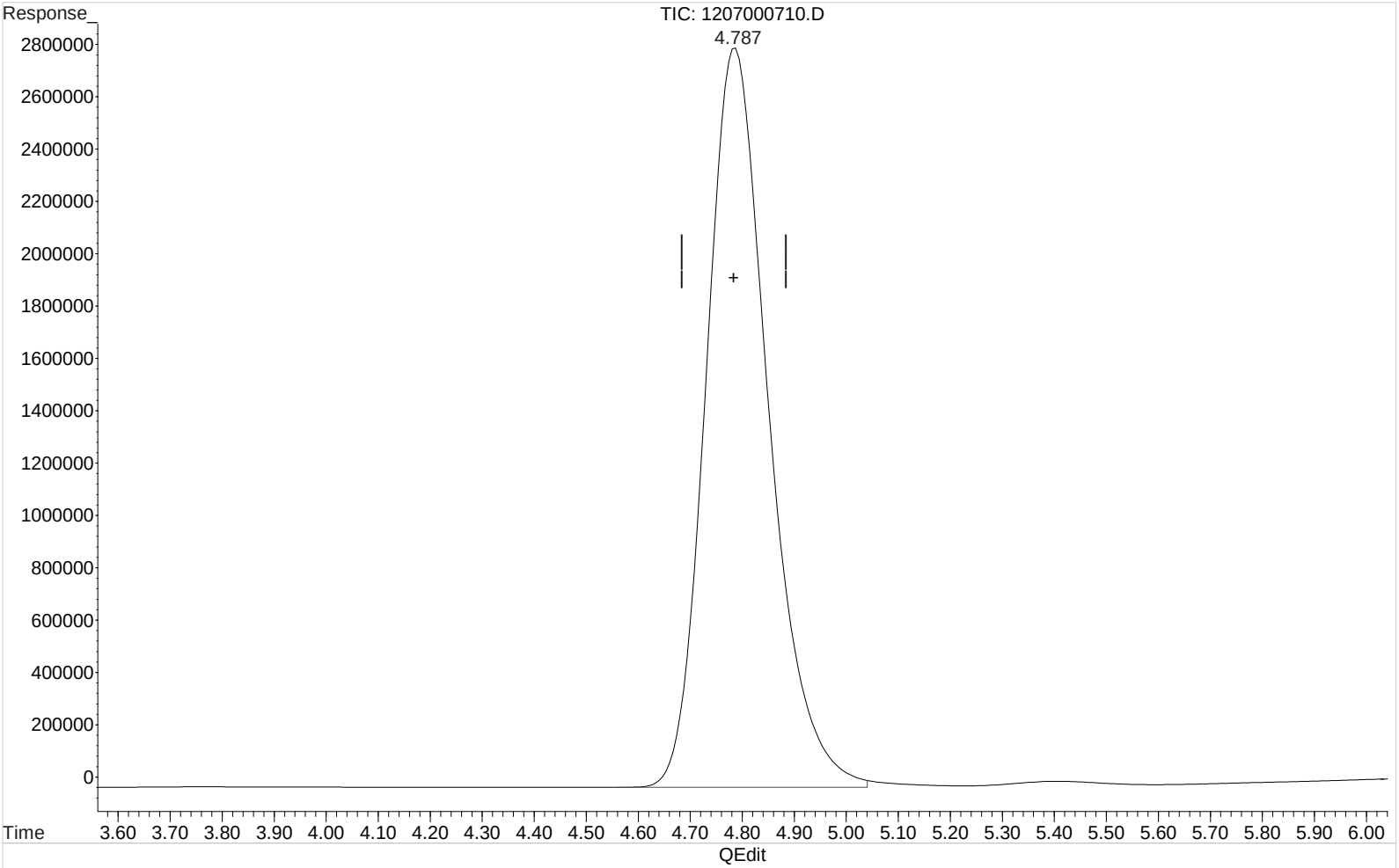
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(2) HMX (T)

4.787min 1973.169 ug/L

response 23640553

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

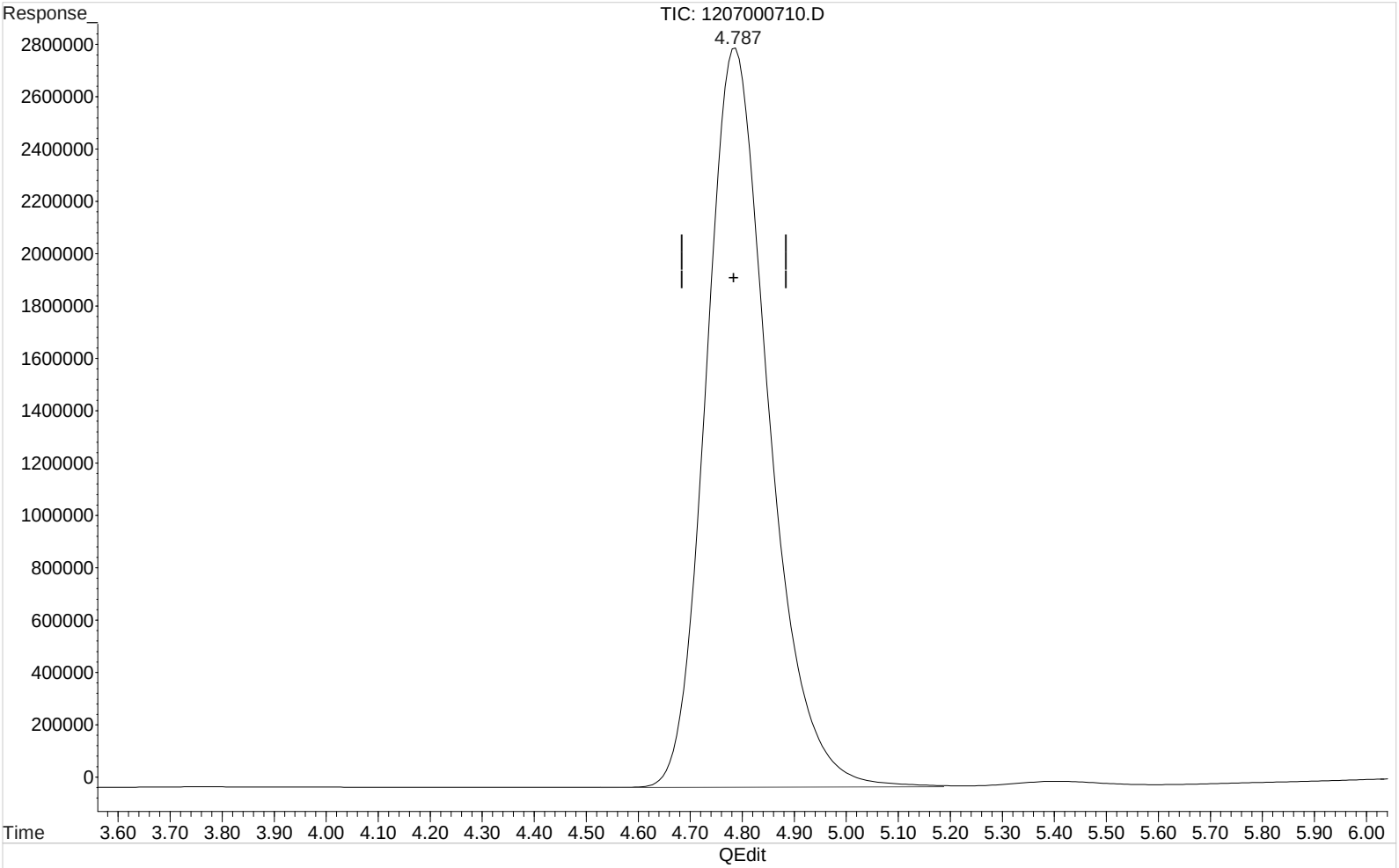
120716_8330B@254.M Thu Dec 08 09:17:59 2016

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(2) HMX (T)

4.787min 1979.985 ug/L m

response 23722211

Manual Integration:

After

BLC

12/08/16

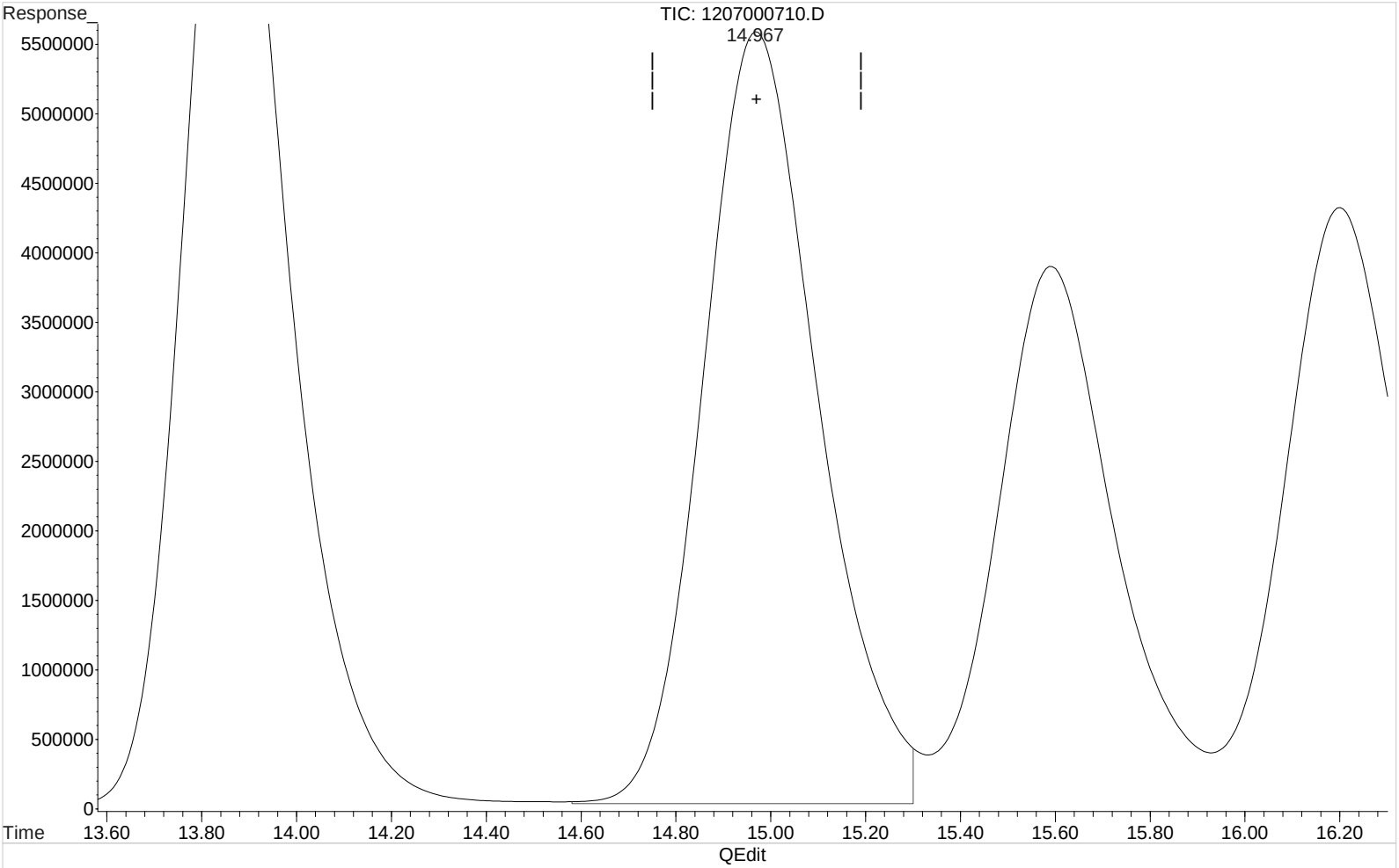
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(7) 3,5-Dinitroaniline (T)

14.967min 1950.402 ug/L

response 93288206

Manual Integration:

Before

12/08/16

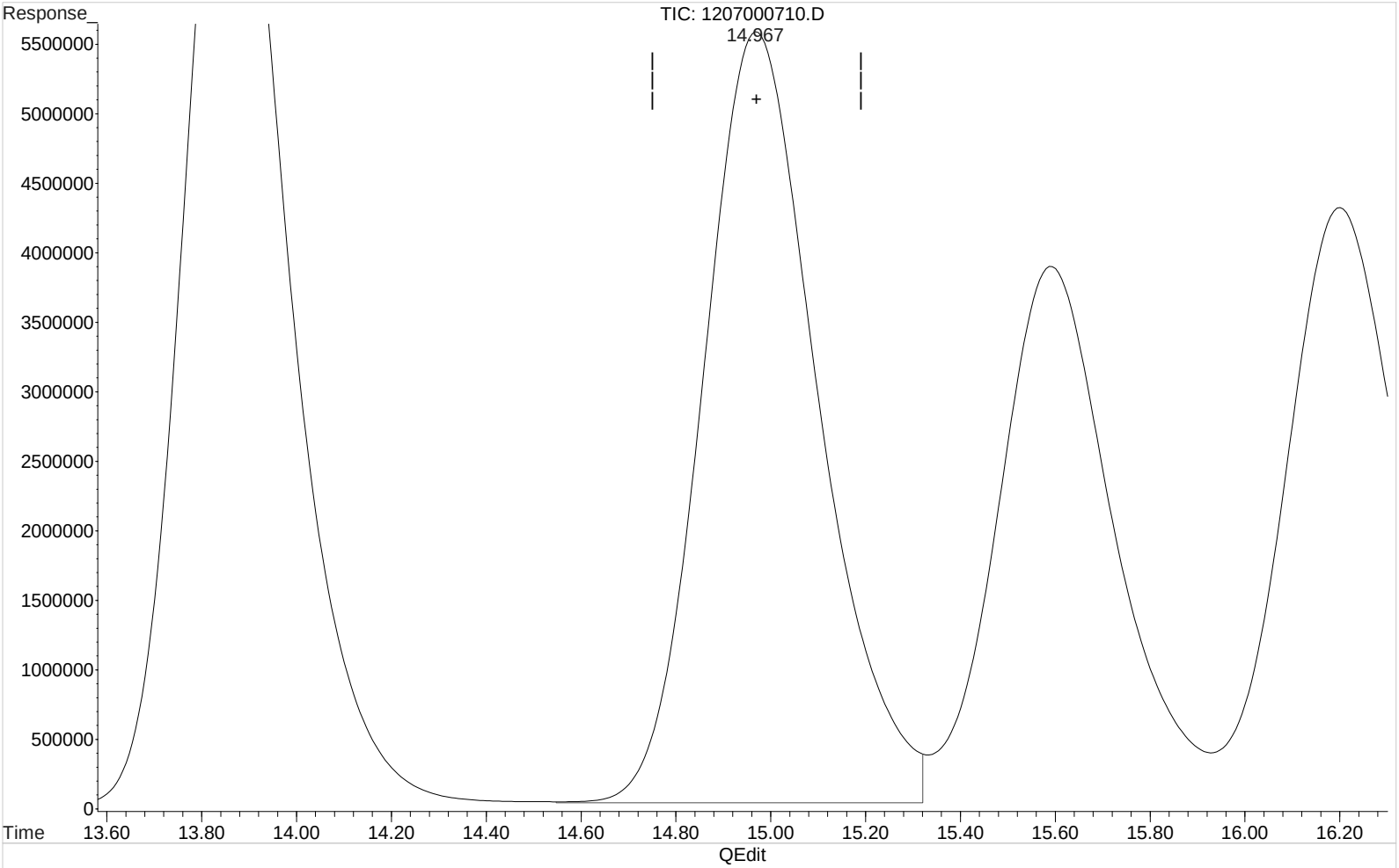
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.967min 1955.089 ug/L m

response 93512376

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000711.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:19:50 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:19:28 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	29.688	109933967	5013.299	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	4.795	61046558	5102.573	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	8.375	100409384	5052.450	ug/L
5)	T	1,3,5-TNB	10.501	226131460	5060.356	ug/L
6)	T	1,3-DNB	13.835	304056740	5034.610	ug/L
7)	T	3,5-Dinitroaniline	14.941	242816511	5092.969	ug/L
8)	T	Tetryl	15.568	169129908	5066.642	ug/L
9)	T	Nitrobenzene	16.168	196342707	5084.940	ug/L
10)	T	2,4,6-TNT	17.421	212586394	5122.448	ug/L
11)	T	4-Amino-2,6-DNT	19.175	150900677	5131.820	ug/L
12)	T	2-Amino-4,6-DNT	20.001	212629441	4982.823	ug/L
13)	T	2,6-DNT	21.735	123855451	5070.219	ug/L
14)	T	2,4-DNT	22.188	303841514	5158.381	ug/L
15)	T	2-NT	25.308	91795667	5117.146	ug/L
16)	T	4-NT	26.235	79961280	5018.107	ug/L
17)	T	3-NT	27.361	102384406	5081.725	ug/L

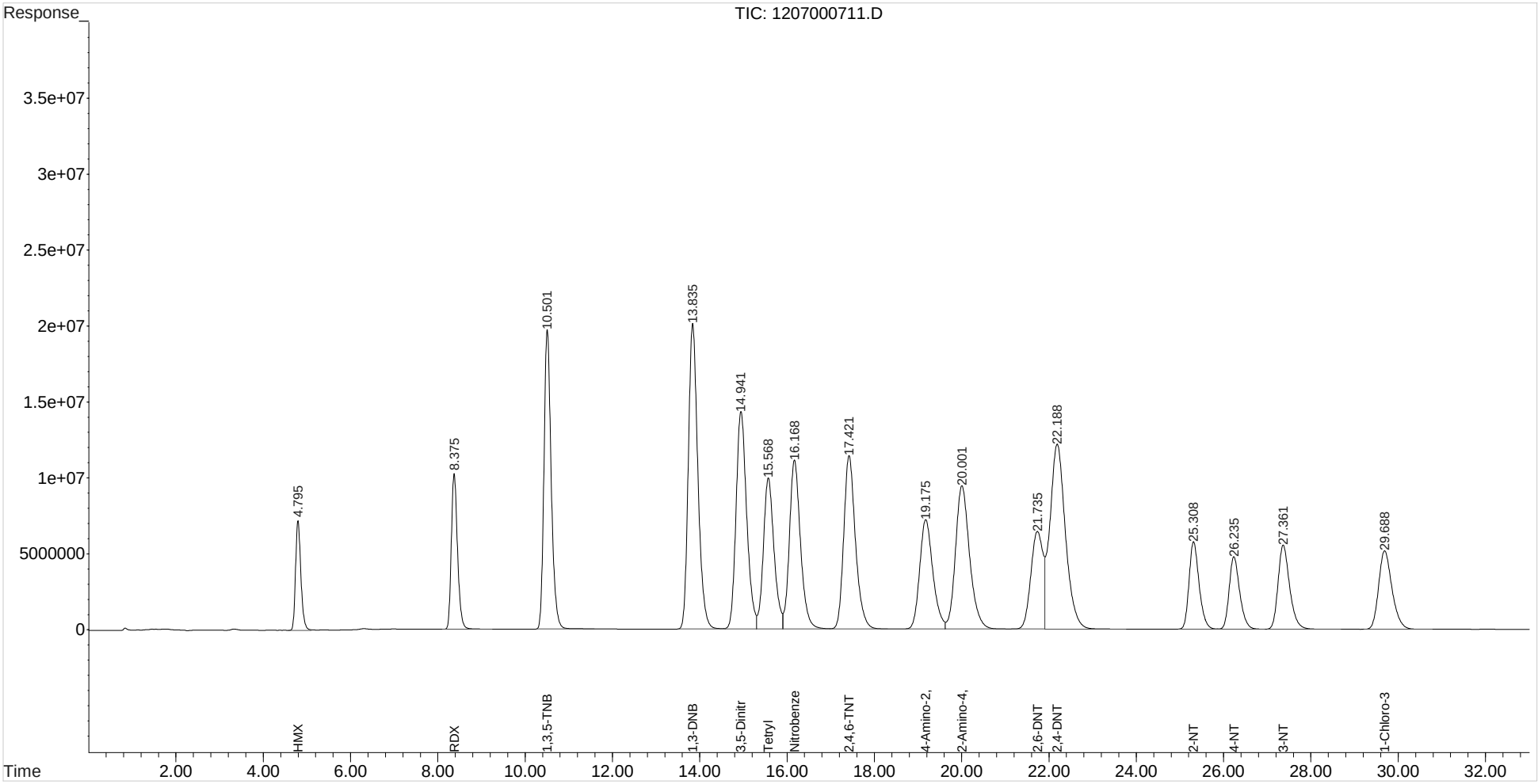
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000711.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:19:50 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:19:28 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000712.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:21:24 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:20:15 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
18)	S	1-Chloro-3-Nitrobenzene	29.704	188214338	8580.252	ug/L	
		Target Compounds					
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	4.784	116952177	9750.438	ug/L	m
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	8.378	193516345	9724.702	ug/L	
5)	T	1,3,5-TNB	10.518	436043077	9743.045	ug/L	
6)	T	1,3-DNB	13.844	585109637	9679.945	ug/L	
7)	T	3,5-Dinitroaniline	14.958	466801971	9768.261	ug/L	
8)	T	Tetryl	15.584	328561092	9826.366	ug/L	
9)	T	Nitrobenzene	16.191	378180319	9773.468	ug/L	
10)	T	2,4,6-TNT	17.438	410119977	9852.027	ug/L	
11)	T	4-Amino-2,6-DNT	19.191	290587885	9849.834	ug/L	
12)	T	2-Amino-4,6-DNT	20.018	410849938	9632.119	ug/L	
13)	T	2,6-DNT	21.751	239813080	9799.925	ug/L	m
14)	T	2,4-DNT	22.198	592003966	10010.937	ug/L	
15)	T	2-NT	25.318	175973088	9780.967	ug/L	
16)	T	4-NT	26.244	153399761	9622.509	ug/L	
17)	T	3-NT	27.371	196431690	9729.768	ug/L	

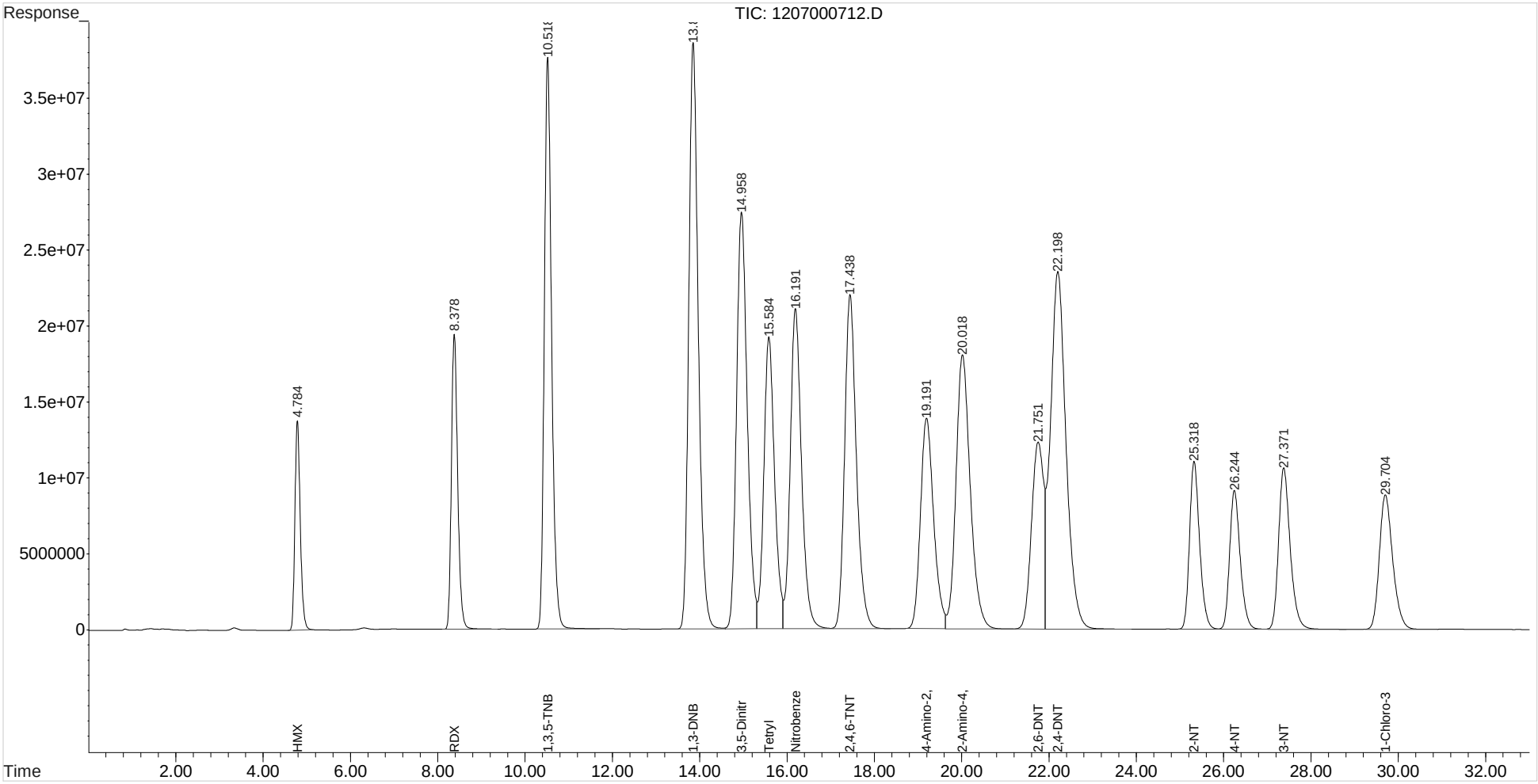
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000712.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:21:24 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:20:15 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

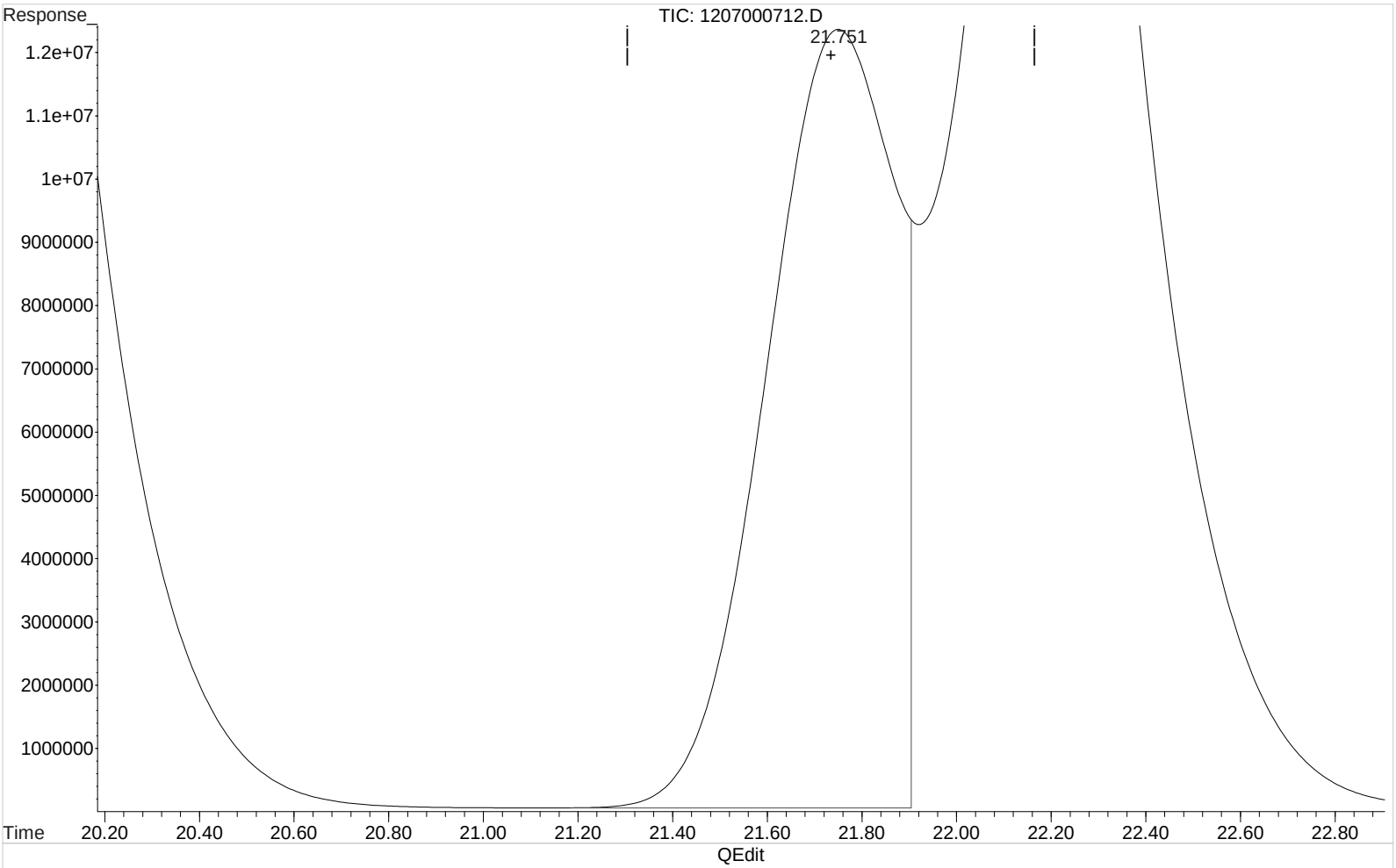


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000712.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:20:40 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:20:15 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.751min 9489.334 ug/L

response 232212639

Manual Integration:

Before

12/08/16

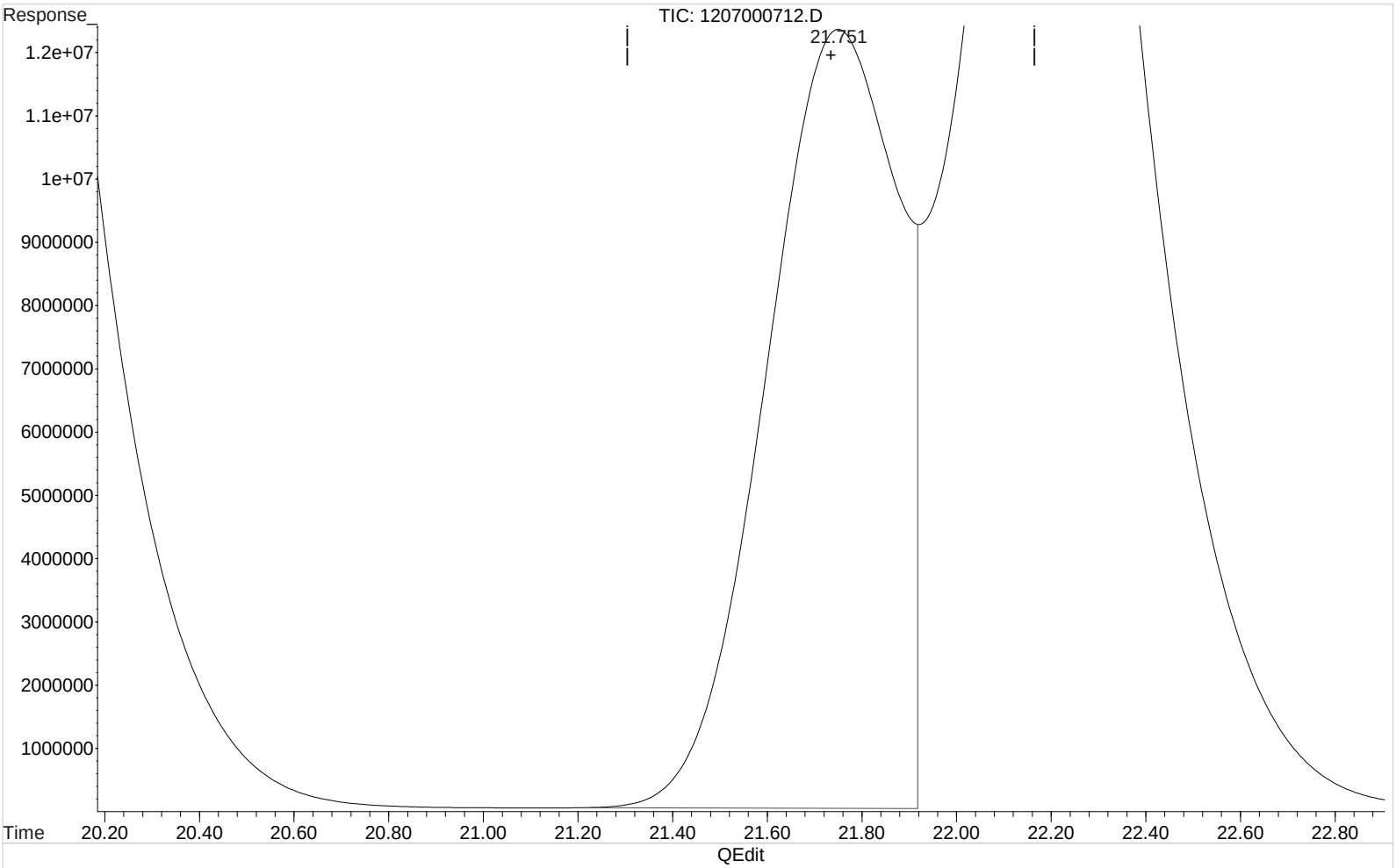
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000712.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:20:40 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:20:15 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.751min 9799.925 ug/L m

response 239813080

Manual Integration:

After

BLC

12/08/16

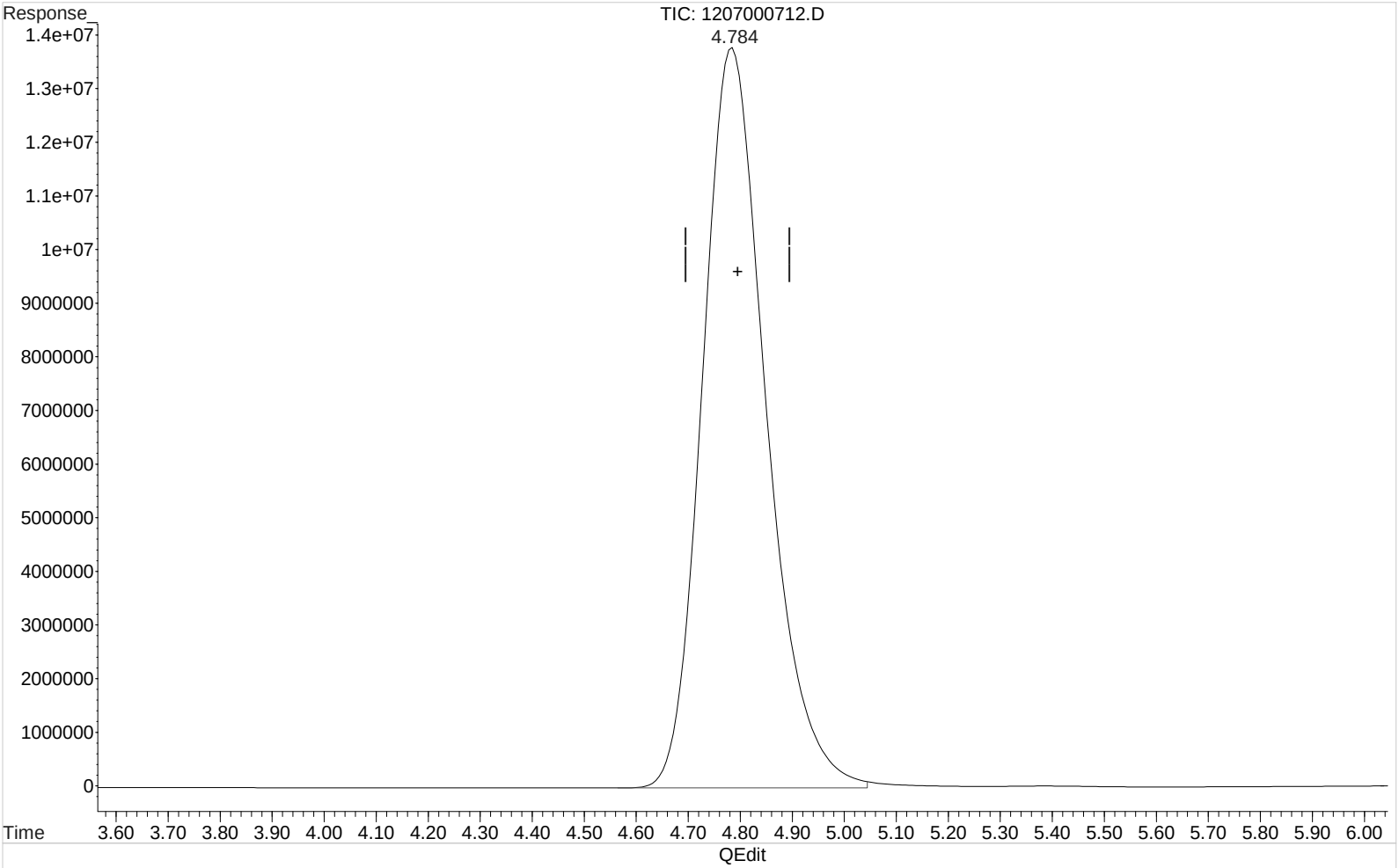
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000712.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:20:40 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:20:15 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(2) HMX (T)

4.784min 9782.211 ug/L

response 117333279

Manual Integration:

Before

12/08/16

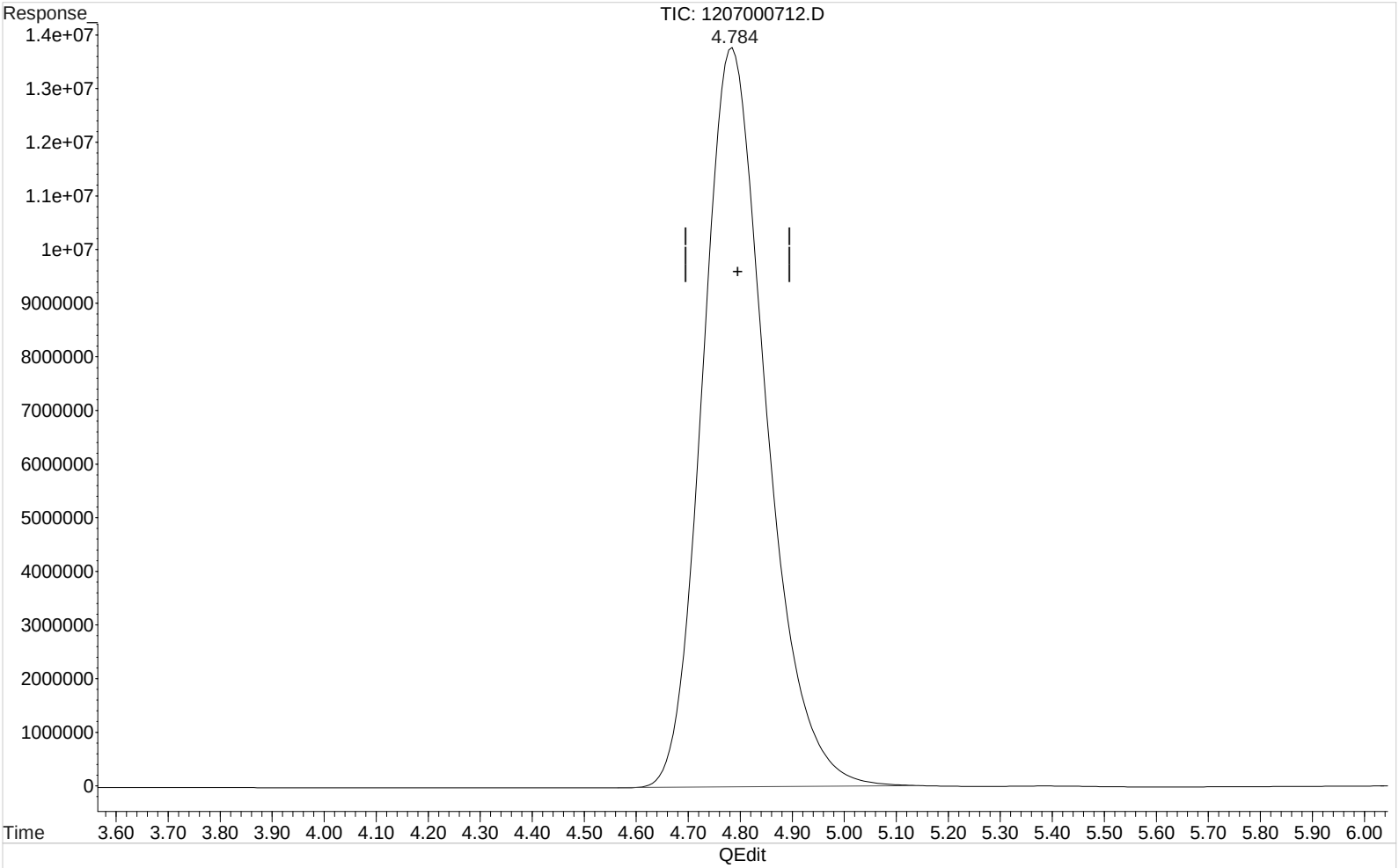
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000712.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:20:40 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:20:15 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(2) HMX (T)

4.784min 9750.438 ug/L m

response 116952177

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:23:02 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
18)	S	1-Chloro-3-Nitrobenzene	29.704	435685183	20180.213	ug/L	
		Target Compounds					
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	4.777	241966350	20229.108	ug/L	m
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	8.371	401104321	20218.386	ug/L	
5)	T	1,3,5-TNB	10.511	900466088	20177.826	ug/L	
6)	T	1,3-DNB	13.844	1214946342	20171.579	ug/L	
7)	T	3,5-Dinitroaniline	14.944	968917588	20327.834	ug/L	
8)	T	Tetryl	15.578	672938780	20164.667	ug/L	
9)	T	Nitrobenzene	16.184	775365787	20088.658	ug/L	
10)	T	2,4,6-TNT	17.438	850093674	20454.841	ug/L	
11)	T	4-Amino-2,6-DNT	19.184	601309368	20416.185	ug/L	
12)	T	2-Amino-4,6-DNT	20.004	851309194	20040.326	ug/L	
13)	T	2,6-DNT	21.758	497576104	20378.674	ug/L	m
14)	T	2,4-DNT	22.204	1201394842	20313.423	ug/L	m
15)	T	2-NT	25.324	362650447	20206.077	ug/L	
16)	T	4-NT	26.251	316882161	19961.209	ug/L	
17)	T	3-NT	27.384	404148803	20078.821	ug/L	

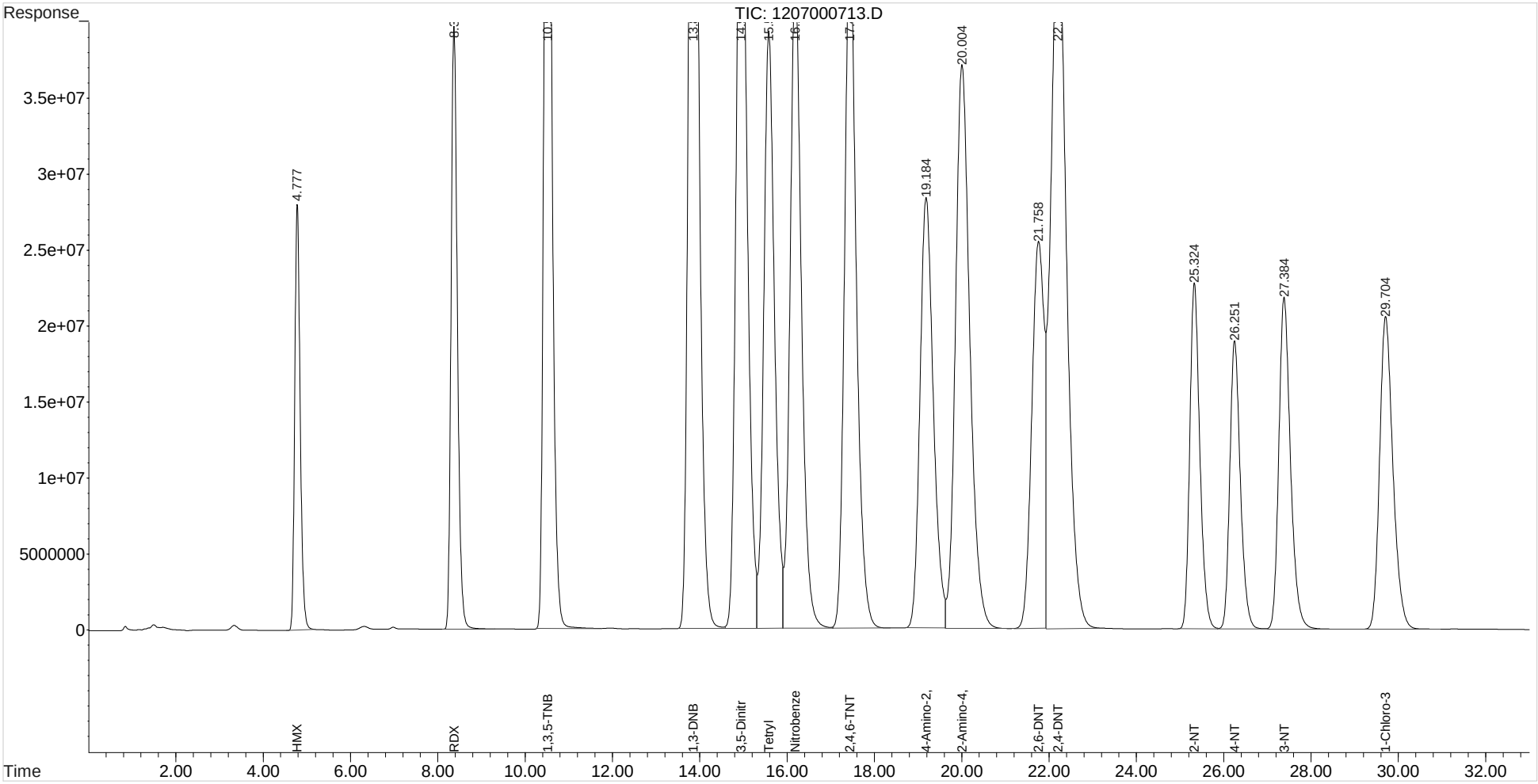
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:23:02 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

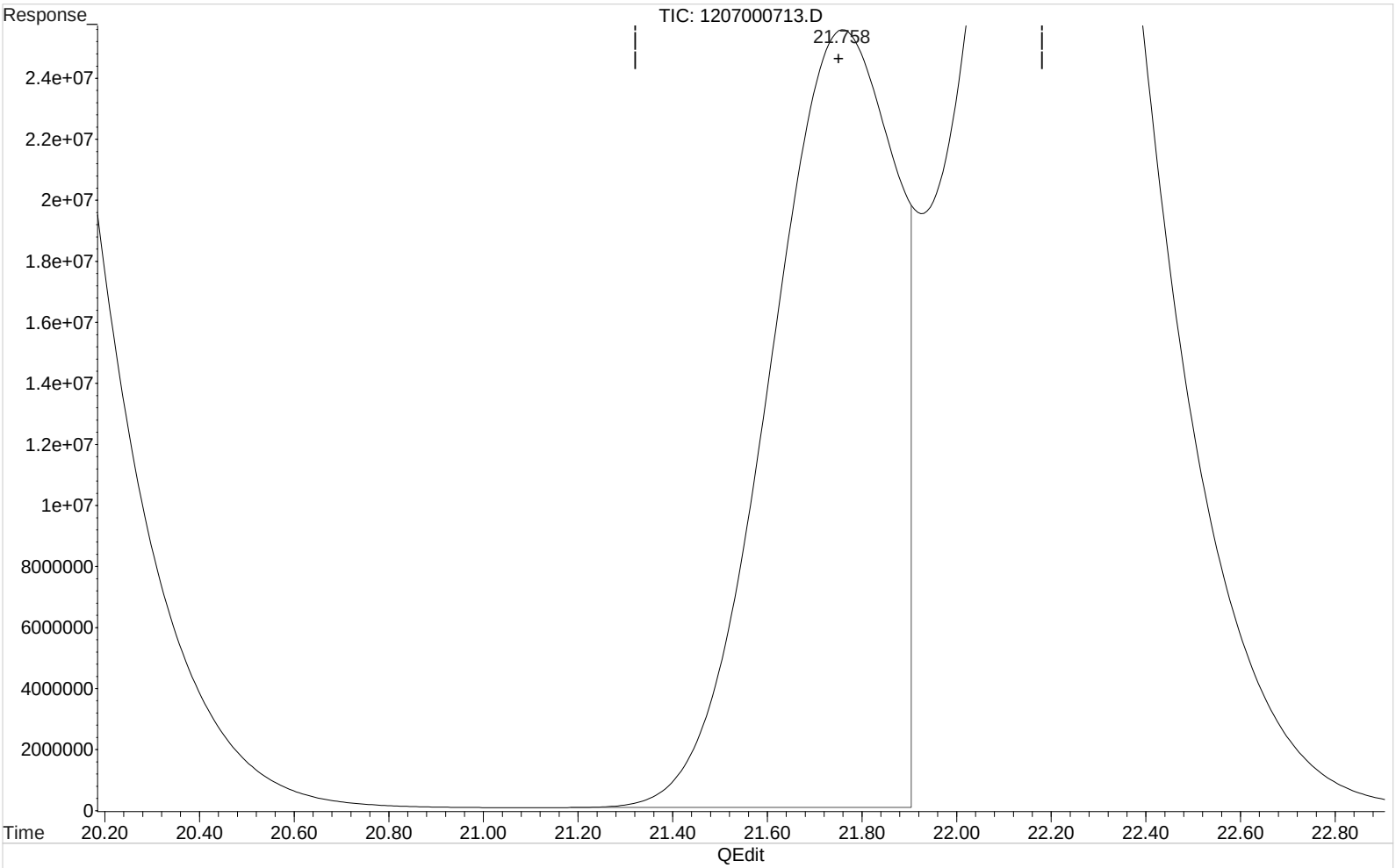


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:22:15 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.758min 19437.420 ug/L

response 474593969

Manual Integration:

Before

12/08/16

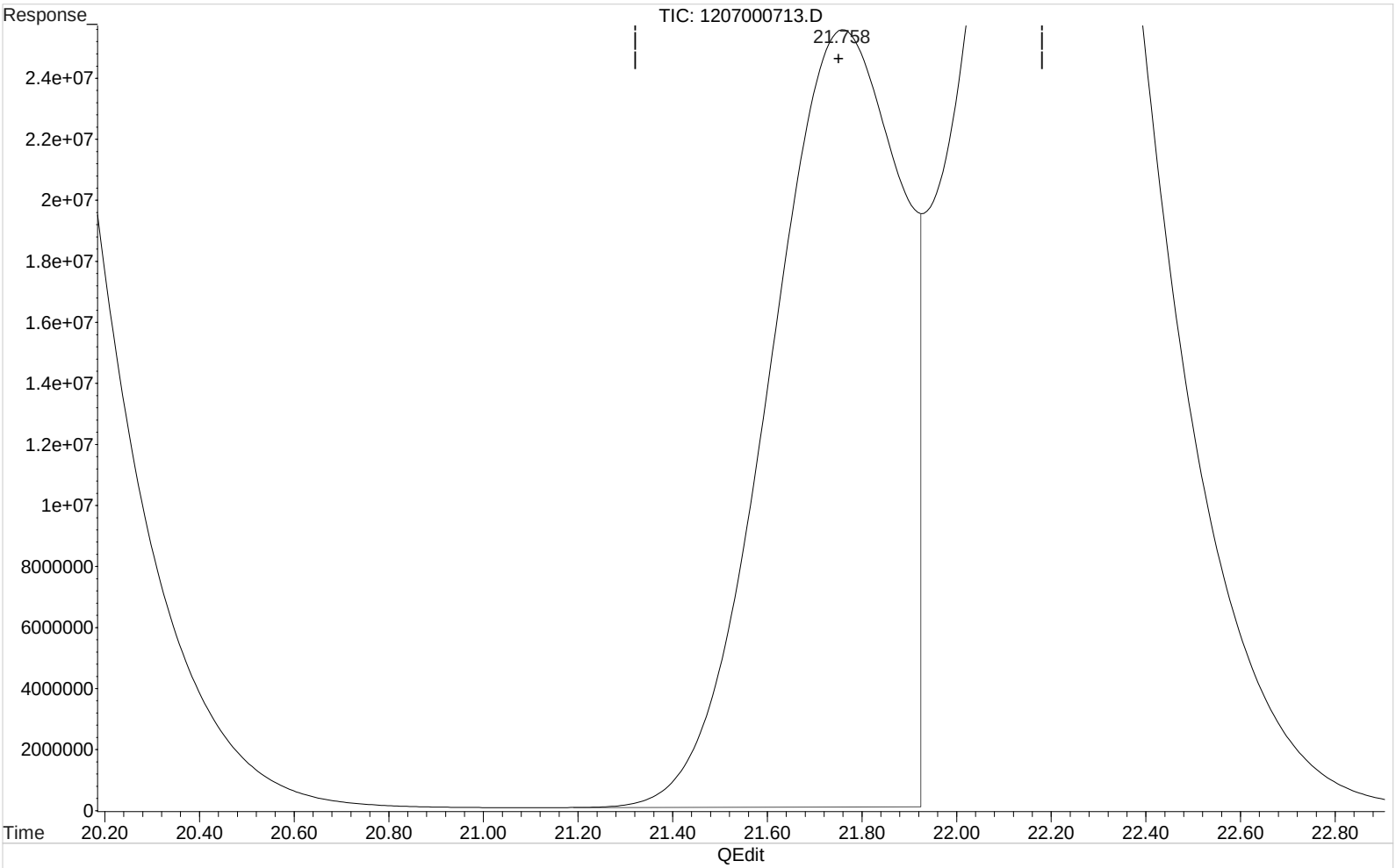
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:22:15 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.758min 20378.674 ug/L m

response 497576104

Manual Integration:

After

BLC

12/08/16

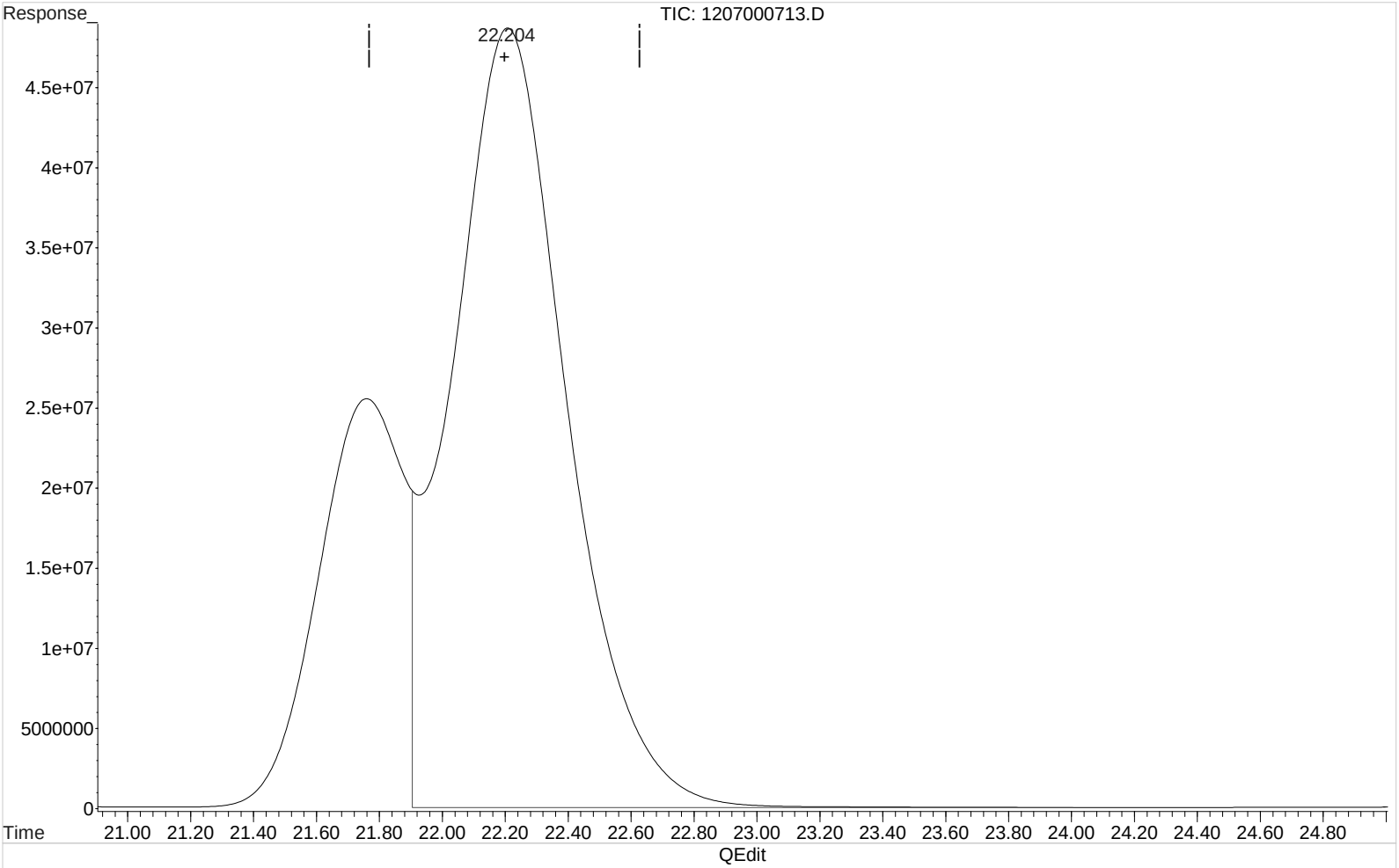
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:22:15 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.204min 20877.470 ug/L

response 1234754222

Manual Integration:

Before

12/08/16

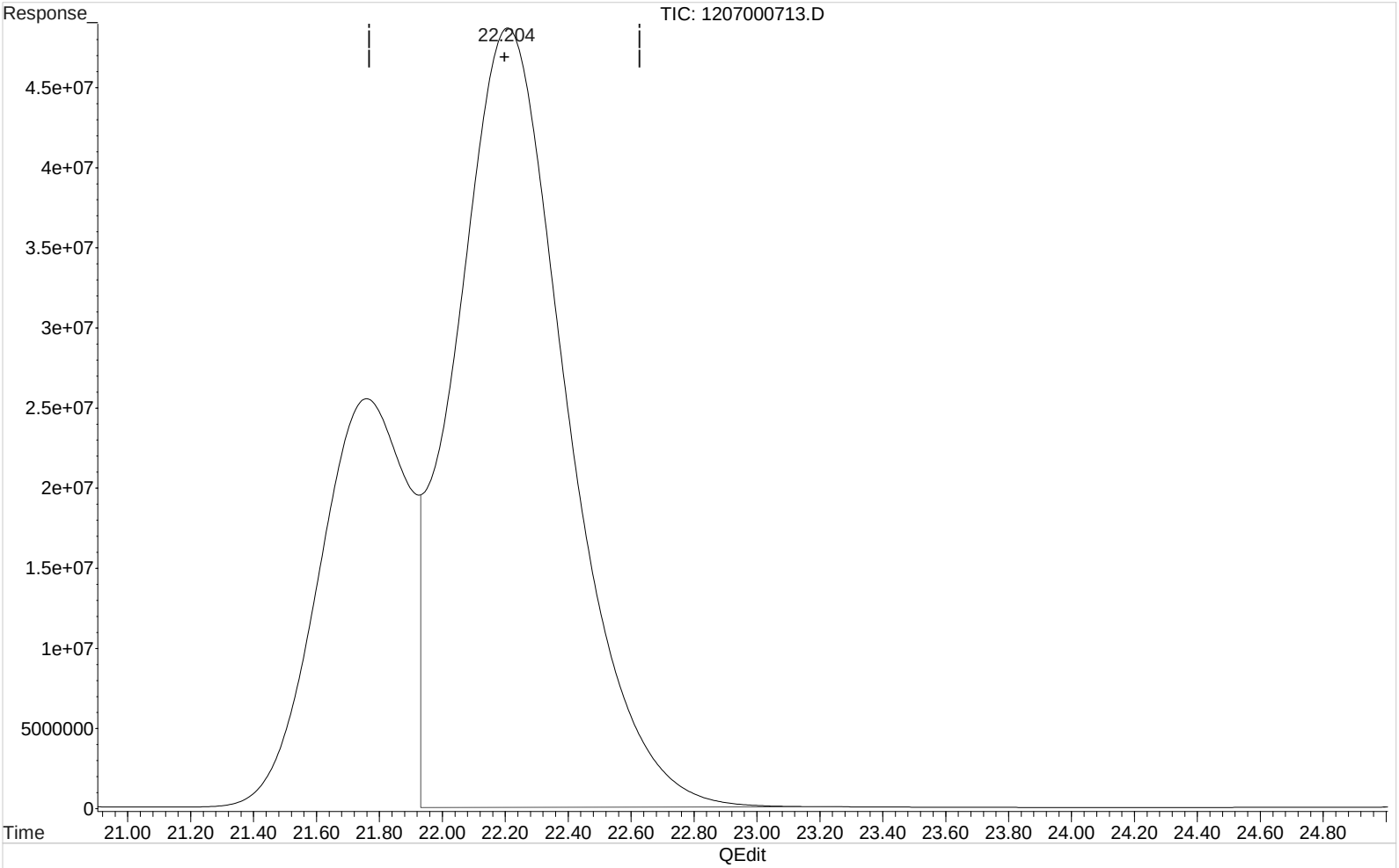
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:22:15 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.204min 20313.423 ug/L m

response 1201394842

Manual Integration:

After

BLC

12/08/16

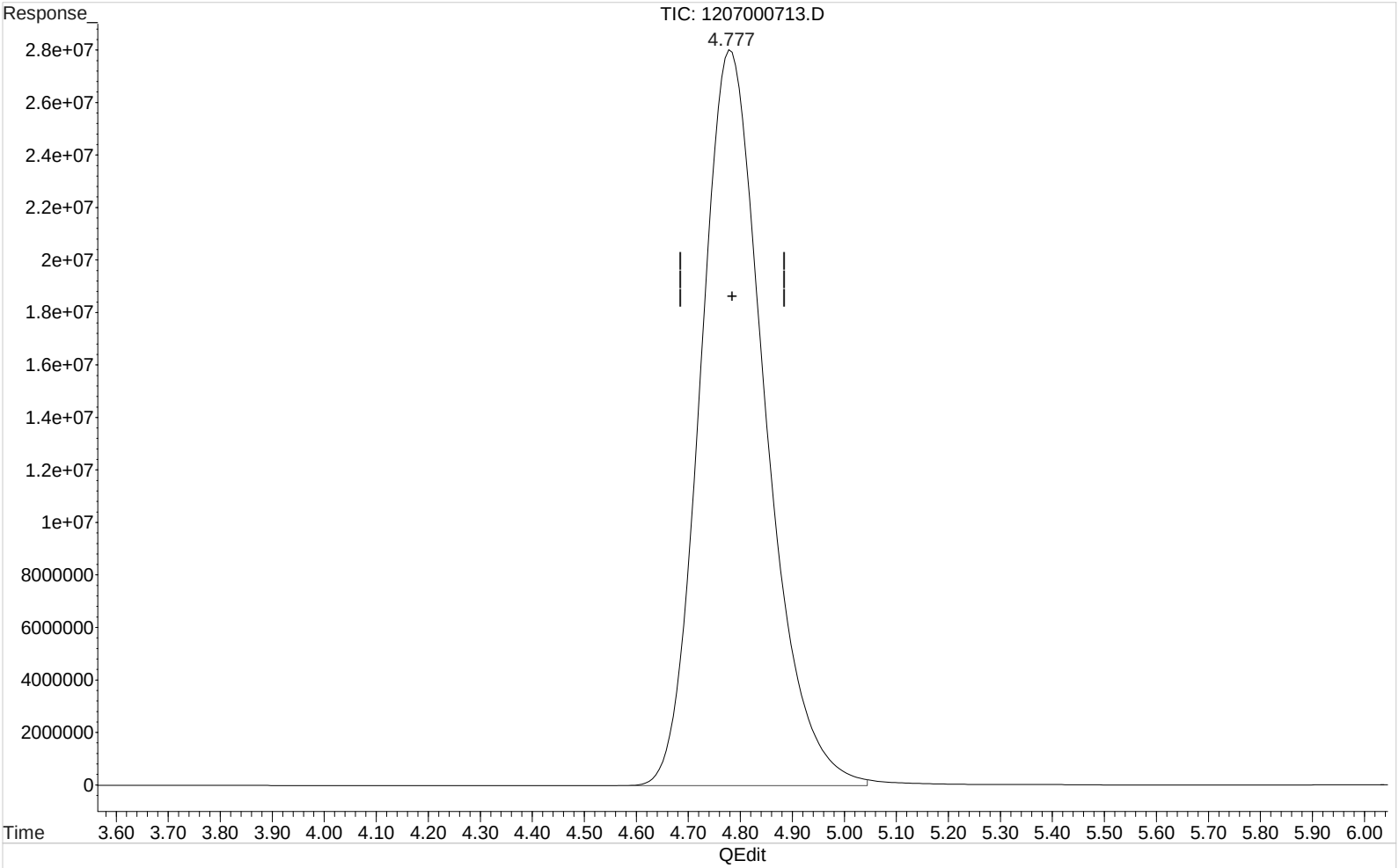
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:22:15 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(2) HMX (T)

4.777min 20269.811 ug/L

response 242453211

Manual Integration:

Before

12/08/16

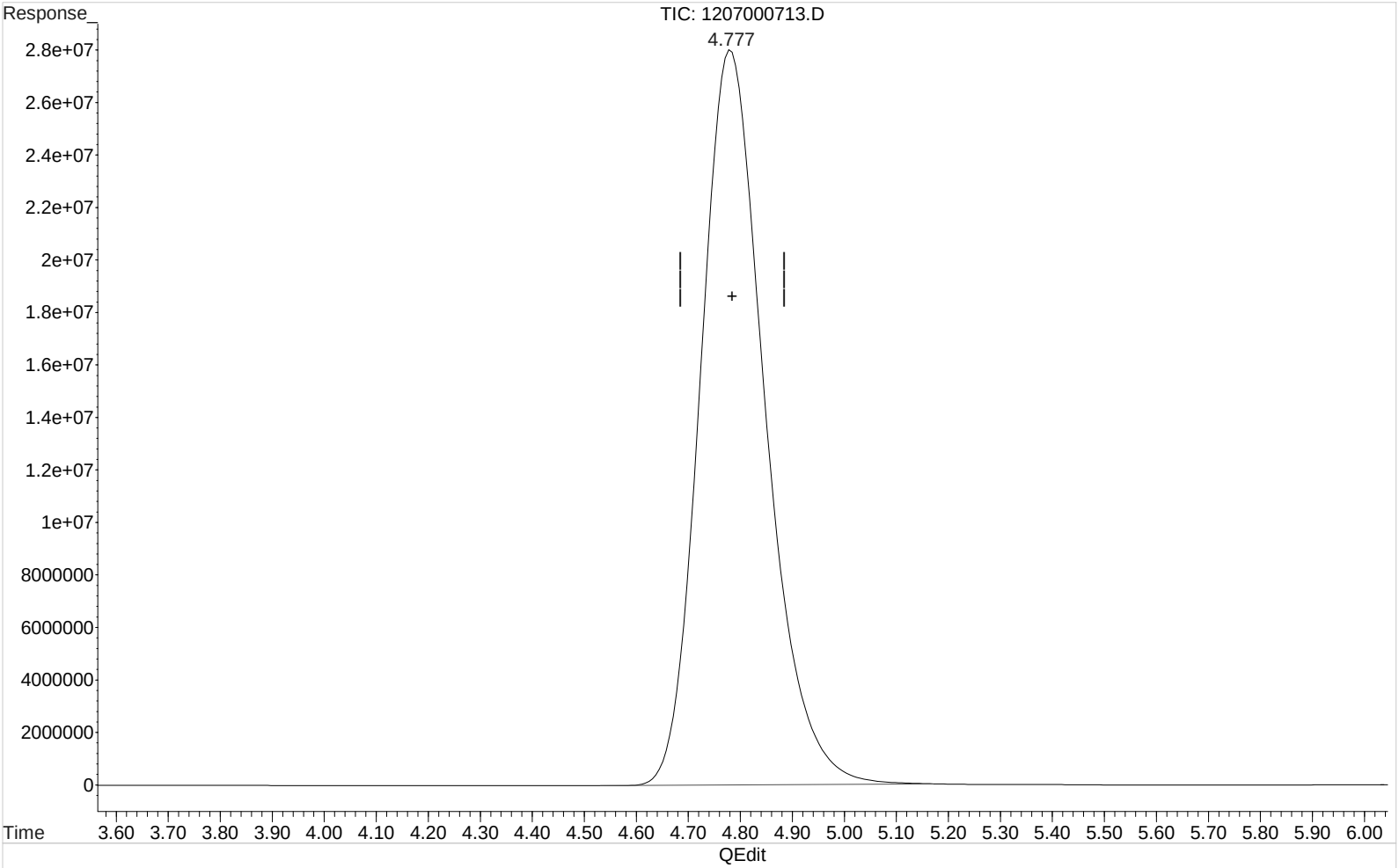
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:22:15 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(2) HMX (T)

4.777min 20229.108 ug/L m

response 241966350

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)

2/08/16

2/09/16

Quantitation Report (Not Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000715.D Vial: 13
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV ~~1000 PPB~~ 10,000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 13:49:43 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 13:47:31 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	29.691	178340313	8252.990	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	4.784	106984607	8933.998	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	8.371	176025842	8863.222	ug/L
5)	T	1,3,5-TNB	10.511	399499816	8944.120	ug/L
6)	T	1,3-DNB	13.851	535328425	8880.362	ug/L
7)	T	3,5-Dinitroaniline	14.958	428966341	8984.961	ug/L
8)	T	Tetryl	15.584	299167845	8957.215	ug/L
9)	T	Nitrobenzene	16.191	348449239	9023.839	ug/L
10)	T	2,4,6-TNT	17.438	377261904	9057.028	ug/L
11)	T	4-Amino-2,6-DNT	19.198	267038567	9047.901	ug/L
12)	T	2-Amino-4,6-DNT	20.017	374887145	8933.962	ug/L
13)	T	2,6-DNT	21.731	223573705	9139.357	ug/L
14)	T	2,4-DNT	22.184	532654960	8992.144	ug/L
15)	T	2-NT	25.311	161287053	8977.306	ug/L
16)	T	4-NT	26.231	141966427	8944.559	ug/L
17)	T	3-NT	27.364	176761245	8778.349	ug/L

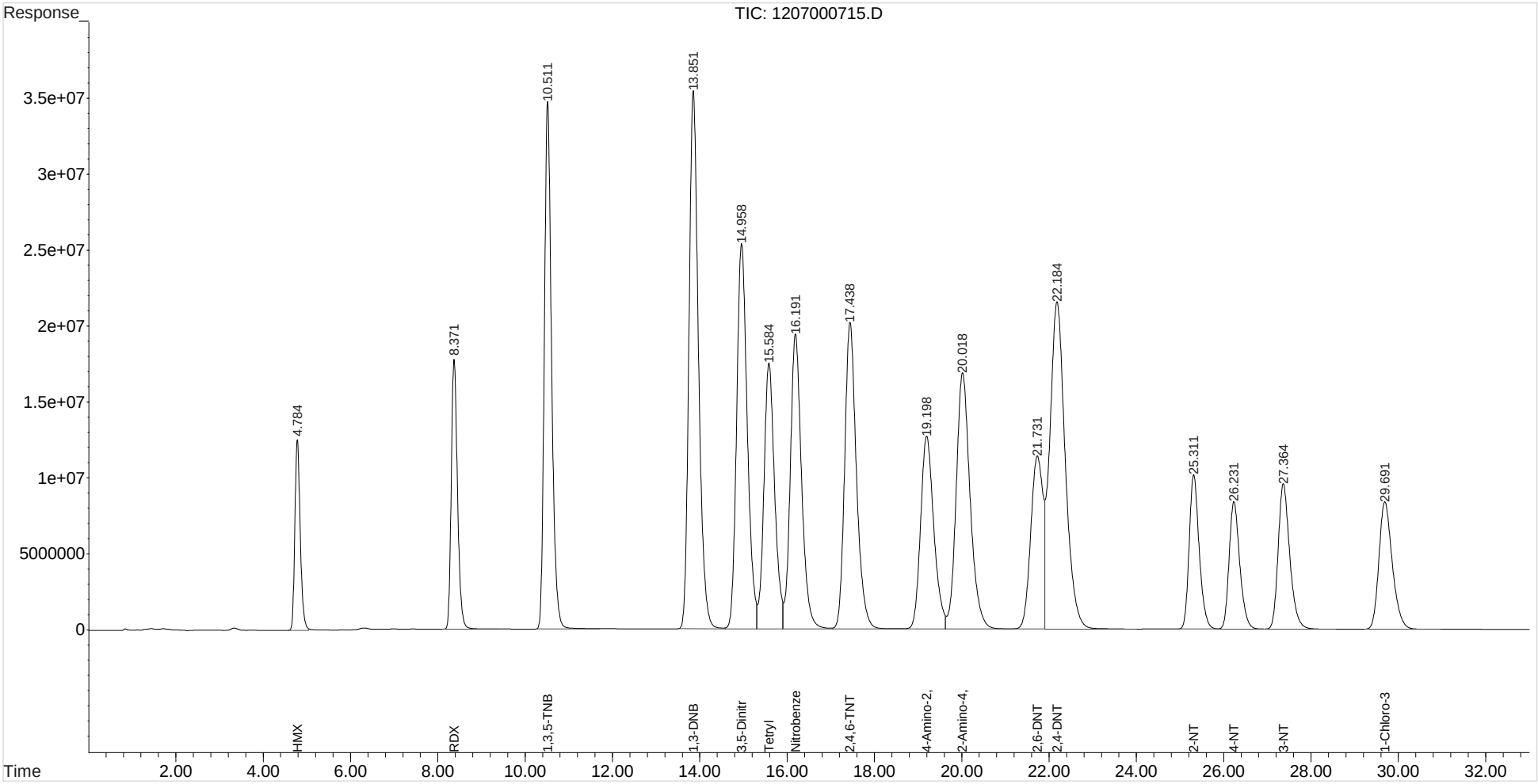
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000715.D Vial: 13
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 13:49:43 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 13:47:31 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



Preparation Information

Group ID:	KWG1701217	**Prep Method:**	METHOD	**Prep Date:**	02/14/17 13:35
Department:	Organic LC				

Lab Code	Client ID	Product	Matrix	Amt. Ext.	Final Vol.
K1701351-016	EB-020717	8330B NitramAroEsters	WATER	1050ml	4ml
K1701351-017	EB-020817	8330B NitramAroEsters	WATER	1030ml	4ml
K1701351-018	EB-020917	8330B NitramAroEsters	WATER	1040ml	4ml
KWG1701217-1	Lab Control Sample	8330B NitramAroEsters	WATER	1000ml	4ml
KWG1701217-2	Duplicate Lab Control Sampl	8330B NitramAroEsters	WATER	1000ml	4ml
KWG1701217-3	Method Blank	8330B NitramAroEsters	WATER	1000ml	4ml

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
K1701351-016	1586619	16-OLC-02-14C	20uL			(b) (6)
K1701351-017	1586620	16-OLC-02-14C	20uL			
K1701351-018	1586618	16-OLC-02-14C	20uL			
KWG1701217-1	1586621	16-OLC-02-14C	20uL	14-OLC-02-43M	8uL	
KWG1701217-2	1586622	16-OLC-02-14C	20uL	14-OLC-02-43M	8uL	
KWG1701217-3	1586623	16-OLC-02-14C	20uL			

Comments:

Started By: (b) (6) Assisted By:

Completed By: Assisted By:

Reviewed By: Date: 2/27/17 Storage:

Training: Yes / No (No) — Yes / No

Chain of Custody

Relinquished By: (b) (6) Date: 2·15·17

Received By: Date: 2·16·17

Extracts Examined: Yes / No

Preparation Information

Group ID: KWG1701217 **Prep Method:** Method **Prep Date:** 2.14.17
Department: Organic LC

#	Lab Code	Client ID	B#	√	Product	Matrix	Amt. Ext. ml	pH	Int. Vol.	Final Vol.	Surr. Added	Spike Added
1	K1701351-016	EB-020717	.02	/	8330B NitramAroEst	WATER	1050	N/A	N/A	4 ml	20 ul	N/A
2	K1701351-017	EB-020817	.02	/	8330B NitramAroEst	WATER	1030	↓	↓	↓	↓	↓
3	K1701351-018	EB-020917	.02	/	8330B NitramAroEst	WATER	1040	↓	↓	↓	↓	↓
4	KWG1701217-1	Lab Control Sample			8330B NitramAroEst	WATER	1000	↓	↓	↓	↓	8 ul
5	KWG1701217-2	Duplicate Lab Control Sample			8330B NitramAroEst	WATER	1000	↓	↓	↓	↓	↓
6	KWG1701217-3	Method Blank			8330B NitramAroEst	WATER	1000	↓	↓	↓	↓	N/A

Comments: prep # 281558

Surrogate ID: 16-DLC-02-14C, 1000ppm, xp 5.31.17, 20ul
Spike ID: 14-DLC02-43M, 1000ppm, xp 4.30.18, 8 ul
Witness: (b) (6) 02.14.17
Started By: (b) (6) Assisted By:
Completed By: Assisted By:

Additional Prep Information for Nitroaromatics and Nitramines by HPLC-SOP: SOC-8330B (rev. 5) in water

Service Request # K1701351 **Stealth Work Group #** KWG1701217

Lims Prep Run # 281558

Solvents/Reagents used:

ACN Lot #: 56207 **Acetone Lot #:** DP426

Hydrophobic DVB extraction cartridge Lot # 0000152839

Strata-X 33U 200mg/3mL cartridge Lot#: 5300-0219

Initial SPE Start (Time/Date/Initial): 1335 2.14.17 (b) (6)

Initial SPE Stop (Time/Date/Initial): 1400 2.14.17

Second SPE Start (Time/Date/Initial): 1425 2.15.17 (b) (6)

Second SPE Stop (Time/Date/Initial): 1515 2.15.1

Final Volume Start (Time/Date/Initial) 1520 2.15.

Final Volume Stop (Time/Date/Initial) 1535 2.15.1

Vial Storage: Top Shelf **Archived Extract Storage:** Nemophilist

Comments/Observations:

Bench Sheet Review Check List
❑ Hold Times Met (if no, Reason:)
❑ Stealth group and lims group concur
❑ Prep date, dept, method, product code correct in stealth
❑ Spike Information correct
❑ Weights/Volumes and units correct on raw and final bench sheets
❑ Sample IDs have been checked—Bottle numbers appended if required
❑ Names present for: Started by, Completed by, relinquished by, and witnessed by.
❑ Training has been circled
❑ Extract Storage recorded
❑ Additional Prep Sheet completely filled out (NA or line out Blanks)
❑ All clean-ups have been noted on additional prep sheet
❑ Signed service request with Form V, if applicable, has been attached

Preparation Information

Group ID:	KWG1701417	**Prep Method:**	METHOD	**Prep Date:**	02/21/17 17:05
Department:	Organic LC				

Lab Code	Client ID	Product	Matrix	Amt. Ext.	Final Vol.	Solids
K1701351-001	FD-020717	8330B Fire Range Nitr	SOIL	10.004g	8ml	
K1701351-002	FD-020817	8330B Fire Range Nitr	SOIL	10.015g	8ml	
K1701351-003	FTBL-SB-02-0-0.5-020817	8330B Fire Range Nitr	SOIL	10.078g	8ml	
K1701351-004	FTBL-SB-02-0.5-2-020817	8330B Fire Range Nitr	SOIL	10.291g	8ml	
K1701351-005	FTBL-SB-02-4-5.5-020817	8330B Fire Range Nitr	SOIL	10.120g	8ml	
K1701351-006	FTBL-SB-01D-0-0.5-020717	8330B Fire Range Nitr	SOIL	10.320g	8ml	
K1701351-007	FTBL-SB-01D-0.5-2-020717	8330B Fire Range Nitr	SOIL	10.212g	8ml	
K1701351-008	FTBL-SB-01D-4-6-020717	8330B Fire Range Nitr	SOIL	10.220g	8ml	
K1701351-009	FTBL-SB-01-0-0.5-020717	8330B Fire Range Nitr	SOIL	10.159g	8ml	
K1701351-010	FTBL-SB-01-0.5-2-020717	8330B Fire Range Nitr	SOIL	10.017g	8ml	
K1701351-011	FTBL-SB-01-4-6-020717	8330B Fire Range Nitr	SOIL	10.189g	8ml	
K1701351-012	FTBL-SB-03-0-0.5-020817	8330B Fire Range Nitr	SOIL	10.090g	8ml	
K1701351-013	FTBL-SB-03-6-8-020817	8330B Fire Range Nitr	SOIL	10.026g	8ml	
K1701351-015	FTBL-SB03-28-30-020917	8330B Fire Range Nitr	SOIL	10.048g	8ml	
KWG1701417-1	Duplicate	8330B Fire Range Nitr	SOIL	10.004g	8ml	
KWG1701417-2	Triplicate	8330B Fire Range Nitr	SOIL	10.047g	8ml	
KWG1701417-3	Matrix Spike	8330B Fire Range Nitr	SOIL	10.007g	8ml	
KWG1701417-4	Duplicate Matrix Spike	8330B Fire Range Nitr	SOIL	10.017g	8ml	
KWG1701417-5	Standard Reference Material	8330B Fire Range Nitr	SOIL	10.036g	8ml	
KWG1701417-6	Storage Blank	8330B Fire Range Nitr	SOIL	10.317g	8ml	
KWG1701417-7	Storage Blank	8330B Fire Range Nitr	SOIL	10.084g	8ml	
KWG1701417-8	Lab Control Sample	8330B Fire Range Nitr	SOIL	10.000g	8ml	
KWG1701417-9	Method Blank	8330B Fire Range Nitr	SOIL	10.000g	8ml	

Lab Code	Parent Lab Code	Comments
KWG1701417-1	K1701351-001	KQ1701866-01
KWG1701417-2	K1701351-001	KQ1701866-02
KWG1701417-3	K1701351-001	KQ1701866-03
KWG1701417-4	K1701351-001	KQ1701866-04
KWG1701417-5		KQ1701866-05
KWG1701417-6		KQ1701866-06
KWG1701417-7		KQ1701866-07

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
K1701351-001	1587763	16-OLC-02-14C	40uL			(b) (6)
K1701351-002	1587764	16-OLC-02-14C	40uL			

Comments:

Started By: (b) (6) Assisted By:

Completed By: (b) (6) Assisted By:

Reviewed By: Date: 3/28/17 Storage:

Training: Yes / No; Yes / No

Chain of Custody

Relinquished By: (b) (6) Date: 3-1-2017

Received By: Date: 3-1-2017

Extracts Examined: Yes / No

Group ID:	KWG1701417	**Prep Method:**	METHOD	**Prep Date:**	02/21/17 17:05
Department:	Organic LC				

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
K1701351-003	1587765	16-OLC-02-14C	40uL			(b) (6)
K1701351-004	1587766	16-OLC-02-14C	40uL			
K1701351-005	1587767	16-OLC-02-14C	40uL			
K1701351-006	1587768	16-OLC-02-14C	40uL			
K1701351-007	1587769	16-OLC-02-14C	40uL			
K1701351-008	1587770	16-OLC-02-14C	40uL			
K1701351-009	1587771	16-OLC-02-14C	40uL			
K1701351-010	1587772	16-OLC-02-14C	40uL			
K1701351-011	1587773	16-OLC-02-14C	40uL			
K1701351-012	1587774	16-OLC-02-14C	40uL			
K1701351-013	1587775	16-OLC-02-14C	40uL			
K1701351-015	1587776	16-OLC-02-14C	40uL			
KWG1701417-1	1587777	16-OLC-02-14C	40uL			
KWG1701417-2	1587778	16-OLC-02-14C	40uL			
KWG1701417-3	1587779	16-OLC-02-14C	40uL	14-OLC-02-43M	20uL	
KWG1701417-4	1587780	16-OLC-02-14C	40uL	14-OLC-02-43M	20uL	
KWG1701417-5	1587781	16-OLC-02-14C	40uL			
KWG1701417-6	1587782	16-OLC-02-14C	40uL			
KWG1701417-7	1587783	16-OLC-02-14C	40uL			
KWG1701417-8	1587784	16-OLC-02-14C	40uL	14-OLC-02-43M	20uL	
KWG1701417-9	1587785	16-OLC-02-14C	40uL			

Comments:

Started By: (b) (6)

Completed By:

Reviewed By: (b) (6)

Assisted By:

Assisted By:

Date: 3/6/17

Storage:

Training

Yes No

Yes No

Chain of Custody

Relinquished By: (b) (6)

Date: 3.1.2017

Received By:

Date: 3.1.2017

Extracts Examined

Yes No

Preparation Information

Group ID:	KWG1701417	**Prep Method:**	**Prep Date:**
Department:	Organic LC	EPA 3535A	02/21/17

#	Lab Code	Client ID	B#	√	Product	Matrix	Amt. Ext. g	pH	Int. Vol.	Final Vol. mL	Surr. Added µL	Spike Added µL
1	K1701351-001	FD-020717			8330B Fire Range Nitr	SOIL	see pre-prep	n/a	n/a	8	40	
2	K1701351-002	FD-020817			8330B Fire Range Nitr	SOIL						
3	K1701351-003	FTBL-SB-02-0-0.5-020817			8330B Fire Range Nitr	SOIL						
4	K1701351-004	FTBL-SB-02-0.5-2-020817			8330B Fire Range Nitr	SOIL						
5	K1701351-005	FTBL-SB-02-4-5.5-020817			8330B Fire Range Nitr	SOIL						
6	K1701351-006	FTBL-SB-01D-0-0.5-020717			8330B Fire Range Nitr	SOIL						
7	K1701351-007	FTBL-SB-01D-0.5-2-020717			8330B Fire Range Nitr	SOIL						
8	K1701351-008	FTBL-SB-01D-4-6-020717			8330B Fire Range Nitr	SOIL						
9	K1701351-009	FTBL-SB-01-0-0.5-020717			8330B Fire Range Nitr	SOIL						
10	K1701351-010	FTBL-SB-01-0.5-2-020717			8330B Fire Range Nitr	SOIL						
11	K1701351-011	FTBL-SB-01-4-6-020717			8330B Fire Range Nitr	SOIL						
12	K1701351-012	FTBL-SB-03-0-0.5-020817			8330B Fire Range Nitr	SOIL						
13	K1701351-013	FTBL-SB-03-6-8-020817			8330B Fire Range Nitr	SOIL						
14	K1701351-015	FTBL-SB03-28-30-020917			8330B Fire Range Nitr	SOIL						
15	KWG1701417-1	Duplicate K1701351-001			8330B Fire Range Nitr	SOIL						
16	KWG1701417-2	Triplicate K1701351-001			8330B Fire Range Nitr	SOIL						
17	KWG1701417-3	Matrix Spike K1701351-001			8330B Fire Range Nitr	SOIL						20
18	KWG1701417-4	Duplicate Matrix Spike K1701351-001			8330B Fire Range Nitr	SOIL						20

Comments:

Surrogate ID: 16-OLC-02-14C 1000 ppm XP 5-31-17

Spike ID: 14-OLC-02-43M 1000 ppm XP 04-31-18

Witness: (b) (6) 2/21/17

Started By: (b) (6)

Assisted By: (b) (6)

Completed By: [redacted]

Assisted By:

Group ID:	KWG1701417	**Prep Method:**	**Prep Date:**
Department:	Organic LC	EPA 3535A	02/21/17

#	Lab Code	Client ID	B#	√	Product	Matrix	Amt. Ext. g	pH	Int. Vol.	Final Vol. mL	Surr. Added ~~mL~~	Spike Added ~~mL~~
19	KWG1701417-5	Standard Reference Material	—		8330B Fire Range Nitr	SOIL	see pre-prep	N/a	N/a	8	40	—
20	KWG1701417-6	Storage Blank GB1	—		8330B Fire Range Nitr	SOIL	↓	↓	↓	↓	↓	—
21	KWG1701417-7	Storage Blank GB2	—		8330B Fire Range Nitr	SOIL	↓	↓	↓	↓	↓	—
22	KWG1701417-8	Lab Control Sample	—		8330B Fire Range Nitr	SOIL	↓	↓	↓	↓	↓	20
23	KWG1701417-9	Method Blank	—		8330B Fire Range Nitr	SOIL	↓	↓	↓	↓	↓	—

Comments:

Surrogate ID: 16-OLC-02-14C 1000 ppm xp 05.31.17

Spike ID: 14-OLC-02-43M 1000 ppm xp 04.31.18

Witness: (b) (6) /17

Started By: (b) (6) Assisted By:

Completed By: Assisted By:

Additional Prep Information For Nitroaromatics and Nitramines by HPLC – SOP: SOC-8330B (rev. 4) in Soil

Service Request # K1701351 **Stealth Work Group #** KWG1701417

Lims Run # 282053

Solvents/Reagents used:

0.1% Glacial Acetic Acid/ACN Lot# 17-OLC-01-03L

ACN Lot# 56207 **Reagent Water Lot#** 56160

Balance ID#: -49, -50

Sonic Bath Start (Time/Date/Initial): 17:05 02/21/17 [redacted]

Sonic Bath Stop (Time/Date/Initial): 12:30 02/22/17 [redacted]

Strata-X 33U 200mg/3mL cartridge Lot# S300-0219

Extraction Start (Time/Date/Initial): 1040 3.1.17 [redacted]

Extraction Stop (Time/Date/Initial): 1430 3/1/17 [redacted]

Final Volume Start (Time/Date/Initial): 1430 3/1/17 [redacted]

Final Volume Stop (Time/Date/Initial): 1525 3/1/17 [redacted]

Completion (Time/Date/Initial) 1525 3/1/17 [redacted] **Vial Storage:** TOP SHELF

Archived Extract Storage: LIME JELLO

Comments/Observations:

Bench Sheet Review Check List
❑ Hold Times Met (if no, Reason:)
❑ Stealth group and lims group concur
❑ Prep date, dept, method, product code correct in stealth
❑ Spike Information correct
❑ Weights/Volumes and units correct on raw and final bench sheets
❑ Sample IDs have been checked—Bottle numbers appended if required
❑ Names present for: Started by, Completed by, relinquished by, and witnessed by.
❑ Training has been circled
❑ Extract Storage recorded
❑ Additional Prep Sheet completely filled out (NA or line out Blanks)
❑ All clean-ups have been noted on additional prep sheet
❑ Signed service request with Form V, if applicable, has been attached

Pre-Prep Information Benchsheet

Prep Run #: 282053 **Prep Method:** **Team:** **Prep Due Date:** Feb-21-2017

#	Lab Code	Bottle	Test Name	Weight	Sample Comments	Test Comments
1	K1701351-001	.03	Fire Range Nitr	10.004g		PrepComments:APOSEY K-BALANCE-49
2	K1701351-002	.03	Fire Range Nitr	10.015g		PrepComments:DMadden K-Balance-50
3	K1701351-003	.03	Fire Range Nitr	10.078g		PrepComments:DMadden K-Balance-50
4	K1701351-004	.04	Fire Range Nitr	10.291g		PrepComments:DMadden K-Balance-50
5	K1701351-005	.04	Fire Range Nitr	10.120g		PrepComments:DMadden K-Balance-50
6	K1701351-006	.04	Fire Range Nitr	10.320g		PrepComments:DMadden K-Balance-50
7	K1701351-007	.04	Fire Range Nitr	10.212g		PrepComments:DMadden K-Balance-50
8	K1701351-008	.04	Fire Range Nitr	10.220g		PrepComments:DMadden K-Balance-50
9	K1701351-009	.04	Fire Range Nitr	10.159g		PrepComments:DMadden K-Balance-50
10	K1701351-010	.04	Fire Range Nitr	10.017g		PrepComments:DMadden K-Balance-50
11	K1701351-011	.04	Fire Range Nitr	10.189g		PrepComments:DMadden K-Balance-50
12	K1701351-012	.05	Fire Range Nitr	10.090g		PrepComments:DMadden K-Balance-50
13	K1701351-013	.05	Fire Range Nitr	10.026g		PrepComments:DMadden K-Balance-50
14	K1701351-015	.07	Fire Range Nitr	10.048g		PrepComments:DMadden K-Balance-50
15	K1701351-001 DUP KQ1701866-01	.03	Fire Range Nitr	10.004g		PrepComments:APOSEY K-BALANCE-49
16	K1701351-001 TRP KQ1701866-02	.03	Fire Range Nitr	10.047g		PrepComments:APOSEY K-BALANCE-49
17	K1701351-001 MS KQ1701866-03	.03	Fire Range Nitr	10.007g		PrepComments:APOSEY K-BALANCE-49
18	K1701351-001 DMS KQ1701866-04	.03	Fire Range Nitr	10.017g		PrepComments:APOSEY K-BALANCE-49
19	KQ1701866-05 SRM KQ1701866-05	.01	Fire Range Nitr	10.036	17-OLC-01-13C xp 2.28.17	
20	KQ1701866-06 MB KQ1701866-06	.01	Fire Range Nitr	10.317	Samples 1-10	
21	KQ1701866-07 MB KQ1701866-07	.02	Fire Range Nitr	10.084	11-13, 15	

*% Solids is a calculated field meant solely as a reference value for verifying the presence of Total Solids in calculations

015113 Page 3479 of 4534 11/01/2018

Date: 2/9/2017 XC-254 YC-210

ALS Environmental

ICAL Date: 2/9/2017

By: AE

Injection Log

ICAL ID: CAL 15185 (210) CAL 15192 (254)

Stealth ID: N/A **LC8 - Agilent 1260** **LIMS ID:** N/A

2nd Review:

Column: Ultra Aromax SN: 150411353J

Mobile Phases A: MeOH Lot#: 56189 **B:** ACN Lot#: 56207 **C:** H_2O Lot#: 56160 NA

		File Name	Method	Dilution	R	Comments
1	PRIMER	0209000101	8330BXC.M	NA		
2	PRIMER	0209000102	8330BXC.M	NA	X	
3	IB	0209000103	8330BXC.M	NA	X	
4	17-OLC-01-09J 20 PPB	0209000104	8330BXC.M	NA	X	
5	17-OLC-01-09I 50 PPB	0209000105	8330BXC.M	NA	X	
6	17-OLC-01-09H 100 PPB	0209000106	8330BXC.M	NA	X	
7	17-OLC-01-09G 200 PPB	0209000107	8330BXC.M	NA	X	
8	17-OLC-01-09F 500 PPB	0209000108	8330BXC.M	NA	X	
9	17-OLC-01-09E 1000 PPB	0209000109	8330BXC.M	NA	X	
10	17-OLC-01-09D 2000 PPB	0209000110	8330BXC.M	NA	X	
11	17-OLC-01-09C 5000 PPB	0209000111	8330BXC.M	NA	X	
12	17-OLC-01-09B 10000 PPB	0209000112	8330BXC.M	NA	X	
13	17-OLC-01-09A 20000 PPB	0209000113	8330BXC.M	NA	X	
14	IB	0209000114	8330BXC.M	NA	X	
15	17-OLC-01-09K 1000 PPB ICV	0209000115	8330BXC.M	NA	X	
16	IB	0209000116	8330BXC.M	NA	X	

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000103.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 15:23:38 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:39:27 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
	Target Compounds				
1) T	Nitroglycerin	0.000	0	N.D.	ug/L
2) T	PETN	0.000	0	N.D.	ug/L d

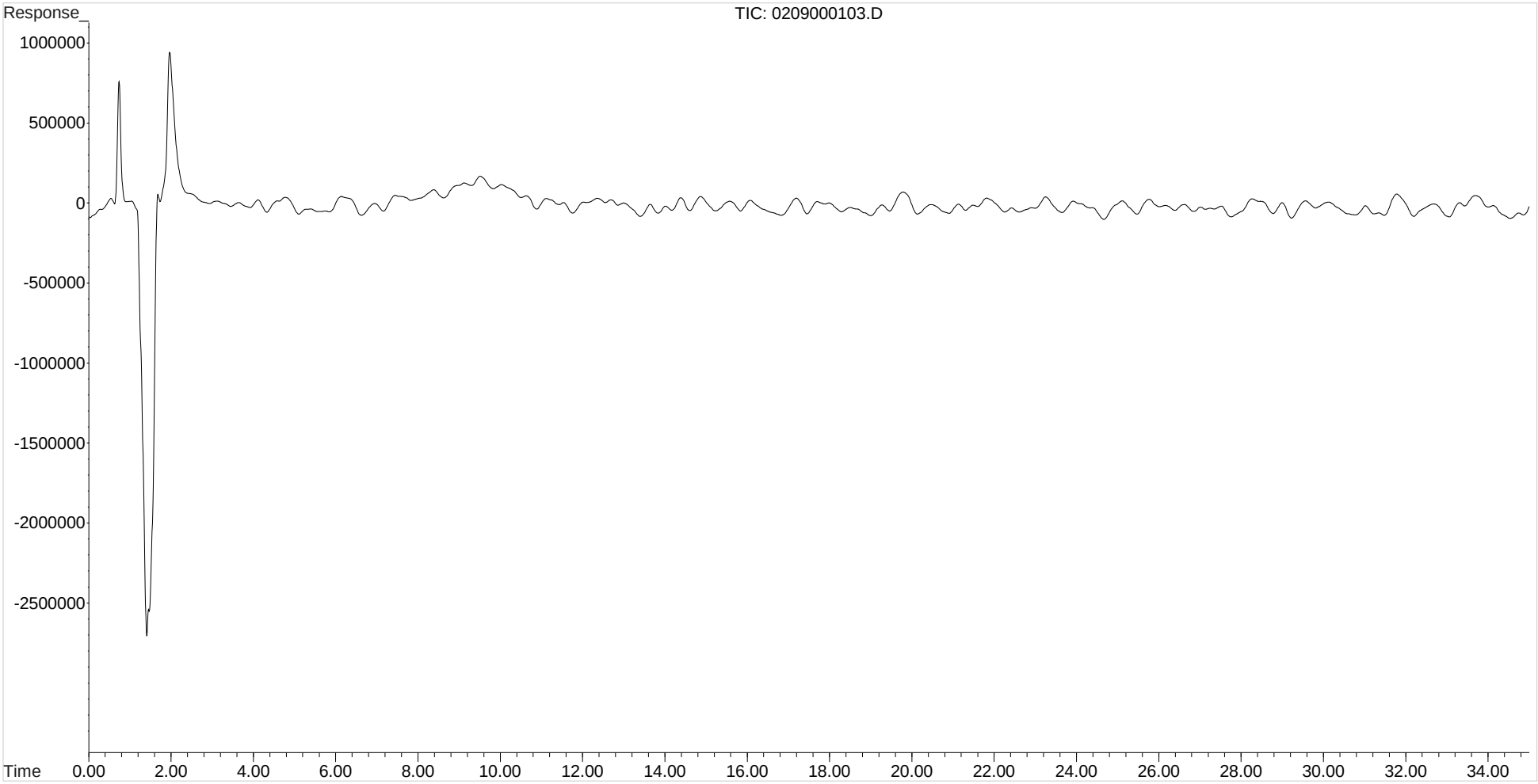
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000103.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 15:23:38 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:39:27 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:33:41 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	8.147	652772	9.384 ug/L m
Target Compounds				
1) T	Nitroglycerin	3.793	1642816	78.604 ug/L m
2) T	PETN	6.980	1691788	20.719 ug/L m

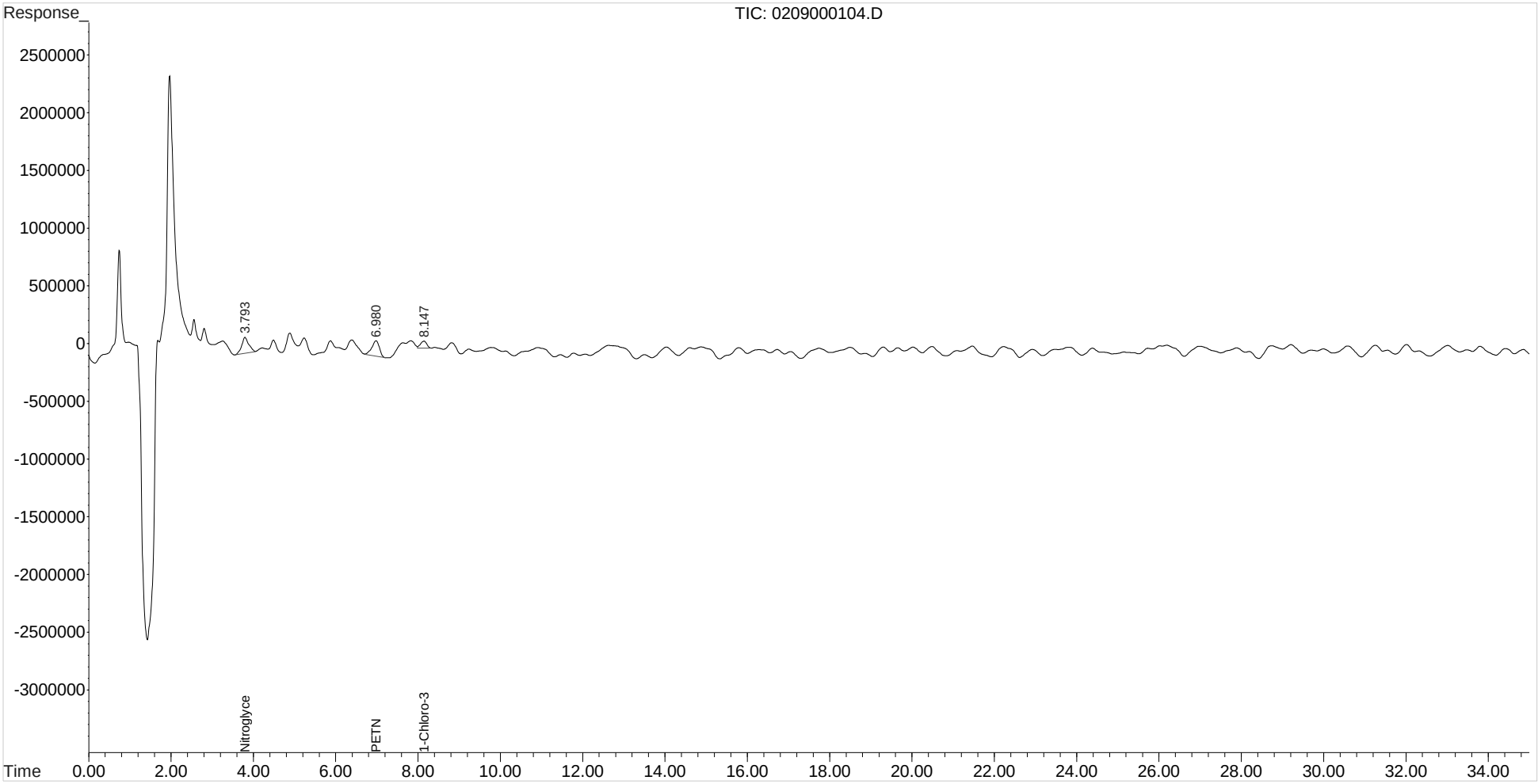
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:33:41 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

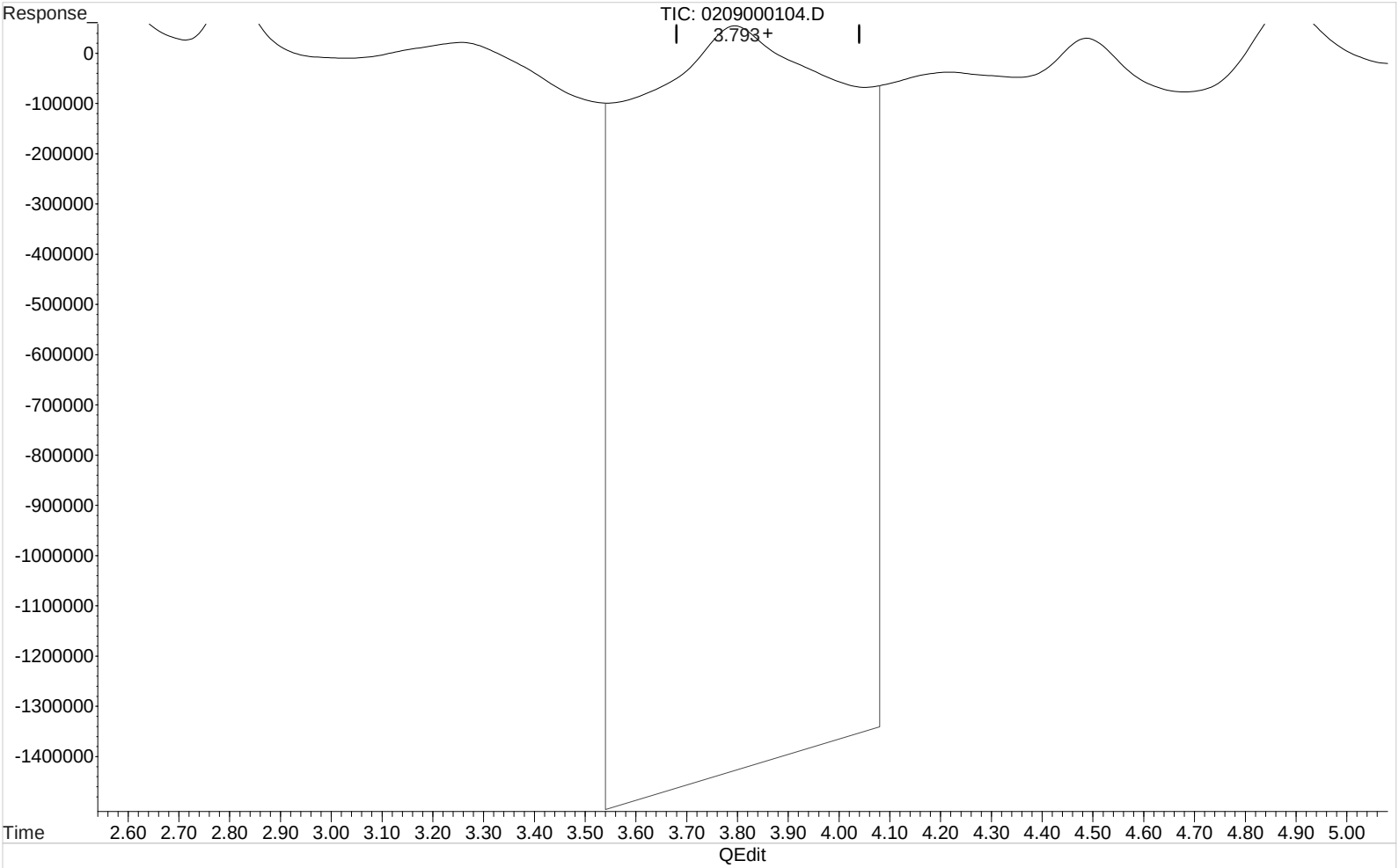


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:44 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.793min 2157.292 ug/L

response 45086986

Manual Integration:

Before

02/10/17

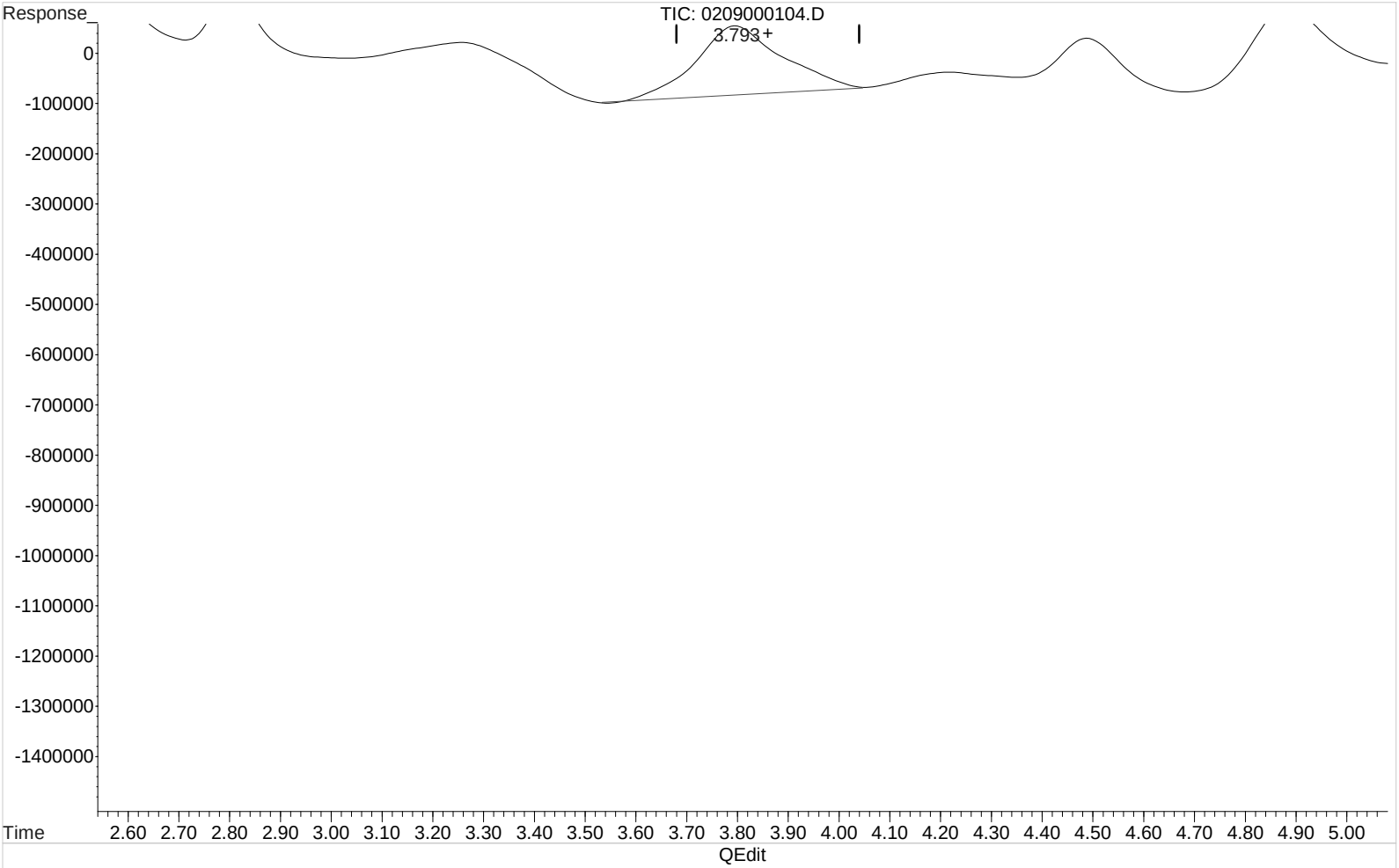
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:44 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.793min 78.604 ug/L m

response 1642816

Manual Integration:

After

BLC

02/10/17

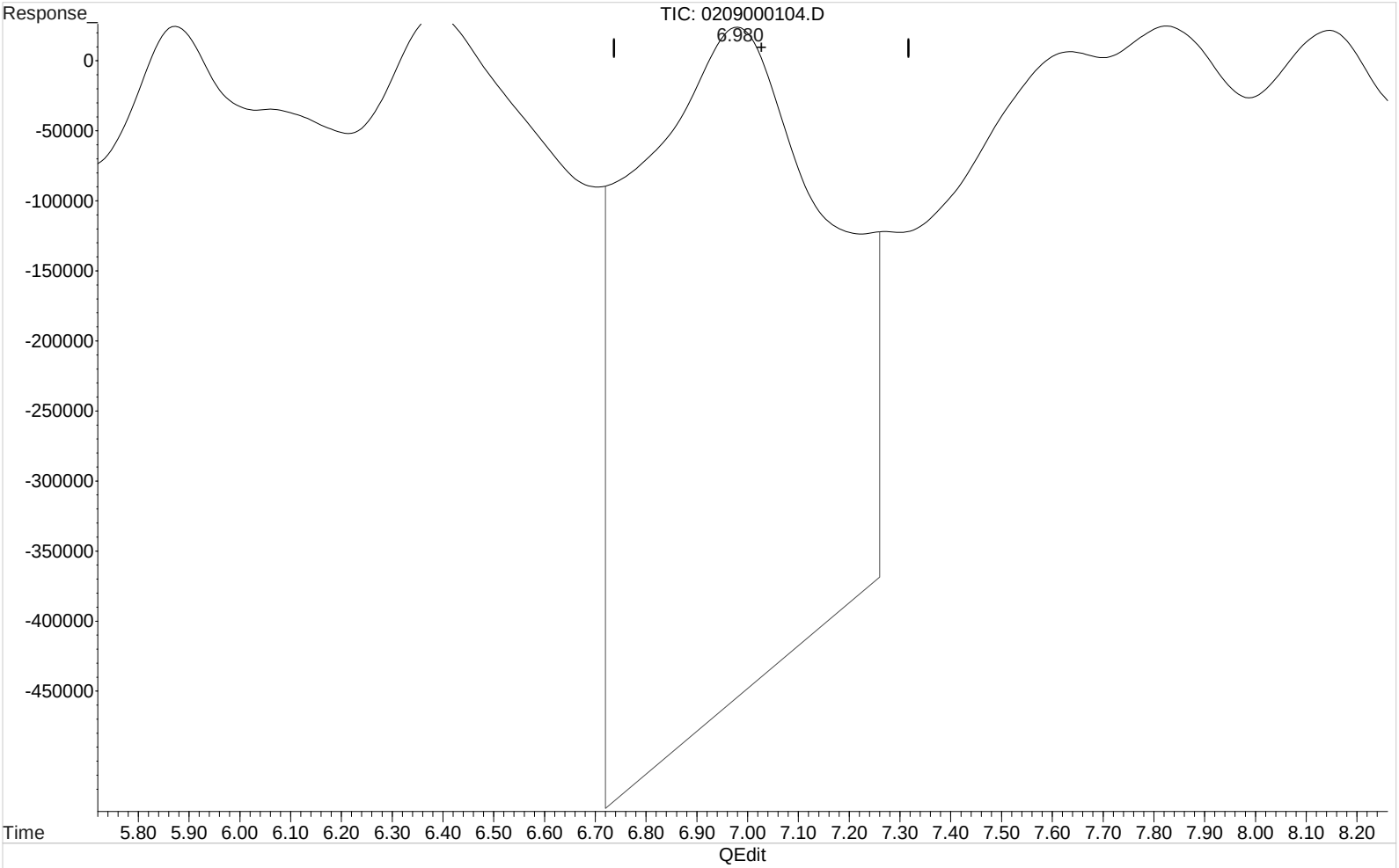
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:44 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.980min 156.268 ug/L

response 12760096

Manual Integration:

Before

02/10/17

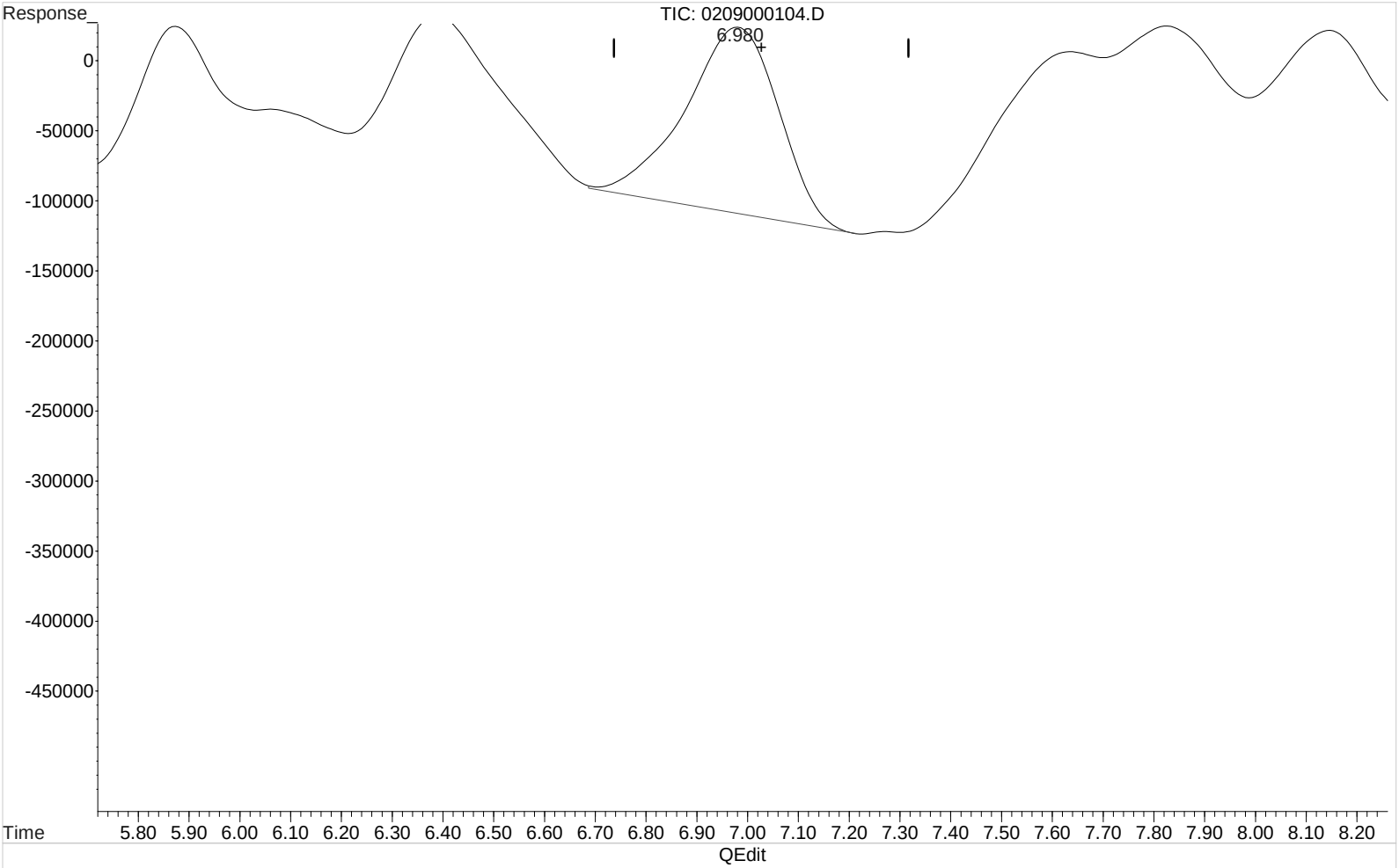
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:44 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.980min 20.719 ug/L m

response 1691788

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

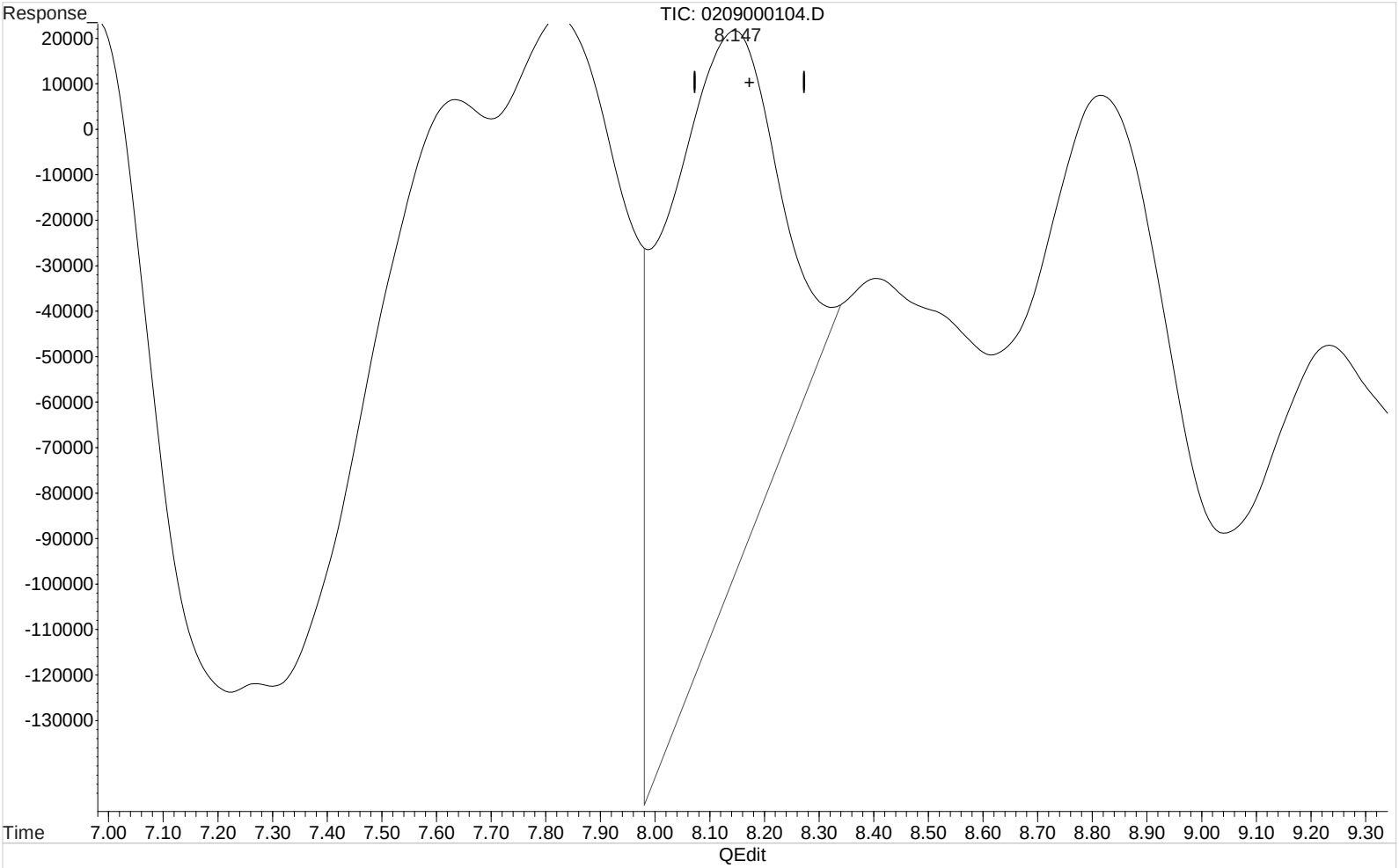
020917_Short_8330B@210.M Fri Feb 10 10:33:26 2017 Page: 1

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:44 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

8.147min 26.209 ug/L

response 1823212

Manual Integration:

Before

02/10/17

(+) = Expected Retention Time

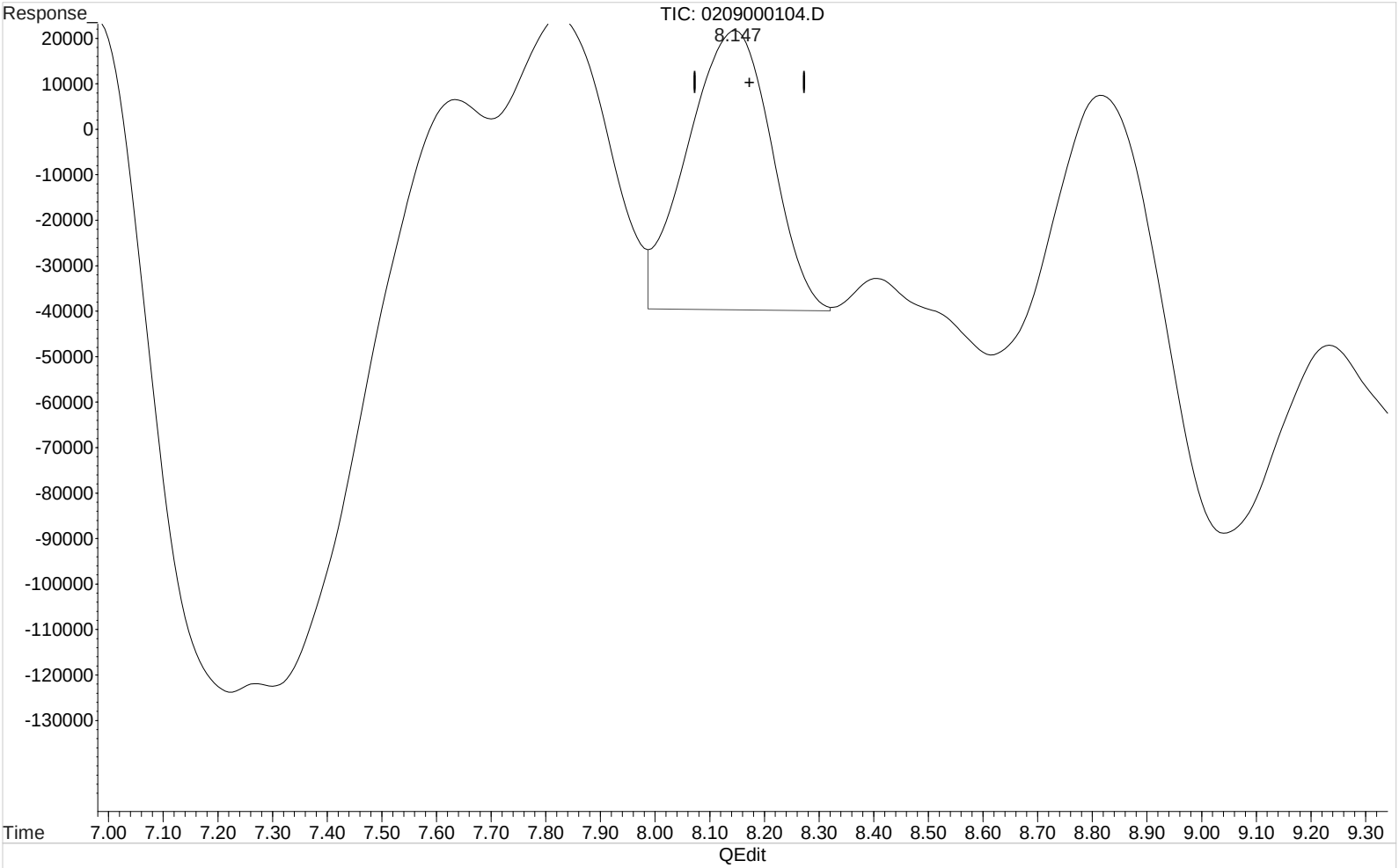
020917_Short_8330B@210.M Fri Feb 10 10:33:28 2017 Page: 1

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:44 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

8.147min 9.384 ug/L m

response 652772

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	8.133	3061814	43.366 ug/L m
Target Compounds				
1) T	Nitroglycerin	3.793	1022712	48.804 ug/L m
2) T	PETN	6.993	3642903	44.021 ug/L m

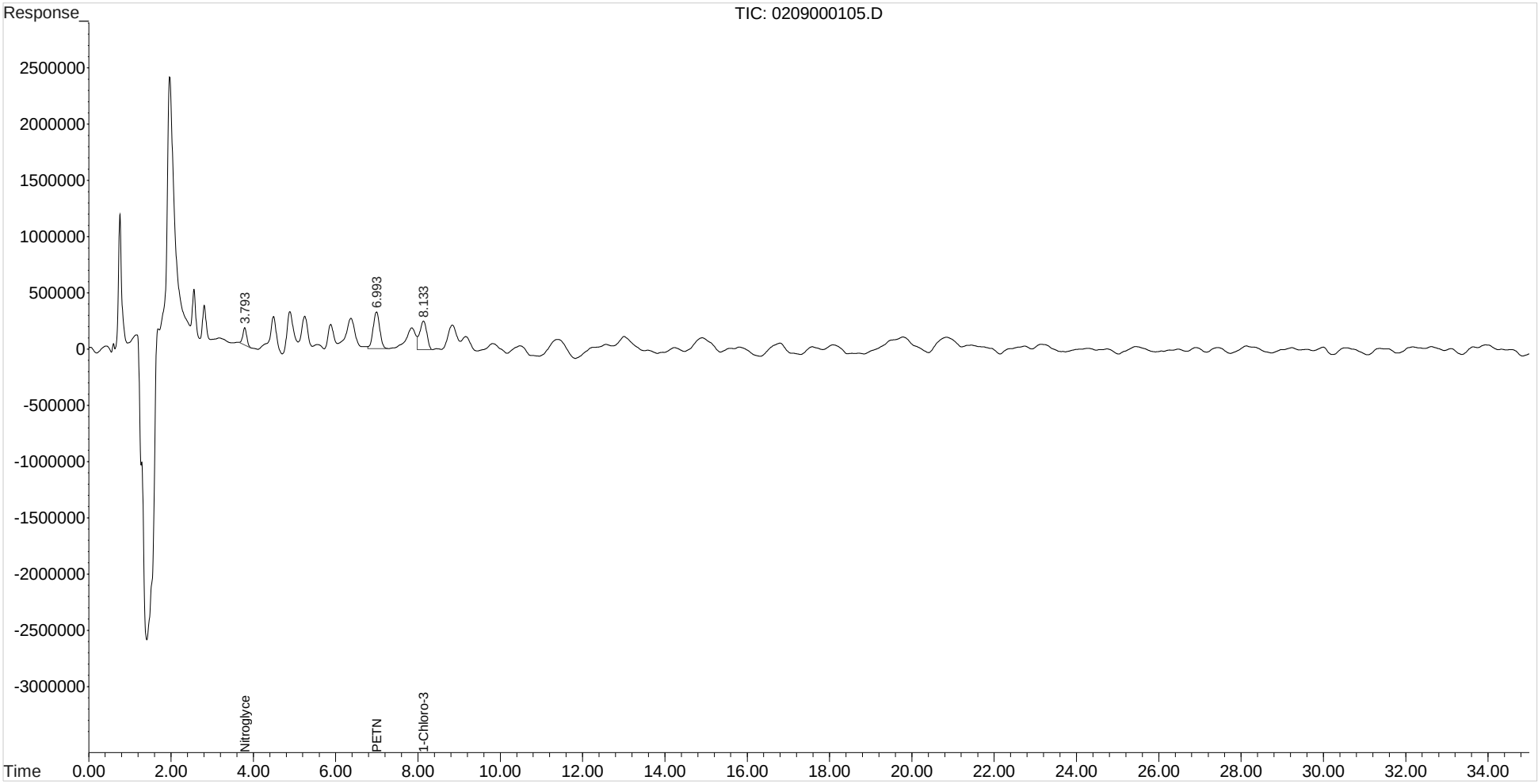
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

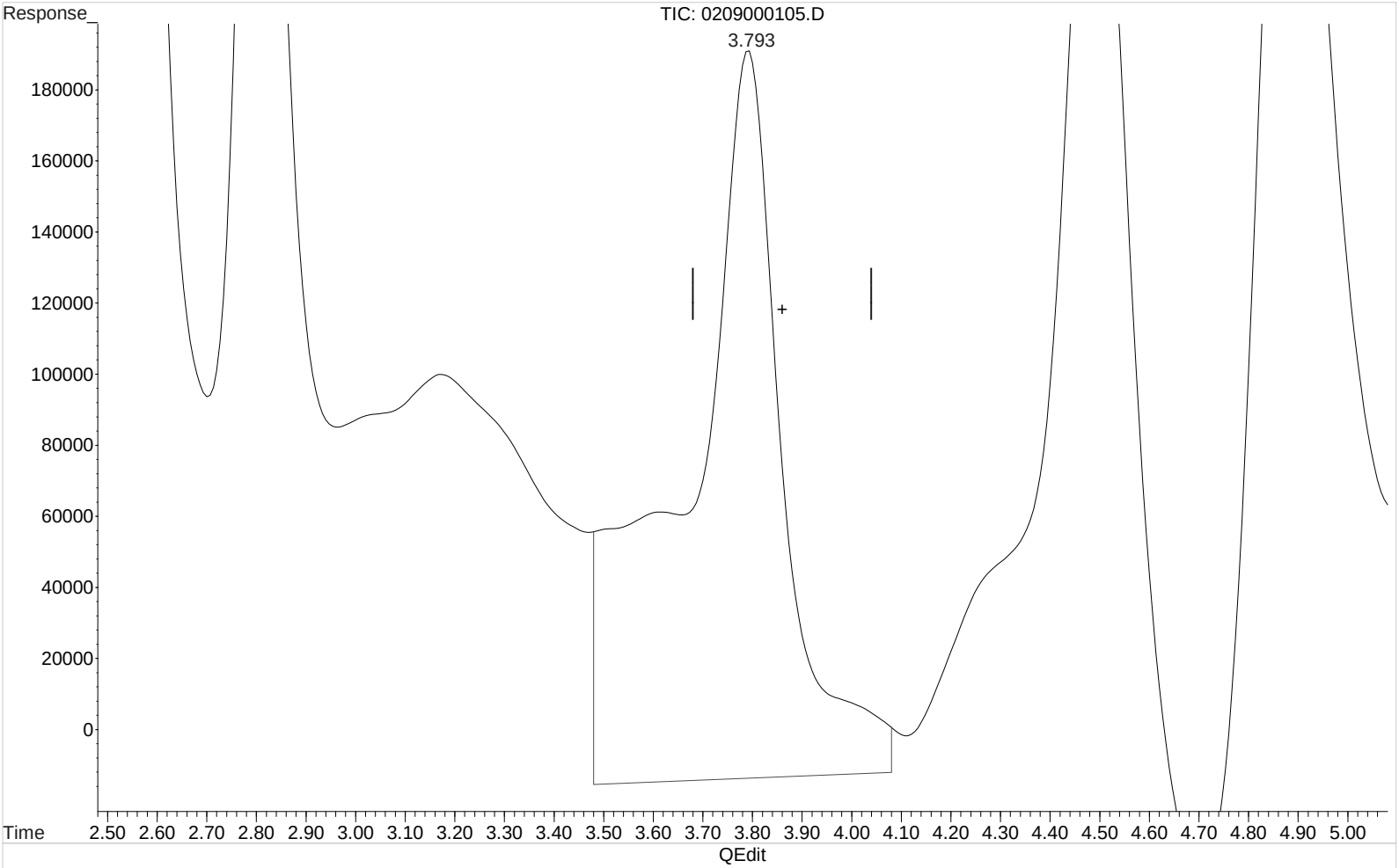


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:25 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.793min 133.146 ug/L

response 2790132

Manual Integration:

Before

02/10/17

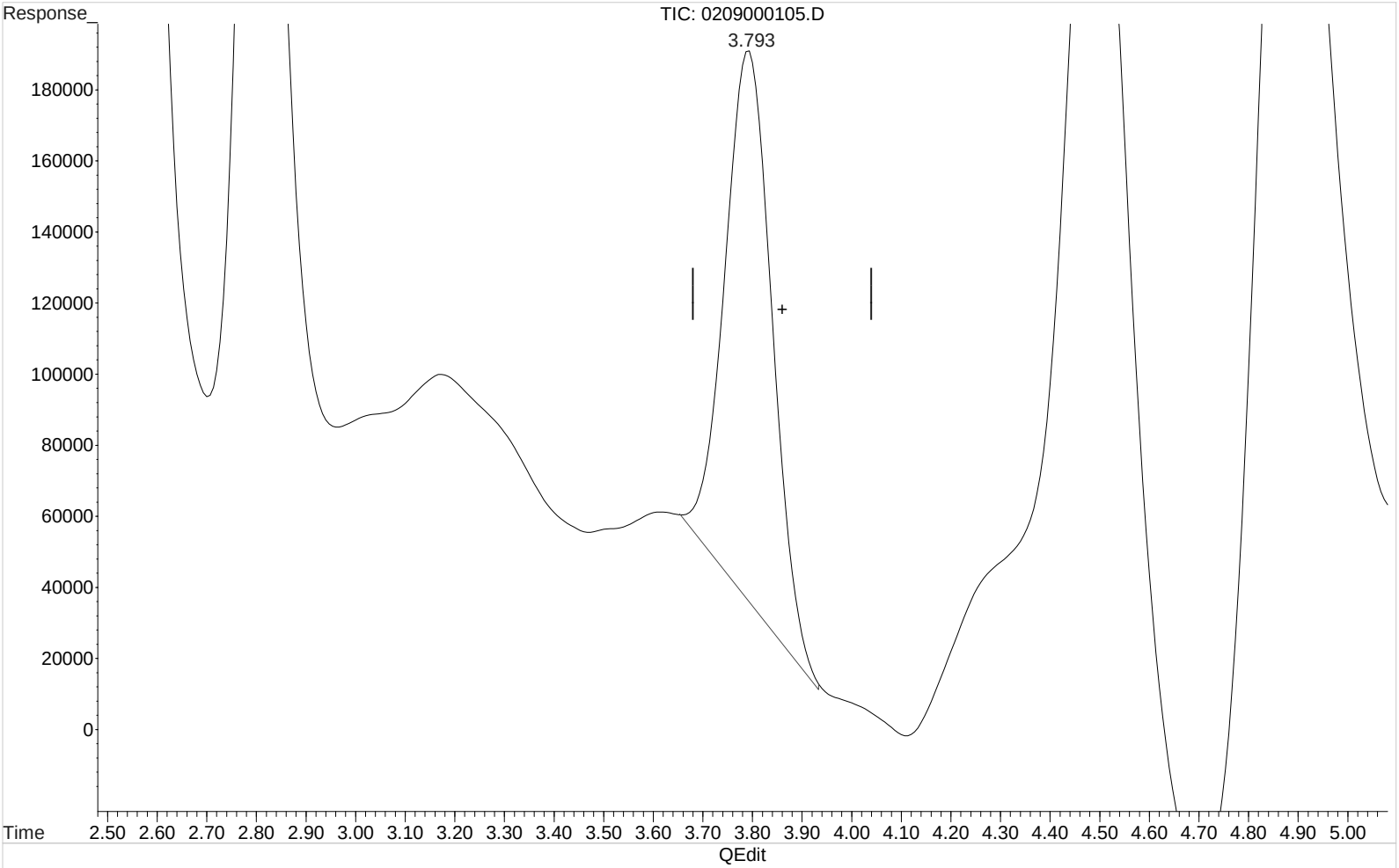
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:25 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.793min 48.804 ug/L m

response 1022712

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

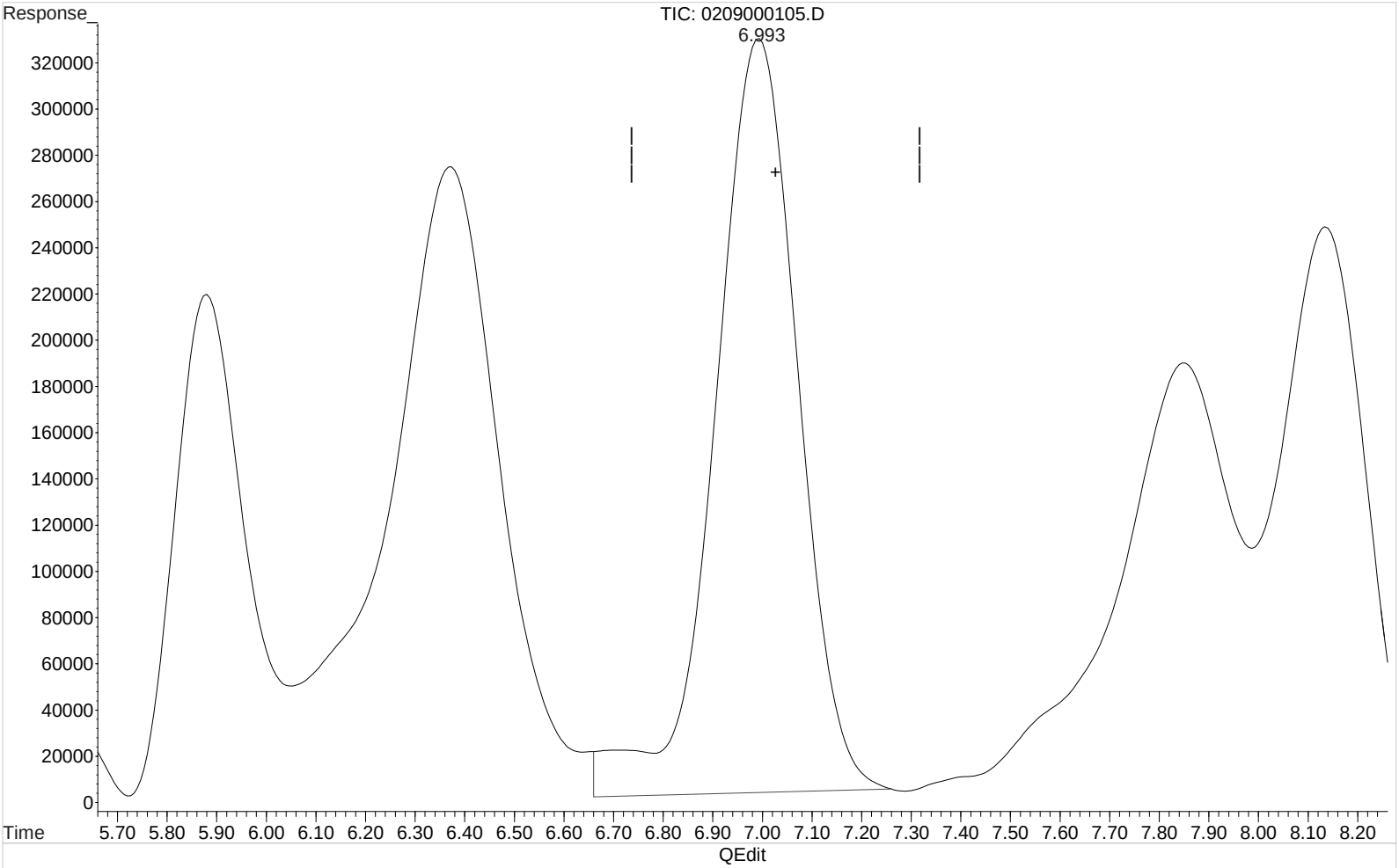
020917_Short_8330B@210.M Fri Feb 10 10:31:36 2017 Page: 1

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:25 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.993min 45.943 ug/L

response 3802017

Manual Integration:

Before

02/10/17

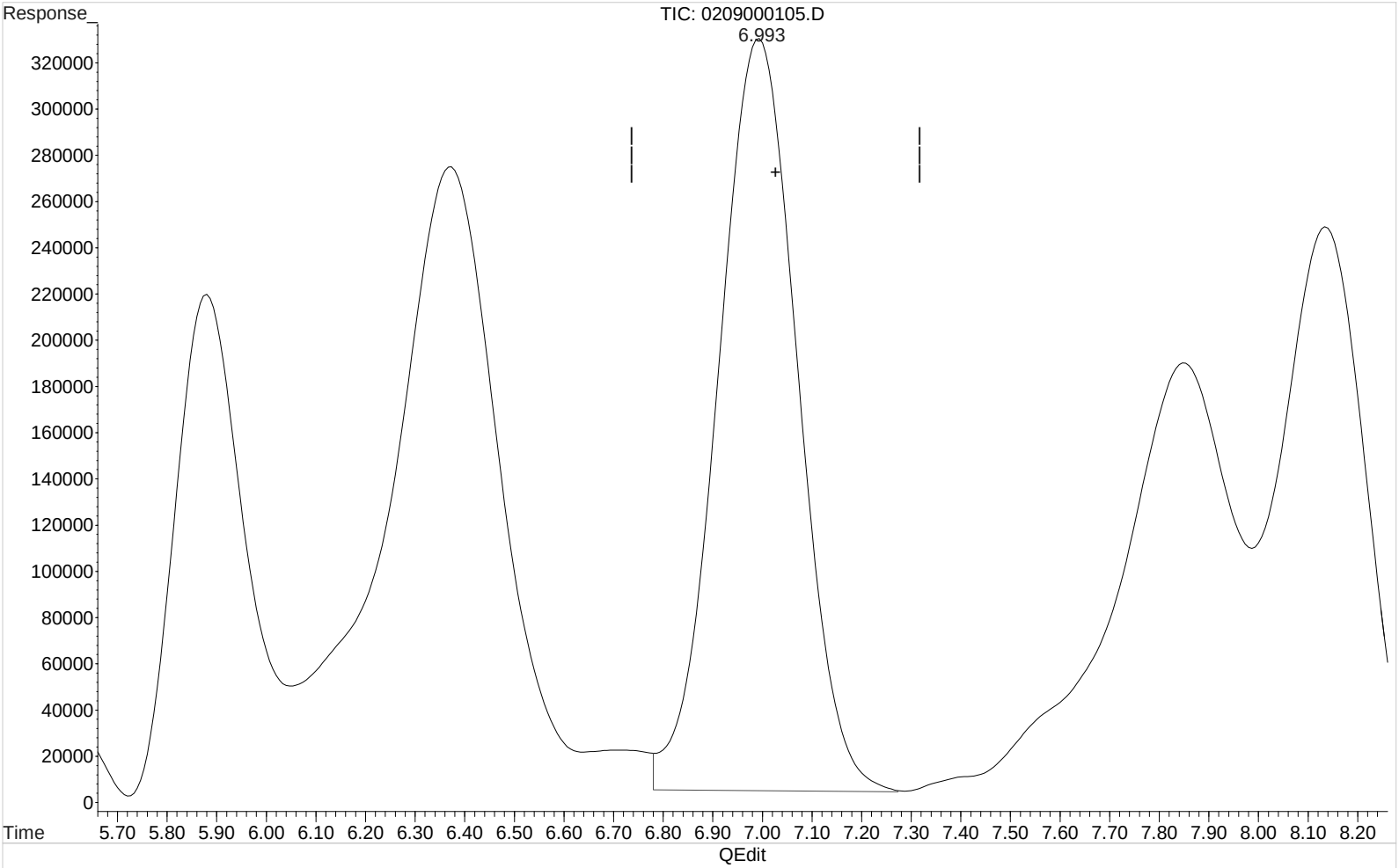
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:25 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.993min 44.021 ug/L m

response 3642903

Manual Integration:

After

BLC

02/10/17

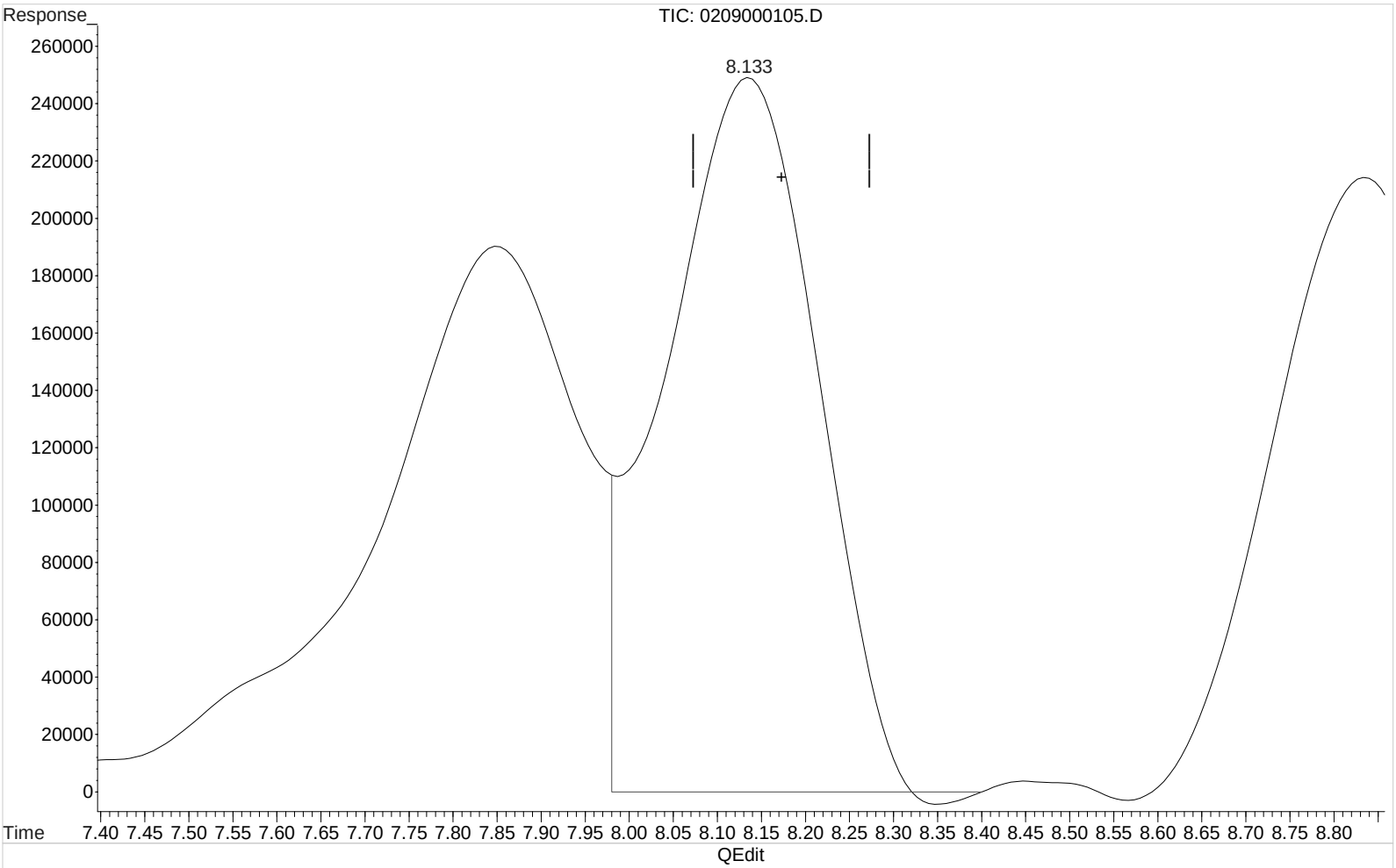
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:25 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.133min 41.867 ug/L

response 2955960

Manual Integration:

Before

02/10/17

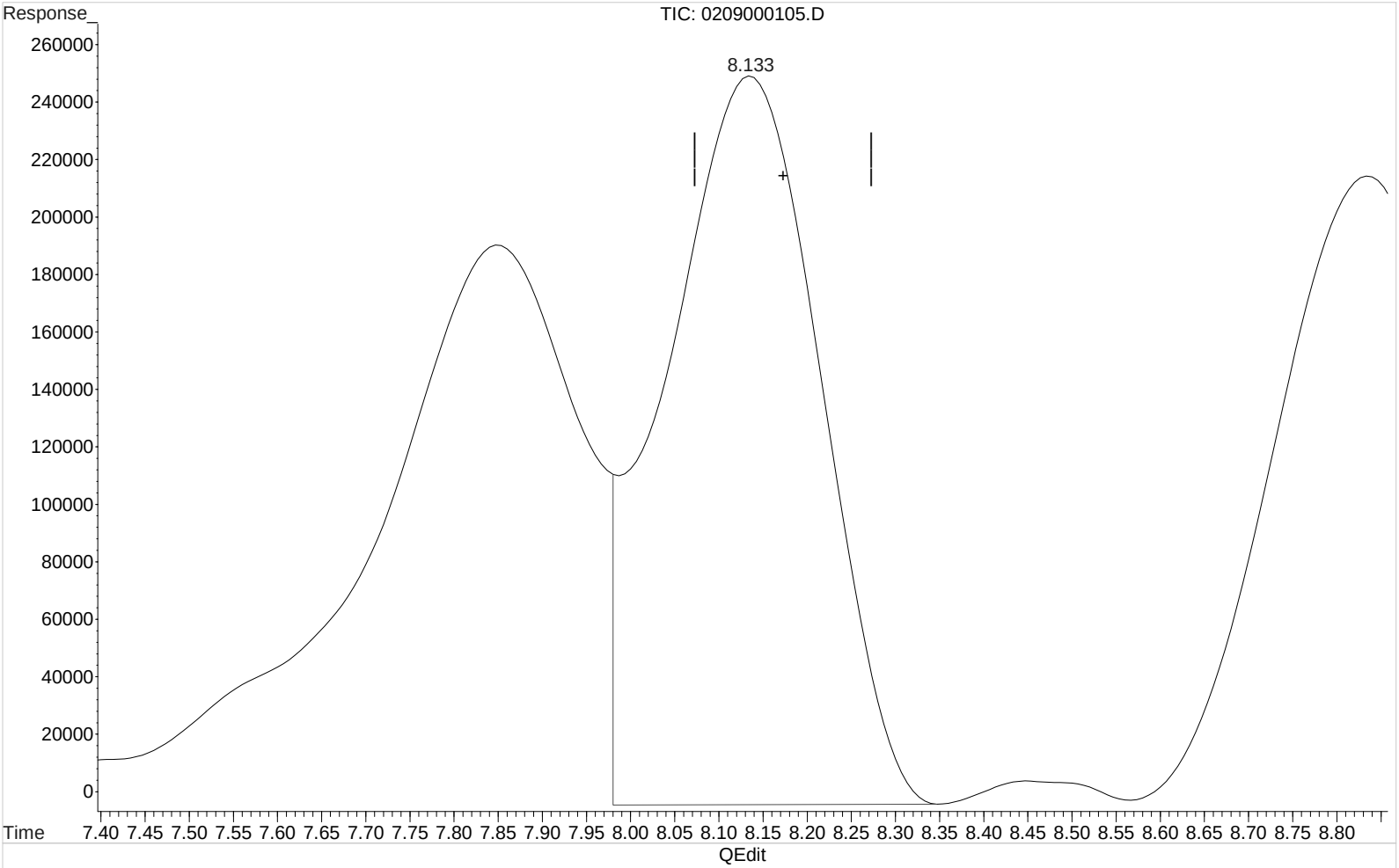
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:25 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.133min 43.366 ug/L m

response 3061814

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:09 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	8.147	7680230	110.160	ug/L	m
Target Compounds						
1) T	Nitroglycerin	3.787	1979030	93.695	ug/L	m
2) T	PETN	6.987	8553205	103.854	ug/L	m

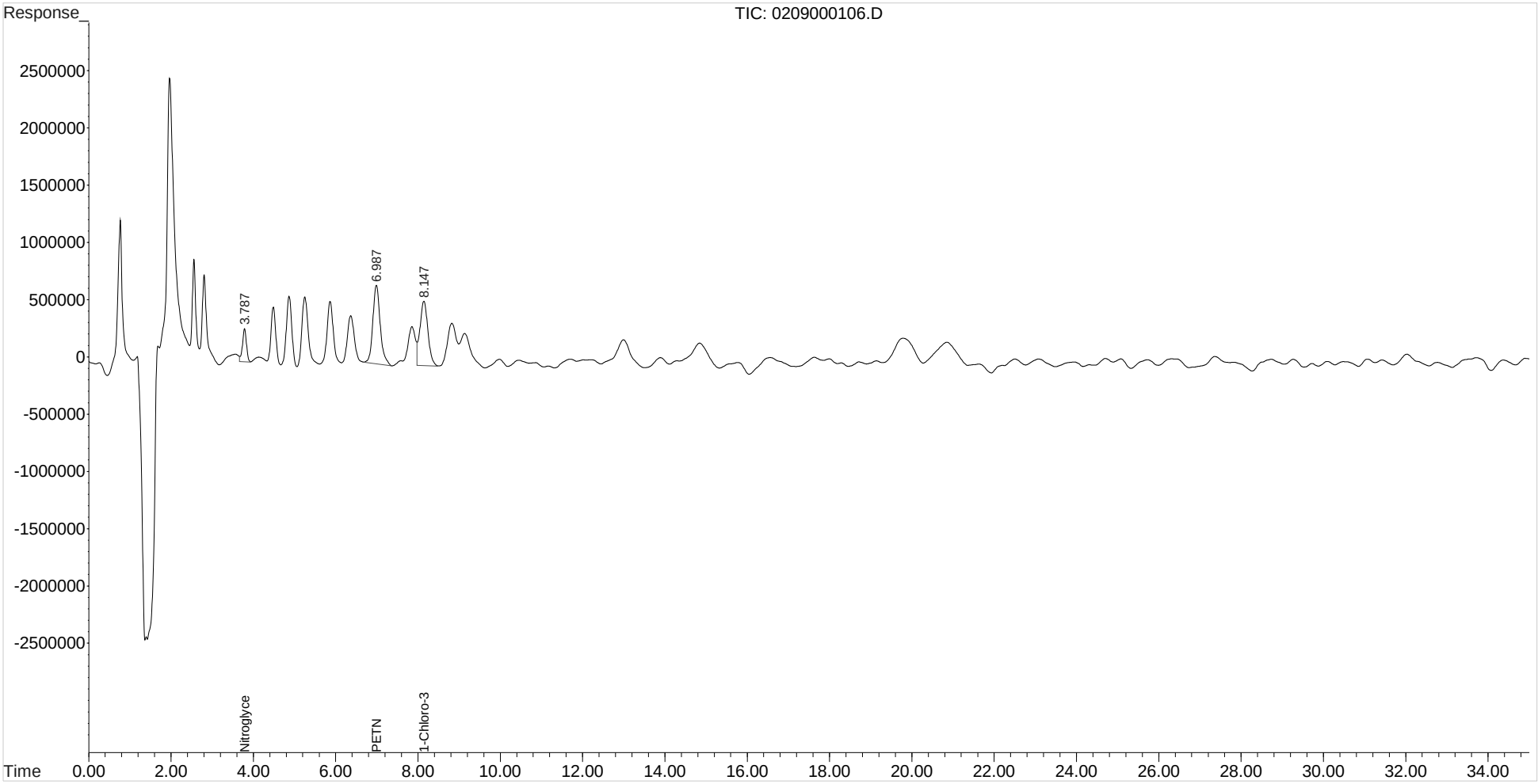
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:09 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

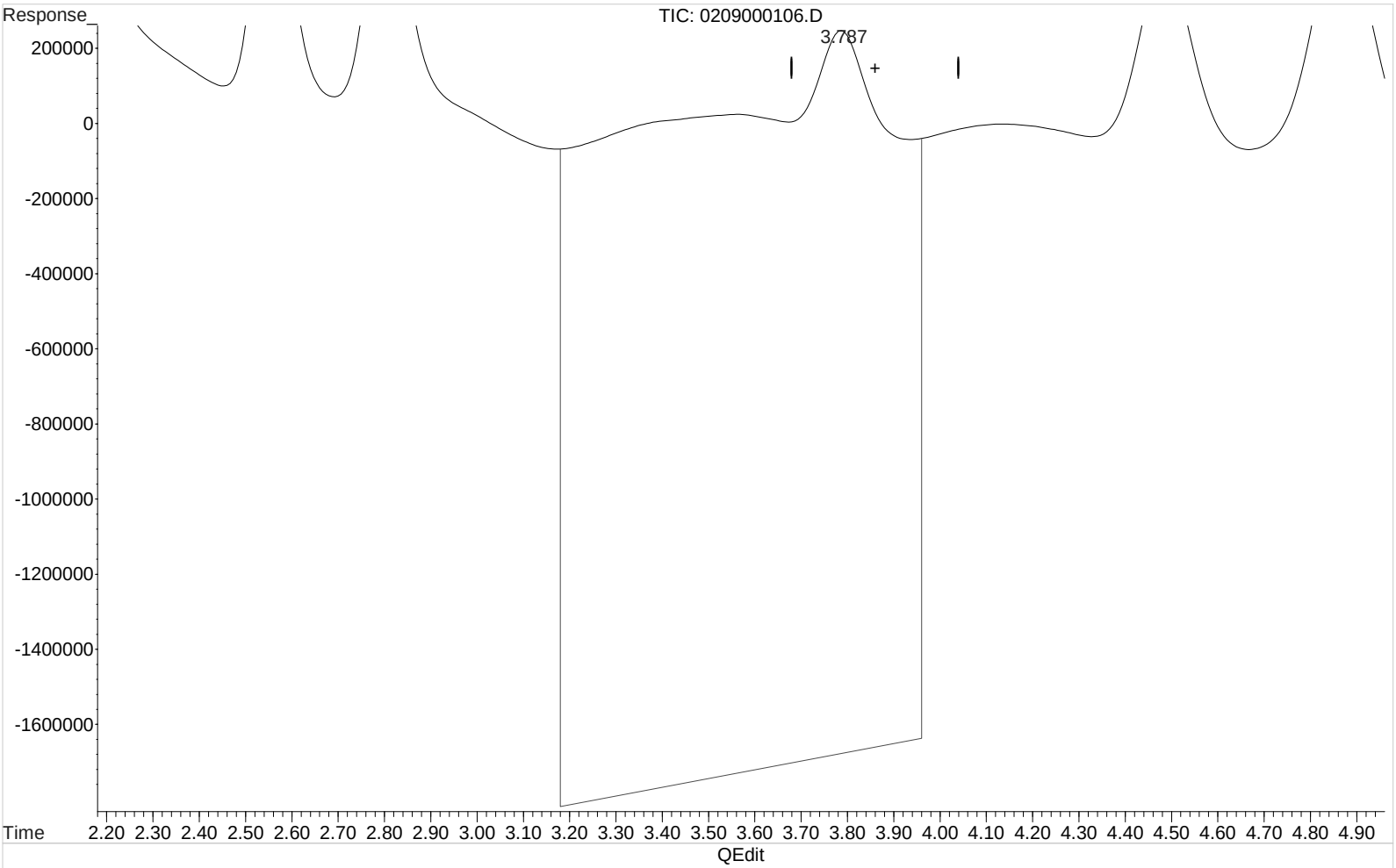


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:30:06 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.787min 3880.314 ug/L

response 81959818

Manual Integration:

Before

02/10/17

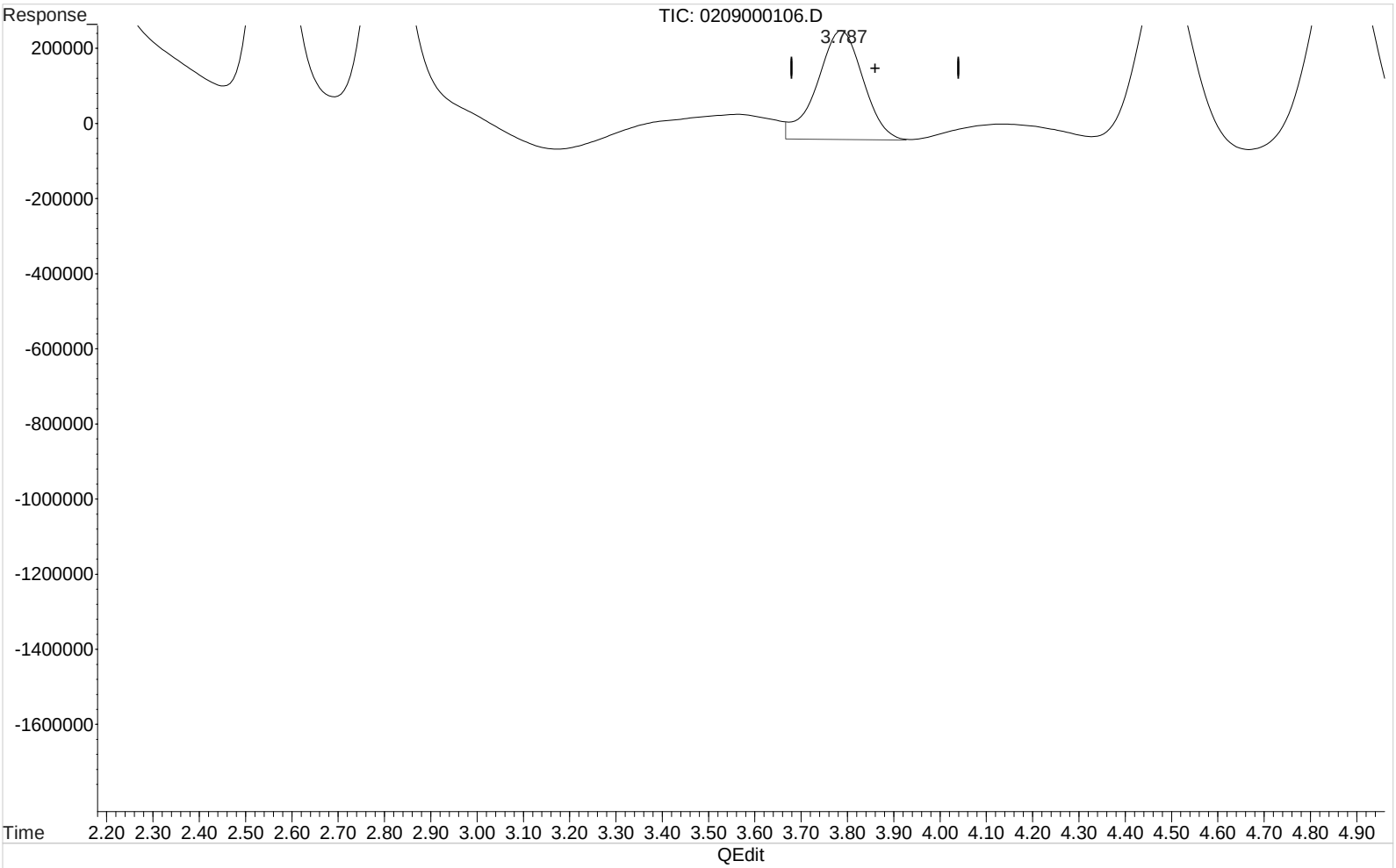
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:30:06 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.787min 93.695 ug/L m

response 1979030

Manual Integration:

After

BLC

02/10/17

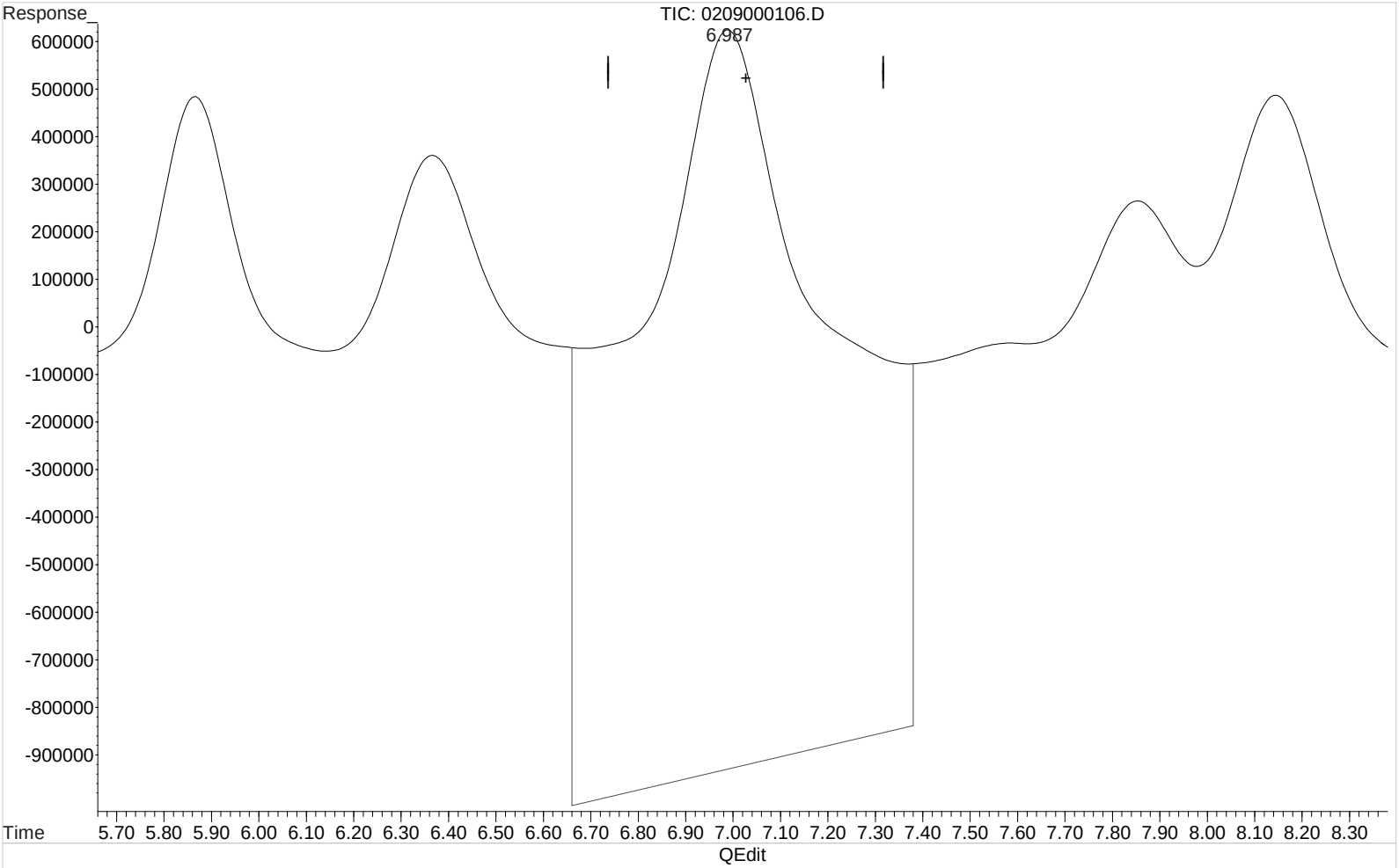
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:30:06 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.987min 555.668 ug/L

response 45763665

Manual Integration:

Before

02/10/17

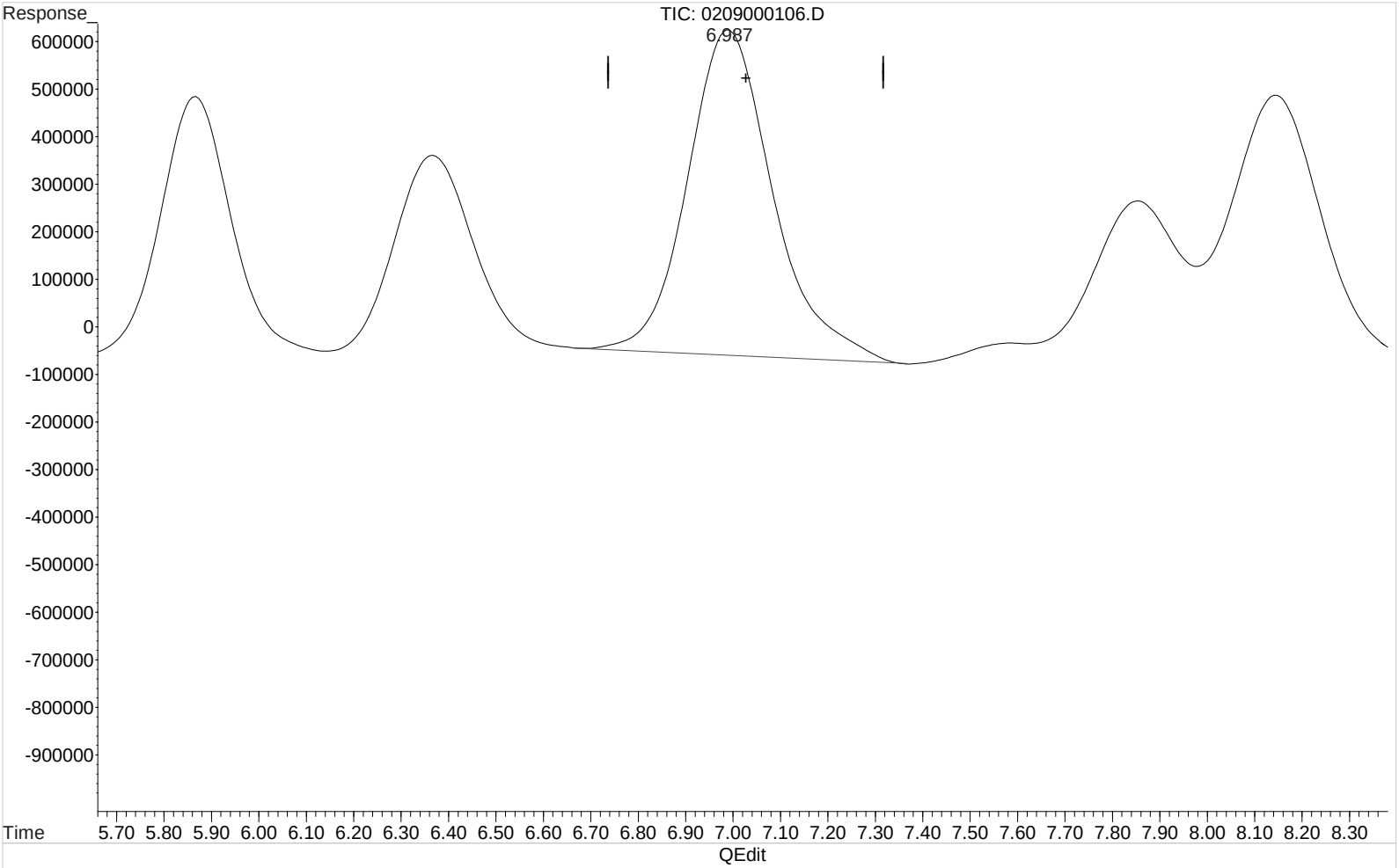
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:30:06 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.987min 103.854 ug/L m

response 8553205

Manual Integration:

After

BLC

02/10/17

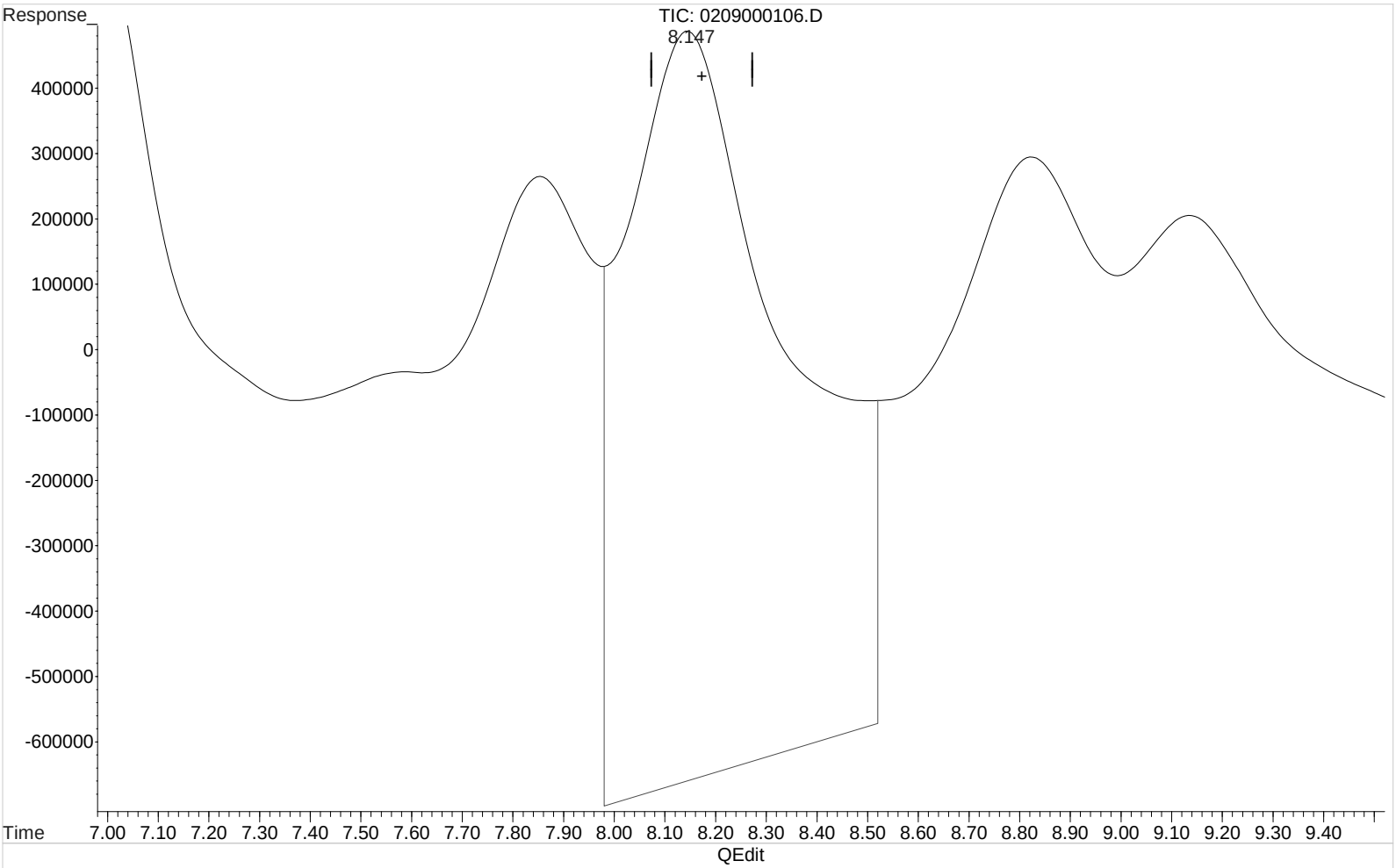
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:30:06 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.147min 368.214 ug/L

response 25671459

Manual Integration:

Before

02/10/17

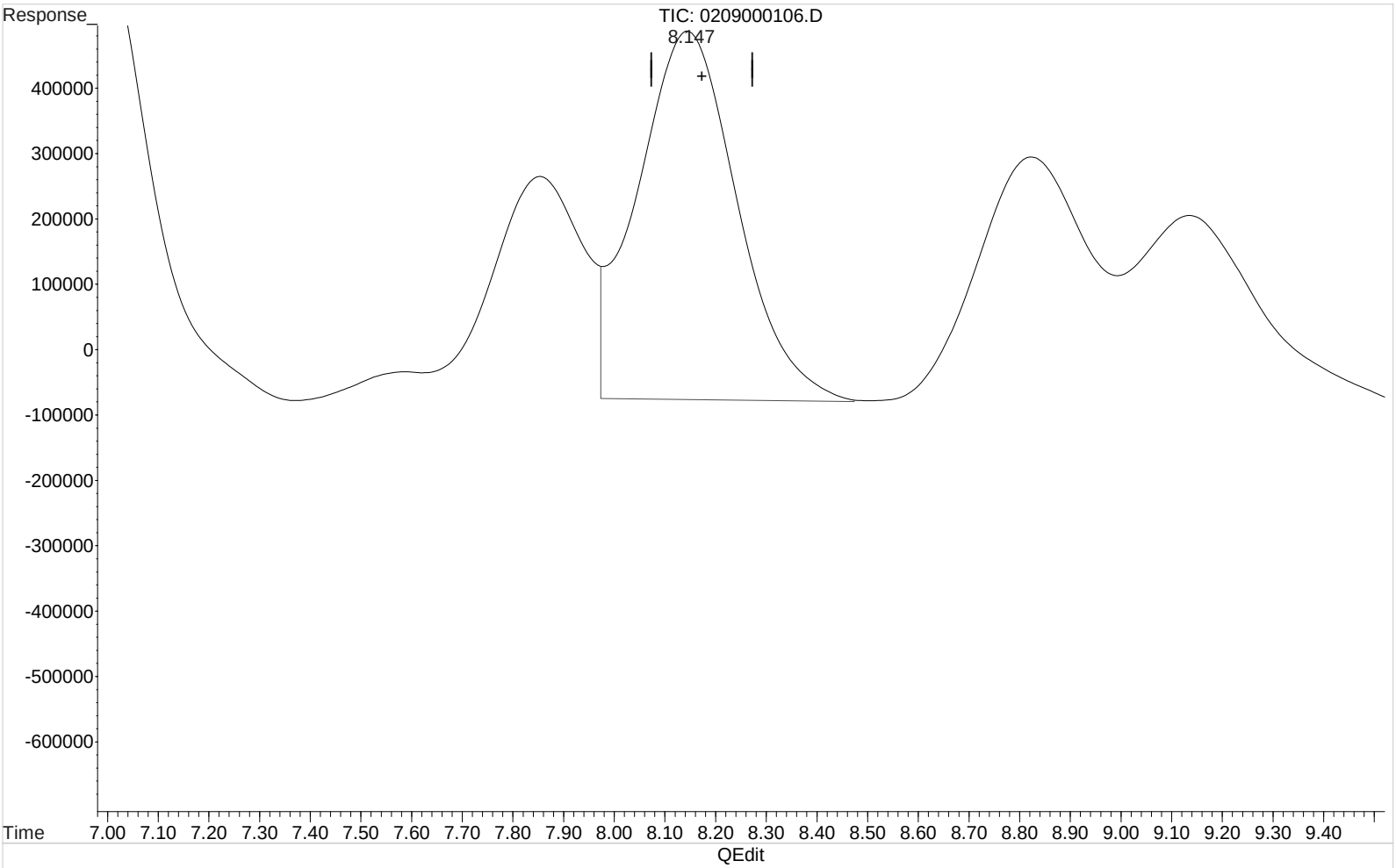
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:30:06 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.147min 110.160 ug/L m

response 7680230

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:29:46 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	8.133	13561422	193.631 ug/L m
Target Compounds				
1) T	Nitroglycerin	3.780	3978902	186.571 ug/L m
2) T	PETN	6.980	17566508	215.684 ug/L m

(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)

02/13/17

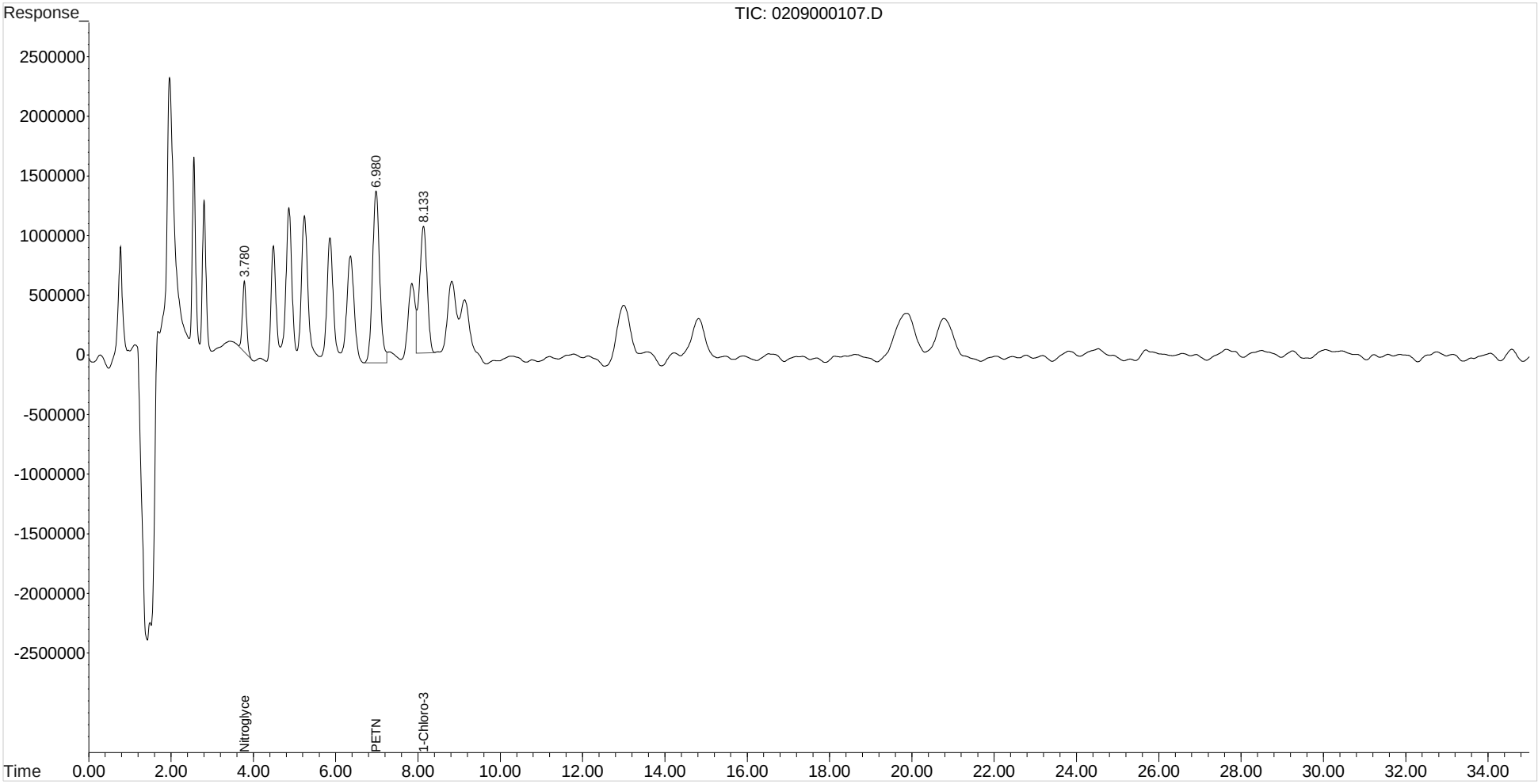
02/17/17

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:29:46 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

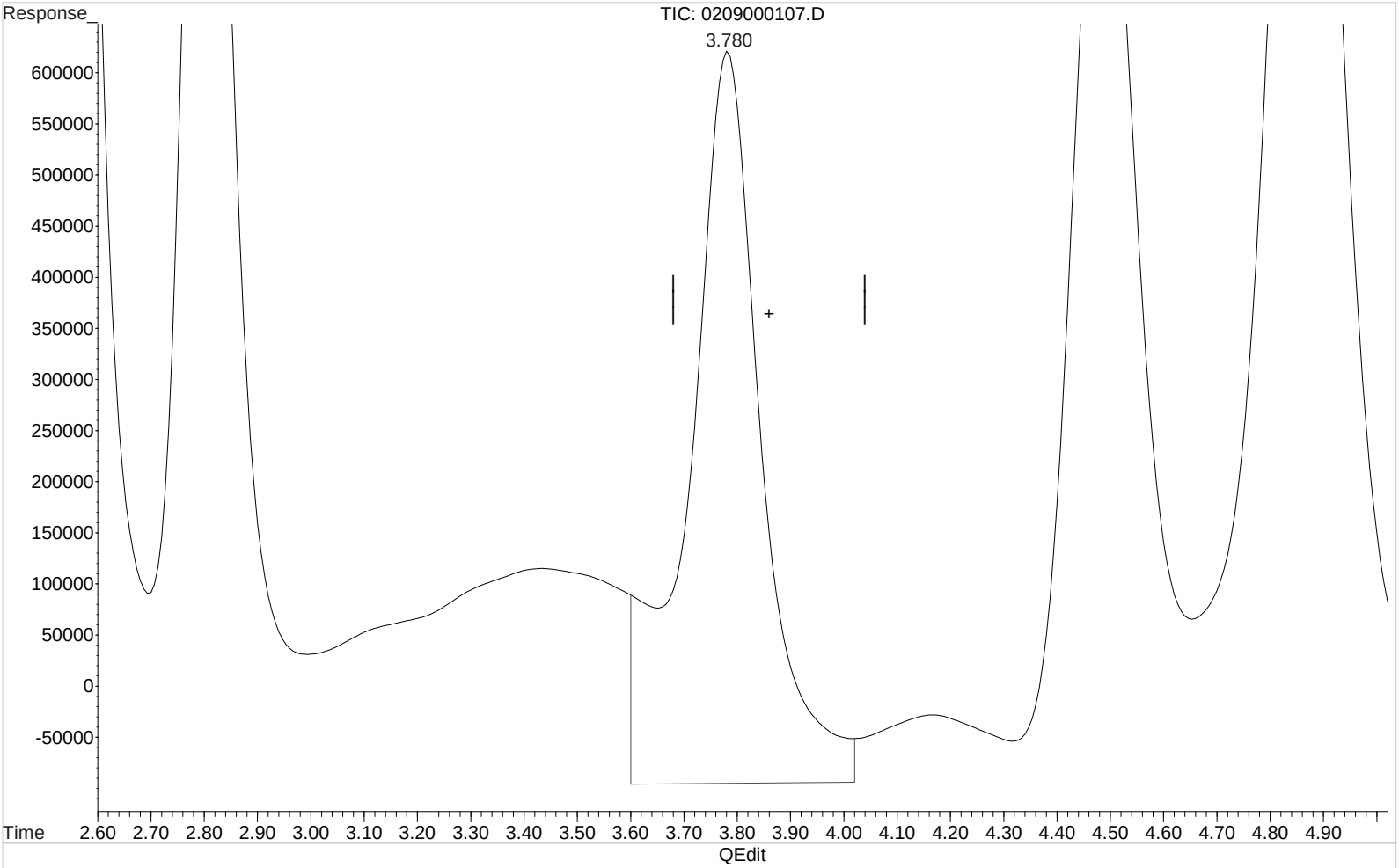


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:42 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.780min 317.059 ug/L

response 6761779

Manual Integration:

Before

02/10/17

(+) = Expected Retention Time

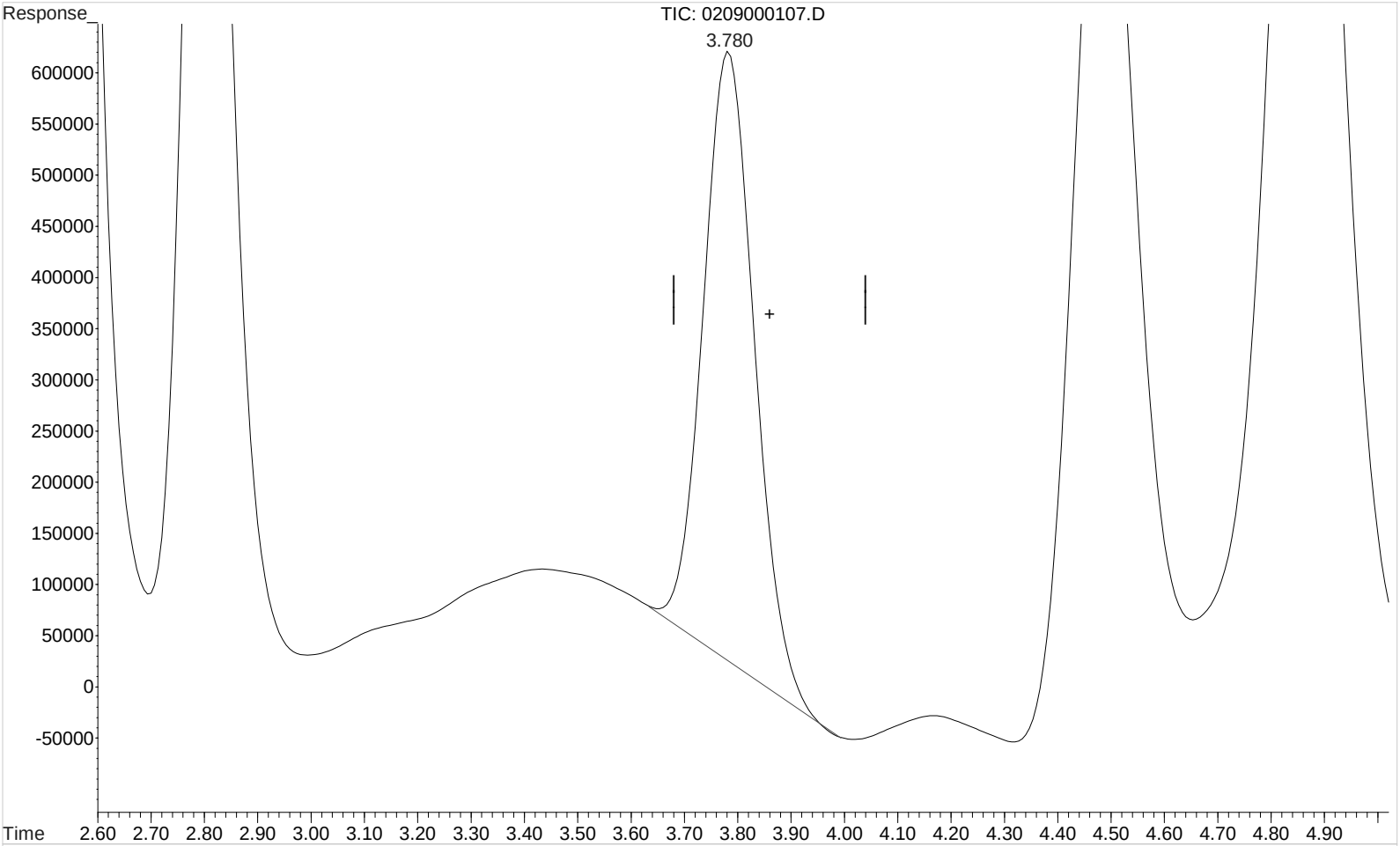
020917_Short_8330B@210.M Fri Feb 10 10:28:45 2017 Page: 1

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:42 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.780min 186.571 ug/L m

response 3978902

Manual Integration:

After

BLC

02/10/17

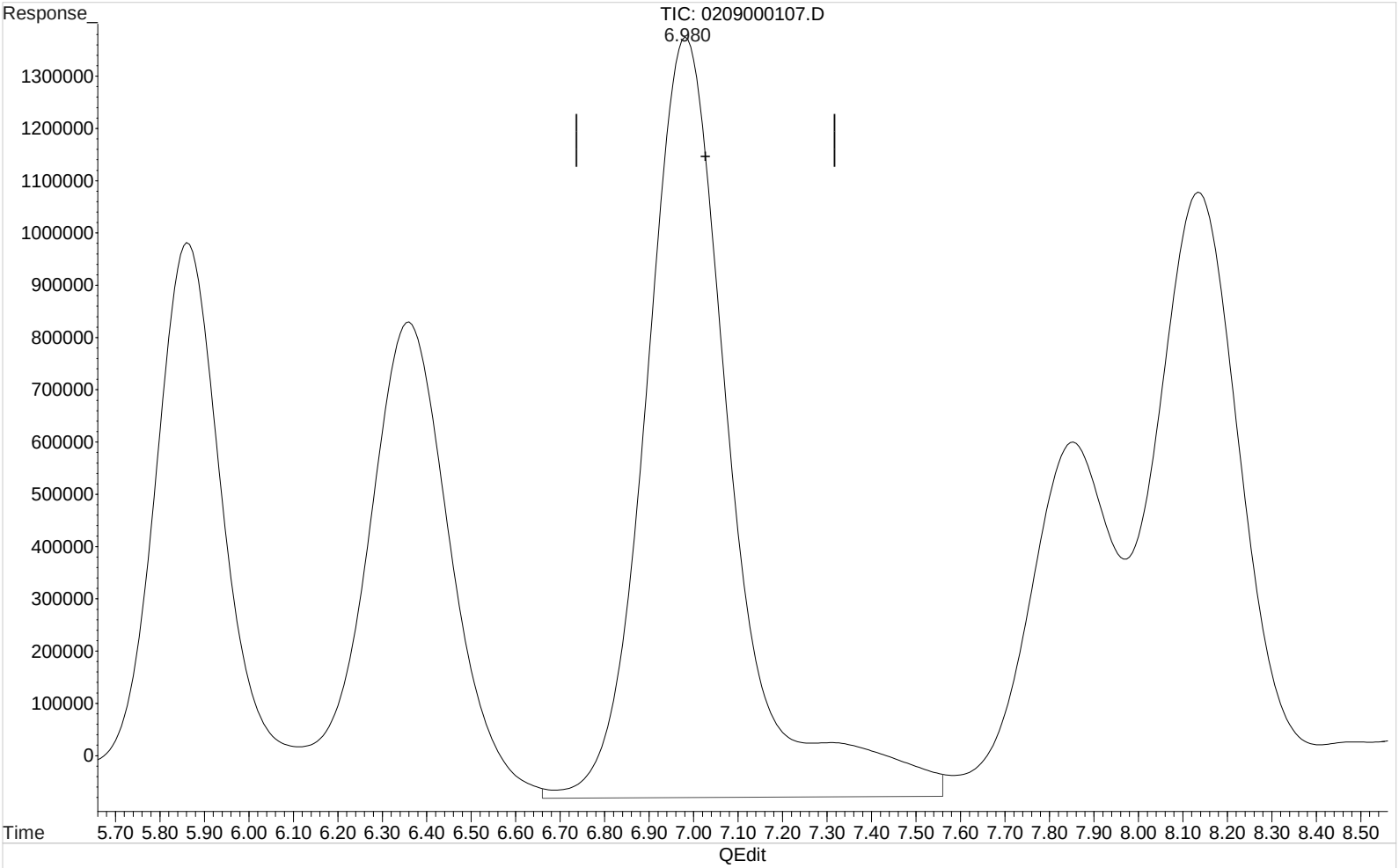
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:42 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.980min 240.910 ug/L

response 19621034

Manual Integration:

Before

02/10/17

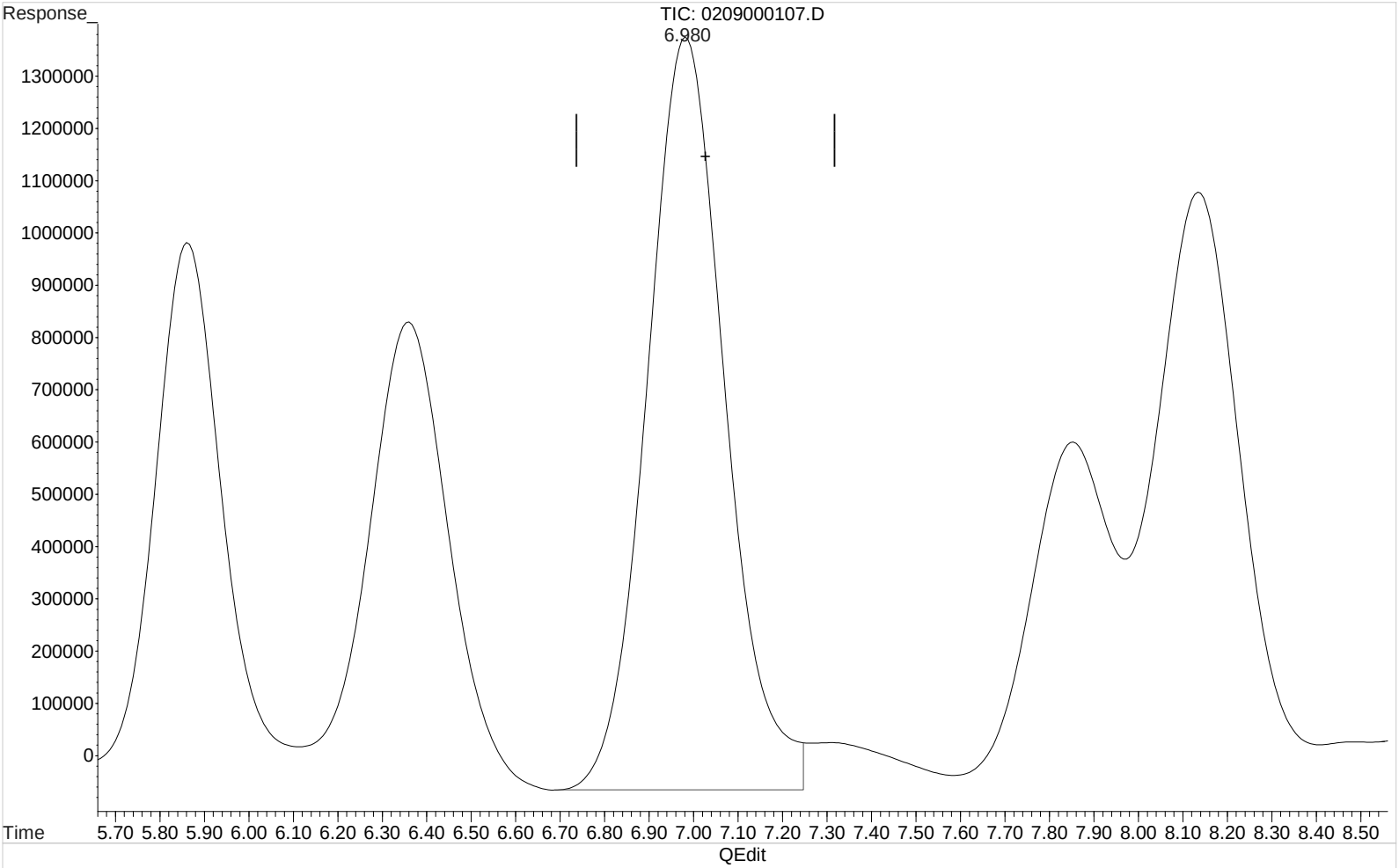
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:42 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.980min 215.684 ug/L m

response 17566508

Manual Integration:

After

BLC

02/10/17

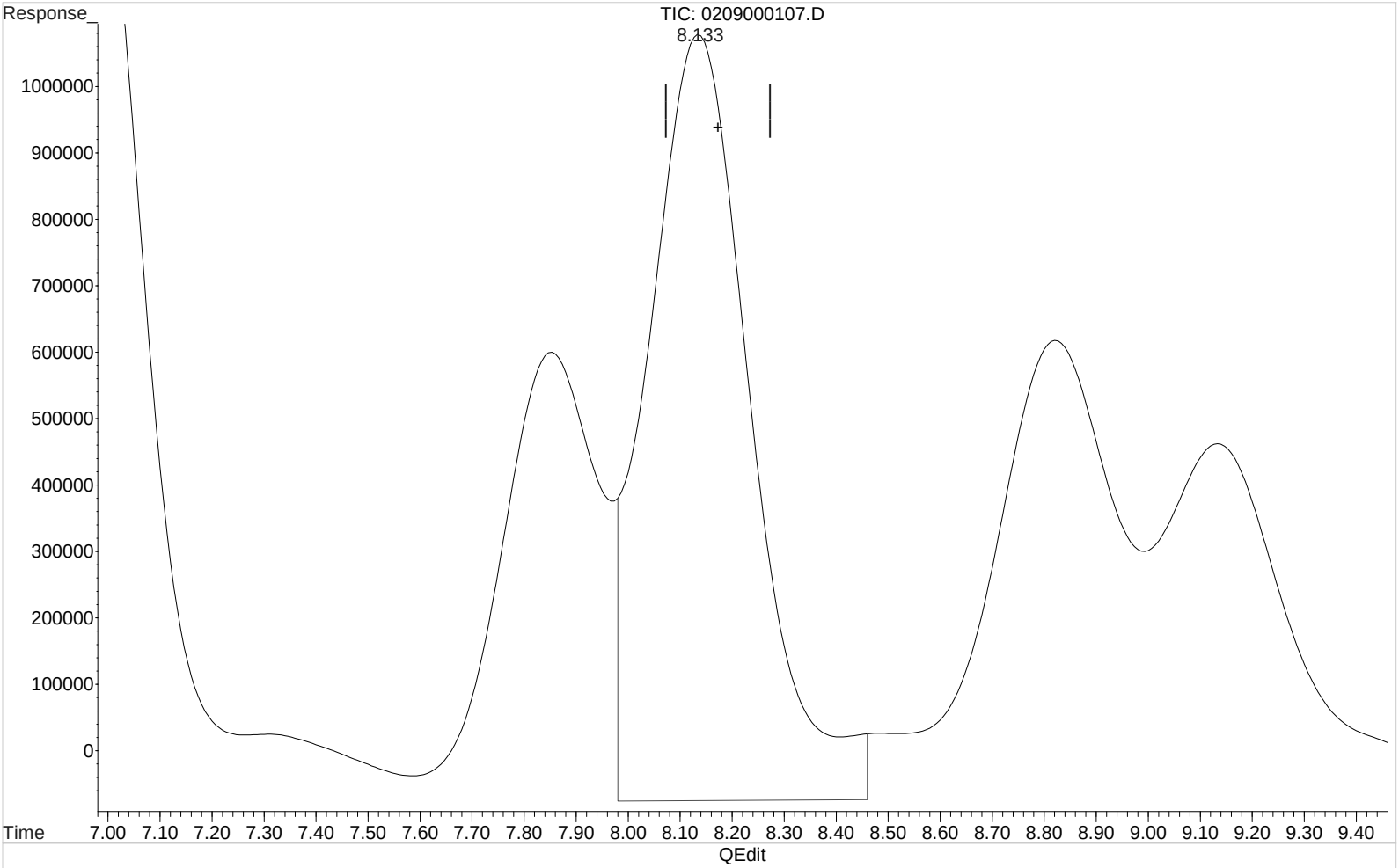
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:42 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.133min 225.281 ug/L

response 15778076

Manual Integration:

Before

02/10/17

(+) = Expected Retention Time

(b) (6)

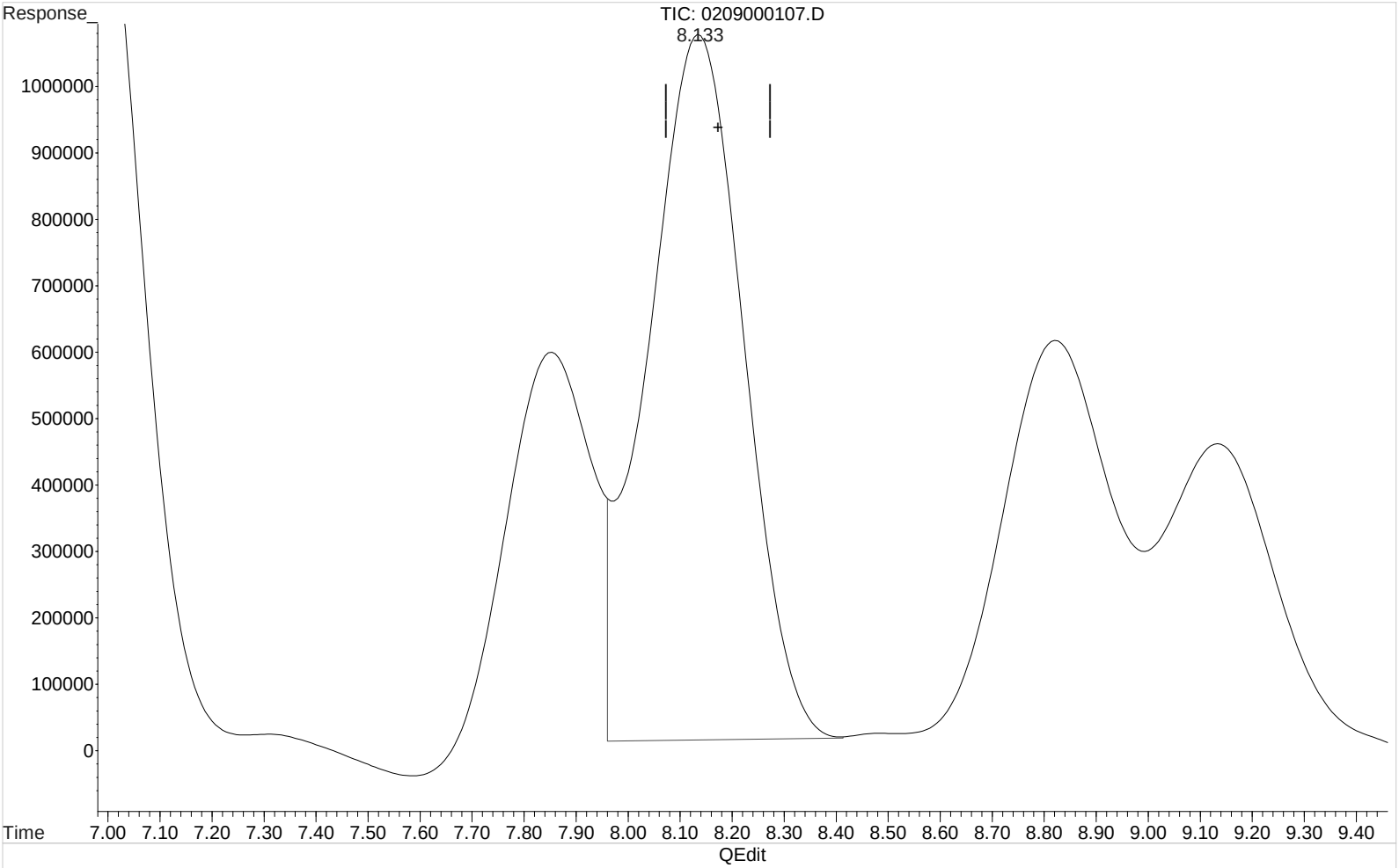
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:42 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.133min 193.631 ug/L m

response 13561422

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000108.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:14 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:27:33 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	8.153	35971989	516.422 ug/L
Target Compounds				
1) T	Nitroglycerin	3.800	11272556	534.680 ug/L m
2) T	PETN	6.993	42145946	521.117 ug/L m

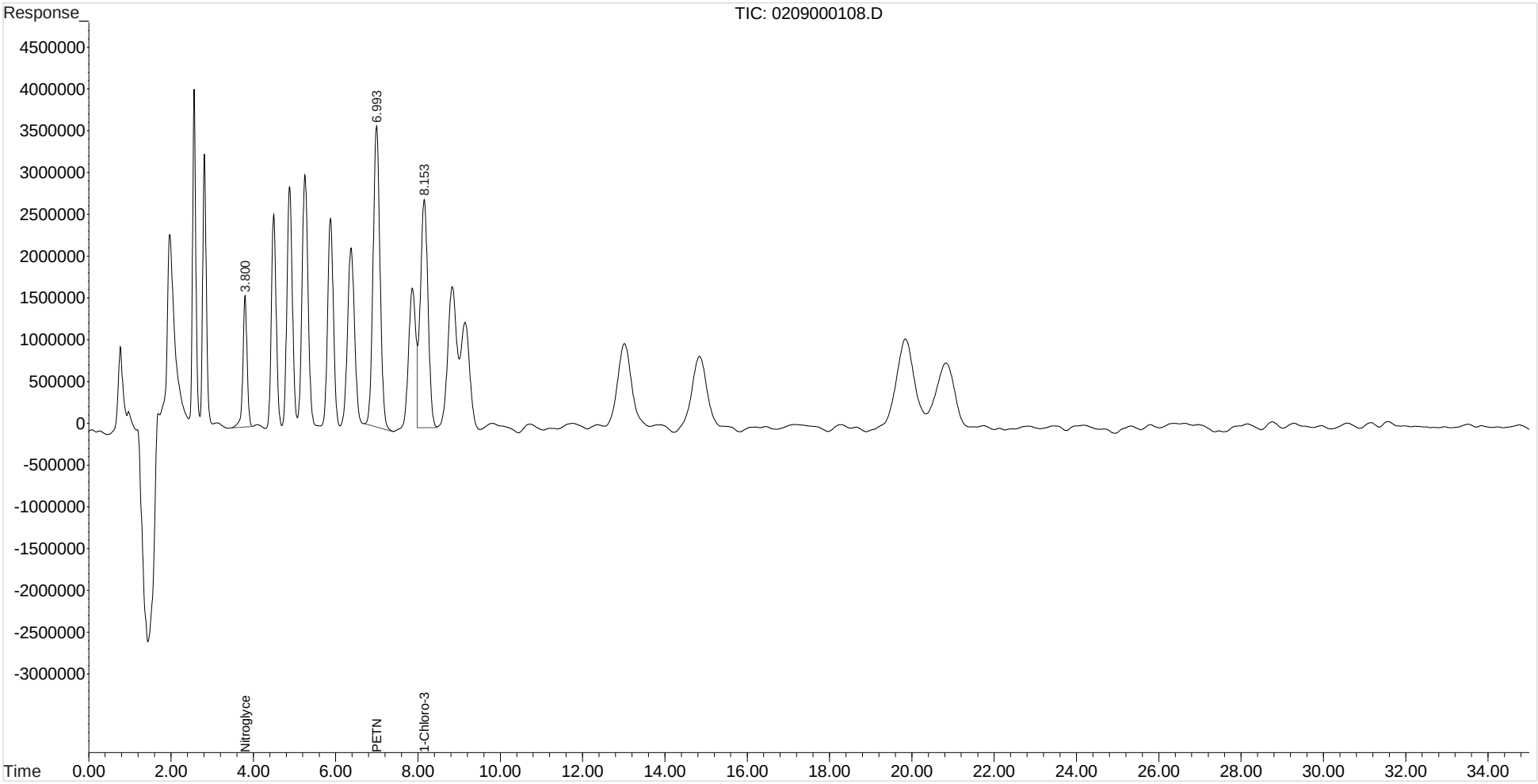
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000108.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:14 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:27:33 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

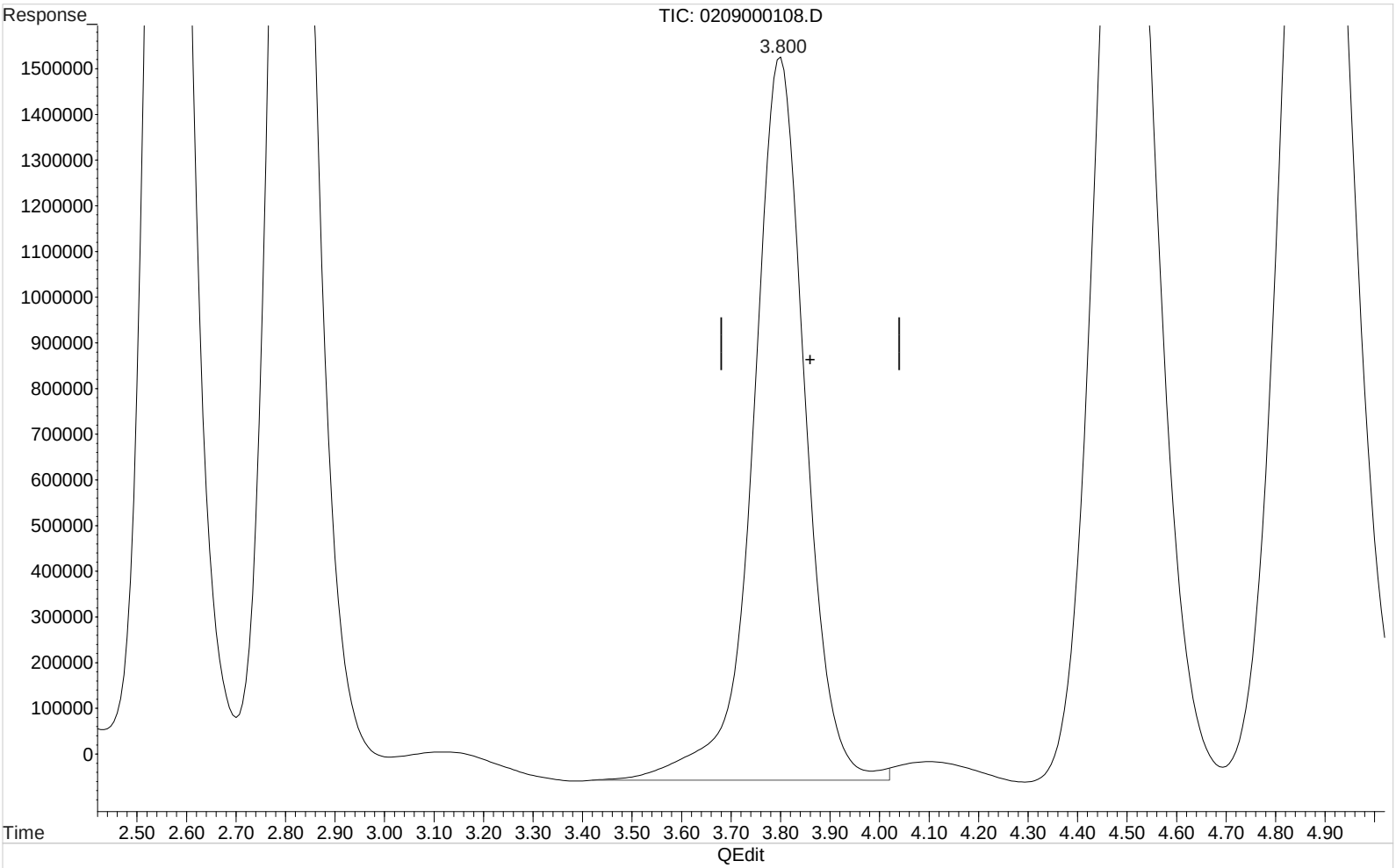


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000108.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:43 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:27:33 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.800min 552.022 ug/L

response 11638168

Manual Integration:

Before

02/10/17

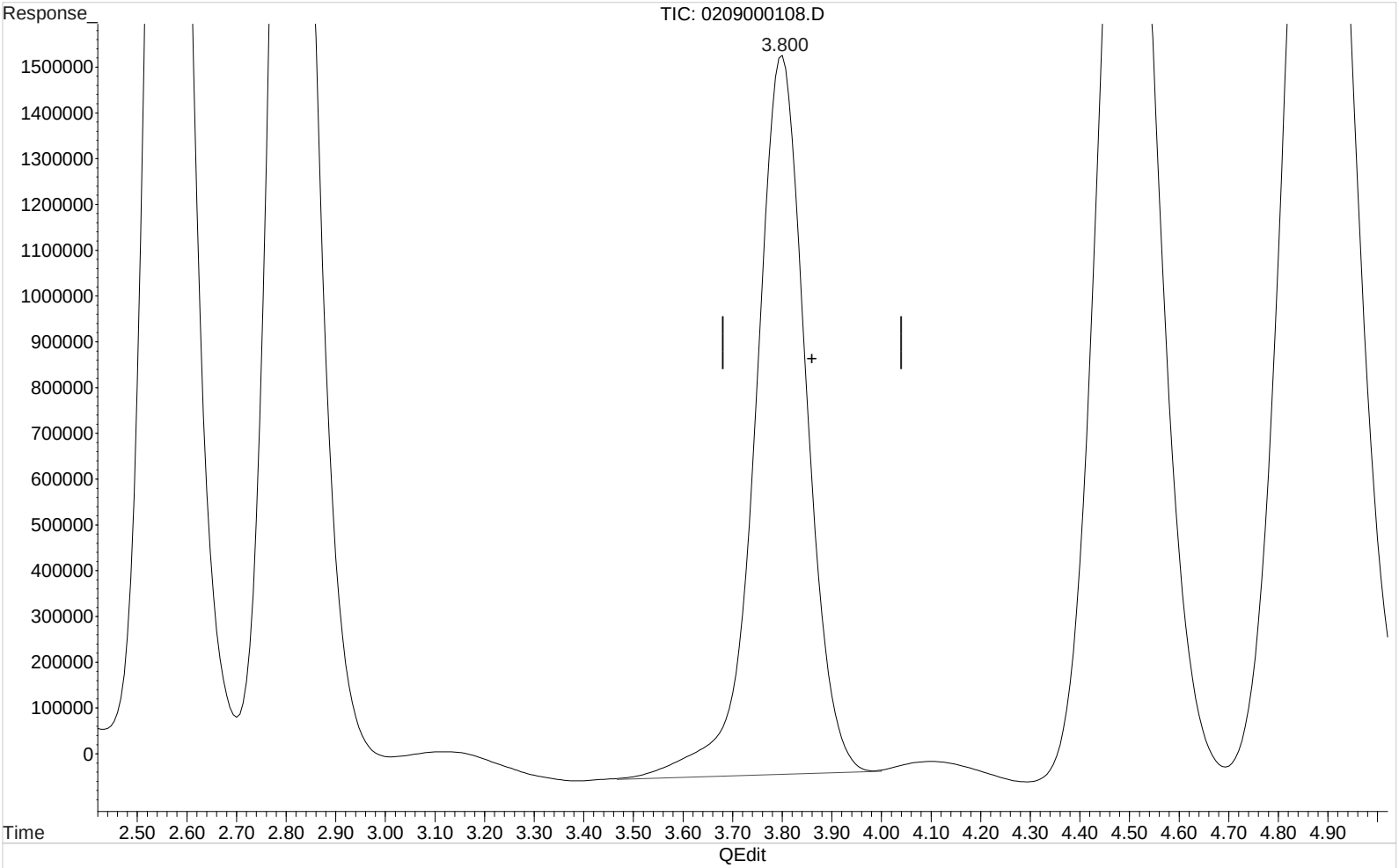
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000108.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:43 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:27:33 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.800min 534.680 ug/L m

response 11272556

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

(b) (6)

02/13/17

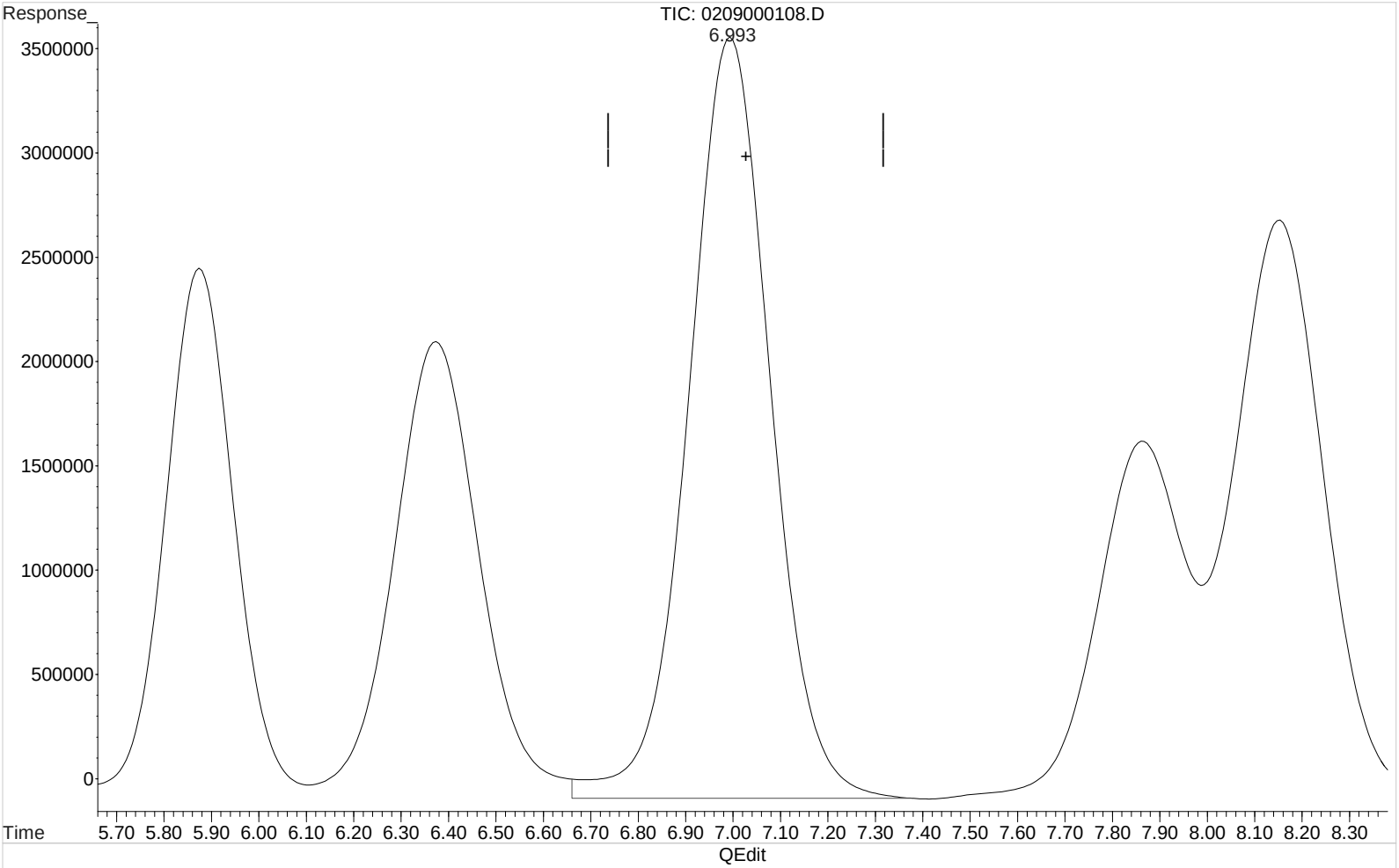
02/17/17

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000108.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:43 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:27:33 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.993min 544.802 ug/L

response 44061458

Manual Integration:

Before

02/10/17

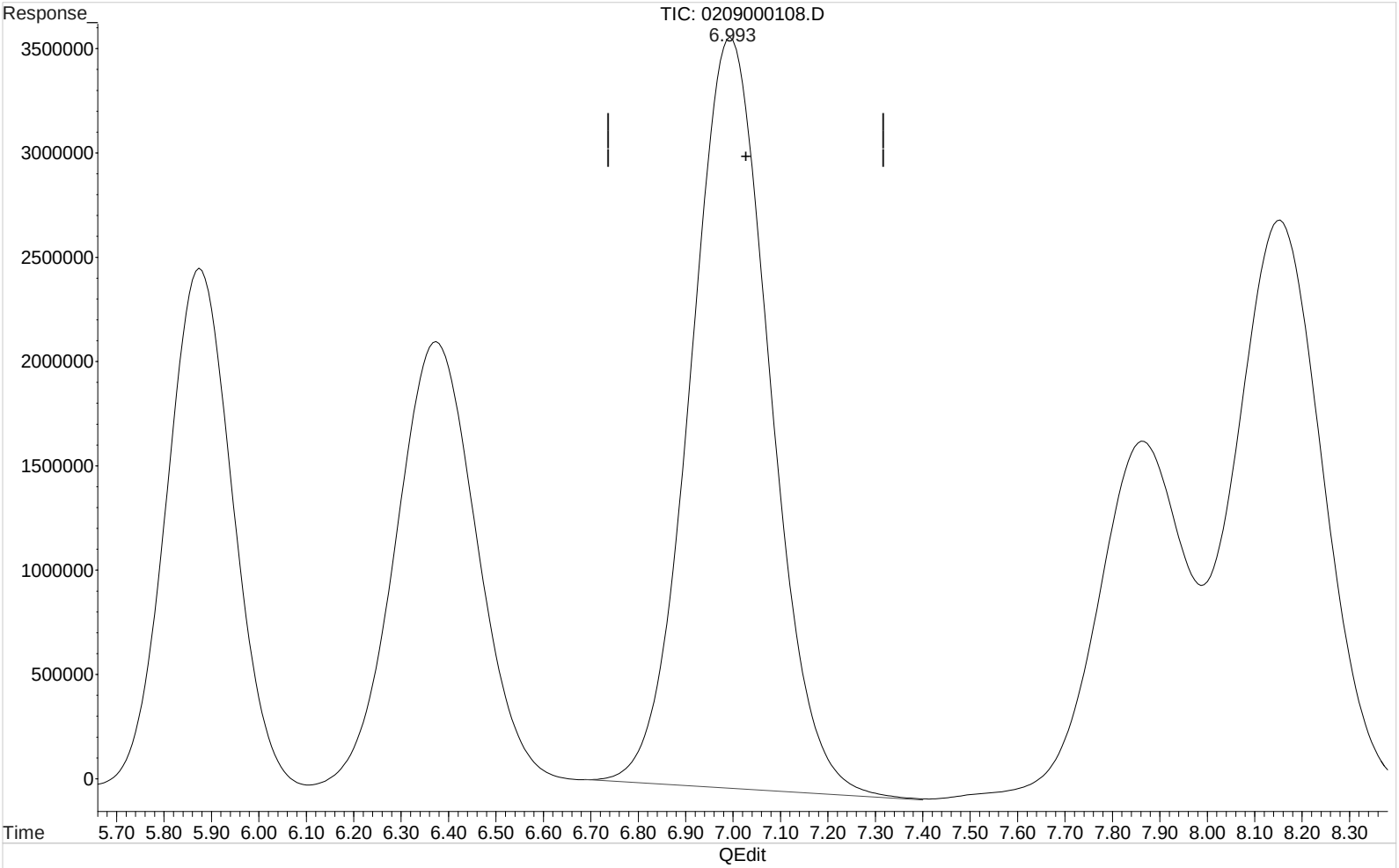
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000108.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:43 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:27:33 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.993min 521.117 ug/L m

response 42145946

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:23 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:26:45 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	8.140	69921036	1004.758	ug/L	
Target Compounds						
1) T	Nitroglycerin	3.793	21356542	1016.282	ug/L	m
2) T	PETN	6.987	82490148	1025.070	ug/L	m

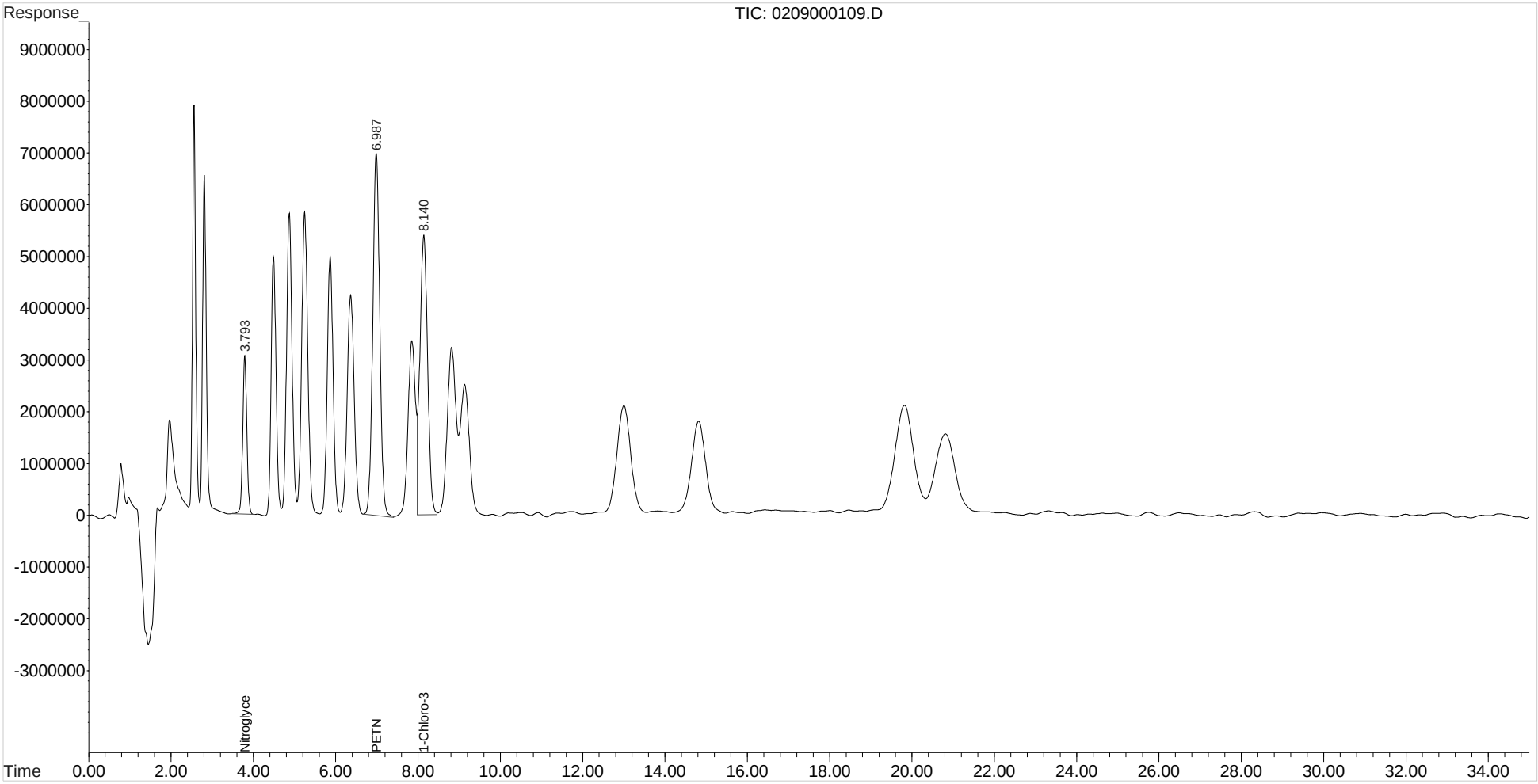
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:23 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:26:45 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

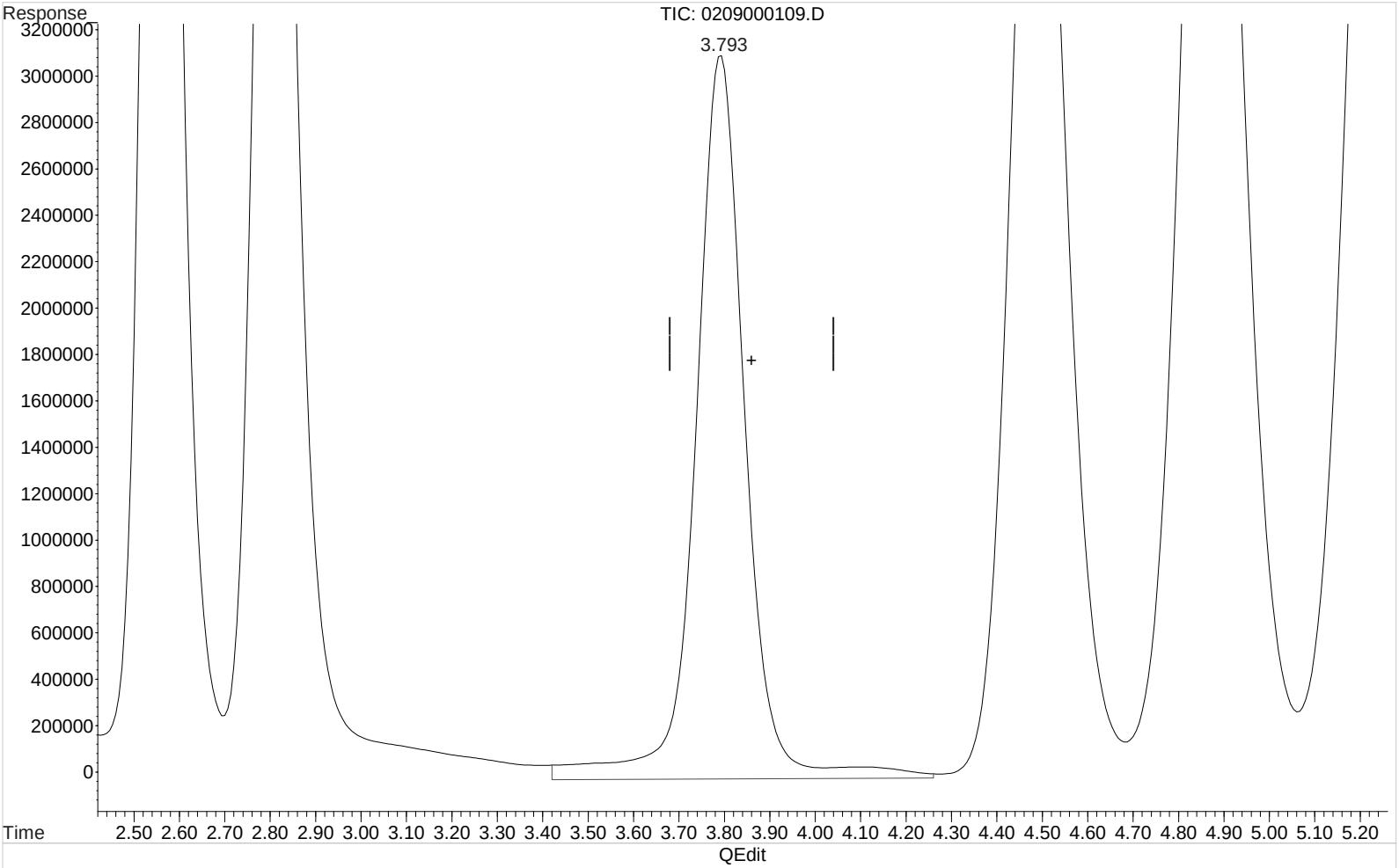


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:01 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:26:45 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.793min 1137.163 ug/L

response 23896782

Manual Integration:

Before

02/10/17

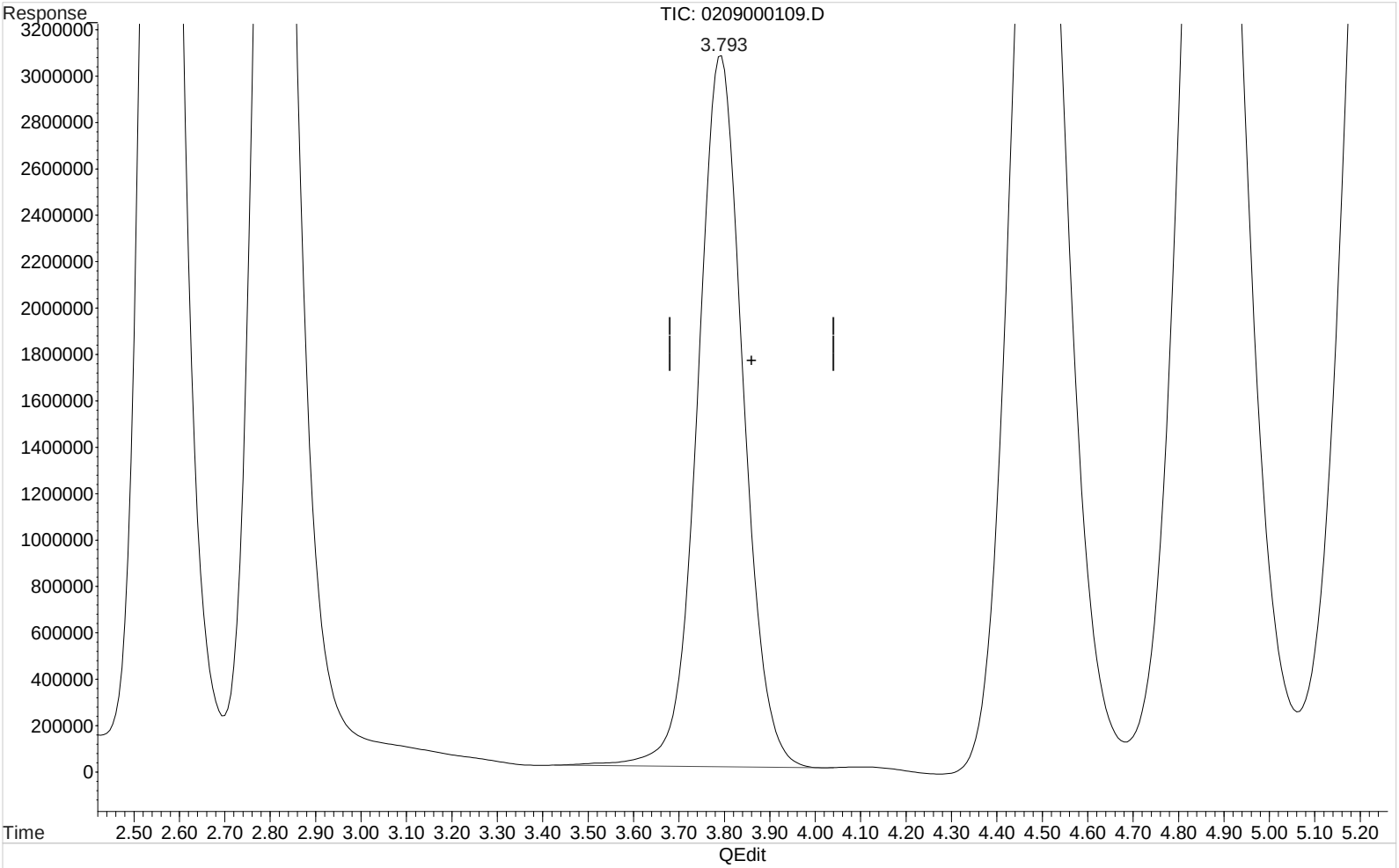
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:01 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:26:45 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.793min 1016.282 ug/L m

response 21356542

Manual Integration:

After

BLC

02/10/17

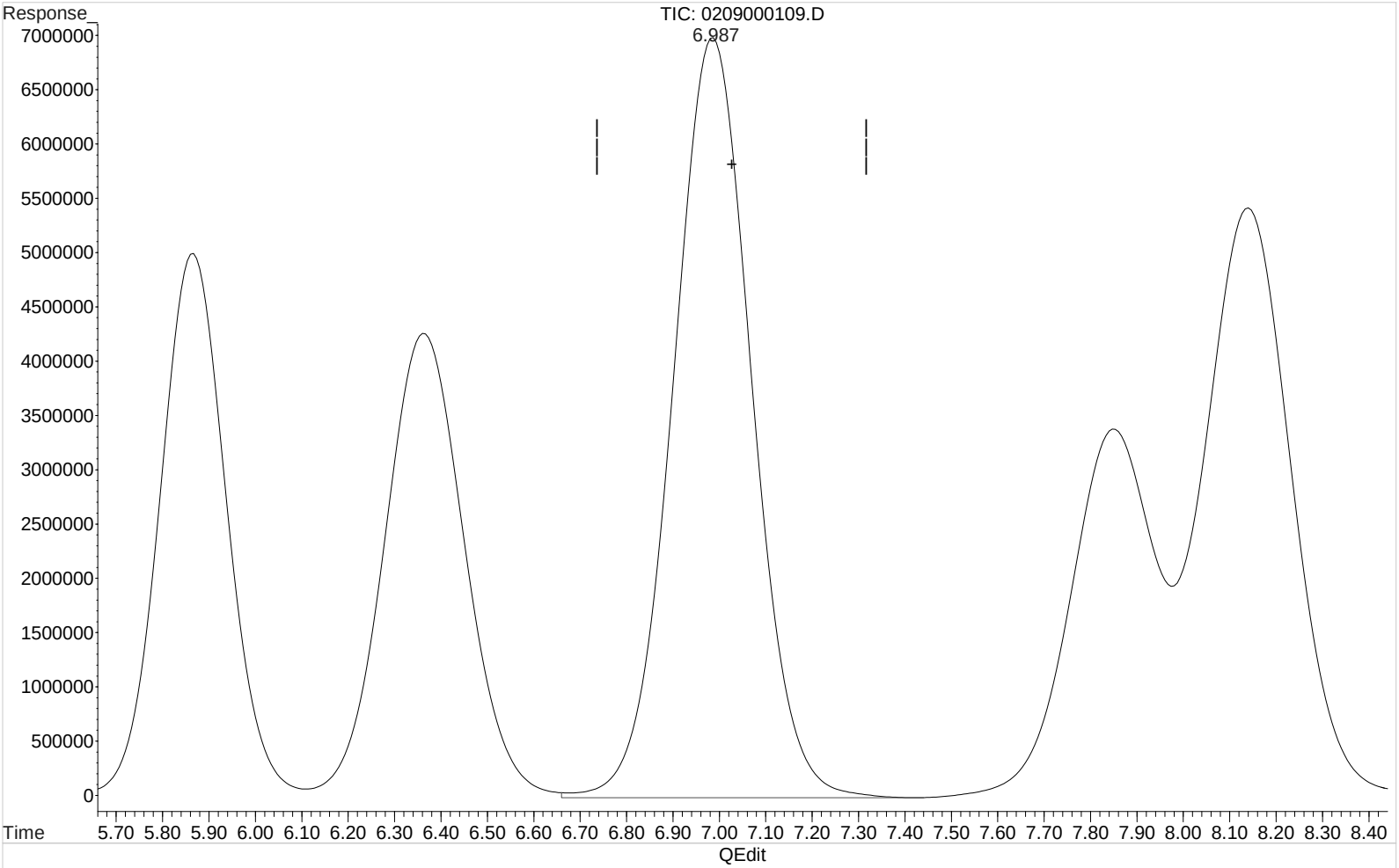
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:01 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:26:45 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.987min 1031.524 ug/L

response 83009500

Manual Integration:

Before

02/10/17

(+) = Expected Retention Time

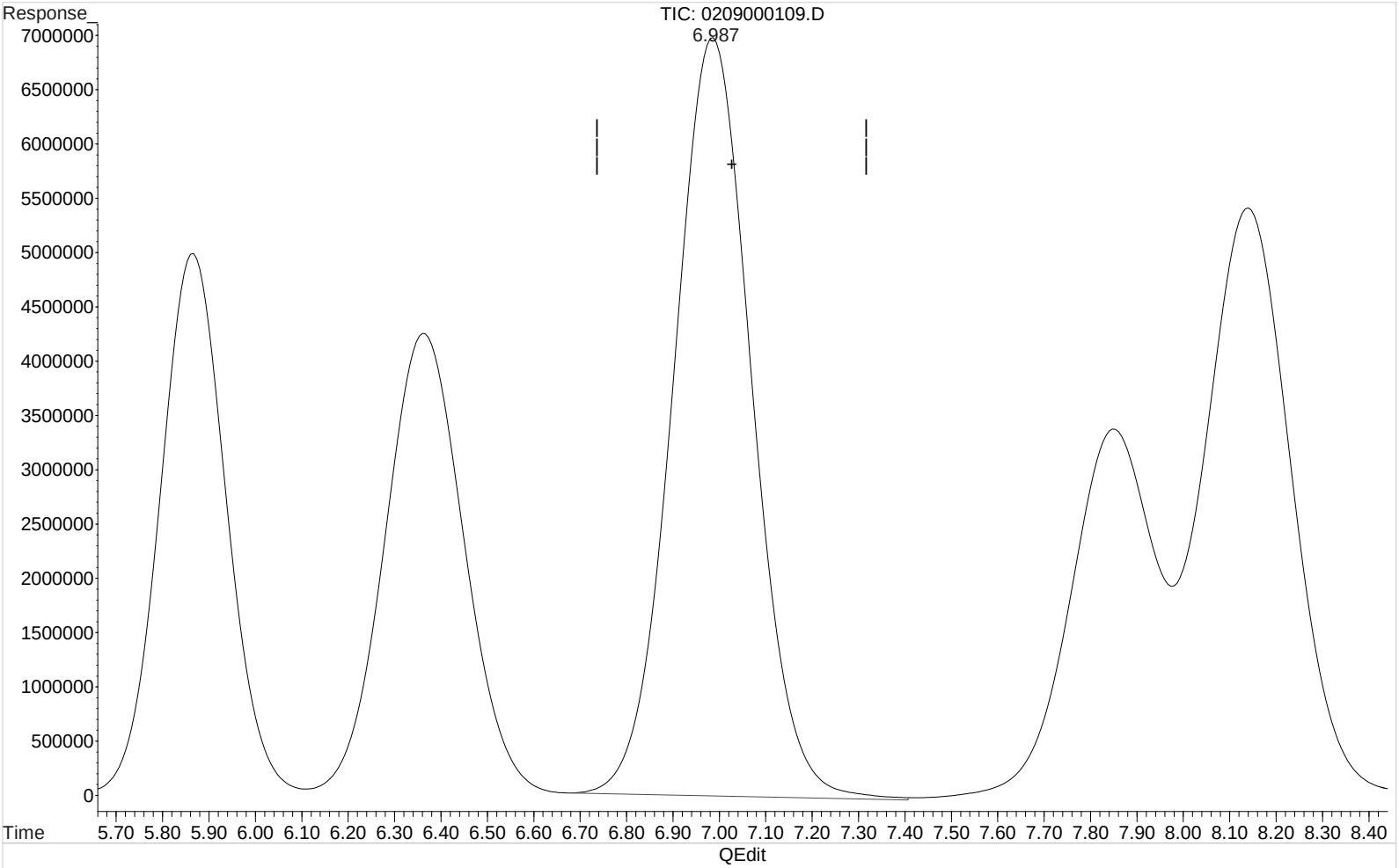
020917_Short_8330B@210.M Fri Feb 10 10:27:18 2017 Page: 1

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:01 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:26:45 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.987min 1025.070 ug/L m

response 82490148

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:26:26 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	8.140	139414192	2004.492	ug/L	m
Target Compounds						
1) T	Nitroglycerin	3.793	42551590	2033.310	ug/L	m
2) T	PETN	6.987	162597336	2027.466	ug/L	m

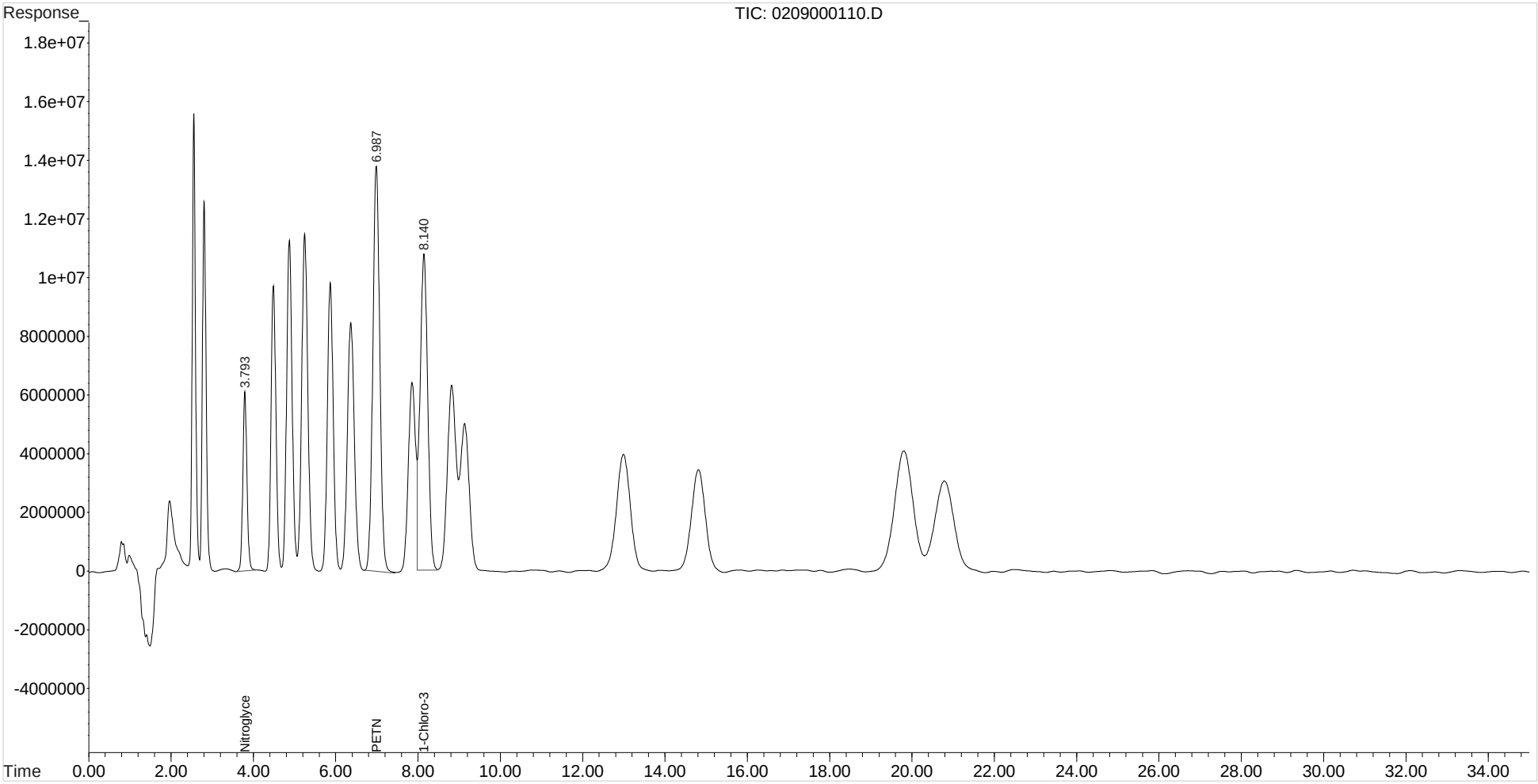
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:26:26 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

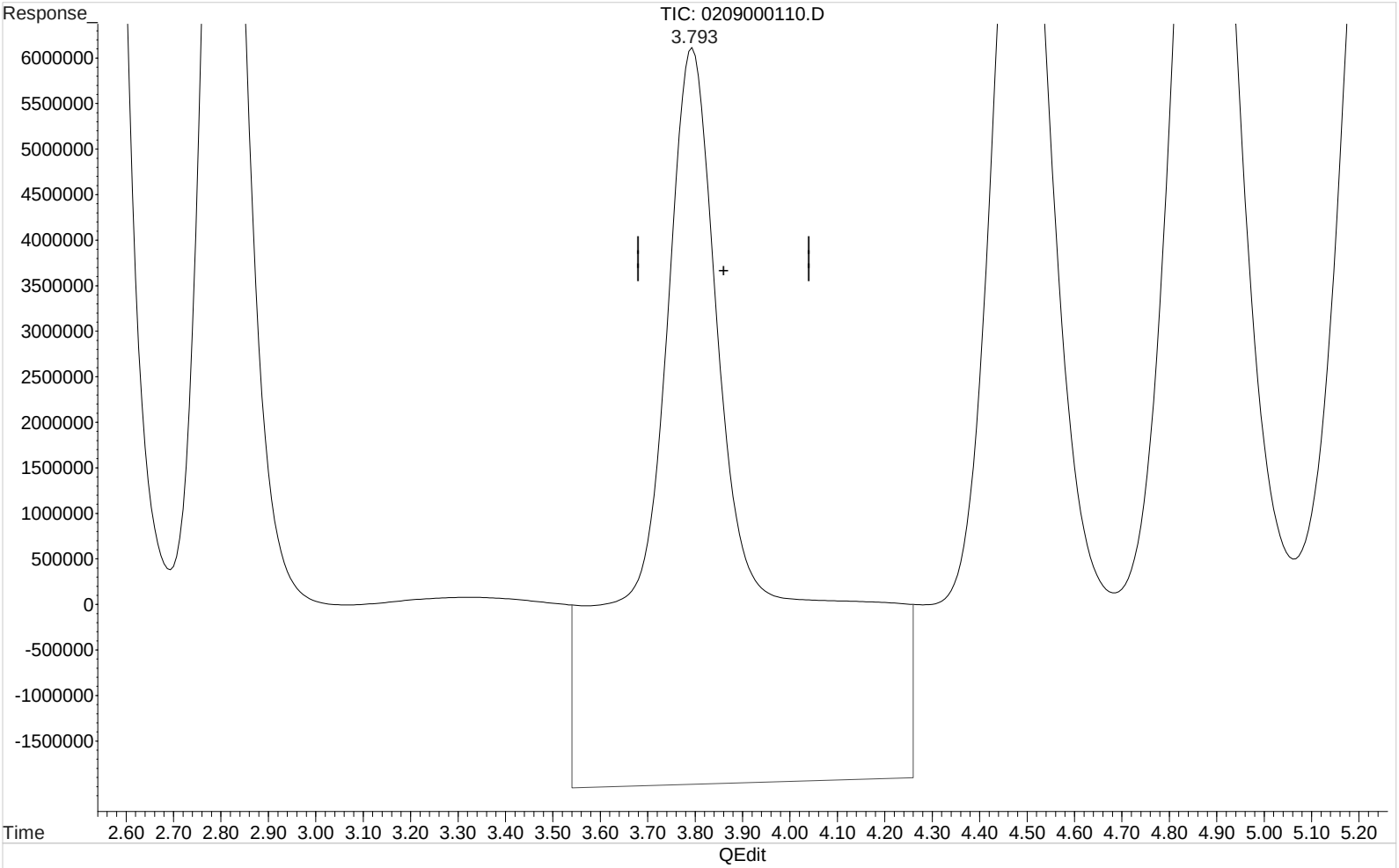


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:58 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.793min 6103.062 ug/L

response 127720293

Manual Integration:

Before

02/10/17

(+) = Expected Retention Time

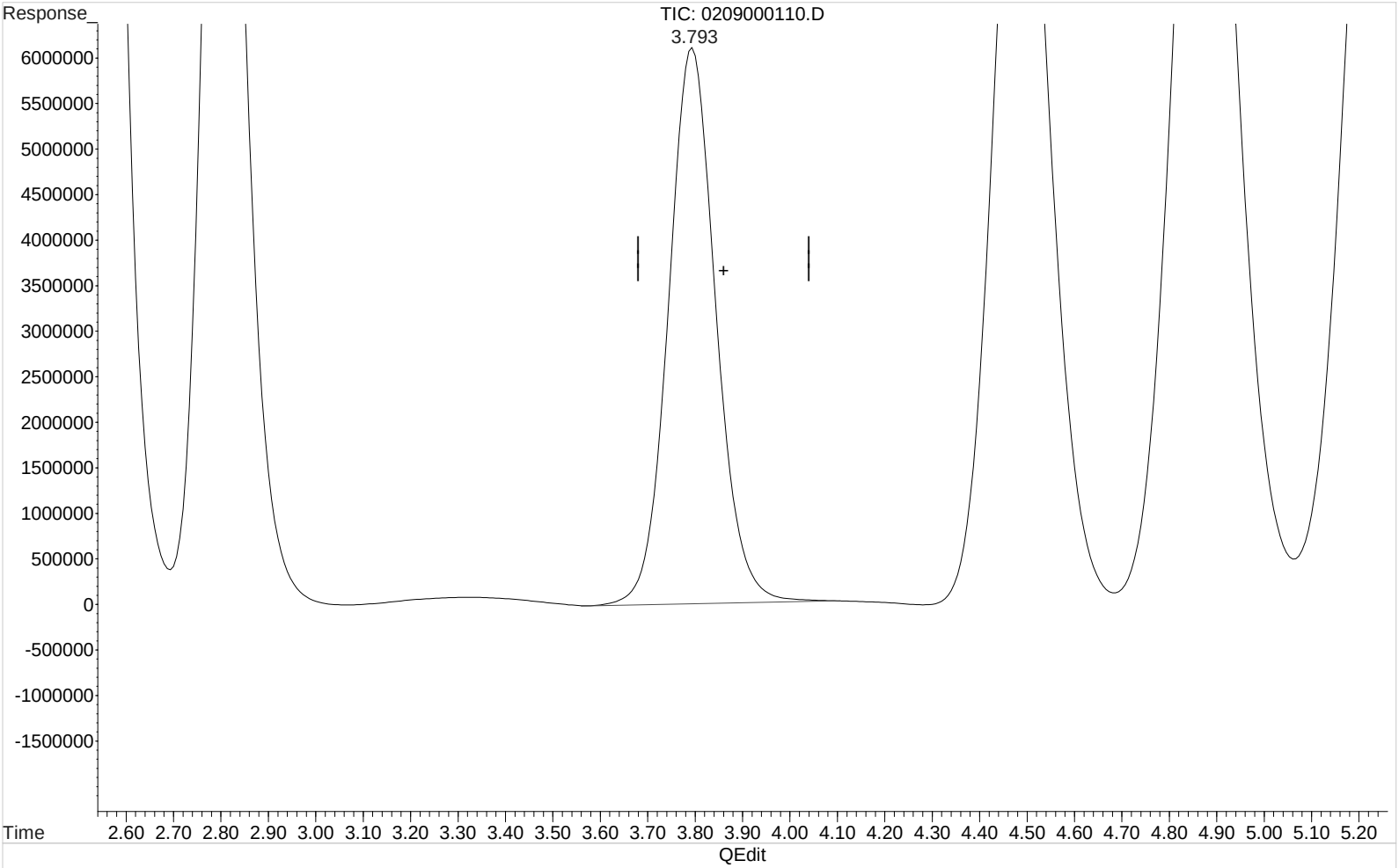
020917_Short_8330B@210.M Fri Feb 10 10:26:01 2017 Page: 1

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:58 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.793min 2033.310 ug/L m

response 42551590

Manual Integration:

After

BLC

02/10/17

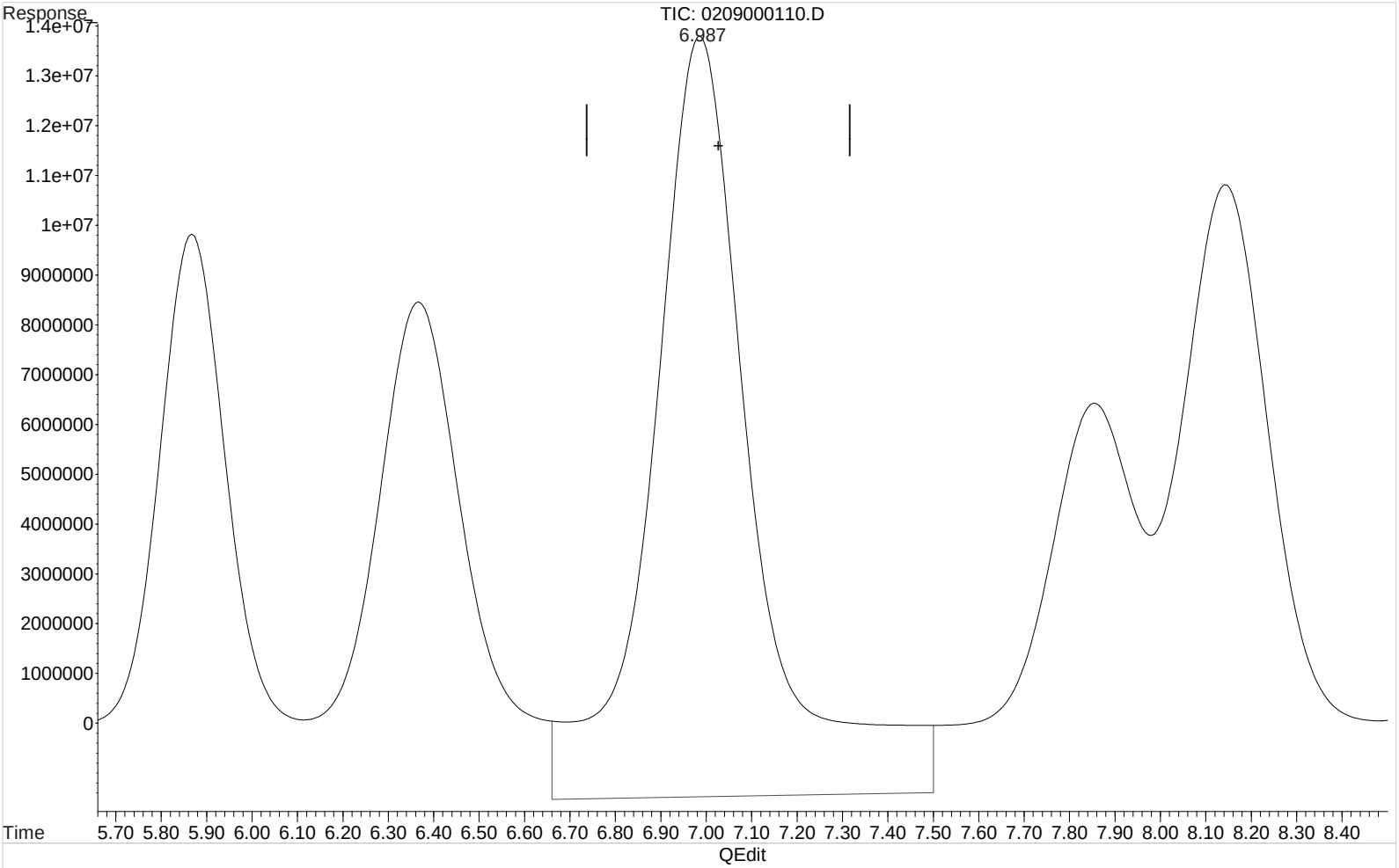
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:58 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.987min 2934.380 ug/L

response 235329399

Manual Integration:

Before

02/10/17

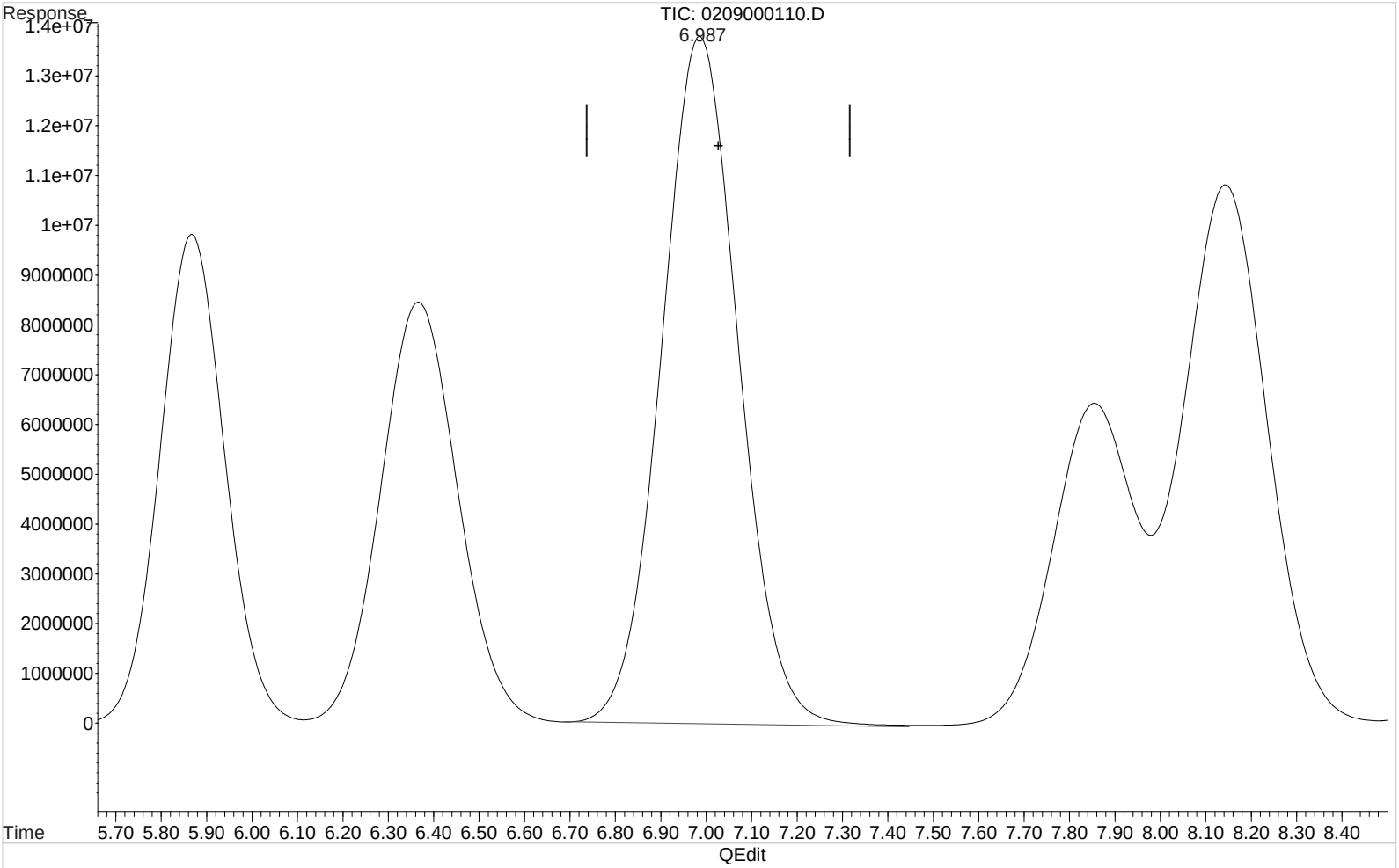
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:58 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.987min 2027.466 ug/L m

response 162597336

Manual Integration:

After

BLC

02/10/17

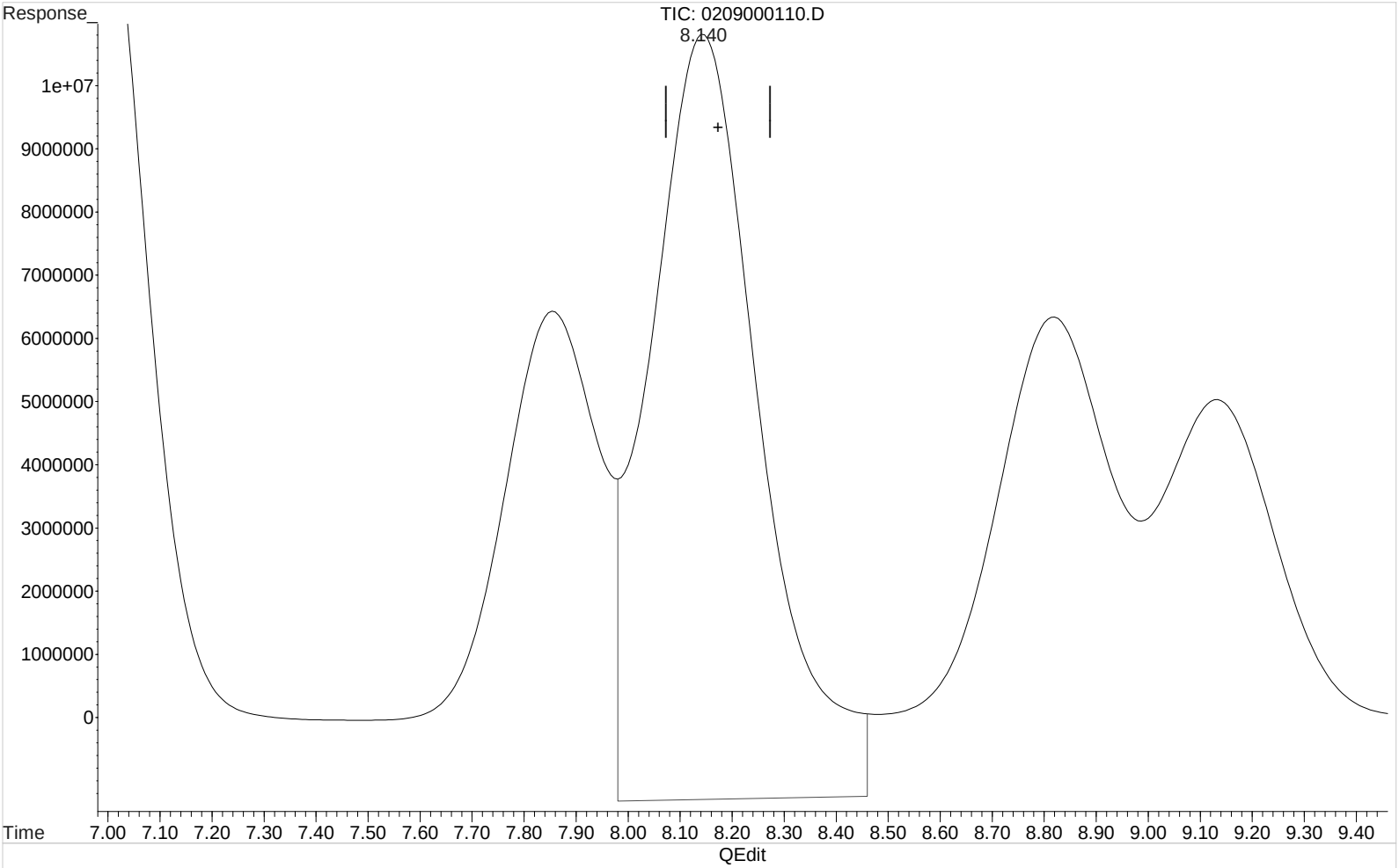
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:58 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.140min 2549.905 ug/L

response 177348124

Manual Integration:

Before

02/10/17

(+) = Expected Retention Time

020917_Short_8330B@210.M Fri Feb 10 10:26:22 2017 Page: 1

(b) (6)

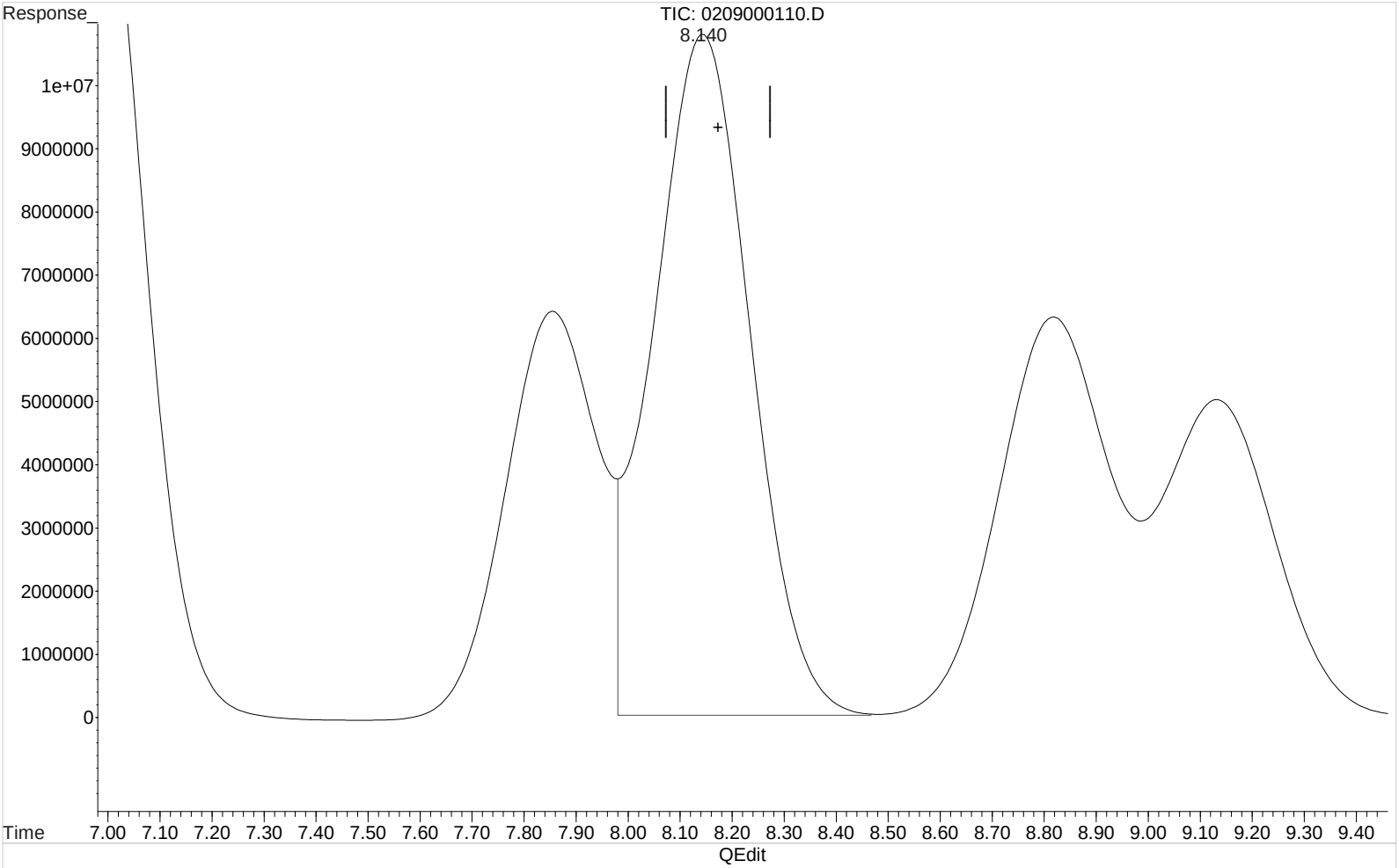
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:58 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.140min 2004.492 ug/L m

response 139414192

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000111.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:40 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:08 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	8.147	351298284	5076.822	ug/L	
Target Compounds						
1) T	Nitroglycerin	3.787	104644653	5000.603	ug/L	m
2) T	PETN	6.987	405313182	5081.362	ug/L	m

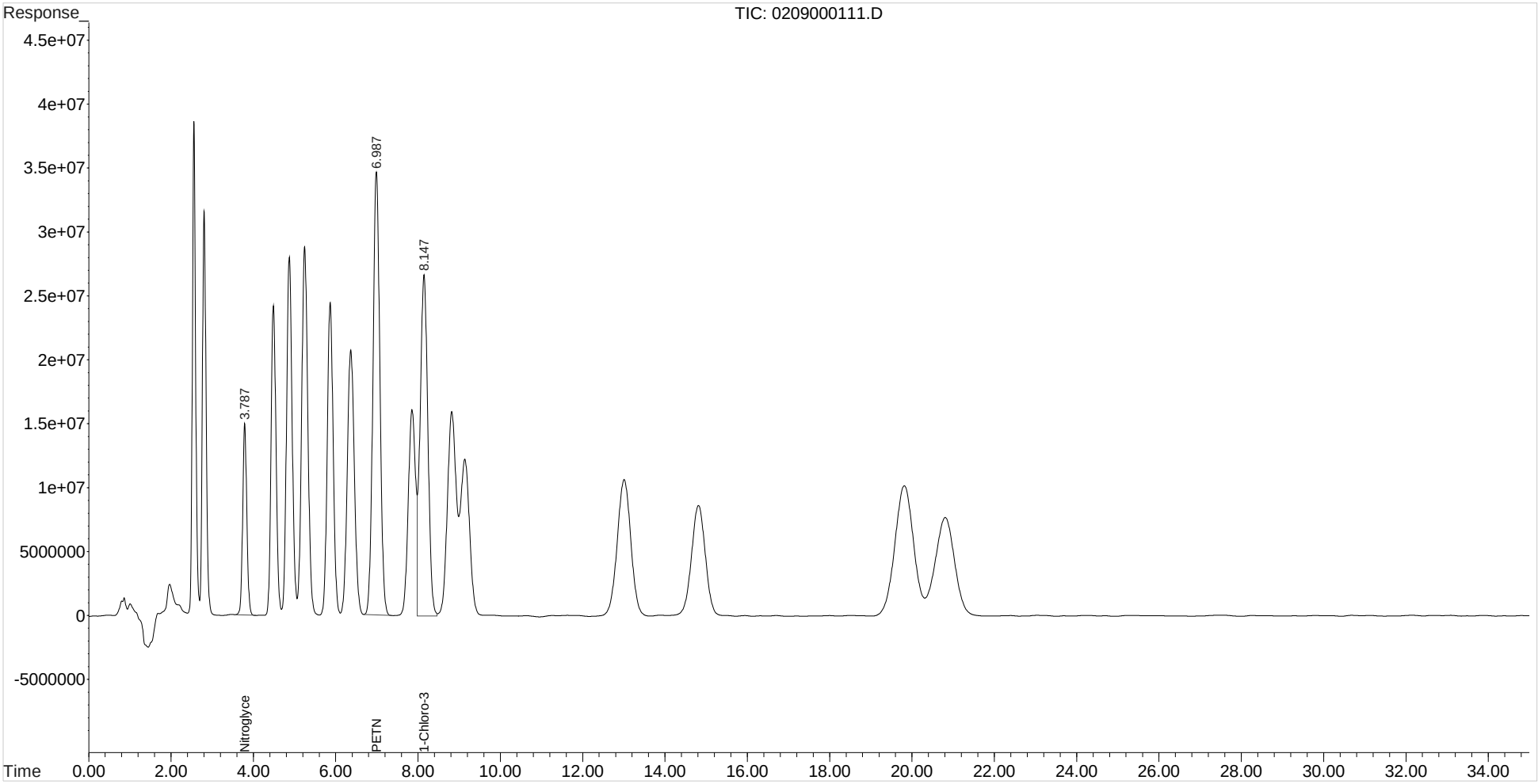
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000111.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:40 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:08 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

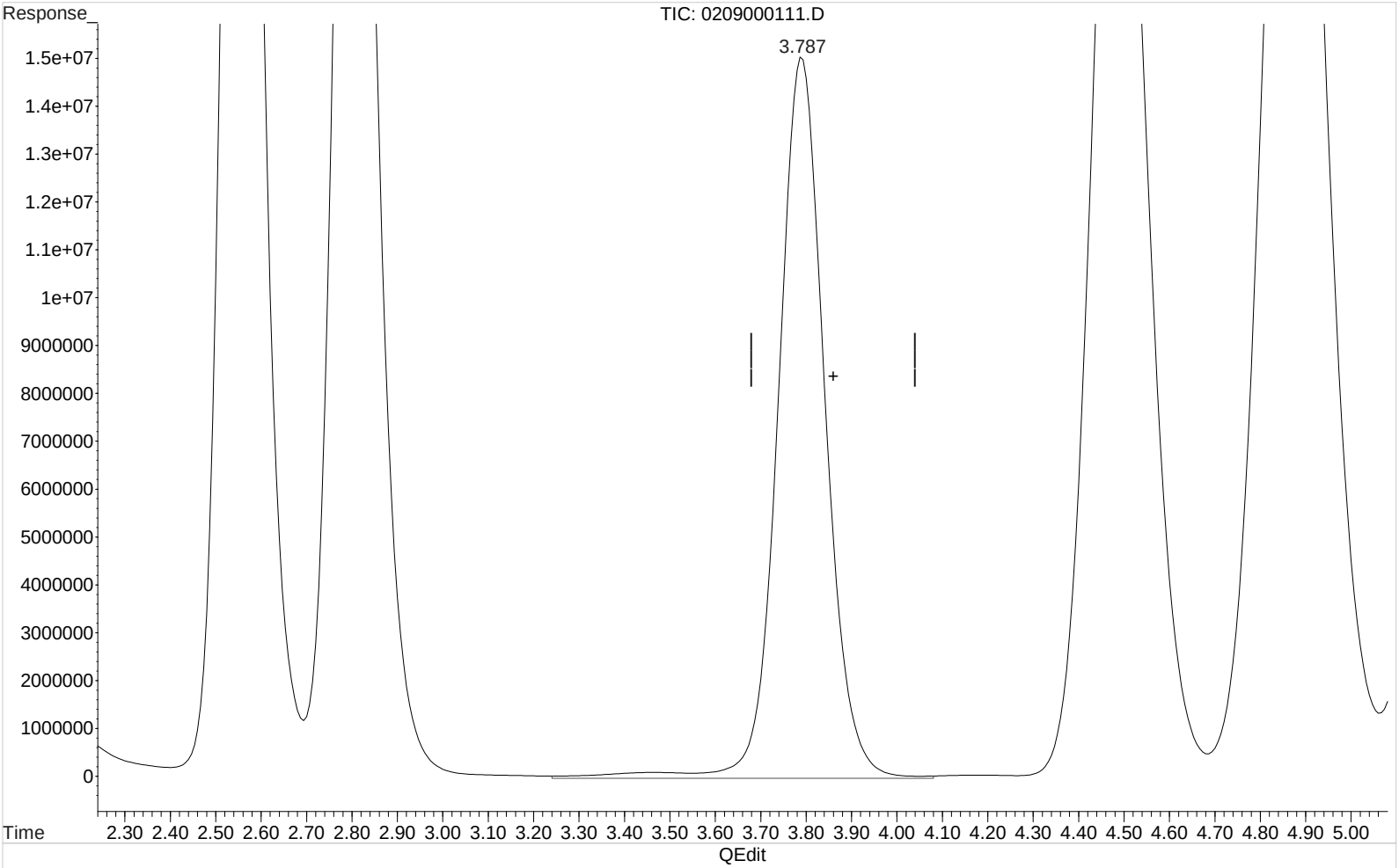


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000111.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:08 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.787min 5213.557 ug/L

response 109101011

Manual Integration:

Before

02/10/17

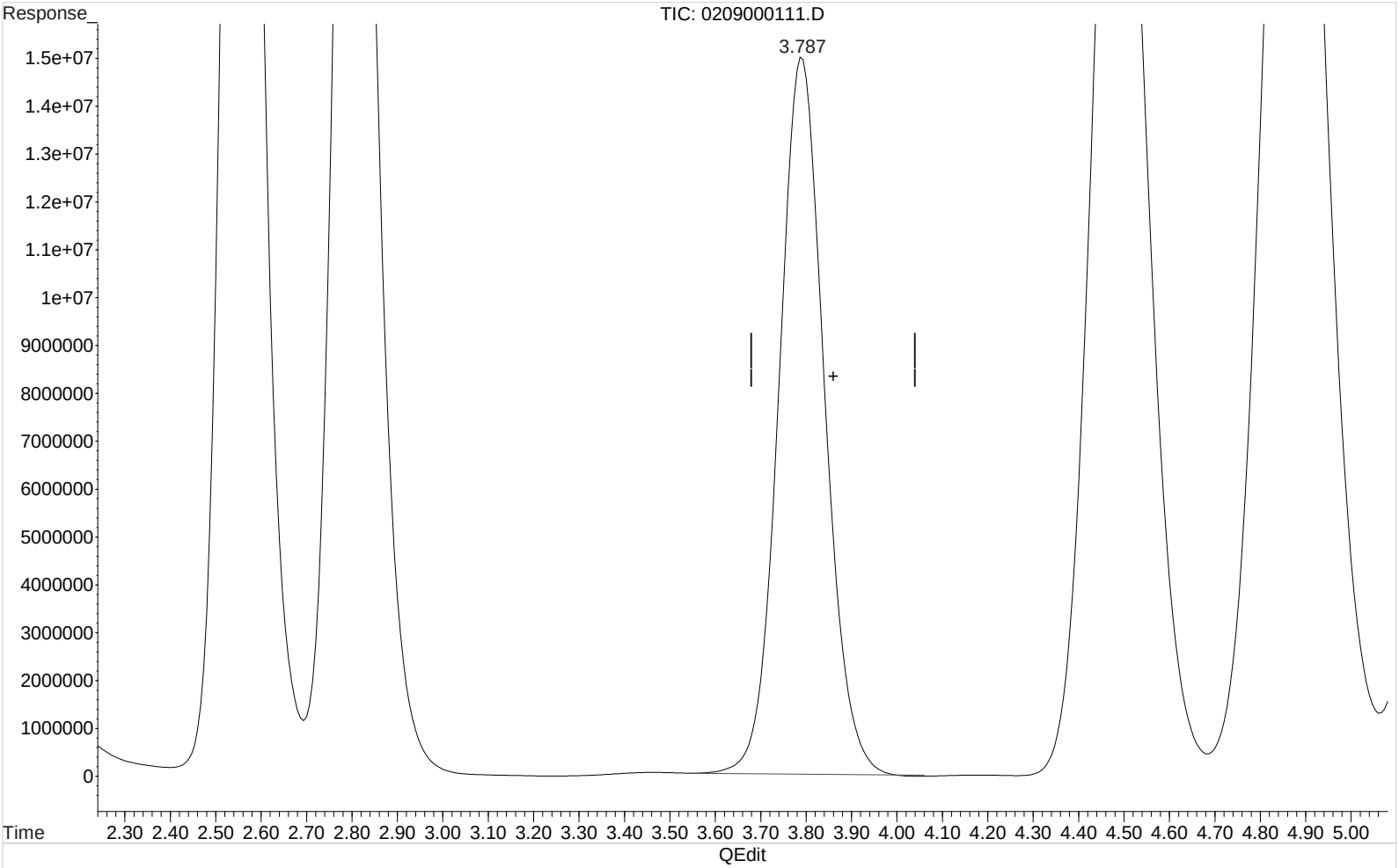
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000111.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:08 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.787min 5000.603 ug/L m

response 104644653

Manual Integration:

After

BLC

02/10/17

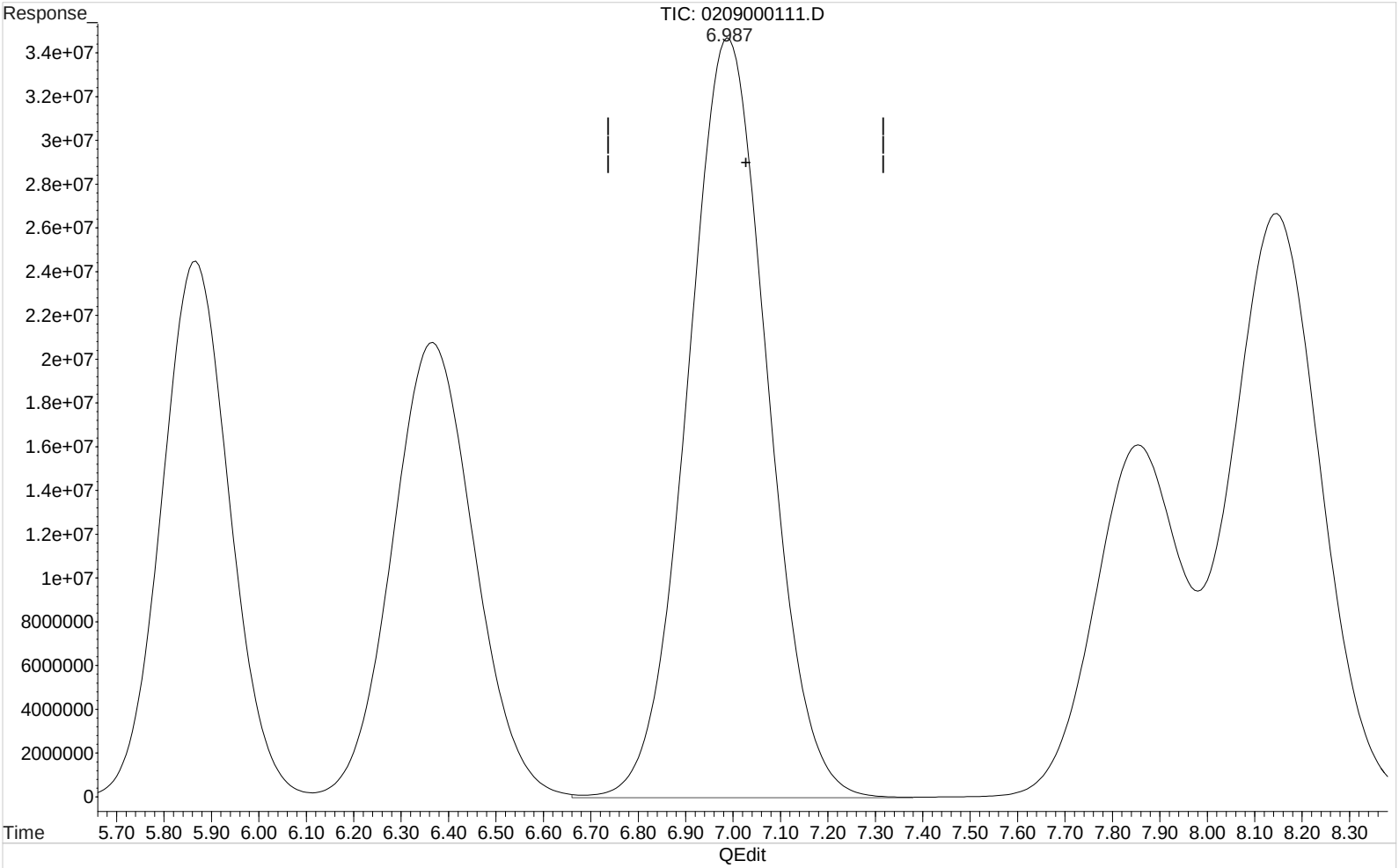
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000111.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:08 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.987min 5129.172 ug/L

response 409126699

Manual Integration:

Before

02/10/17

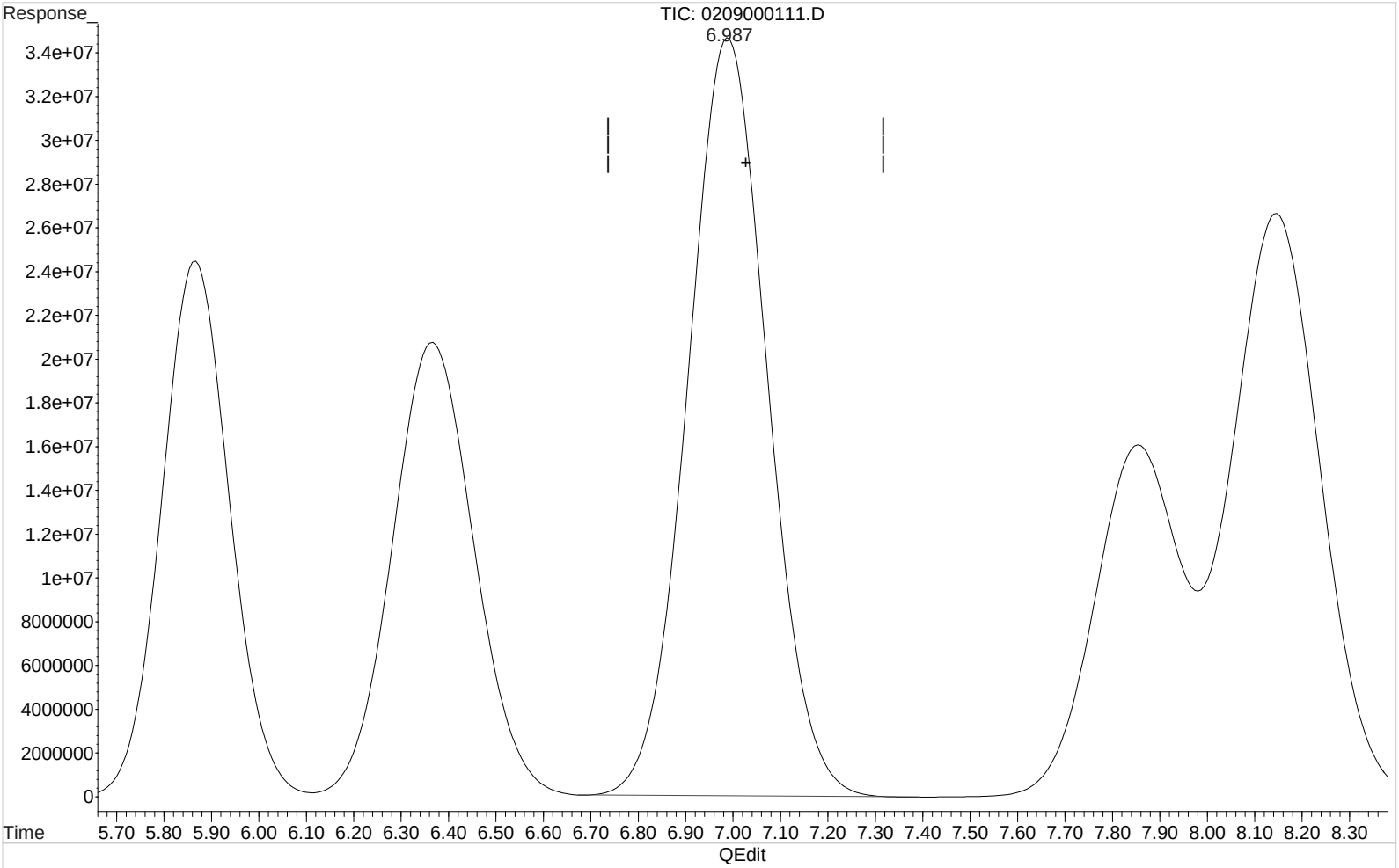
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000111.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:08 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.987min 5081.362 ug/L m

response 405313182

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

020917_Short_8330B@210.M Fri Feb 10 10:25:41 2017 Page: 1

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000112.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:24:52 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:24:06 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	8.147	689768693	9936.722	ug/L	
Target Compounds						
1) T	Nitroglycerin	3.793	210346801	10104.020	ug/L	m
2) T	PETN	6.987	805997758	10211.609	ug/L	m

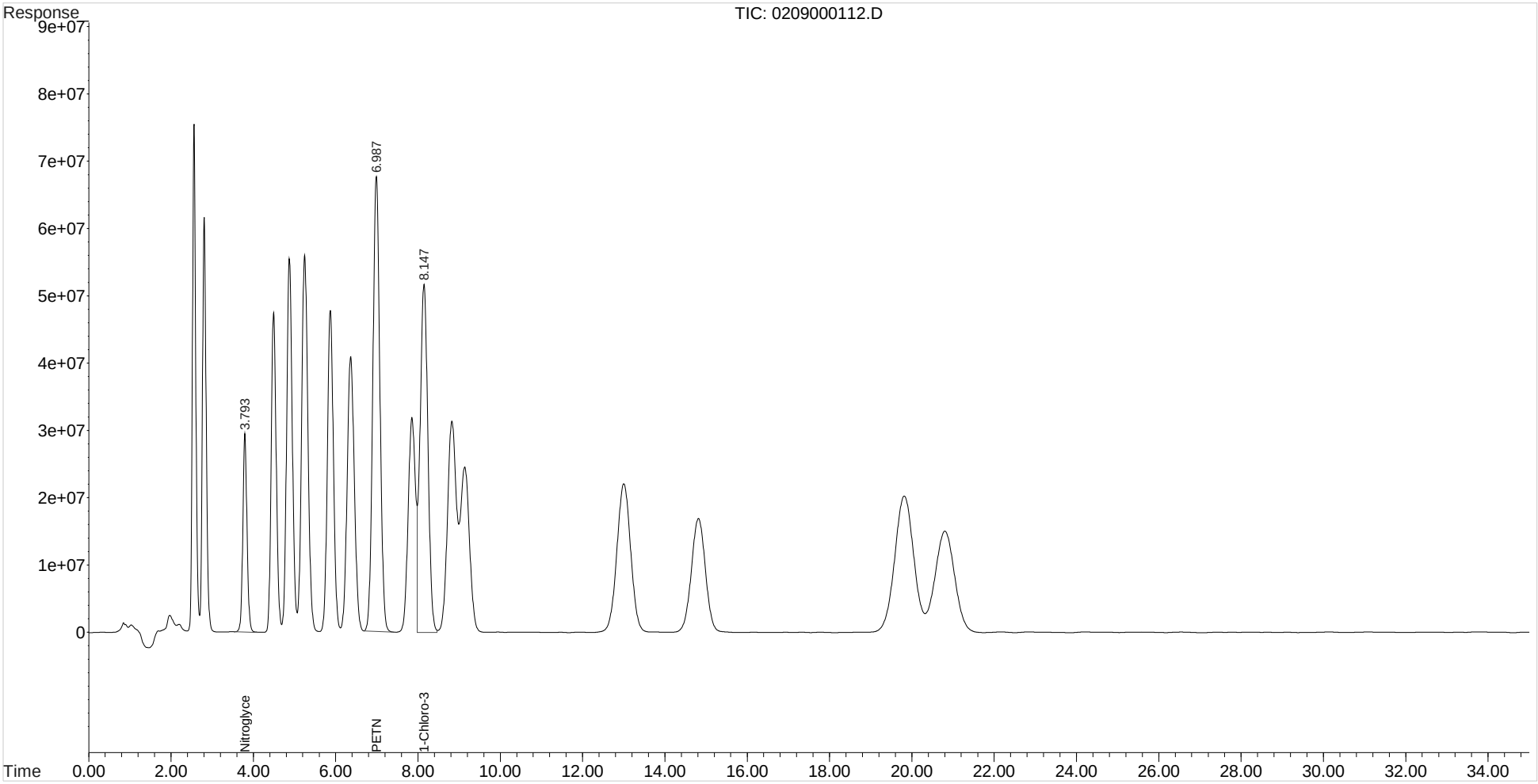
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000112.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:24:52 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:24:06 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

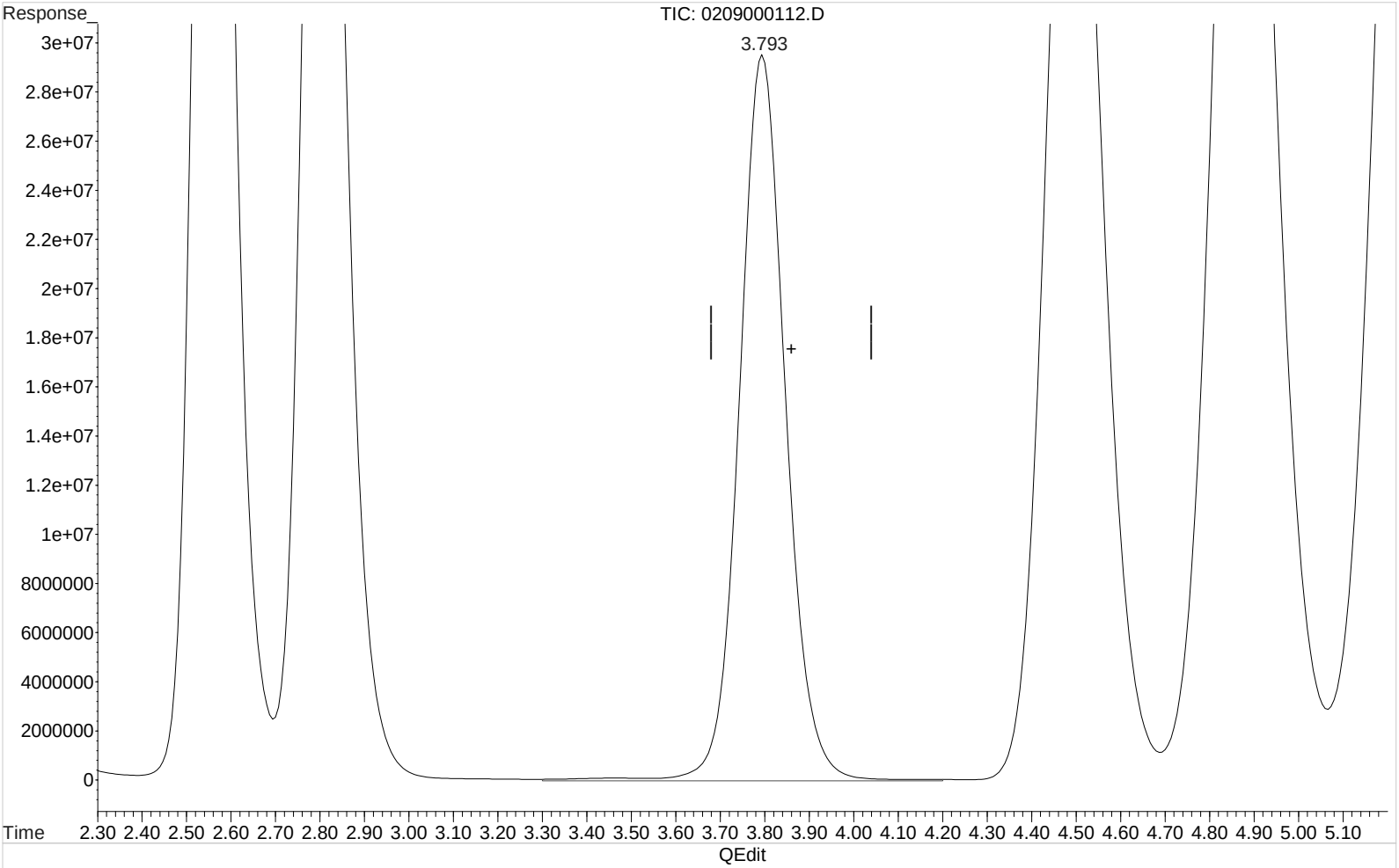


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000112.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:24:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:24:06 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.793min 10277.587 ug/L

response 213960148

Manual Integration:

Before

02/10/17

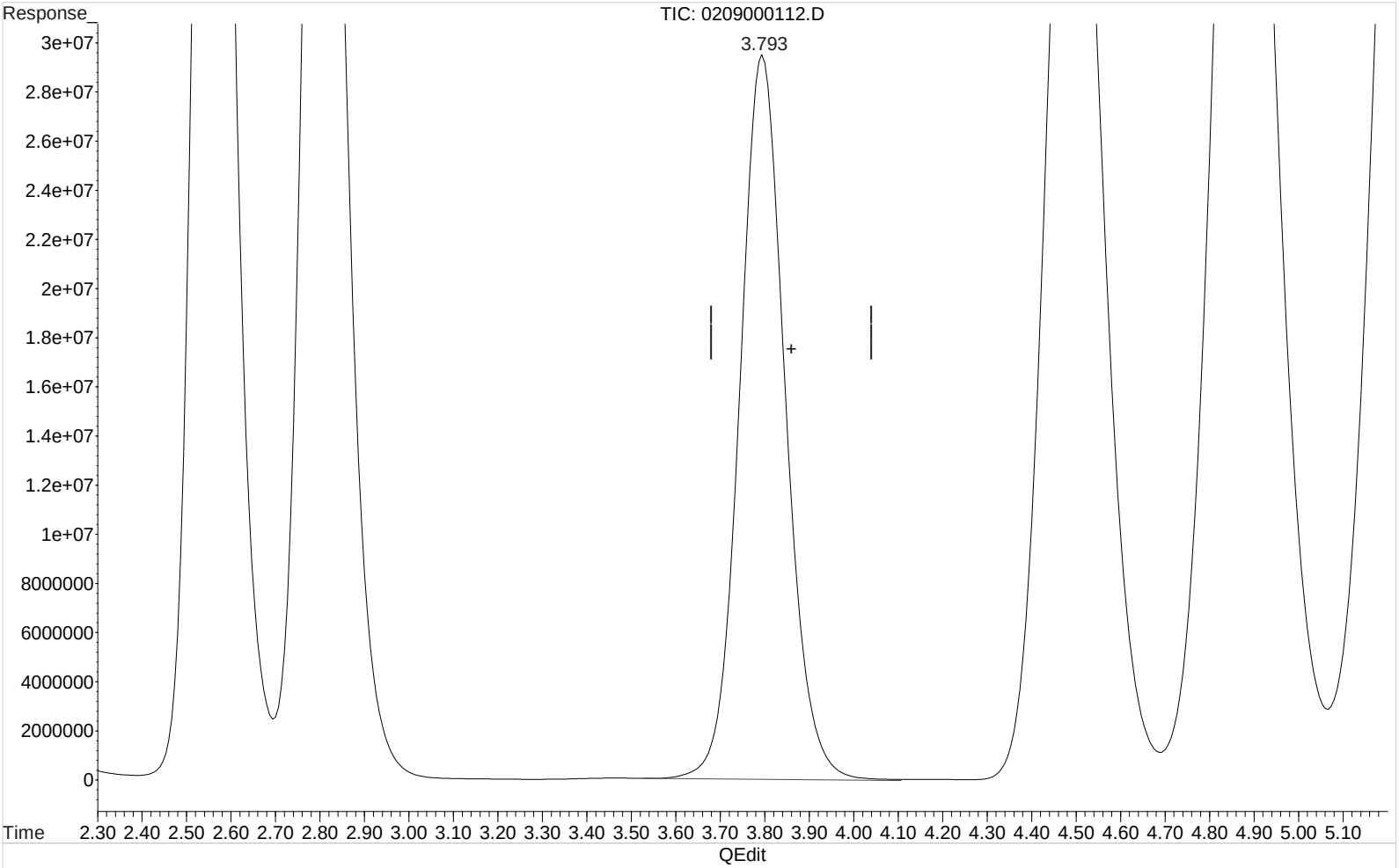
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000112.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:24:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:24:06 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.793min 10104.020 ug/L m

response 210346801

Manual Integration:

After

BLC

02/10/17

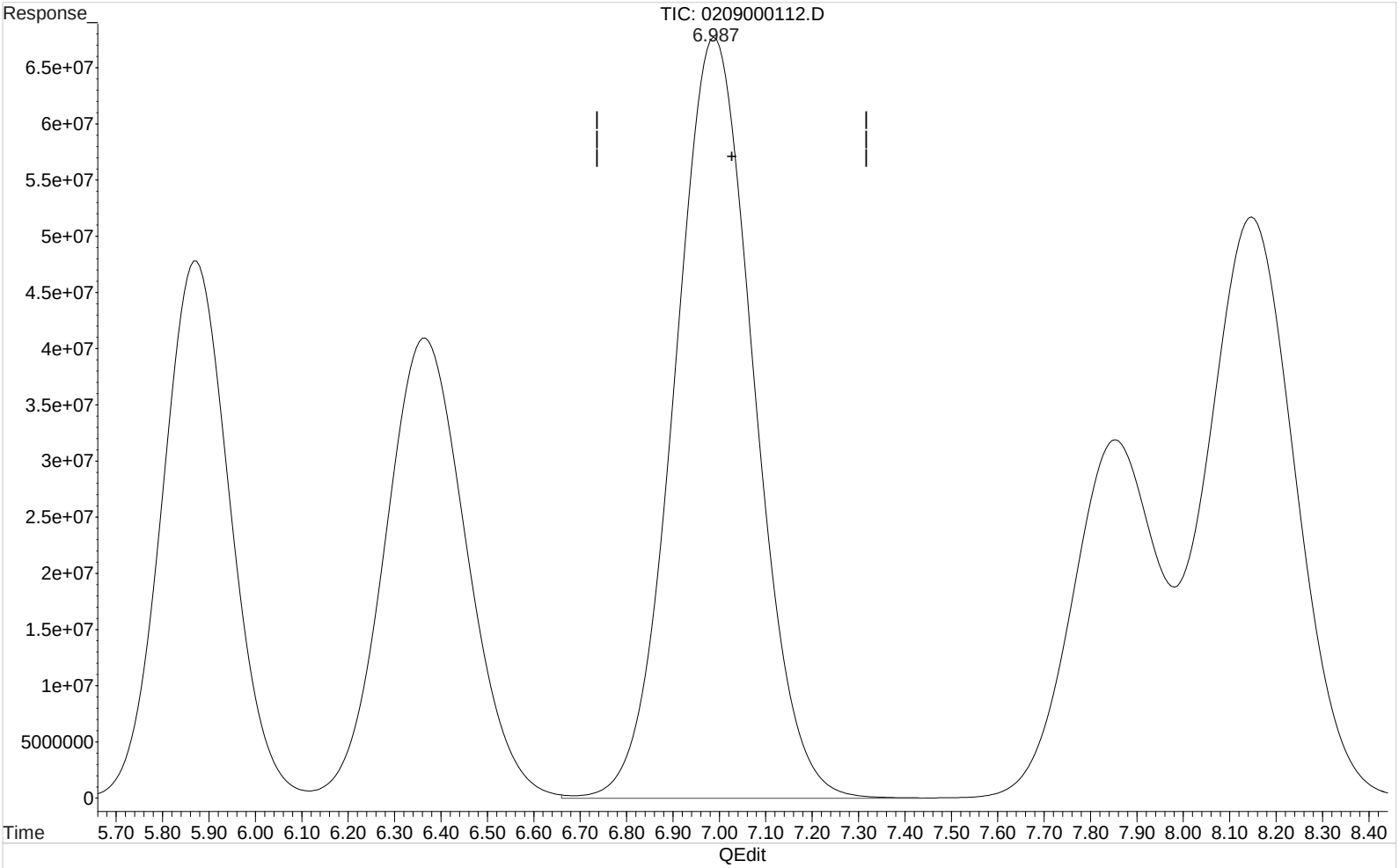
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000112.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:24:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:24:06 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.987min 10290.163 ug/L

response 812198027

Manual Integration:

Before

02/10/17

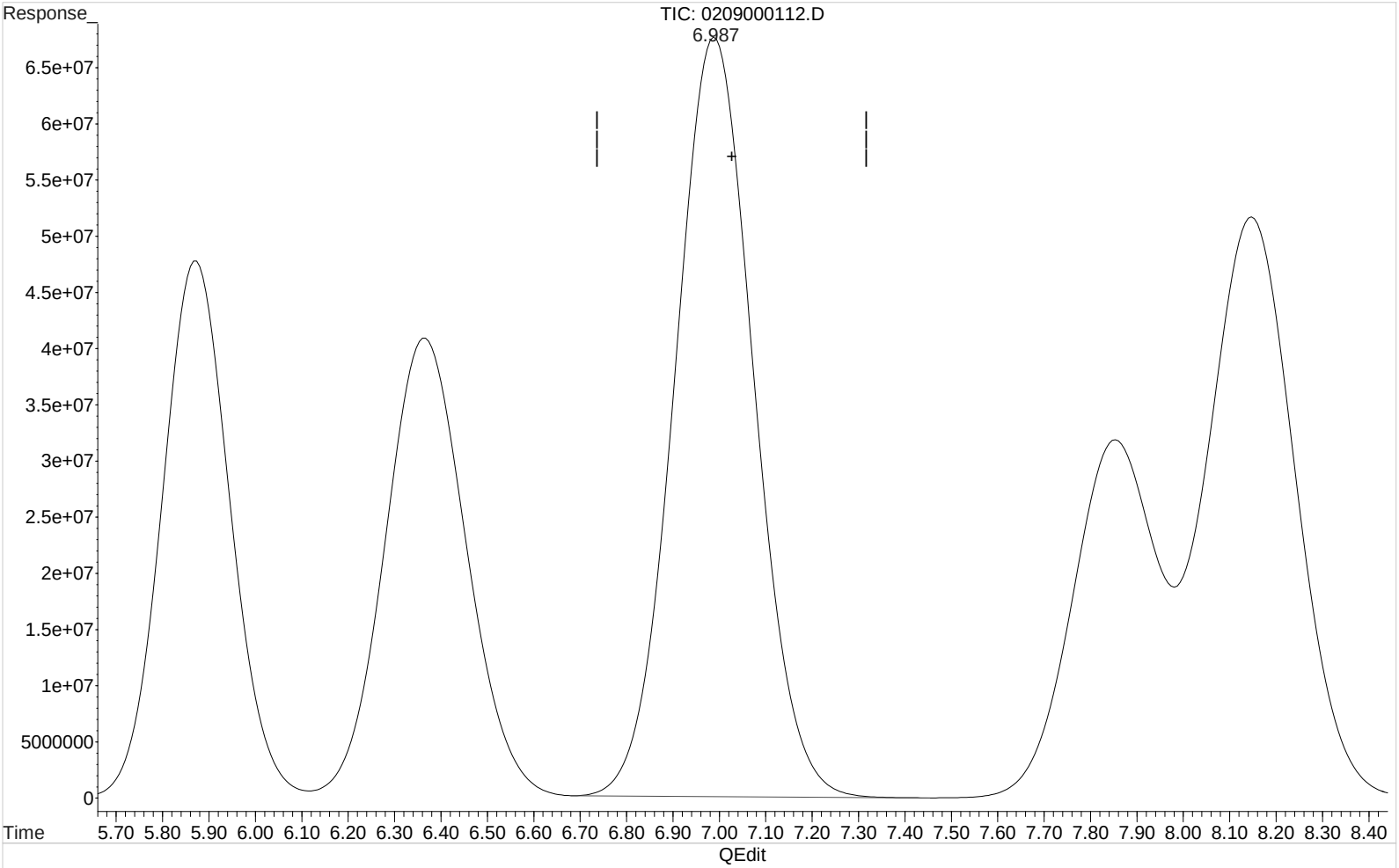
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000112.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:24:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:24:06 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.987min 10211.609 ug/L m

response 805997758

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000113.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:23:51 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:23:31 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	8.127	1388322466	NoCal	ug/L	m
Target Compounds						
1) T	Nitroglycerin	3.780	416362602	NoCal	ug/L	
2) T	PETN	6.973	1578591137	NoCal	ug/L	

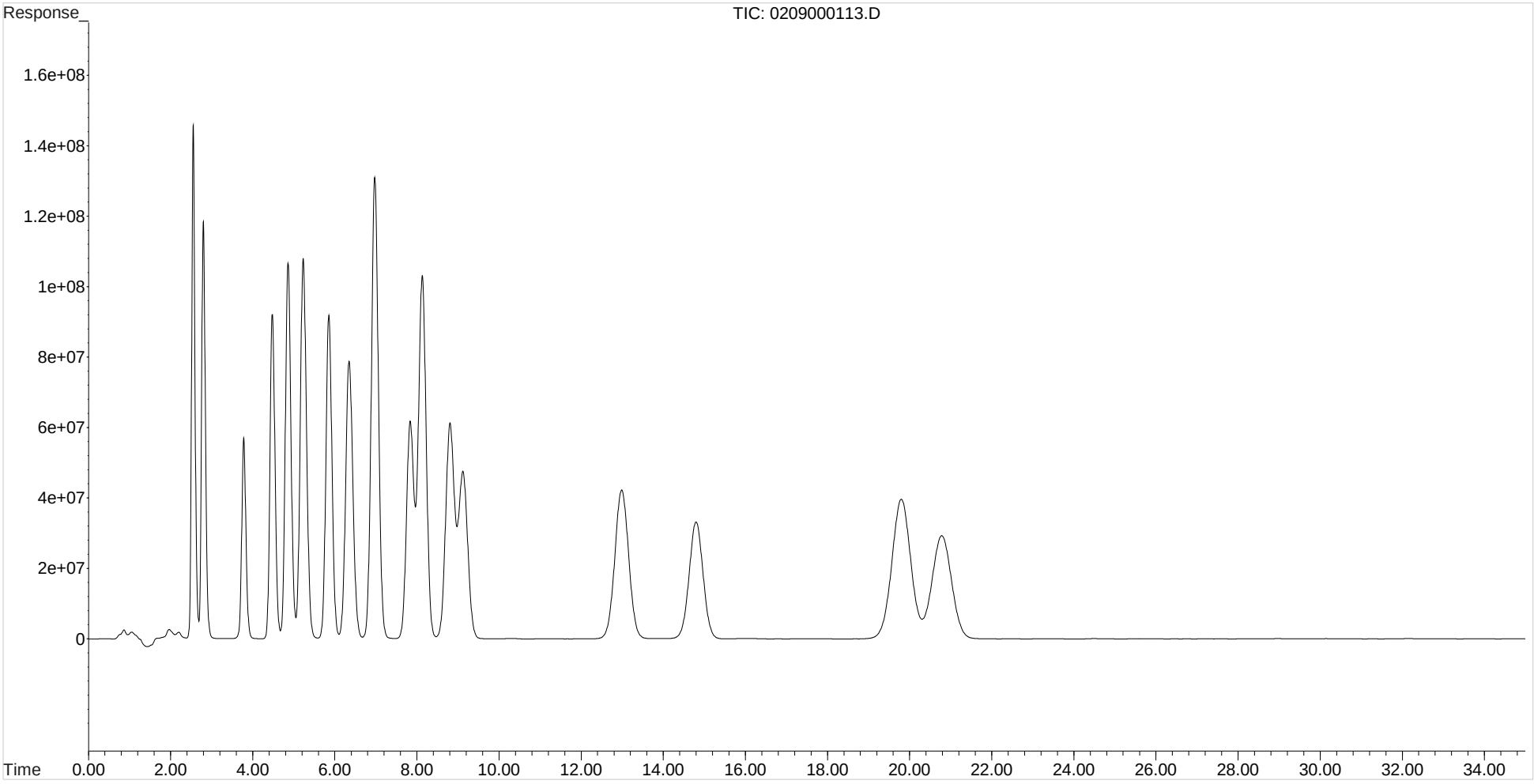
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000113.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:23:51 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:23:31 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

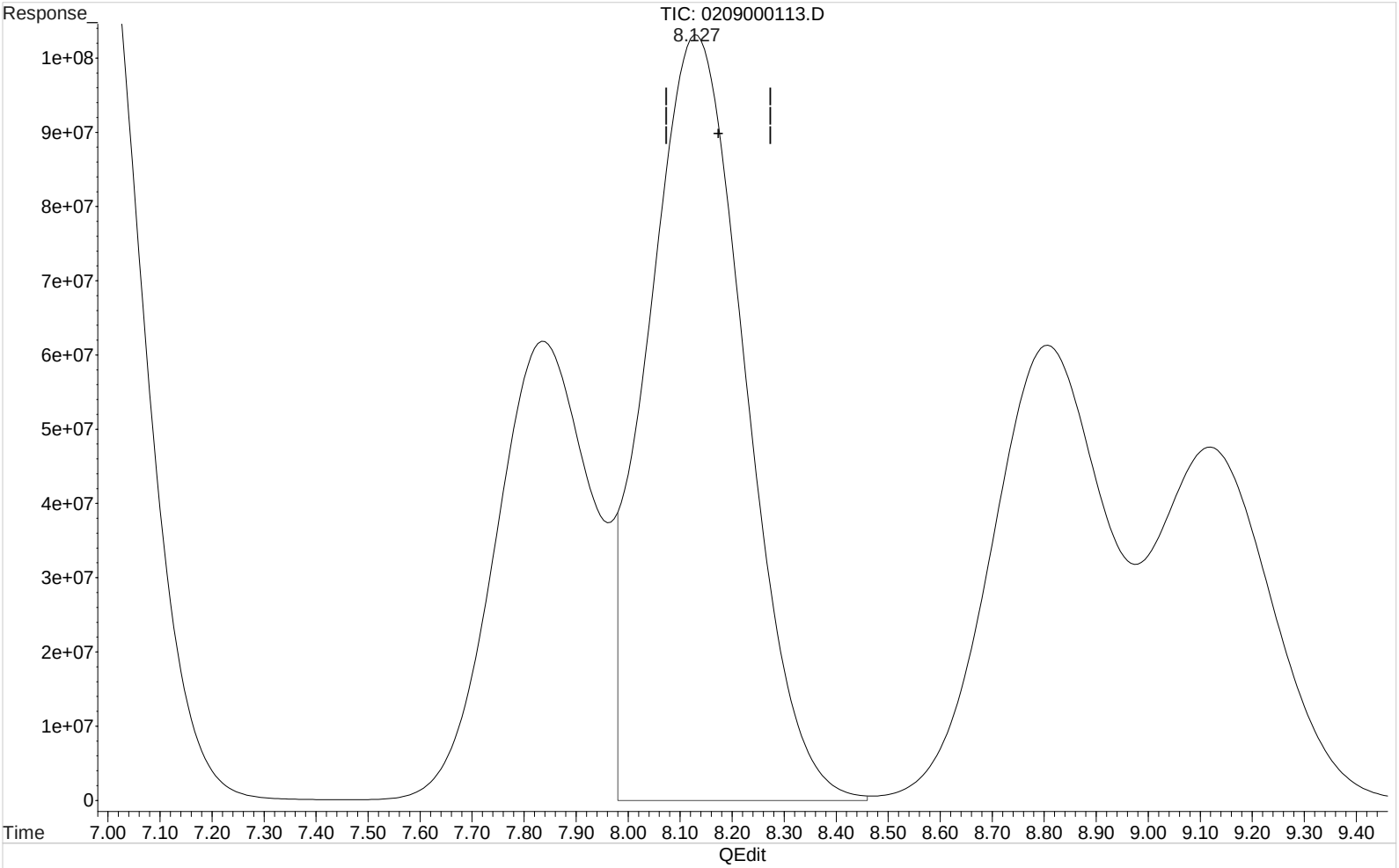


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000113.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:23:39 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:23:31 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.127min 0.000 ug/L

response 1344410632

Manual Integration:

Before

02/10/17

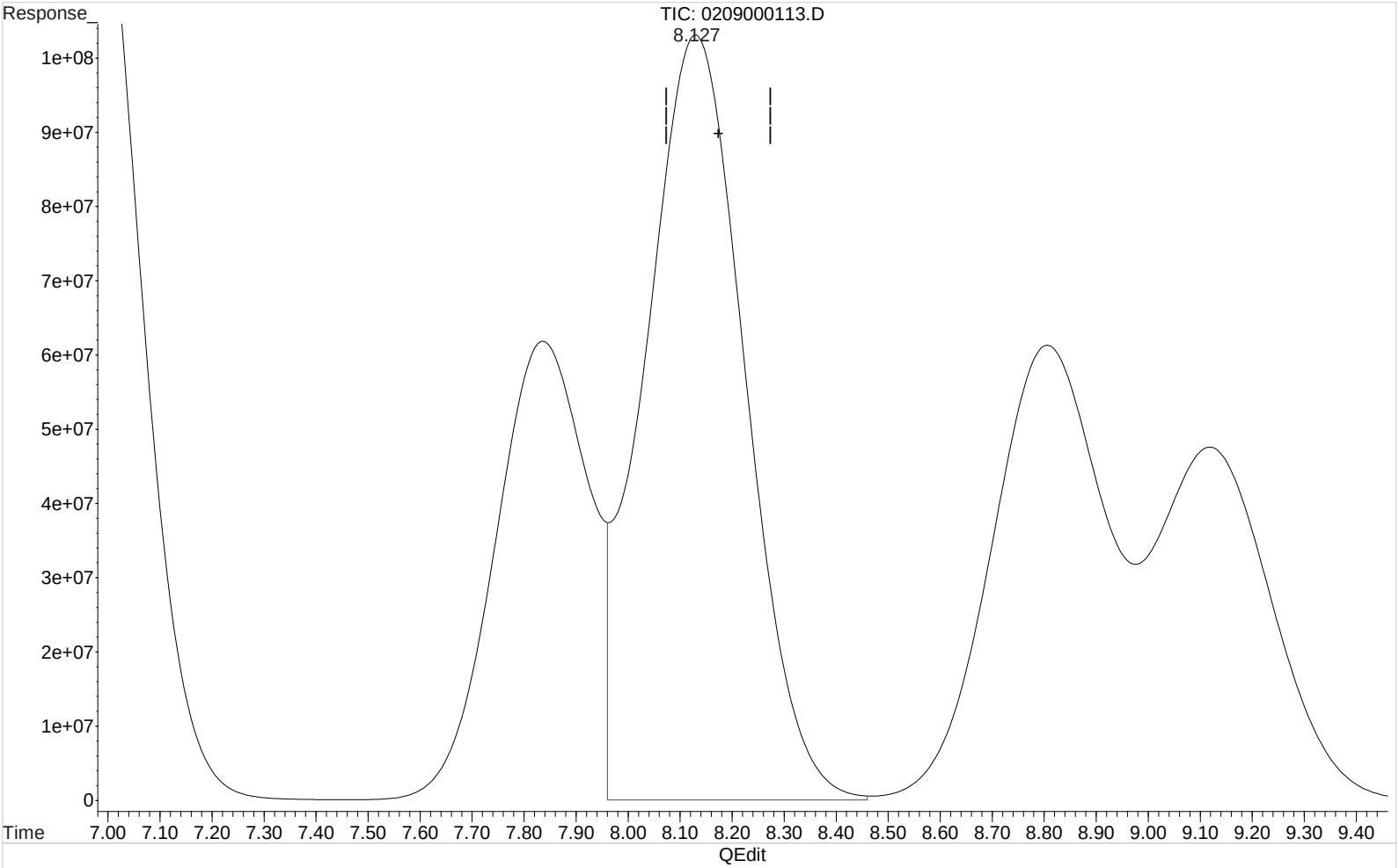
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000113.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:23:39 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:23:31 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.127min 0.000 ug/L m

response 1388322466

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000114.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 22:09:06 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:37:33 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
Target Compounds						
1) T	Nitroglycerin	0.000	0	N.D.	ug/L	
2) T	PETN	0.000	0	N.D.	ug/L	d

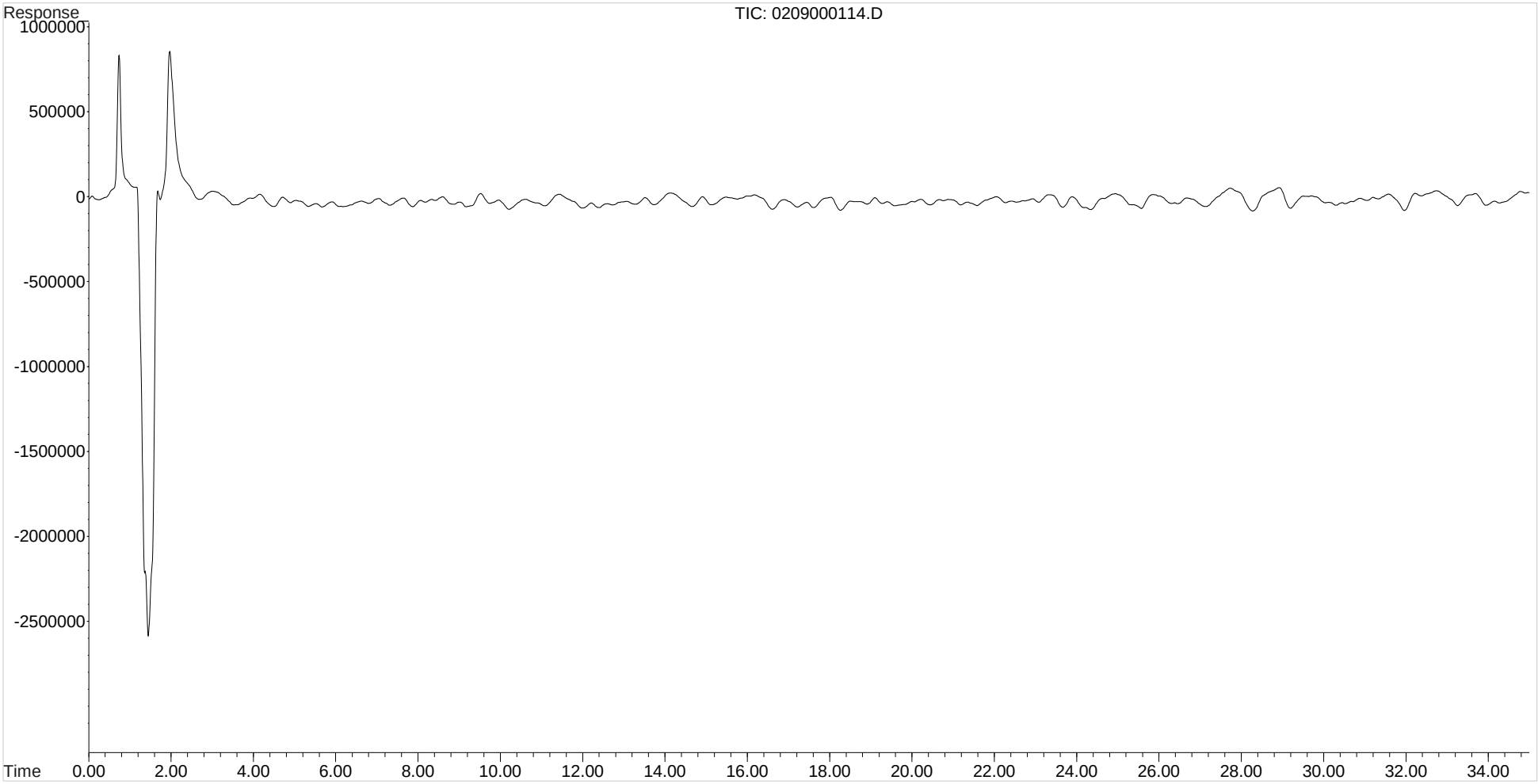
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000114.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 22:09:06 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:37:33 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000115.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:38:11 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	8.127	67923552	976.427 ug/L
Target Compounds				
1) T	Nitroglycerin	3.787	20764472	993.525 ug/L m
2) T	PETN	6.973	77460880	945.239 ug/L

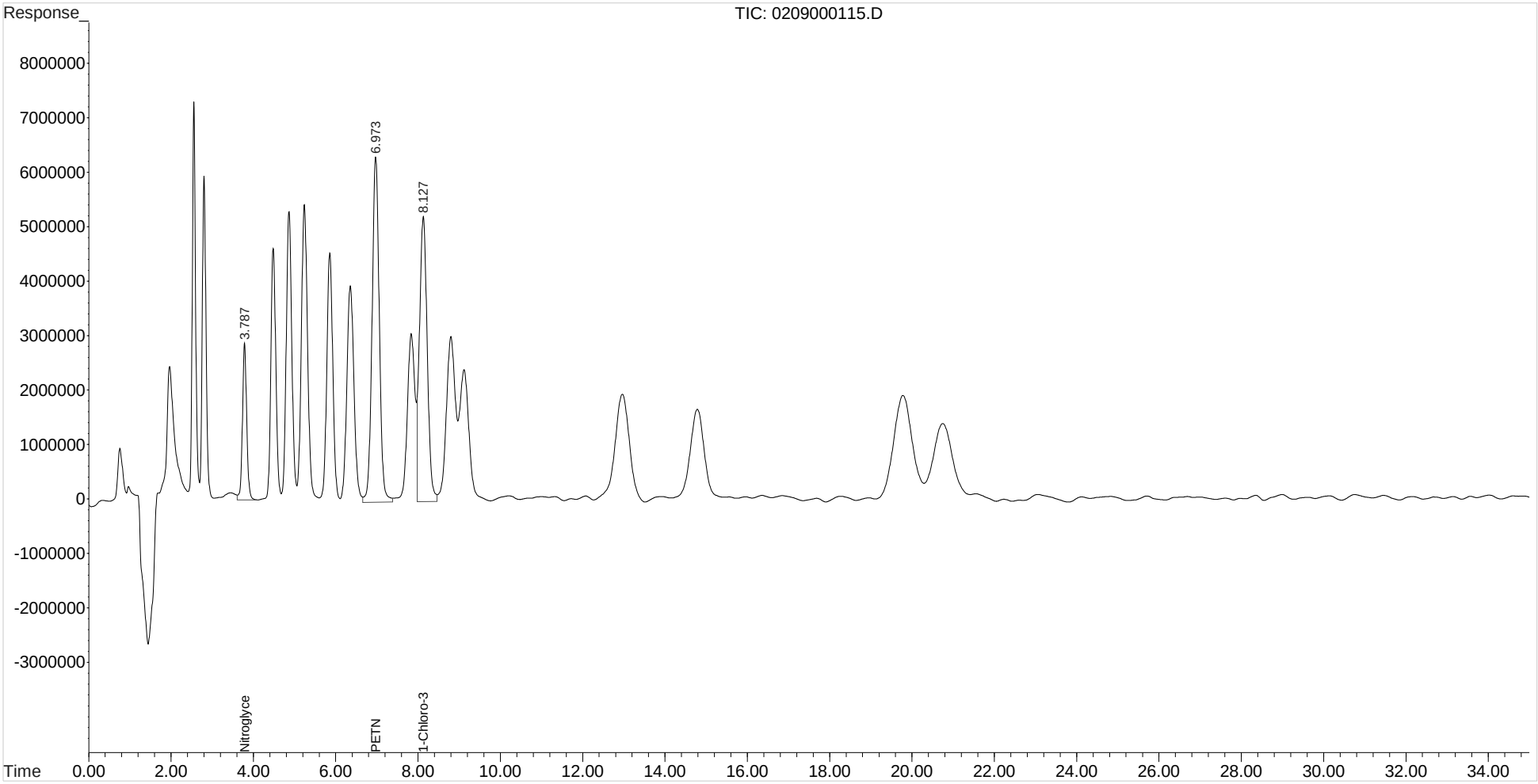
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000115.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:38:11 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

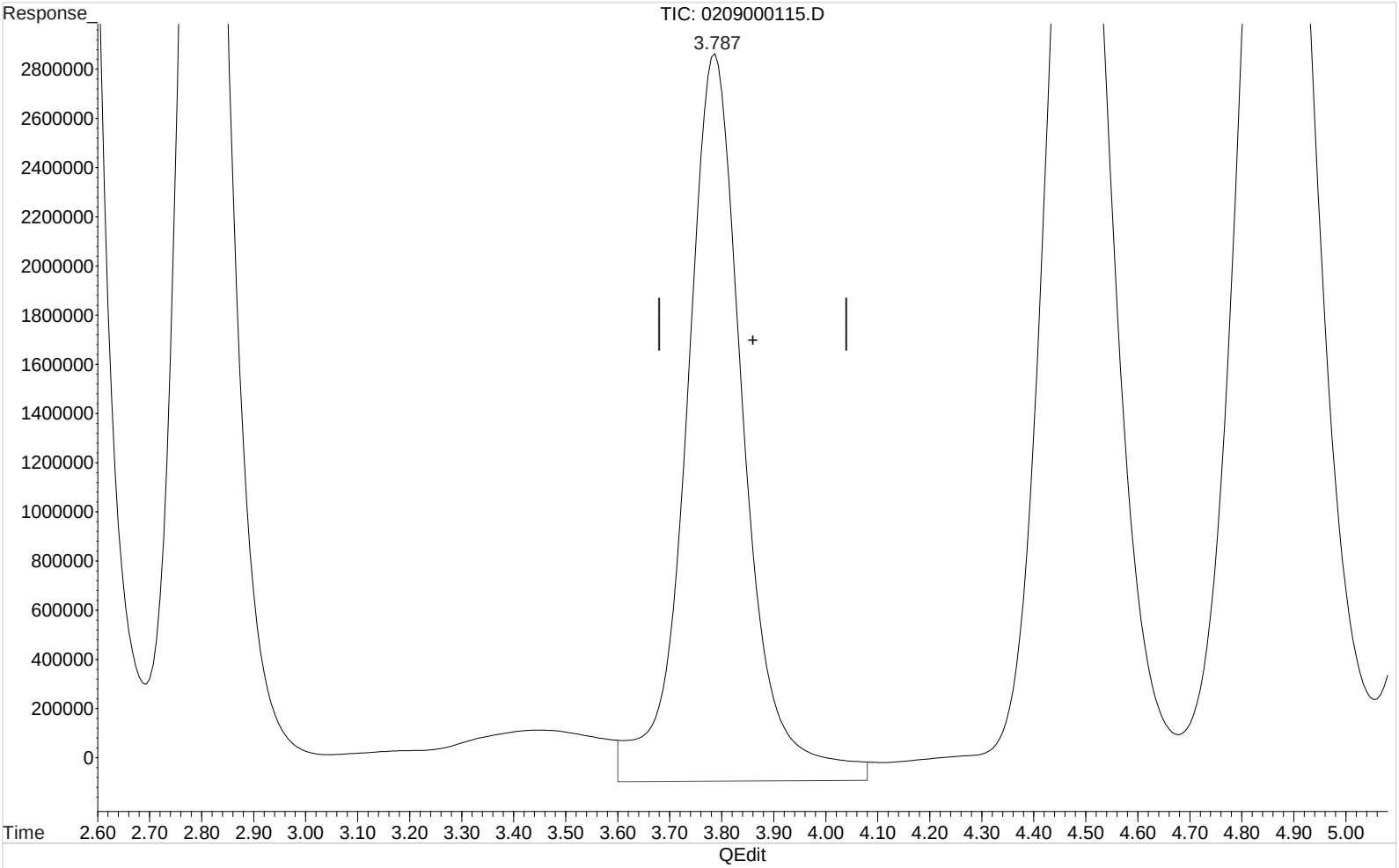


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000115.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:37:47 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.787min 1099.844 ug/L

response 22986522

Manual Integration:

Before

02/10/17

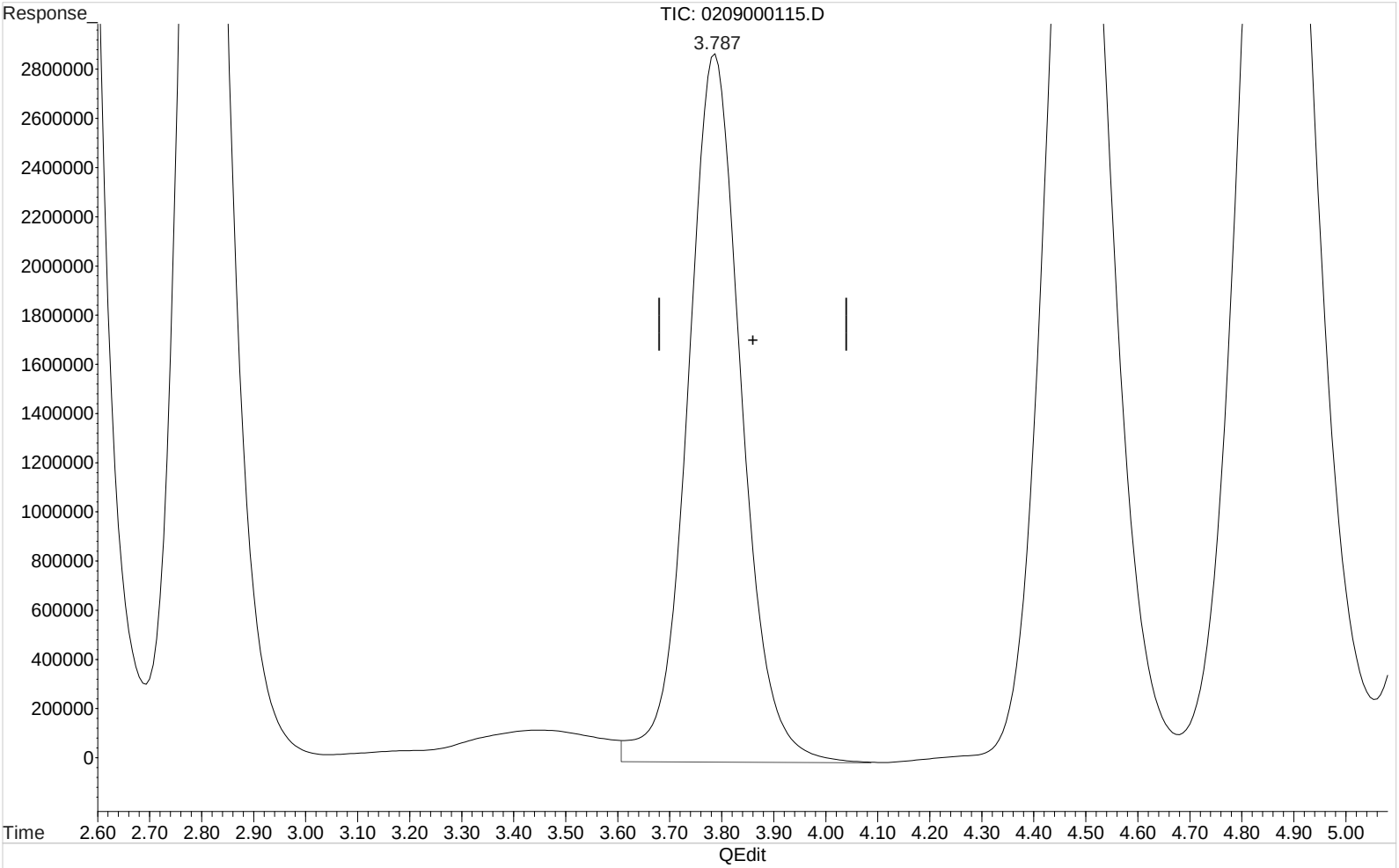
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000115.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:37:47 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.787min 993.525 ug/L m

response 20764472

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Date: 2/9/2017 XC-254 YC-210

ALS Environmental

ICAL Date: 2/9/2017

By: AE

Injection Log

ICAL ID: CAL 15185 (210) CAL 15192 (254)

Stealth ID: N/A

LC8 - Agilent 1260

LIMS ID: N/A

2nd Review:

Column: Ultra Aromax SN: 150411353J

Mobile Phases A: MeOH Lot#: 56189 B: ACN Lot#: 56207 C: H_2O Lot#: 56160 NA

		File Name	Method	Dilution	R	Comments
1	PRIMER	0209000101	8330BXC.M	NA		
2	PRIMER	0209000102	8330BXC.M	NA	X	
3	IB	0209000103	8330BXC.M	NA	X	
4	17-OLC-01-09J 20 PPB	0209000104	8330BXC.M	NA	X	
5	17-OLC-01-09I 50 PPB	0209000105	8330BXC.M	NA	X	
6	17-OLC-01-09H 100 PPB	0209000106	8330BXC.M	NA	X	
7	17-OLC-01-09G 200 PPB	0209000107	8330BXC.M	NA	X	
8	17-OLC-01-09F 500 PPB	0209000108	8330BXC.M	NA	X	
9	17-OLC-01-09E 1000 PPB	0209000109	8330BXC.M	NA	X	
10	17-OLC-01-09D 2000 PPB	0209000110	8330BXC.M	NA	X	
11	17-OLC-01-09C 5000 PPB	0209000111	8330BXC.M	NA	X	
12	17-OLC-01-09B 10000 PPB	0209000112	8330BXC.M	NA	X	
13	17-OLC-01-09A 20000 PPB	0209000113	8330BXC.M	NA	X	
14	IB	0209000114	8330BXC.M	NA	X	
15	17-OLC-01-09K 1000 PPB ICV	0209000115	8330BXC.M	NA	X	
16	IB	0209000116	8330BXC.M	NA	X	

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000103.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 15:23:38 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:25:25 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
11) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	
	Target Compounds					
1) T	HMX	0.000	0	N.D.	ug/L	d
2) T	RDX	0.000	0	N.D.	ug/L	
3) T	Nitrobenzene	0.000	0	N.D.	ug/L	
4) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L	d
5) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L	d
6) T	2-NT	0.000	0	N.D.	ug/L	
7) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L	d
8) T	3-NT	0.000	0	N.D.	ug/L	d
9) T	1,3-DNB	0.000	0	N.D.	ug/L	
10) T	4-NT	0.000	0	N.D.	ug/L	
12) T	2,6-DNT	0.000	0	N.D.	ug/L	
13) T	2,4-DNT	0.000	0	N.D.	ug/L	d
14) T	Tetryl	0.000	0	N.D.	ug/L	d
15) T	1,3,5-TNB	0.000	0	N.D.	ug/L	d
16) T	2,4,6-TNT	0.000	0	N.D.	ug/L	d

(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)

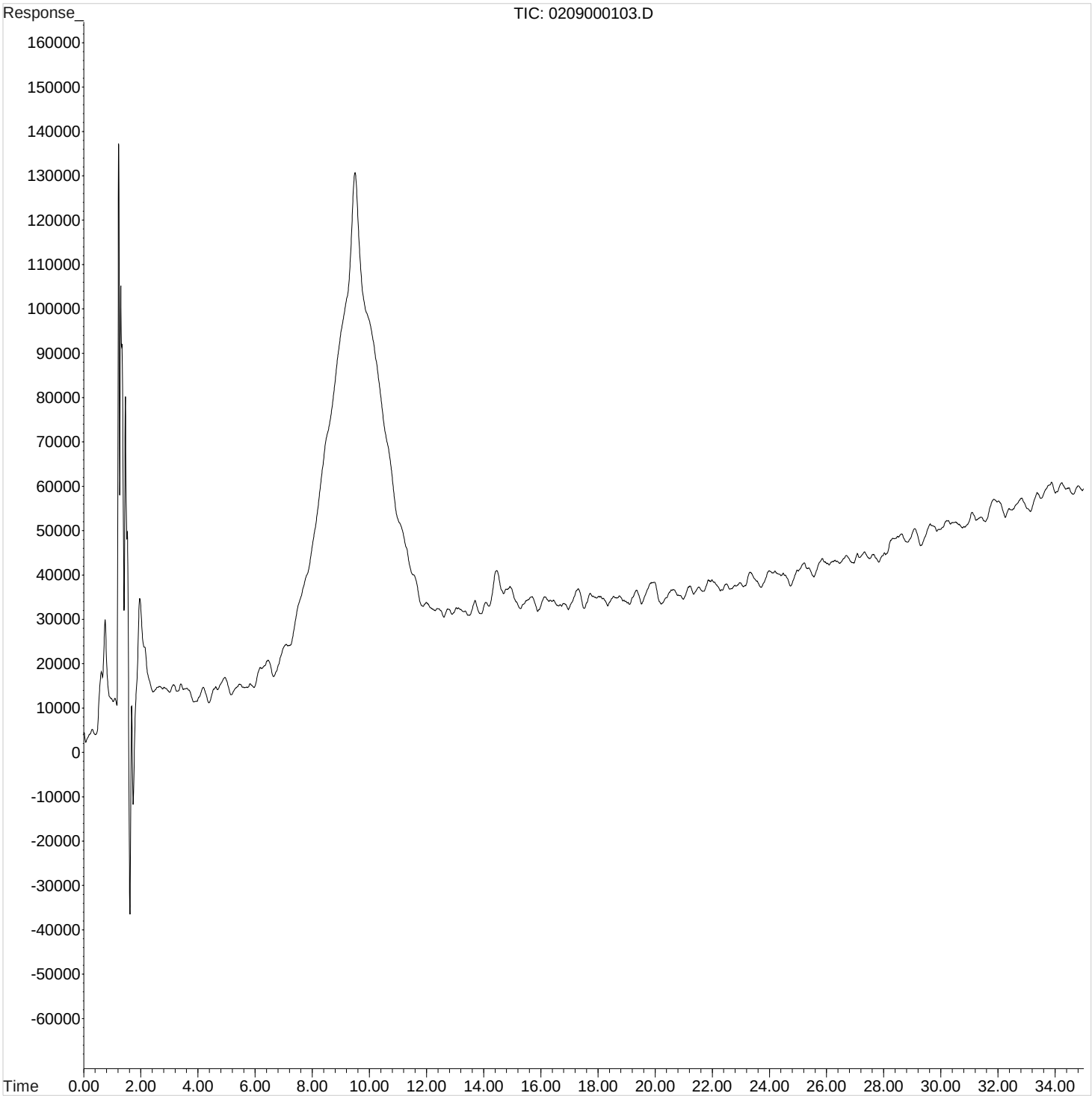
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000103.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 15:23:38 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:25:25 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:16:35 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
11) S	1-Chloro-3-Nitrobenzene	8.147	514214	19.490	ug/L	m
	Target Compounds					
1) T	HMX	2.553	294269	18.763	ug/L	m
2) T	RDX	2.807	452332	24.916	ug/L	m
3) T	Nitrobenzene	4.487	743763	19.991	ug/L	m
4) T	3,5-Dinitroaniline	5.247	964857	20.844	ug/L	m
5) T	4-Amino-2,6-DNT	4.873	652694	20.547	ug/L	m
6) T	2-NT	5.867	473214	20.100	ug/L	m
7) T	2-Amino-4,6-DNT	6.367	889746	21.218	ug/L	m
8) T	3-NT	6.987	566568	20.307	ug/L	m
9) T	1,3-DNB	9.147	1128441	20.188	ug/L	m
10) T	4-NT	7.853	544768	23.816	ug/L	m
12) T	2,6-DNT	8.827	491185	20.081	ug/L	m
13) T	2,4-DNT	14.827	1250552	24.282	ug/L	
14) T	Tetryl	12.993	621836	21.319	ug/L	m
15) T	1,3,5-TNB	19.800	970683	23.433	ug/L	
16) T	2,4,6-TNT	20.793	819690	21.258	ug/L	

(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)

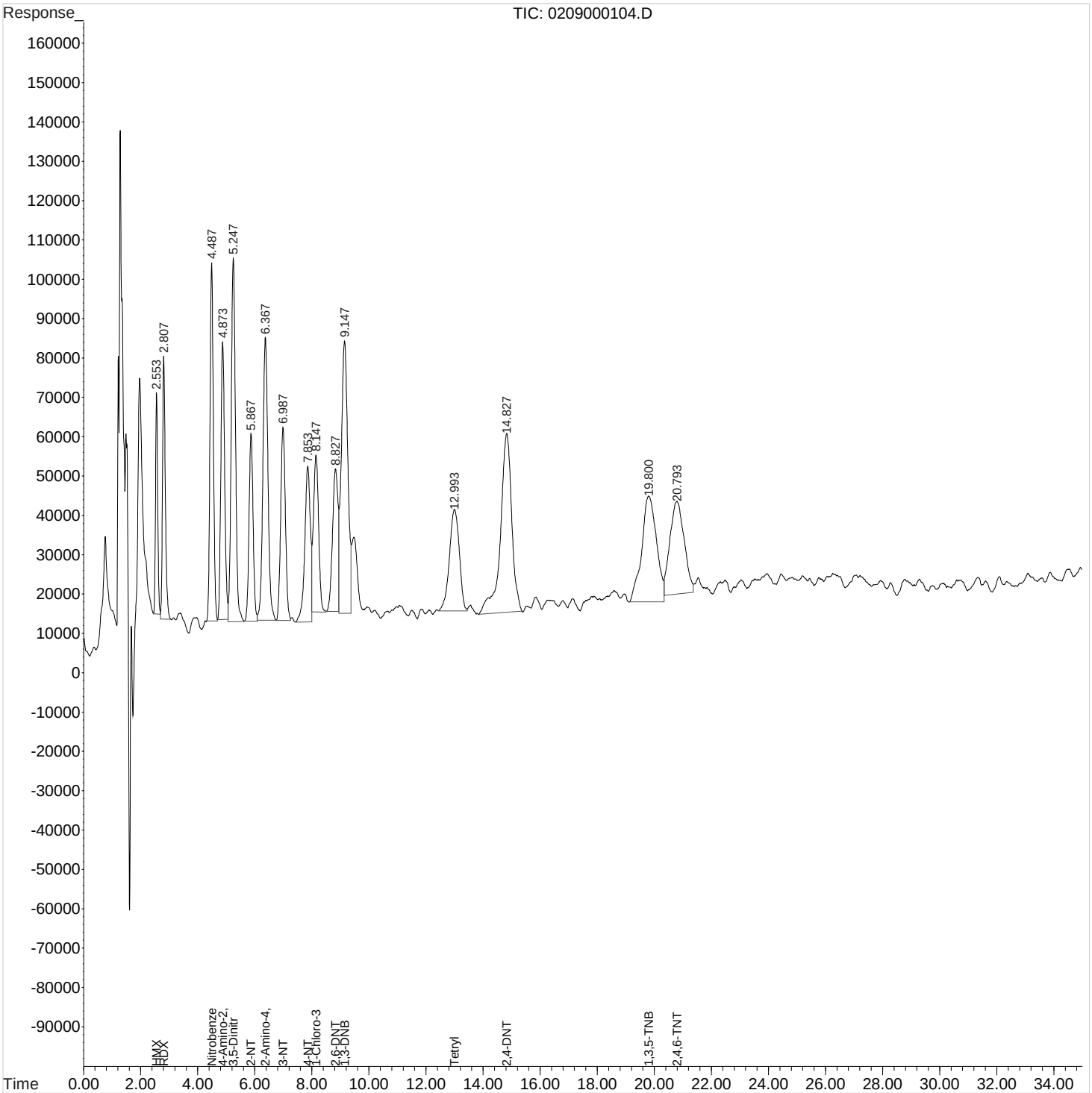
2/13/17

2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:16:35 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

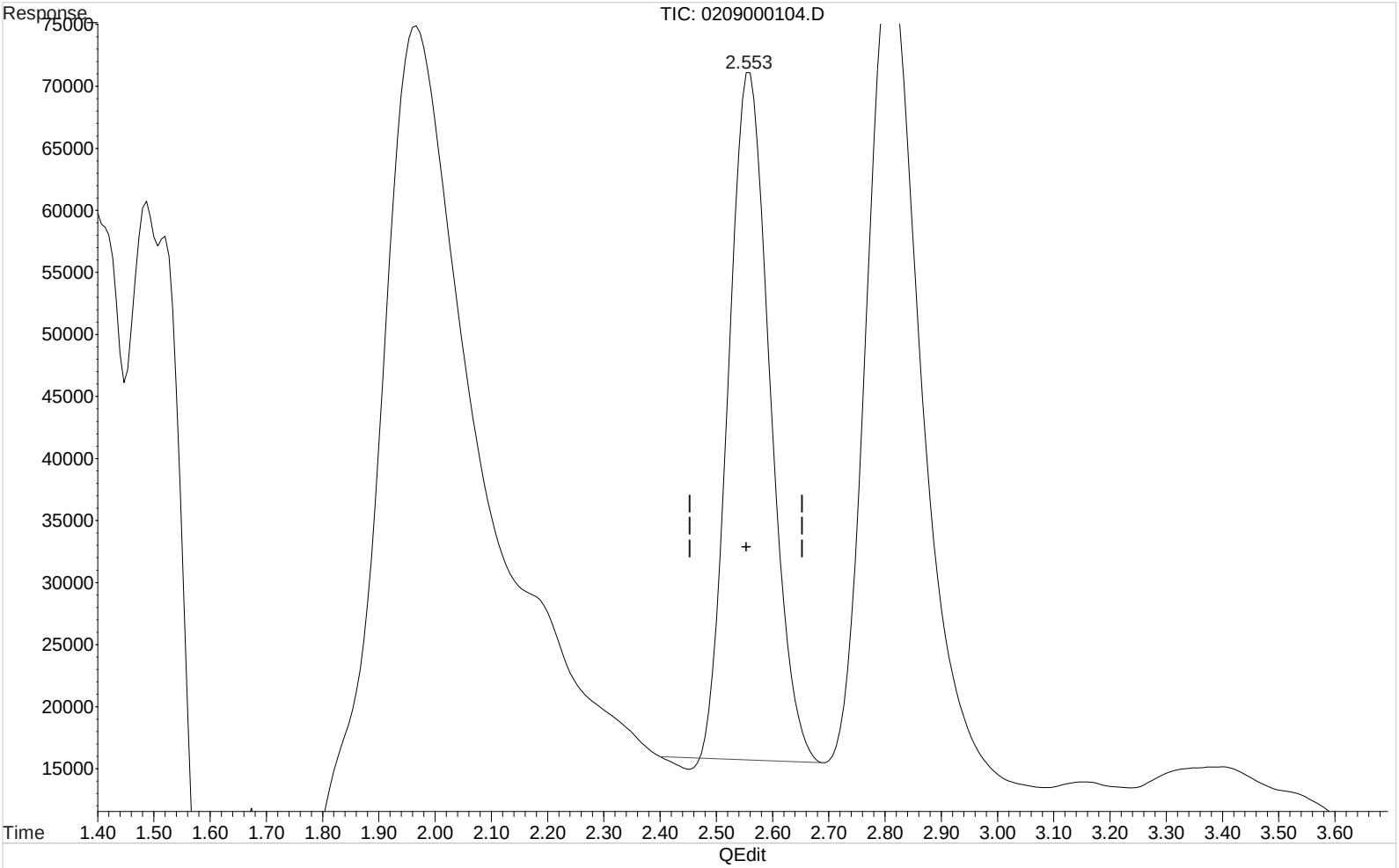


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.553min 17.958 ug/L

response 281642

Manual Integration:

Before

02/13/17

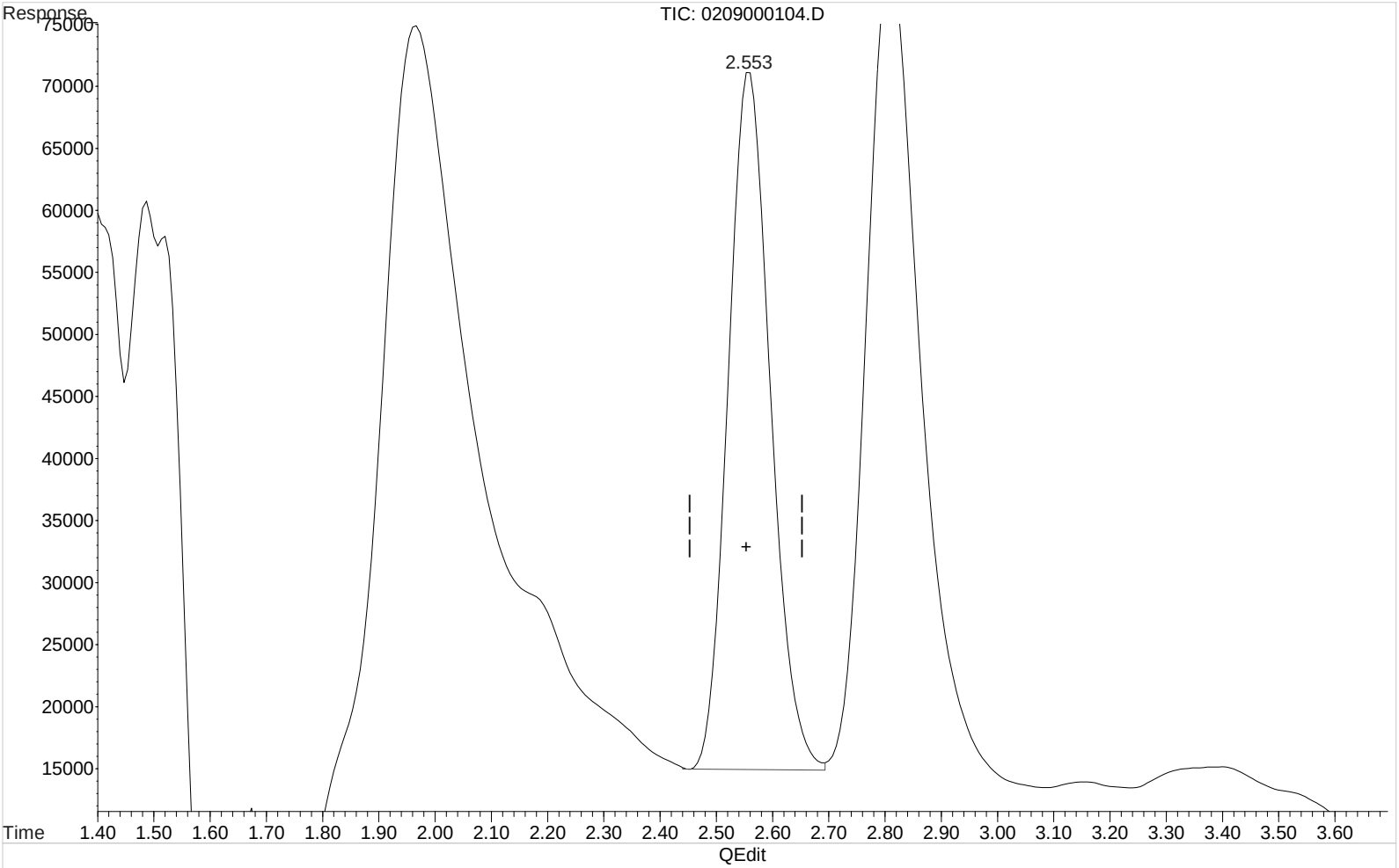
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(1) HMX (T)

2.553min 18.763 ug/L m

response 294269

Manual Integration:

After

BLC

02/13/17

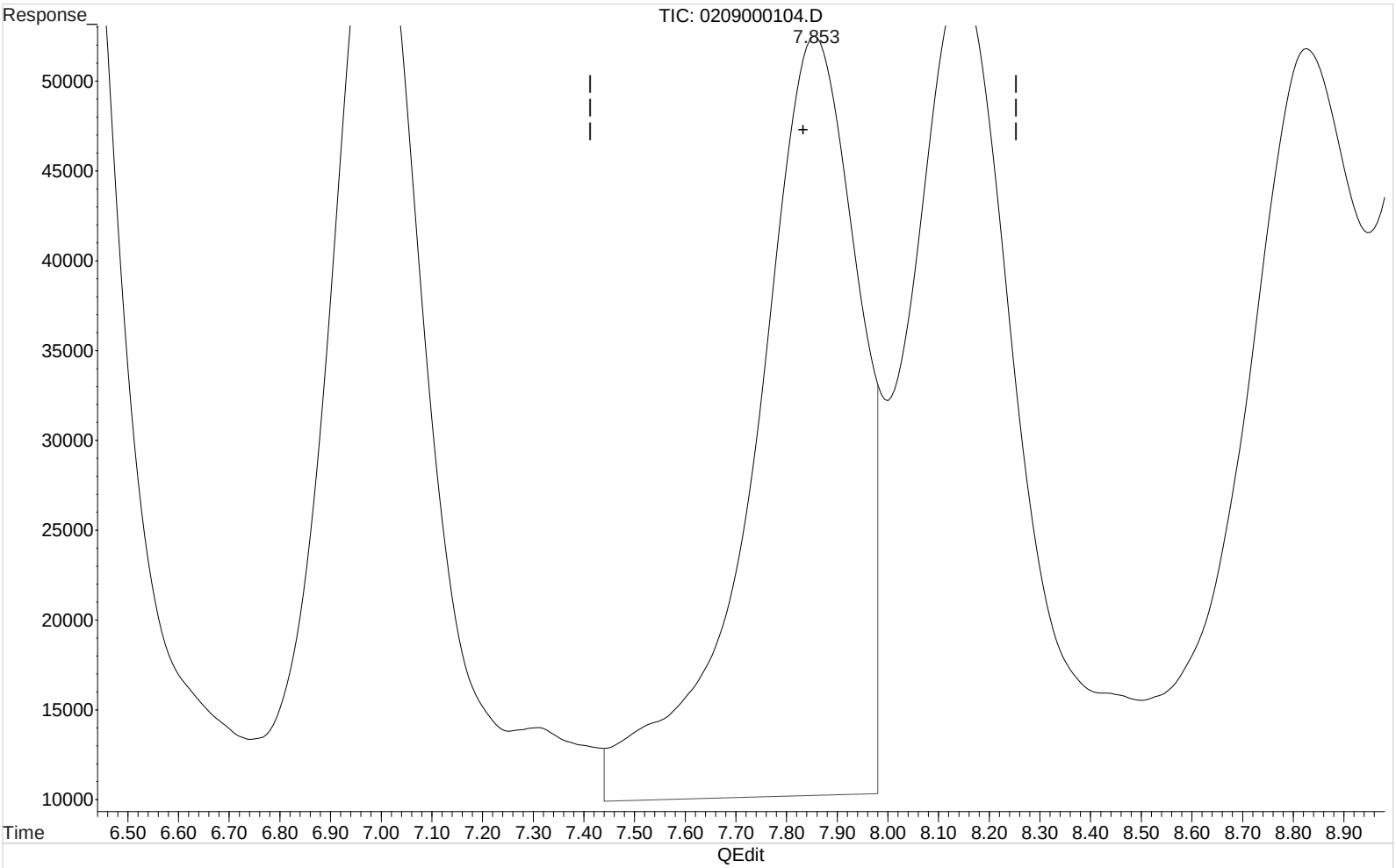
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(10) 4-NT (T)

7.853min 26.678 ug/L

response 610248

Manual Integration:

Before

02/13/17

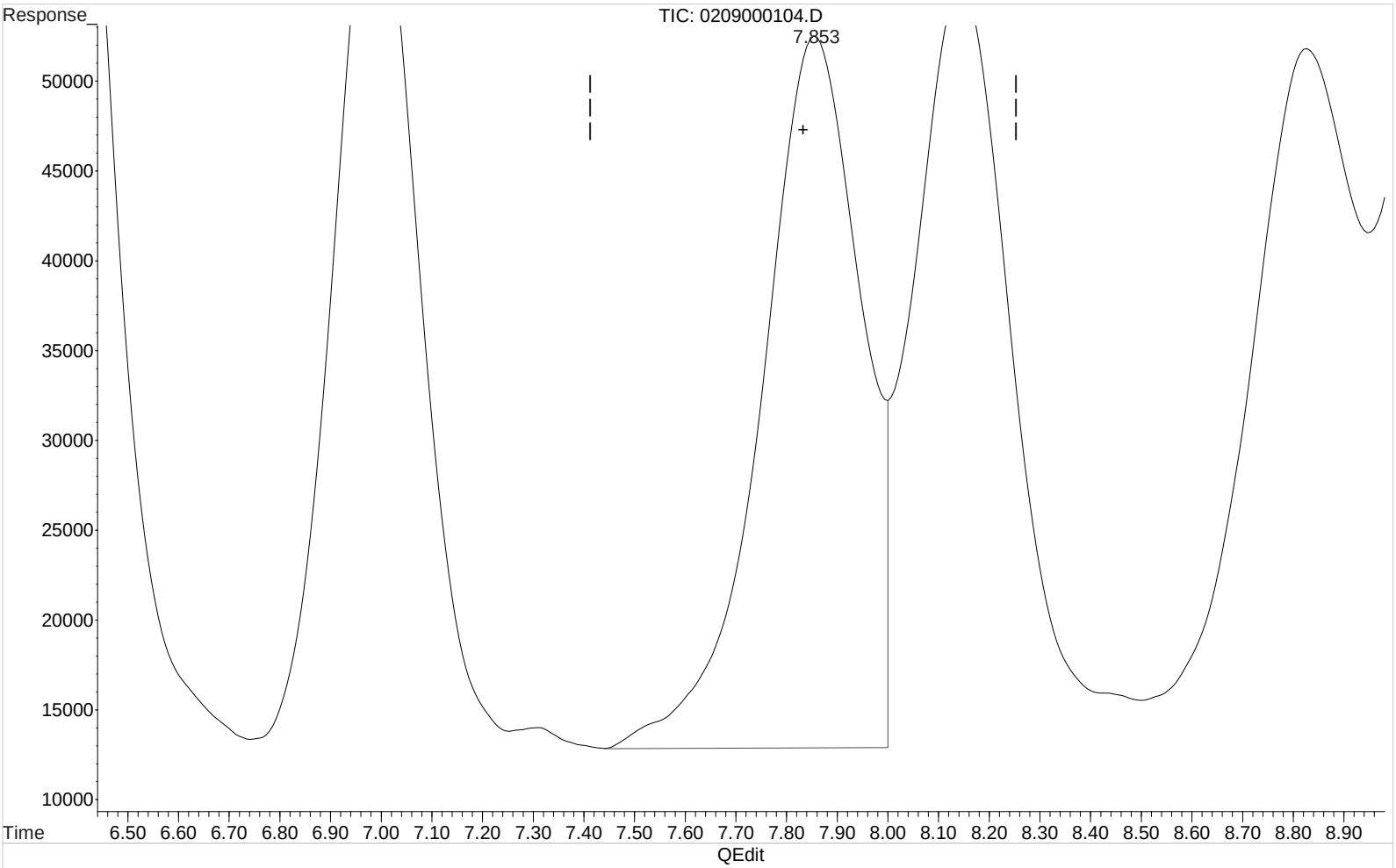
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(10) 4-NT (T)

7.853min 23.816 ug/L m

response 544768

Manual Integration:

After

BLC

02/13/17

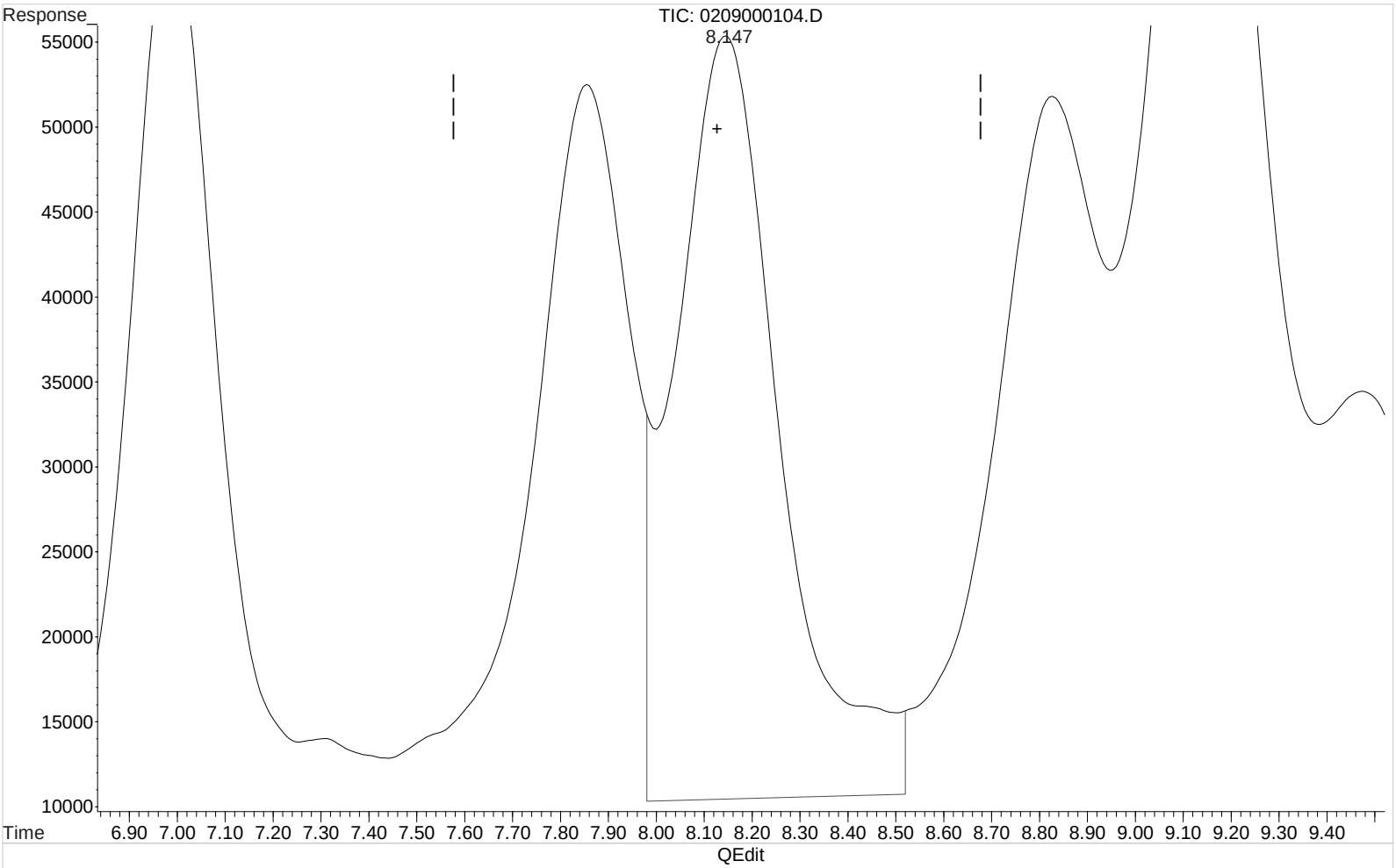
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(11) 1-Chloro-3-Nitrobenzene (S)

8.147min 25.798 ug/L

response 680648

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

(b) (6)

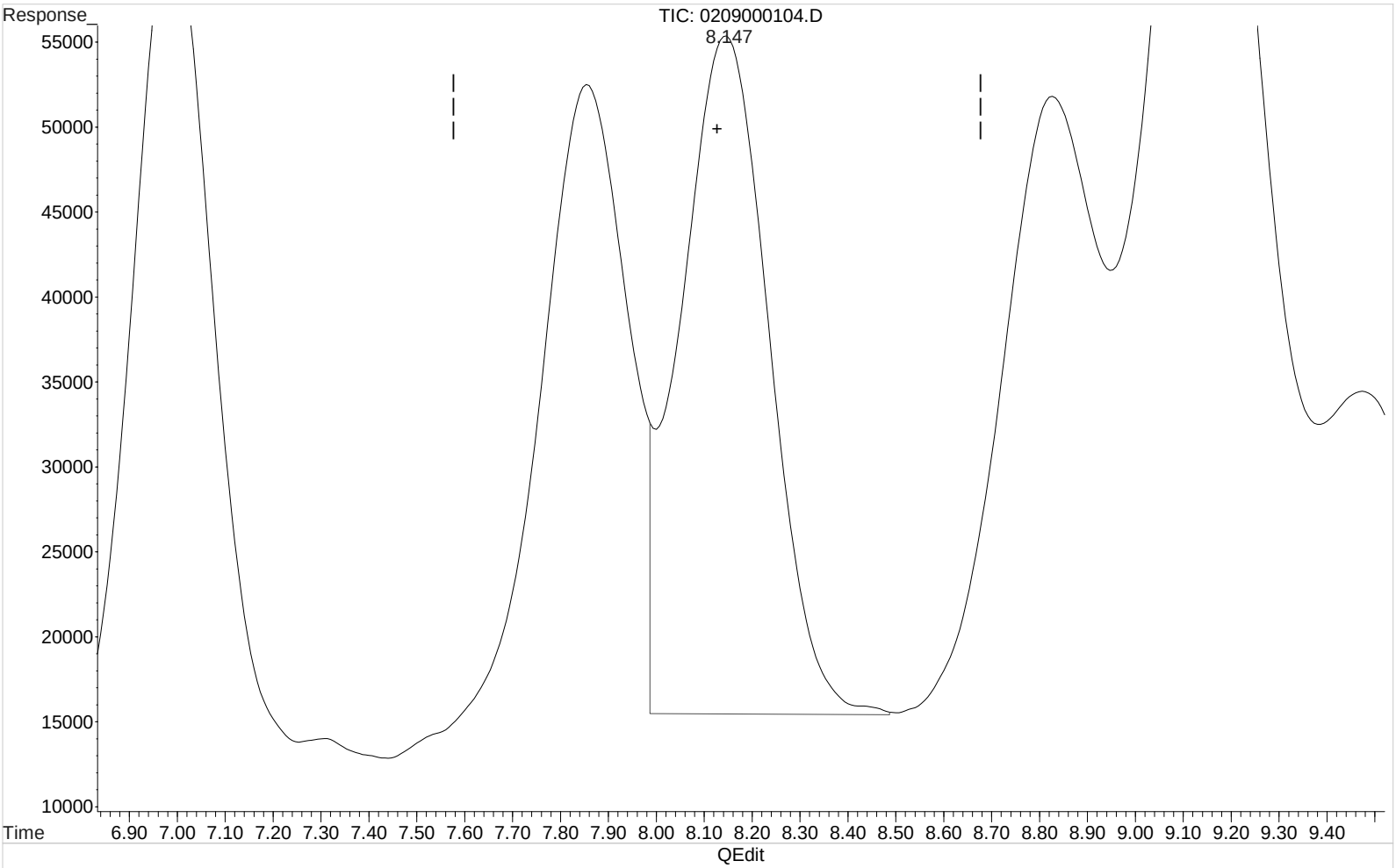
2/13/17

2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(11) 1-Chloro-3-Nitrobenzene (S)

8.147min 19.490 ug/L m

response 514214

Manual Integration:

After

BLC

02/13/17

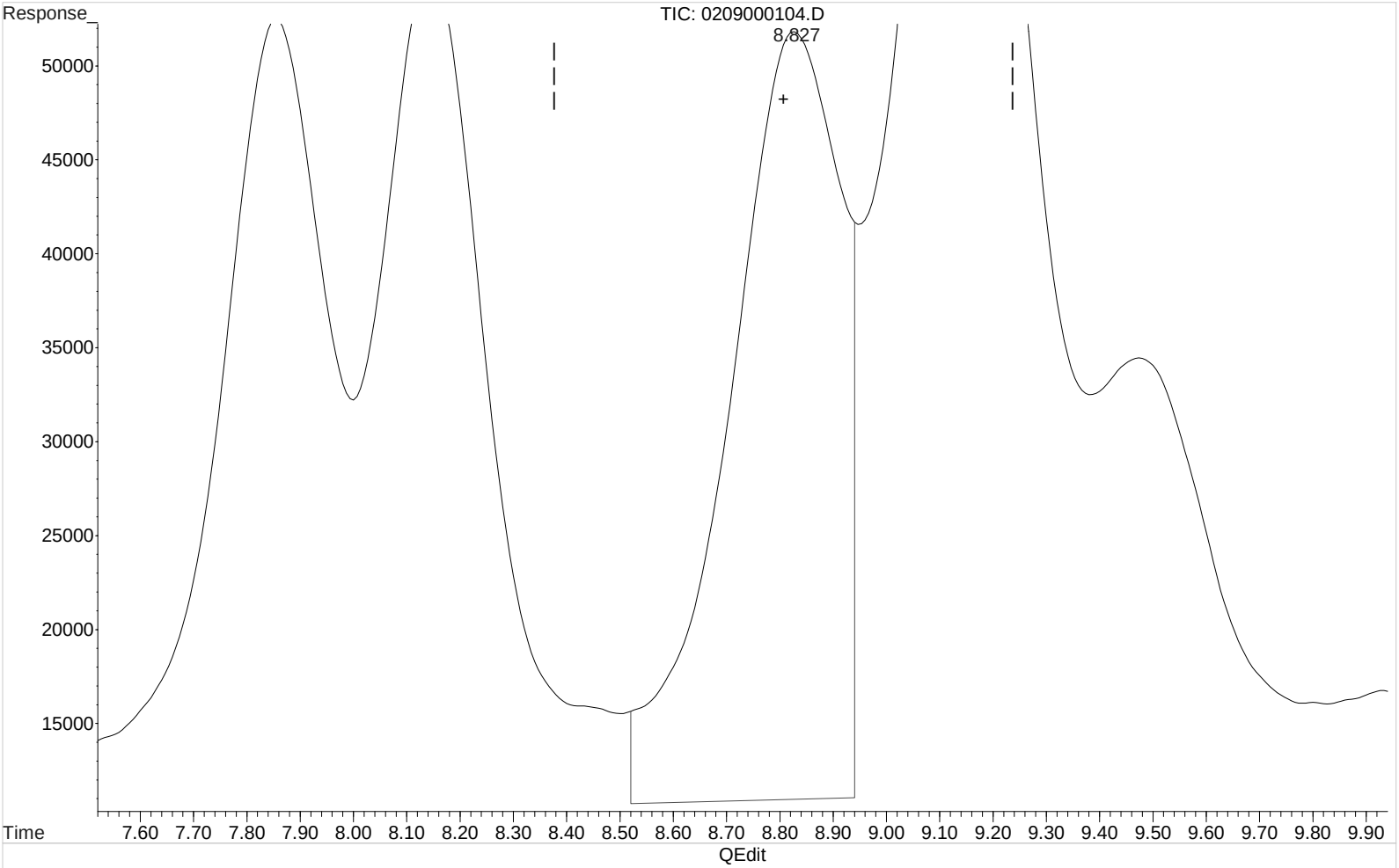
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(12) 2,6-DNT (T)

8.827min 24.500 ug/L

response 599282

Manual Integration:

Before

02/13/17

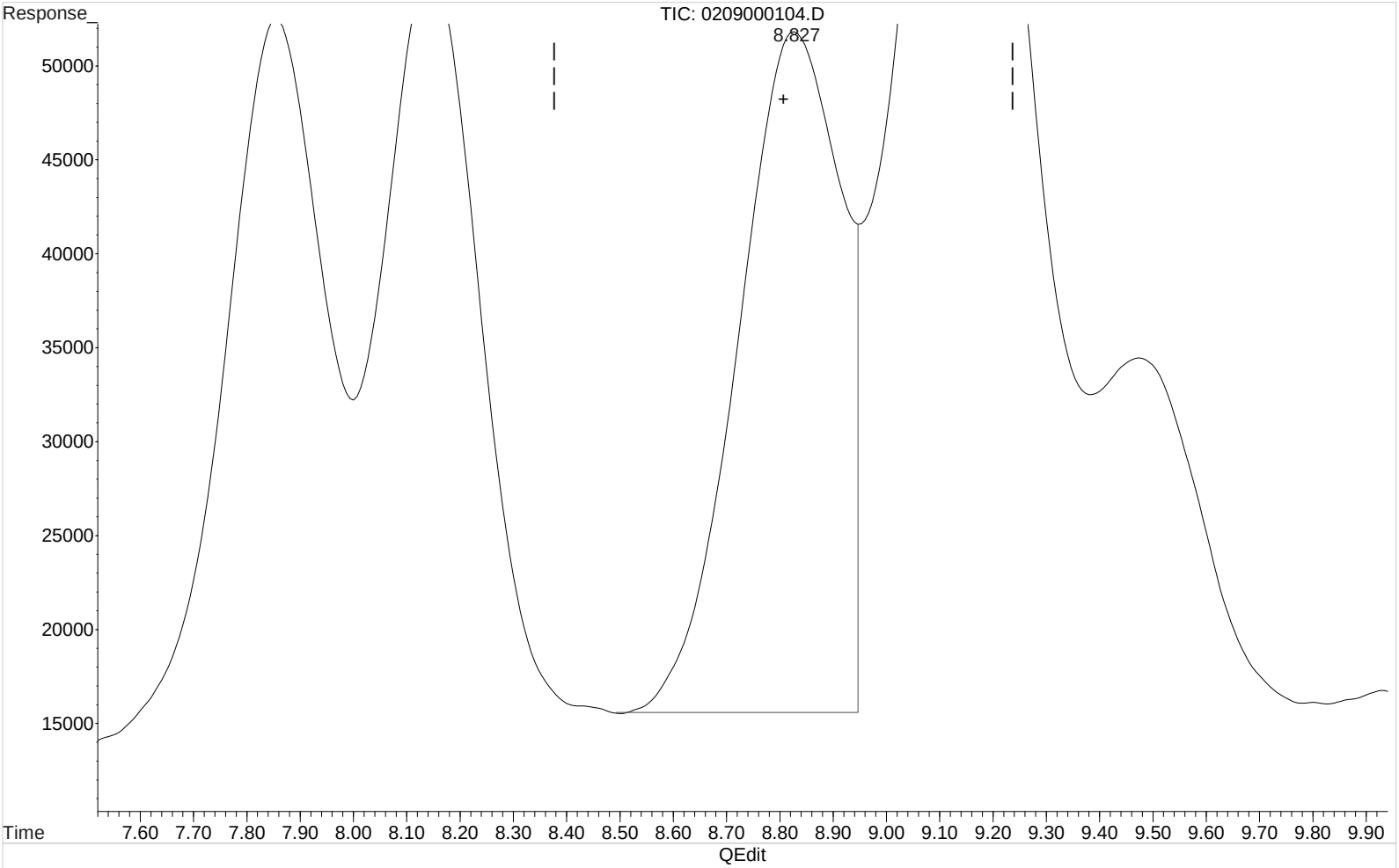
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(12) 2,6-DNT (T)

8.827min 20.081 ug/L m

response 491185

Manual Integration:

After

BLC

02/13/17

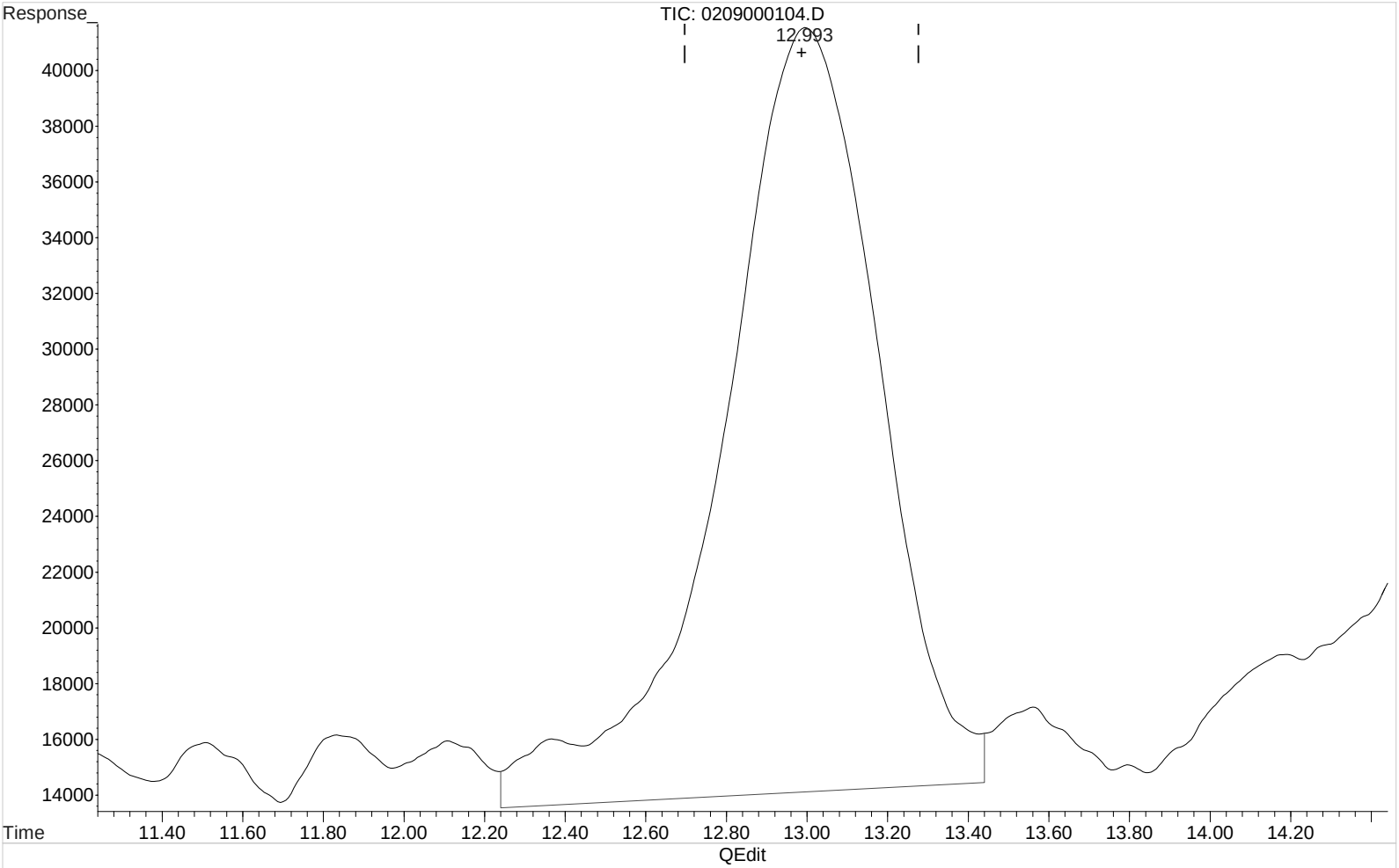
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(14) Tetryl (T)

12.993min 25.507 ug/L

response 743989

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b) (6)

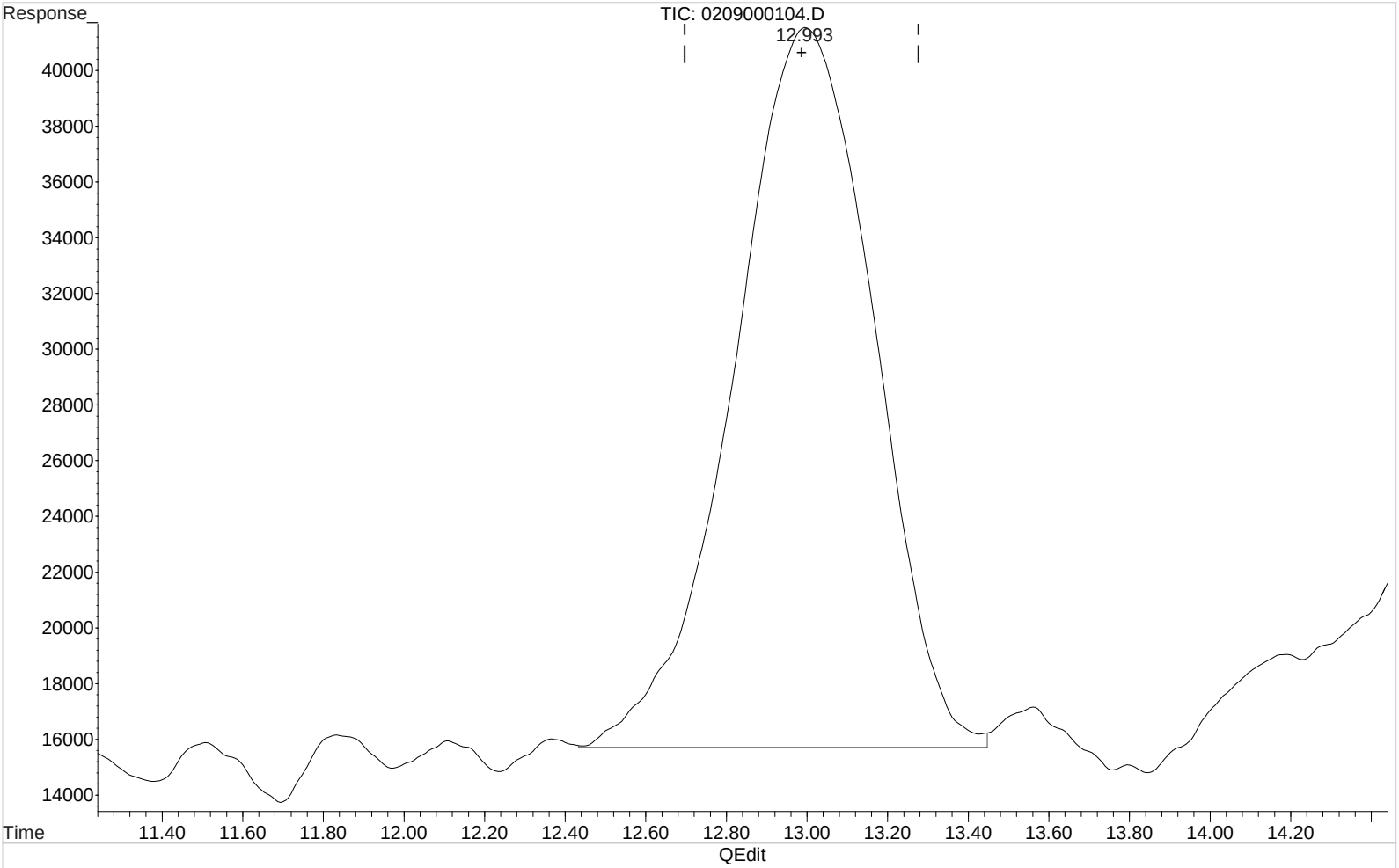
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(14) Tetryl (T)

12.993min 21.319 ug/L m

response 621836

Manual Integration:

After

BLC

02/13/17

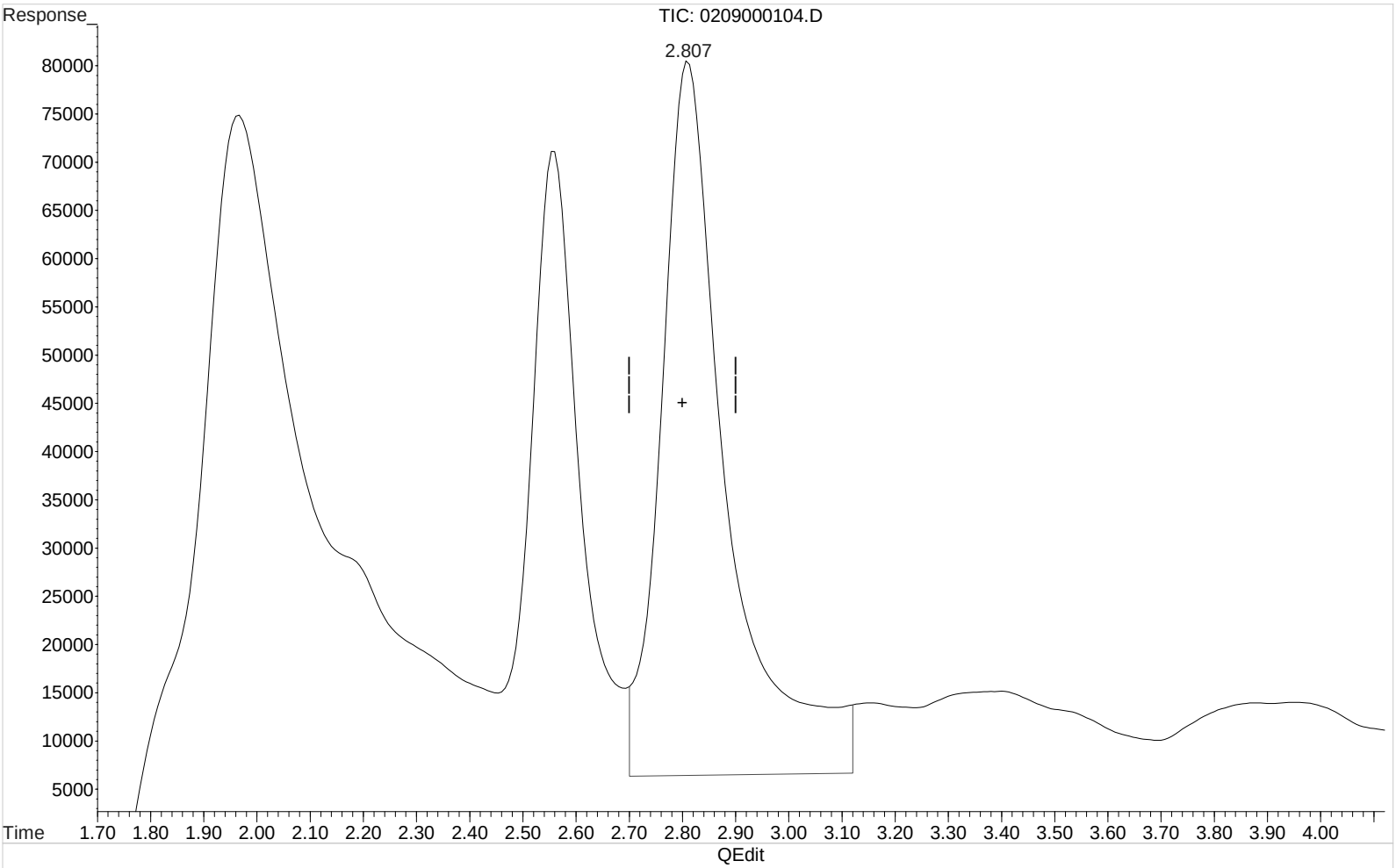
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.807min 34.755 ug/L

response 630962

Manual Integration:

Before

02/13/17

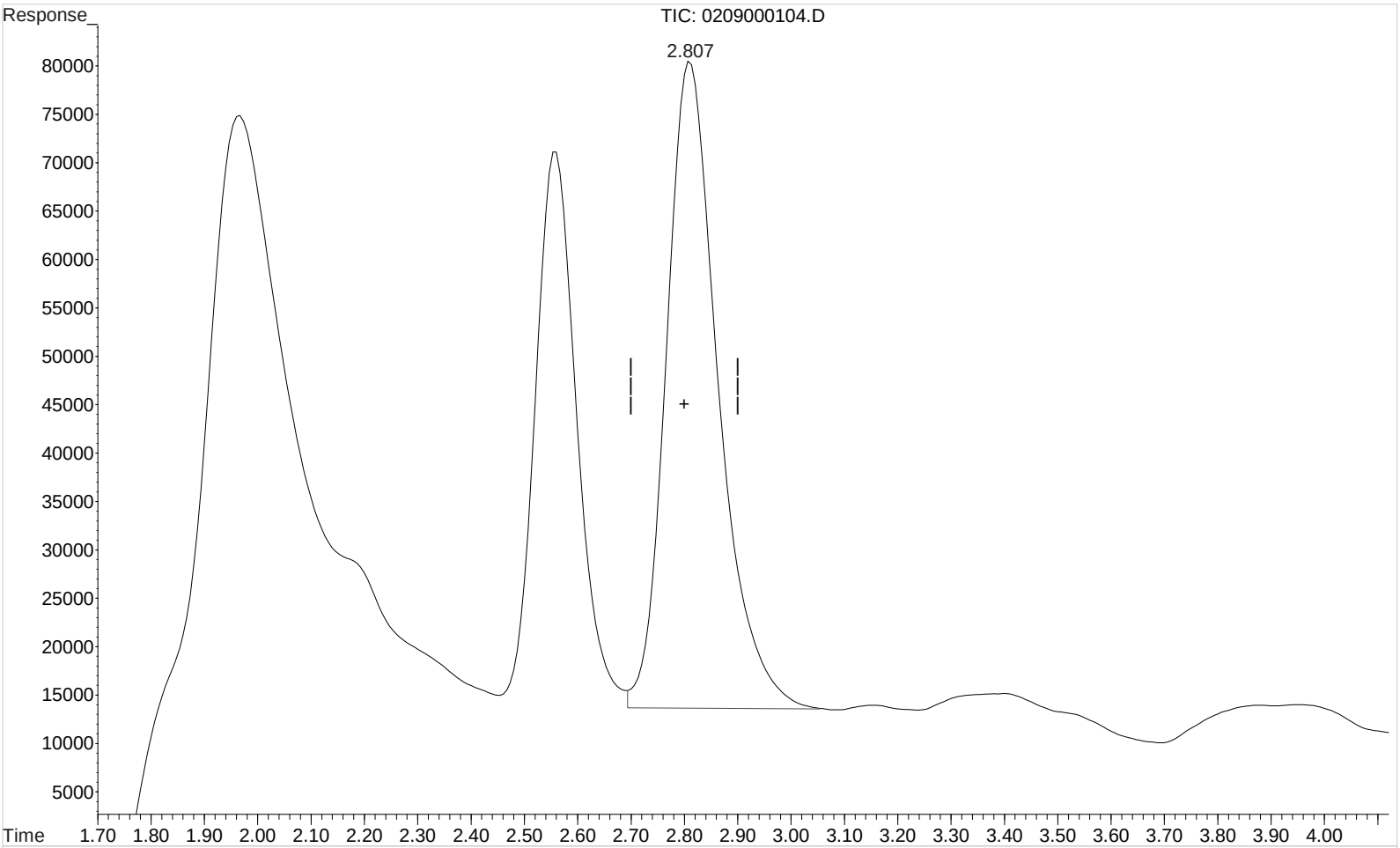
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.807min 24.916 ug/L m

response 452332

Manual Integration:

After

BLC

02/13/17

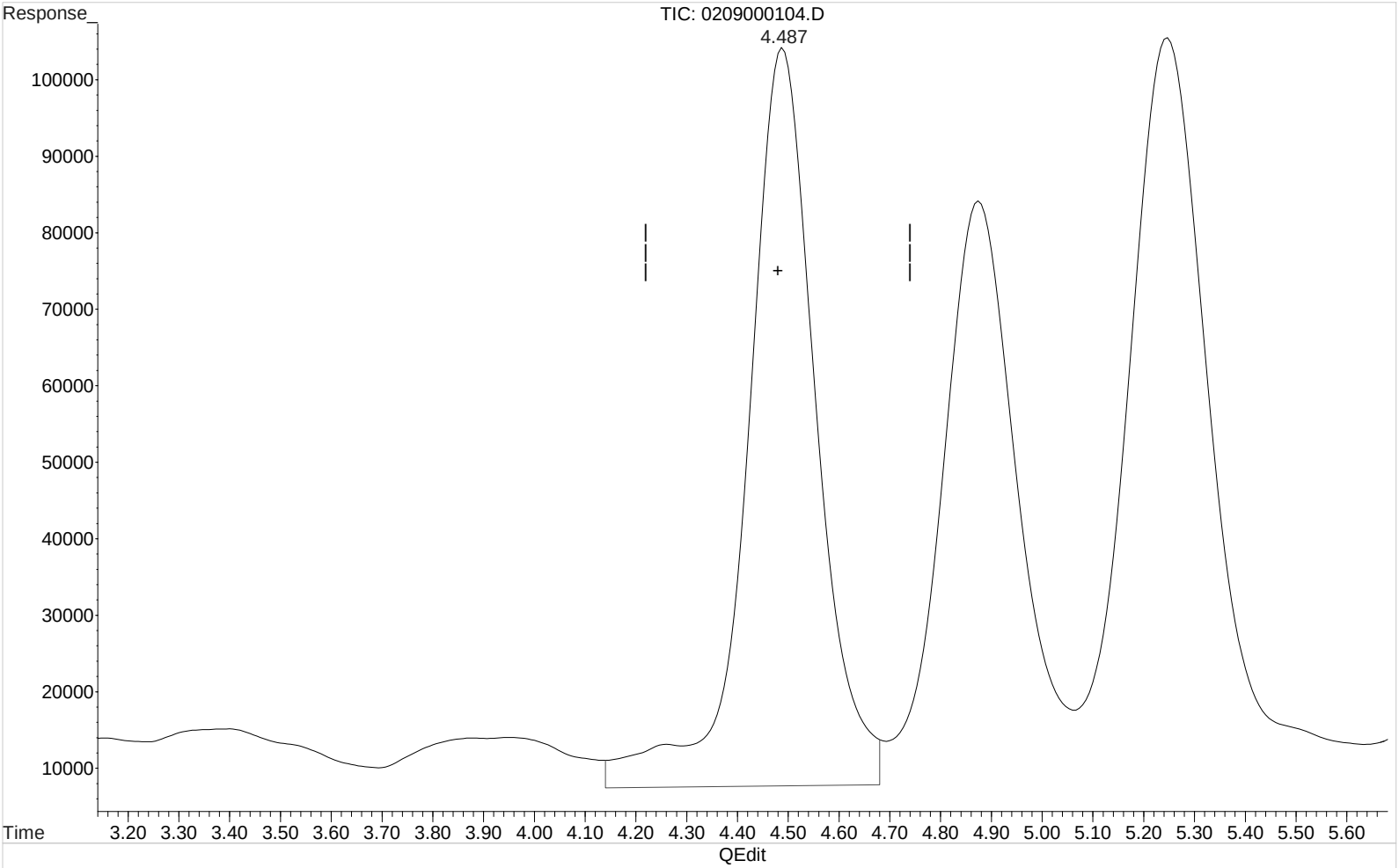
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(3) Nitrobenzene (T)

4.487min 24.547 ug/L

response 913278

Manual Integration:

Before

02/13/17

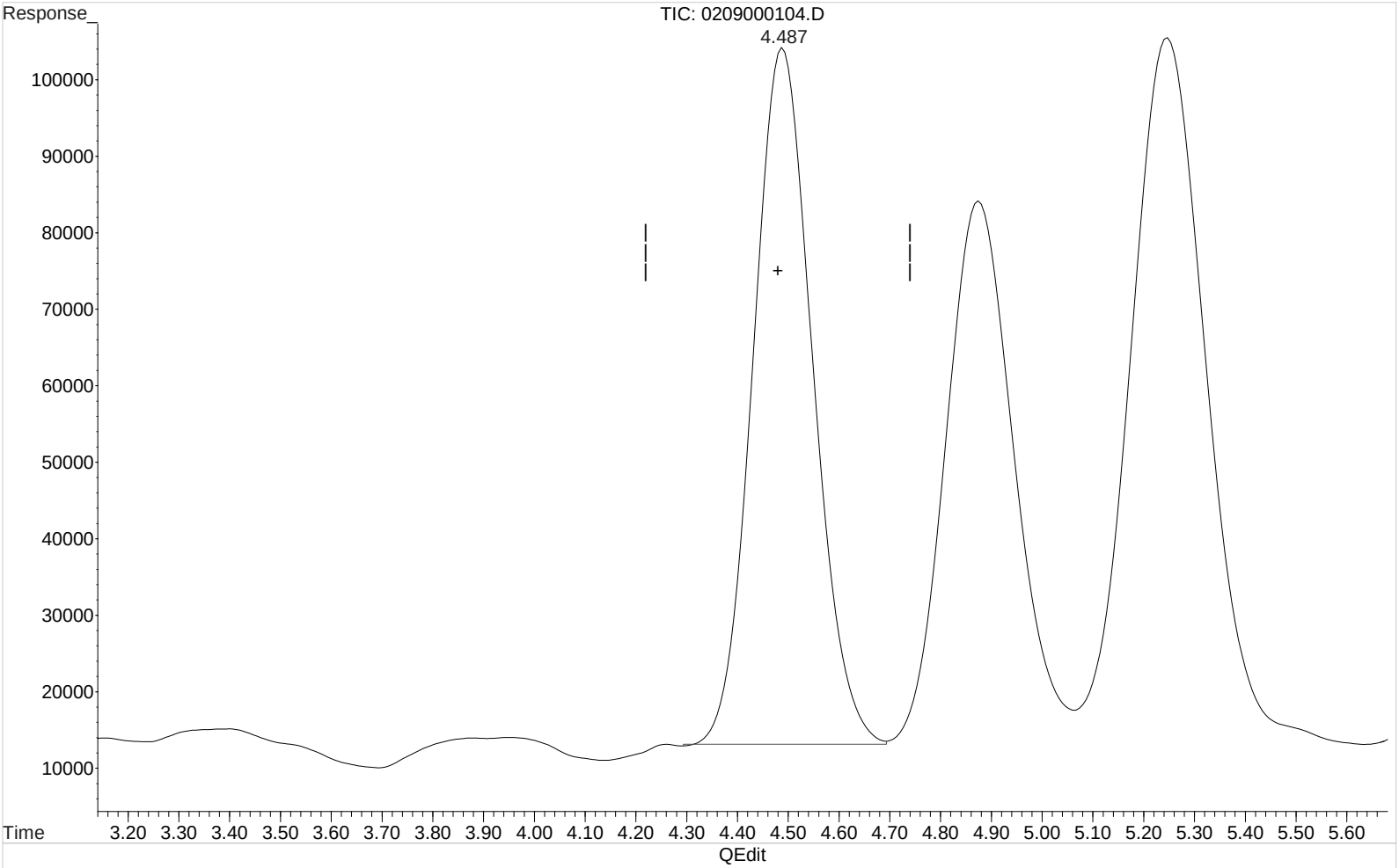
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 19.991 ug/L m

response 743763

Manual Integration:

After

BLC

02/13/17

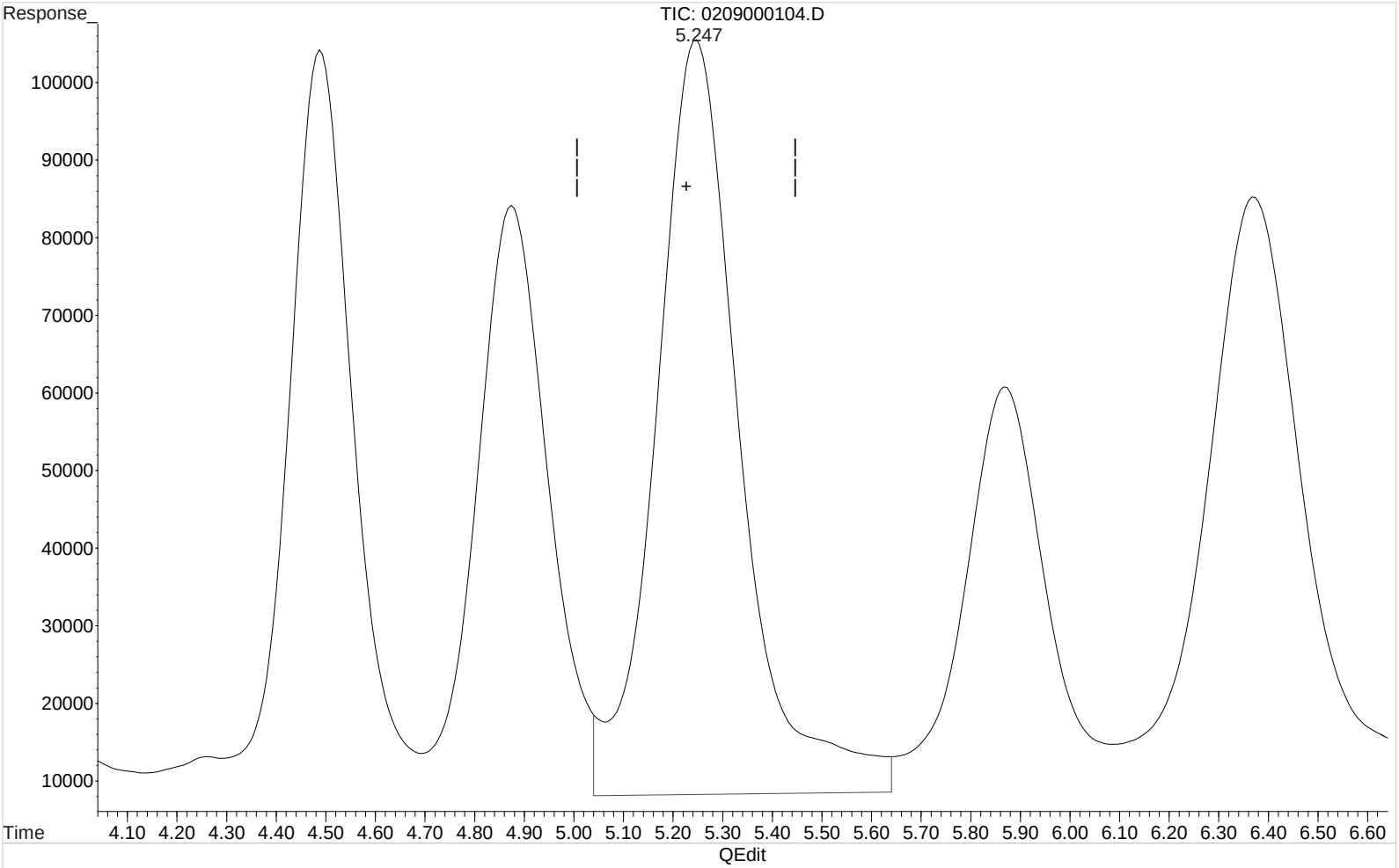
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(4) 3,5-Dinitroaniline (T)

5.247min 24.596 ug/L

response 1138541

Manual Integration:

Before

02/13/17

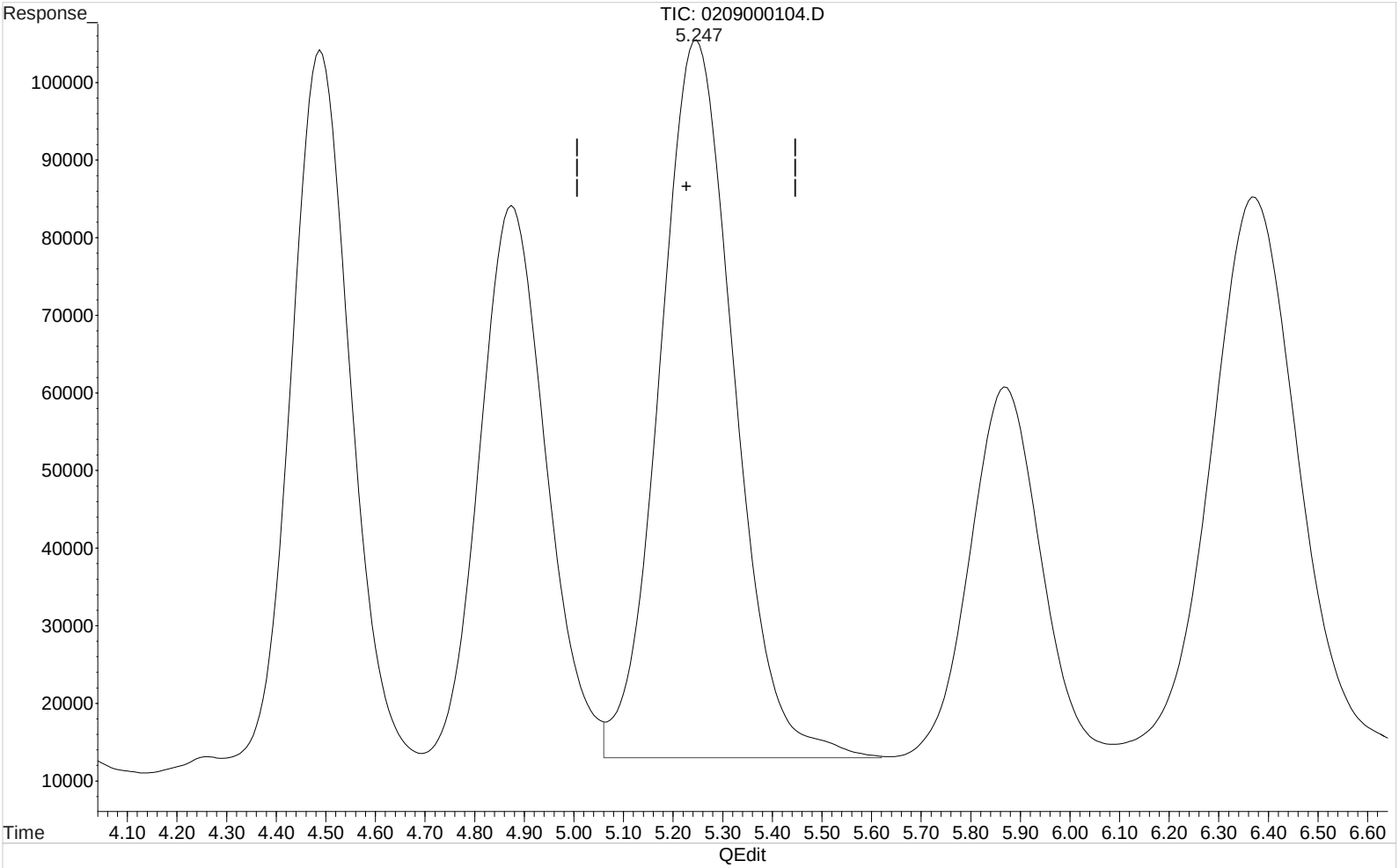
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(4) 3,5-Dinitroaniline (T)

5.247min 20.844 ug/L m

response 964857

Manual Integration:

After

BLC

02/13/17

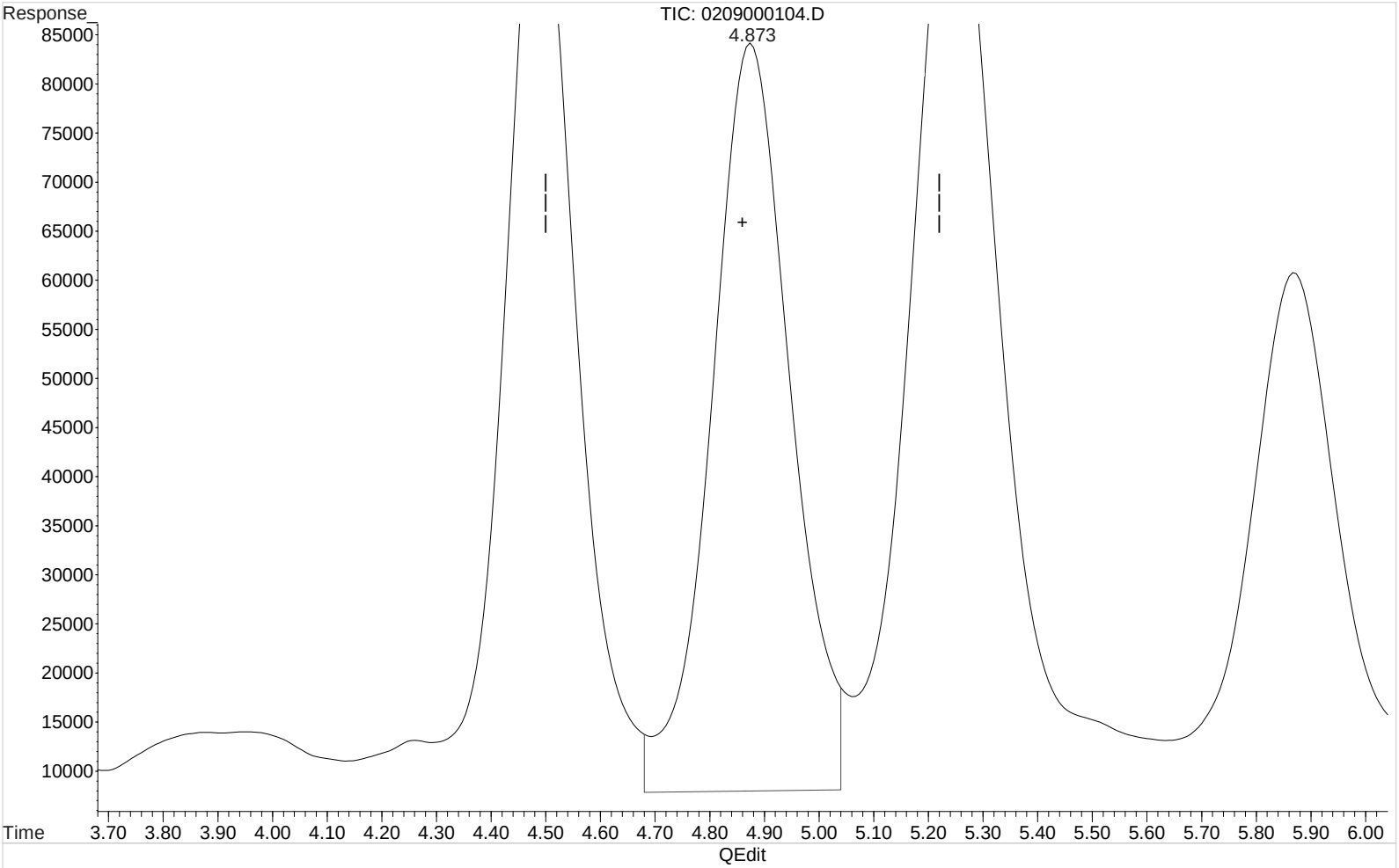
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(5) 4-Amino-2,6-DNT (T)

4.873min 24.112 ug/L

response 765953

Manual Integration:

Before

02/13/17

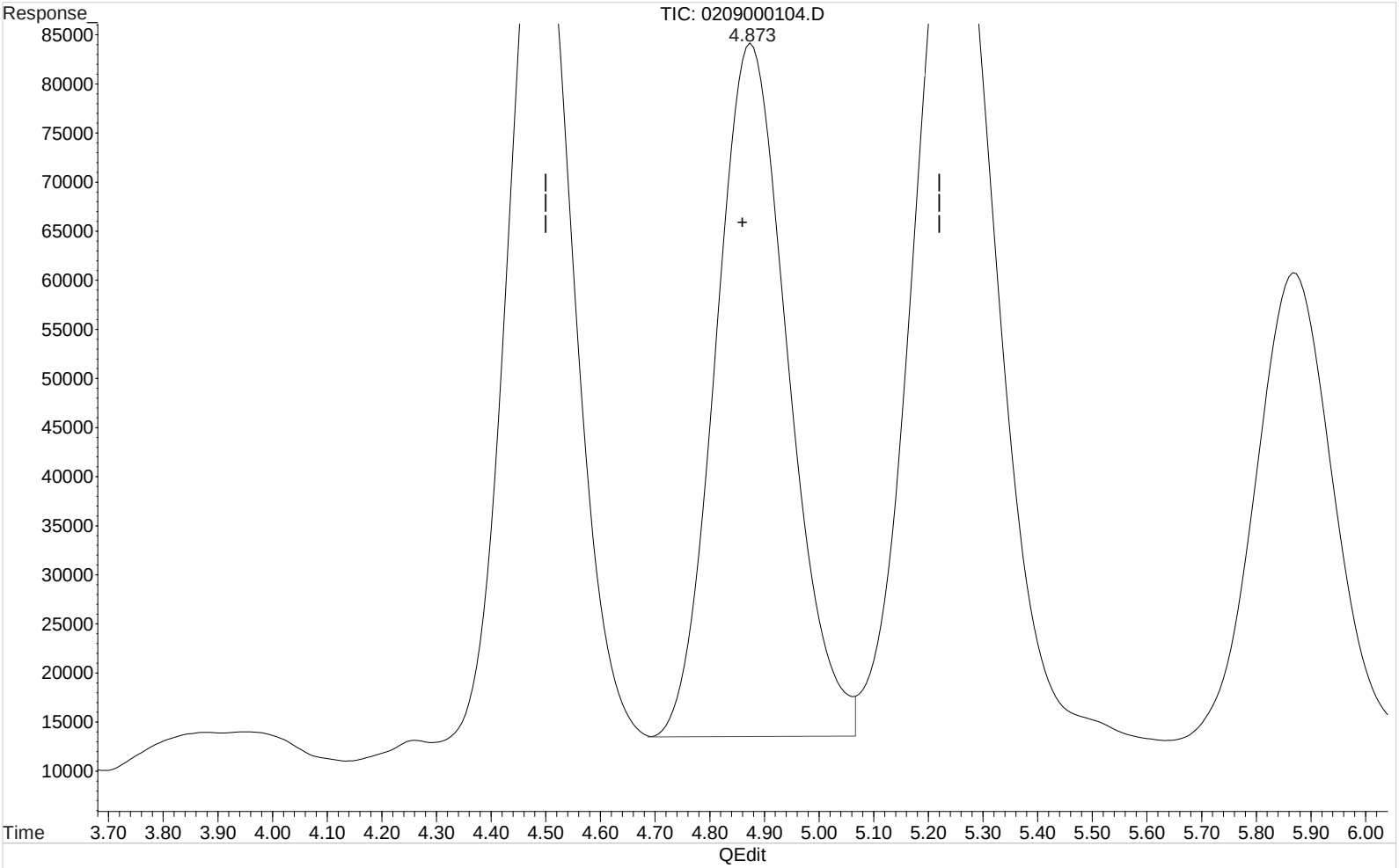
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(5) 4-Amino-2,6-DNT (T)

4.873min 20.547 ug/L m

response 652694

Manual Integration:

After

BLC

02/13/17

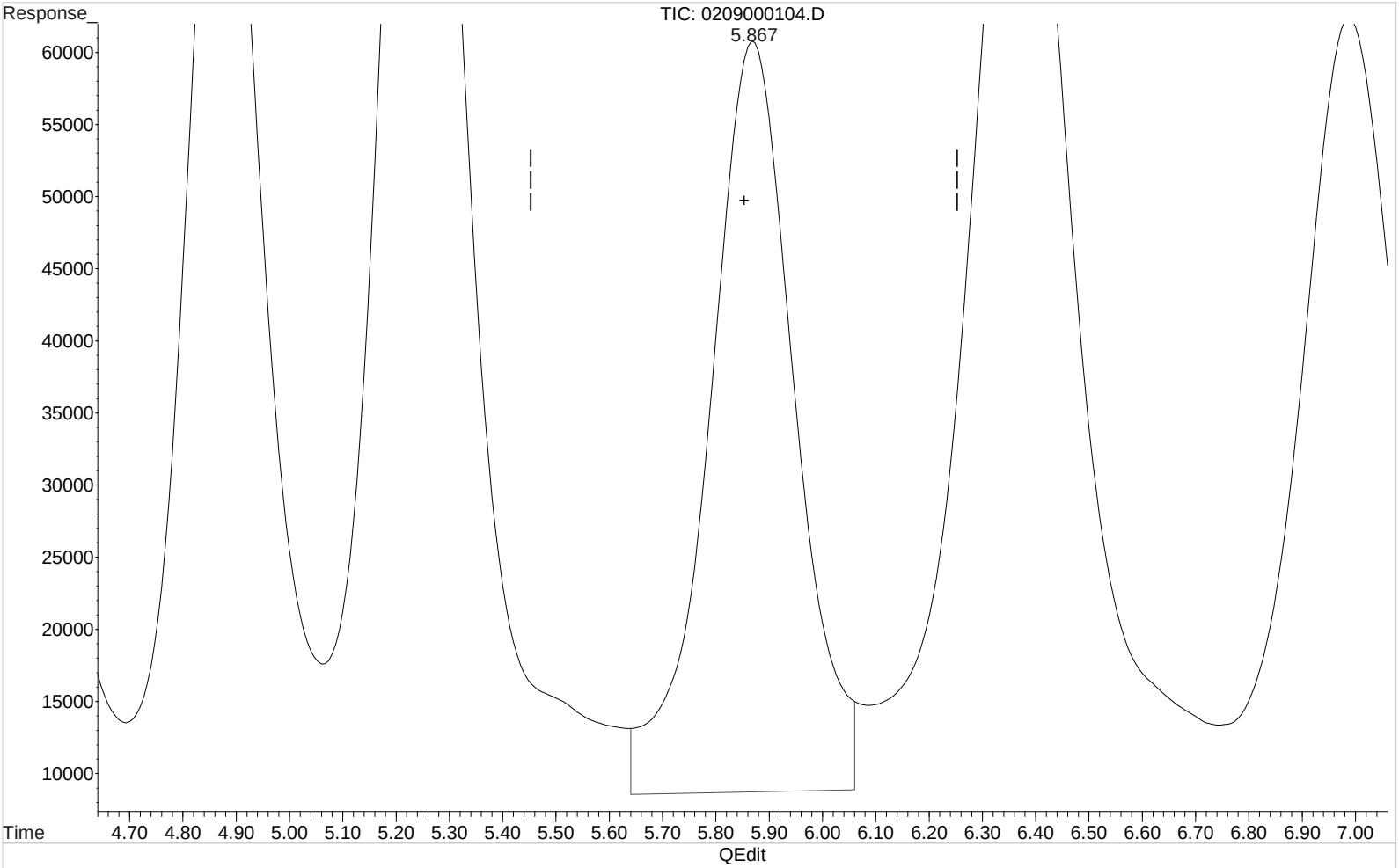
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.867min 24.679 ug/L

response 581023

Manual Integration:

Before

02/13/17

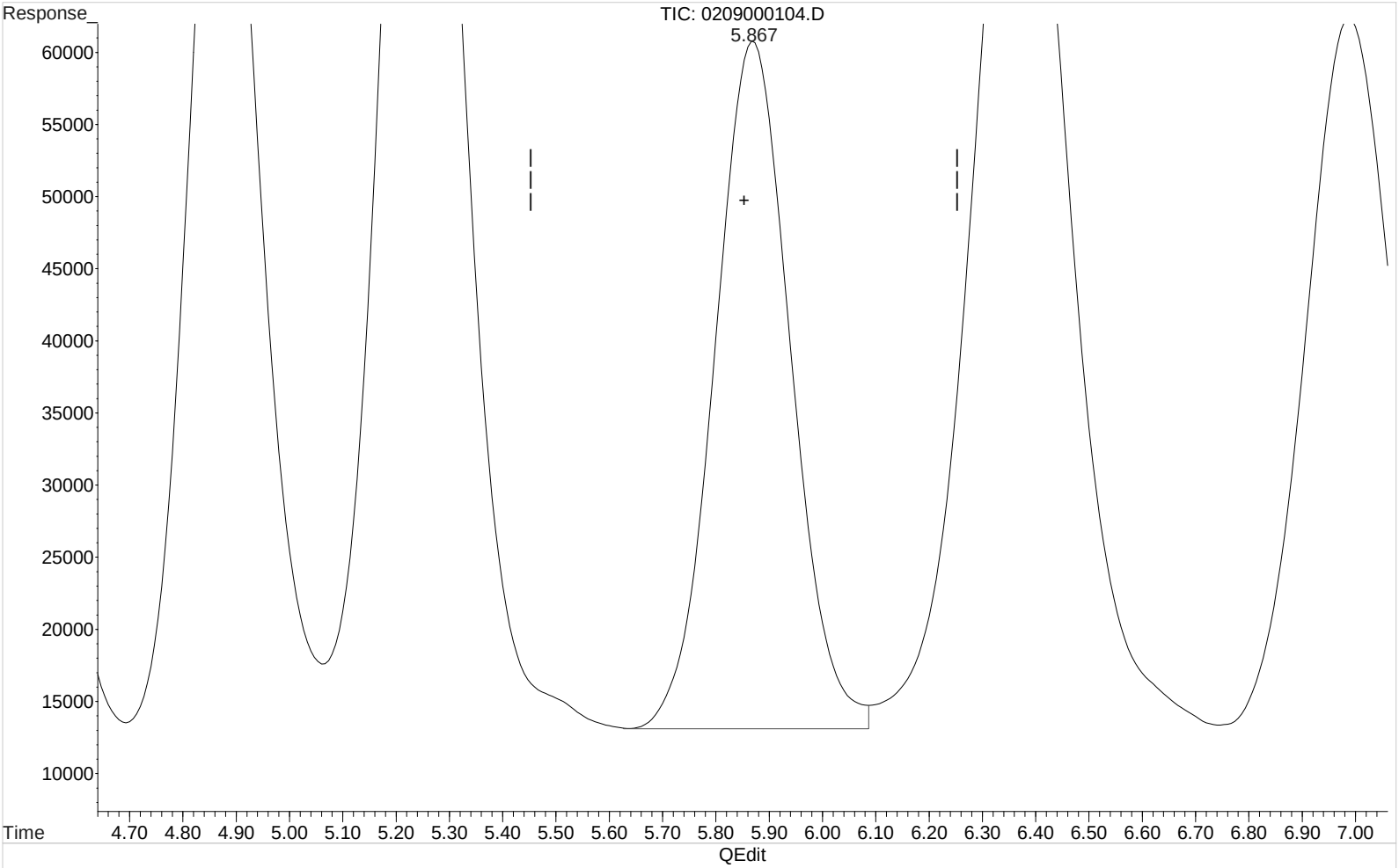
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.867min 20.100 ug/L m

response 473214

Manual Integration:

After

BLC

02/13/17

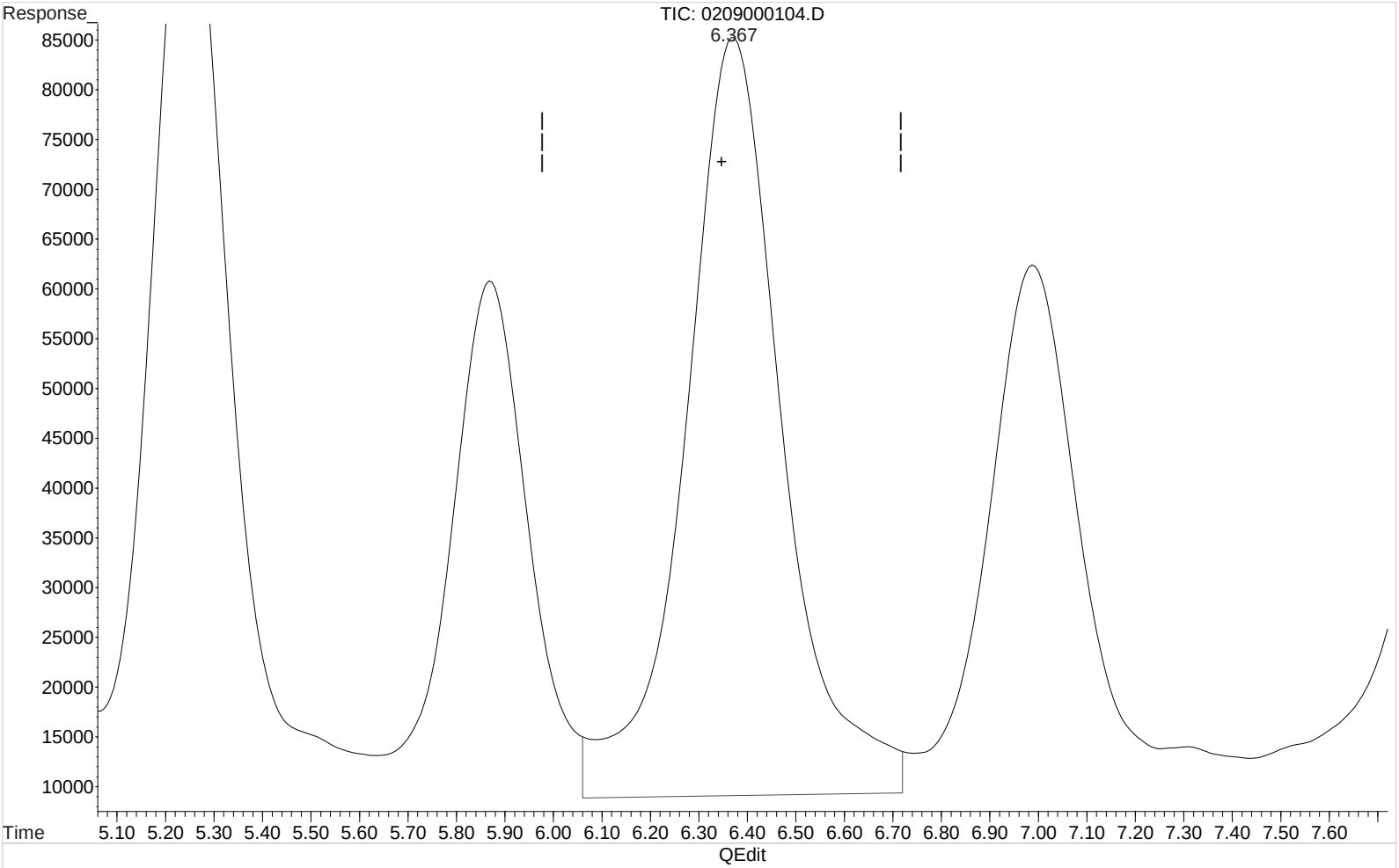
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.367min 25.225 ug/L

response 1057778

Manual Integration:

Before

02/13/17

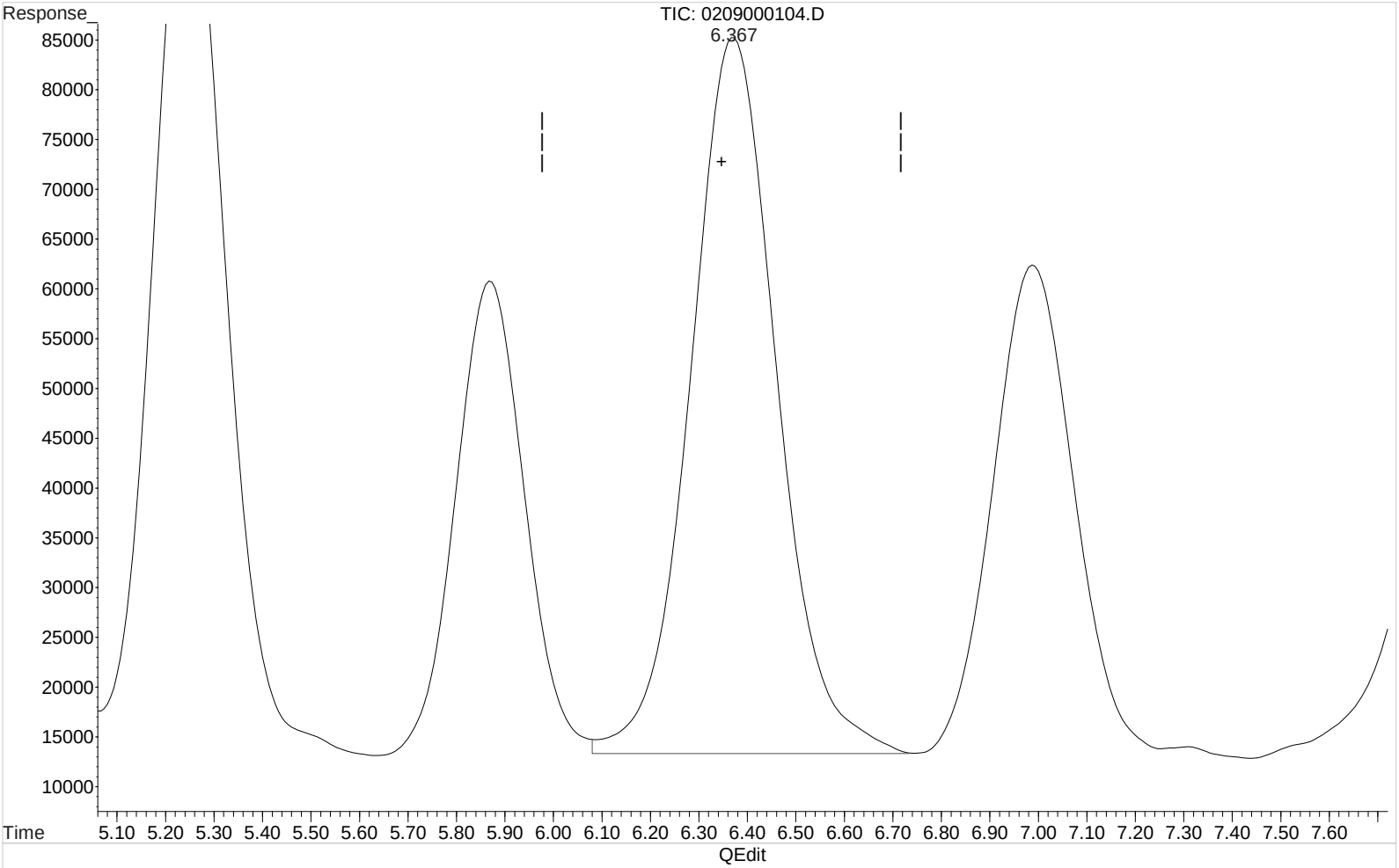
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(7) 2-Amino-4,6-DNT (T)

6.367min 21.218 ug/L m

response 889746

Manual Integration:

After

BLC

02/13/17

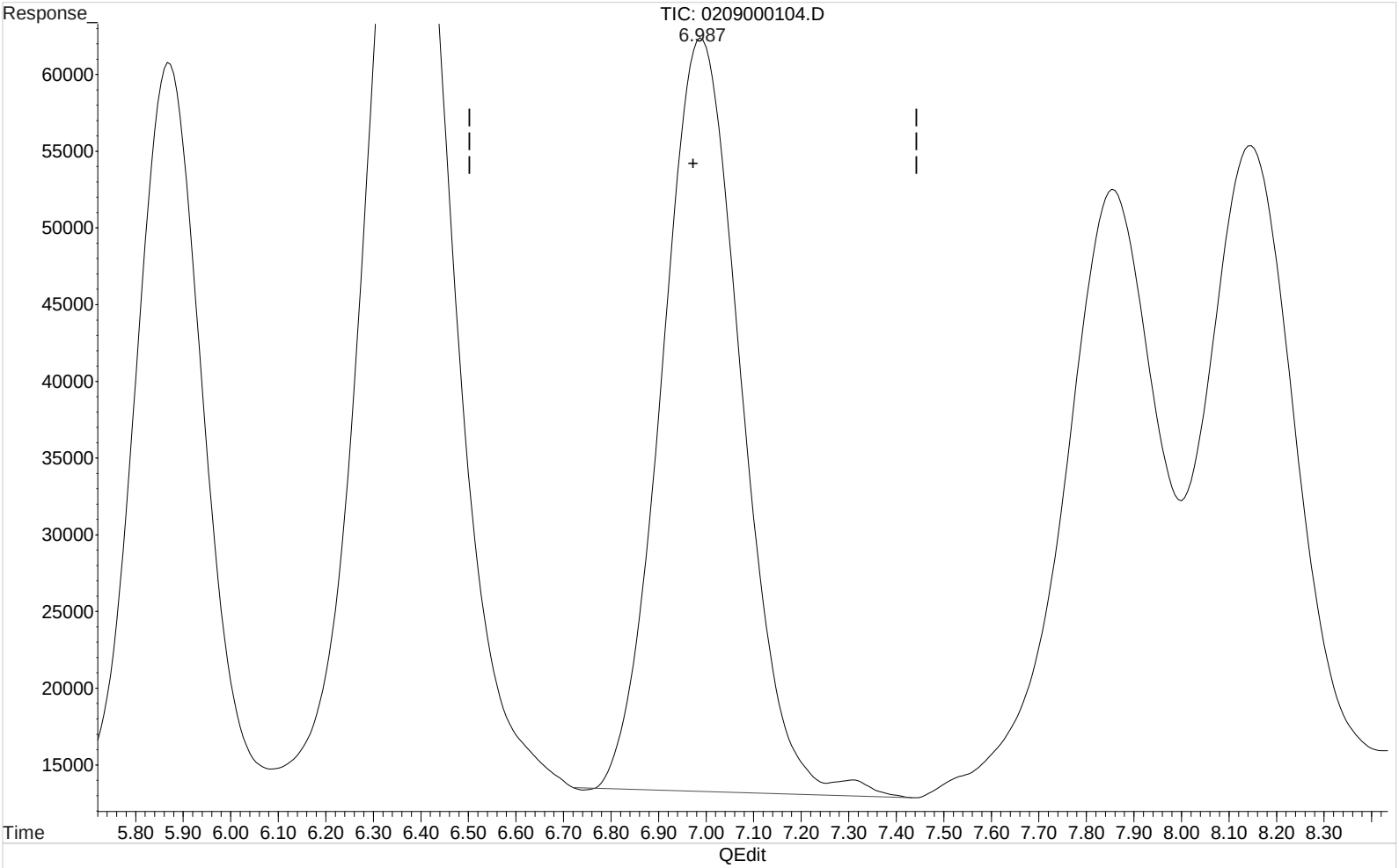
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(8) 3-NT (T)

6.987min 20.561 ug/L

response 573667

Manual Integration:

Before

02/13/17

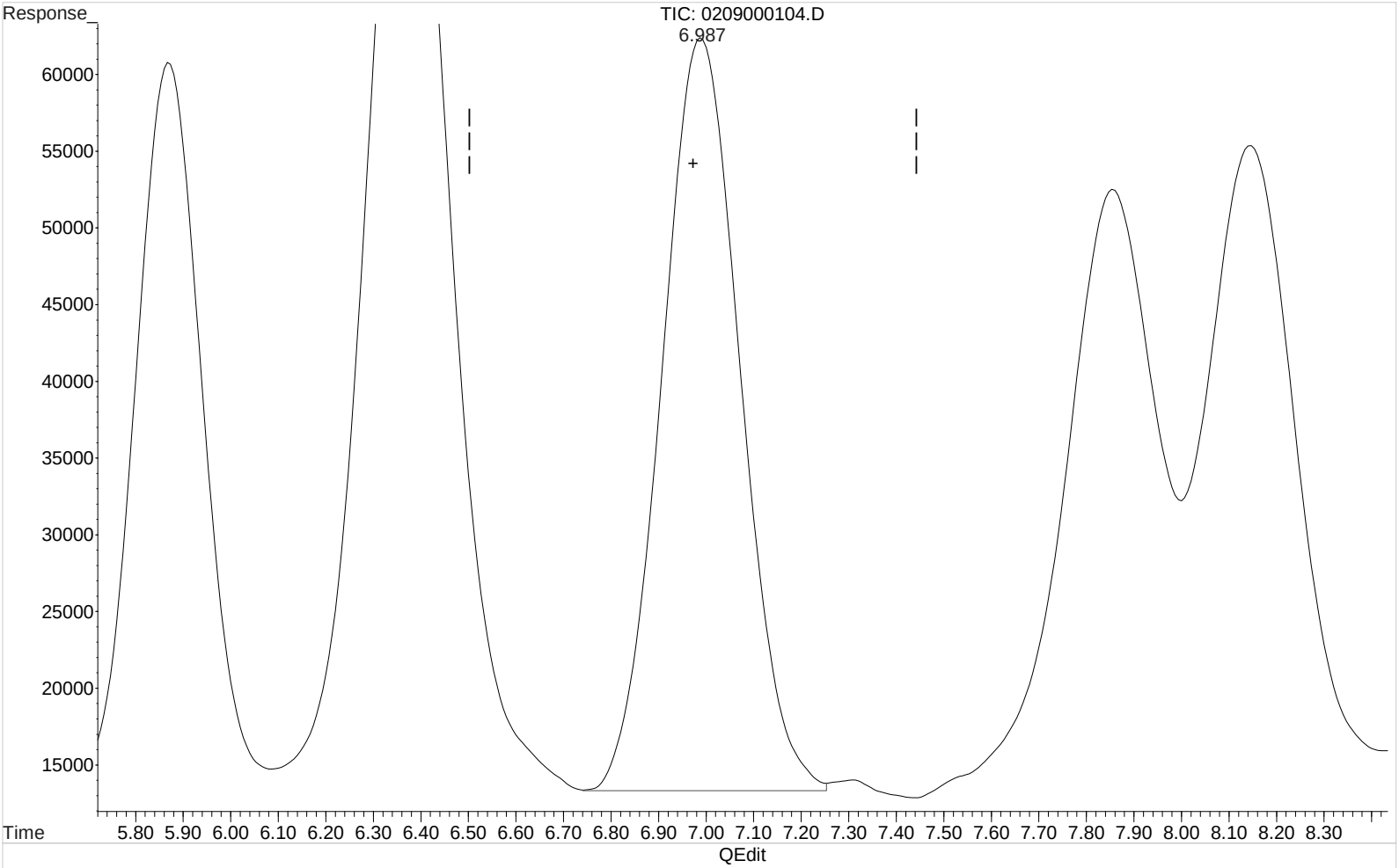
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(8) 3-NT (T)

6.987min 20.307 ug/L m

response 566568

Manual Integration:

After

BLC

02/13/17

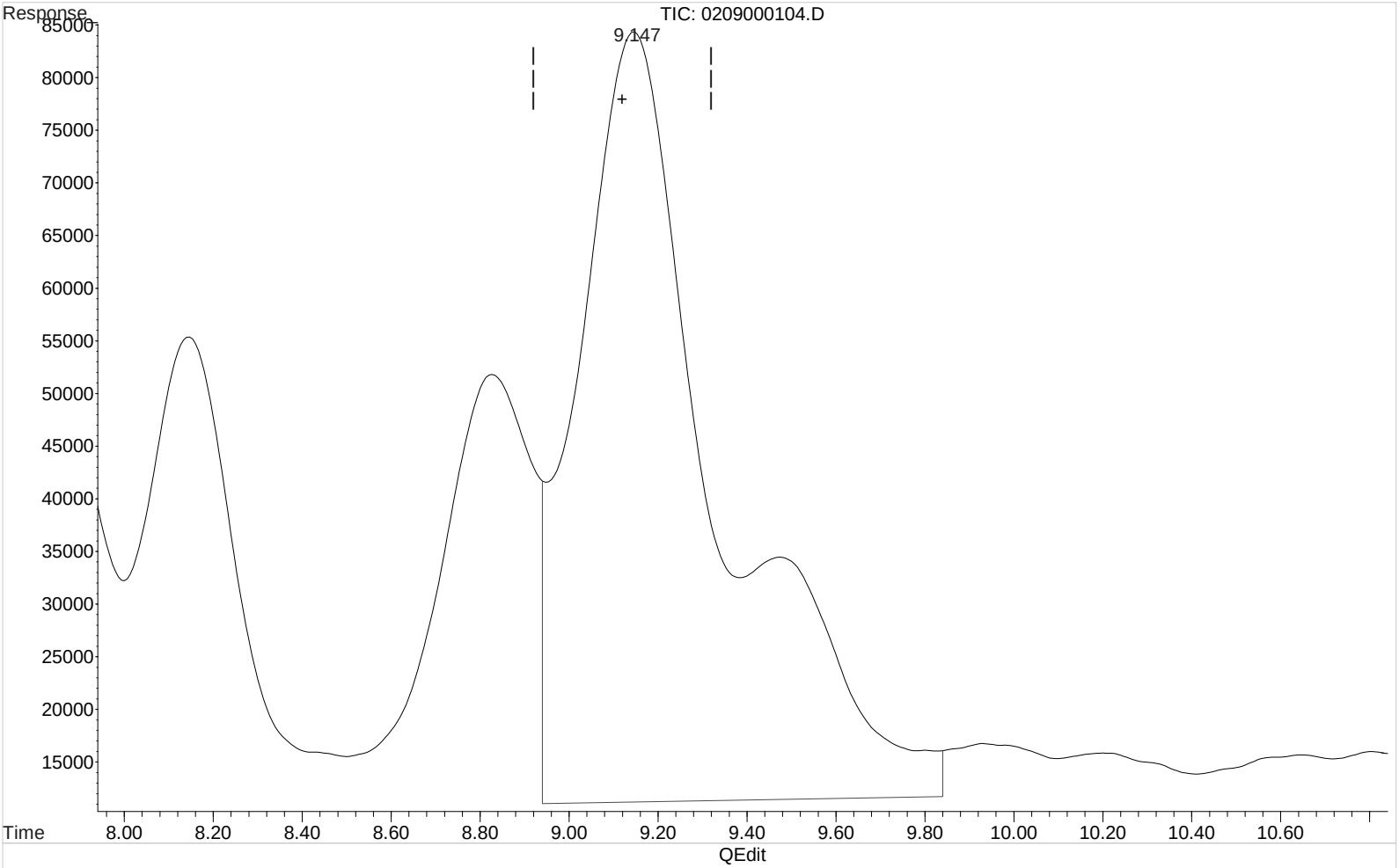
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(9) 1,3-DNB (T)

9.147min 28.638 ug/L

response 1600738

Manual Integration:

Before

02/13/17

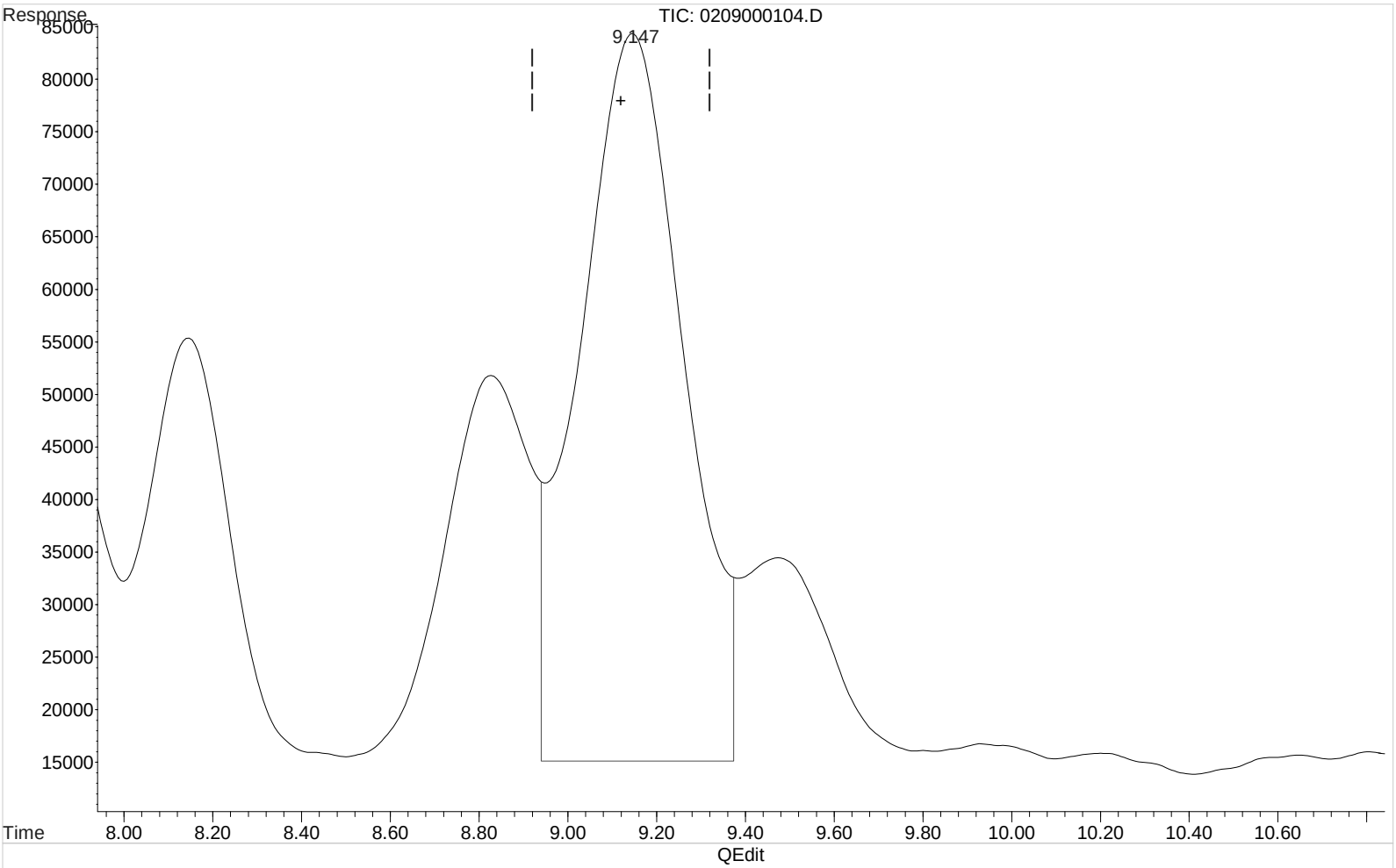
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(9) 1,3-DNB (T)

9.147min 20.188 ug/L m

response 1128441

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:12:28 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
11)	S	1-Chloro-3-Nitrobenzene	8.147	1336894	50.757	ug/L	
		Target Compounds					
1)	T	HMX	2.560	778040	49.560	ug/L	m
2)	T	RDX	2.807	976620	54.310	ug/L	m
3)	T	Nitrobenzene	4.493	1930068	52.121	ug/L	m
4)	T	3,5-Dinitroaniline	5.253	2326297	50.288	ug/L	m
5)	T	4-Amino-2,6-DNT	4.880	1640782	51.865	ug/L	m
6)	T	2-NT	5.873	1175129	49.902	ug/L	m
7)	T	2-Amino-4,6-DNT	6.373	2151466	51.475	ug/L	
8)	T	3-NT	6.993	1417335	50.902	ug/L	
9)	T	1,3-DNB	9.147	2937294	52.887	ug/L	
10)	T	4-NT	7.853	1198086	52.690	ug/L	m
12)	T	2,6-DNT	8.833	1216672	49.709	ug/L	
13)	T	2,4-DNT	14.827	2785081	54.635	ug/L	
14)	T	Tetryl	13.013	1450932	49.712	ug/L	m
15)	T	1,3,5-TNB	19.827	2198383	53.482	ug/L	m
16)	T	2,4,6-TNT	20.813	1897768	49.120	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:12:28 2017
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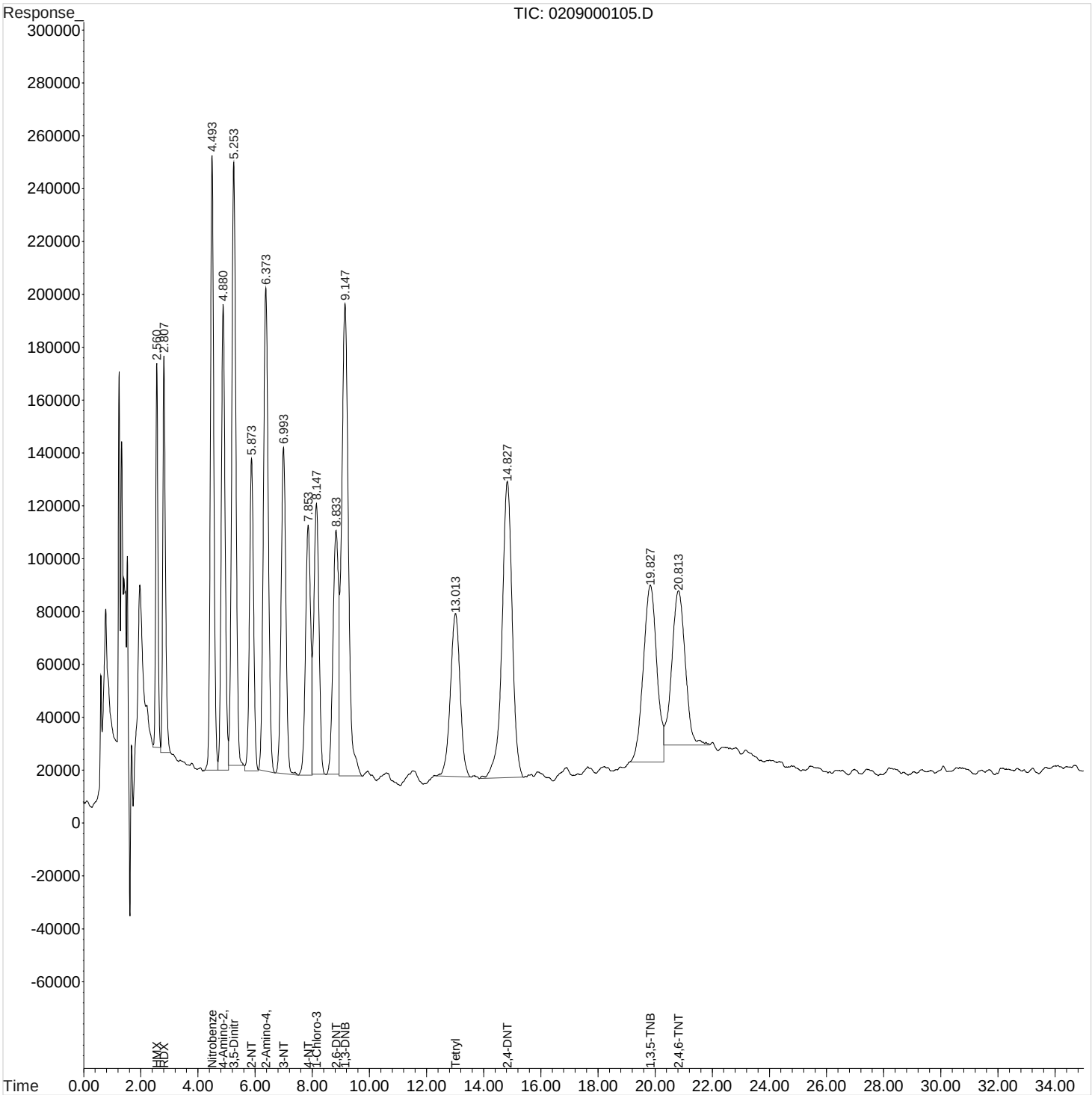
Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(b) (6)

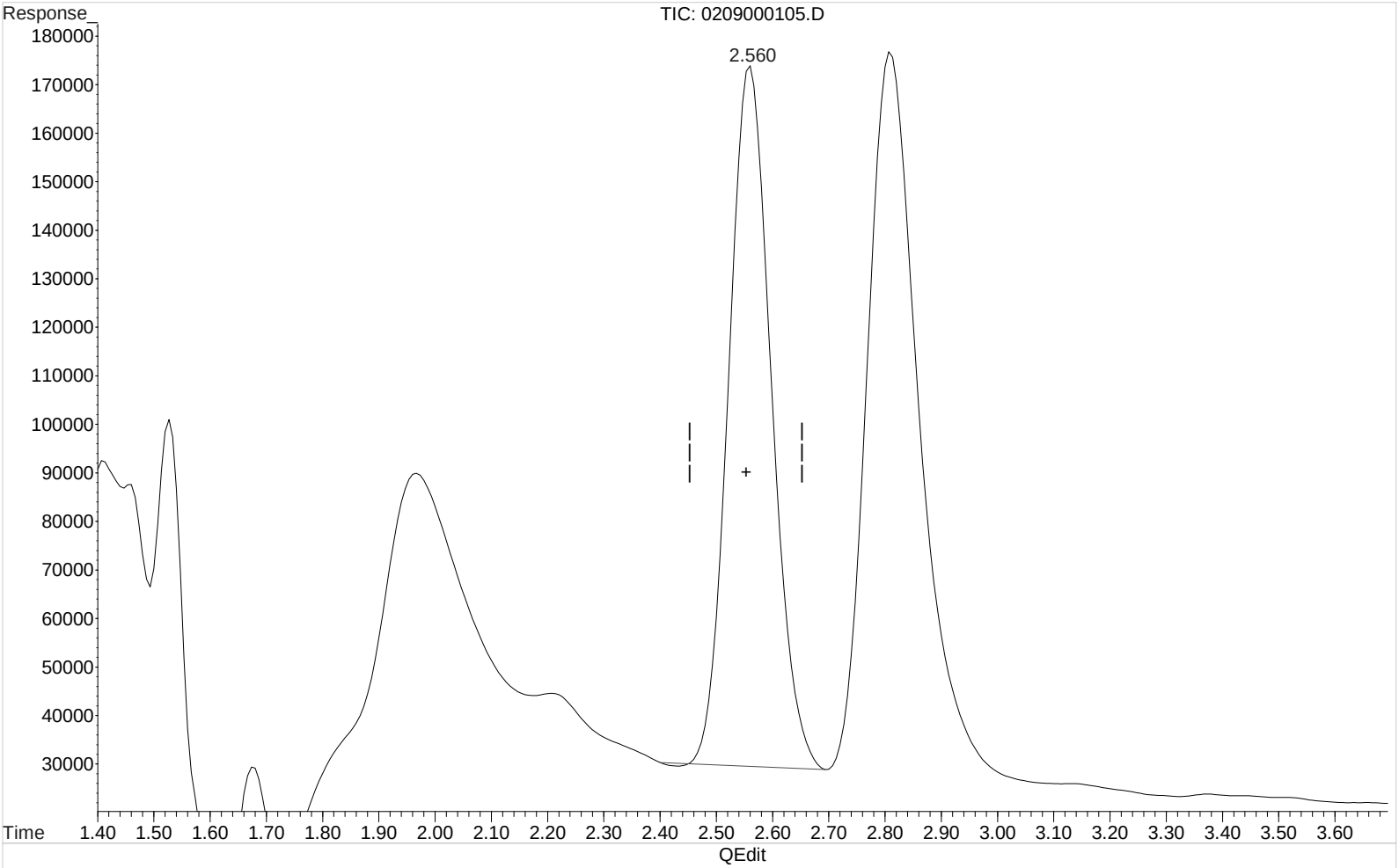
2/13/17

2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.560min 48.616 ug/L

response 763221

Manual Integration:

Before

02/13/17

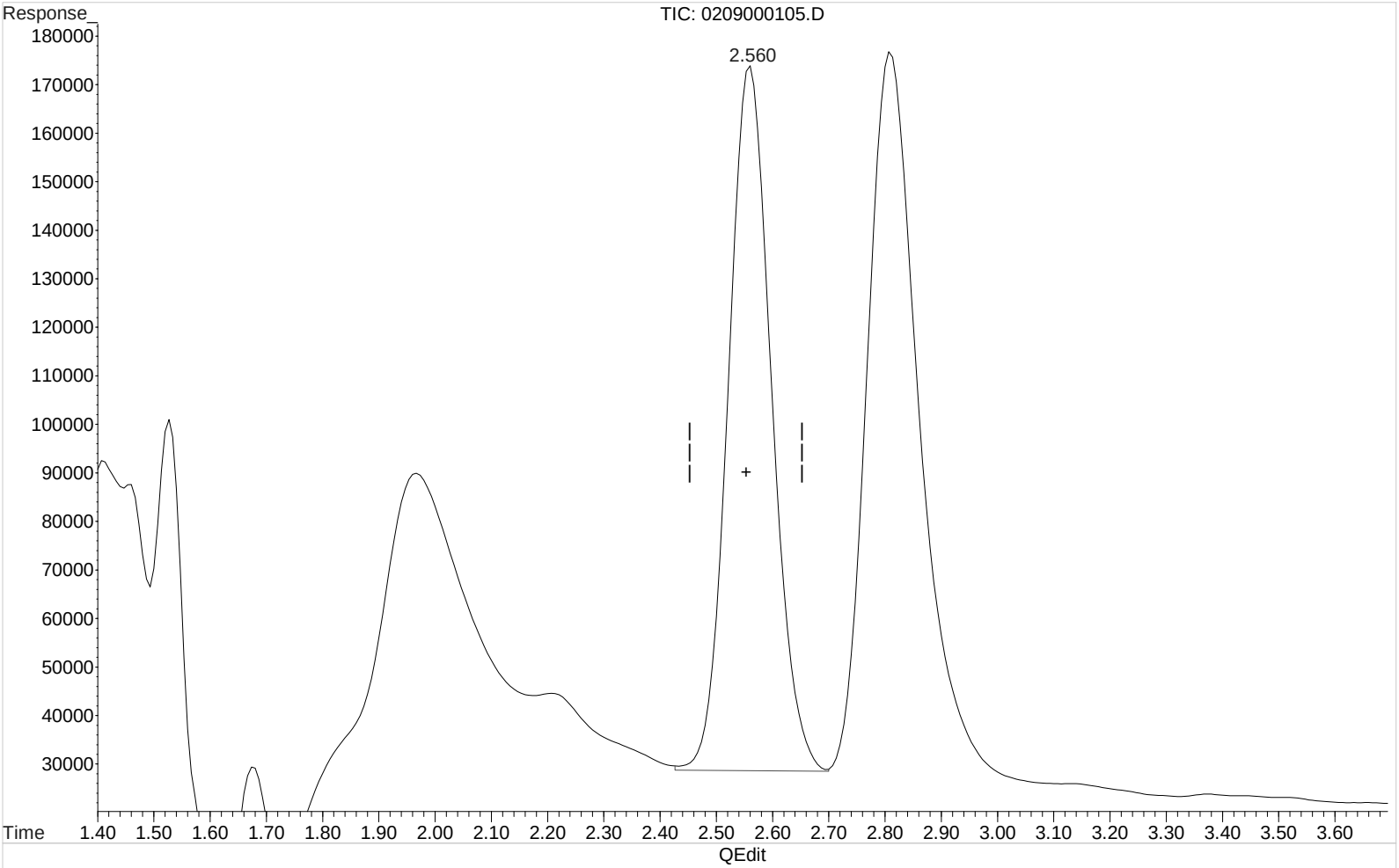
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.560min 49.560 ug/L m

response 778040

Manual Integration:

After

BLC

02/13/17

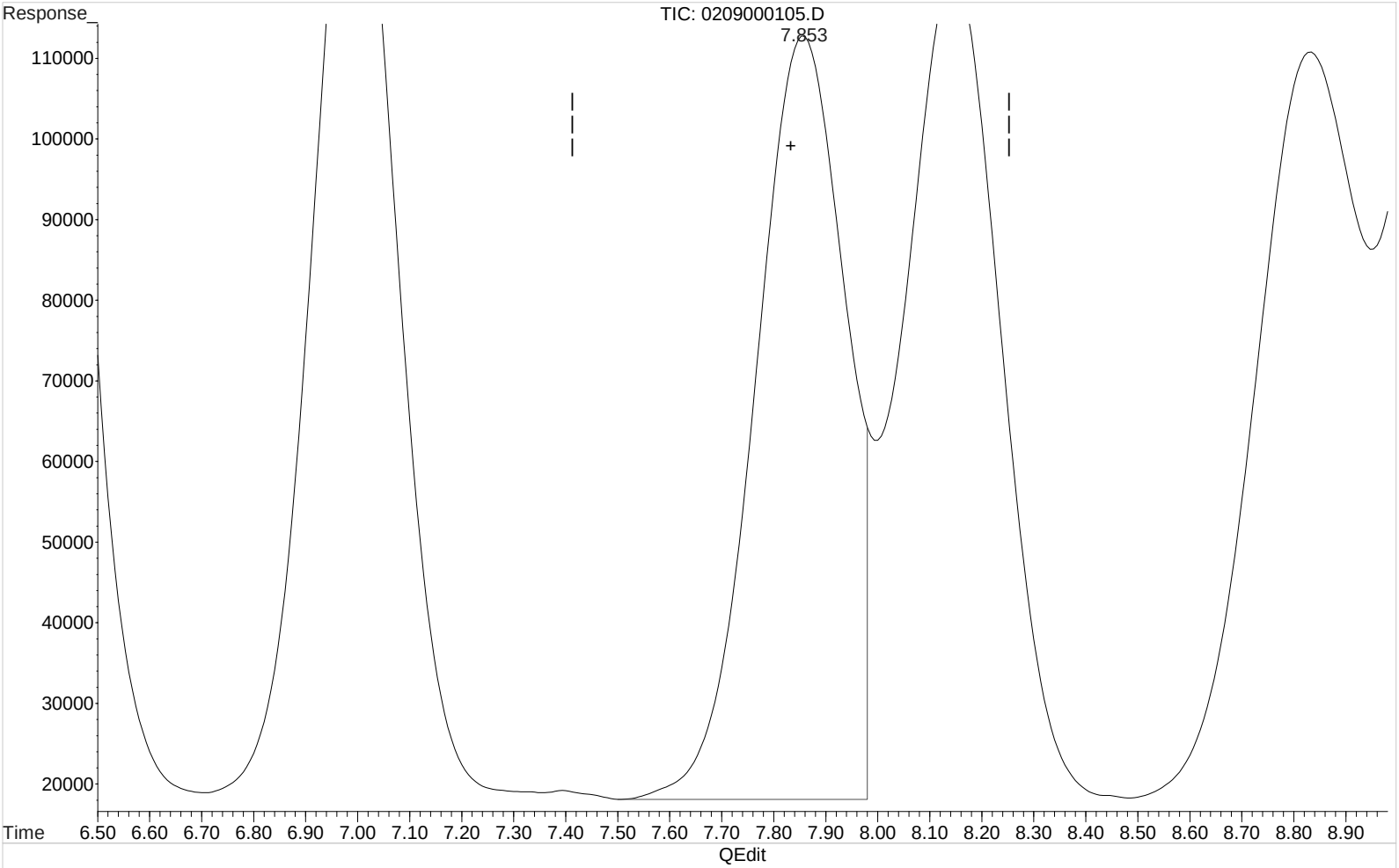
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.853min 50.394 ug/L

response 1145870

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
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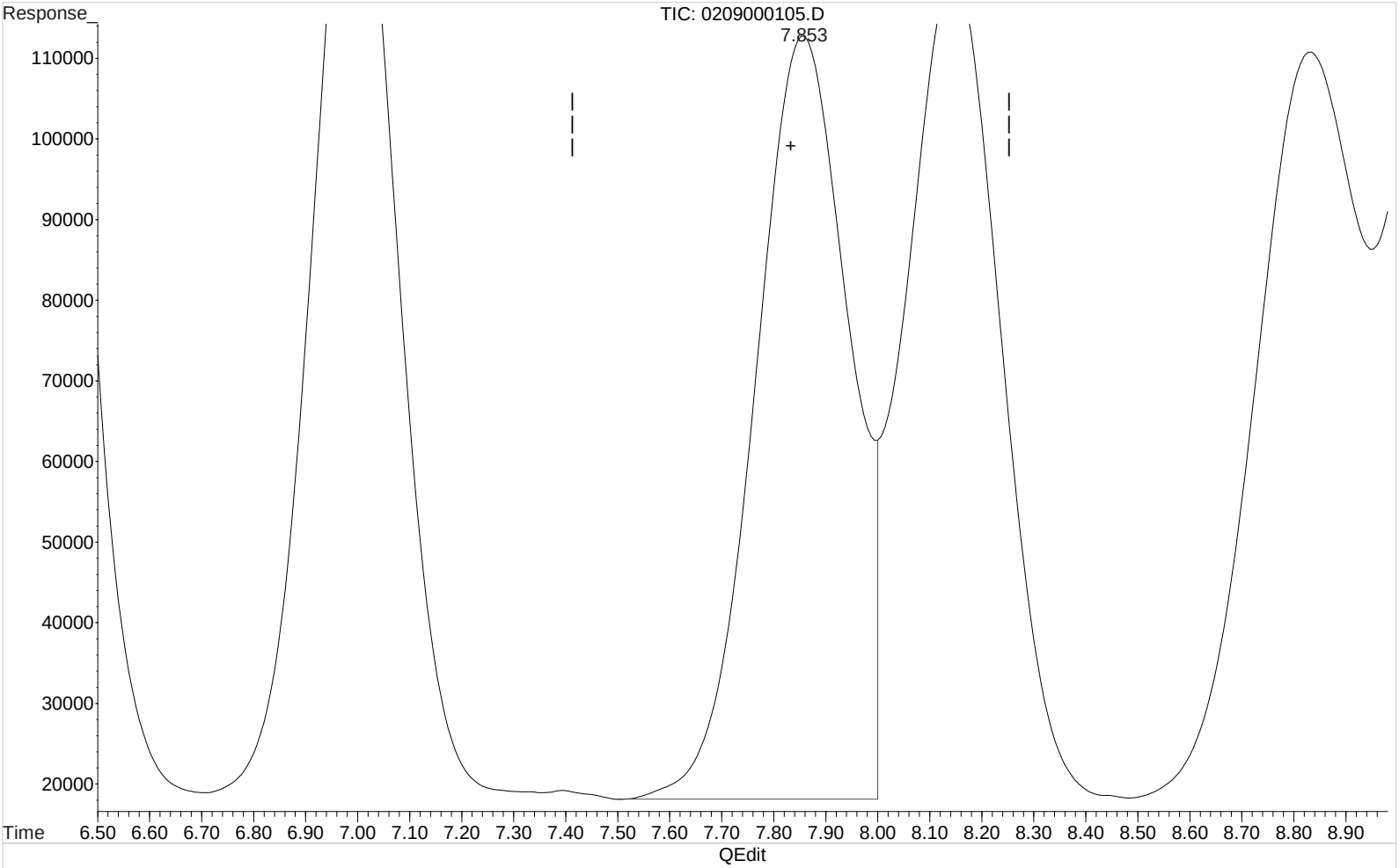
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.853min 52.690 ug/L m

response 1198086

Manual Integration:

After

BLC

02/13/17

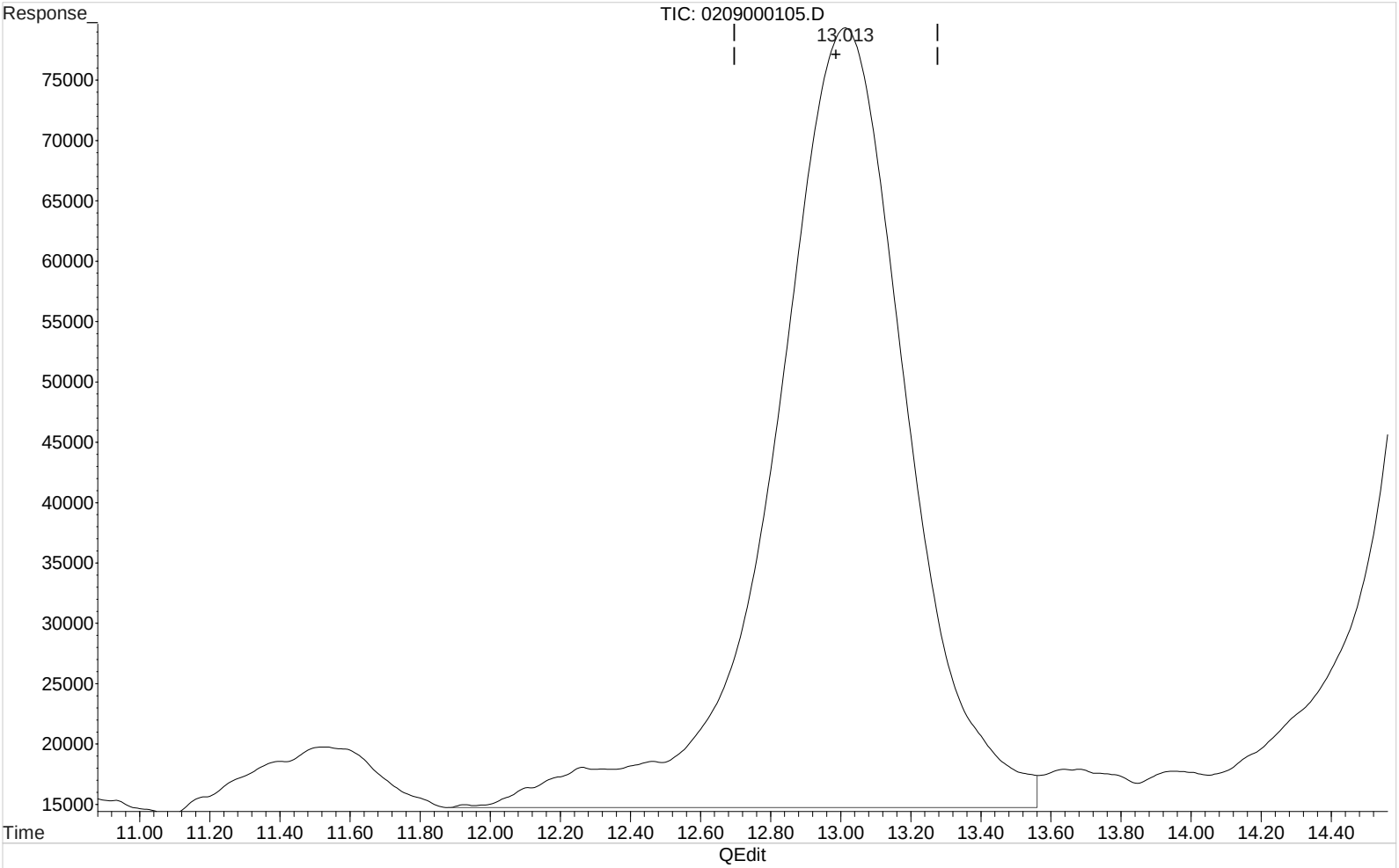
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(14) Tetryl (T)

13.013min 58.523 ug/L

response 1708087

Manual Integration:

Before

02/13/17

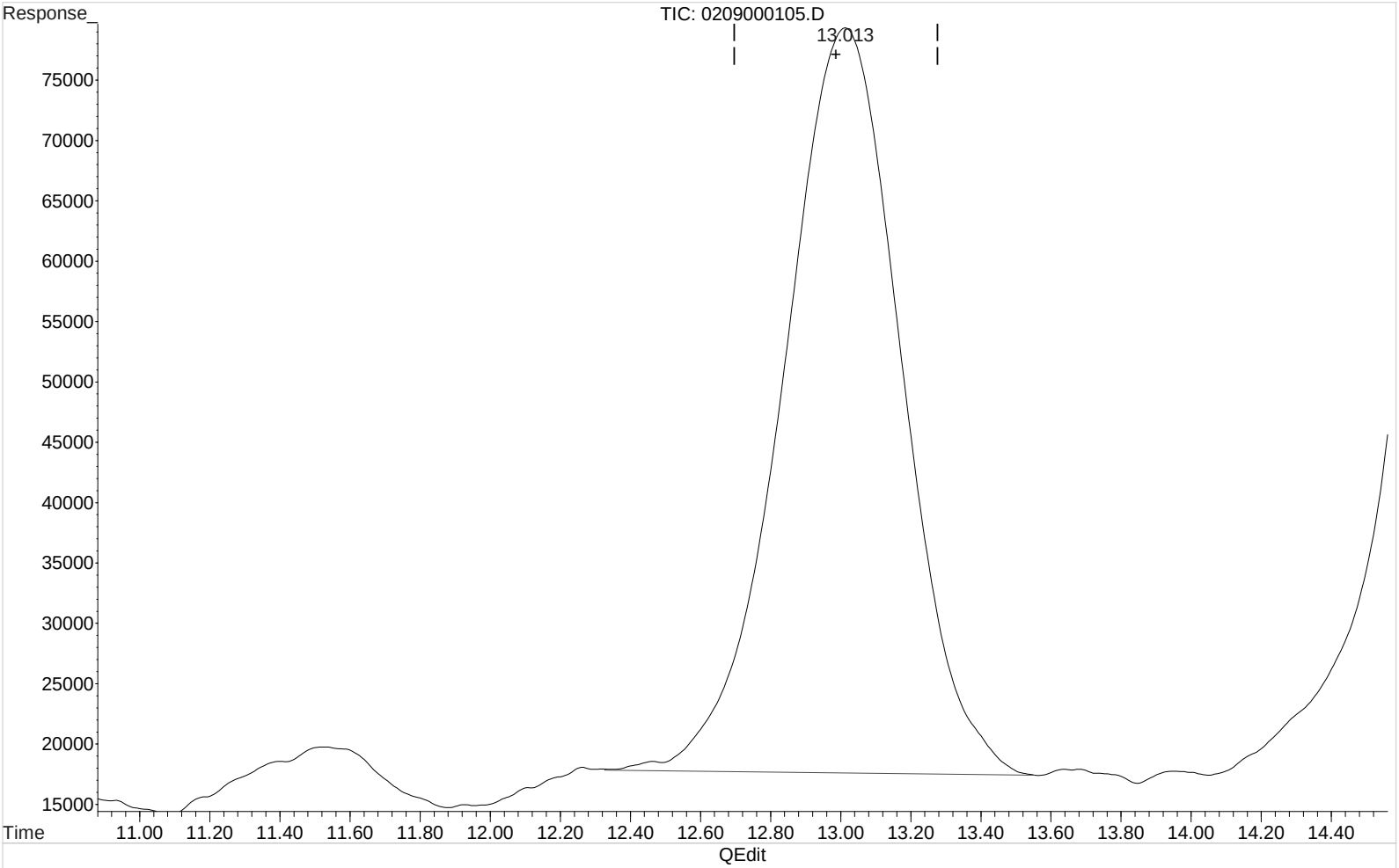
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(14) Tetryl (T)

13.013min 49.712 ug/L m

response 1450932

Manual Integration:

After

BLC

02/13/17

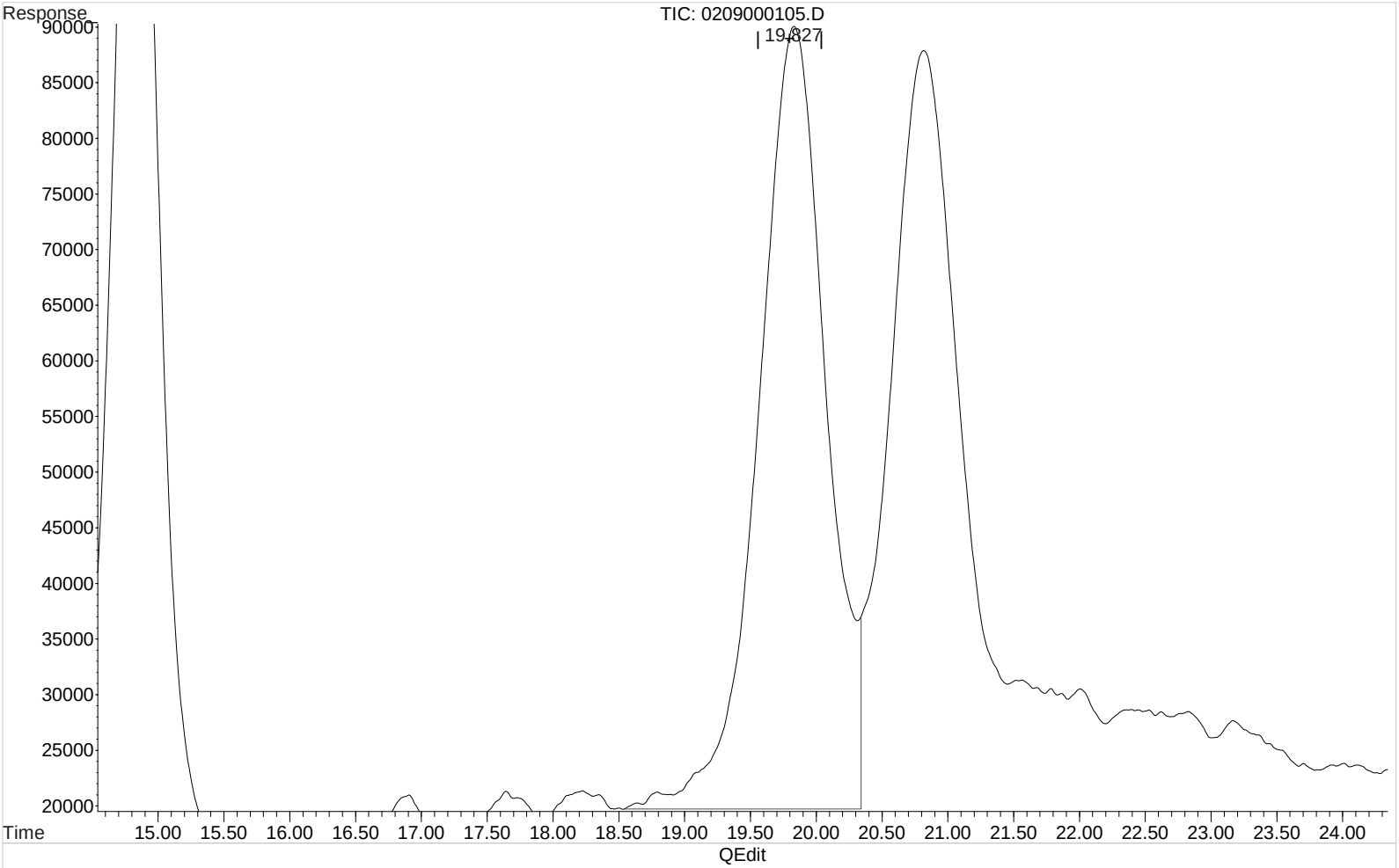
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(15) 1,3,5-TNB (T)

19.827min 61.425 ug/L

response 2524868

Manual Integration:

Before

02/13/17

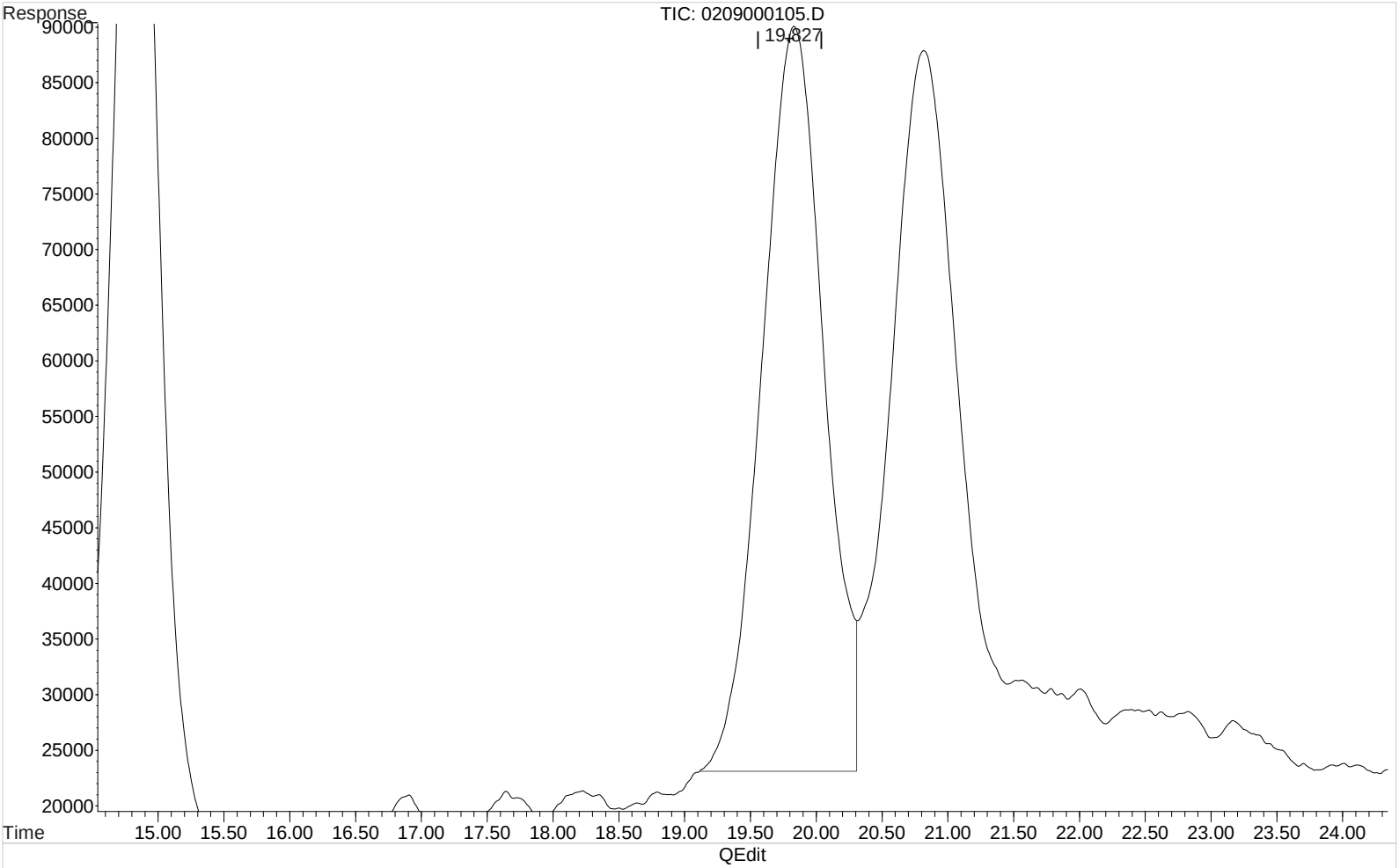
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(15) 1,3,5-TNB (T)

19.827min 53.482 ug/L m

response 2198383

Manual Integration:

After

BLC

02/13/17

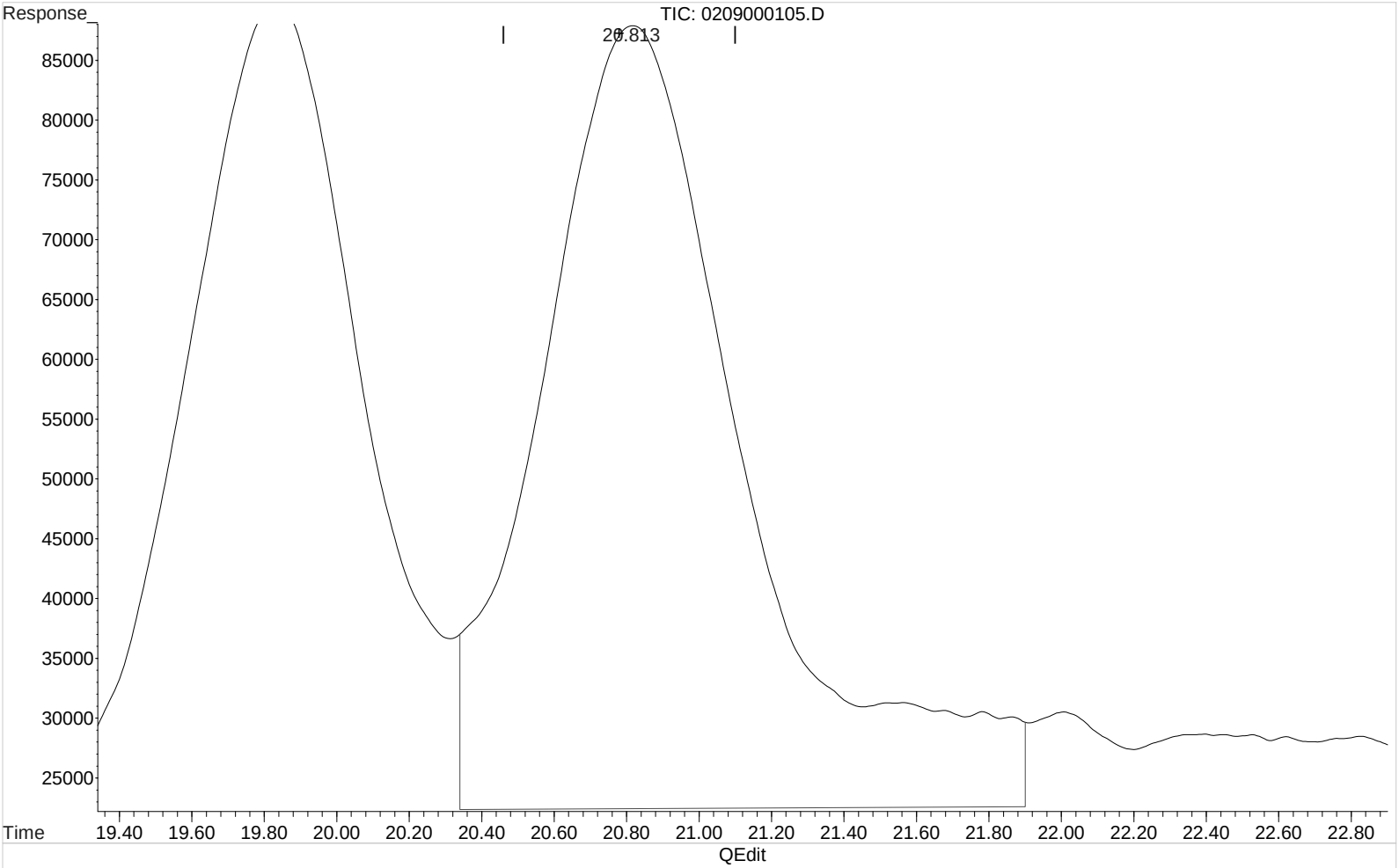
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(16) 2,4,6-TNT (T)

20.813min 65.772 ug/L

response 2541132

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

(b) (6)

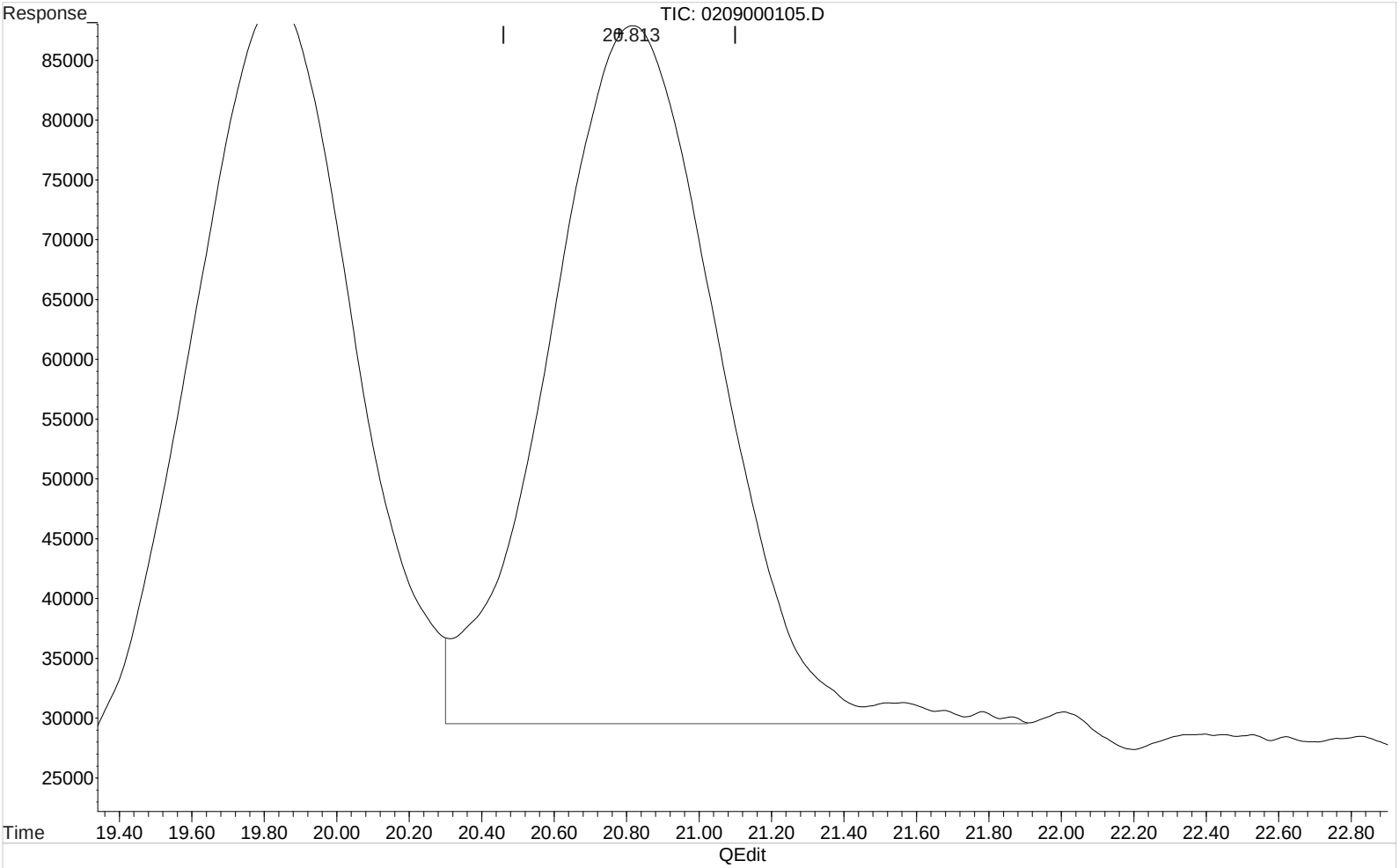
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(16) 2,4,6-TNT (T)

20.813min 49.120 ug/L m

response 1897768

Manual Integration:

After

BLC

02/13/17

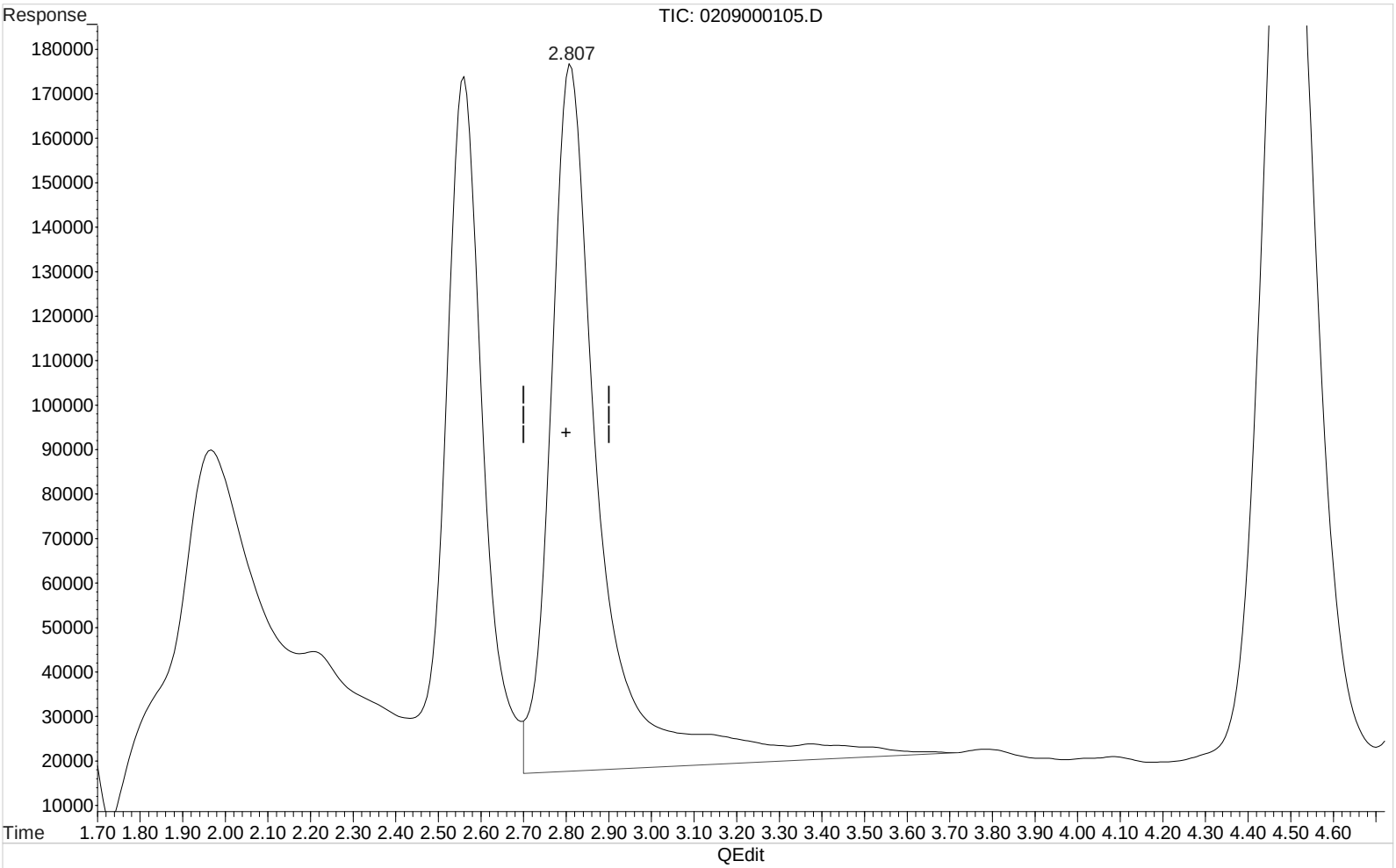
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.807min 71.943 ug/L

response 1293711

Manual Integration:

Before

02/13/17

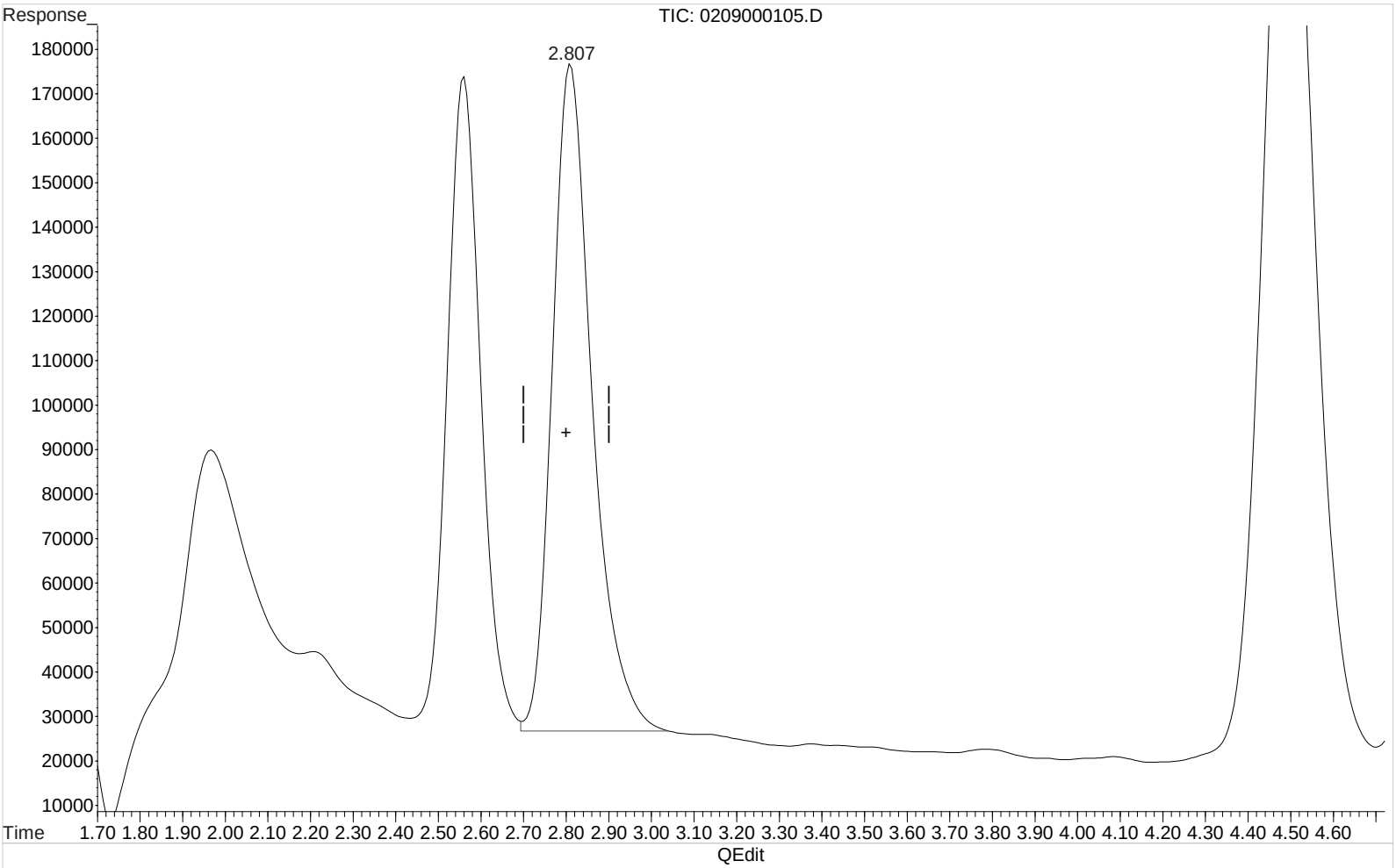
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.807min 54.310 ug/L m

response 976620

Manual Integration:

After

BLC

02/13/17

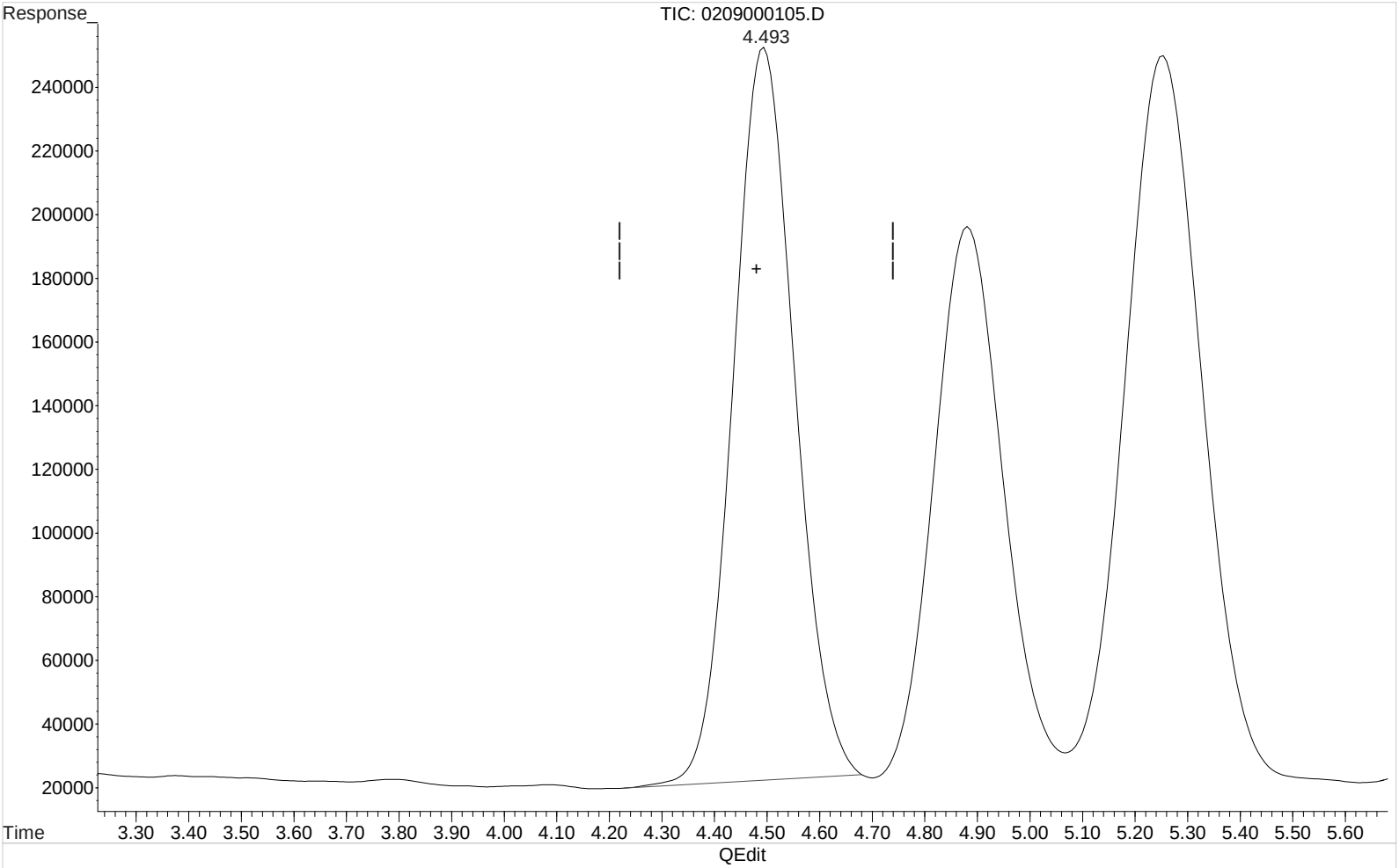
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.493min 50.613 ug/L

response 1874219

Manual Integration:

Before

02/13/17

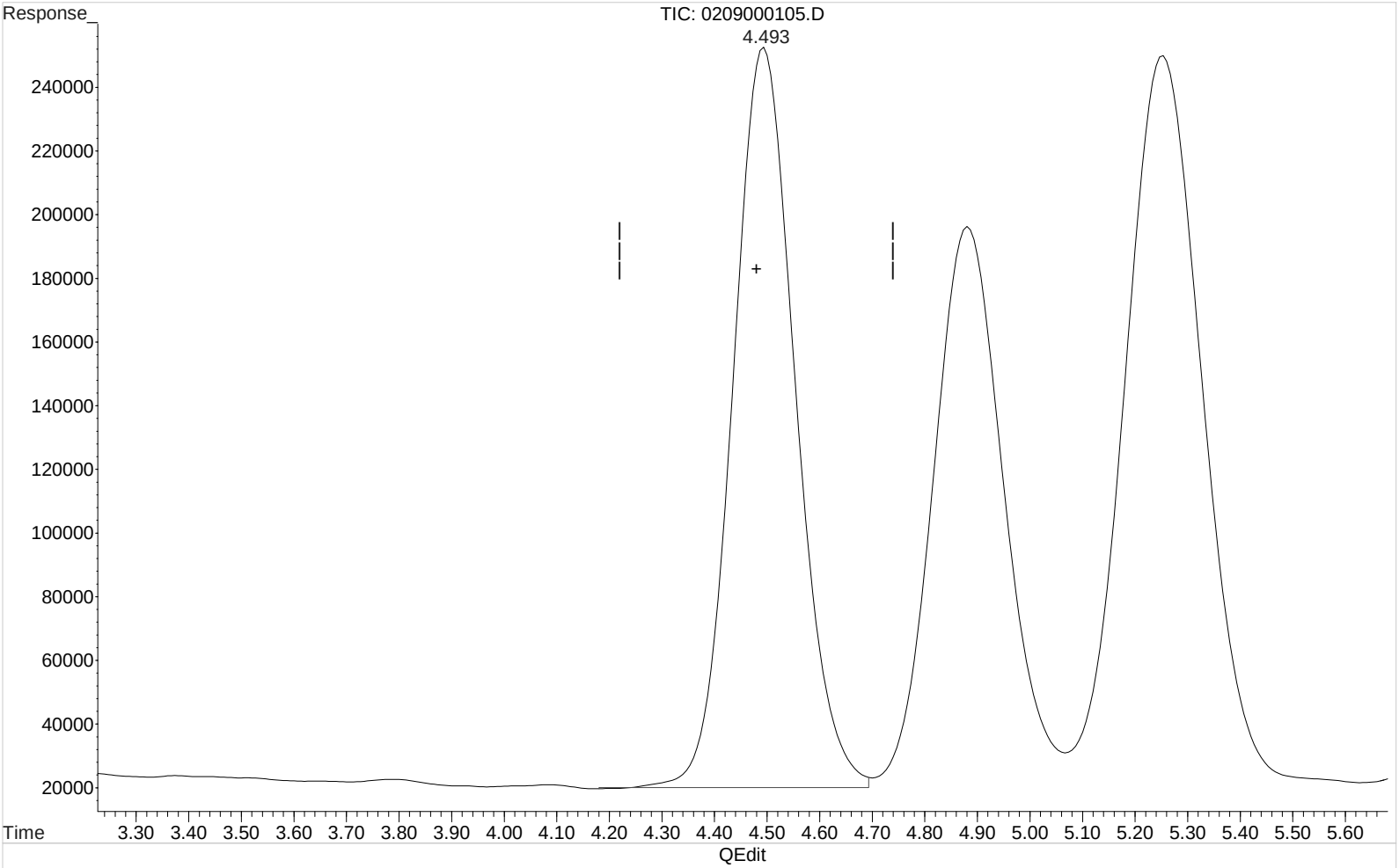
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.493min 52.121 ug/L m

response 1930068

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
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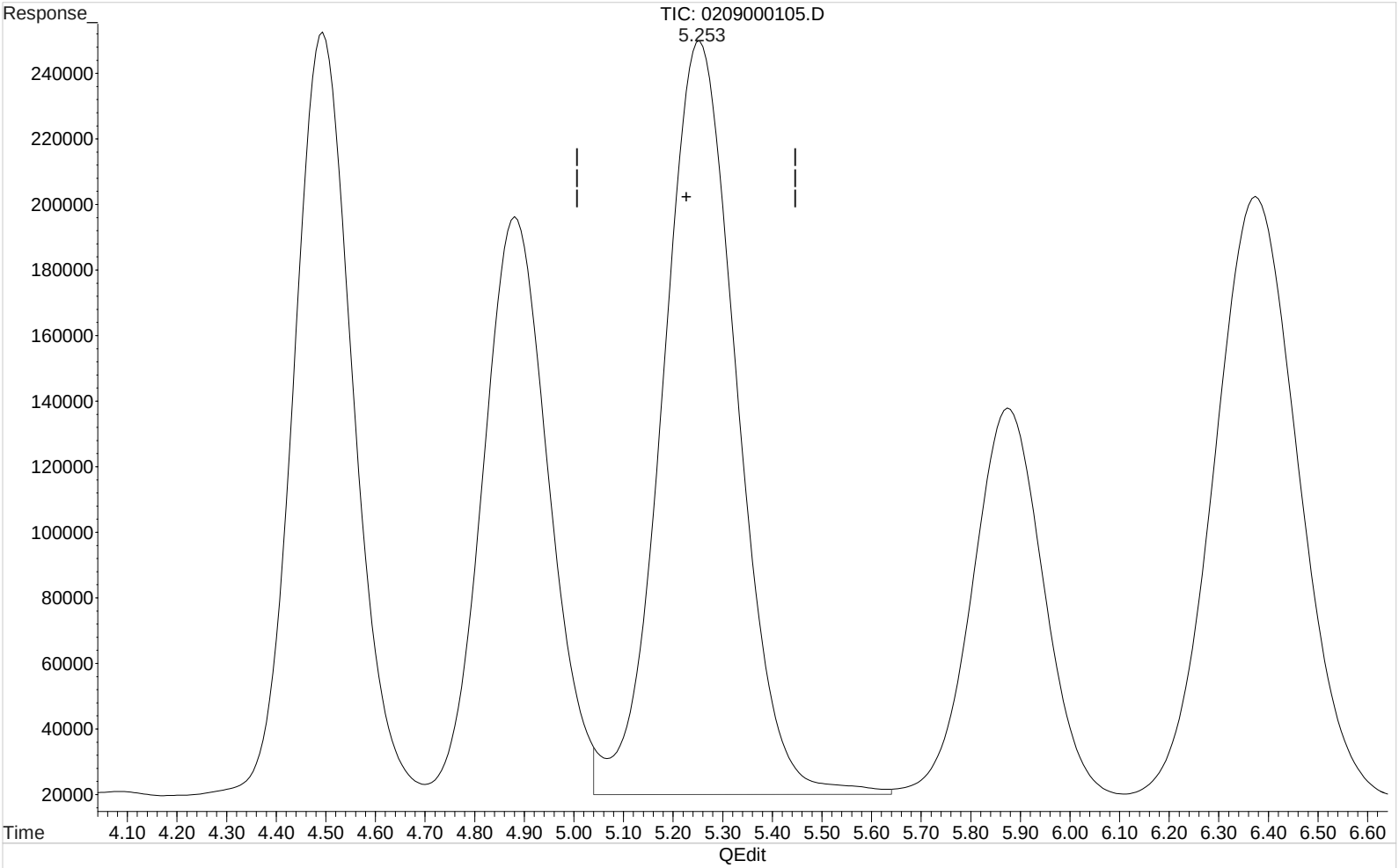
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(4) 3,5-Dinitroaniline (T)

5.253min 51.967 ug/L

response 2403967

Manual Integration:

Before

02/13/17

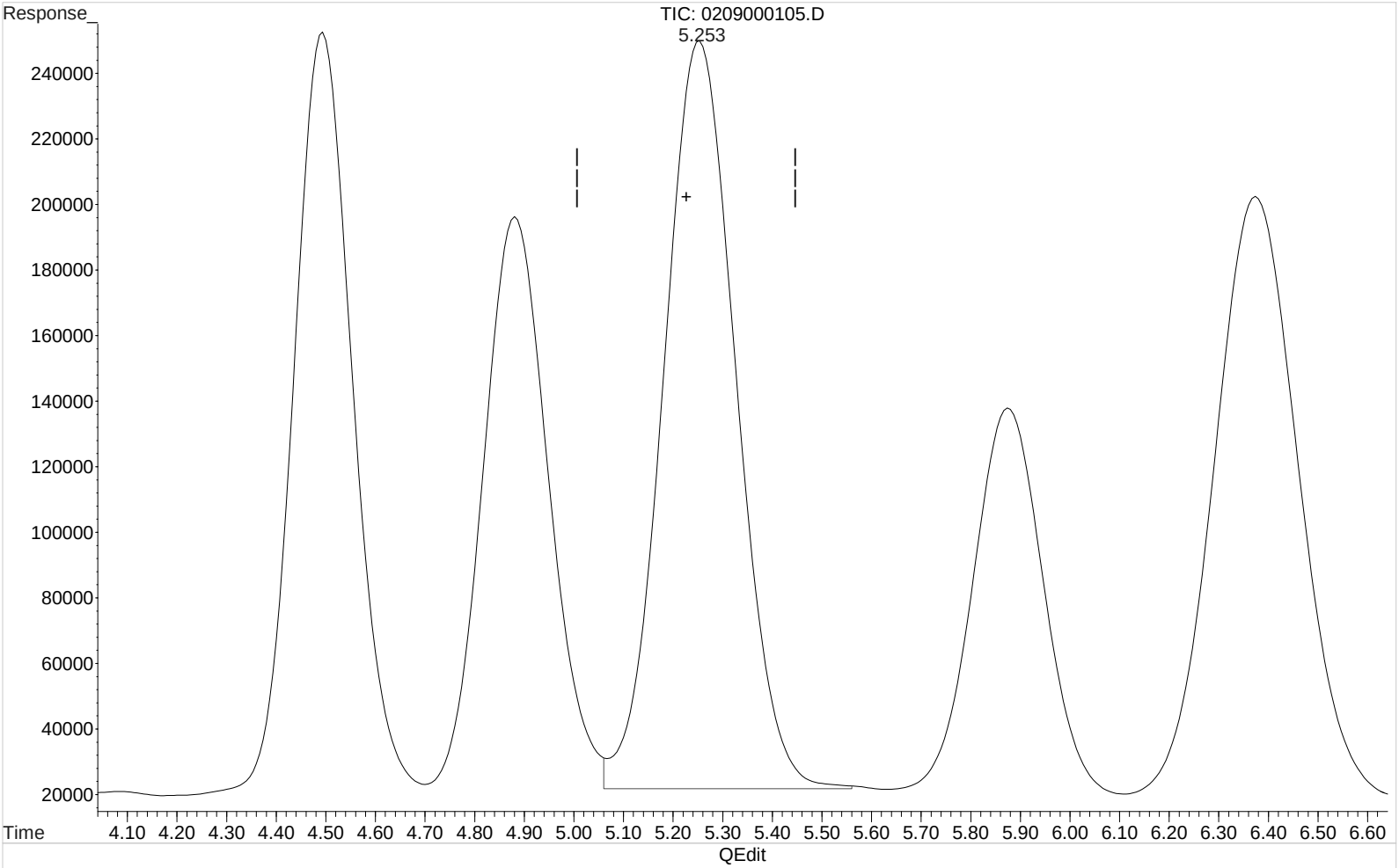
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(4) 3,5-Dinitroaniline (T)

5.253min 50.288 ug/L m

response 2326297

Manual Integration:

After

BLC

02/13/17

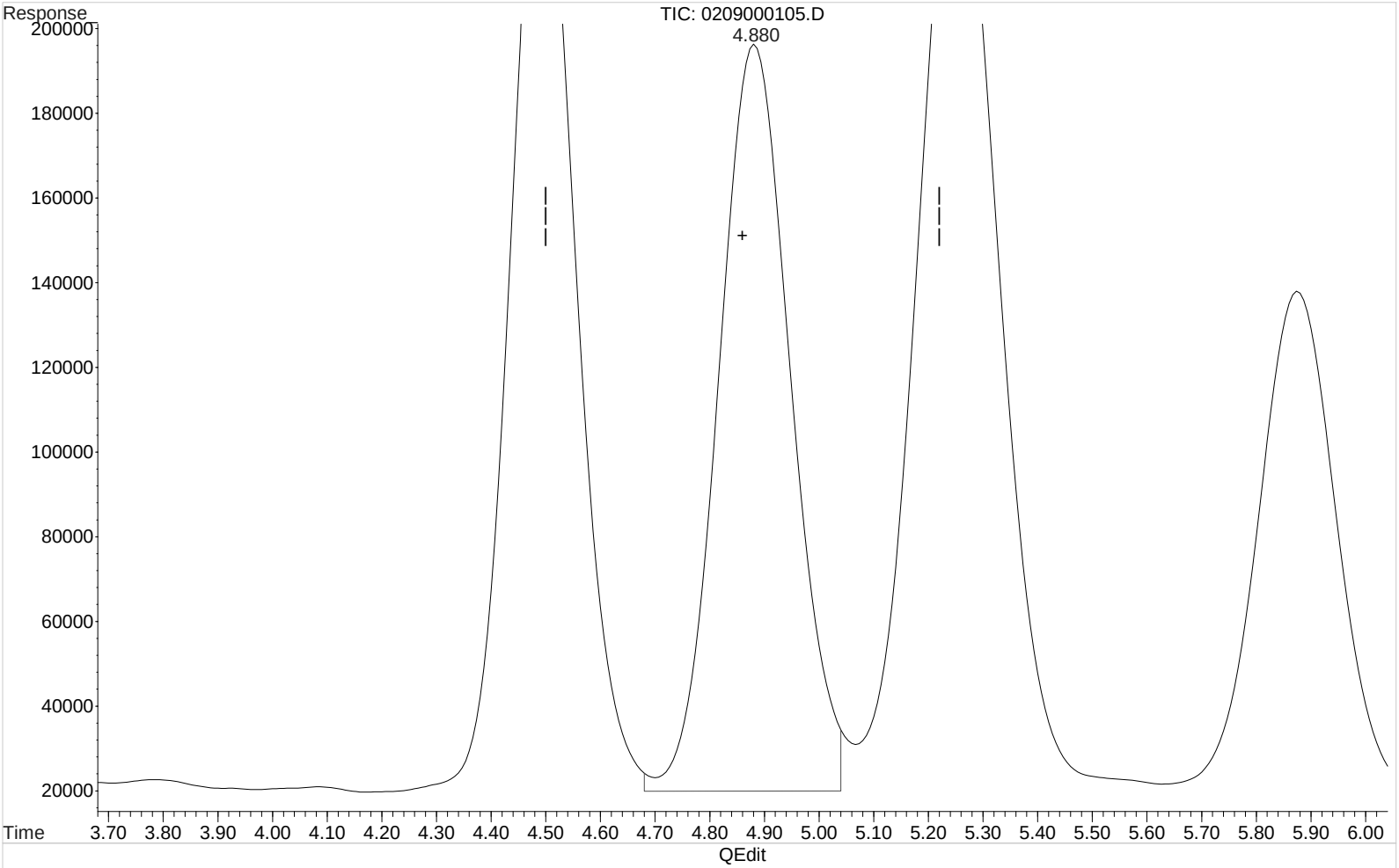
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(5) 4-Amino-2,6-DNT (T)

4.880min 51.450 ug/L

response 1627659

Manual Integration:

Before

02/13/17

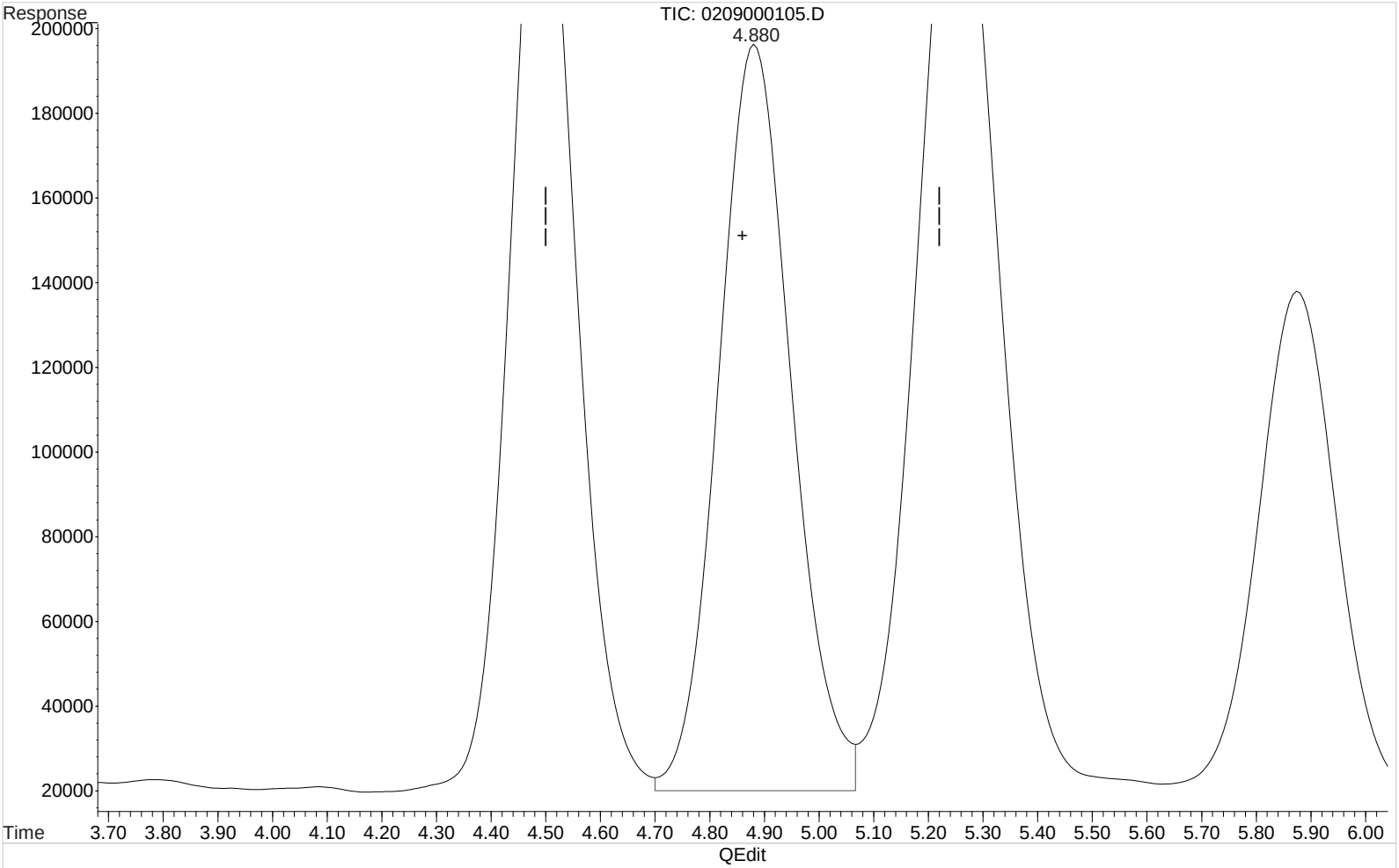
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(5) 4-Amino-2,6-DNT (T)

4.880min 51.865 ug/L m

response 1640782

Manual Integration:

After

BLC

02/13/17

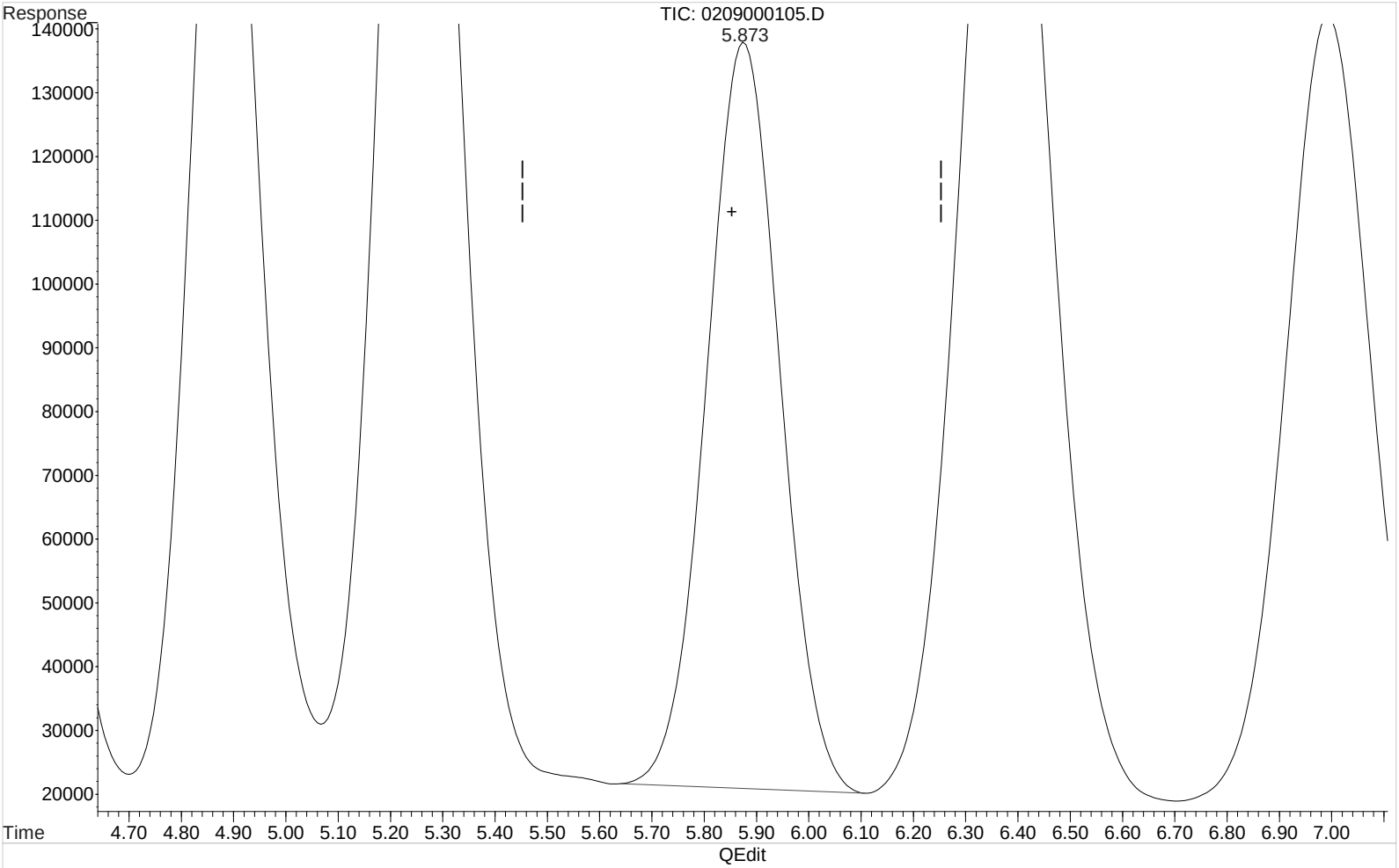
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.873min 48.523 ug/L

response 1142649

Manual Integration:

Before

02/13/17

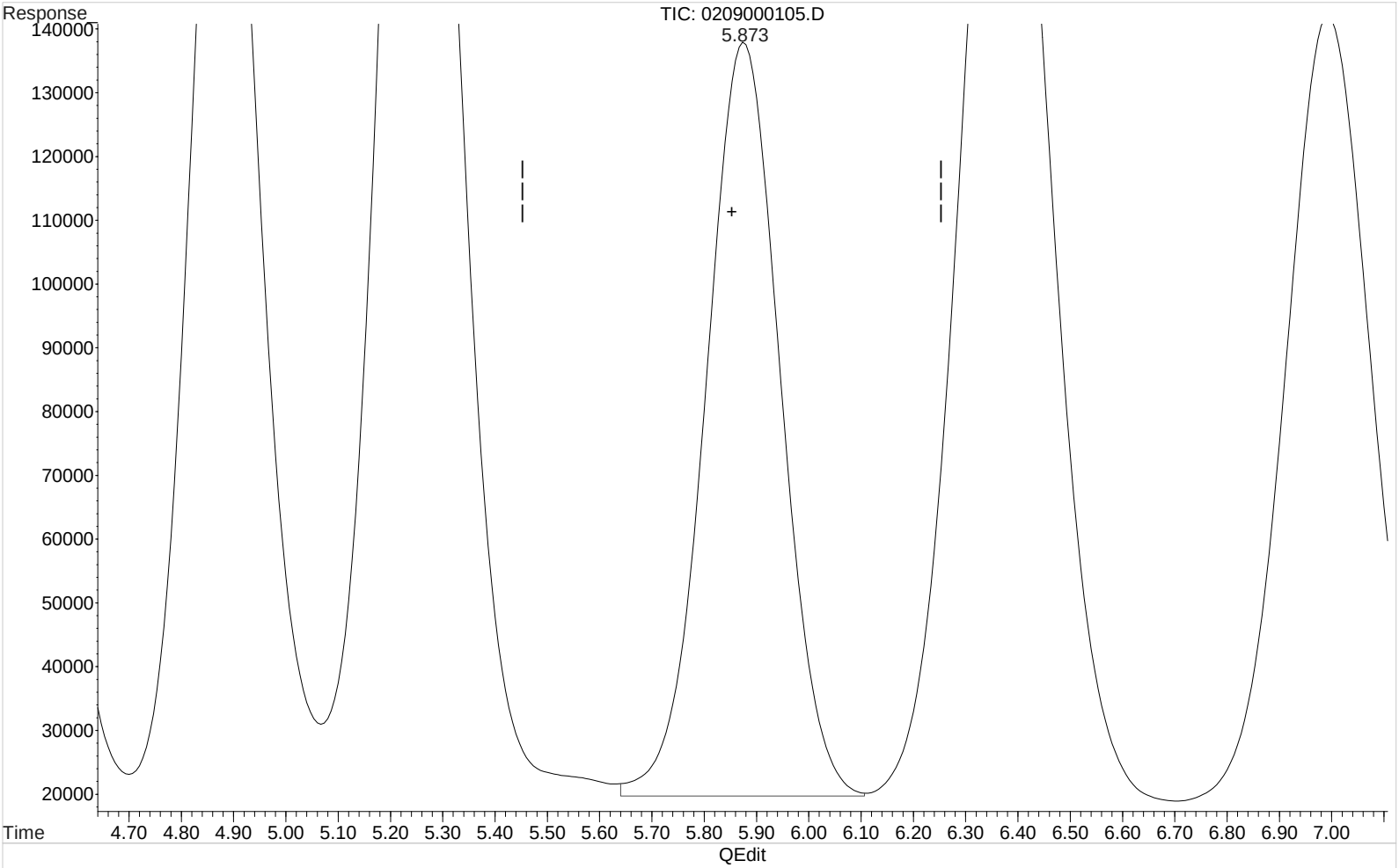
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.873min 49.902 ug/L m

response 1175129

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:21 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
11) S	1-Chloro-3-Nitrobenzene	8.140	2657922	101.044	ug/L	
	Target Compounds					
1) T	HMX	2.553	1564147	99.582	ug/L	m
2) T	RDX	2.800	1816656	101.172	ug/L	m
3) T	Nitrobenzene	4.487	3709544	100.200	ug/L	m
4) T	3,5-Dinitroaniline	5.247	4640472	100.360	ug/L	m
5) T	4-Amino-2,6-DNT	4.867	3162039	99.946	ug/L	
6) T	2-NT	5.867	2360051	100.252	ug/L	m
7) T	2-Amino-4,6-DNT	6.367	4206003	100.723	ug/L	m
8) T	3-NT	6.987	2804284	100.814	ug/L	
9) T	1,3-DNB	9.140	5626152	101.488	ug/L	
10) T	4-NT	7.853	2280814	100.351	ug/L	
12) T	2,6-DNT	8.827	2426327	99.008	ug/L	
13) T	2,4-DNT	14.820	5175598	101.753	ug/L	
14) T	Tetryl	13.000	3027728	104.293	ug/L	
15) T	1,3,5-TNB	19.807	4146878	101.012	ug/L	
16) T	2,4,6-TNT	20.793	3878263	100.435	ug/L	

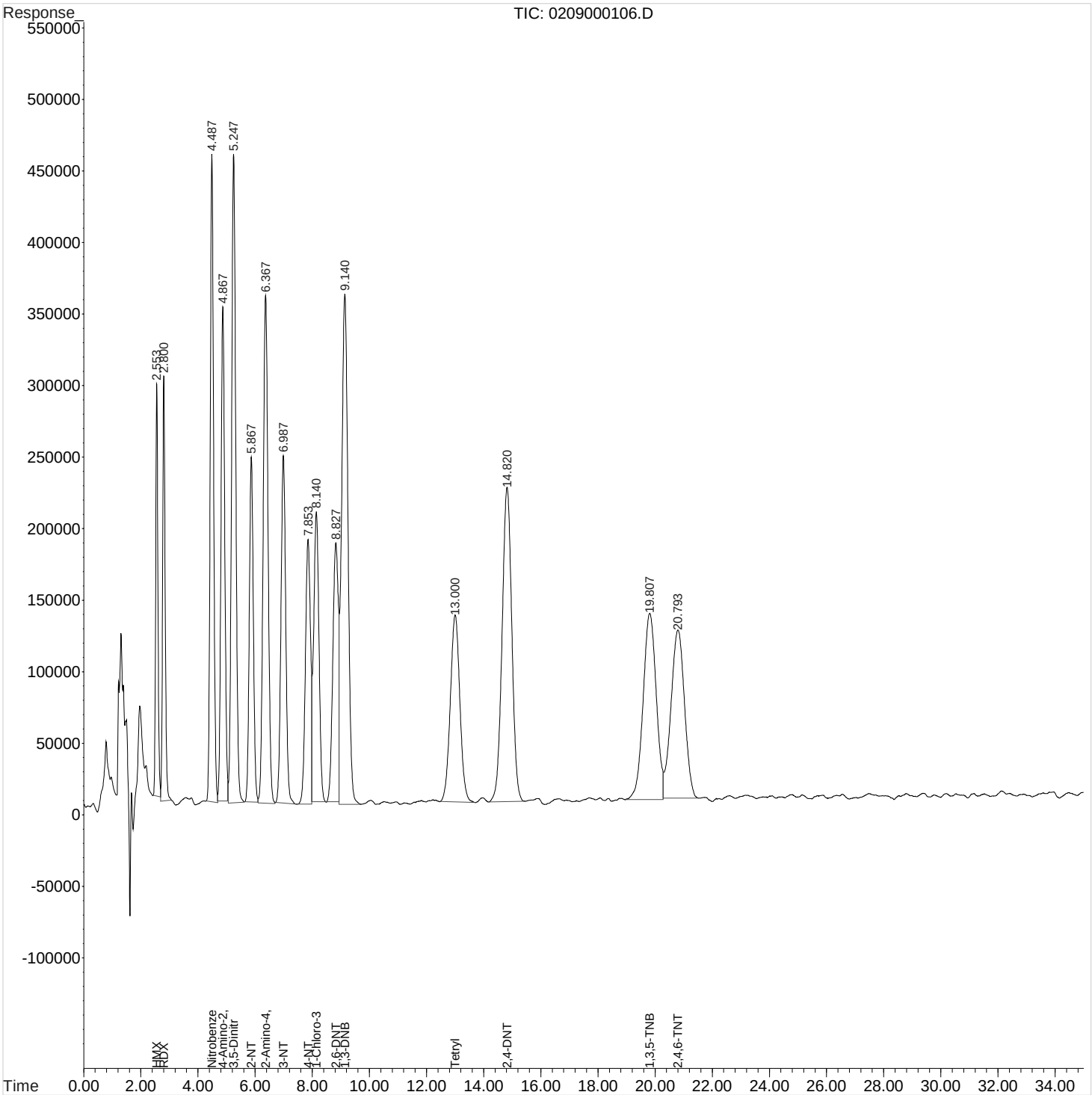
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:21 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

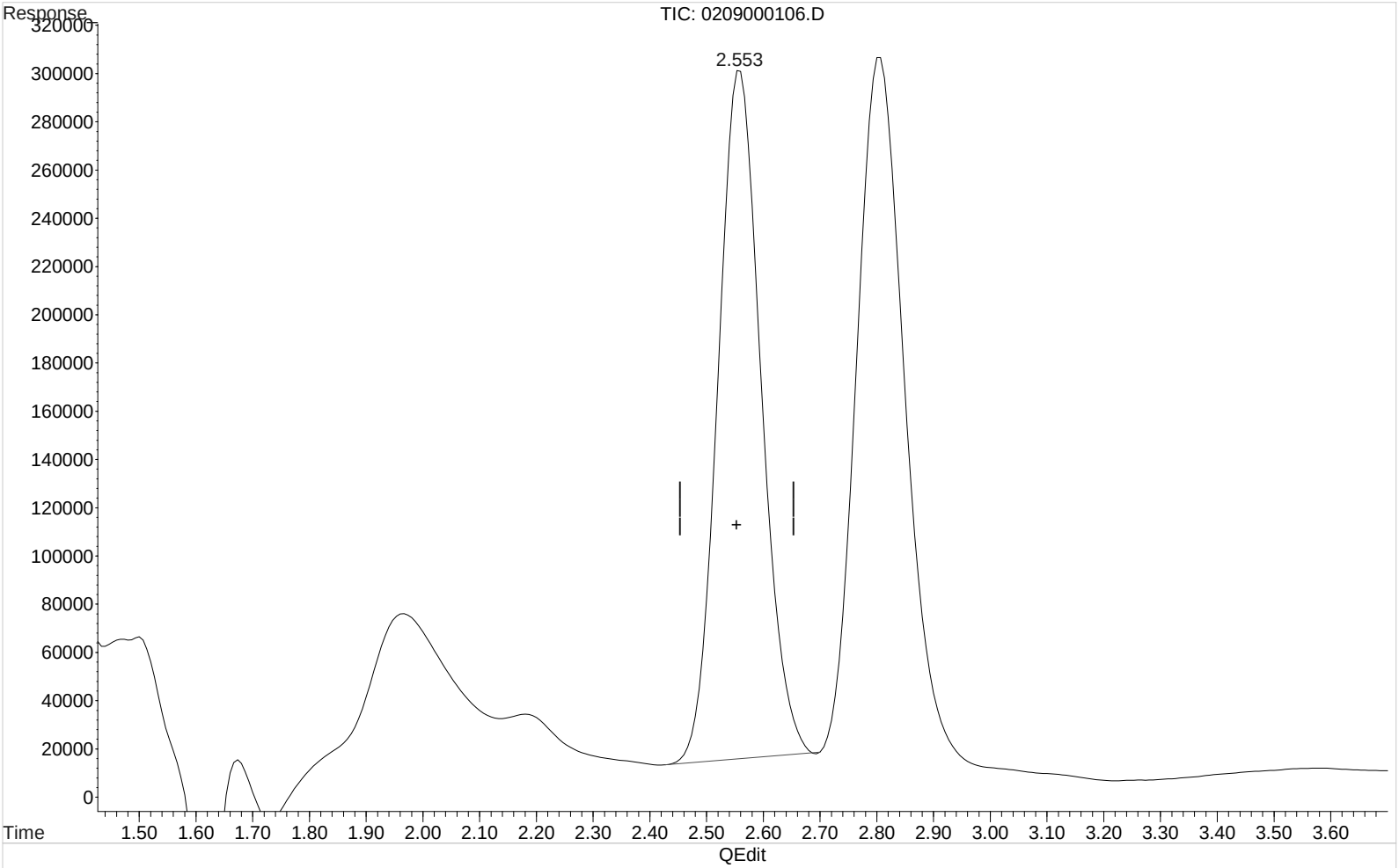


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.553min 96.655 ug/L

response 1518161

Manual Integration:

Before

02/13/17

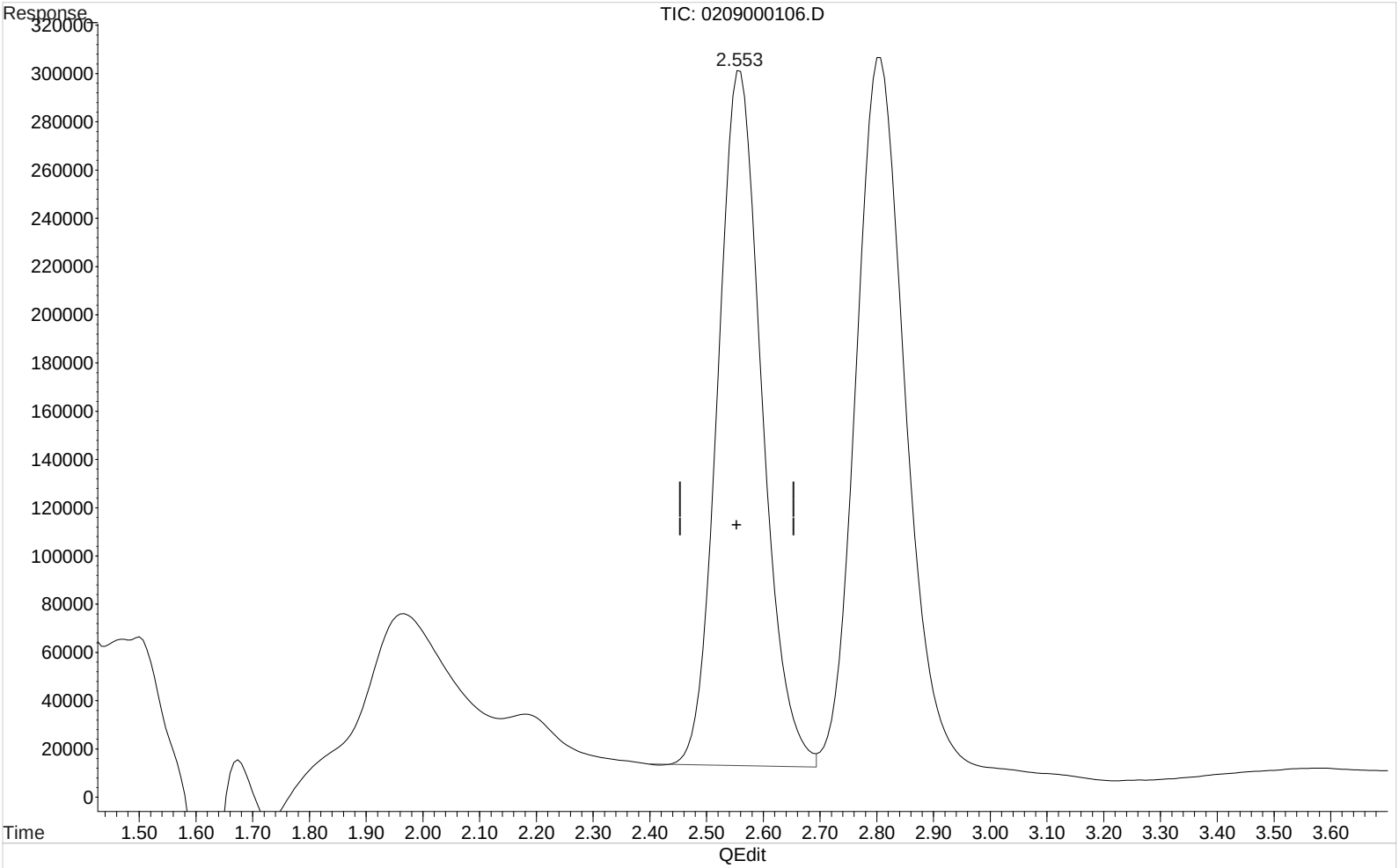
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.553min 99.582 ug/L m

response 1564147

Manual Integration:

After

BLC

02/13/17

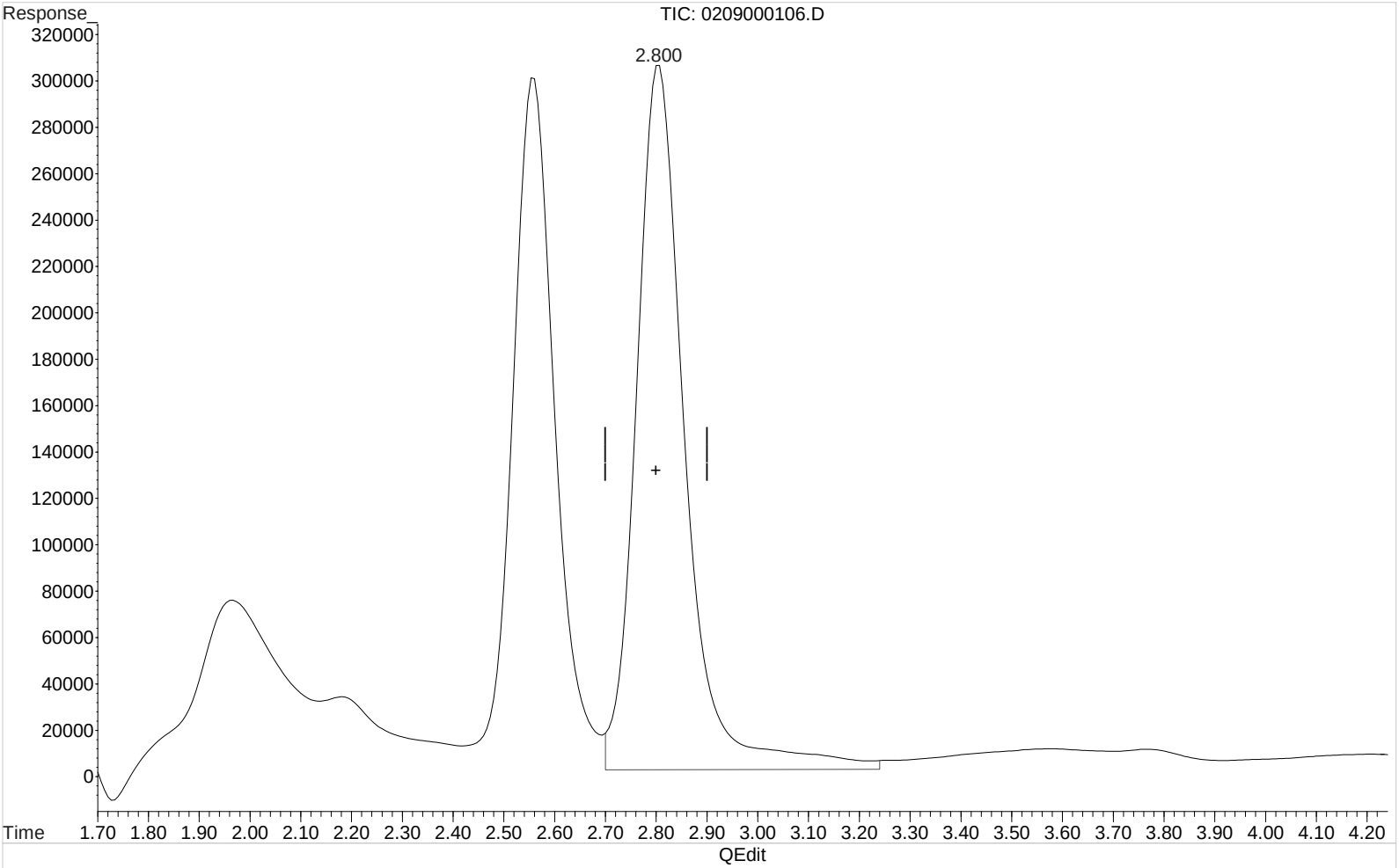
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(2) RDX (T)

2.800min 112.506 ug/L

response 2020163

Manual Integration:

Before

02/13/17

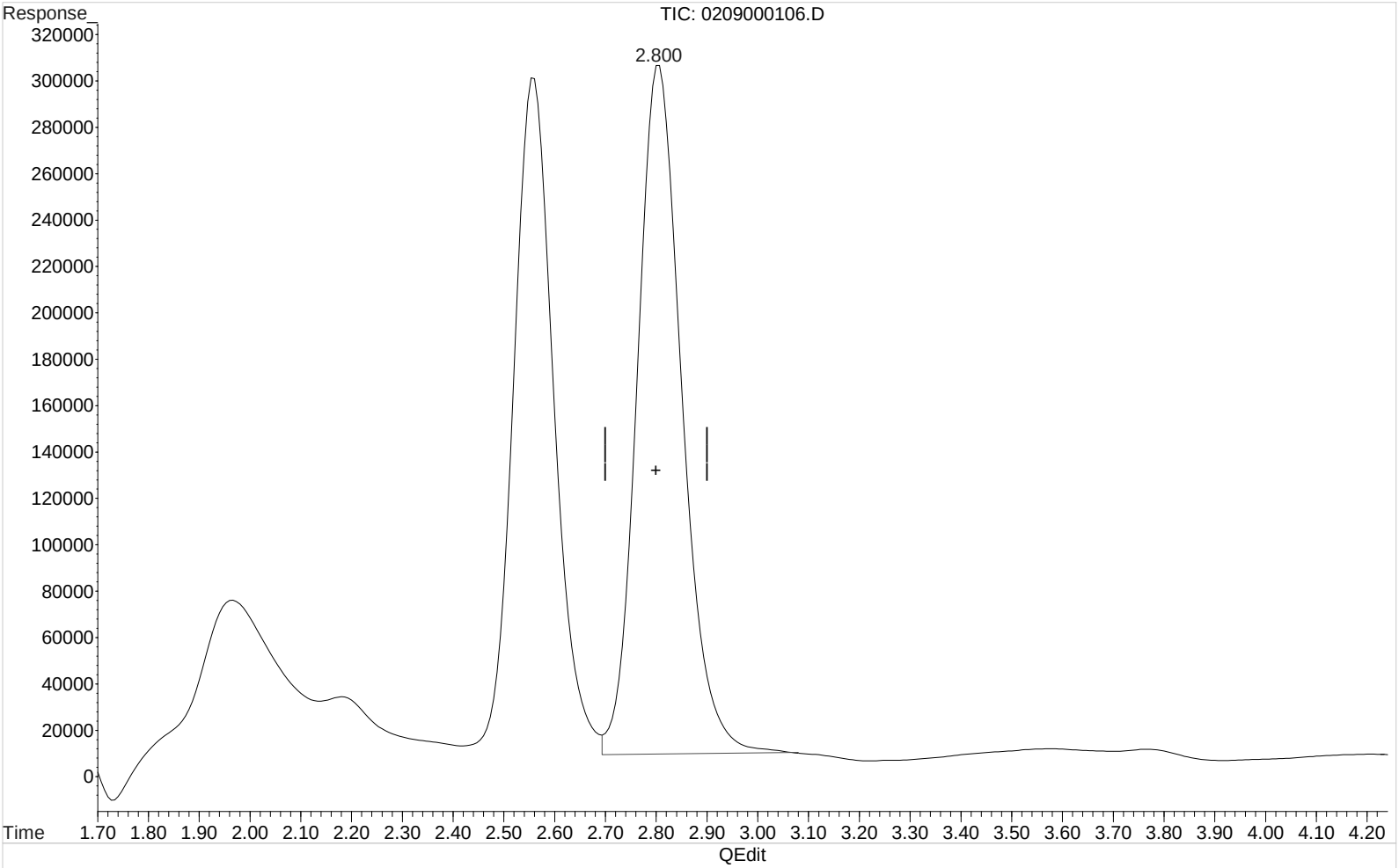
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.800min 101.172 ug/L m

response 1816656

Manual Integration:

After

BLC

02/13/17

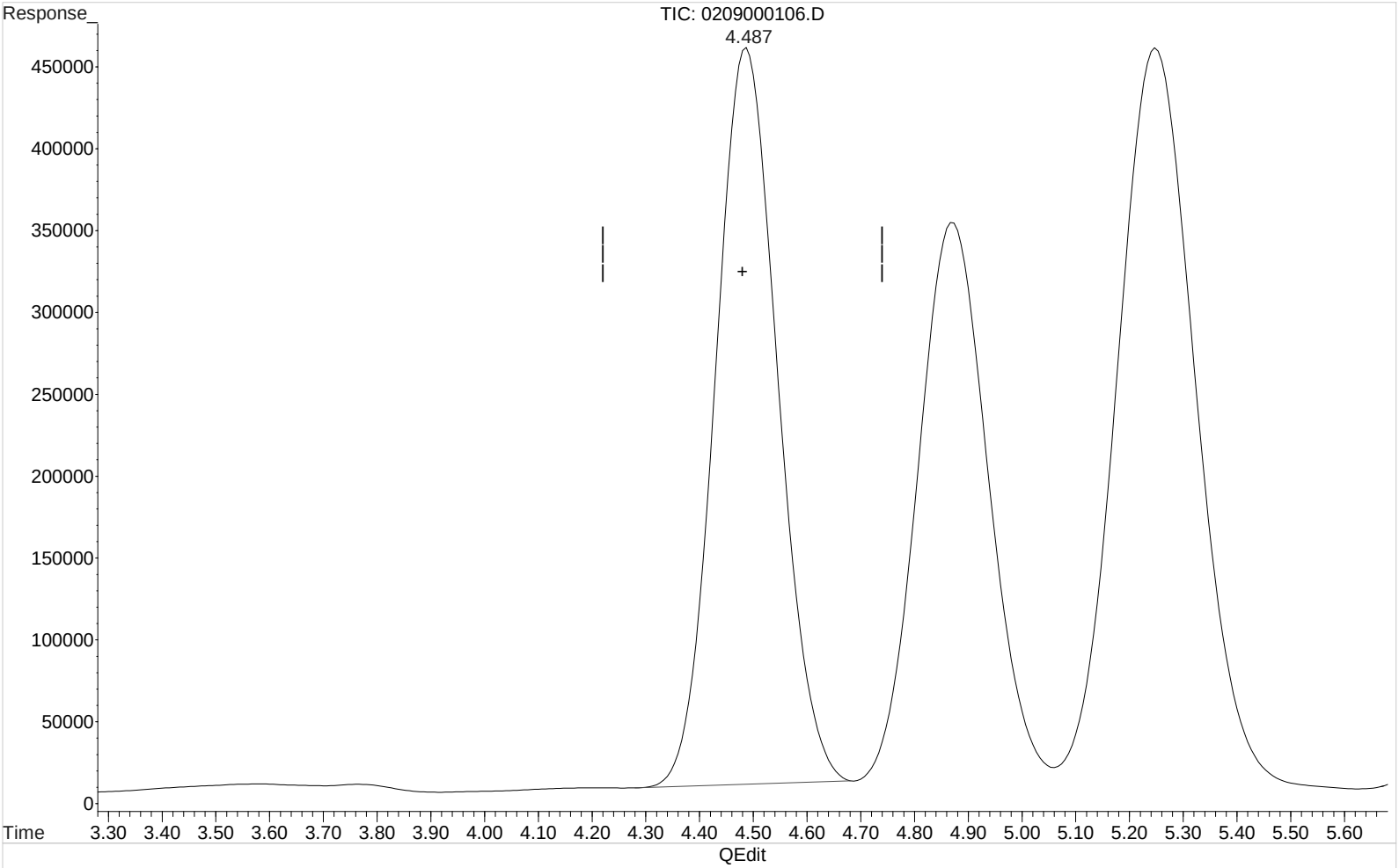
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 98.379 ug/L

response 3642131

Manual Integration:

Before

02/13/17

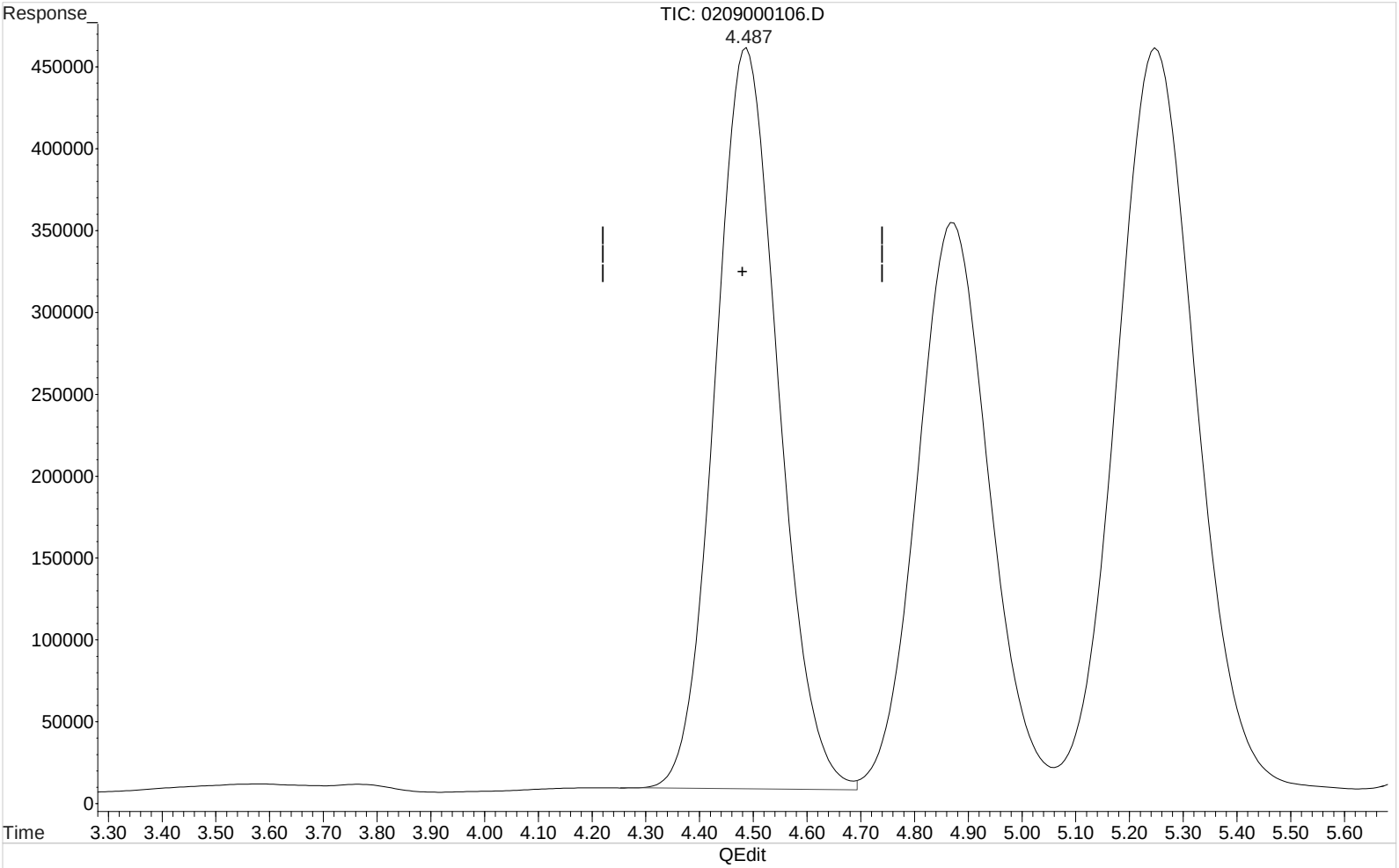
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 100.200 ug/L m

response 3709544

Manual Integration:

After

BLC

02/13/17

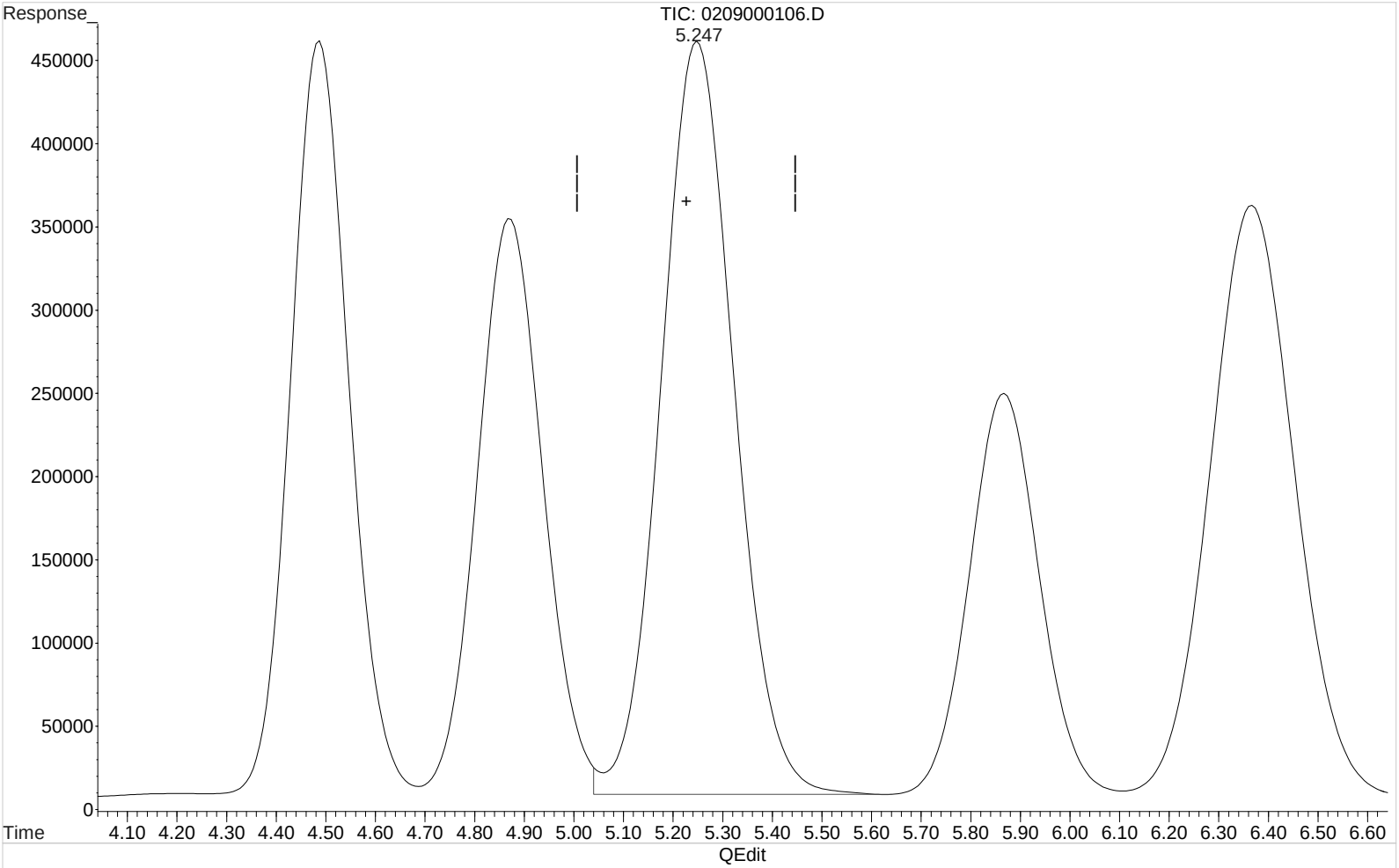
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(4) 3,5-Dinitroaniline (T)

5.247min 100.244 ug/L

response 4635102

Manual Integration:

Before

02/13/17

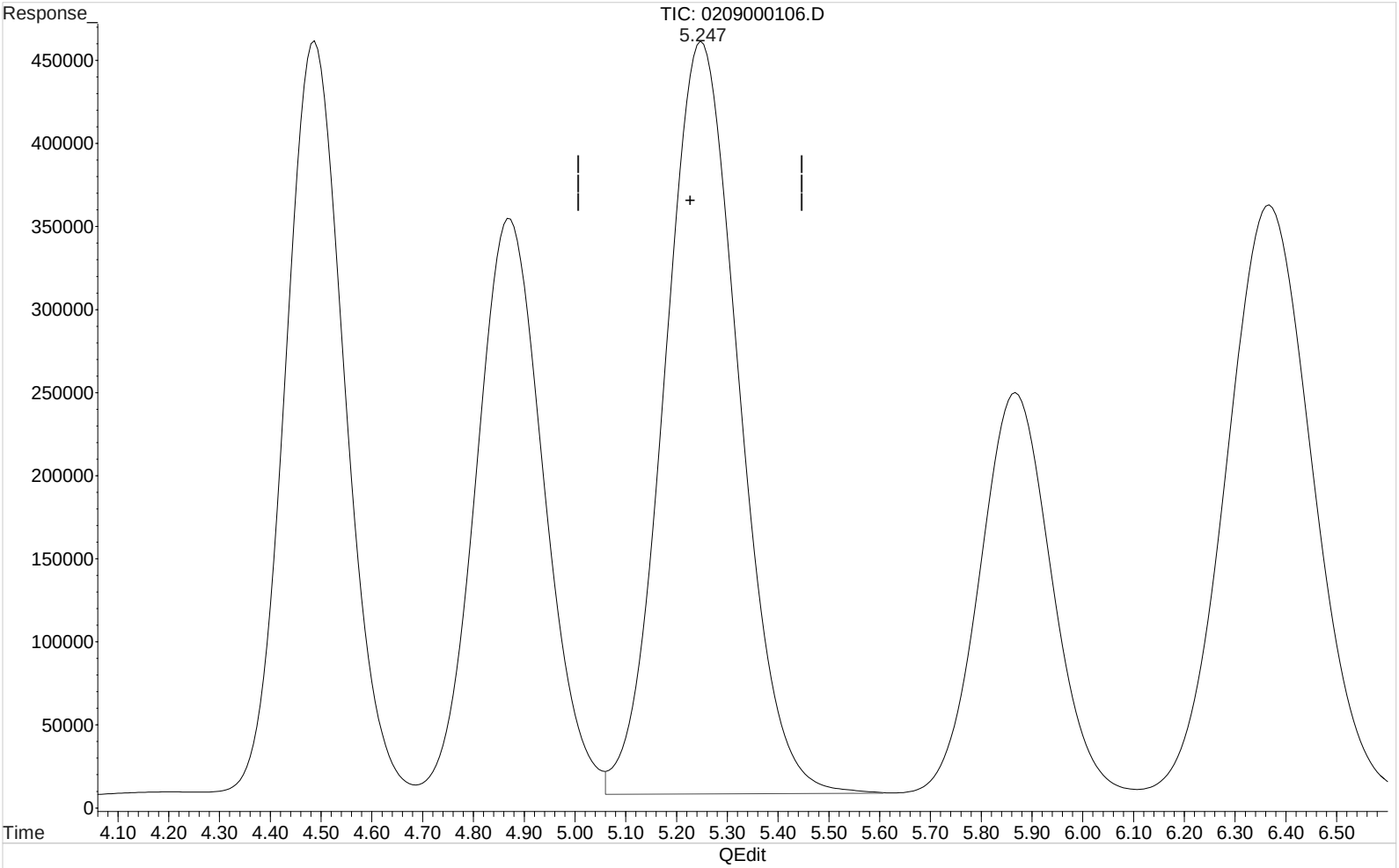
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:21 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(4) 3,5-Dinitroaniline (T)

5.247min 100.360 ug/L m

response 4640472

Manual Integration:

After

BLC

02/13/17

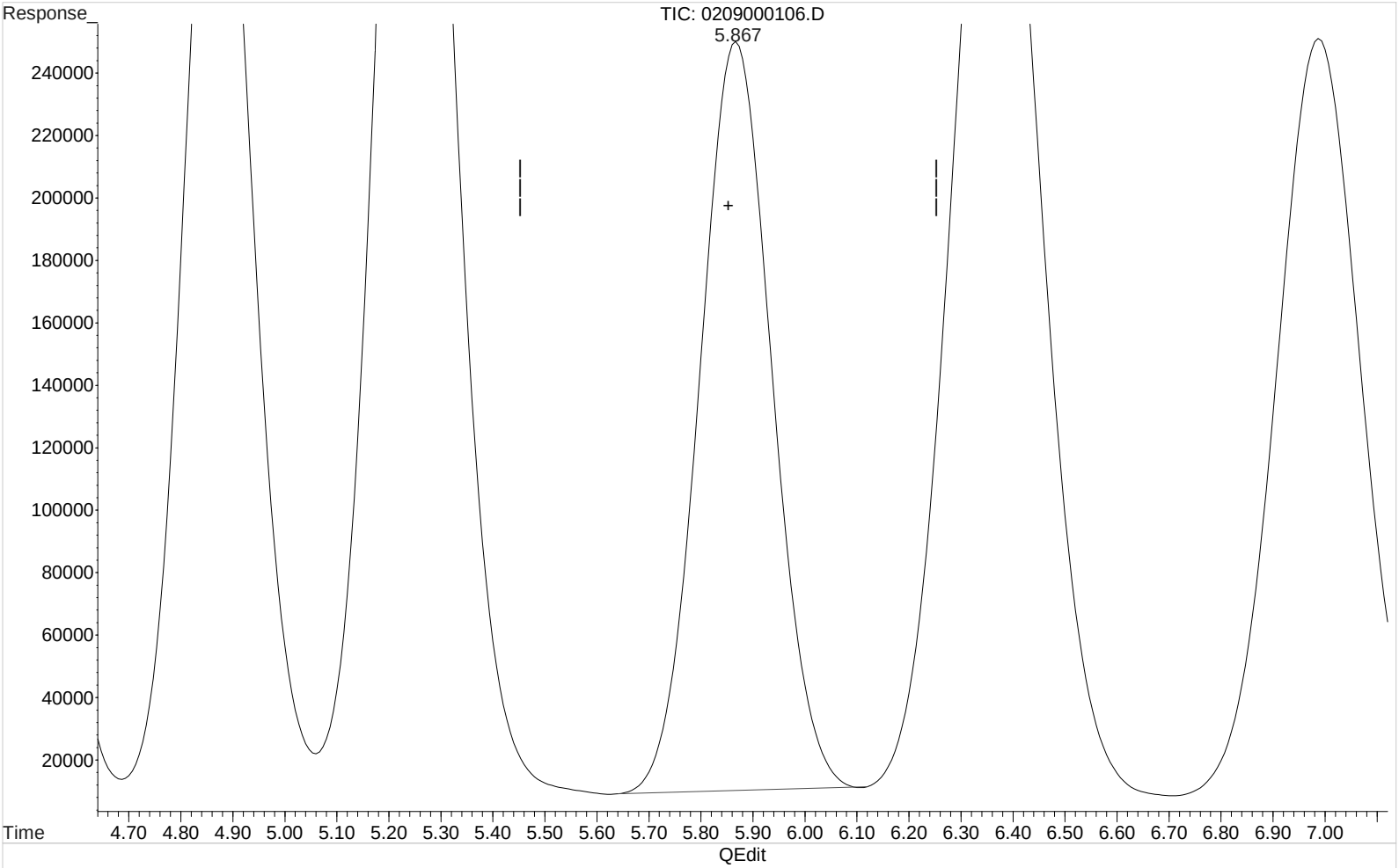
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.867min 98.817 ug/L

response 2326248

Manual Integration:

Before

02/13/17

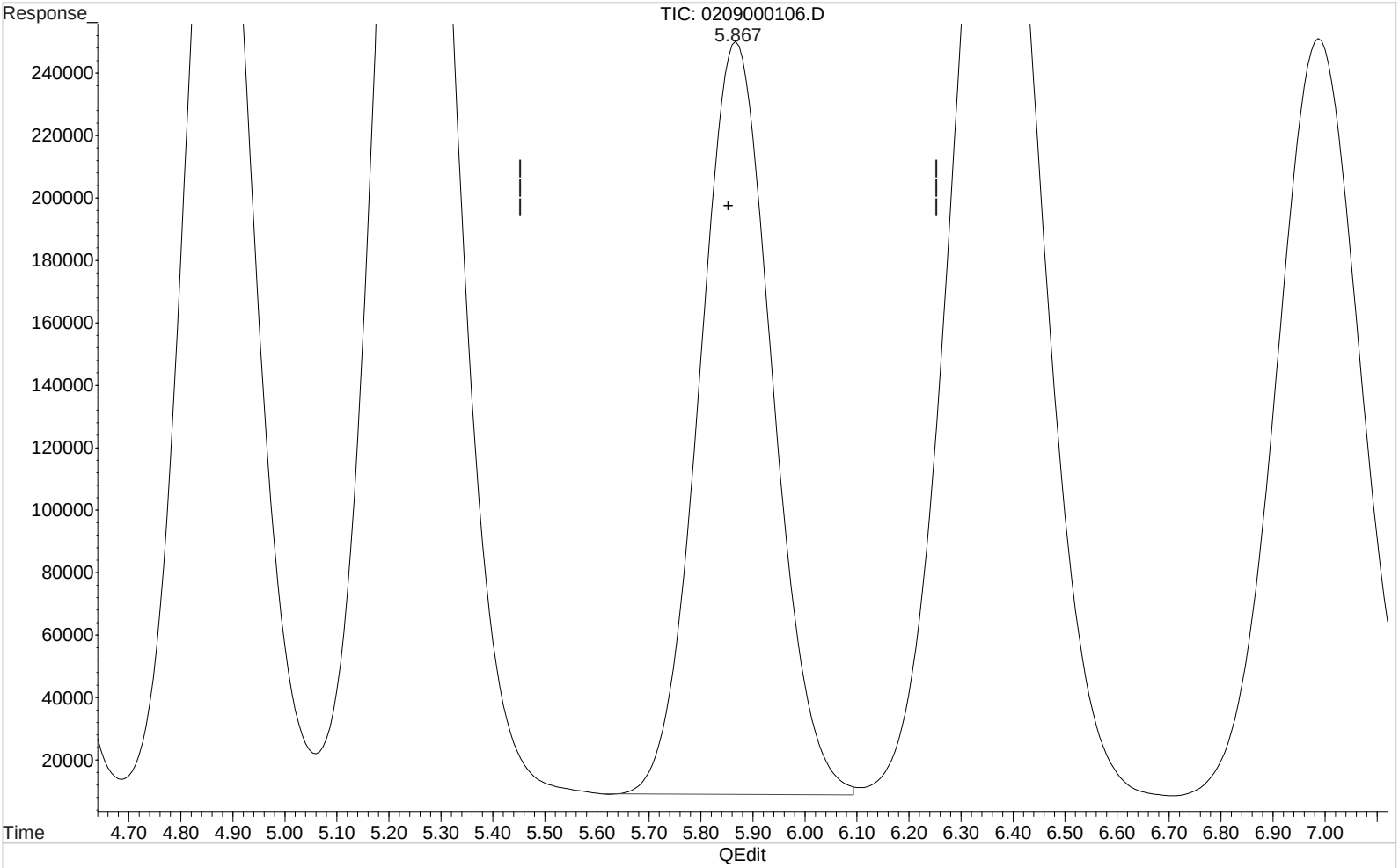
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.867min 100.252 ug/L m

response 2360051

Manual Integration:

After

BLC

02/13/17

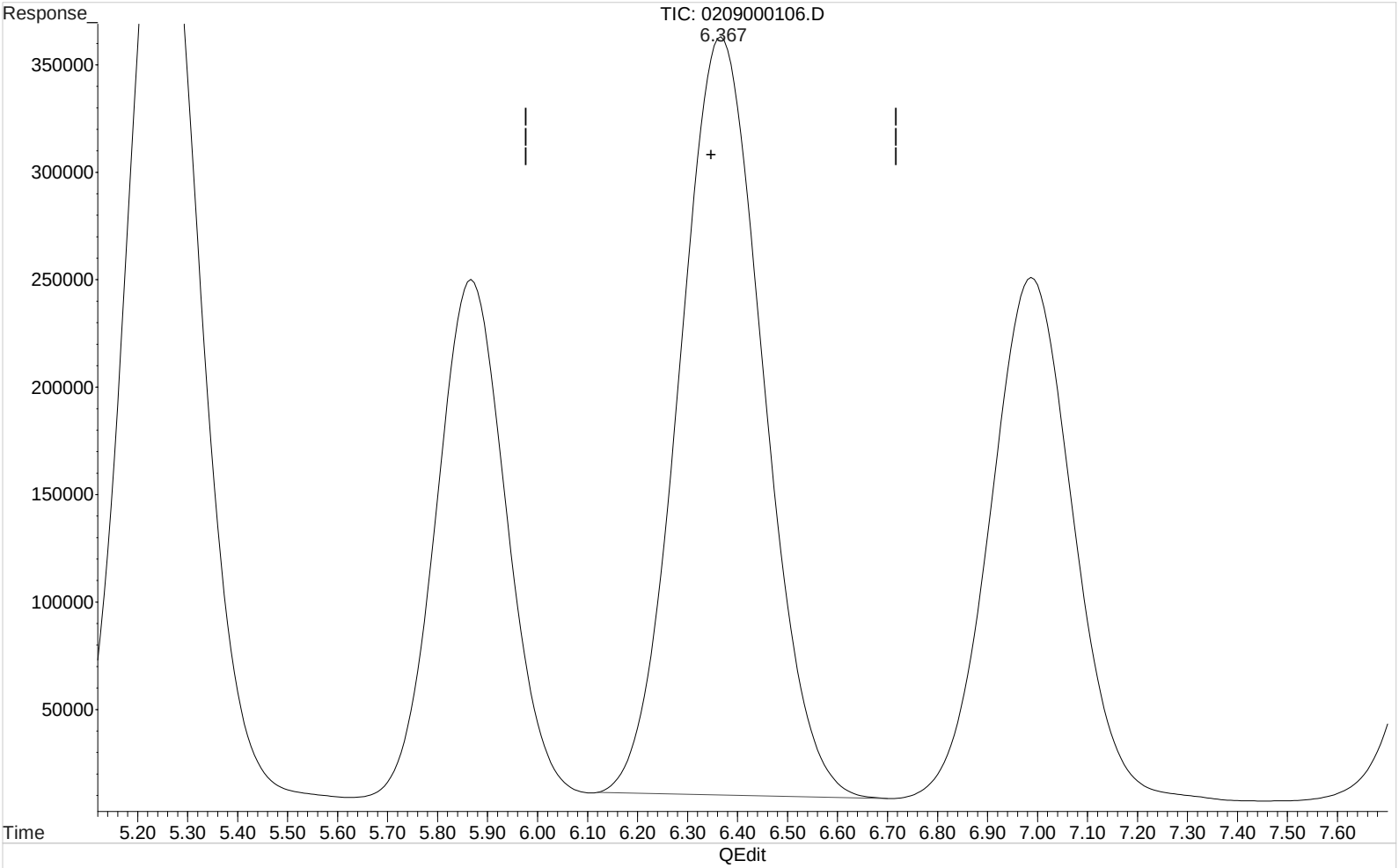
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.367min 99.082 ug/L

response 4137499

Manual Integration:

Before

02/13/17

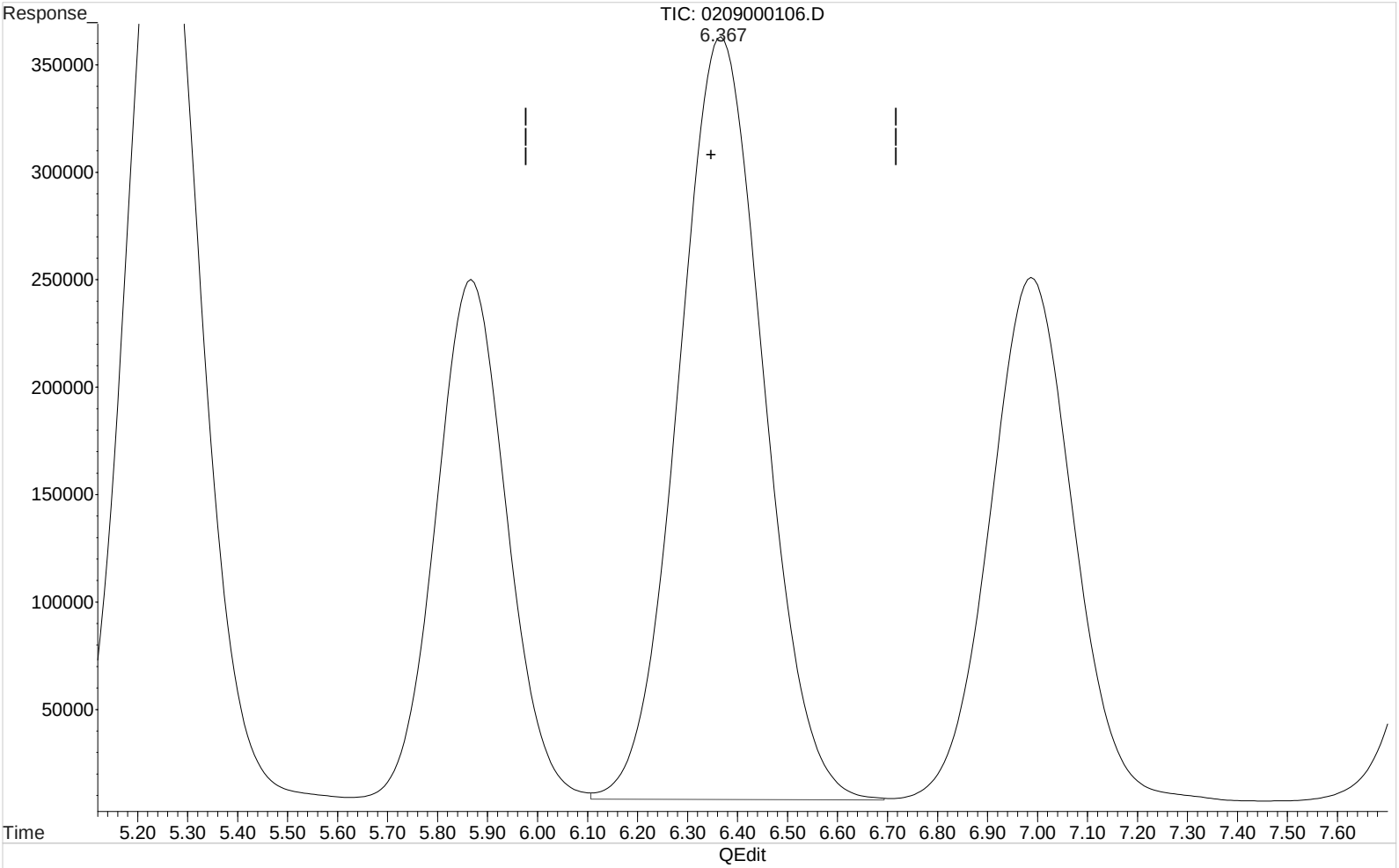
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(7) 2-Amino-4,6-DNT (T)

6.367min 100.723 ug/L m

response 4206003

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:02:59 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
11) S	1-Chloro-3-Nitrobenzene	8.133	5220675	198.216	ug/L	
	Target Compounds					
1) T	HMX	2.553	3190741	203.674	ug/L	m
2) T	RDX	2.800	3669487	205.104	ug/L	m
3) T	Nitrobenzene	4.487	7378721	199.195	ug/L	m
4) T	3,5-Dinitroaniline	5.240	9267786	200.507	ug/L	
5) T	4-Amino-2,6-DNT	4.867	6395822	202.523	ug/L	
6) T	2-NT	5.860	4647246	196.985	ug/L	m
7) T	2-Amino-4,6-DNT	6.360	8414458	201.757	ug/L	m
8) T	3-NT	6.980	5578596	200.643	ug/L	m
9) T	1,3-DNB	9.133	11230158	203.013	ug/L	
10) T	4-NT	7.847	4460100	195.620	ug/L	
12) T	2,6-DNT	8.820	4883983	199.176	ug/L	
13) T	2,4-DNT	14.813	10333460	203.692	ug/L	
14) T	Tetryl	13.000	5723089	196.668	ug/L	
15) T	1,3,5-TNB	19.820	8131157	197.745	ug/L	
16) T	2,4,6-TNT	20.800	7763771	201.236	ug/L	

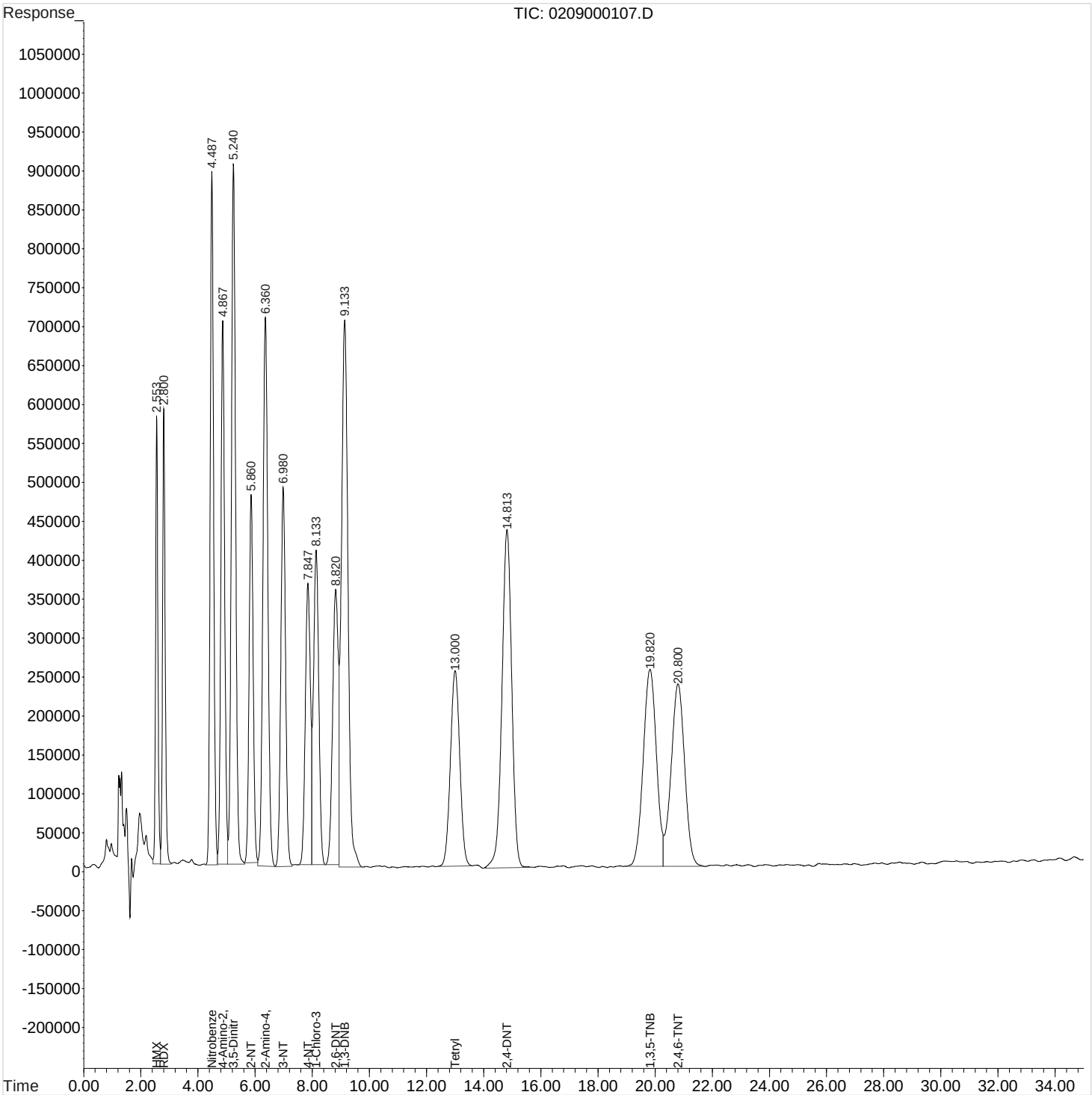
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:02:59 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(b) (6)

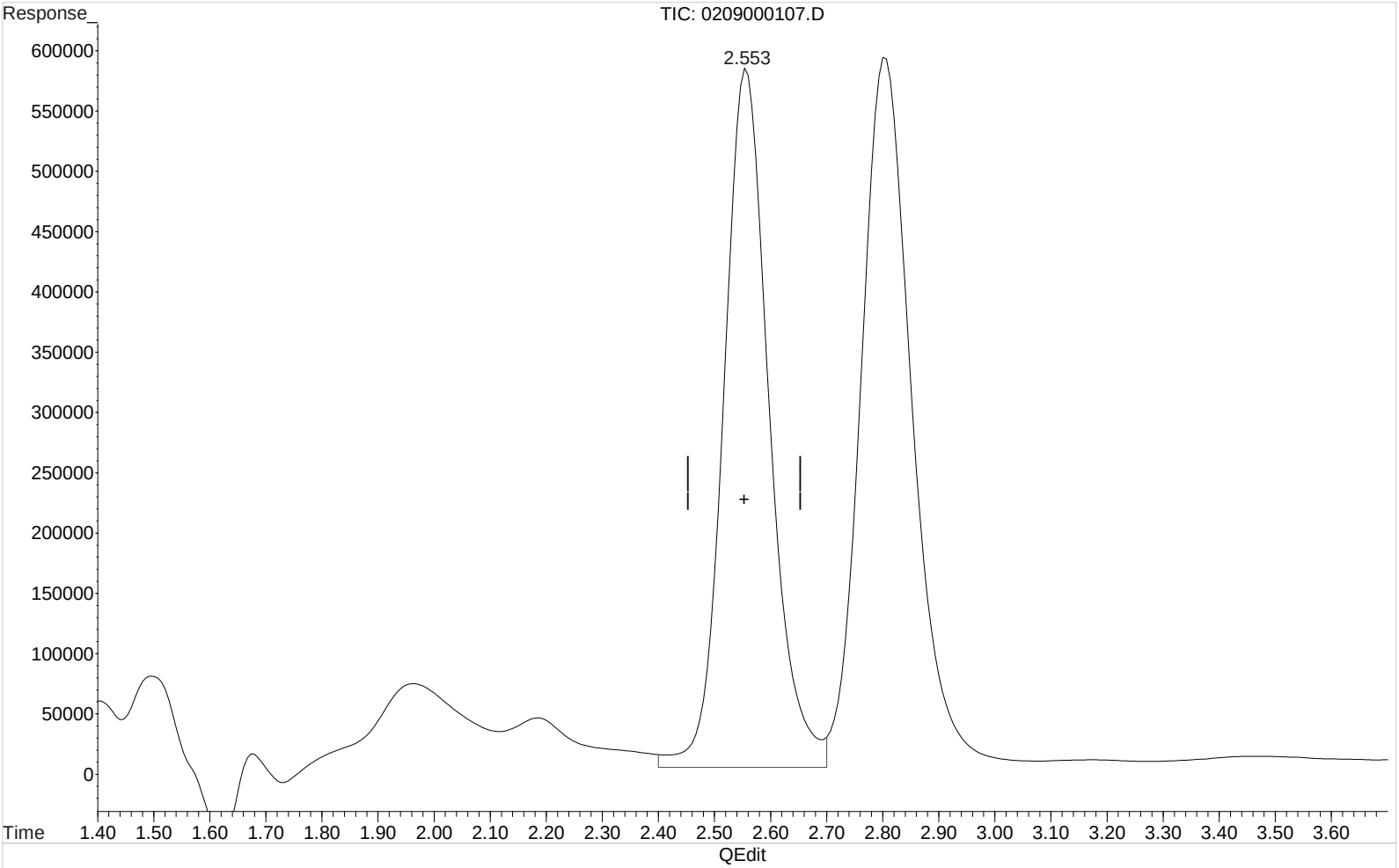
/13/17

/17/17

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.553min 209.905 ug/L

response 3288352

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

(b) (6)

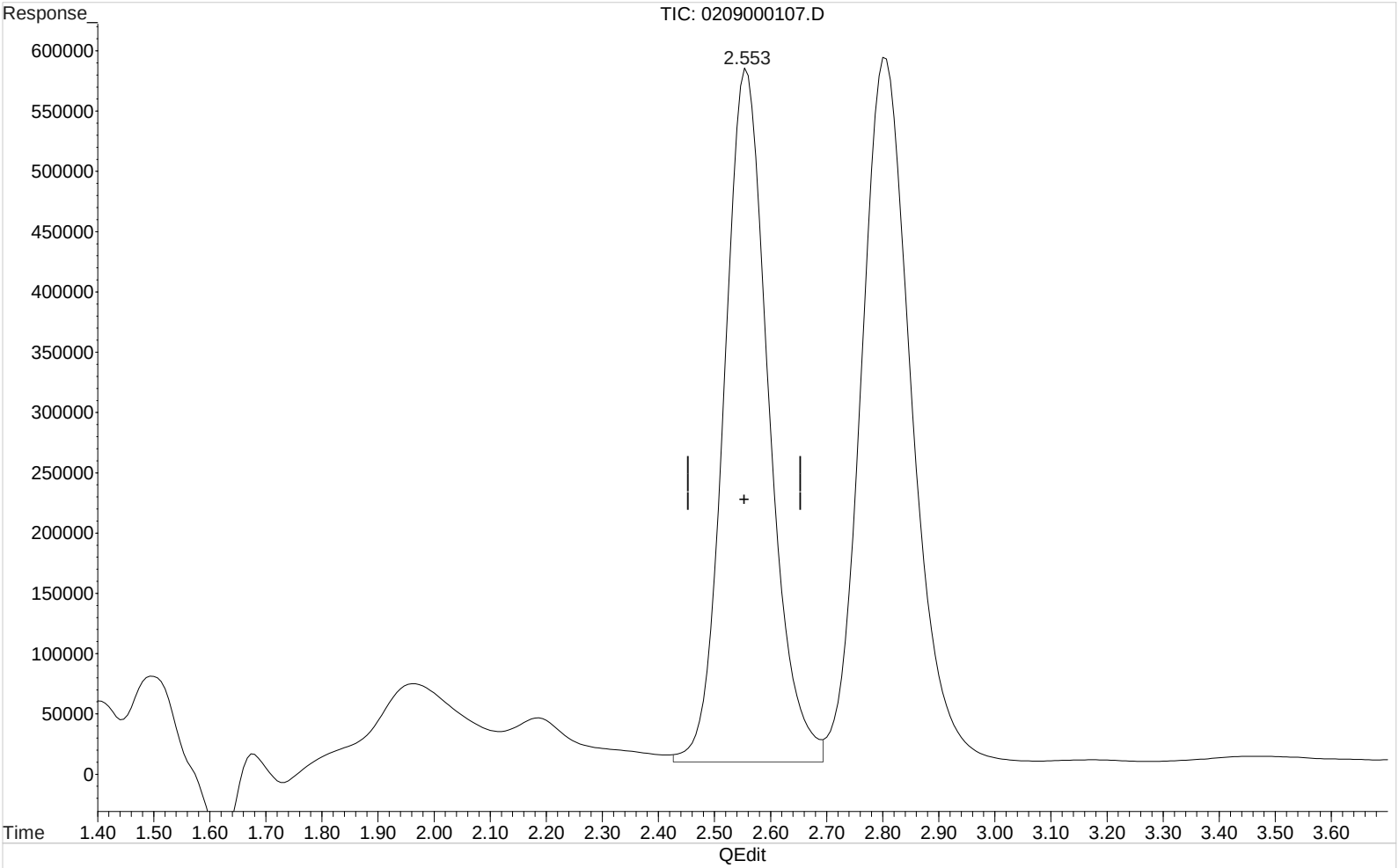
/13/17

/17/17

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(1) HMX (T)

2.553min 203.674 ug/L m

response 3190741

Manual Integration:

After

BLC

02/13/17

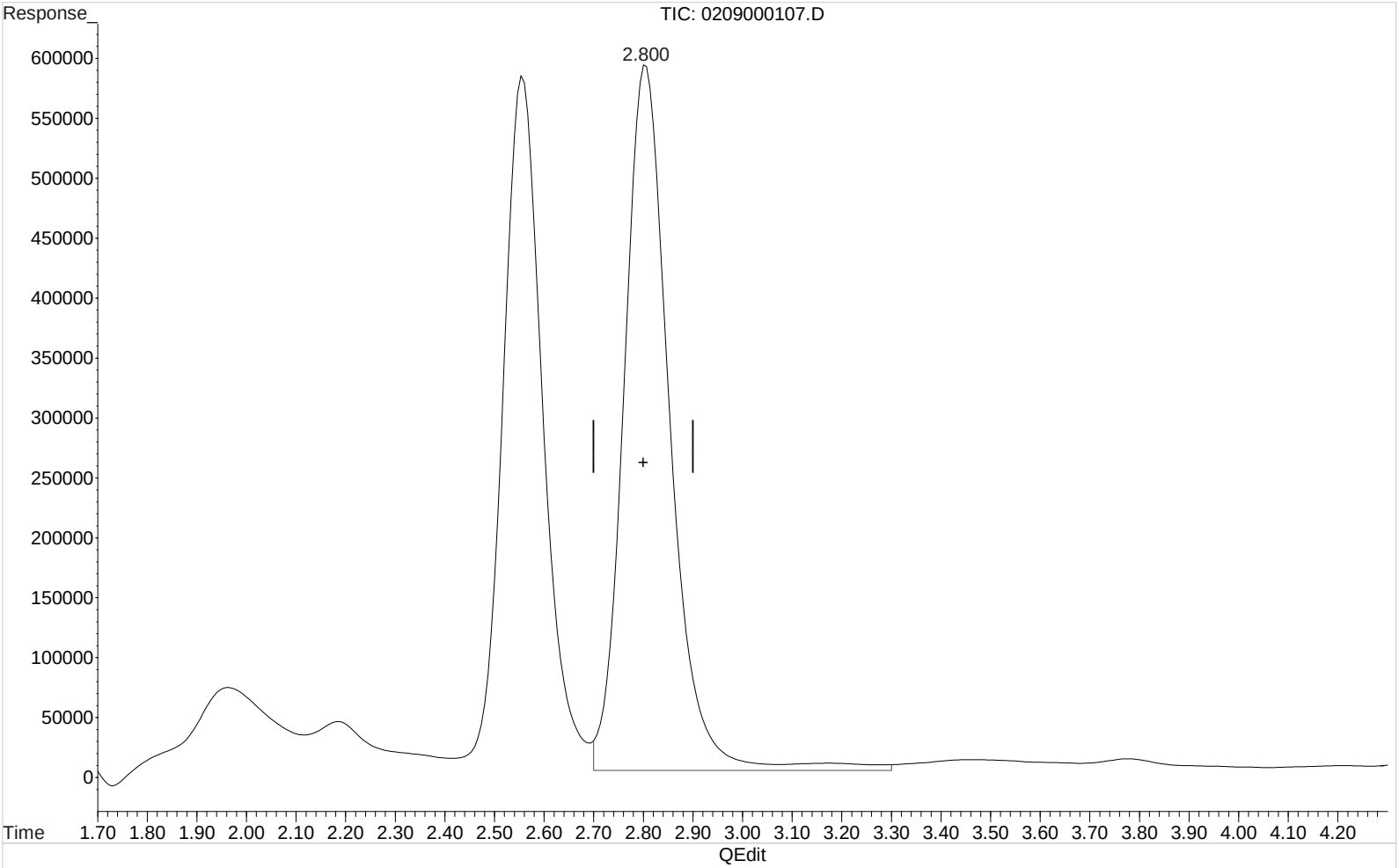
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(2) RDX (T)

2.800min 213.070 ug/L

response 3812015

Manual Integration:

Before

02/13/17

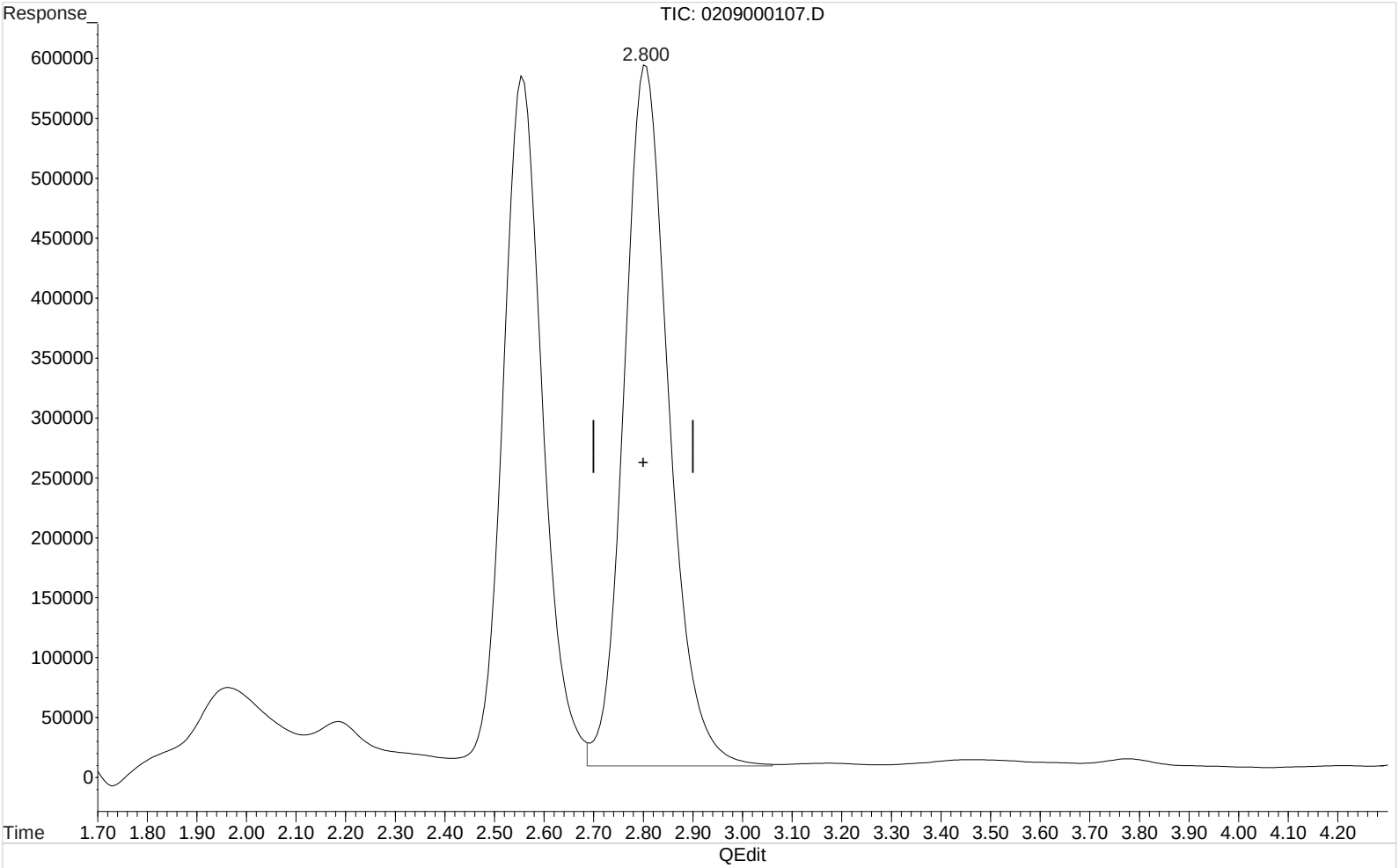
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.800min 205.104 ug/L m

response 3669487

Manual Integration:

After

BLC

02/13/17

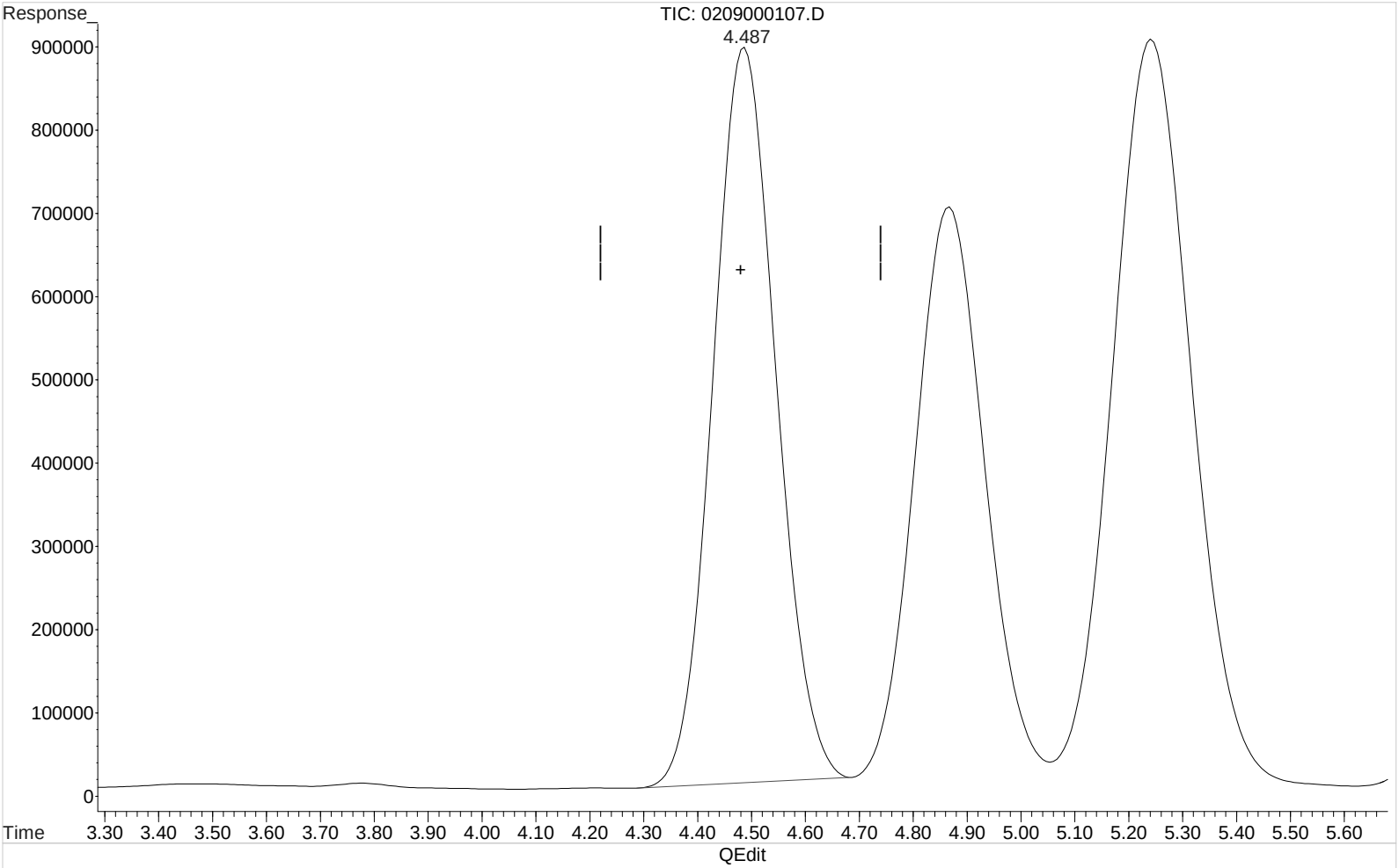
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 194.479 ug/L

response 7204041

Manual Integration:

Before

02/13/17

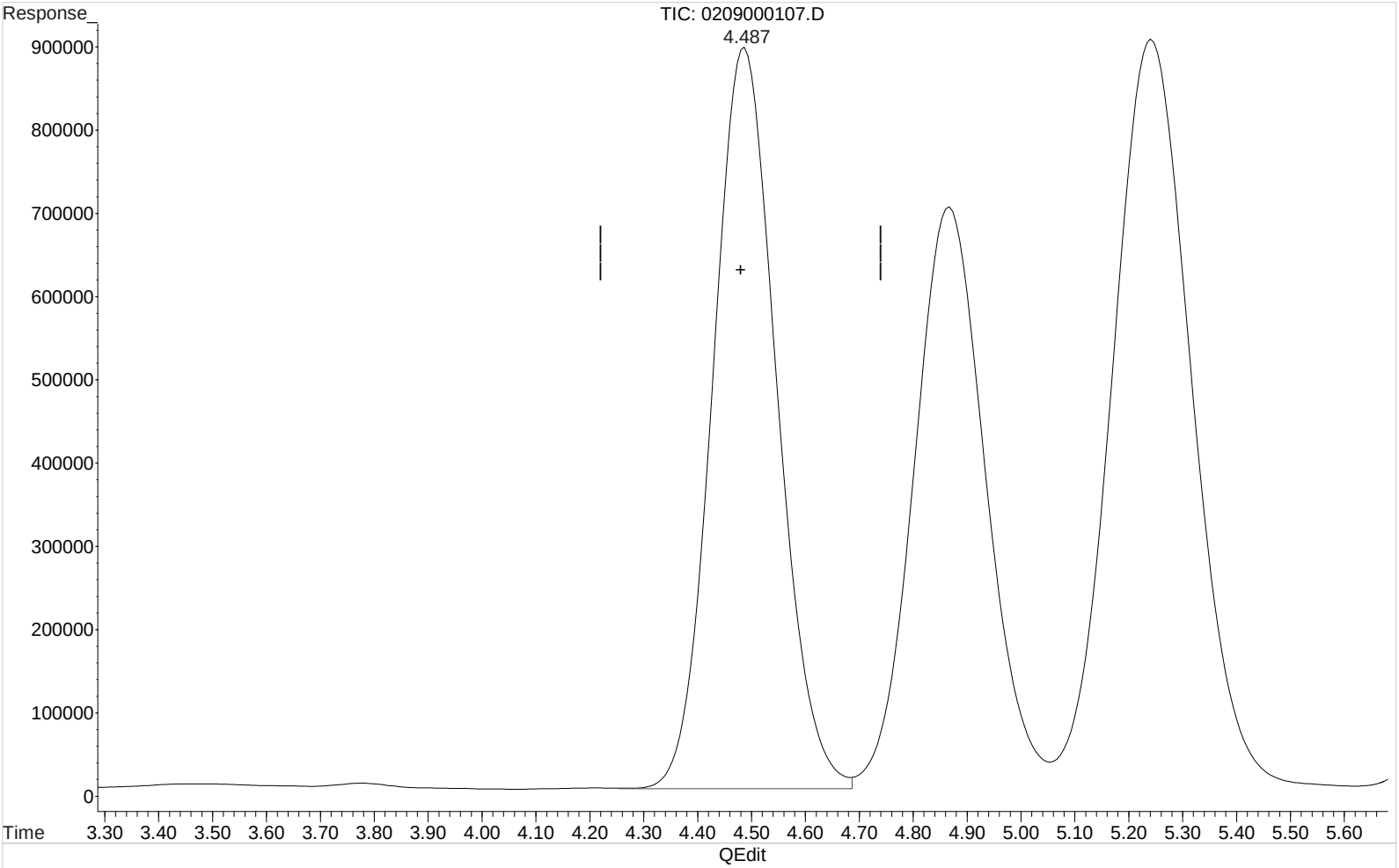
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 199.195 ug/L m

response 7378721

Manual Integration:

After

BLC

02/13/17

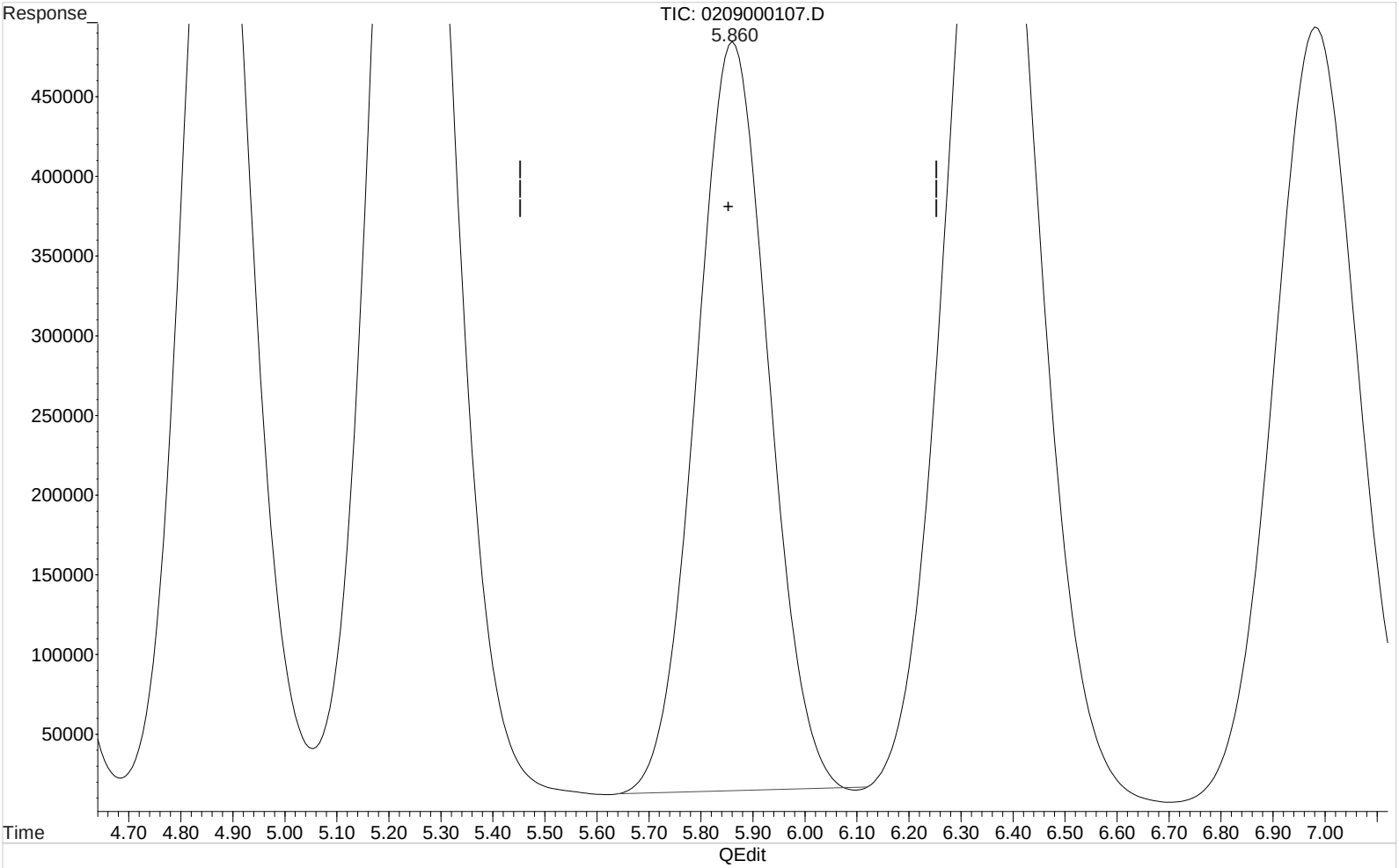
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.860min 193.337 ug/L

response 4561182

Manual Integration:

Before

02/13/17

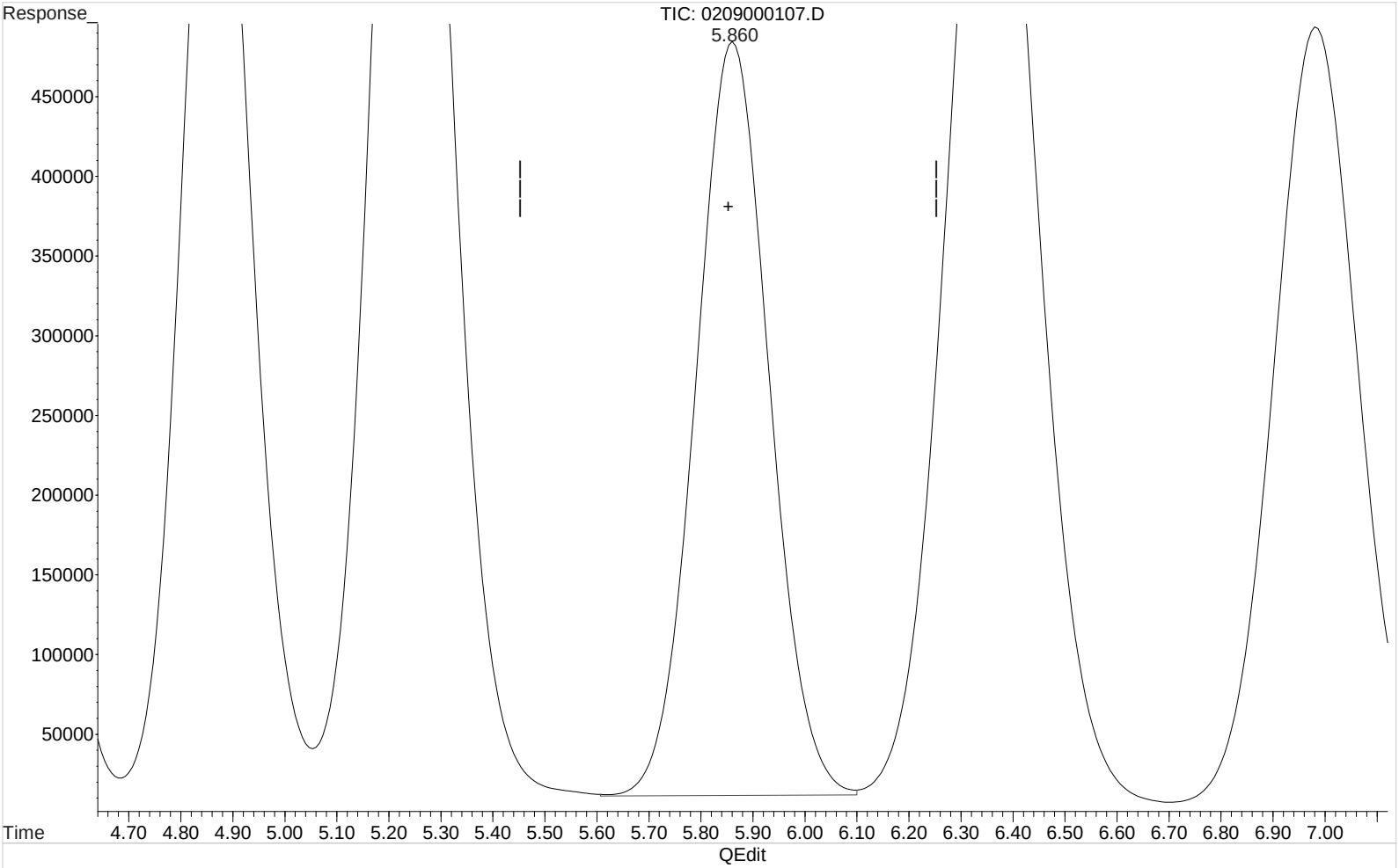
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.860min 196.985 ug/L m

response 4647246

Manual Integration:

After

BLC

02/13/17

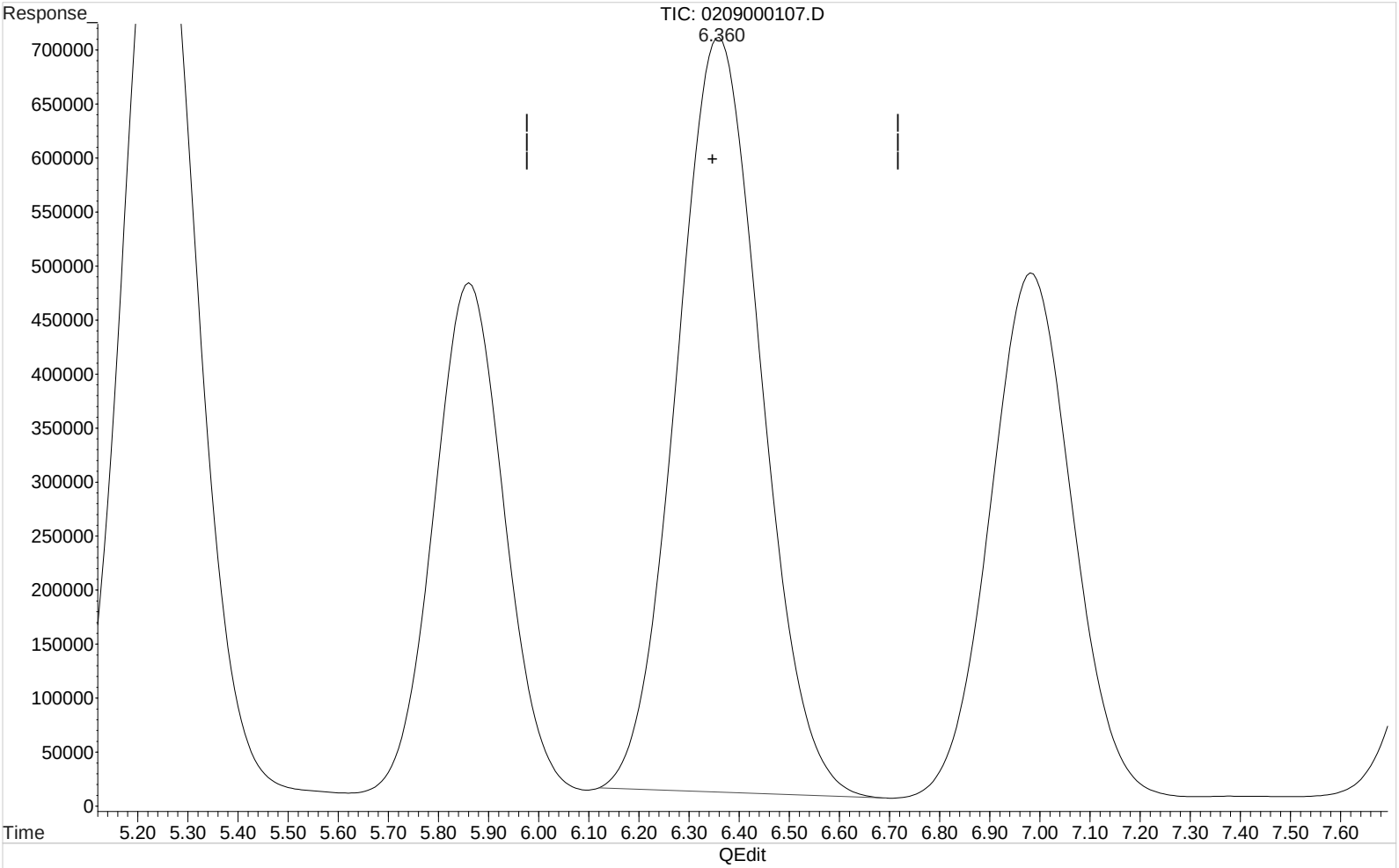
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(7) 2-Amino-4,6-DNT (T)

6.360min 197.248 ug/L

response 8226412

Manual Integration:

Before

02/13/17

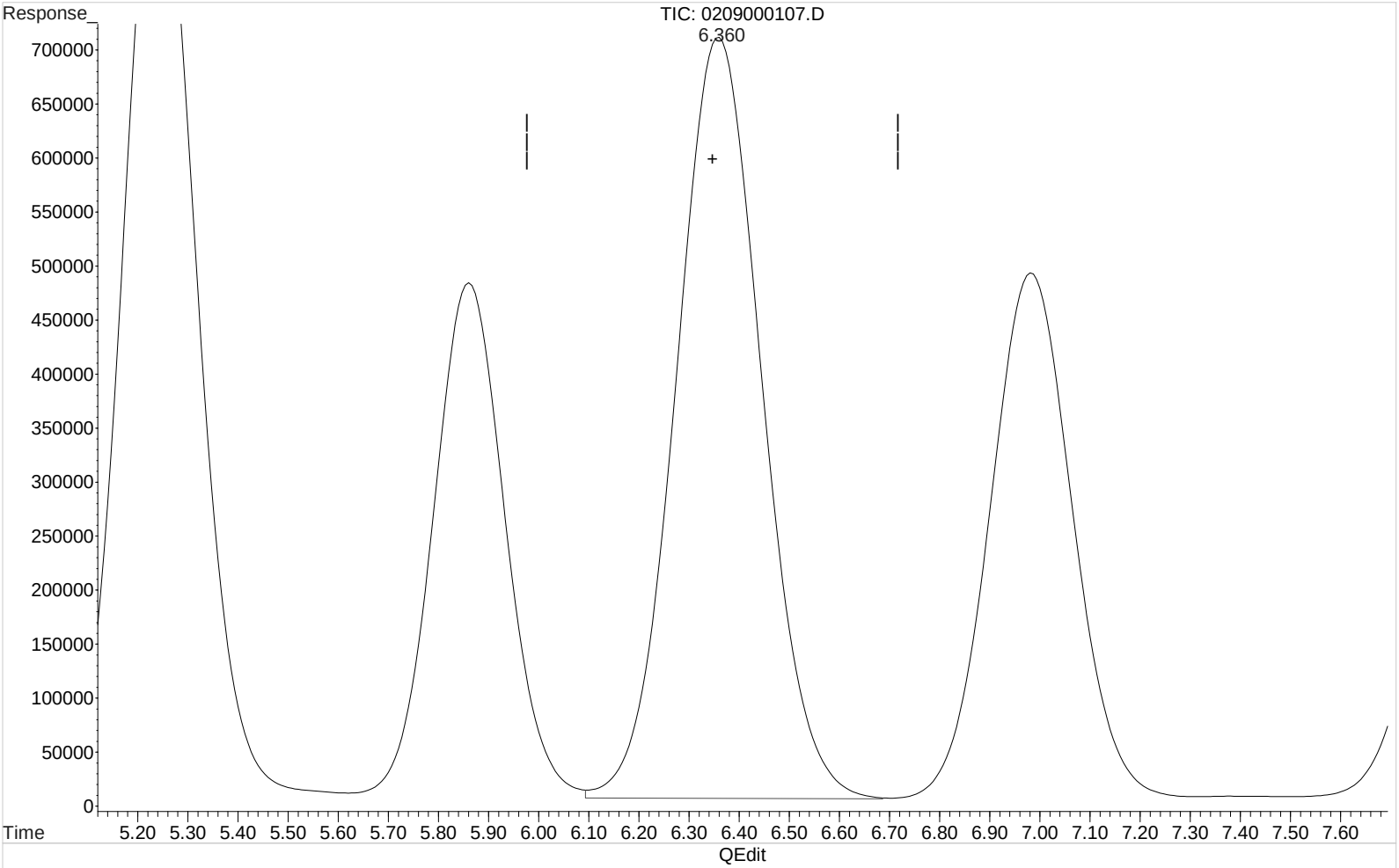
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(7) 2-Amino-4,6-DNT (T)

6.360min 201.757 ug/L m

response 8414458

Manual Integration:

After

BLC

02/13/17

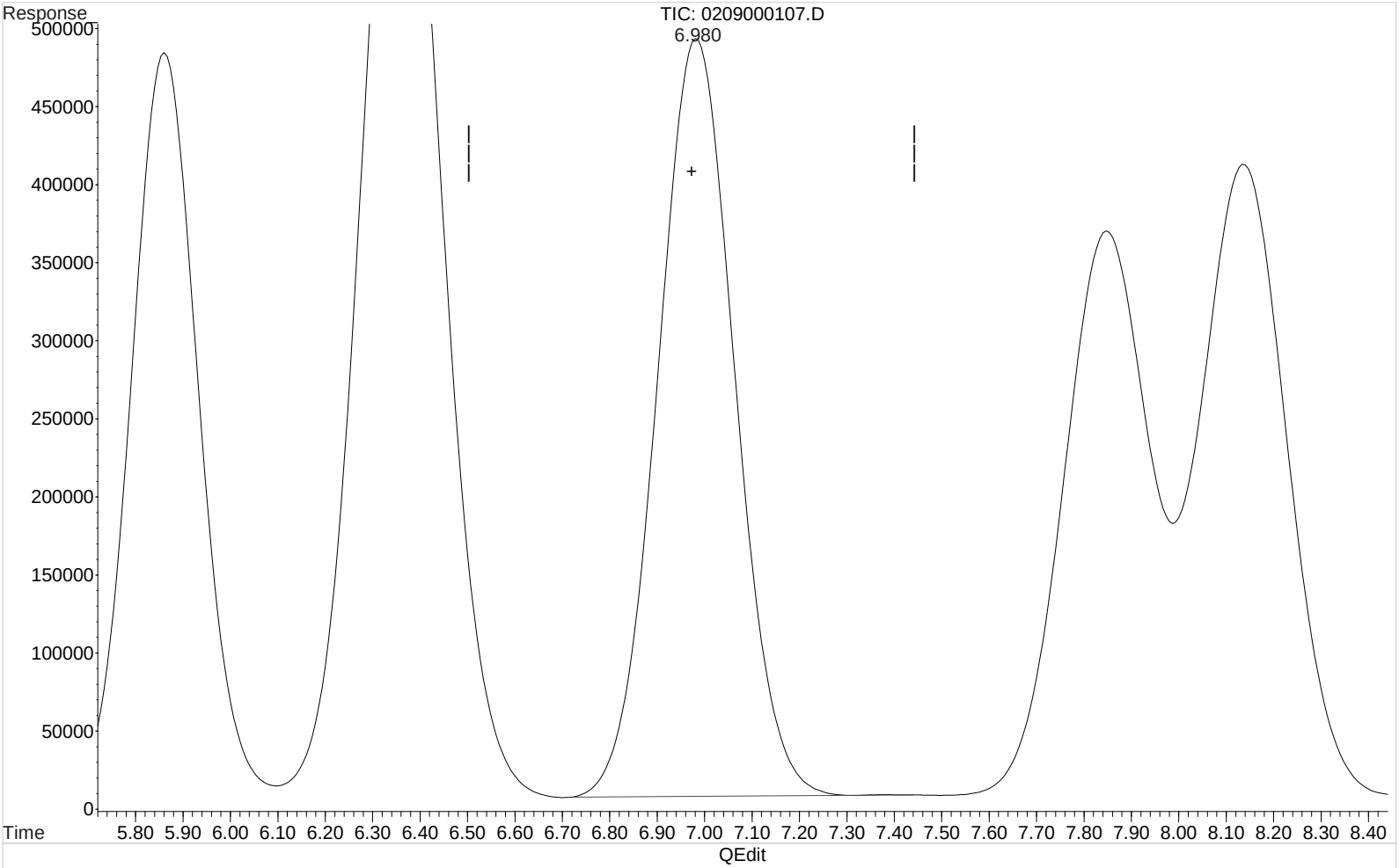
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(8) 3-NT (T)

6.980min 198.747 ug/L

response 5525861

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

(b) (6)

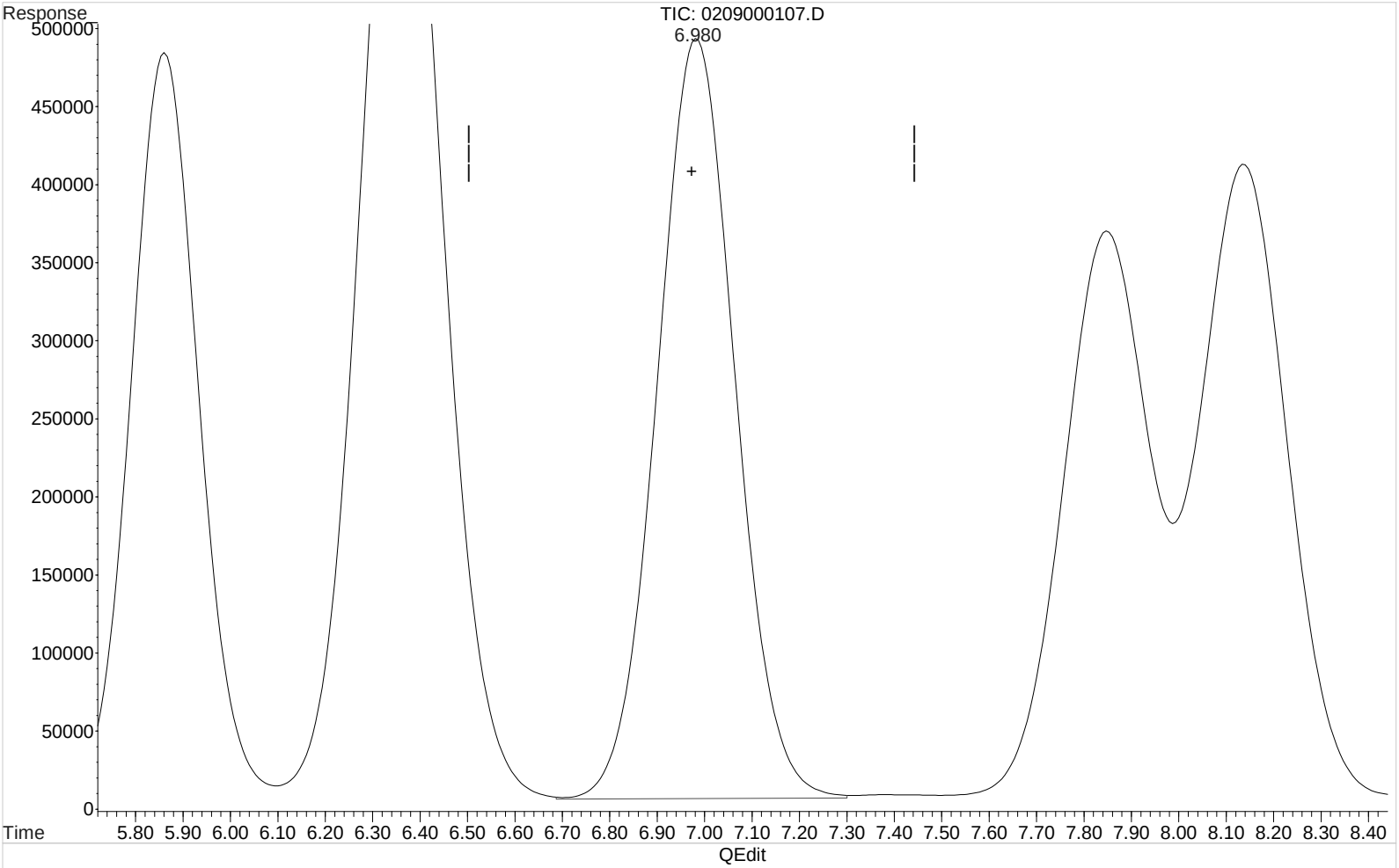
2/13/17

2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(8) 3-NT (T)

6.980min 200.643 ug/L m

response 5578596

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:00:13 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
11) S	1-Chloro-3-Nitrobenzene	8.153	13230585	502.803	ug/L	m
	Target Compounds					
1) T	HMX	2.560	7981926	511.454	ug/L	m
2) T	RDX	2.807	9178077	515.685	ug/L	m
3) T	Nitrobenzene	4.493	18916422	512.854	ug/L	m
4) T	3,5-Dinitroaniline	5.253	23535159	511.057	ug/L	m
5) T	4-Amino-2,6-DNT	4.880	16219825	516.408	ug/L	m
6) T	2-NT	5.873	11974356	509.102	ug/L	m
7) T	2-Amino-4,6-DNT	6.373	21311094	513.240	ug/L	m
8) T	3-NT	6.993	14136686	510.173	ug/L	
9) T	1,3-DNB	9.147	28581861	520.162	ug/L	
10) T	4-NT	7.860	11759716	519.059	ug/L	m
12) T	2,6-DNT	8.833	12553164	514.394	ug/L	m
13) T	2,4-DNT	14.840	25979956	514.609	ug/L	
14) T	Tetryl	13.020	14255446	487.896	ug/L	m
15) T	1,3,5-TNB	19.840	21117484	516.366	ug/L	
16) T	2,4,6-TNT	20.820	19559701	508.406	ug/L	

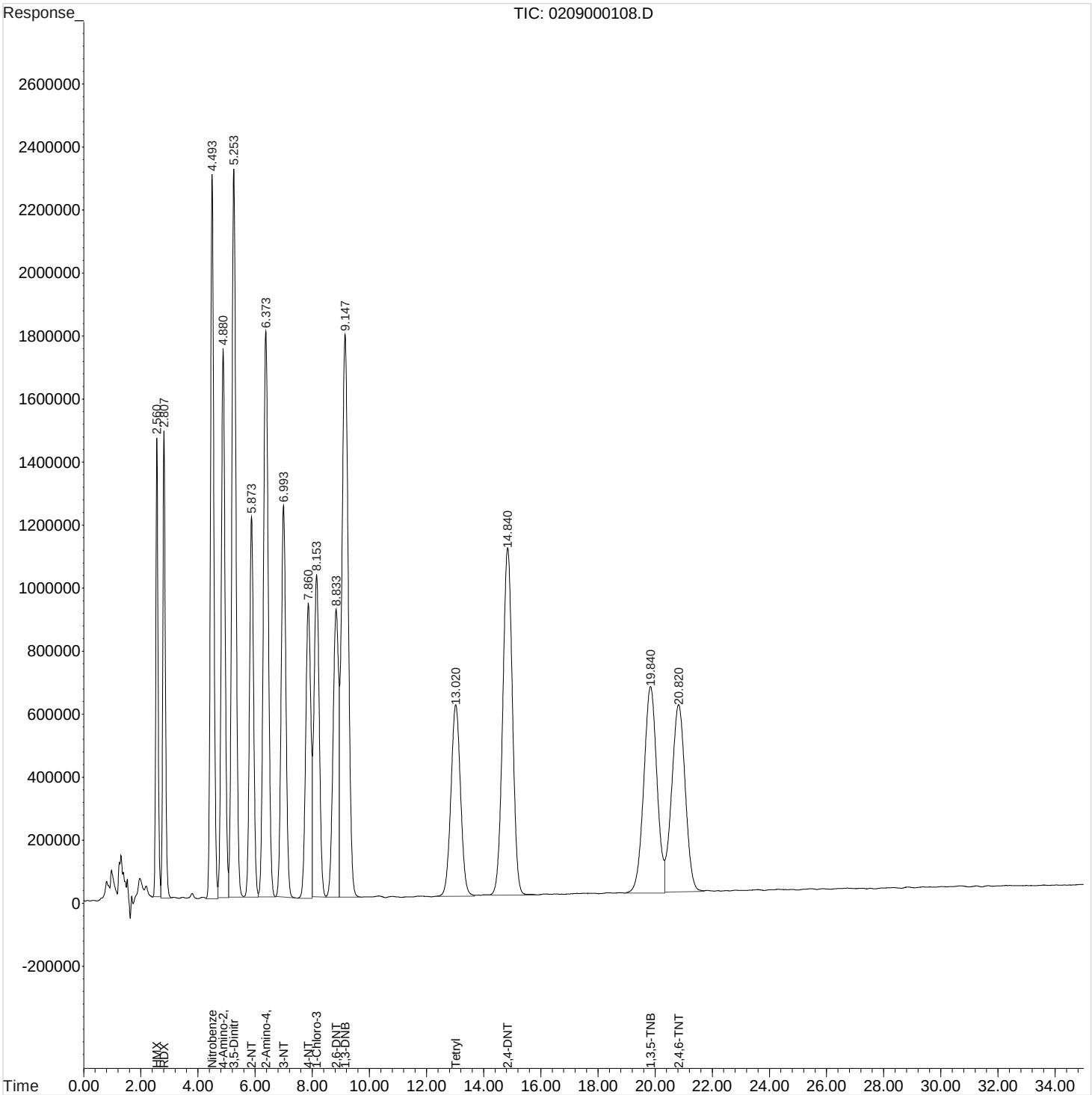
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:00:13 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

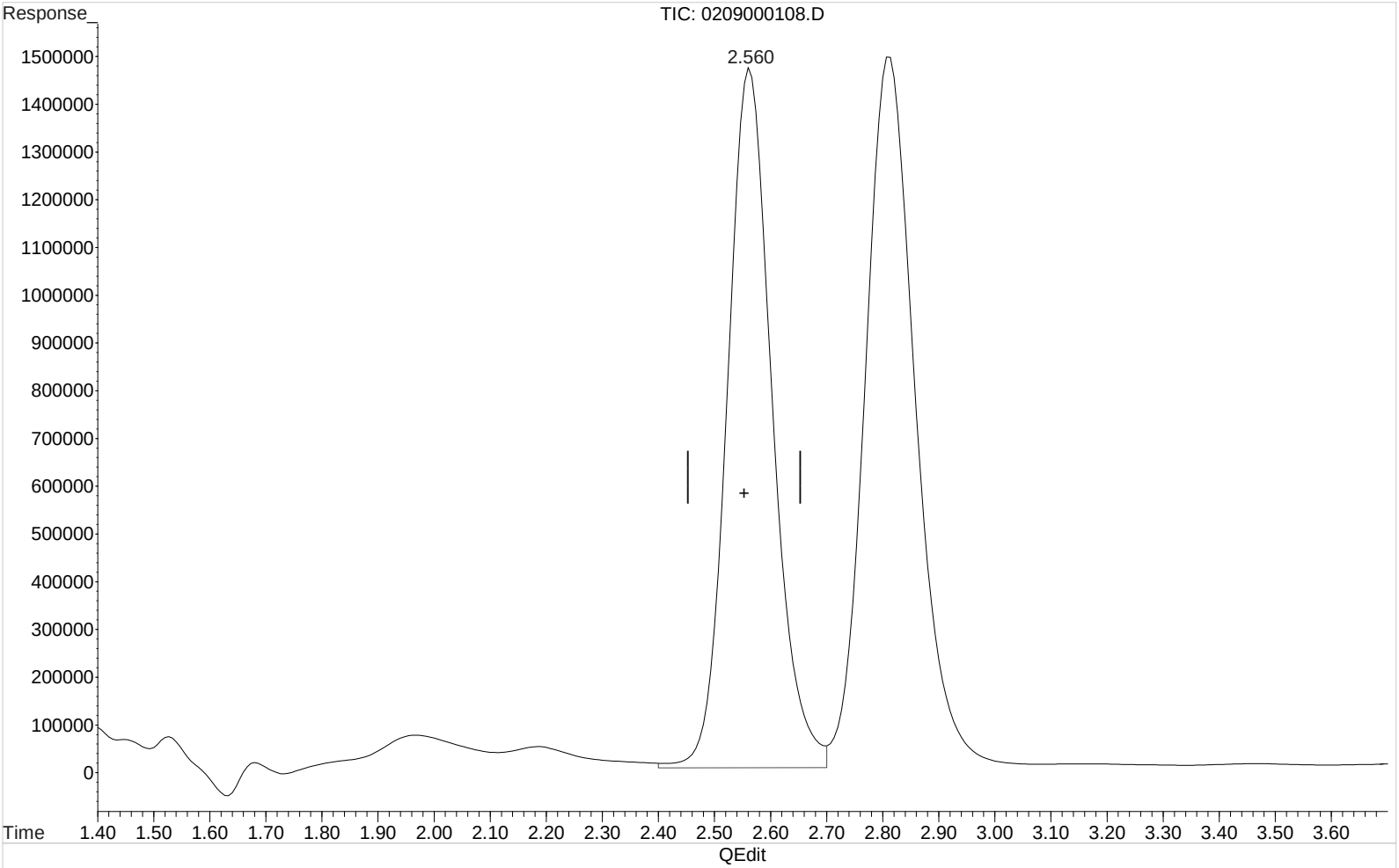


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.560min 523.210 ug/L

response 8165394

Manual Integration:

Before

02/13/17

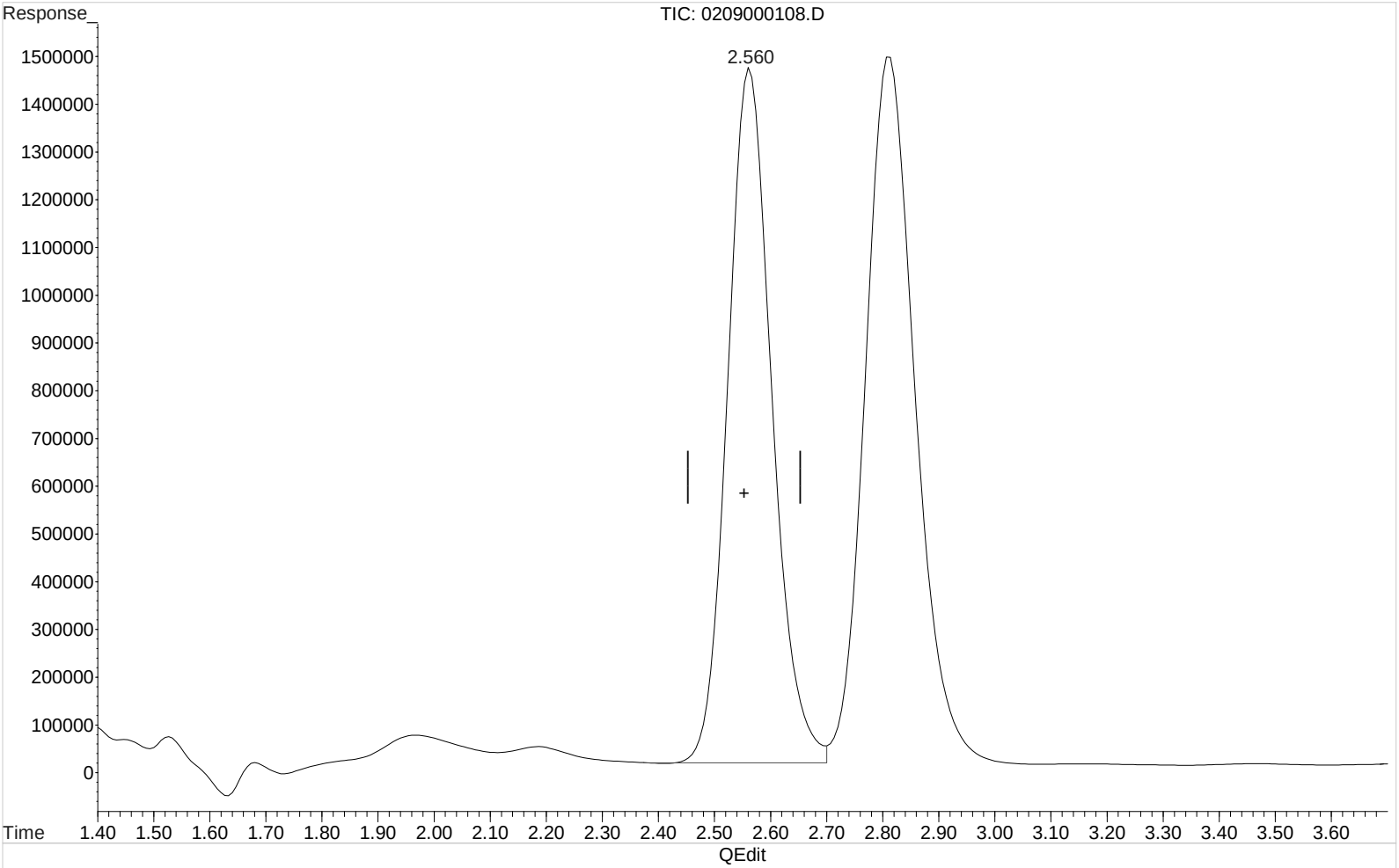
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.560min 511.454 ug/L m

response 7981926

Manual Integration:

After

BLC

02/13/17

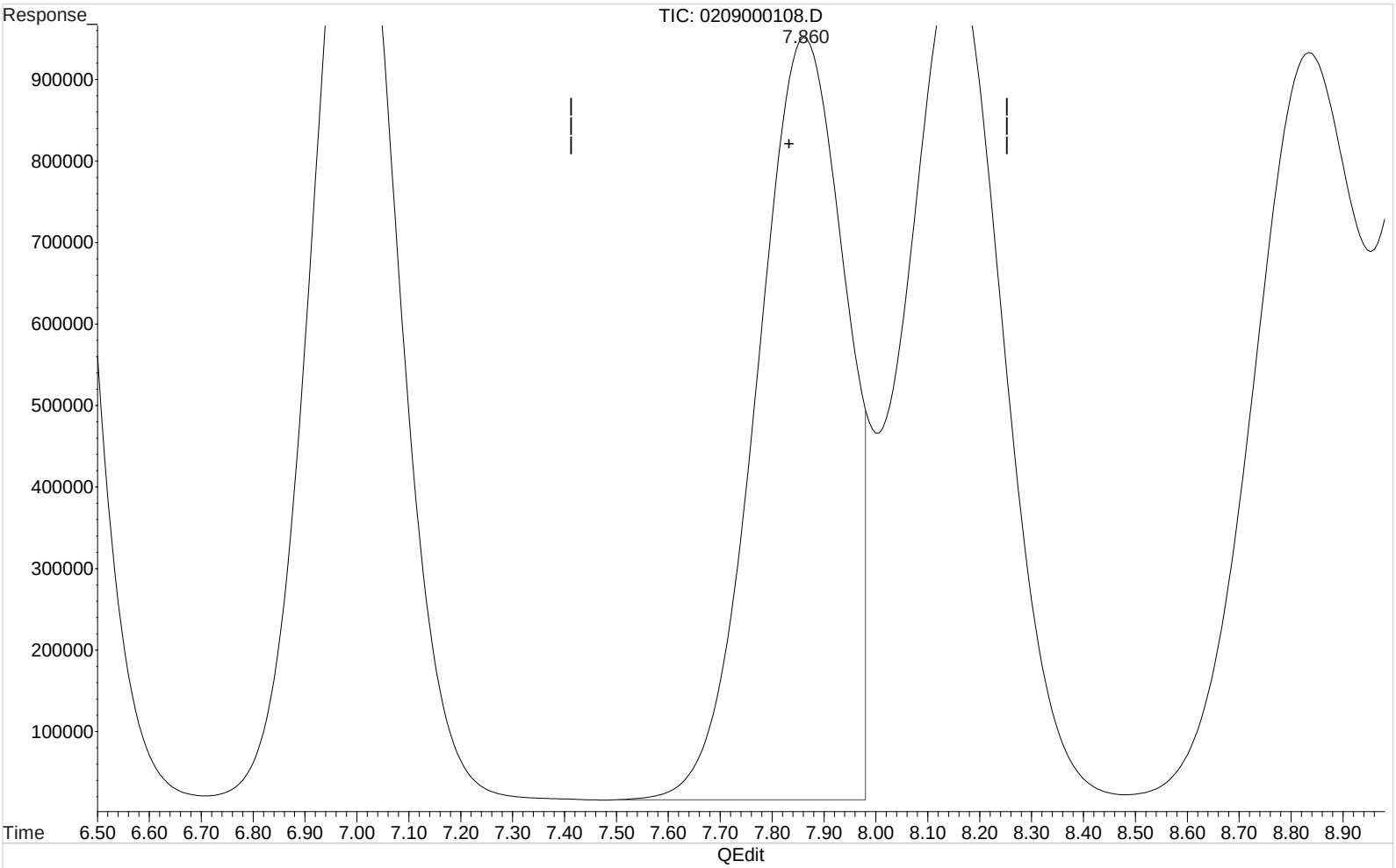
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.860min 494.354 ug/L

response 11200008

Manual Integration:

Before

02/13/17

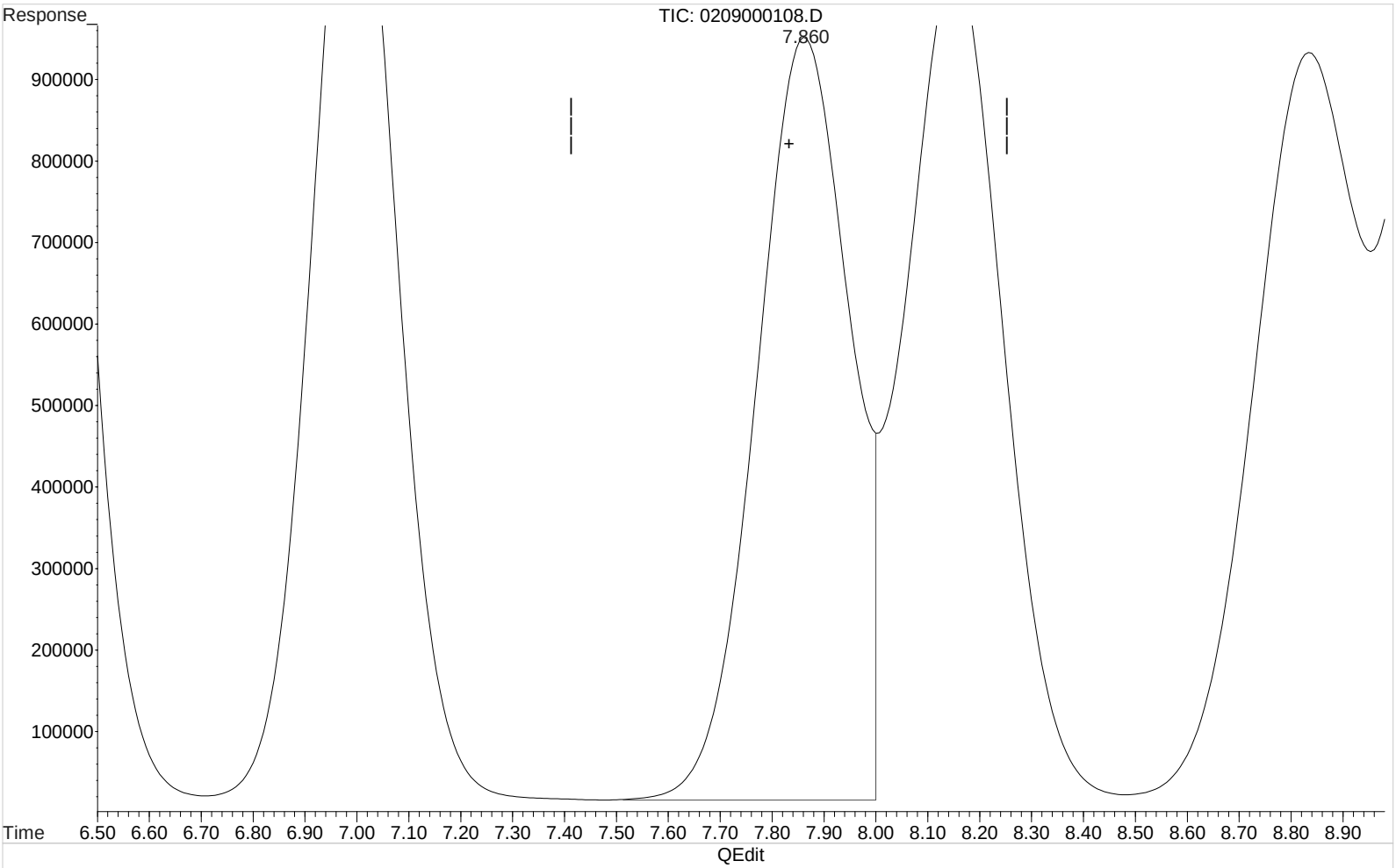
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.860min 519.059 ug/L m

response 11759716

Manual Integration:

After

BLC

02/13/17

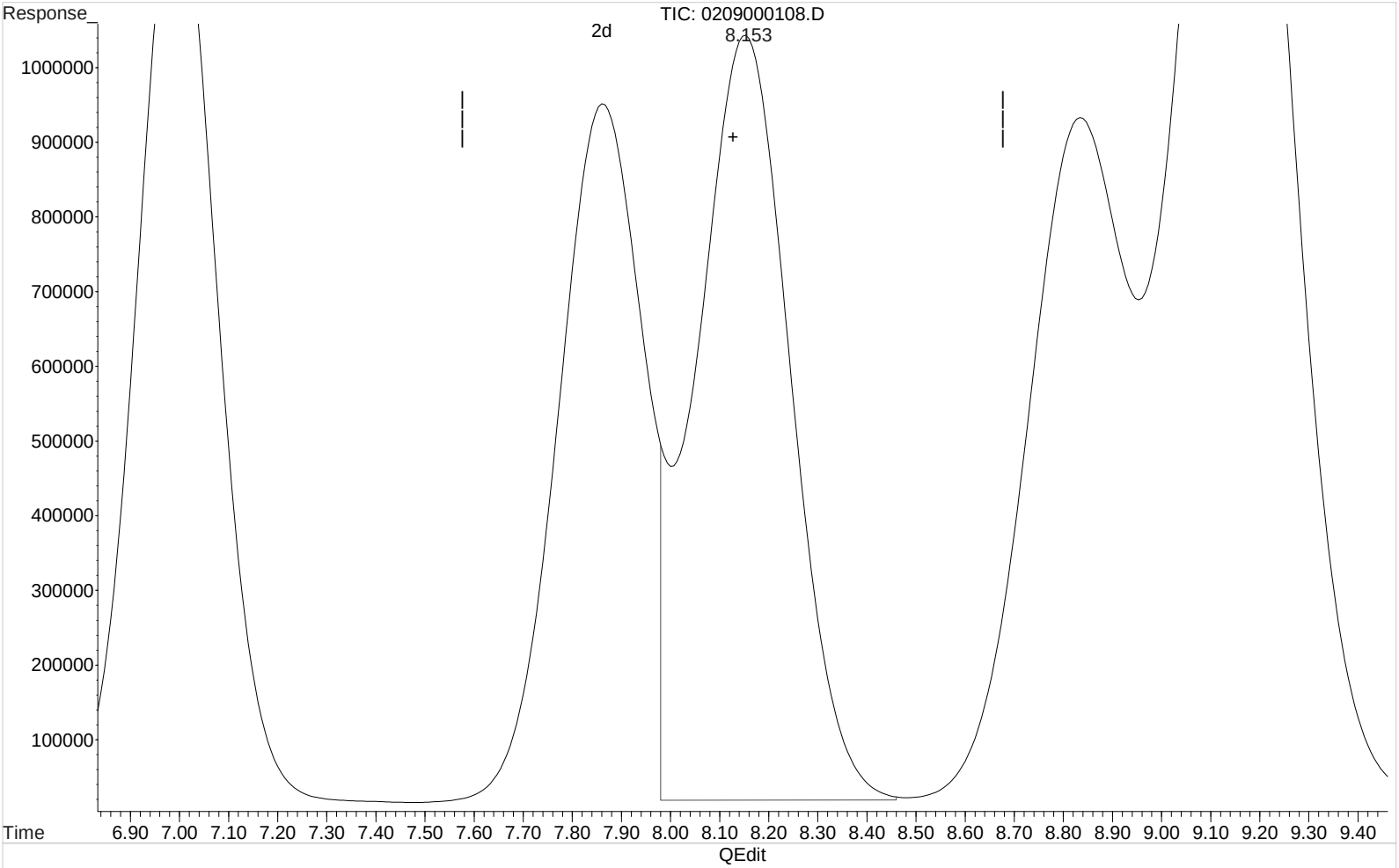
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(11) 1-Chloro-3-Nitrobenzene (S)

8.153min 524.076 ug/L

response 13790355

Manual Integration:

Before

02/13/17

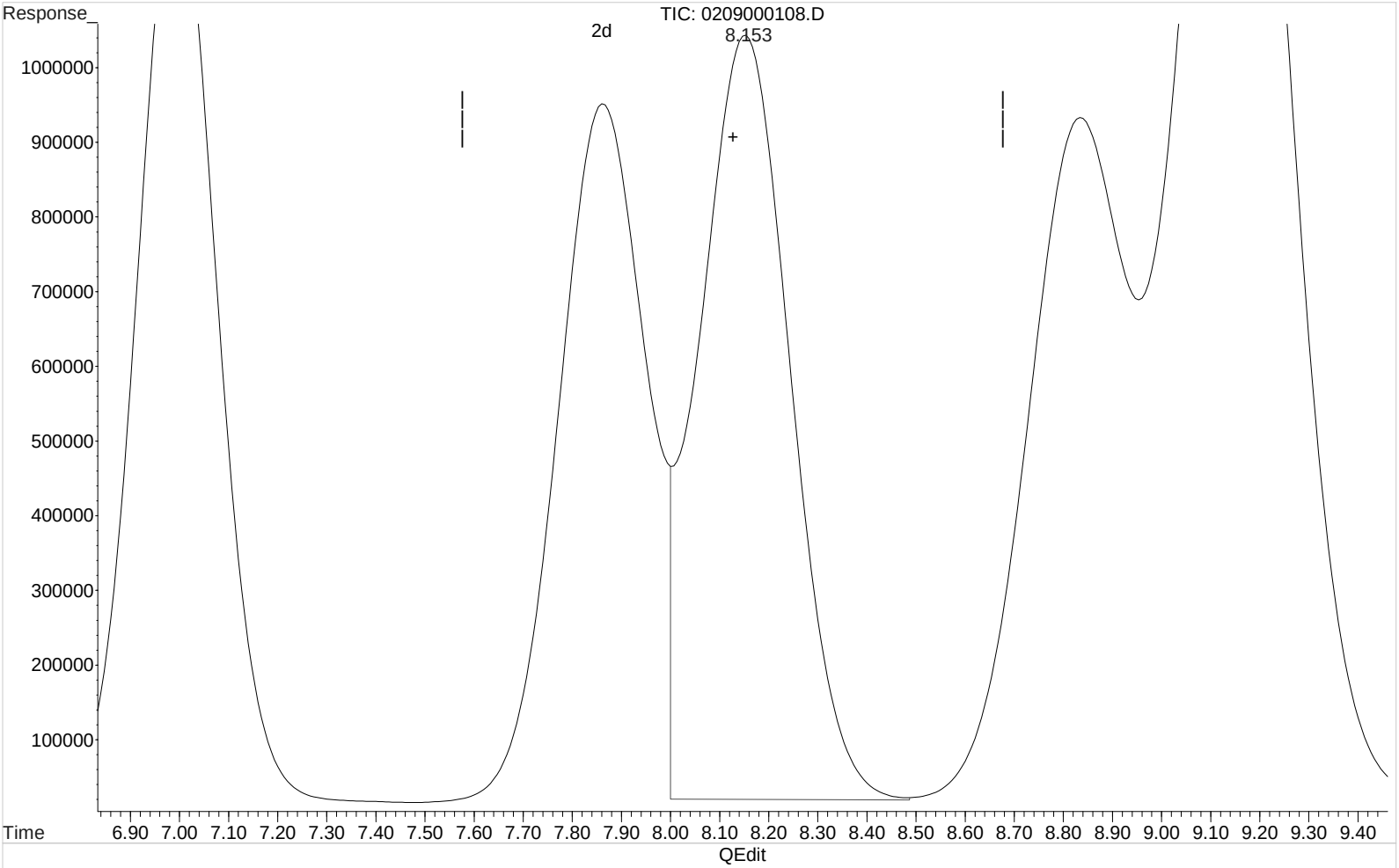
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(11) 1-Chloro-3-Nitrobenzene (S)

8.153min 502.803 ug/L m

response 13230585

Manual Integration:

After

BLC

02/13/17

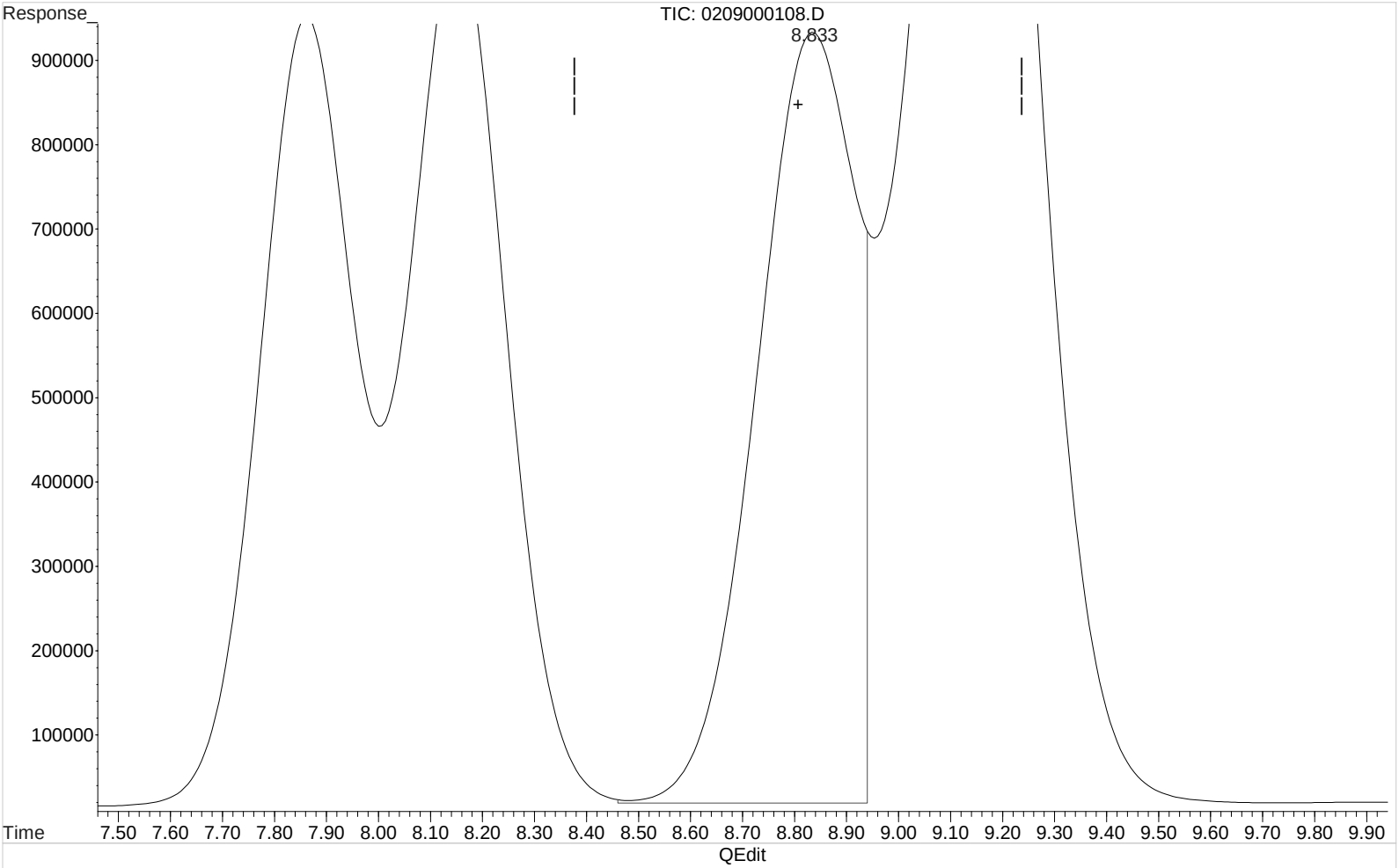
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(12) 2,6-DNT (T)

8.833min 492.505 ug/L

response 12018989

Manual Integration:

Before

02/13/17

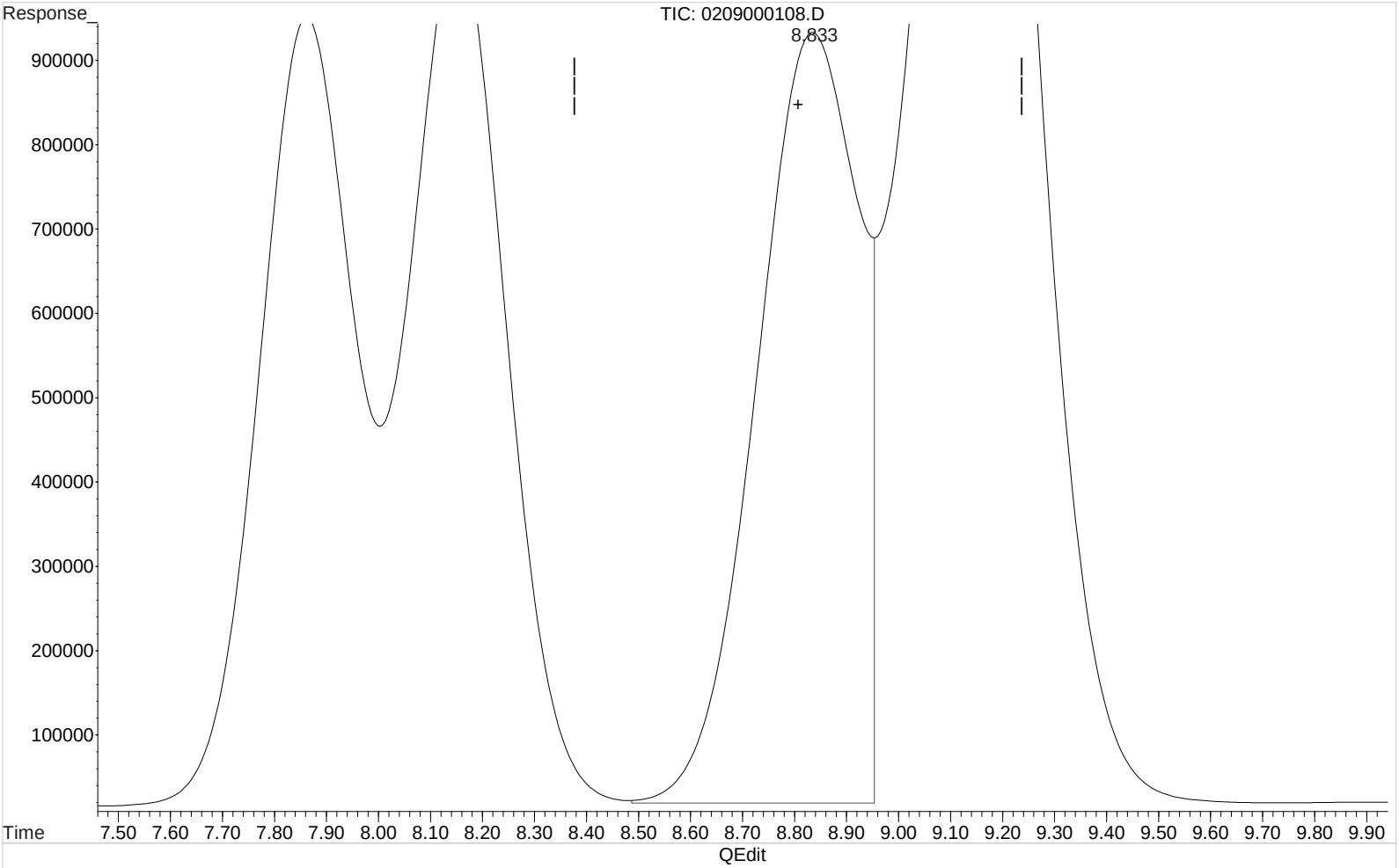
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(12) 2,6-DNT (T)

8.833min 514.394 ug/L m

response 12553164

Manual Integration:

After

BLC

02/13/17

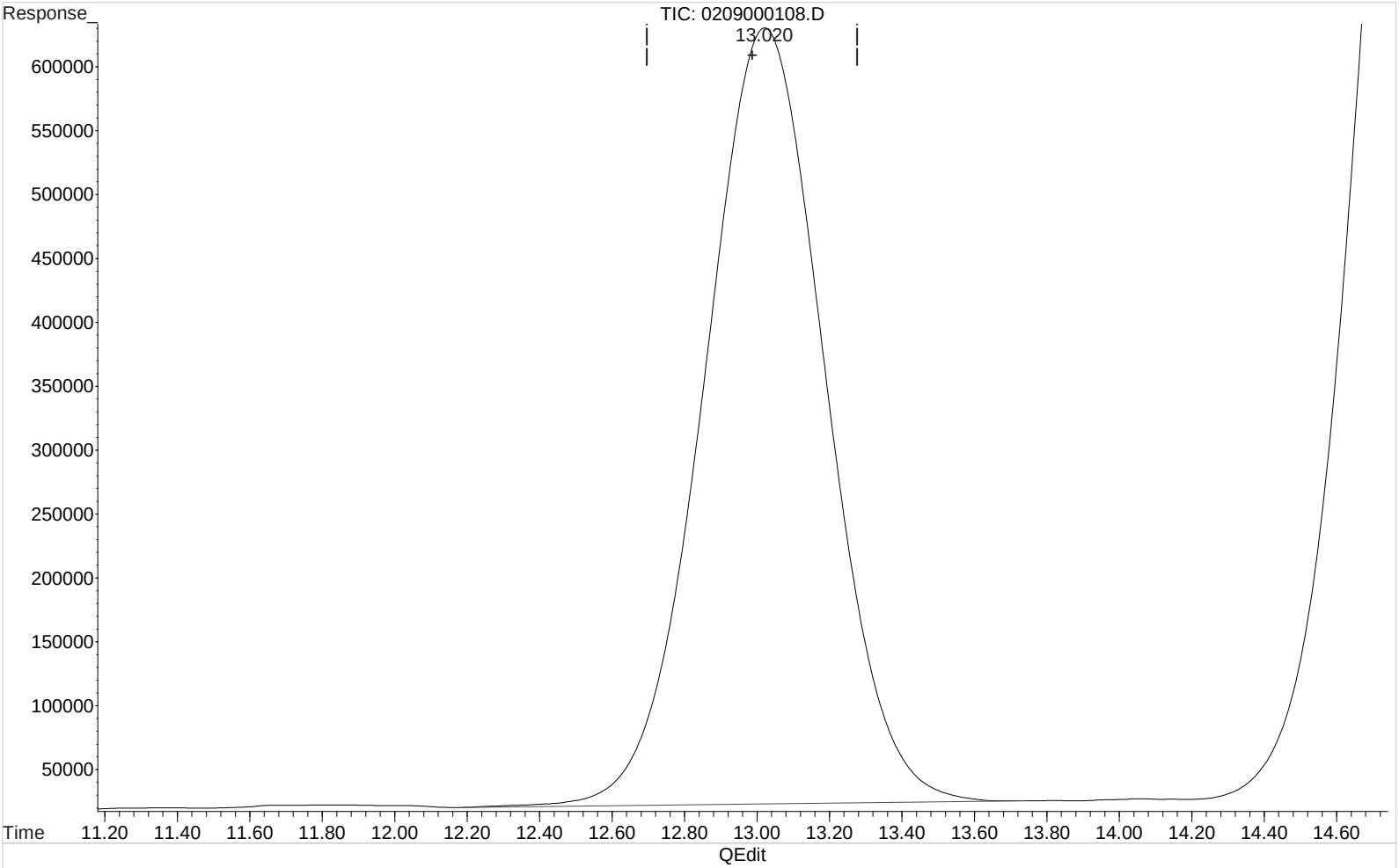
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:59:29 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(14) Tetryl (T)

13.020min 484.451 ug/L

response 14154790

Manual Integration:

Before

02/13/17

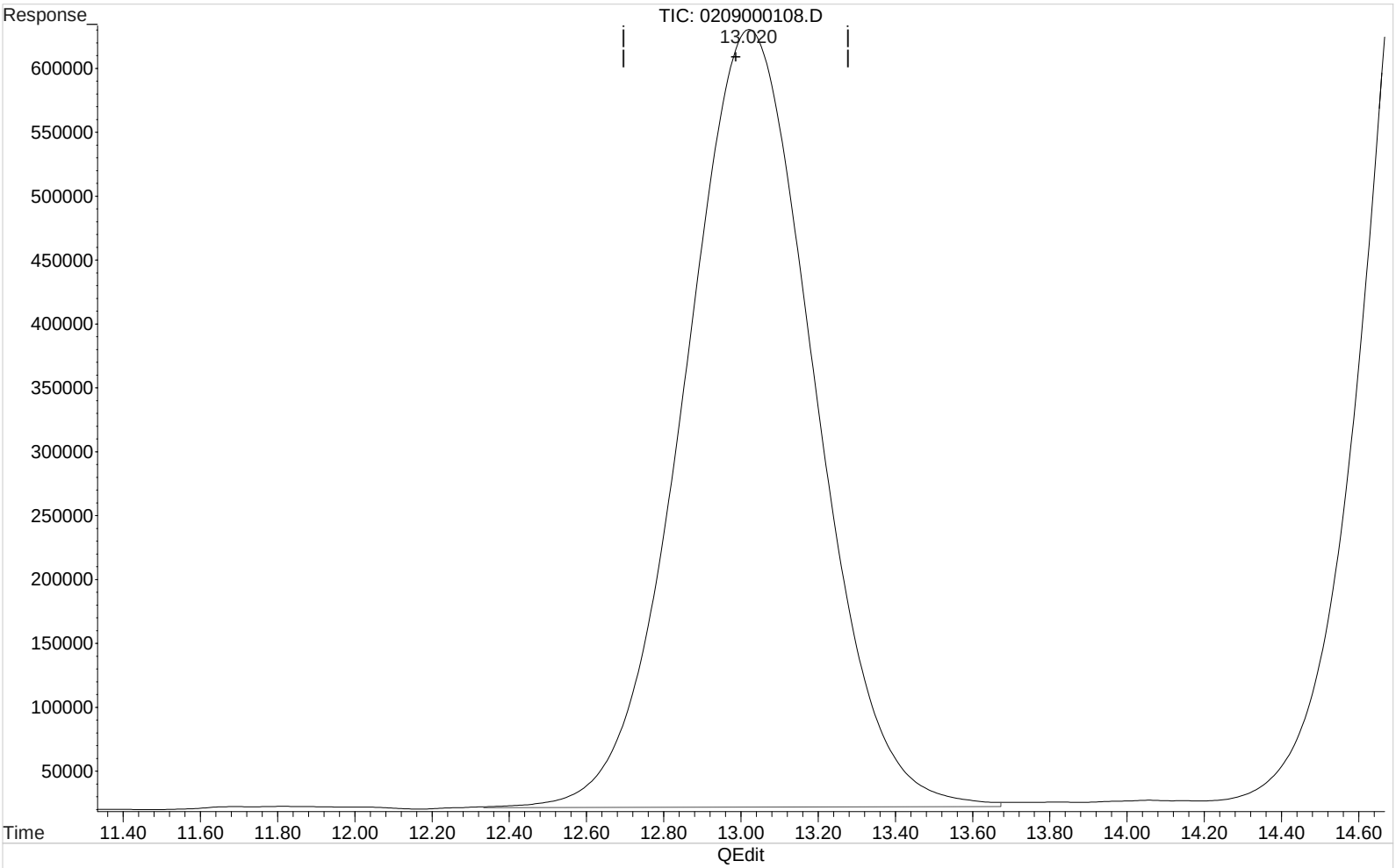
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:00:13 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(14) Tetryl (T)

13.020min 487.896 ug/L m

response 14255446

Manual Integration:

After

BLC

02/13/17

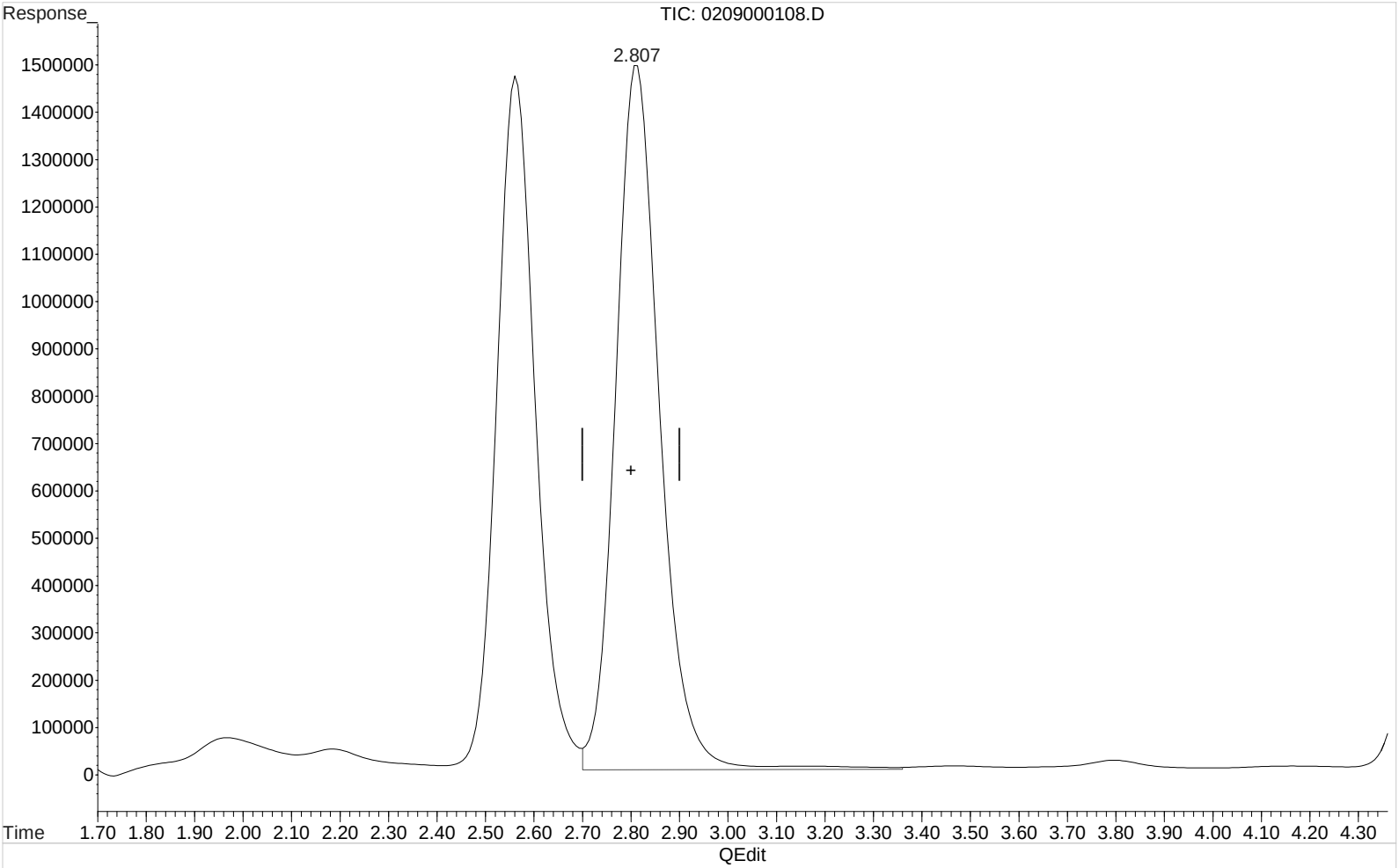
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.807min 528.530 ug/L

response 9406681

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b) (6)

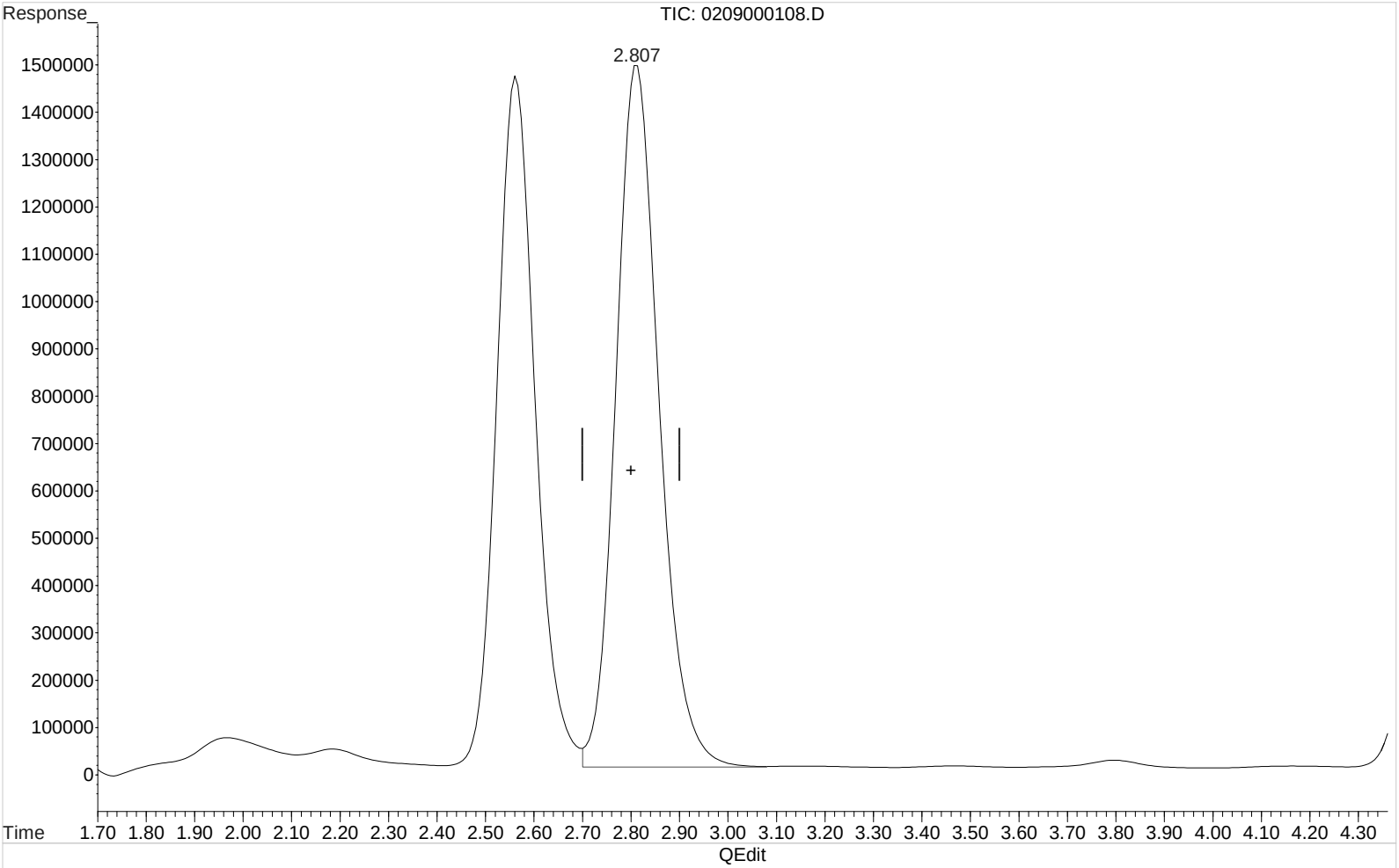
1 02/13/17

2 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.807min 515.685 ug/L m

response 9178077

Manual Integration:

After

BLC

02/13/17

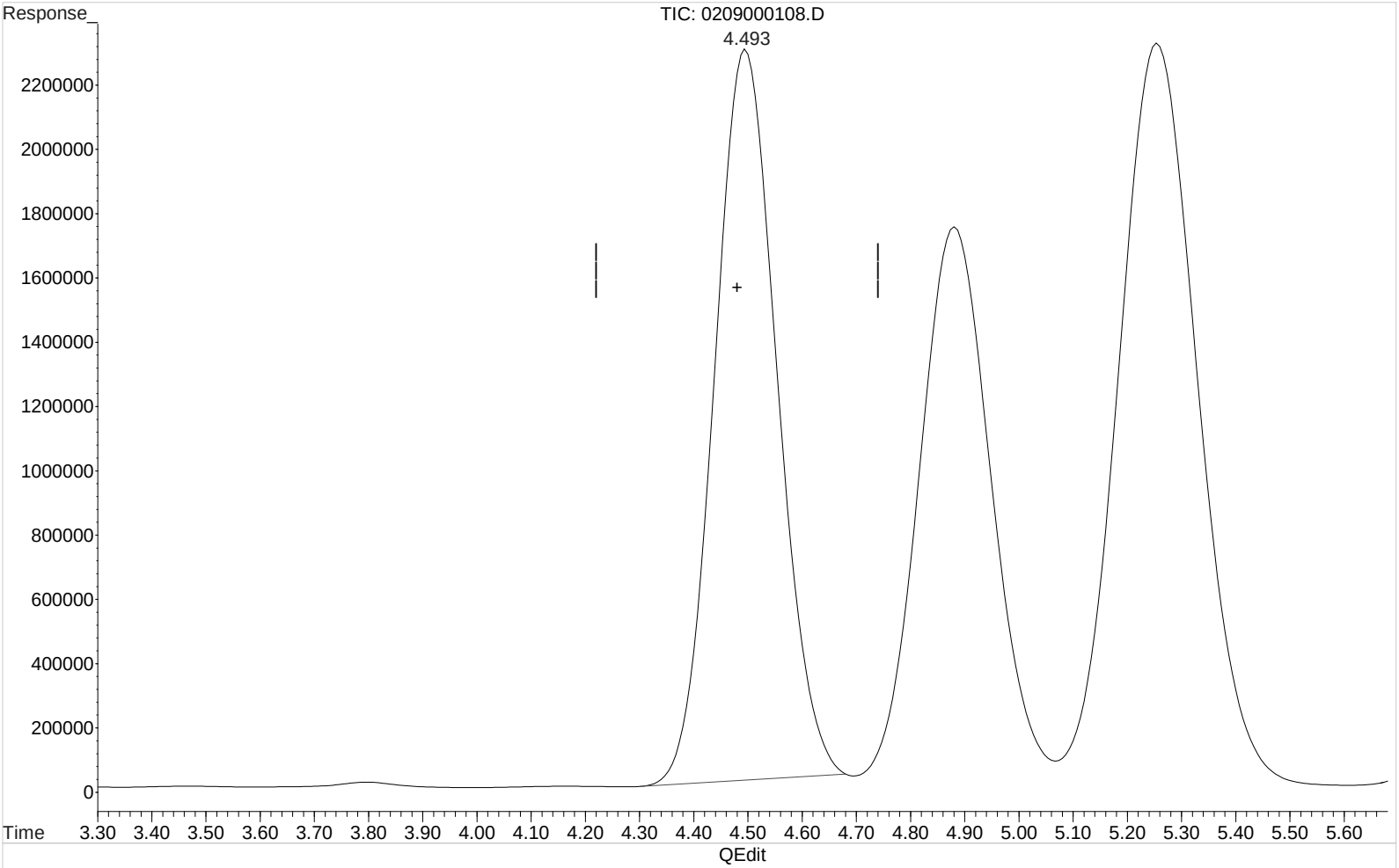
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(3) Nitrobenzene (T)

4.493min 497.348 ug/L

response 18344510

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

(b) (6)

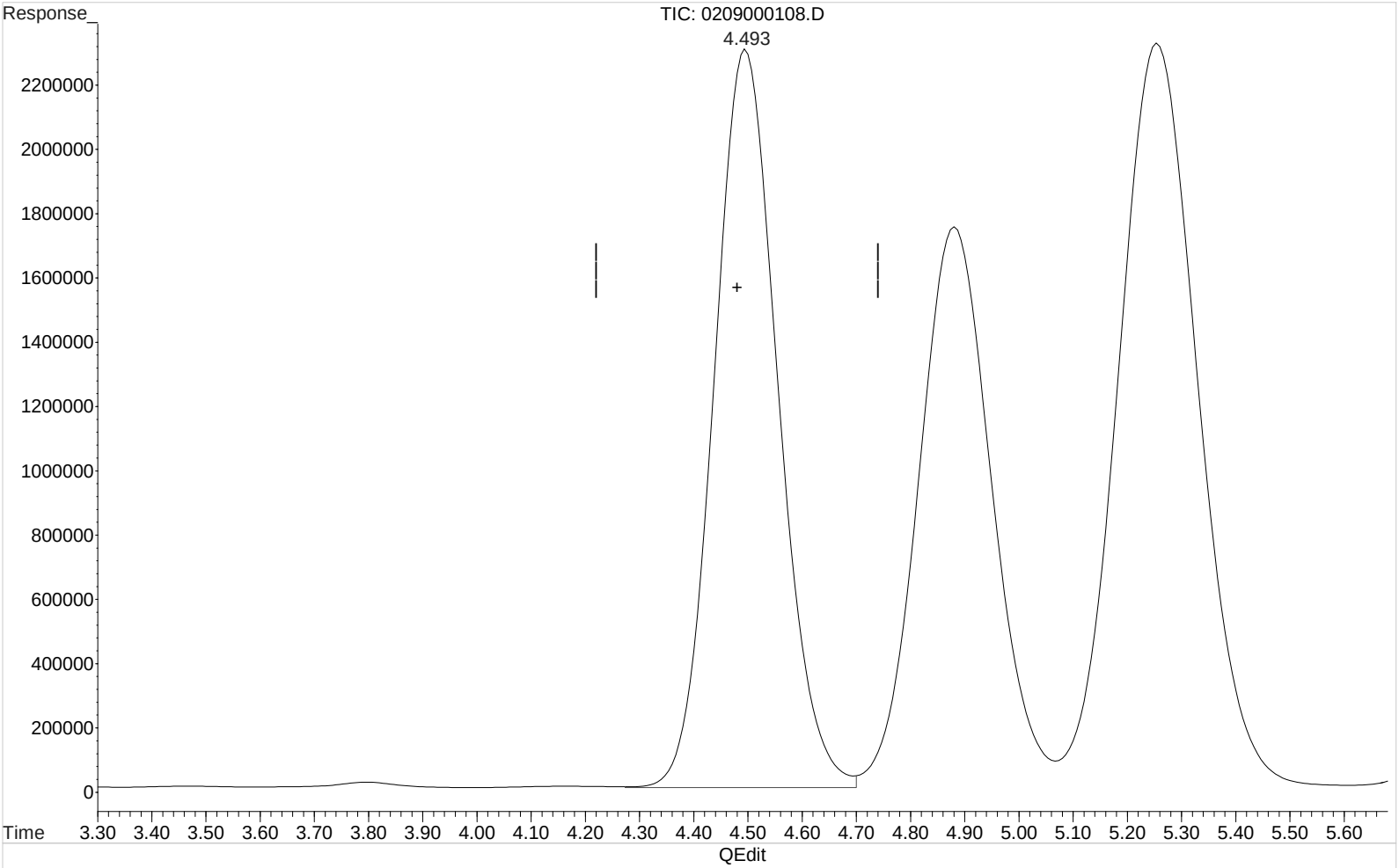
2/13/17

2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(3) Nitrobenzene (T)

4.493min 512.854 ug/L m

response 18916422

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b) (6)

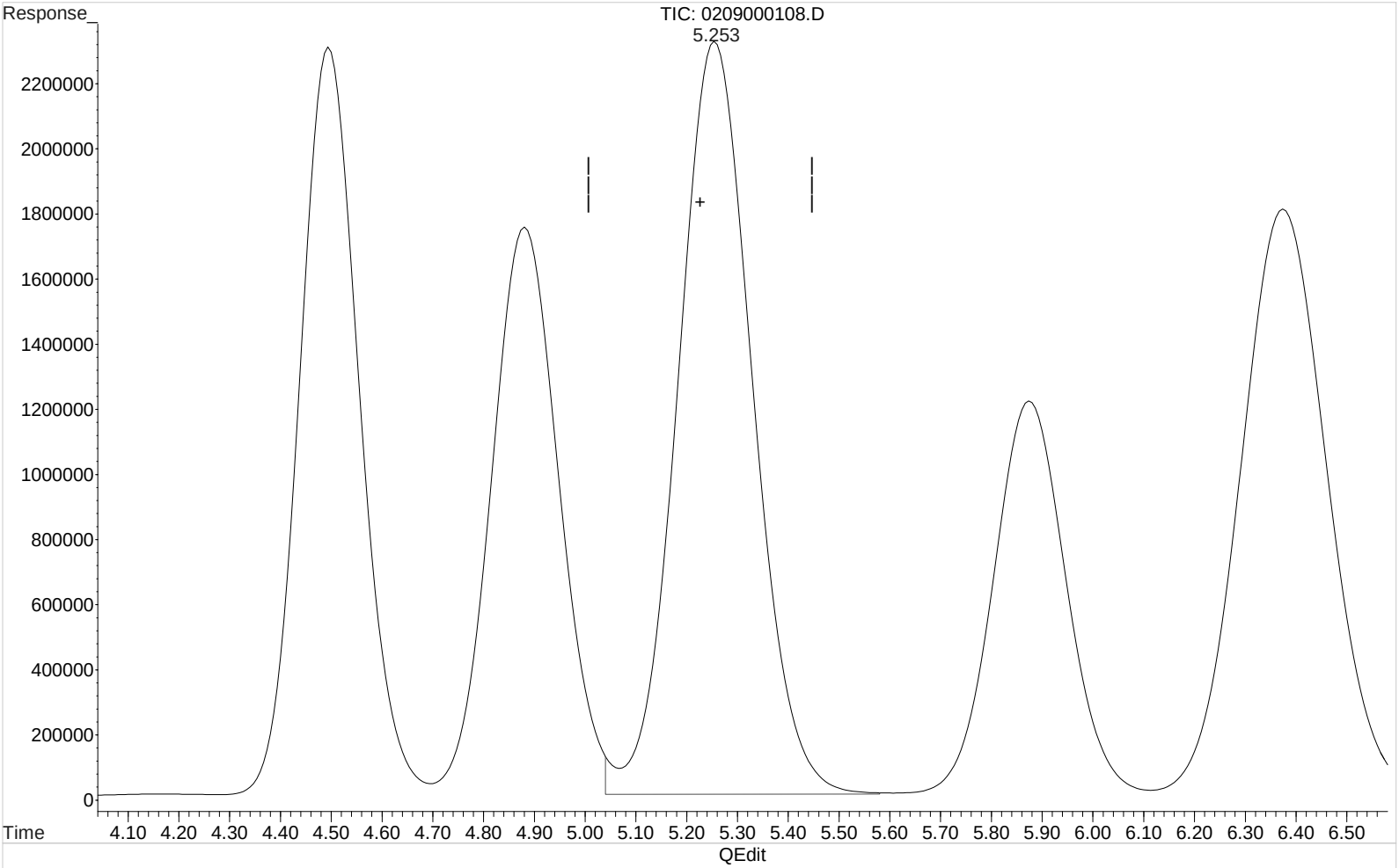
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(4) 3,5-Dinitroaniline (T)

5.253min 515.473 ug/L

response 23738537

Manual Integration:

Before

02/13/17

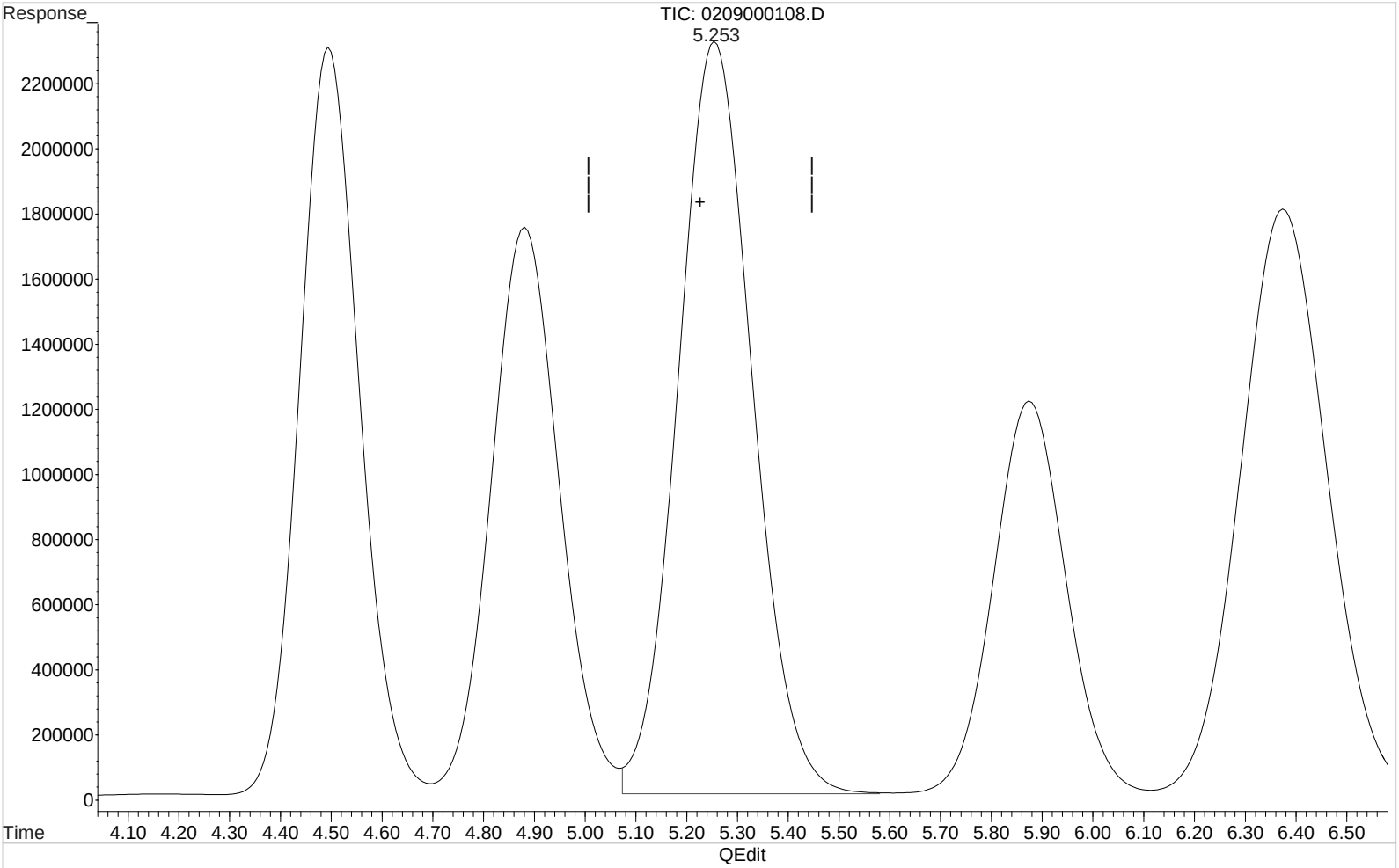
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(4) 3,5-Dinitroaniline (T)

5.253min 511.057 ug/L m

response 23535159

Manual Integration:

After

BLC

02/13/17

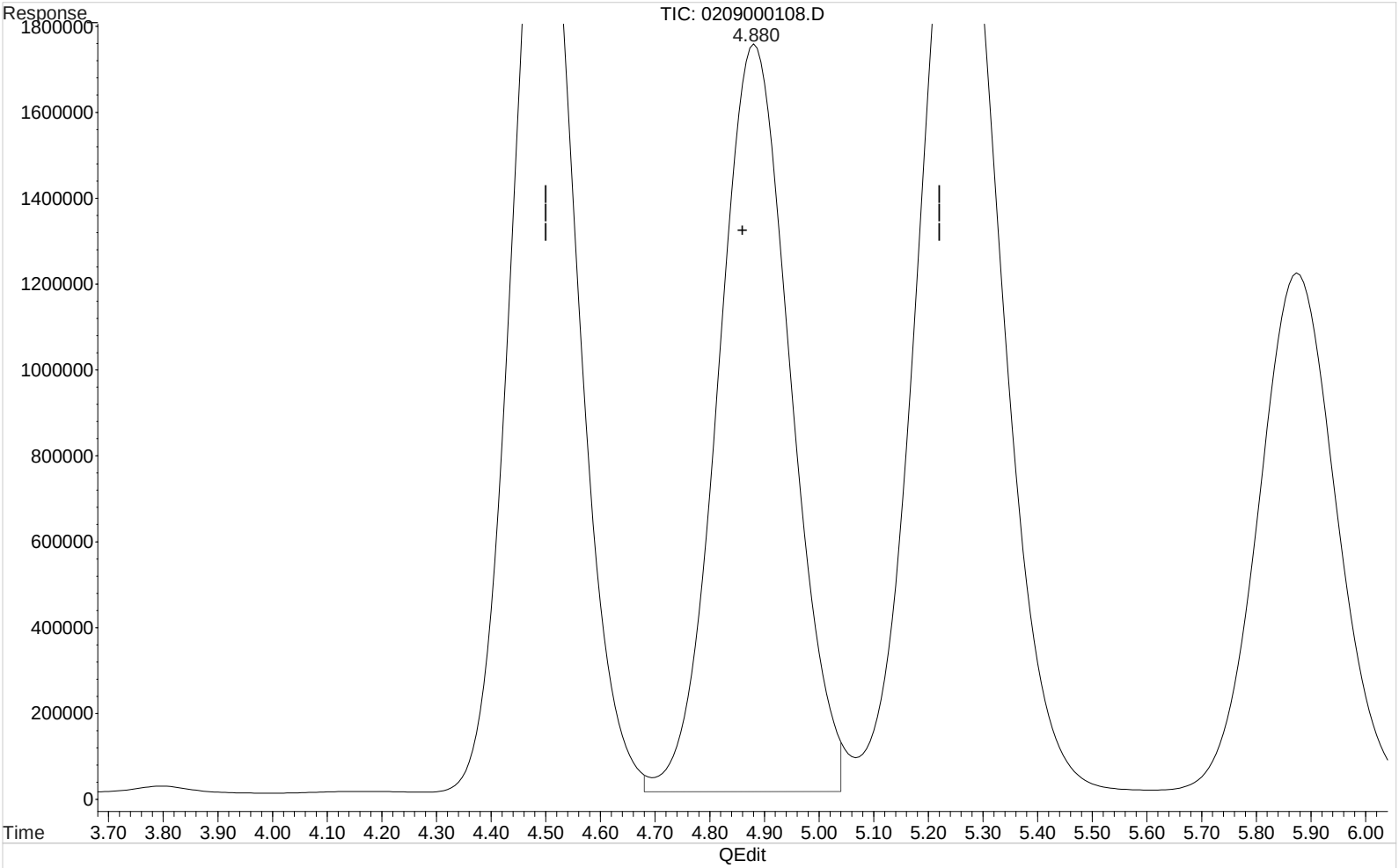
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(5) 4-Amino-2,6-DNT (T)

4.880min 512.609 ug/L

response 16100487

Manual Integration:

Before

02/13/17

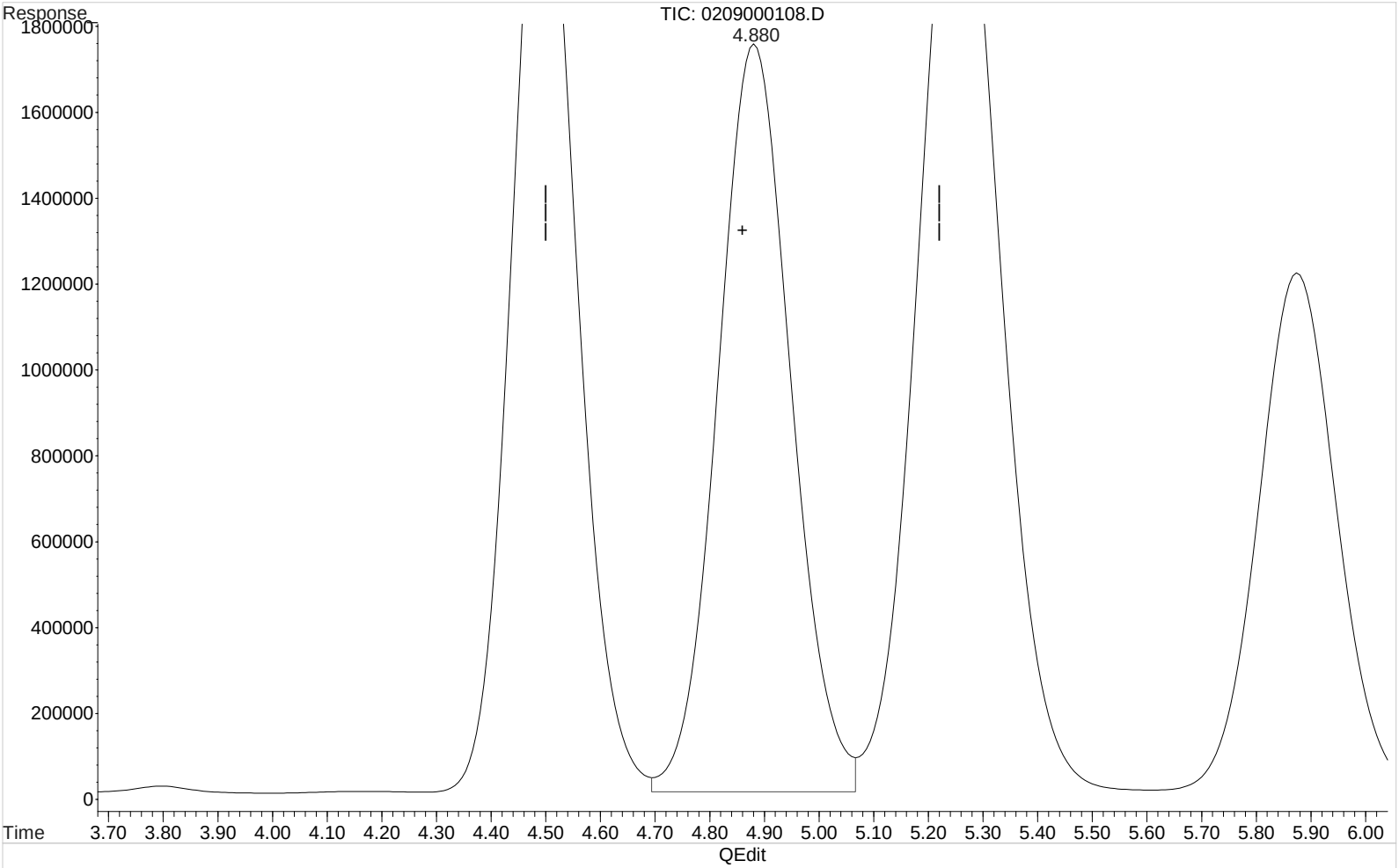
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(5) 4-Amino-2,6-DNT (T)

4.880min 516.408 ug/L m

response 16219825

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

(b) (6)

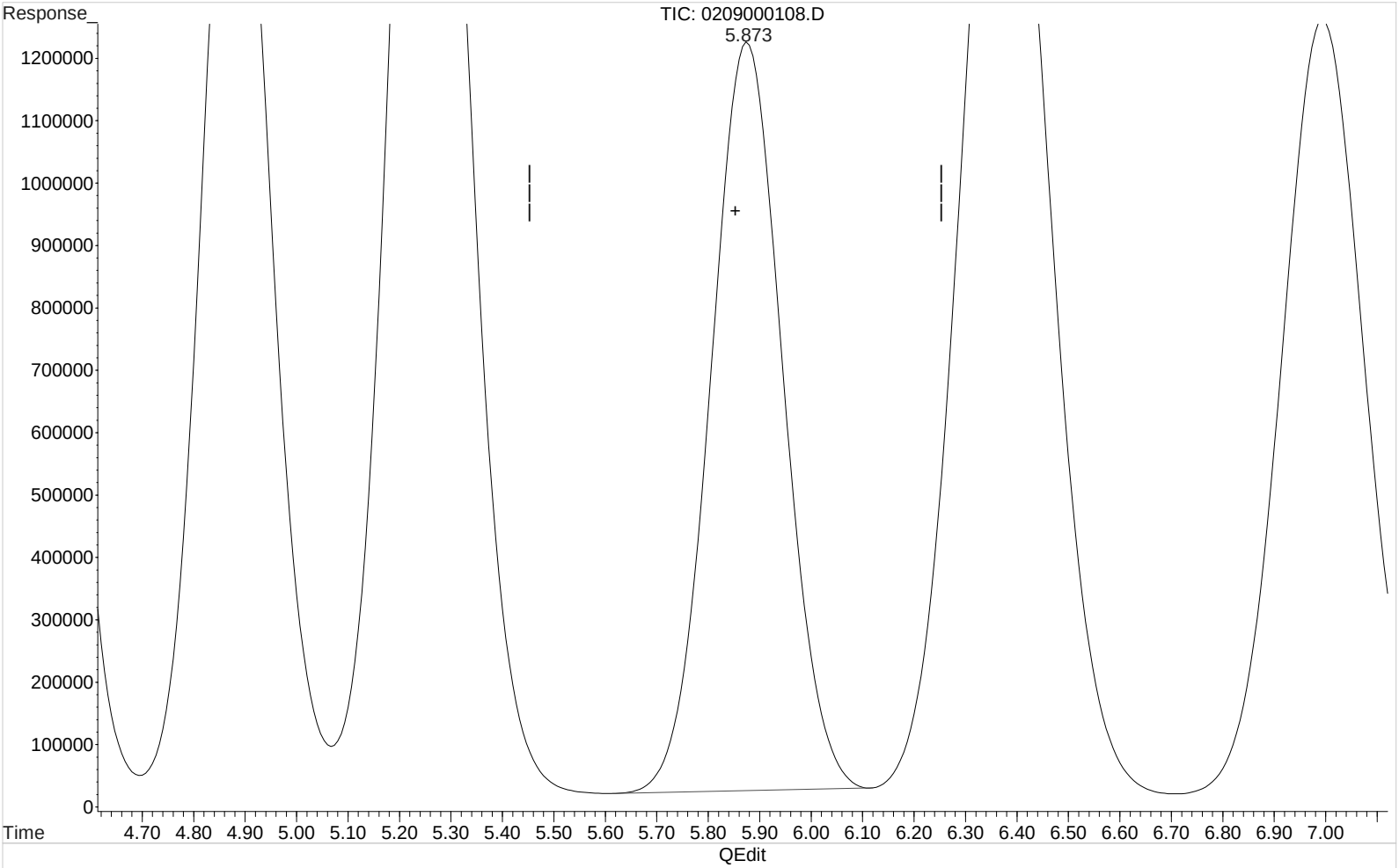
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.873min 500.725 ug/L

response 11777330

Manual Integration:

Before

02/13/17

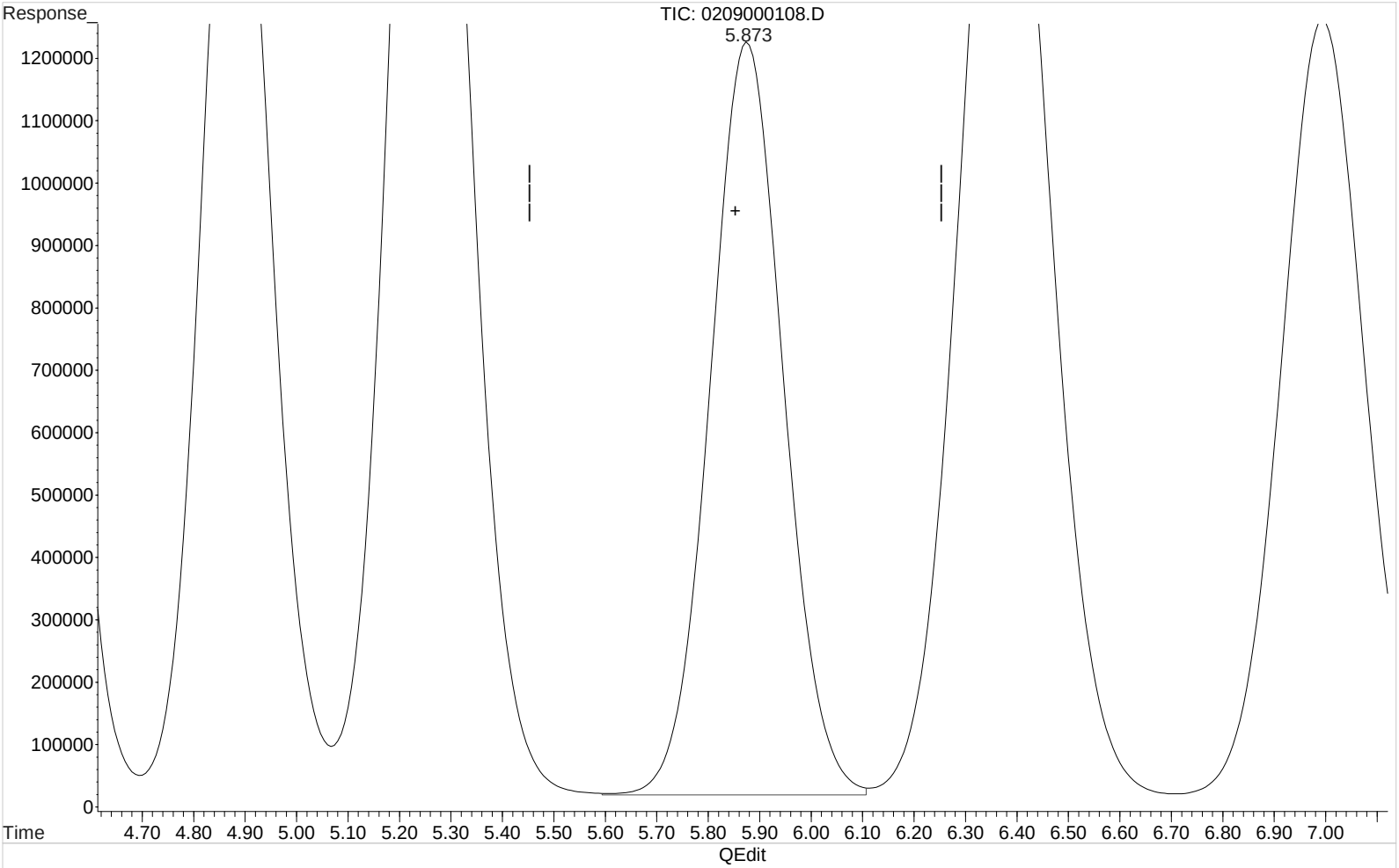
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.873min 509.102 ug/L m

response 11974356

Manual Integration:

After

BLC

02/13/17

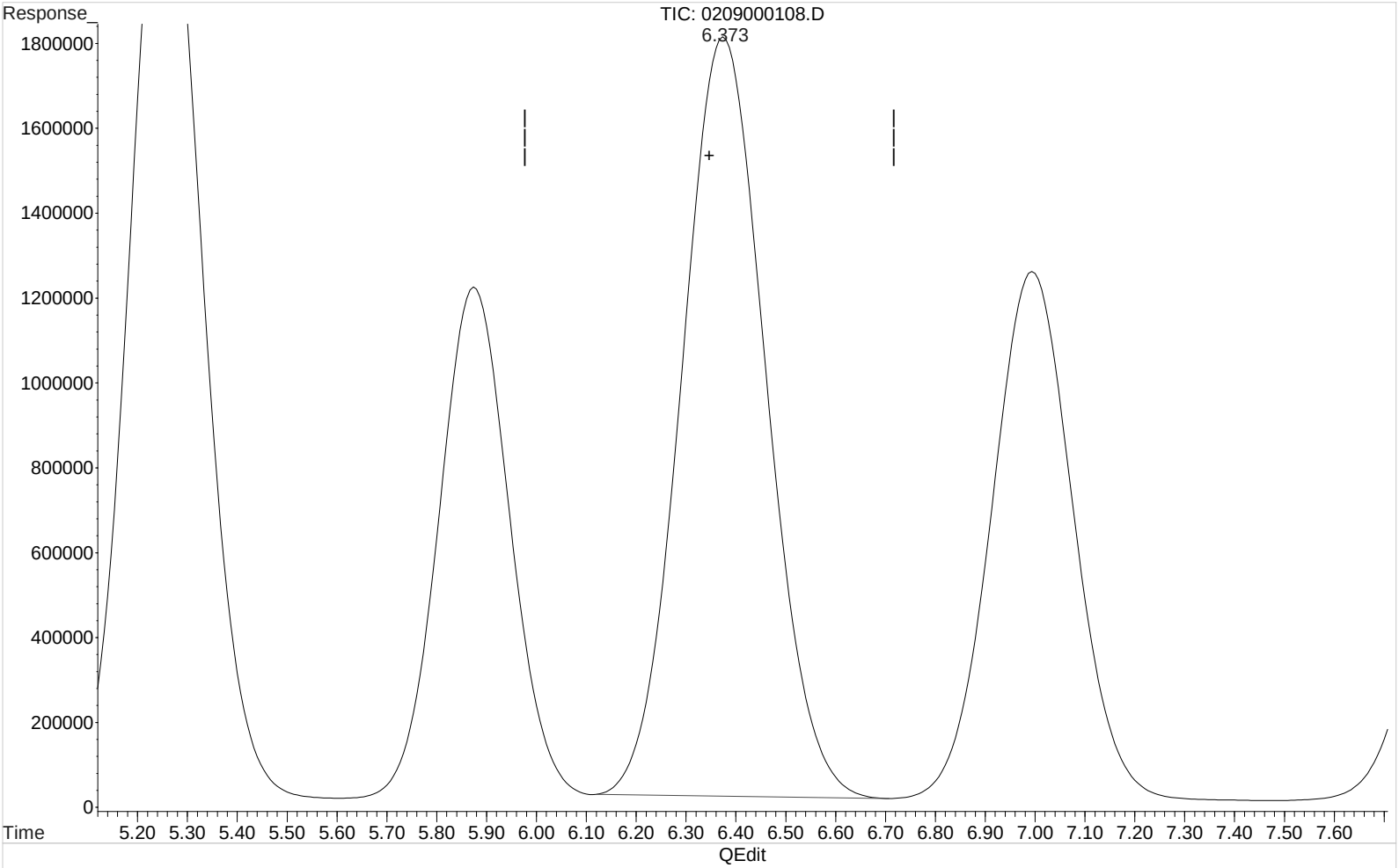
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.373min 508.092 ug/L

response 21097350

Manual Integration:

Before

02/13/17

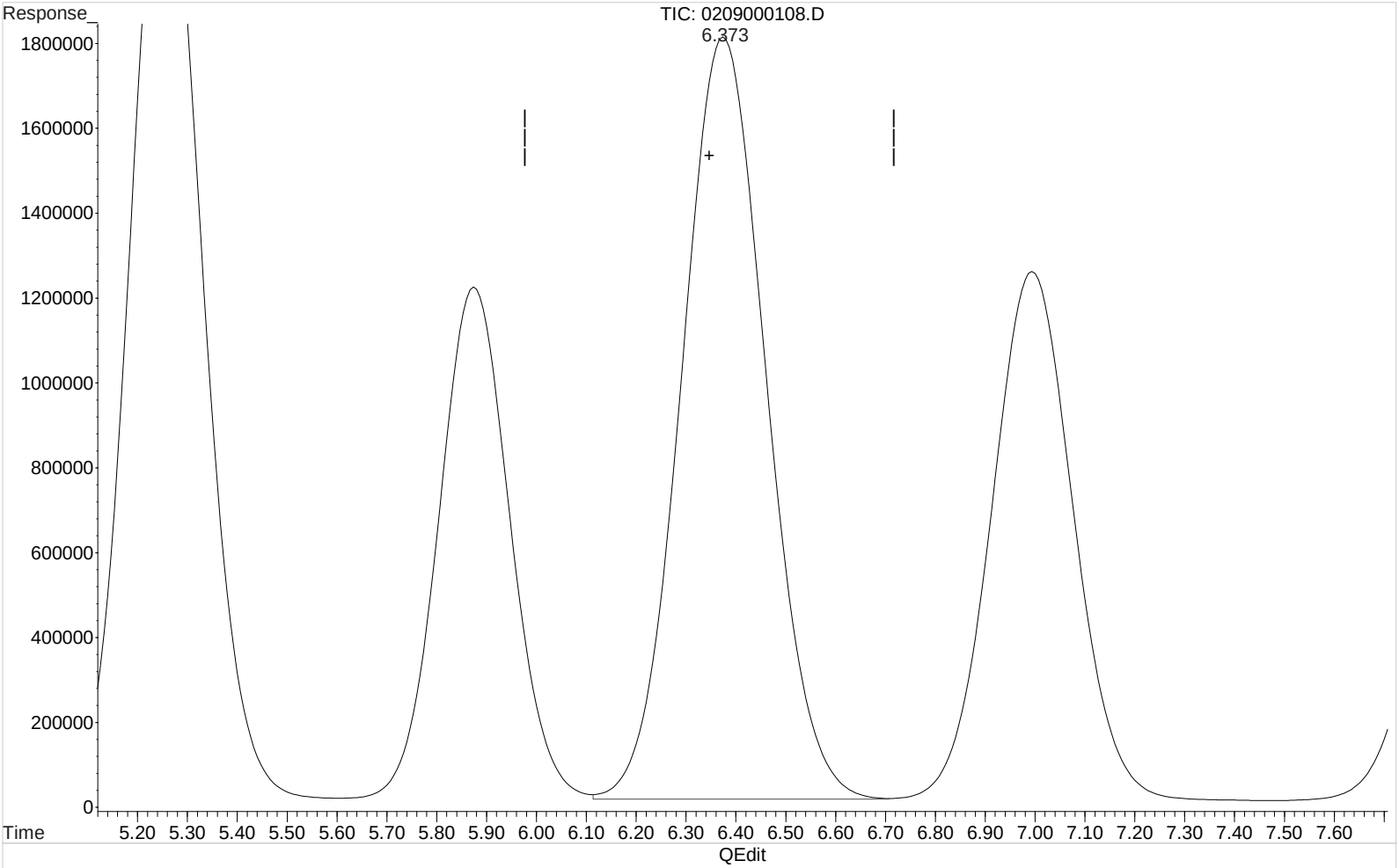
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.373min 513.240 ug/L m

response 21311094

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:53:53 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
11)	S	1-Chloro-3-Nitrobenzene	8.140	26673138	1017.135	ug/L	
		Target Compounds					
1)	T	HMX	2.560	15754141	1011.865	ug/L	m
2)	T	RDX	2.807	18282213	1034.253	ug/L	
3)	T	Nitrobenzene	4.487	37153839	1009.140	ug/L	m
4)	T	3,5-Dinitroaniline	5.247	46792847	1020.192	ug/L	
5)	T	4-Amino-2,6-DNT	4.873	32003465	1023.774	ug/L	
6)	T	2-NT	5.867	23562112	1002.211	ug/L	m
7)	T	2-Amino-4,6-DNT	6.360	42381135	1025.978	ug/L	m
8)	T	3-NT	6.987	27875884	1007.514	ug/L	
9)	T	1,3-DNB	9.133	55586286	1014.562	ug/L	
10)	T	4-NT	7.847	22827299	1009.477	ug/L	
12)	T	2,6-DNT	8.820	24988433	1030.126	ug/L	
13)	T	2,4-DNT	14.813	51254762	1019.136	ug/L	
14)	T	Tetryl	13.000	28722923	978.901	ug/L	
15)	T	1,3,5-TNB	19.813	41471658	1017.646	ug/L	
16)	T	2,4,6-TNT	20.800	39028968	1018.142	ug/L	

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

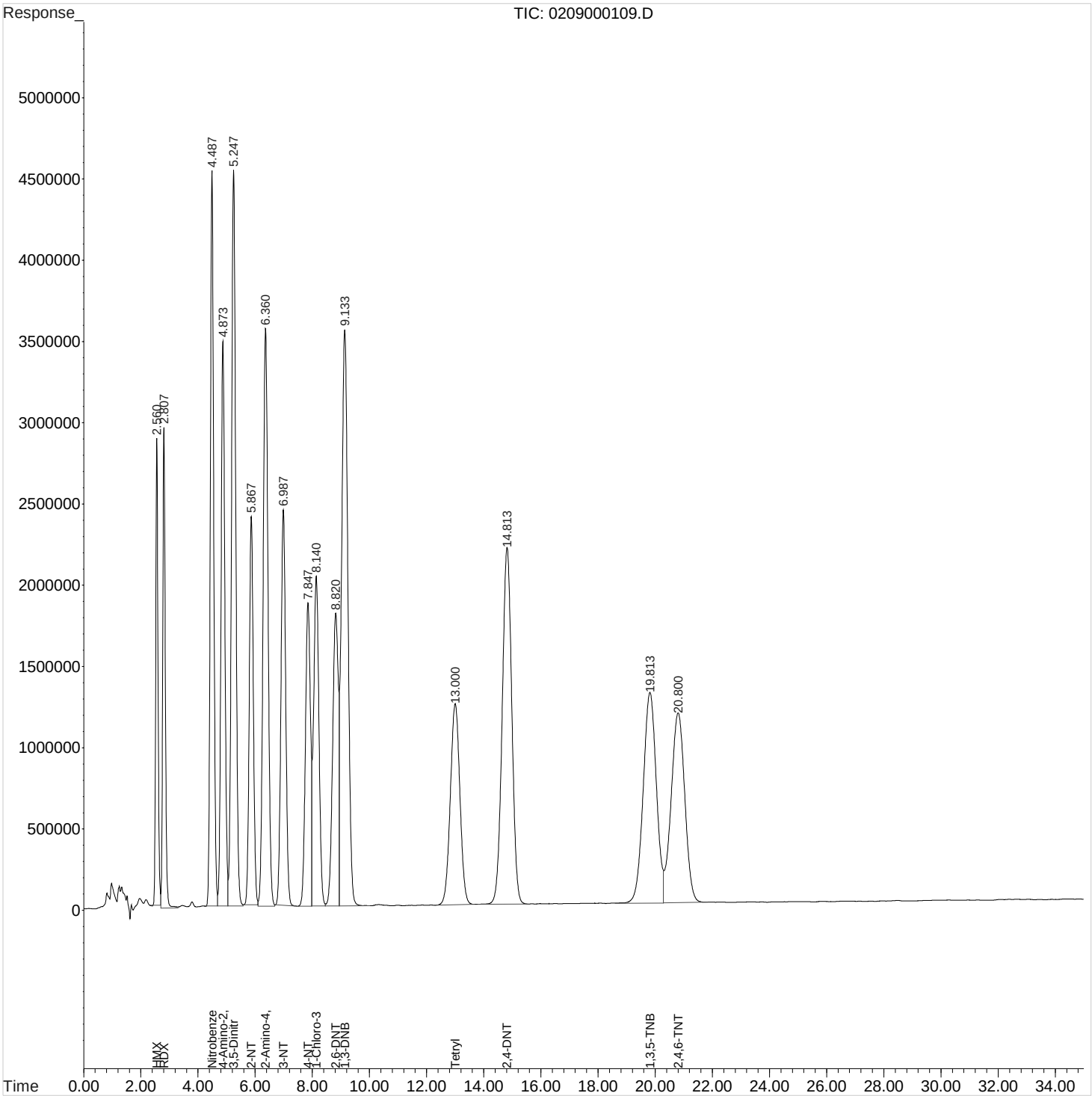
(b) (6)

02/13/17
02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:53:53 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



Quantitation Report (Qedit)

(b) (6)

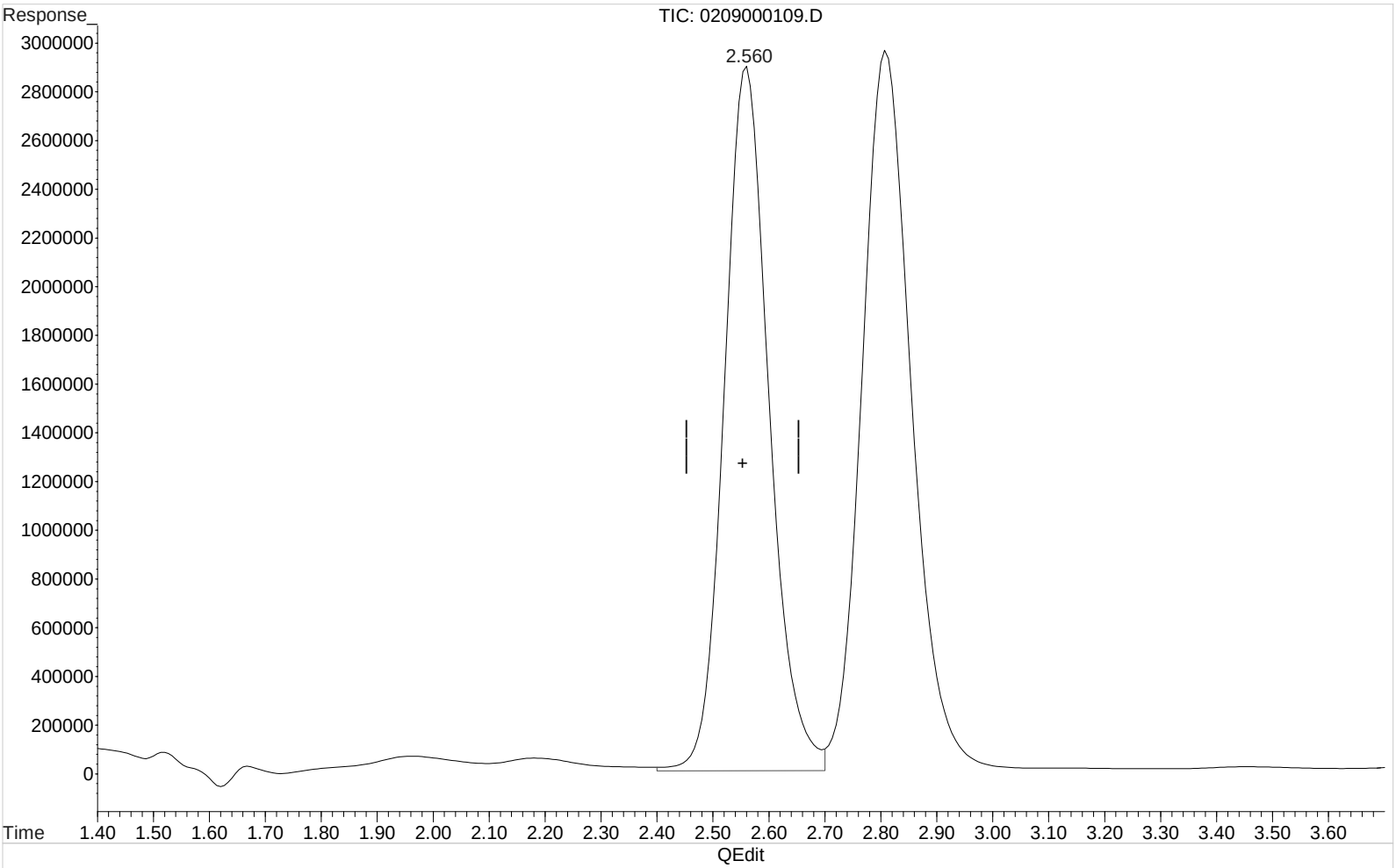
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:45:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.560min 1035.968 ug/L

response 16129417

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b) (6)

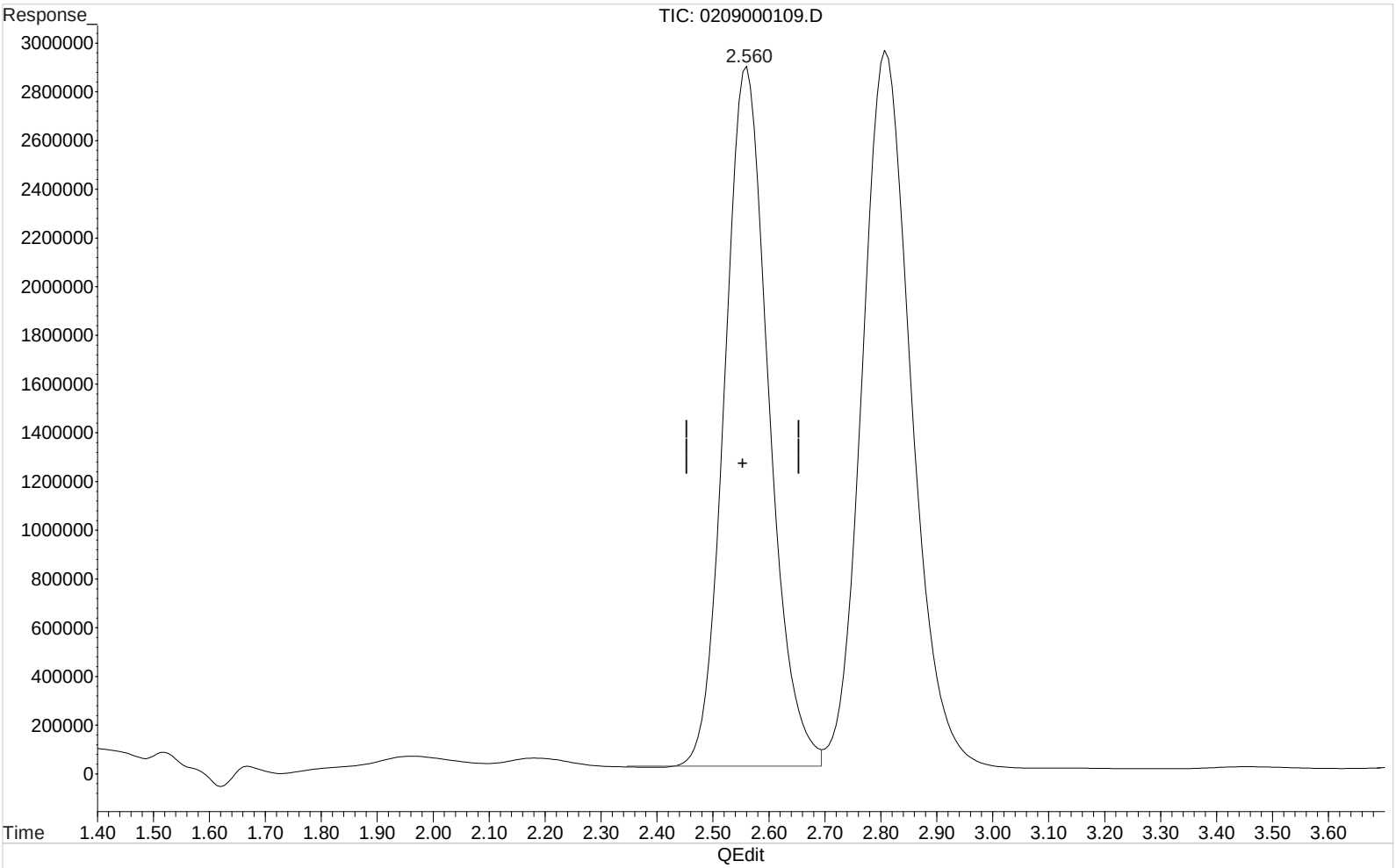
1 02/13/17

2 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:45:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(1) HMX (T)

2.560min 1011.865 ug/L m

response 15754141

Manual Integration:

After

BLC

02/13/17

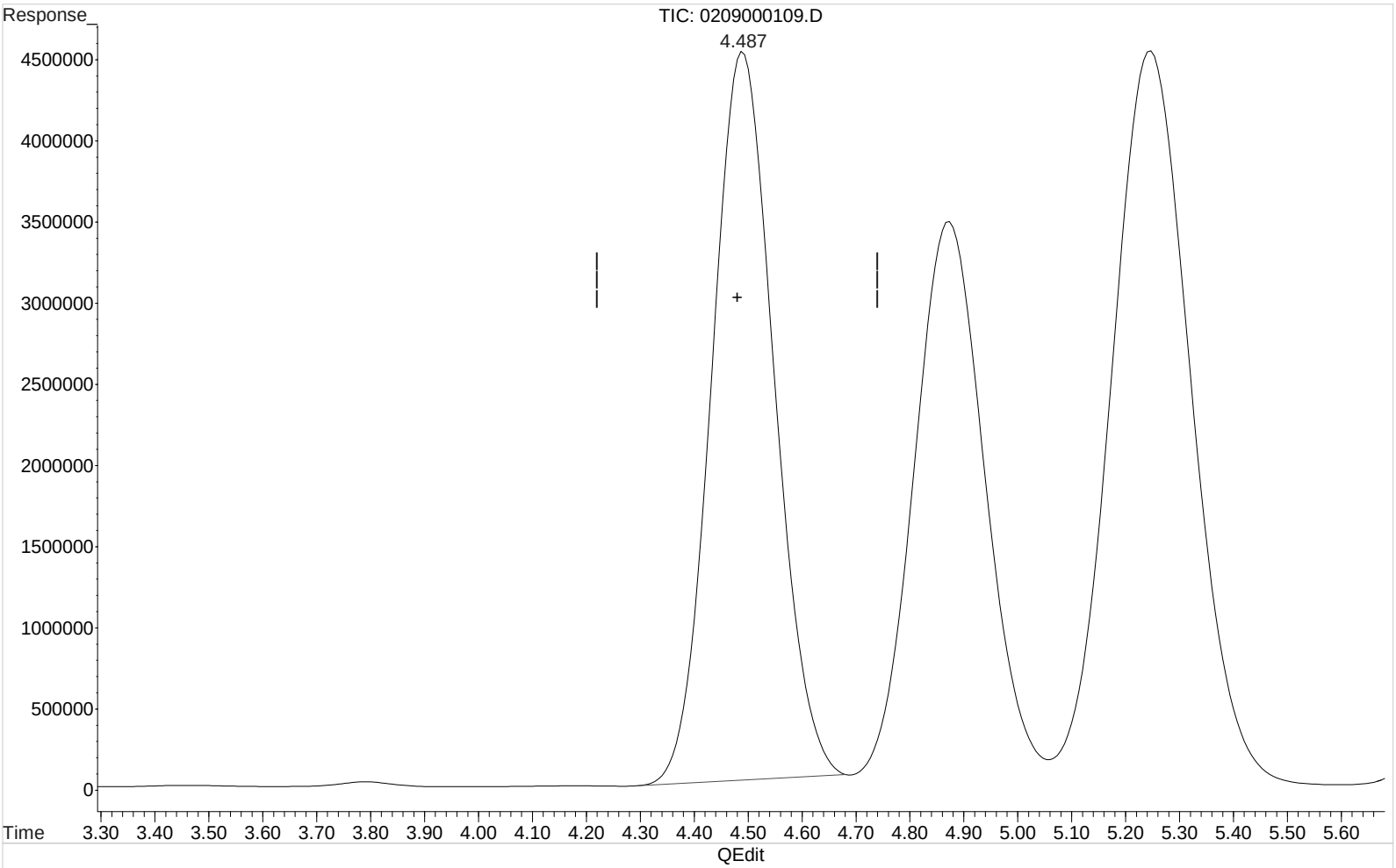
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:45:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 987.330 ug/L

response 36350884

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

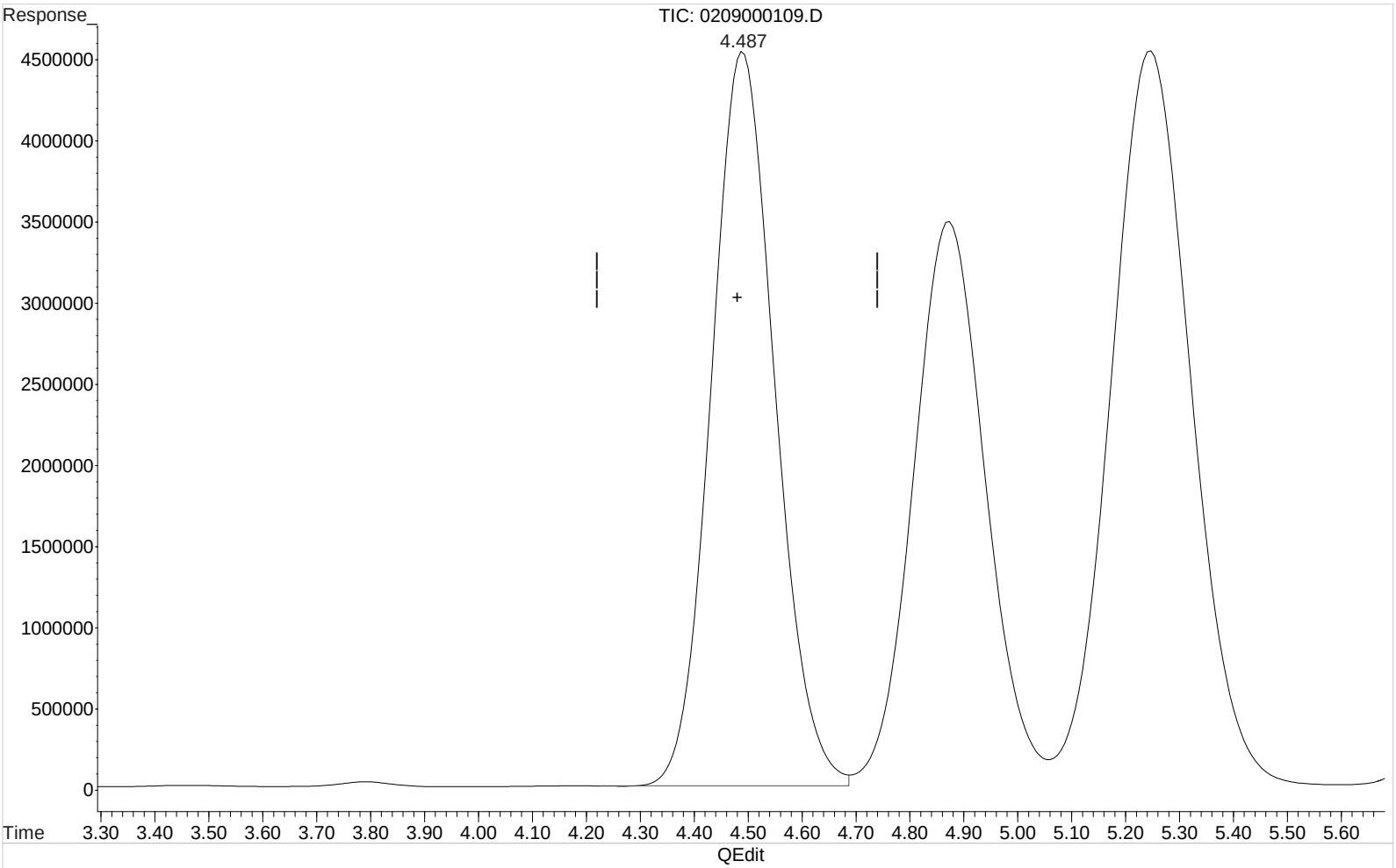
1st 02/13/17

2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:45:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 1009.140 ug/L m

response 37153839

Manual Integration:

After

BLC

02/13/17

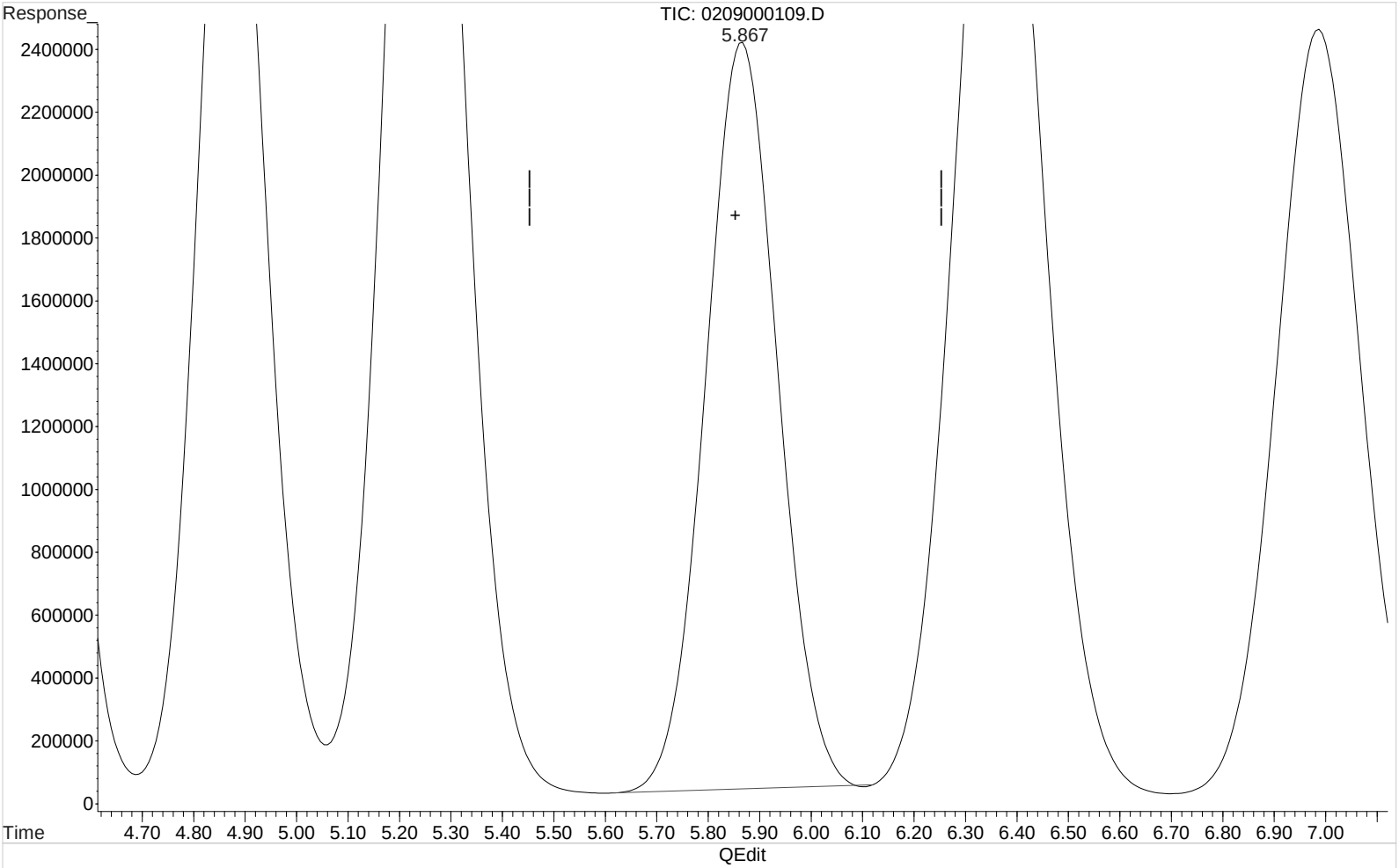
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:45:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.867min 987.309 ug/L

response 23211771

Manual Integration:

Before

02/13/17

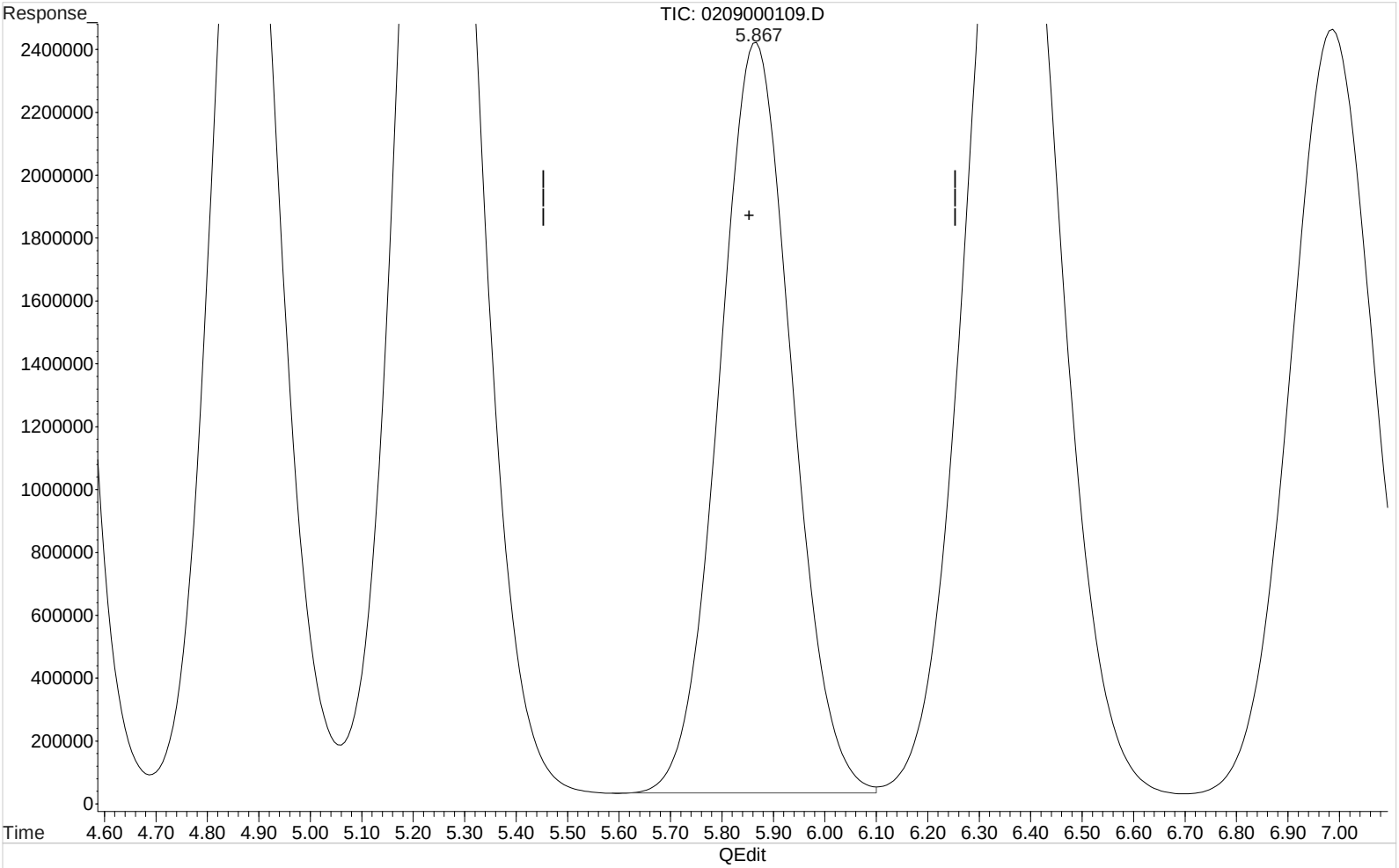
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:53:53 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.867min 1002.211 ug/L m

response 23562112

Manual Integration:

After

BLC

02/13/17

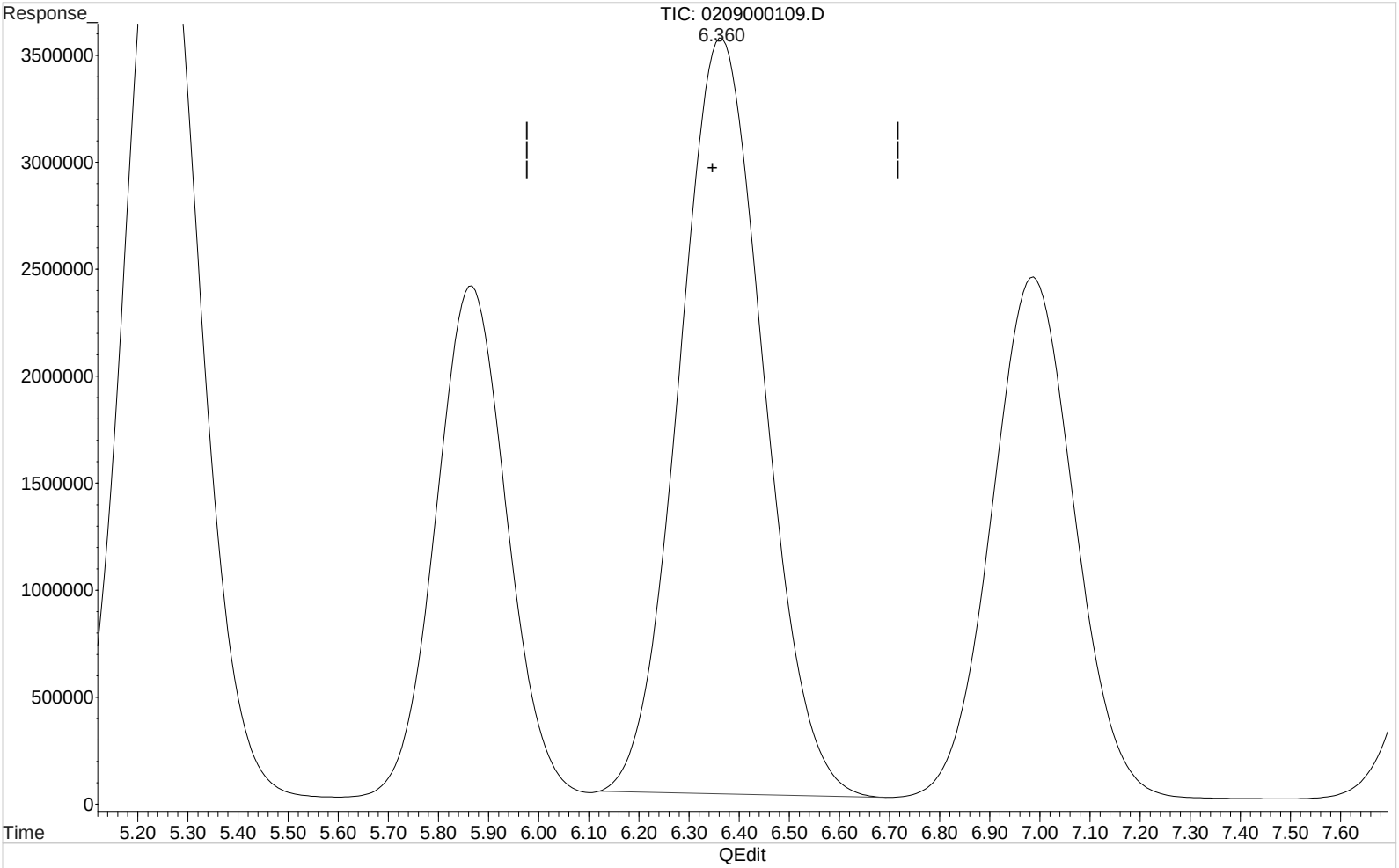
(+) = Expected Retention Time

(b) (6)
1st 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:45:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(7) 2-Amino-4,6-DNT (T)

6.360min 1006.729 ug/L

response 41585985

Manual Integration:

Before

02/13/17

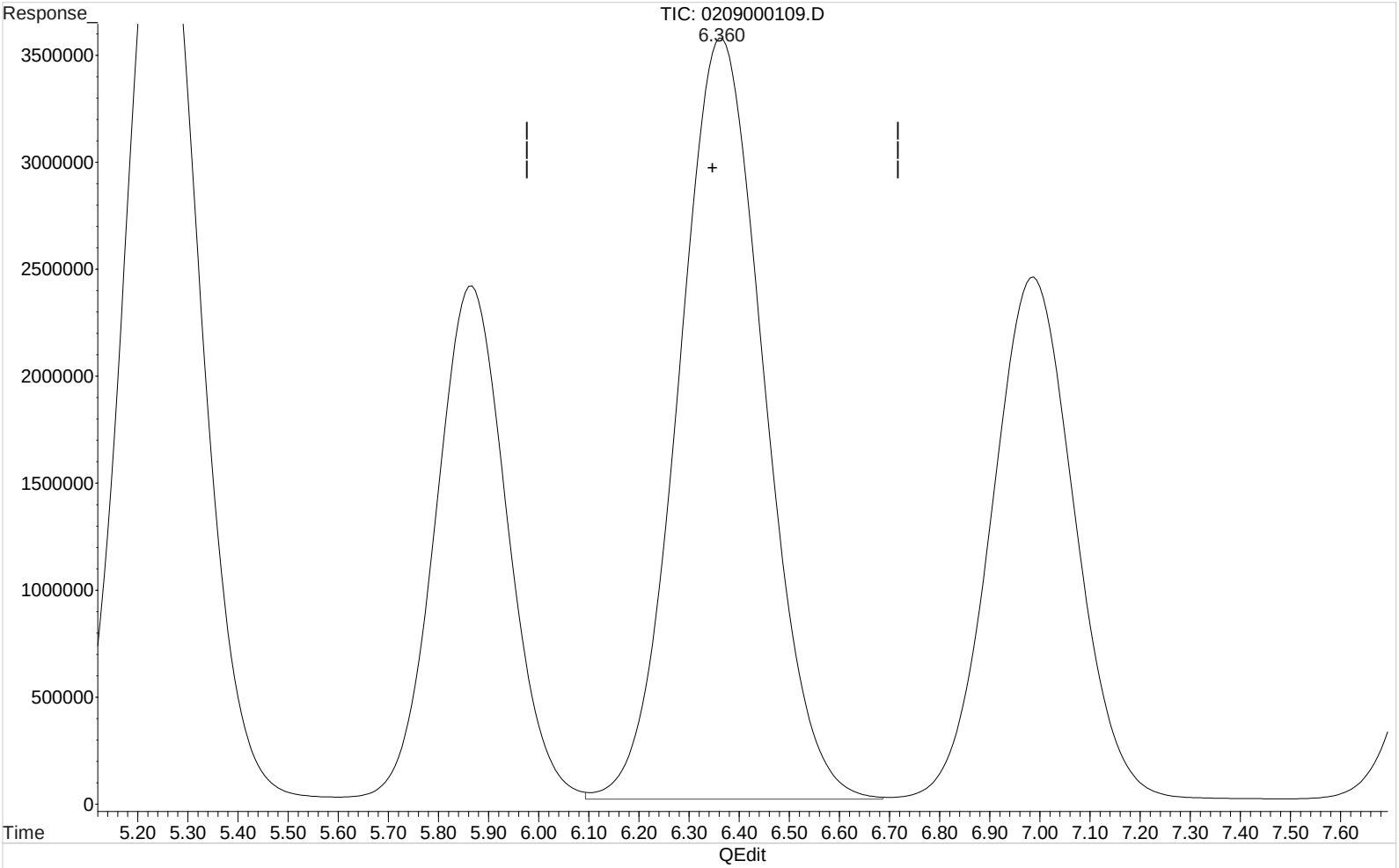
(+) = Expected Retention Time

(b) (6)
1st [redacted] 02/13/17
2n [redacted] 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:45:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(7) 2-Amino-4,6-DNT (T)

6.360min 1025.978 ug/L m

response 42381135

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:32:55 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds							
11)	S	1-Chloro-3-Nitrobenzene	8.140	53161422	2036.459	ug/L	
Target Compounds							
1)	T	HMX	2.553	31311485	2014.814	ug/L	m
2)	T	RDX	2.800	35554384	2015.185	ug/L	
3)	T	Nitrobenzene	4.487	73843312	2007.562	ug/L	m
4)	T	3,5-Dinitroaniline	5.247	92210324	2013.888	ug/L	
5)	T	4-Amino-2,6-DNT	4.873	62907414	2016.533	ug/L	
6)	T	2-NT	5.867	46778486	1986.311	ug/L	m
7)	T	2-Amino-4,6-DNT	6.367	83175566	2018.100	ug/L	m
8)	T	3-NT	6.987	55760509	2020.510	ug/L	m
9)	T	1,3-DNB	9.133	109641297	2001.567	ug/L	
10)	T	4-NT	7.853	45953635	2043.136	ug/L	m
12)	T	2,6-DNT	8.820	49007058	2027.122	ug/L	
13)	T	2,4-DNT	14.807	100936143	2009.326	ug/L	
14)	T	Tetryl	12.993	55778584	1870.117	ug/L	
15)	T	1,3,5-TNB	19.800	81579082	2002.423	ug/L	
16)	T	2,4,6-TNT	20.787	76817979	2005.253	ug/L	

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

(b)(6)

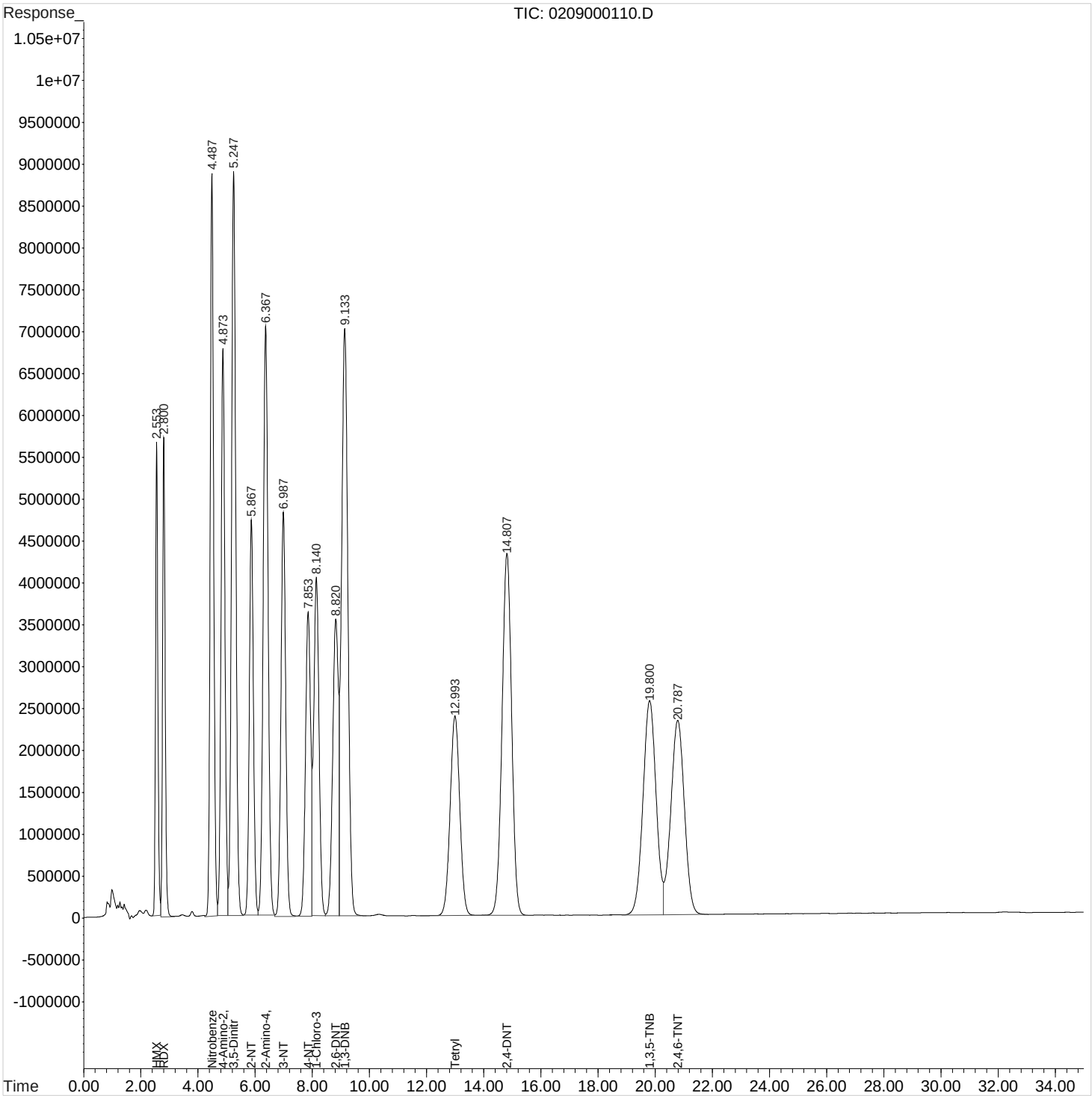
1st 02/13/17

2n 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:32:55 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

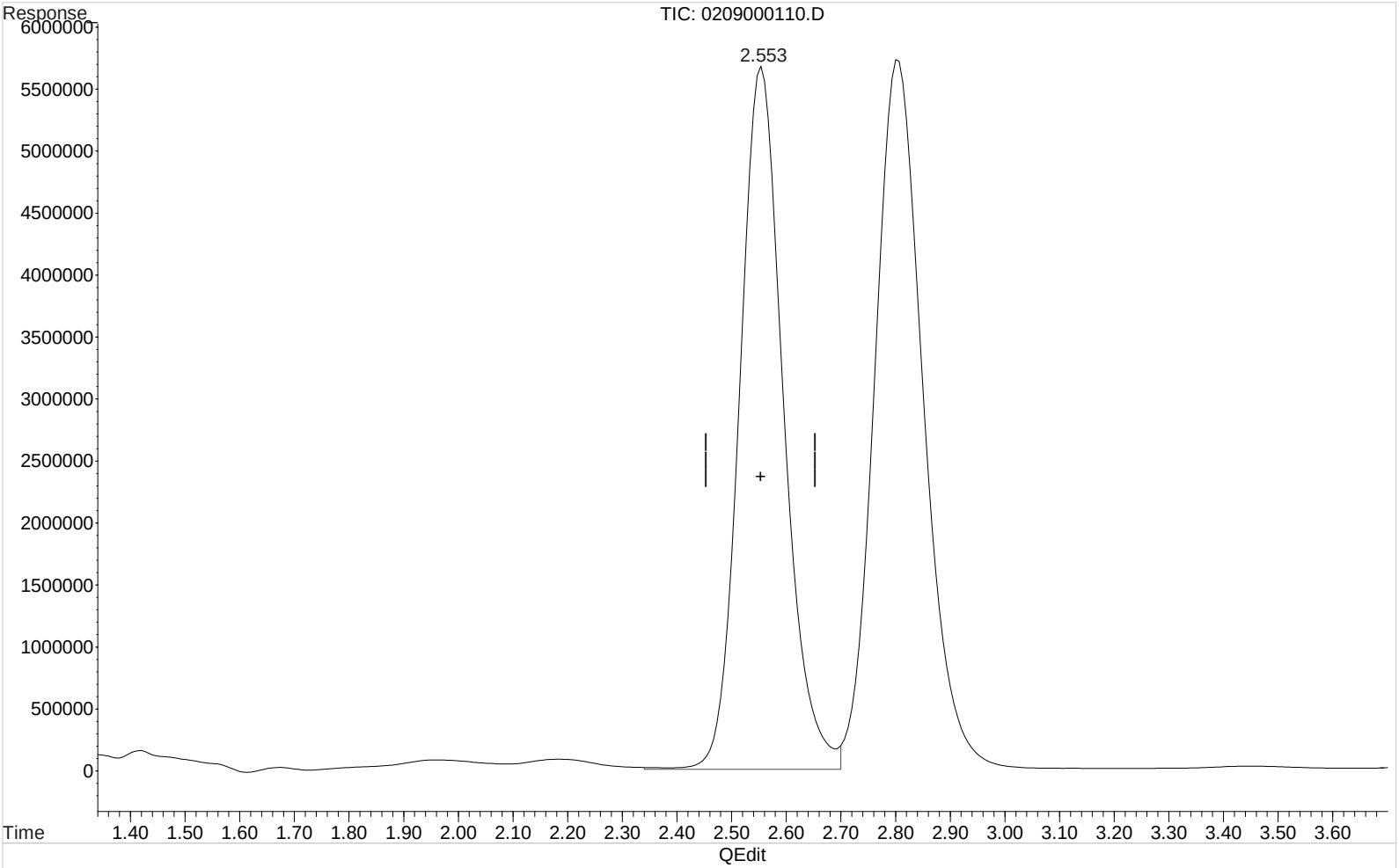


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(1) HMX (T)

2.553min 2039.049 ug/L

response 31688113

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b) (6)

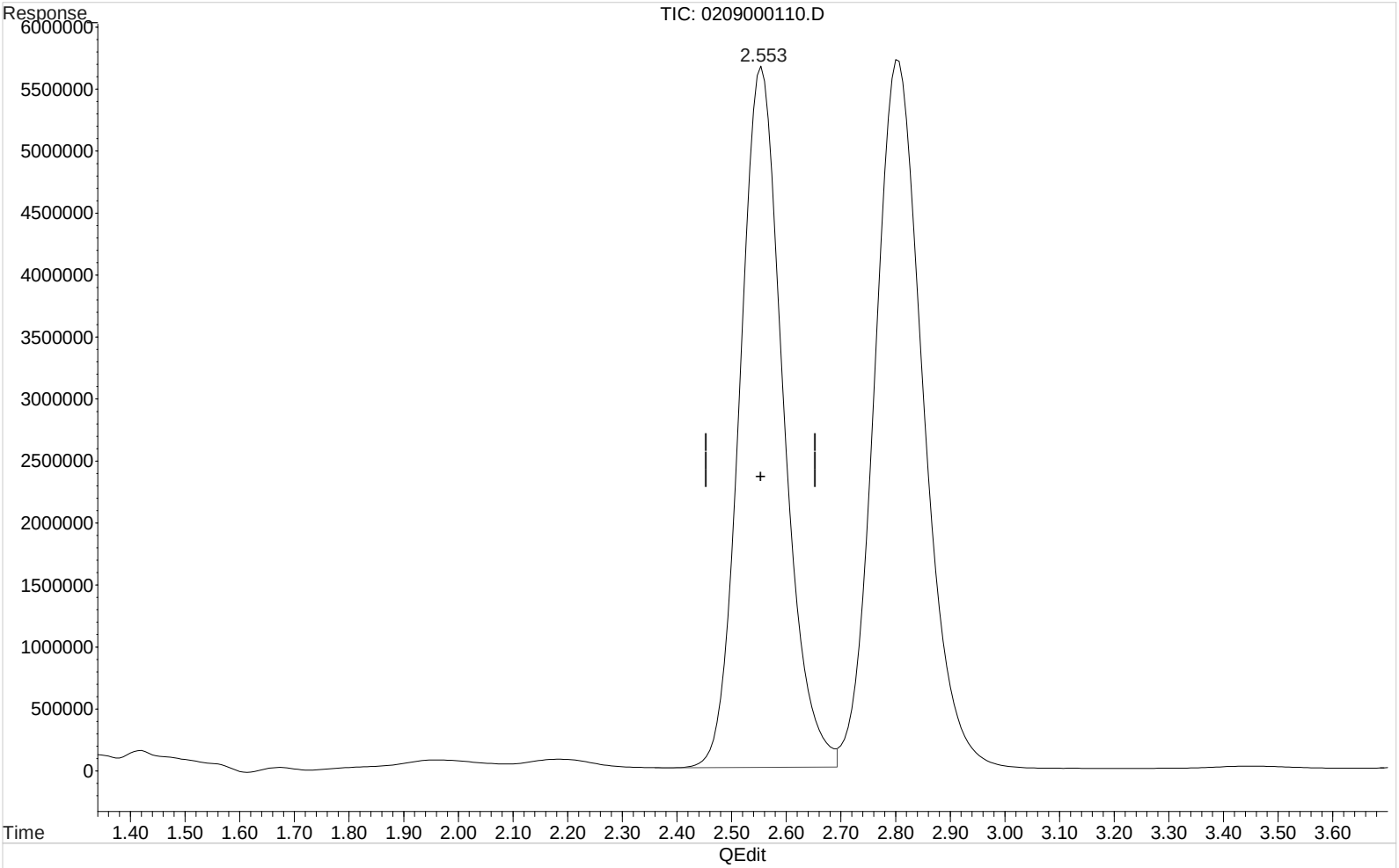
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(1) HMX (T)

2.553min 2014.814 ug/L m

response 31311485

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

(b) (6)

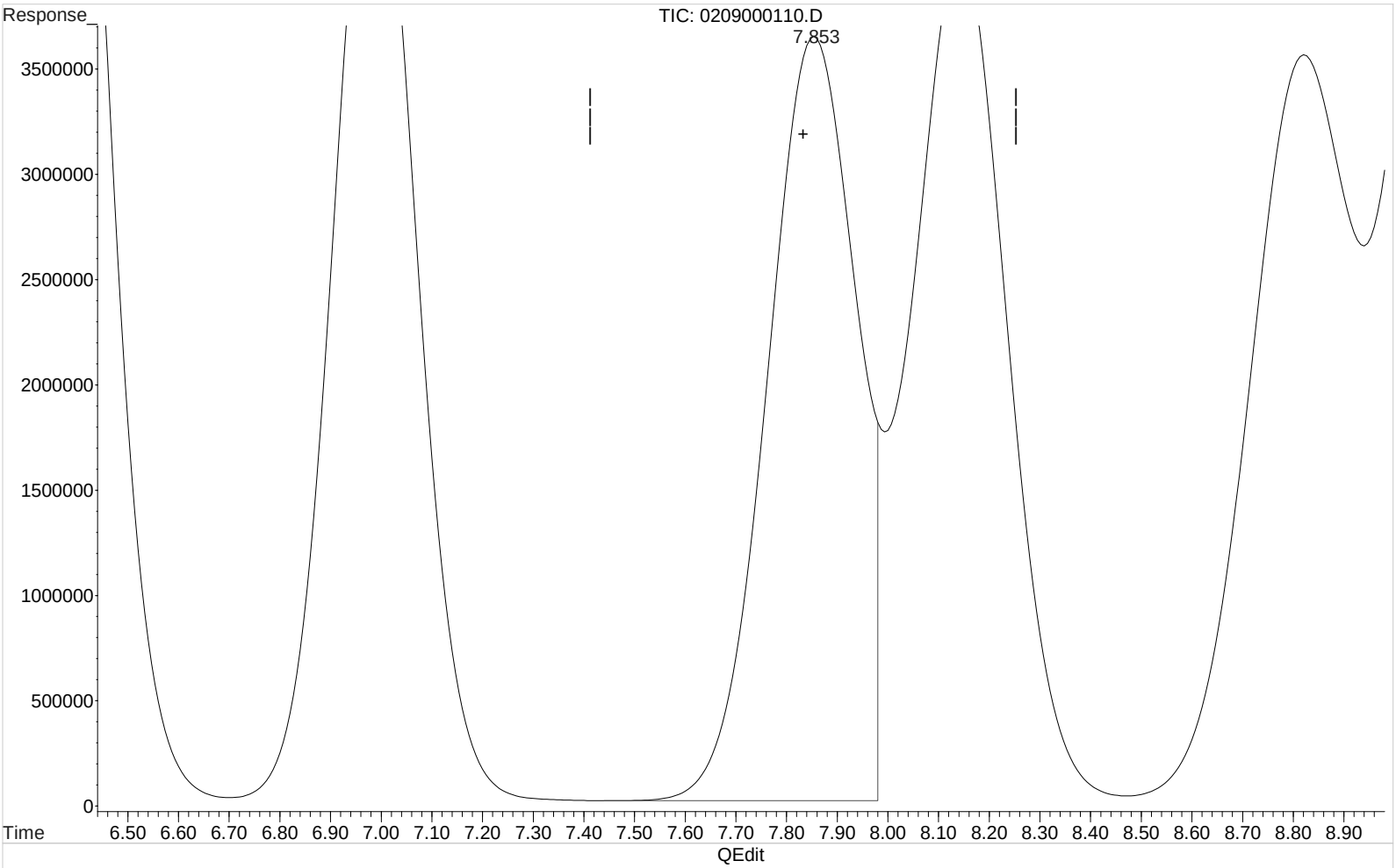
2/13/17

2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.853min 1977.033 ug/L

response 44466866

Manual Integration:

Before

02/13/17

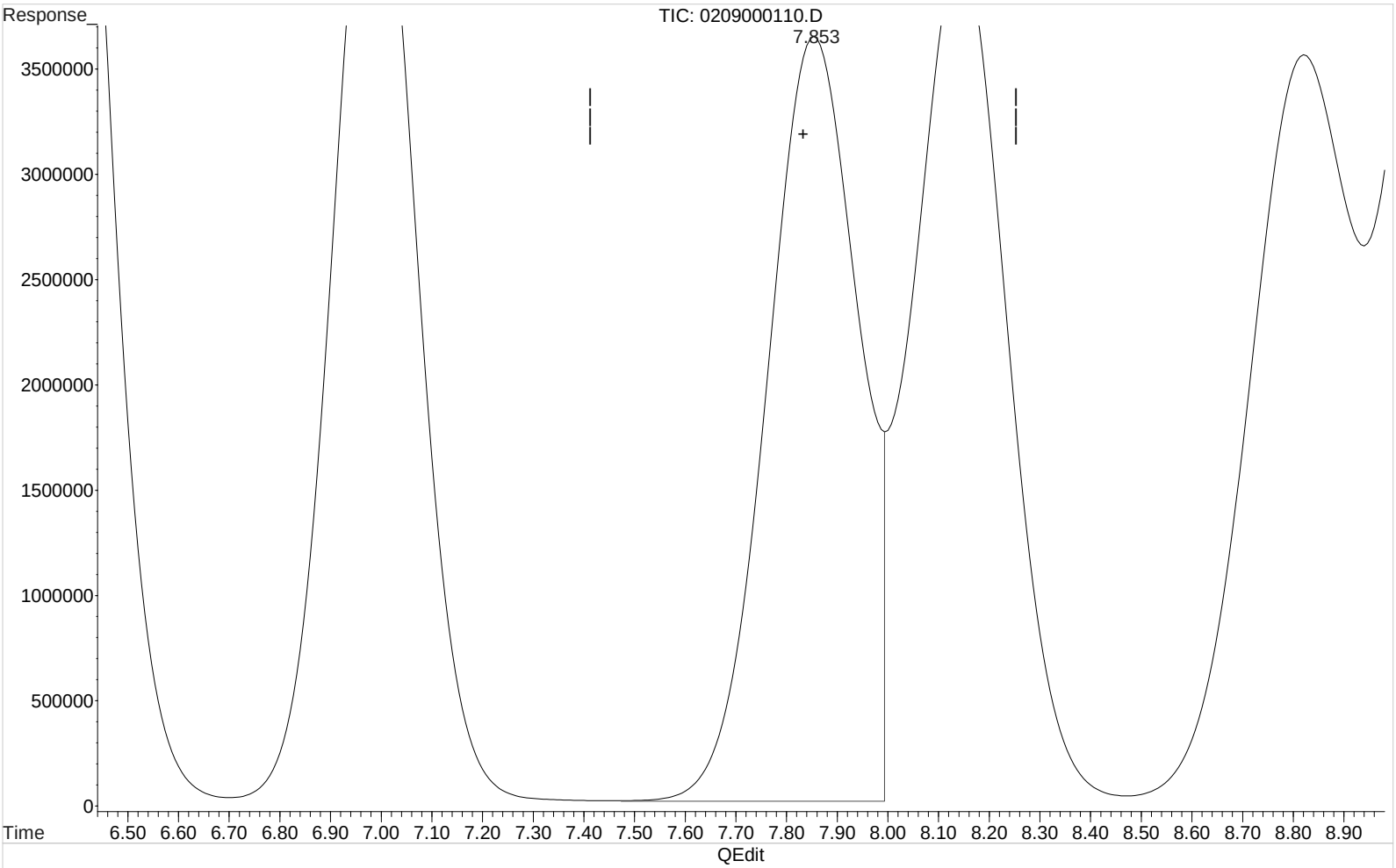
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.853min 2043.136 ug/L m

response 45953635

Manual Integration:

After

BLC

02/13/17

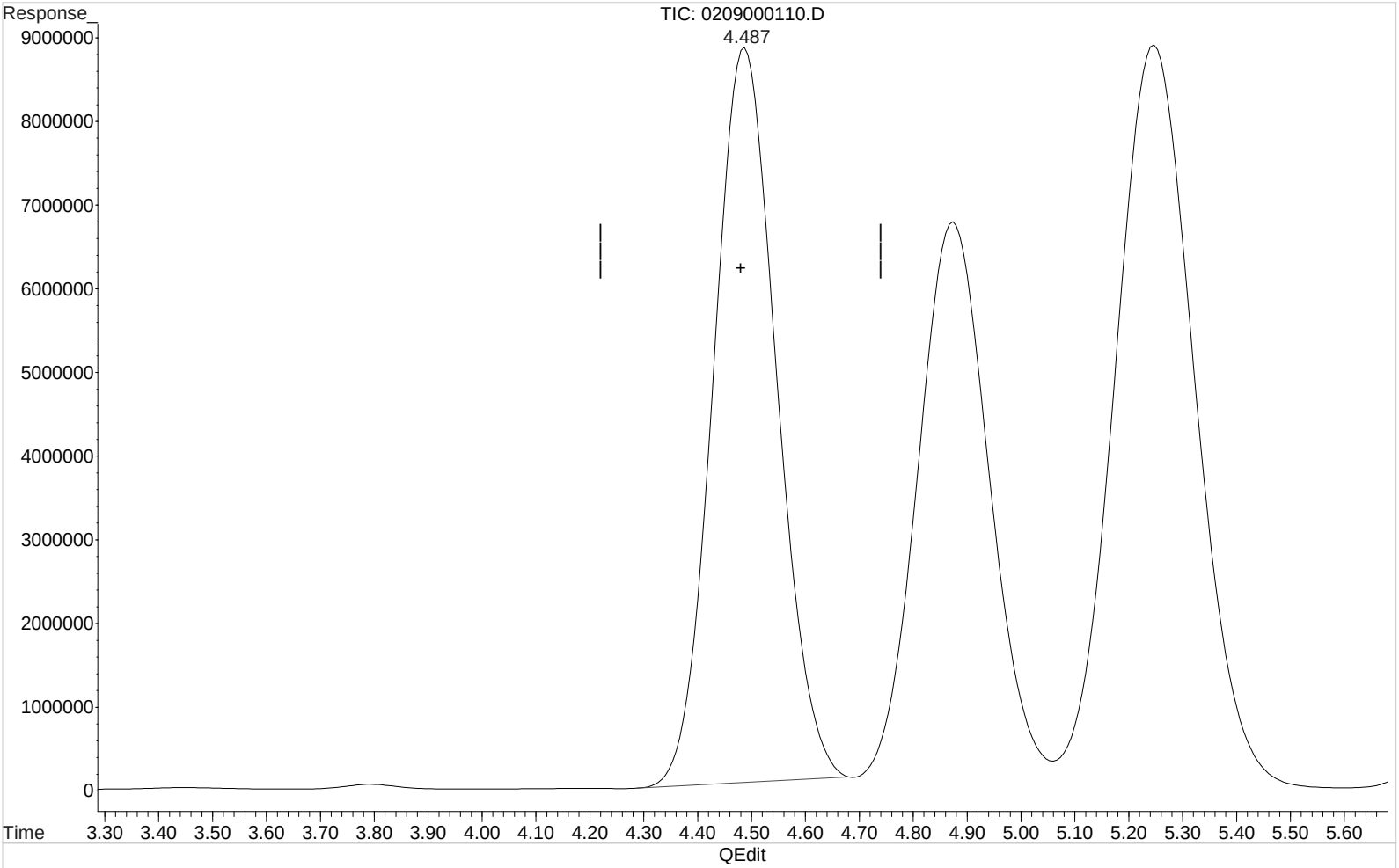
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 1955.136 ug/L

response 71914932

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

(b) (6)

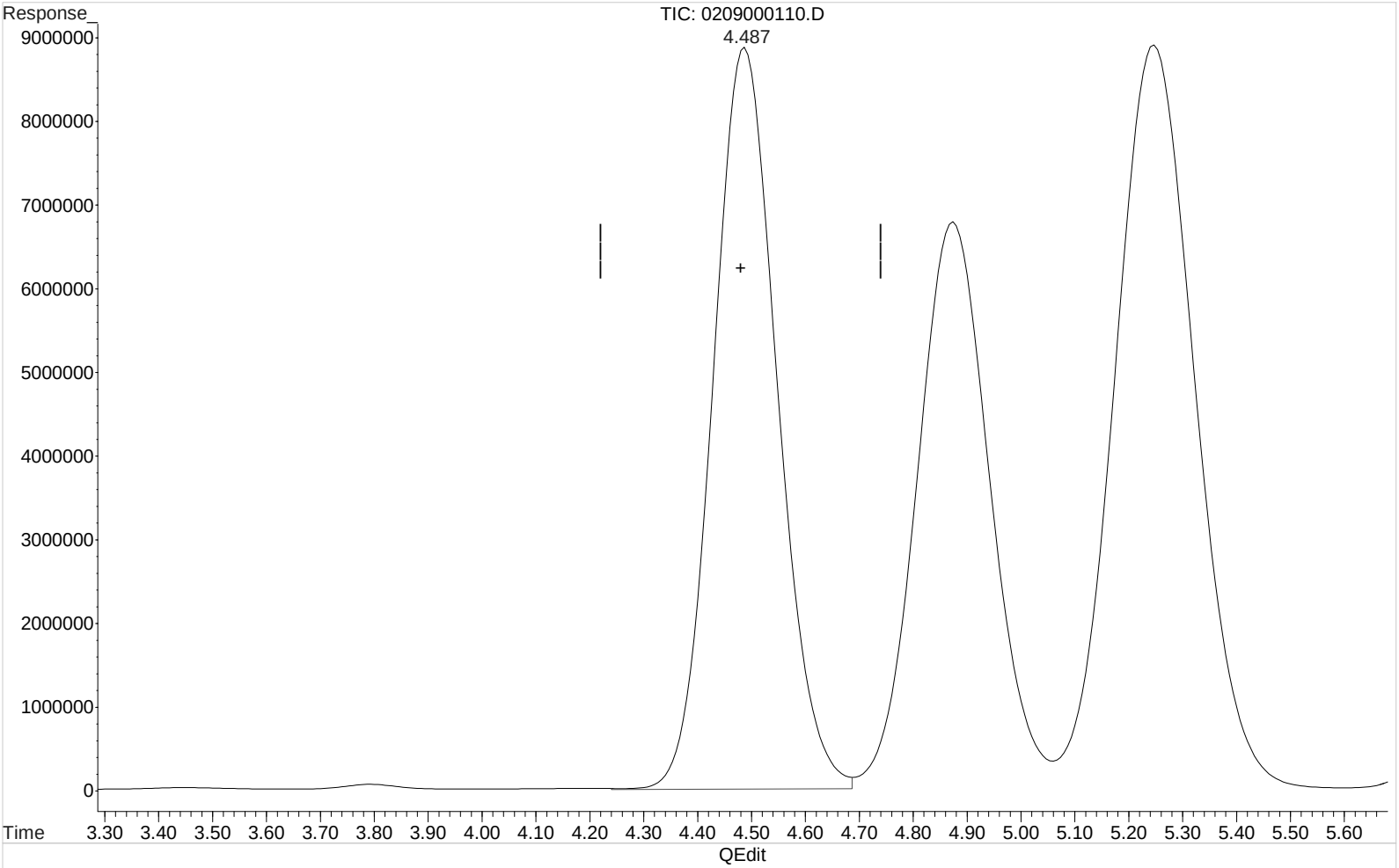
2/13/17

2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 2007.562 ug/L m

response 73843312

Manual Integration:

After

BLC

02/13/17

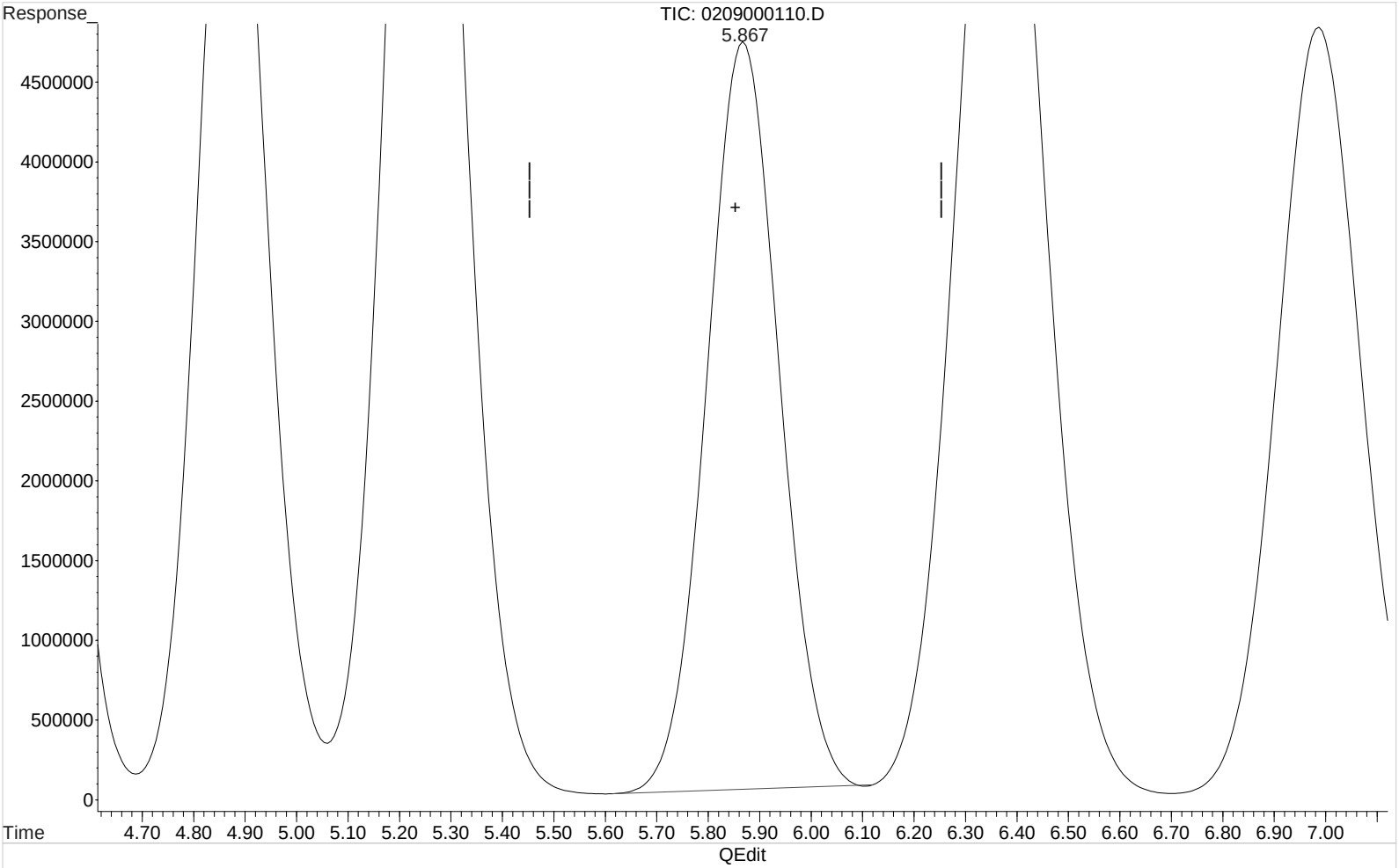
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.867min 1951.261 ug/L

response 45953051

Manual Integration:

Before

02/13/17

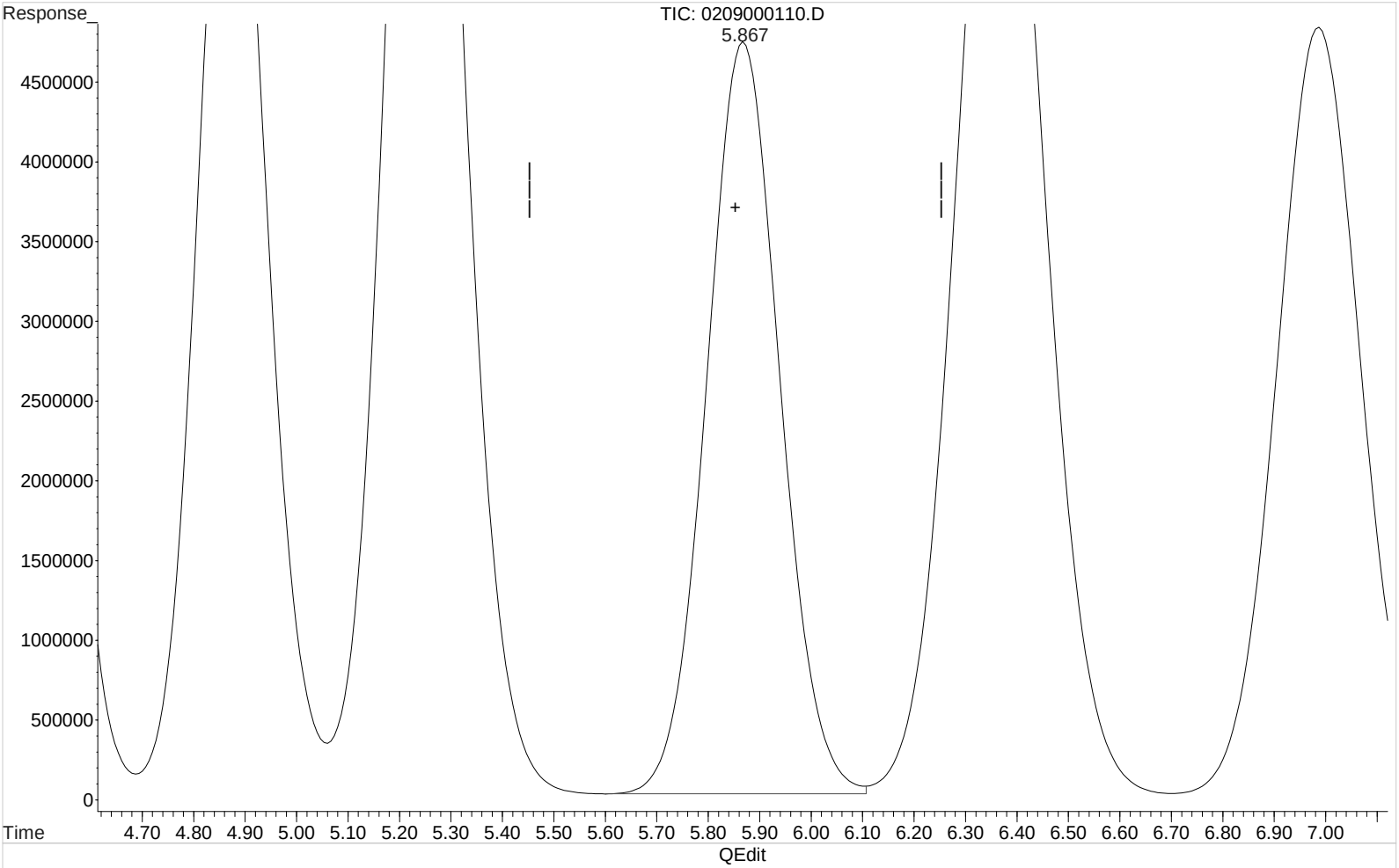
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.867min 1986.311 ug/L m

response 46778486

Manual Integration:

After

BLC

02/13/17

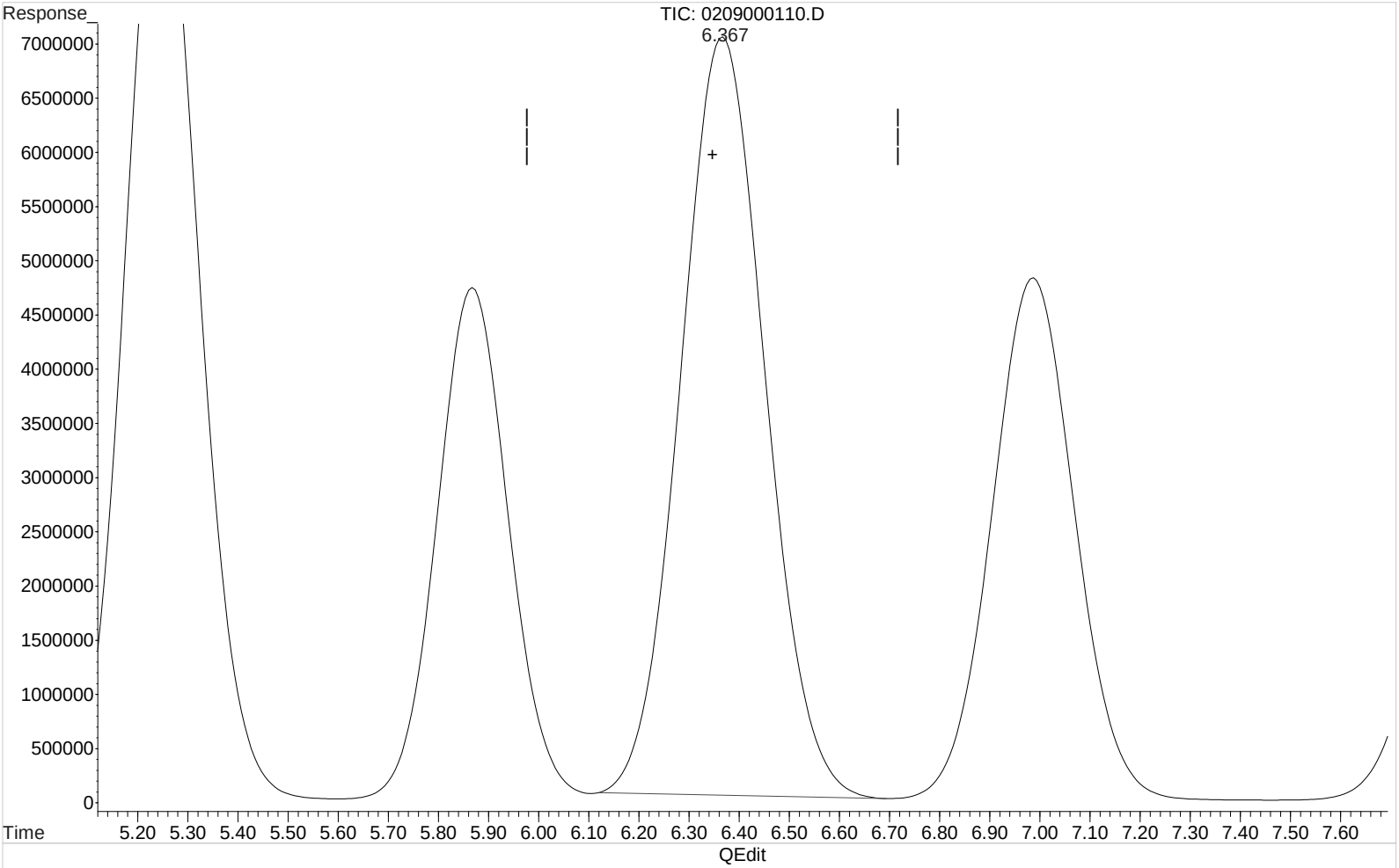
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.367min 1990.374 ug/L

response 82032832

Manual Integration:

Before

02/13/17

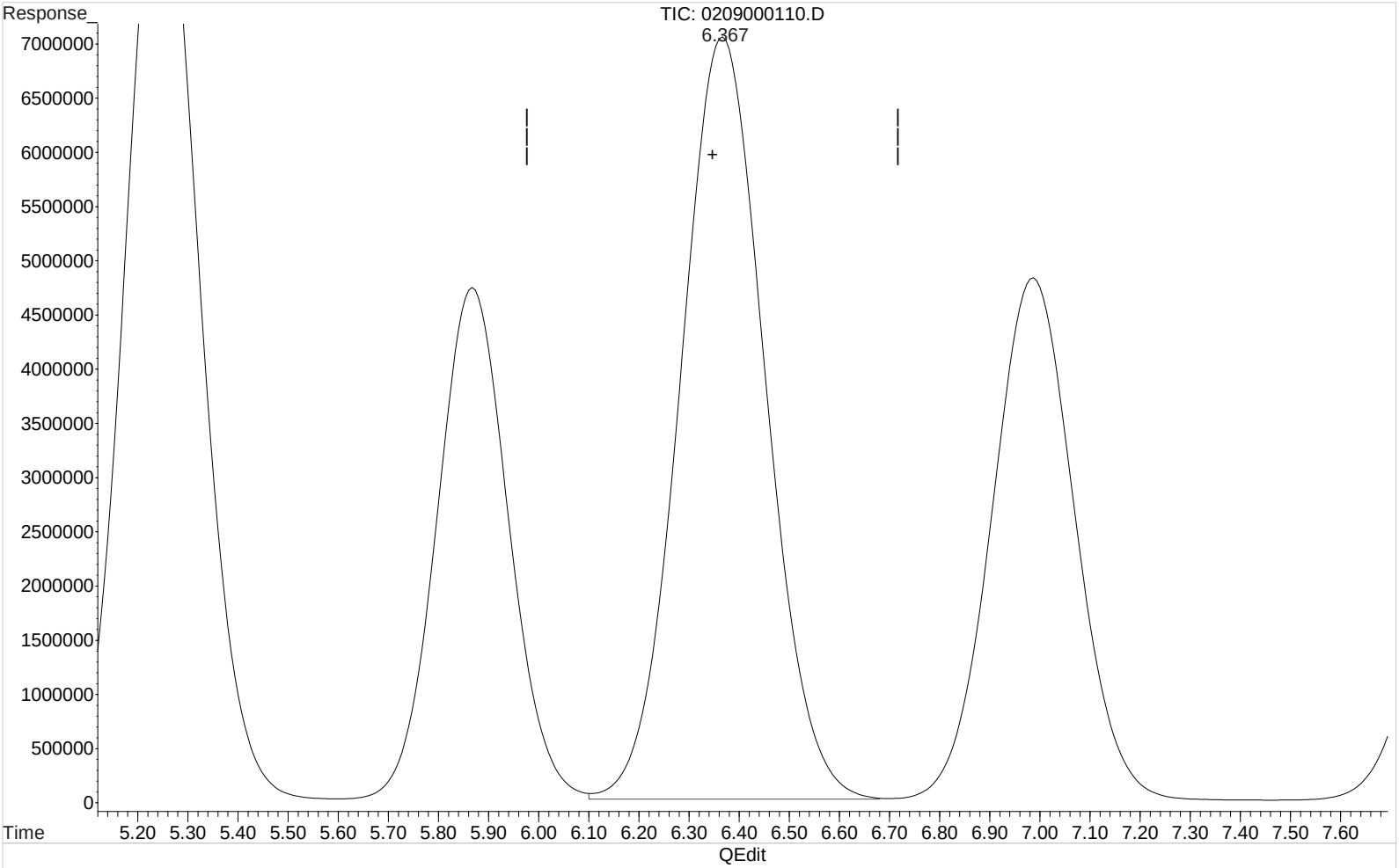
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.367min 2018.100 ug/L m

response 83175566

Manual Integration:

After

BLC

02/13/17

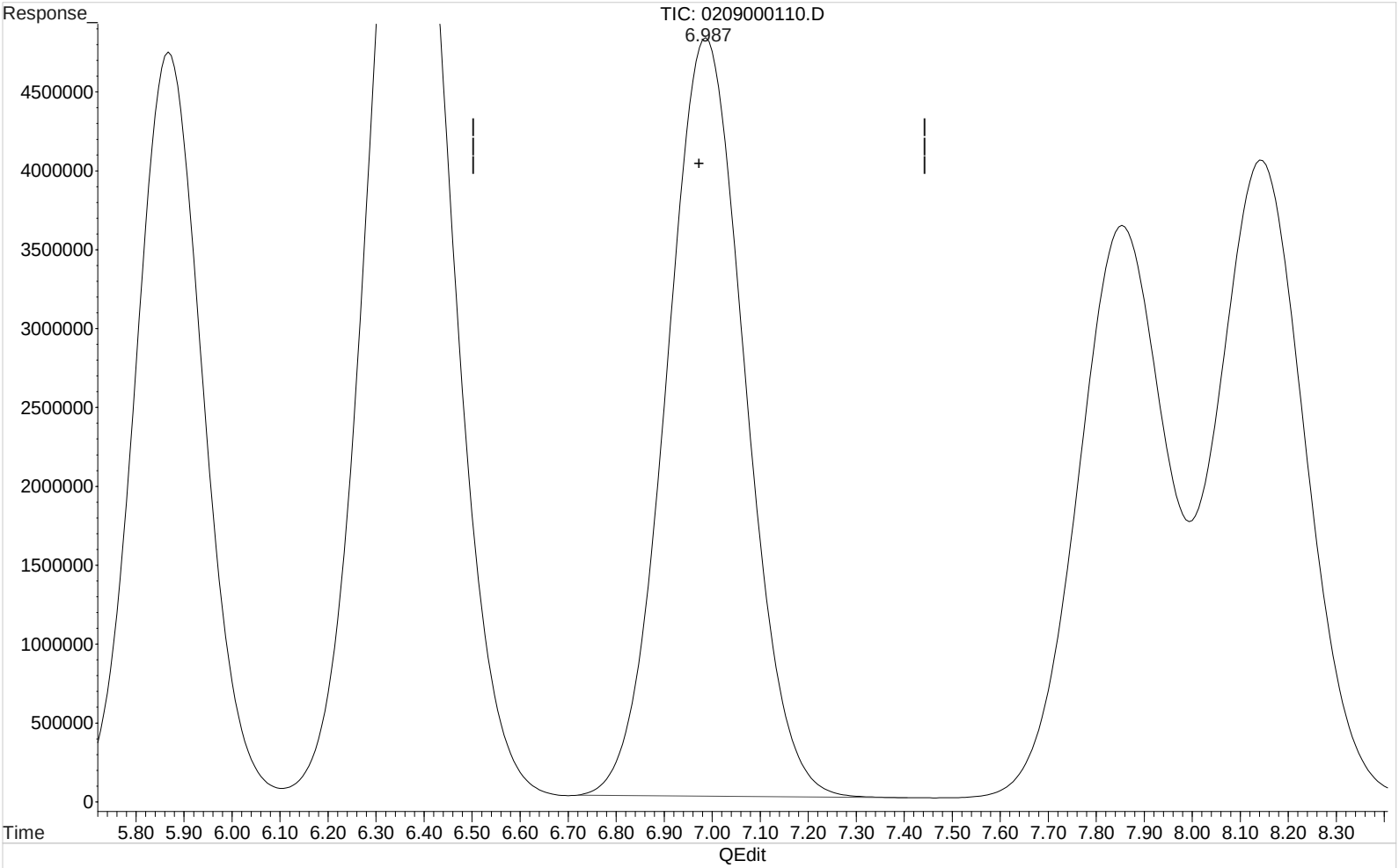
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(8) 3-NT (T)

6.987min 1994.277 ug/L

response 55036545

Manual Integration:

Before

02/13/17

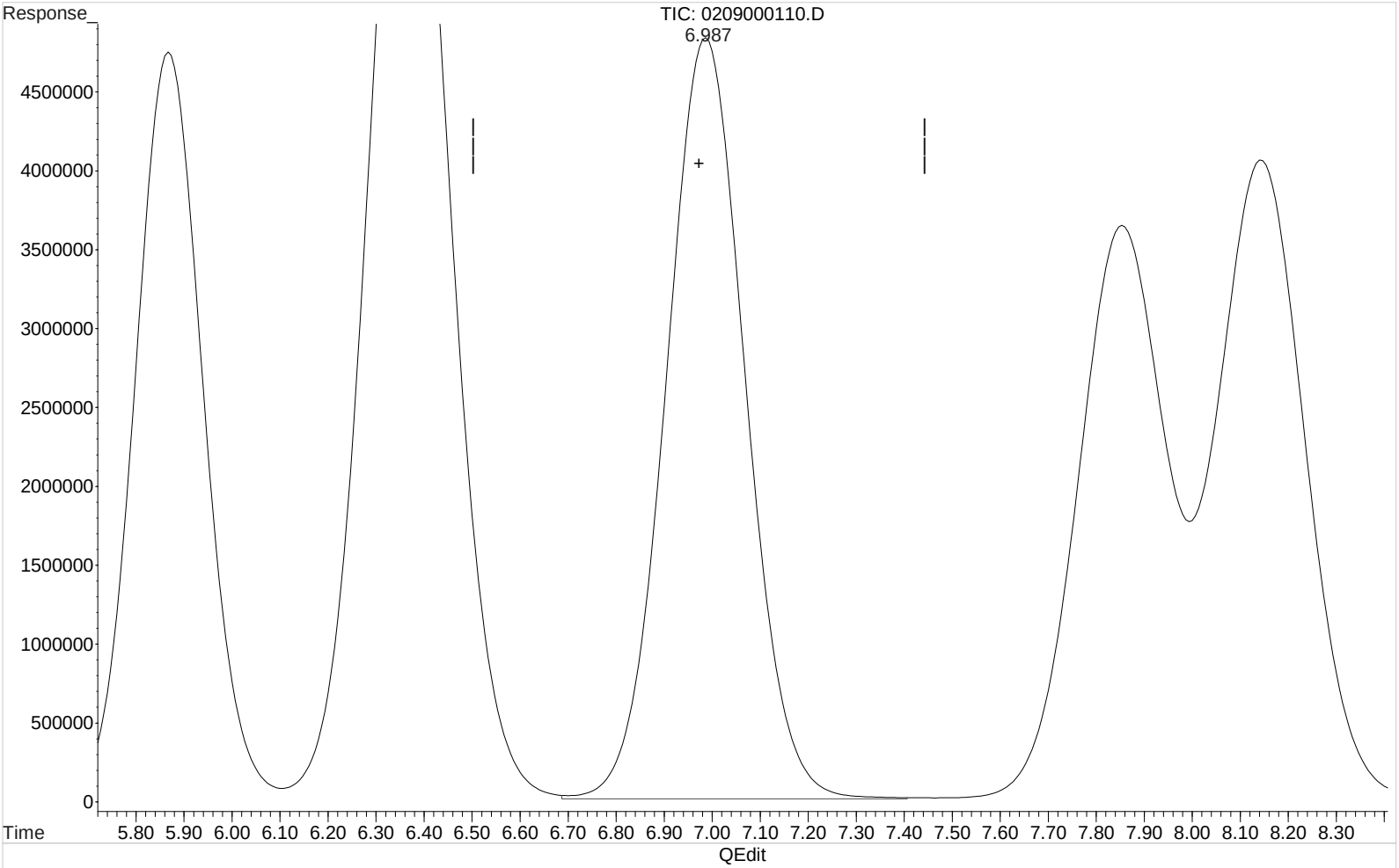
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(8) 3-NT (T)

6.987min 2020.510 ug/L m

response 55760509

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:28:34 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:17:26 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
11)	S	1-Chloro-3-Nitrobenzene	8.147	134147712	5211.143	ug/L	
		Target Compounds					
1)	T	HMX	2.553	79282682	5154.023	ug/L	
2)	T	RDX	2.800	89521974	5111.845	ug/L	
3)	T	Nitrobenzene	4.487	185665109	5071.799	ug/L	m
4)	T	3,5-Dinitroaniline	5.247	231796987	5094.312	ug/L	
5)	T	4-Amino-2,6-DNT	4.873	157685856	5082.517	ug/L	
6)	T	2-NT	5.867	118315059	5035.938	ug/L	m
7)	T	2-Amino-4,6-DNT	6.367	208559971	5091.027	ug/L	m
8)	T	3-NT	6.987	138478990	5026.831	ug/L	
9)	T	1,3-DNB	9.140	276098652	5060.762	ug/L	
10)	T	4-NT	7.853	111473856	4934.615	ug/L	
12)	T	2,6-DNT	8.820	122414021	5095.886	ug/L	
13)	T	2,4-DNT	14.813	253409776	5067.205	ug/L	
14)	T	Tetryl	13.007	146489426	4868.306	ug/L	
15)	T	1,3,5-TNB	19.813	205131325	5052.852	ug/L	
16)	T	2,4,6-TNT	20.807	193626551	5082.074	ug/L	

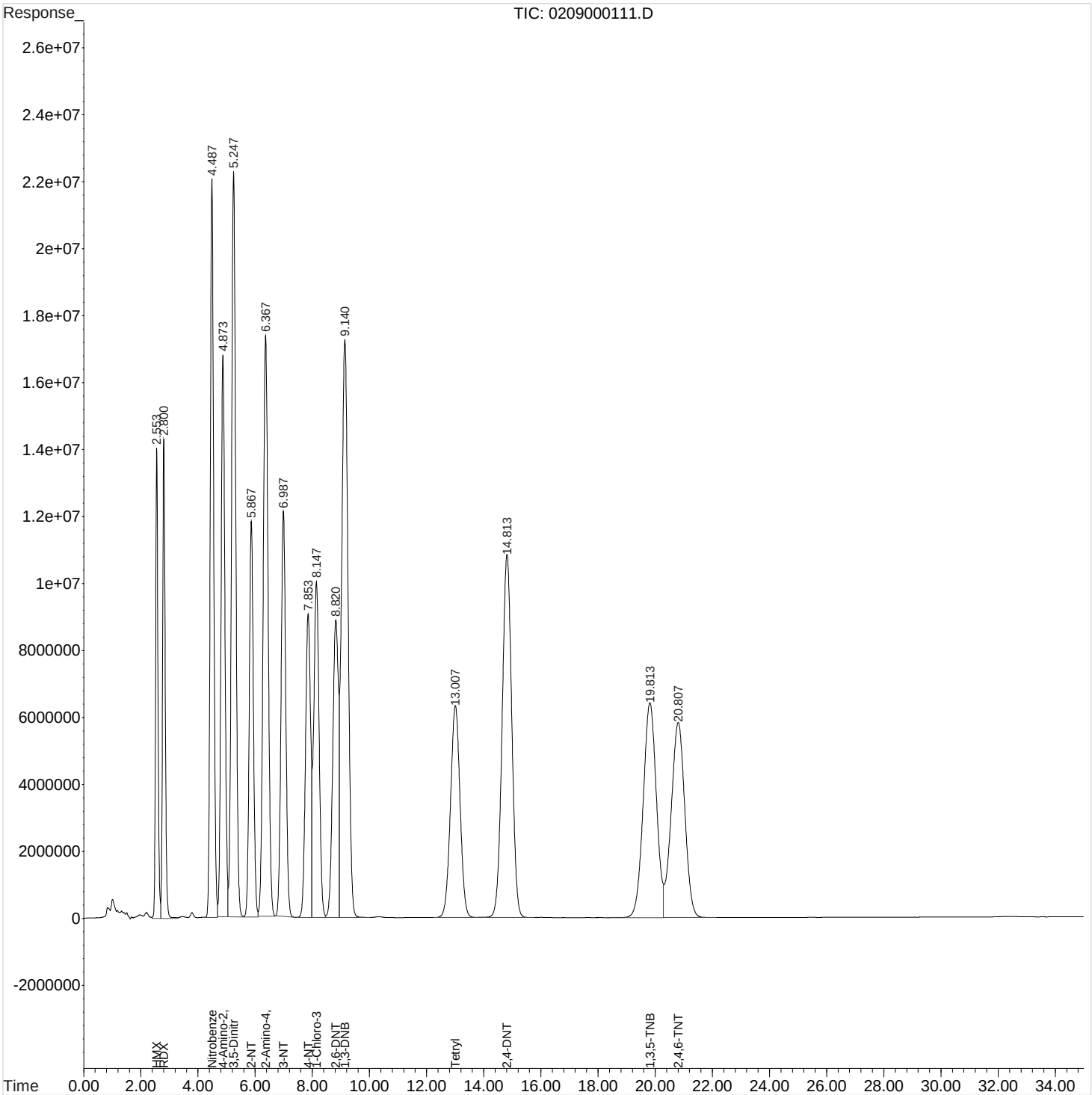
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:28:34 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:17:26 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

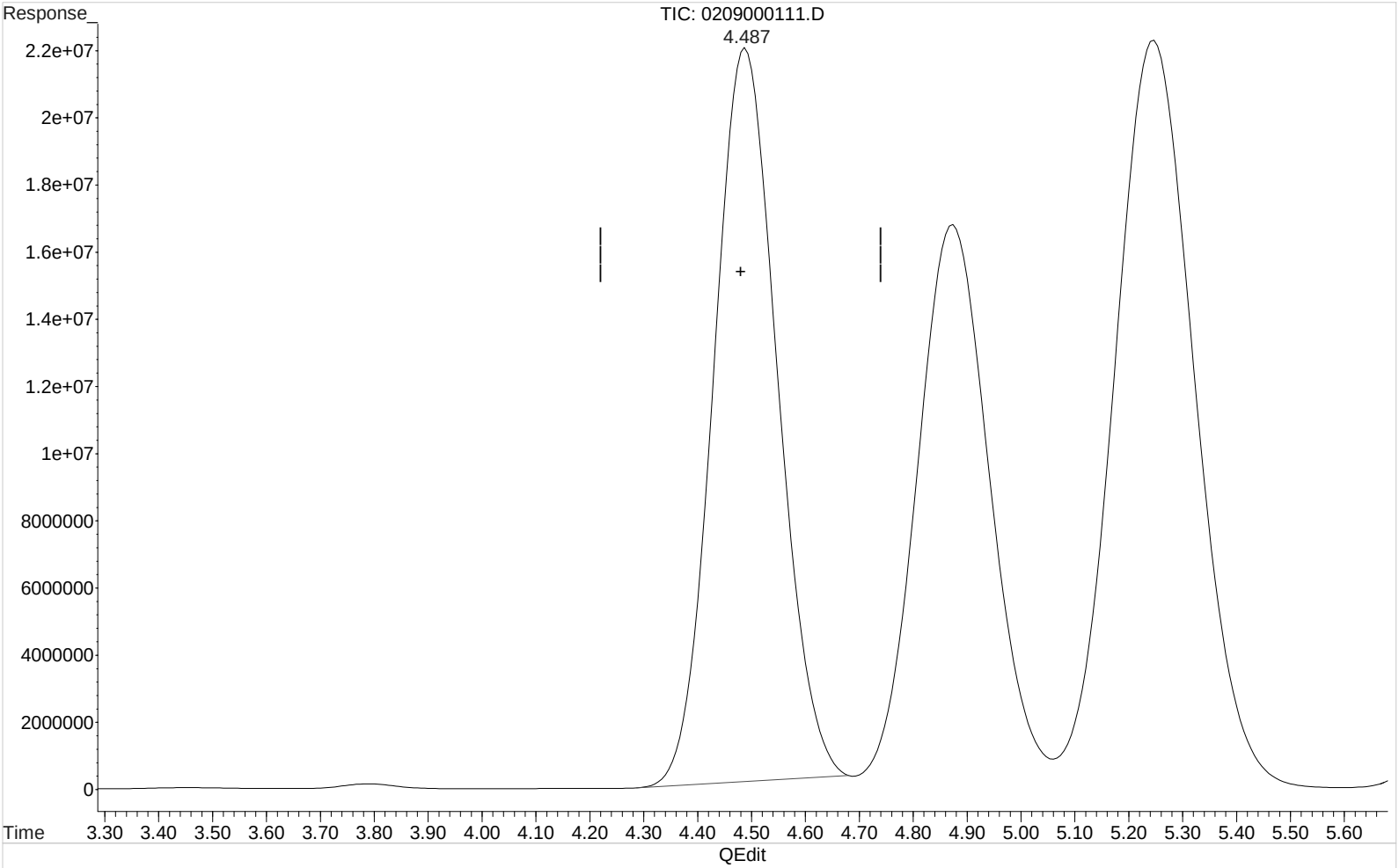


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:26:24 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:17:26 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 4932.834 ug/L

response 180577966

Manual Integration:

Before

02/13/17

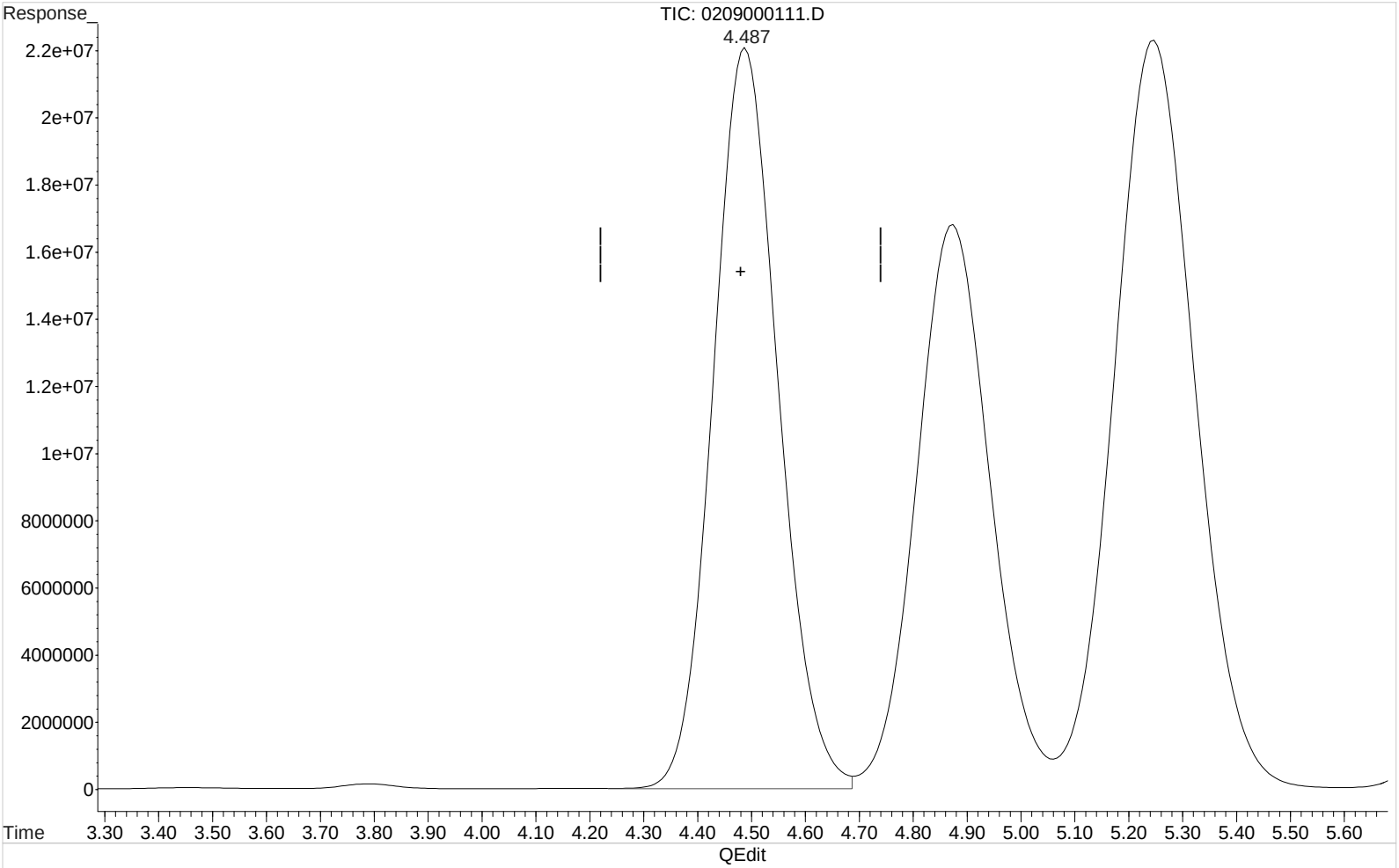
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:26:24 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:17:26 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(3) Nitrobenzene (T)

4.487min 5071.799 ug/L m

response 185665109

Manual Integration:

After

BLC

02/13/17

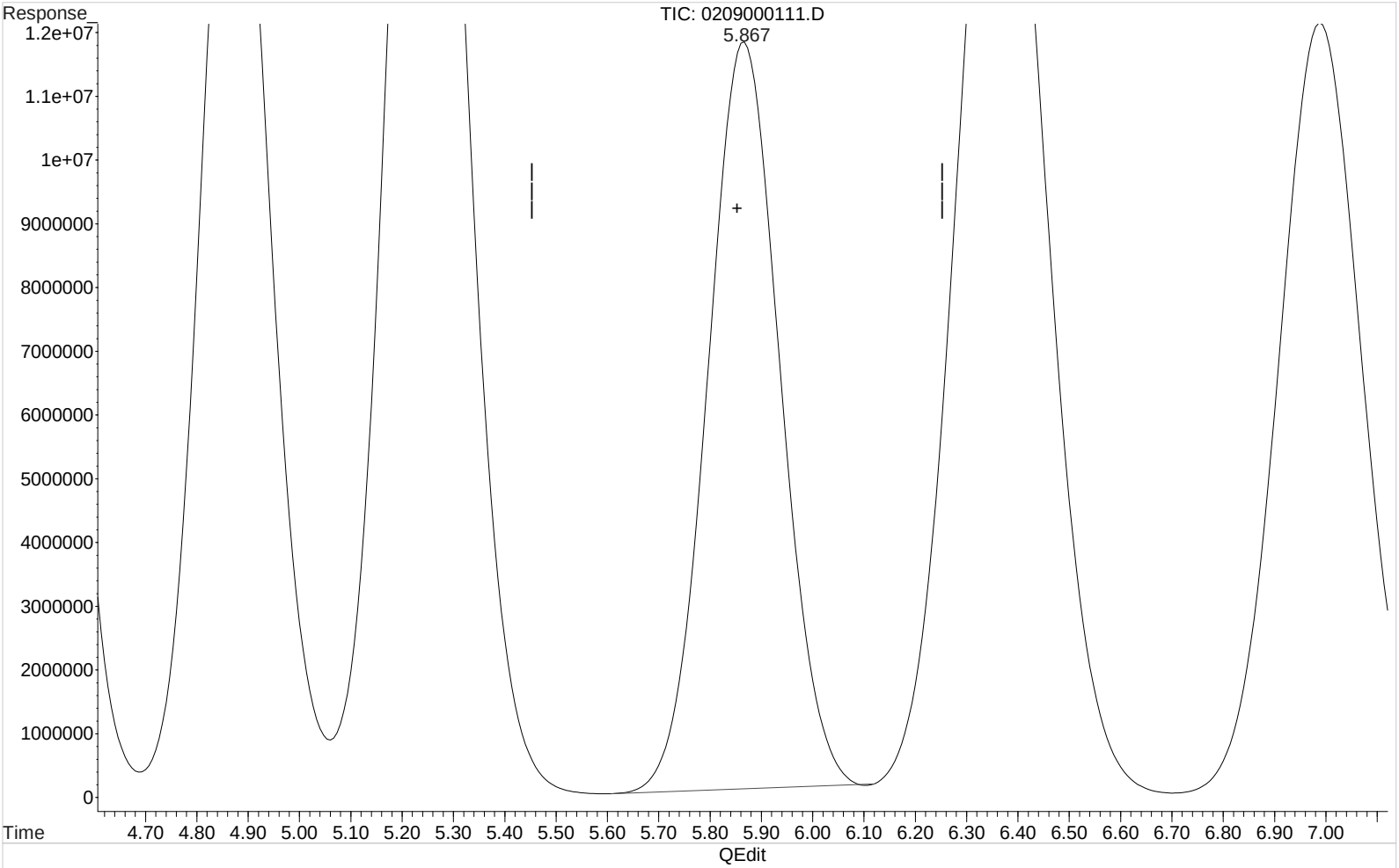
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:26:24 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:17:26 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.867min 4916.930 ug/L

response 115519071

Manual Integration:

Before

02/13/17

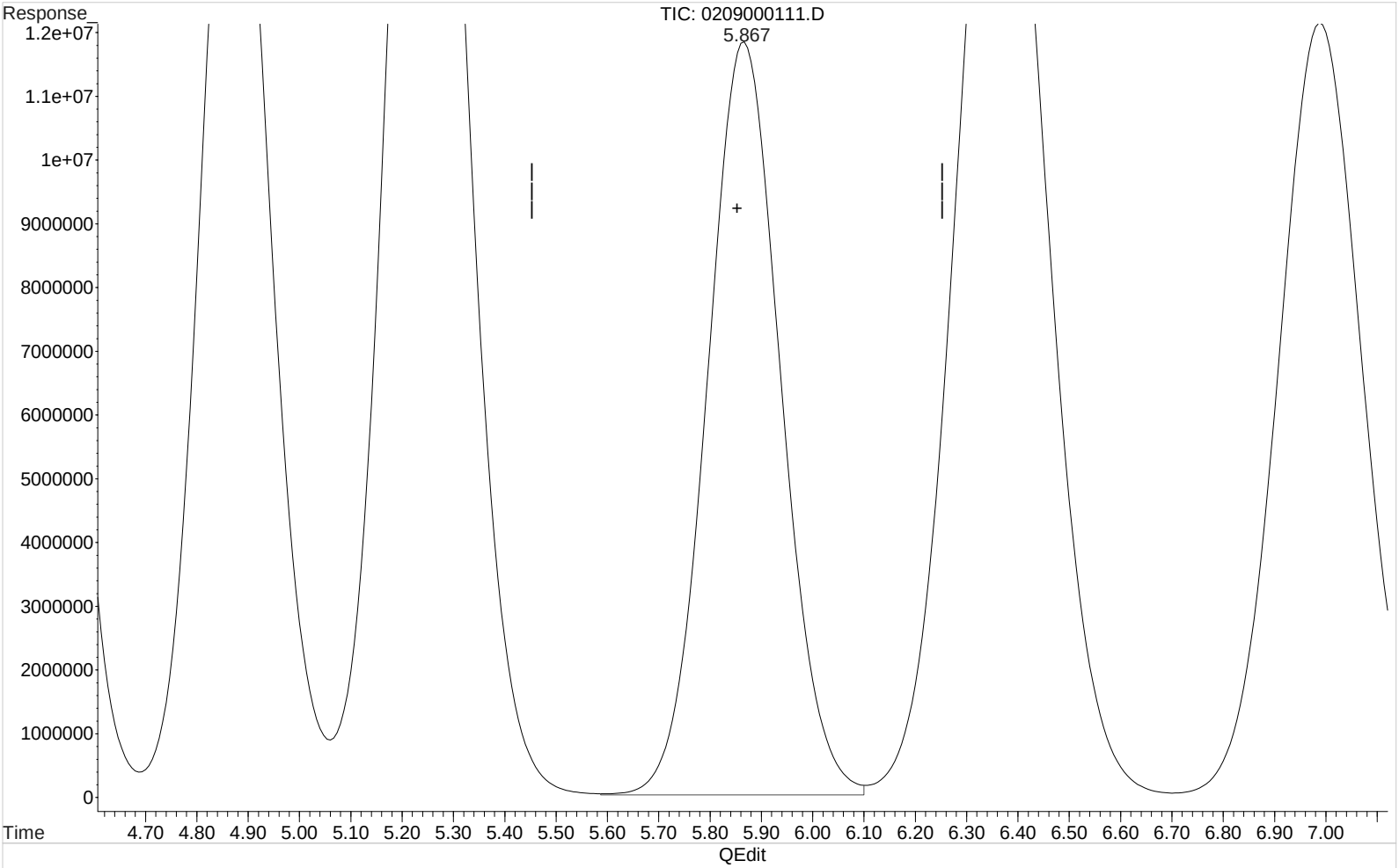
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:26:24 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:17:26 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.867min 5035.938 ug/L m

response 118315059

Manual Integration:

After

BLC

02/13/17

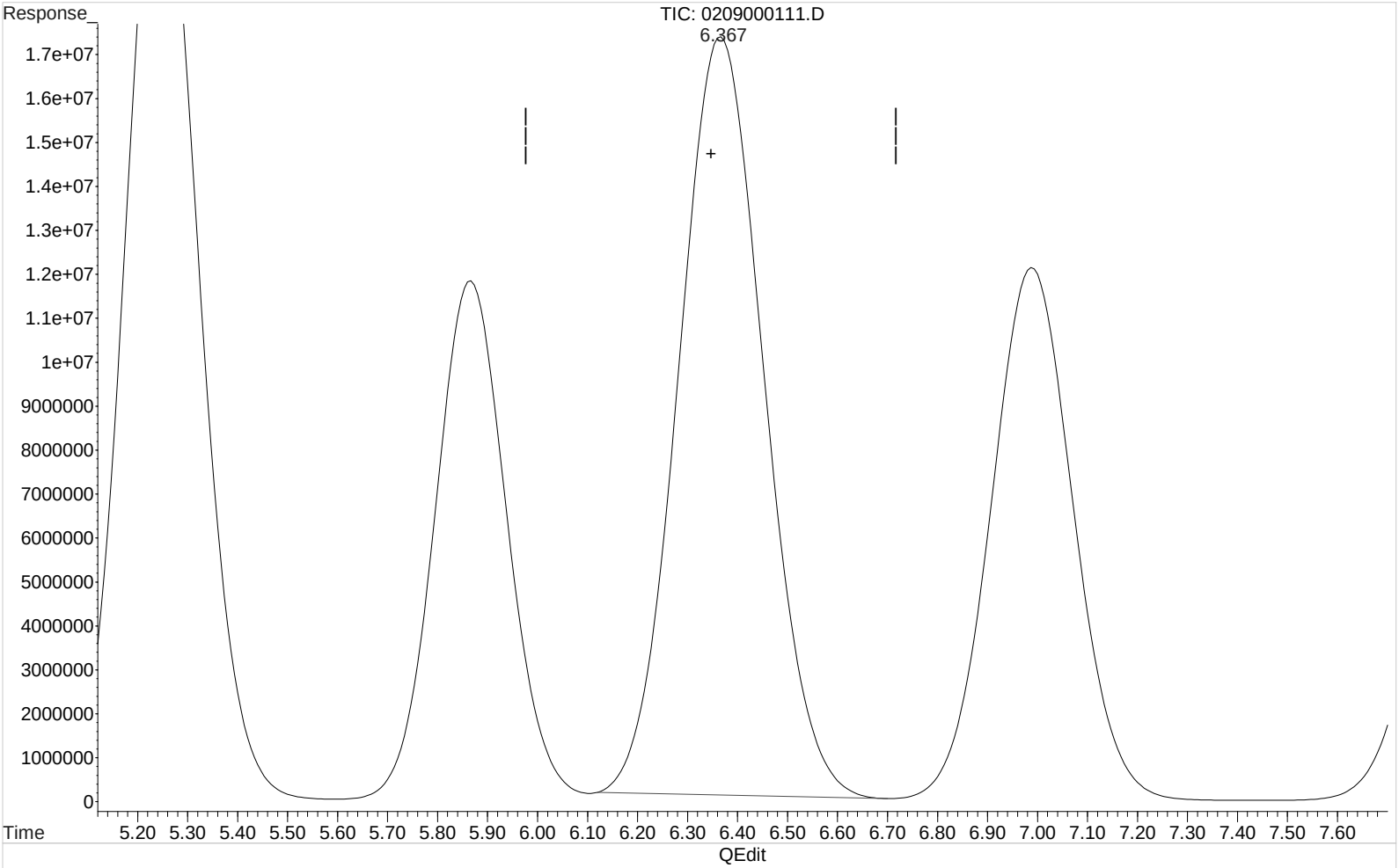
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:26:24 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:17:26 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.367min 5019.922 ug/L

response 205647048

Manual Integration:

Before

02/13/17

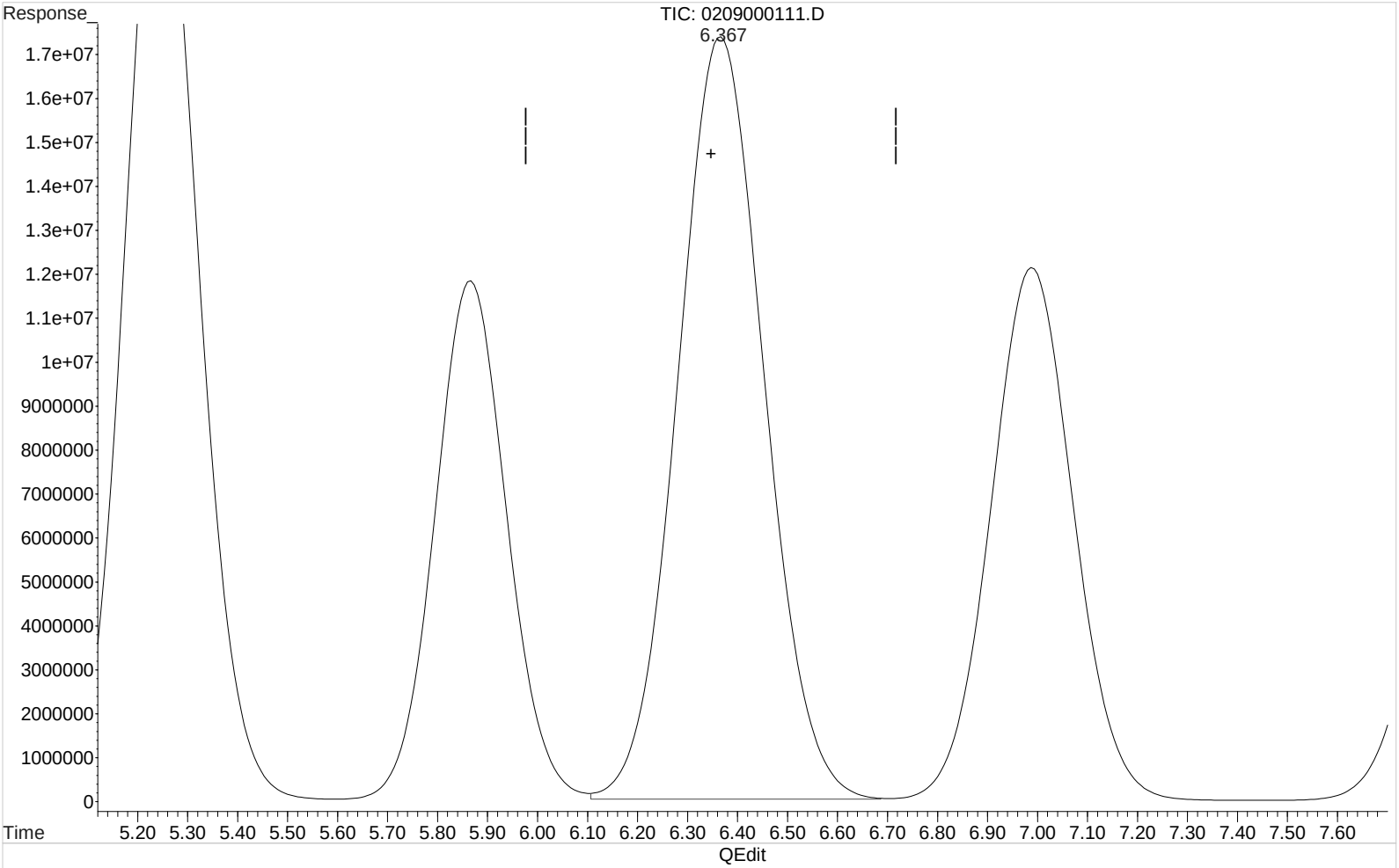
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:26:24 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:17:26 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(7) 2-Amino-4,6-DNT (T)

6.367min 5091.027 ug/L m

response 208559971

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:17:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
11) S	1-Chloro-3-Nitrobenzene	8.147	257923438	10038.822	ug/L	m
Target Compounds						
1) T	HMX	2.560	156330222	10330.871	ug/L	
2) T	RDX	2.807	177001774	10216.476	ug/L	
3) T	Nitrobenzene	4.493	370376696	10237.897	ug/L	
4) T	3,5-Dinitroaniline	5.247	458842323	10169.818	ug/L	m
5) T	4-Amino-2,6-DNT	4.873	313989796	10243.922	ug/L	m
6) T	2-NT	5.867	236863088	10164.931	ug/L	m
7) T	2-Amino-4,6-DNT	6.367	413821685	10205.169	ug/L	m
8) T	3-NT	6.987	279071838	10264.235	ug/L	m
9) T	1,3-DNB	9.140	552448178	10255.466	ug/L	
10) T	4-NT	7.853	225919896	10001.598	ug/L	m
12) T	2,6-DNT	8.827	240477250	10021.333	ug/L	
13) T	2,4-DNT	14.813	504050621	10159.346	ug/L	
14) T	Tetryl	13.000	305802840	10330.977	ug/L	
15) T	1,3,5-TNB	19.813	409388283	10169.760	ug/L	
16) T	2,4,6-TNT	20.800	385651394	10247.235	ug/L	

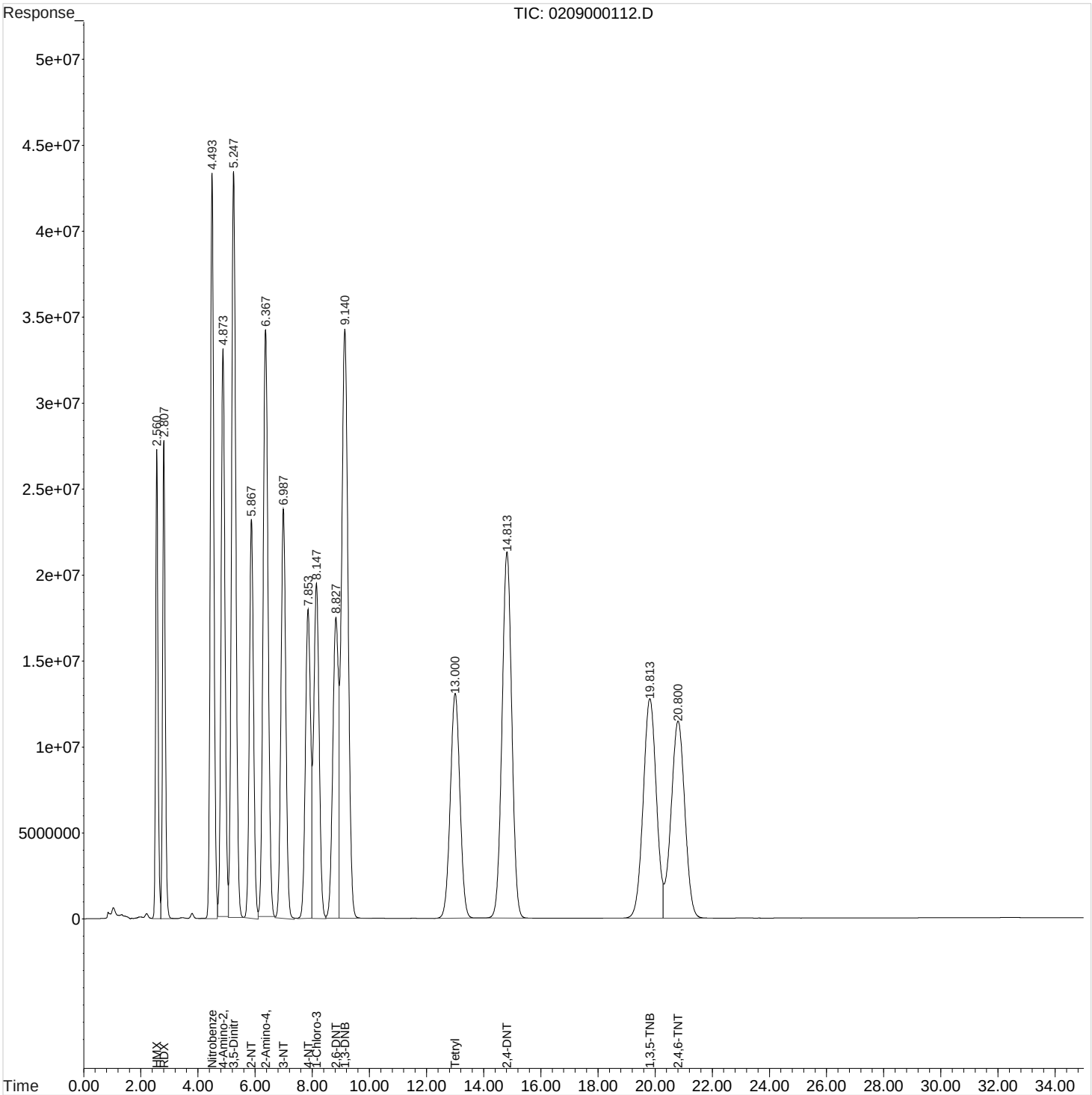
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:17:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

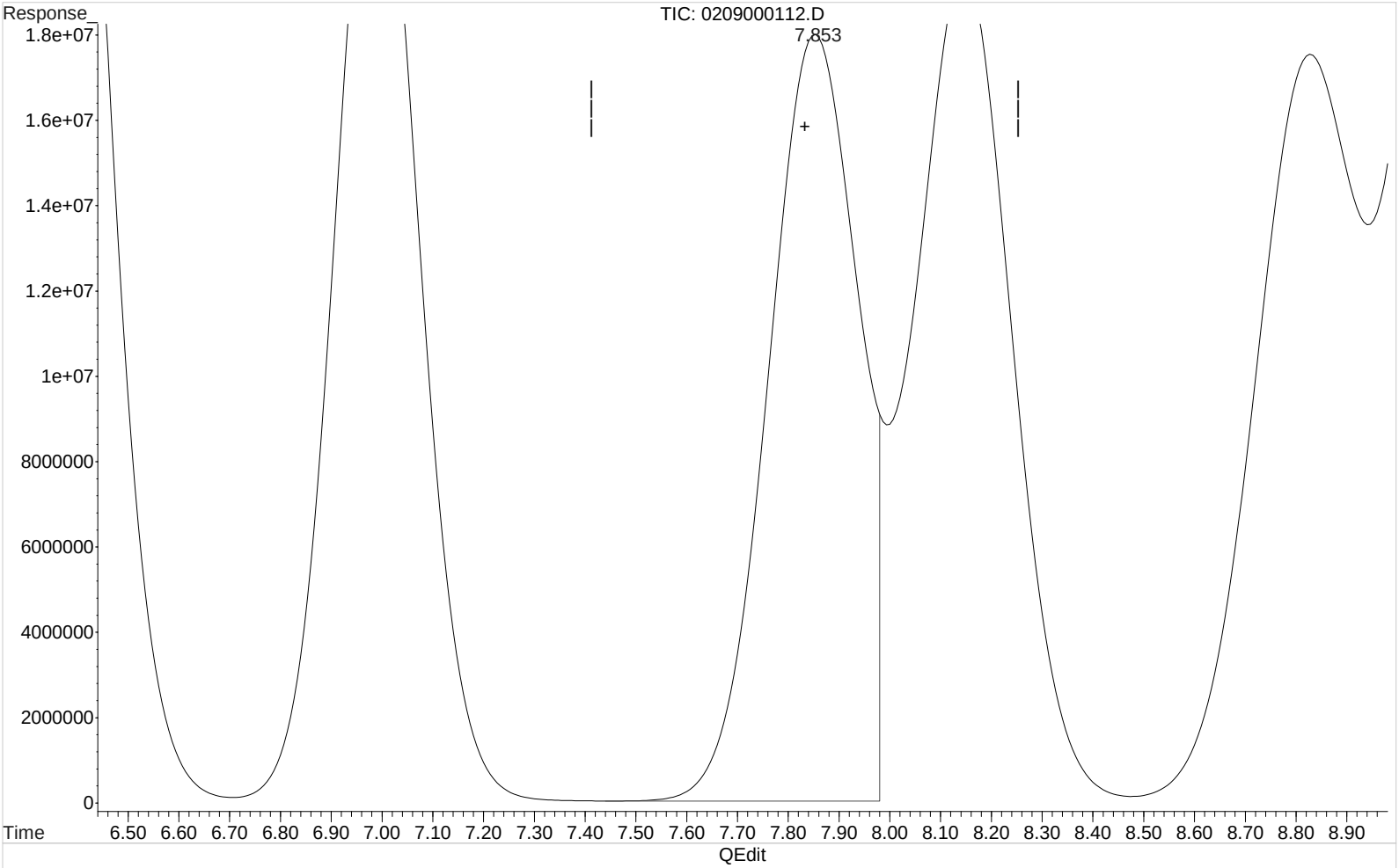


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.853min 9829.535 ug/L

response 222033281

Manual Integration:

Before

02/13/17

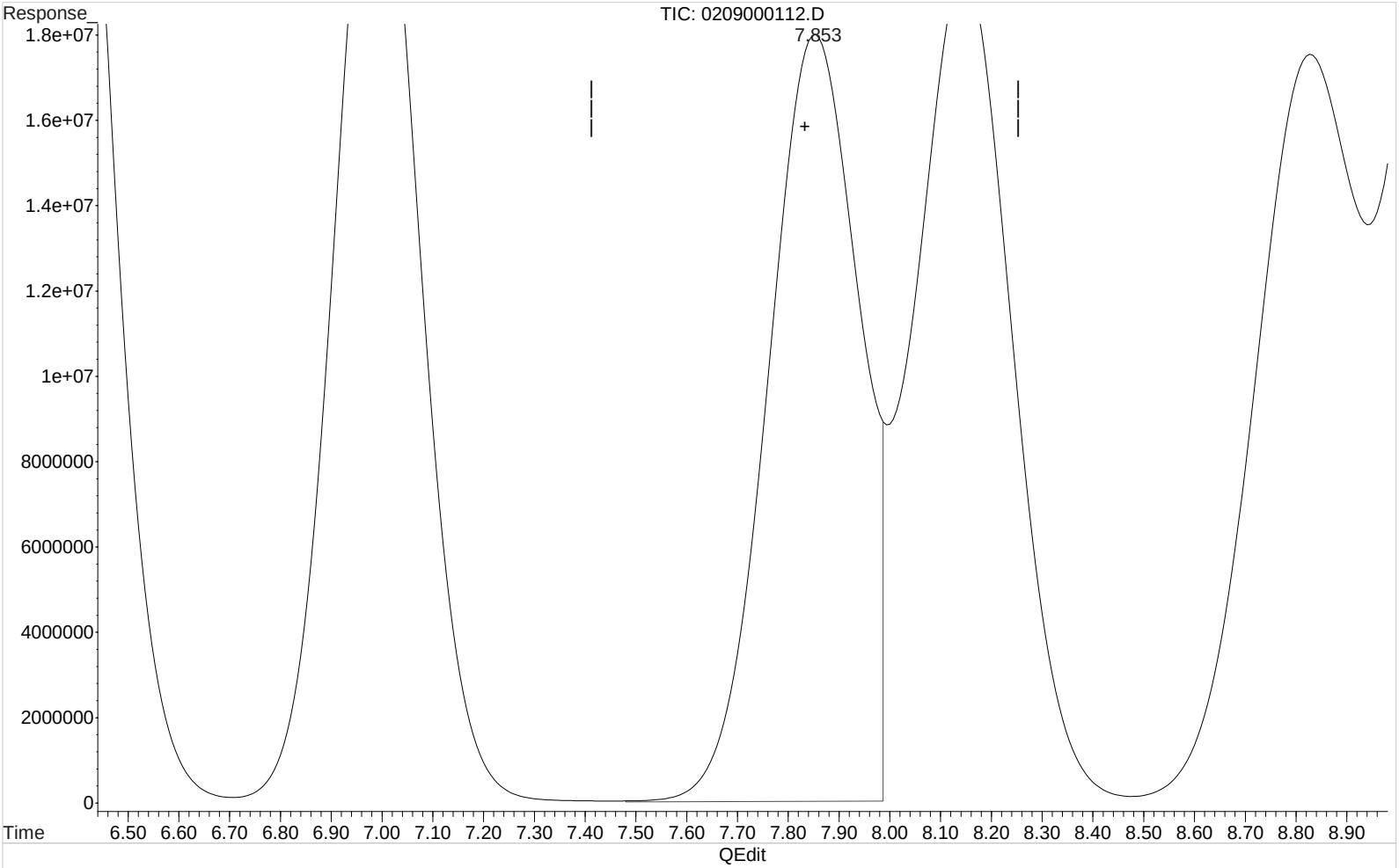
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.853min 10001.598 ug/L m

response 225919896

Manual Integration:

After

BLC

02/13/17

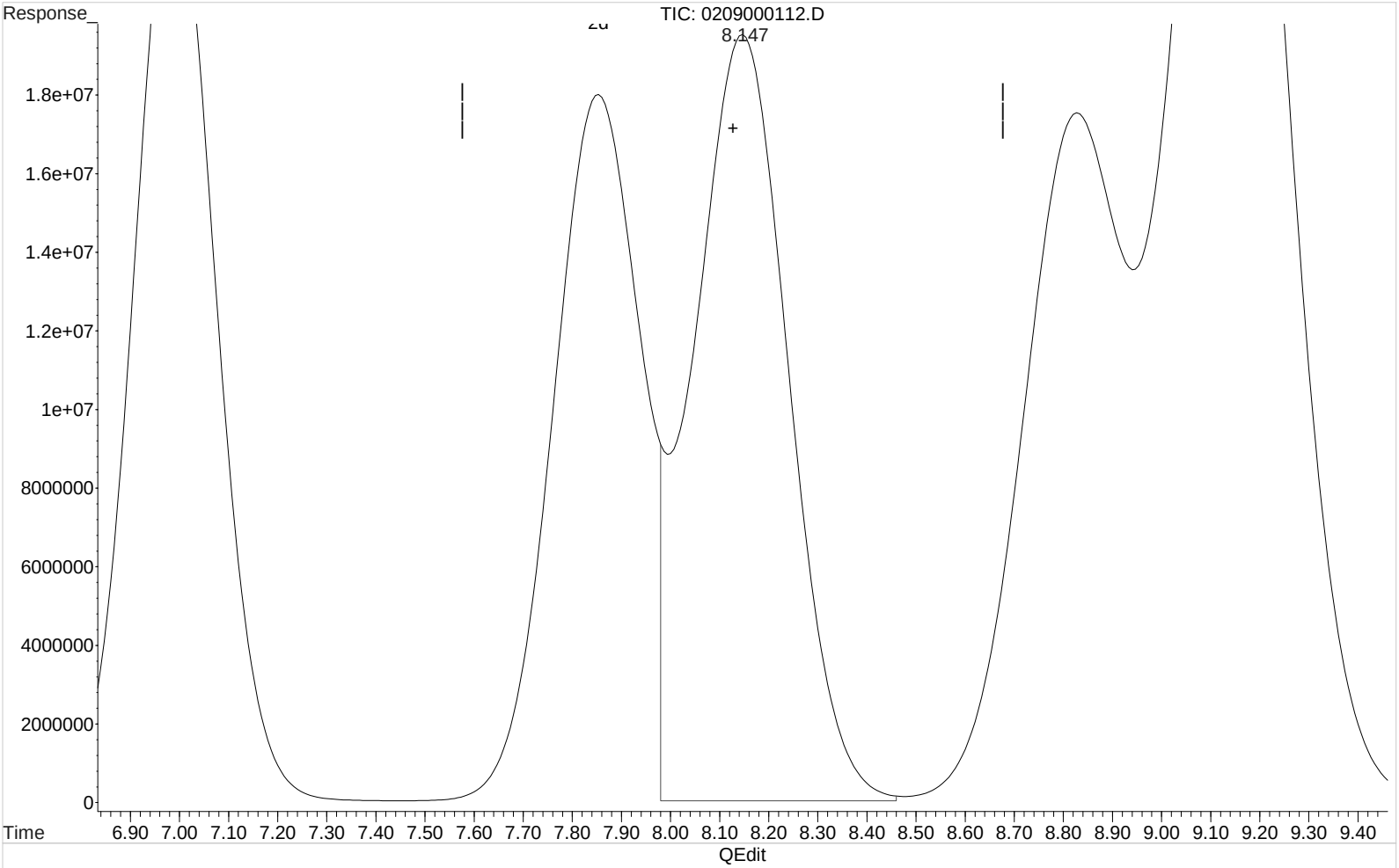
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(11) 1-Chloro-3-Nitrobenzene (S)

8.147min 10288.229 ug/L

response 264331346

Manual Integration:

Before

02/13/17

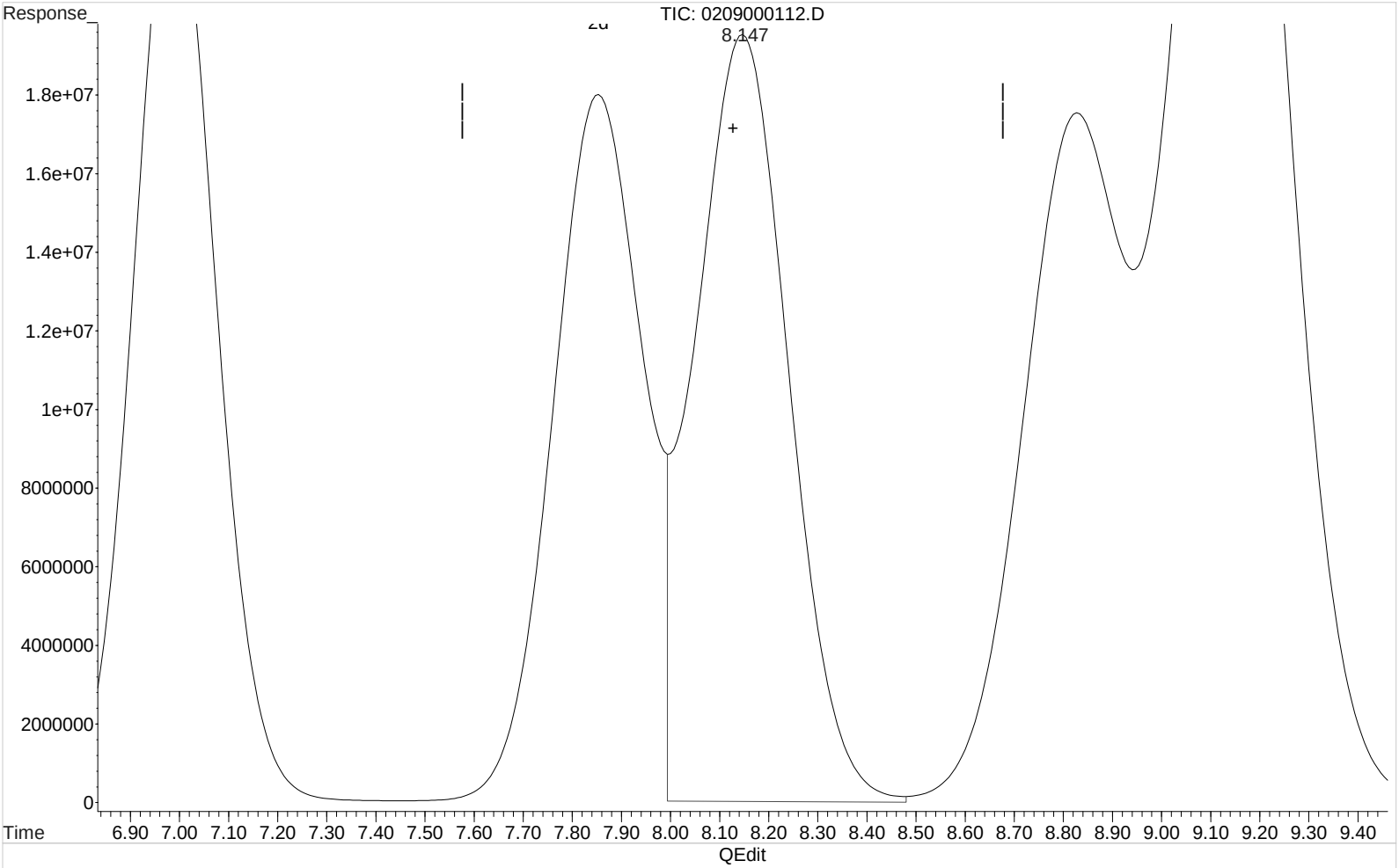
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(11) 1-Chloro-3-Nitrobenzene (S)

8.147min 10038.822 ug/L m

response 257923438

Manual Integration:

After

BLC

02/13/17

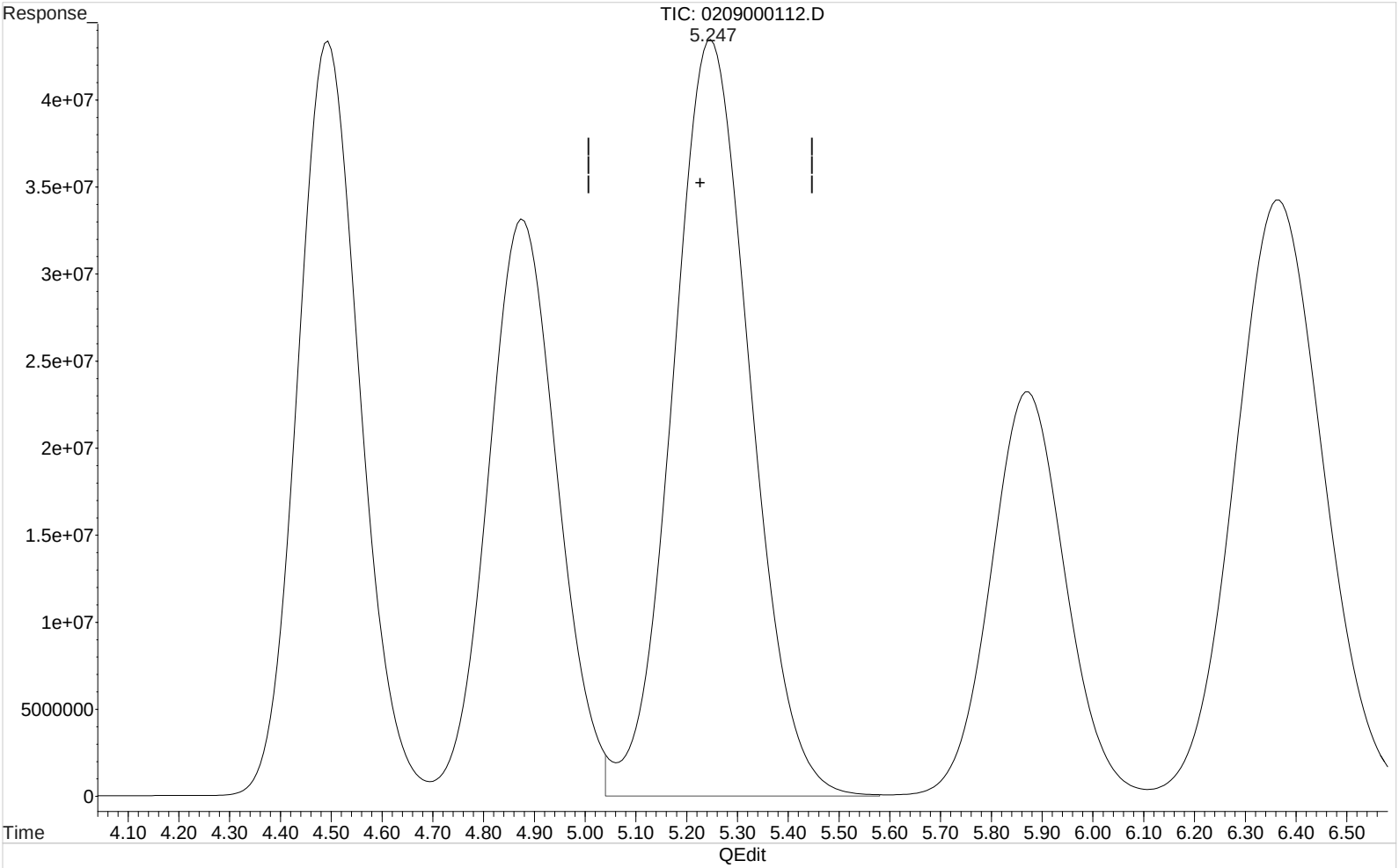
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(4) 3,5-Dinitroaniline (T)

5.247min 10267.538 ug/L

response 463251246

Manual Integration:

Before

02/13/17

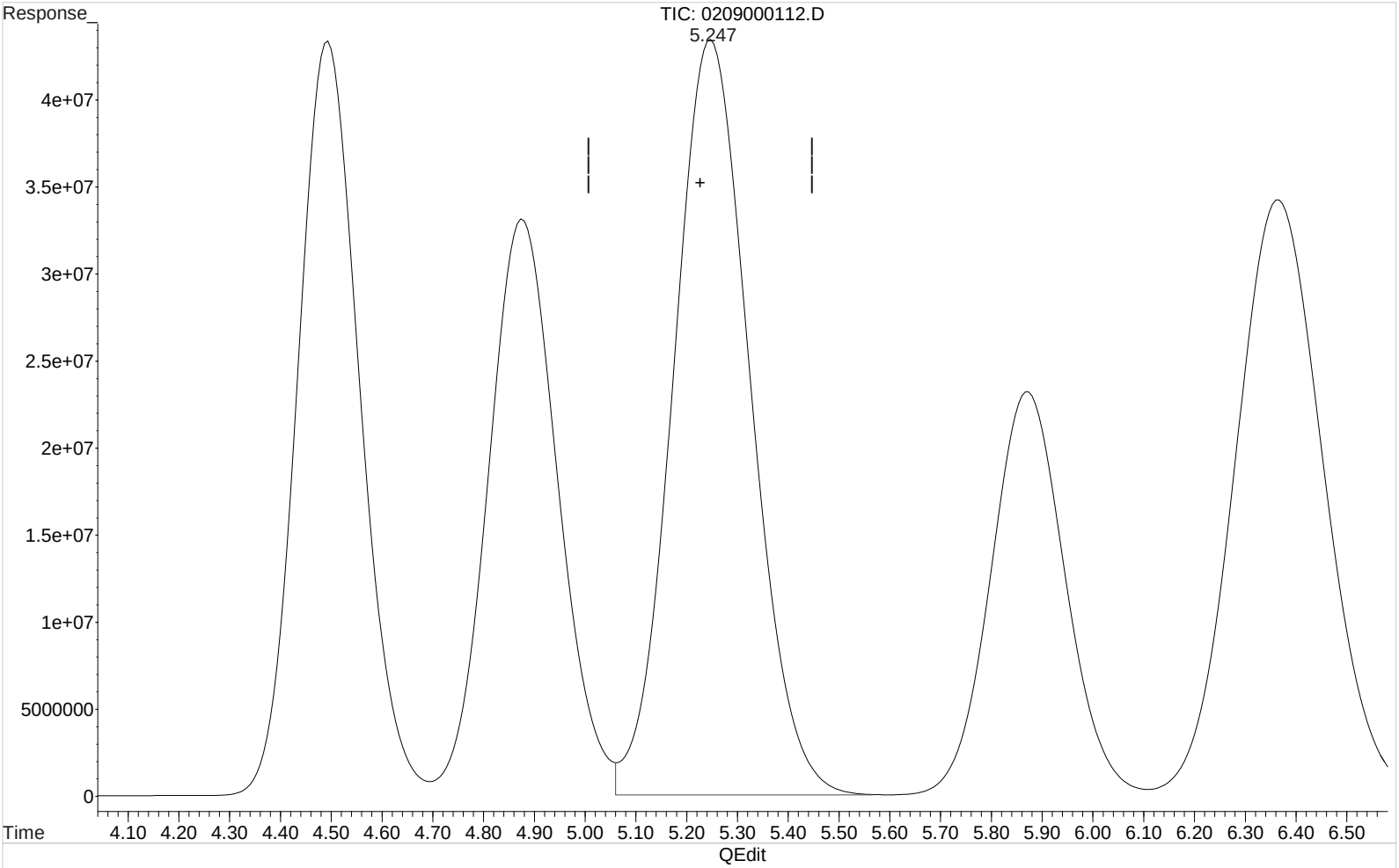
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(4) 3,5-Dinitroaniline (T)

5.247min 10169.818 ug/L m

response 458842323

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

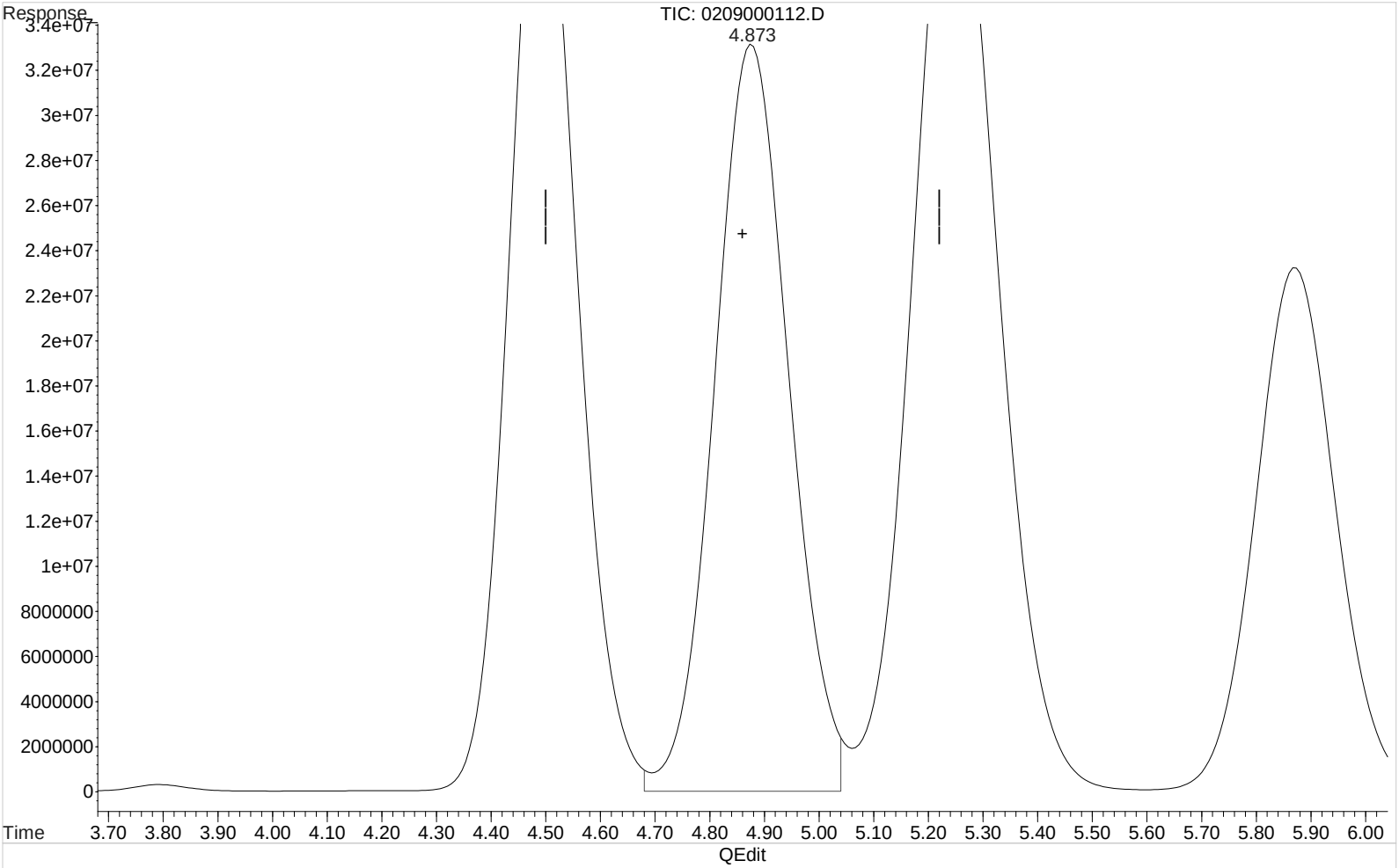
Quantitation Report (Qedit)

(b)
1st (6) 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(5) 4-Amino-2,6-DNT (T)

4.873min 10247.500 ug/L

response 314099468

Manual Integration:

Before

02/13/17

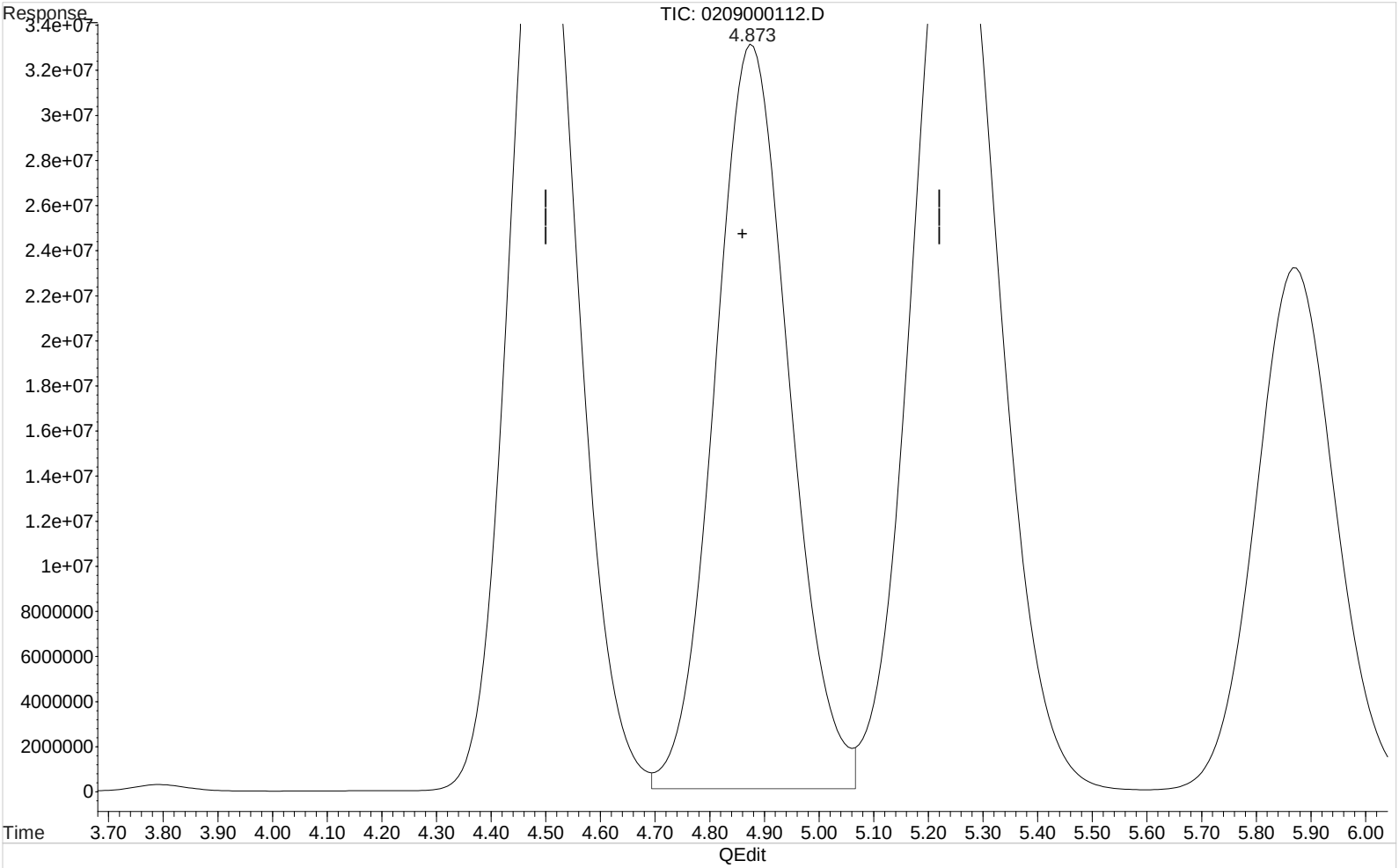
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(5) 4-Amino-2,6-DNT (T)

4.873min 10243.922 ug/L m

response 313989796

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

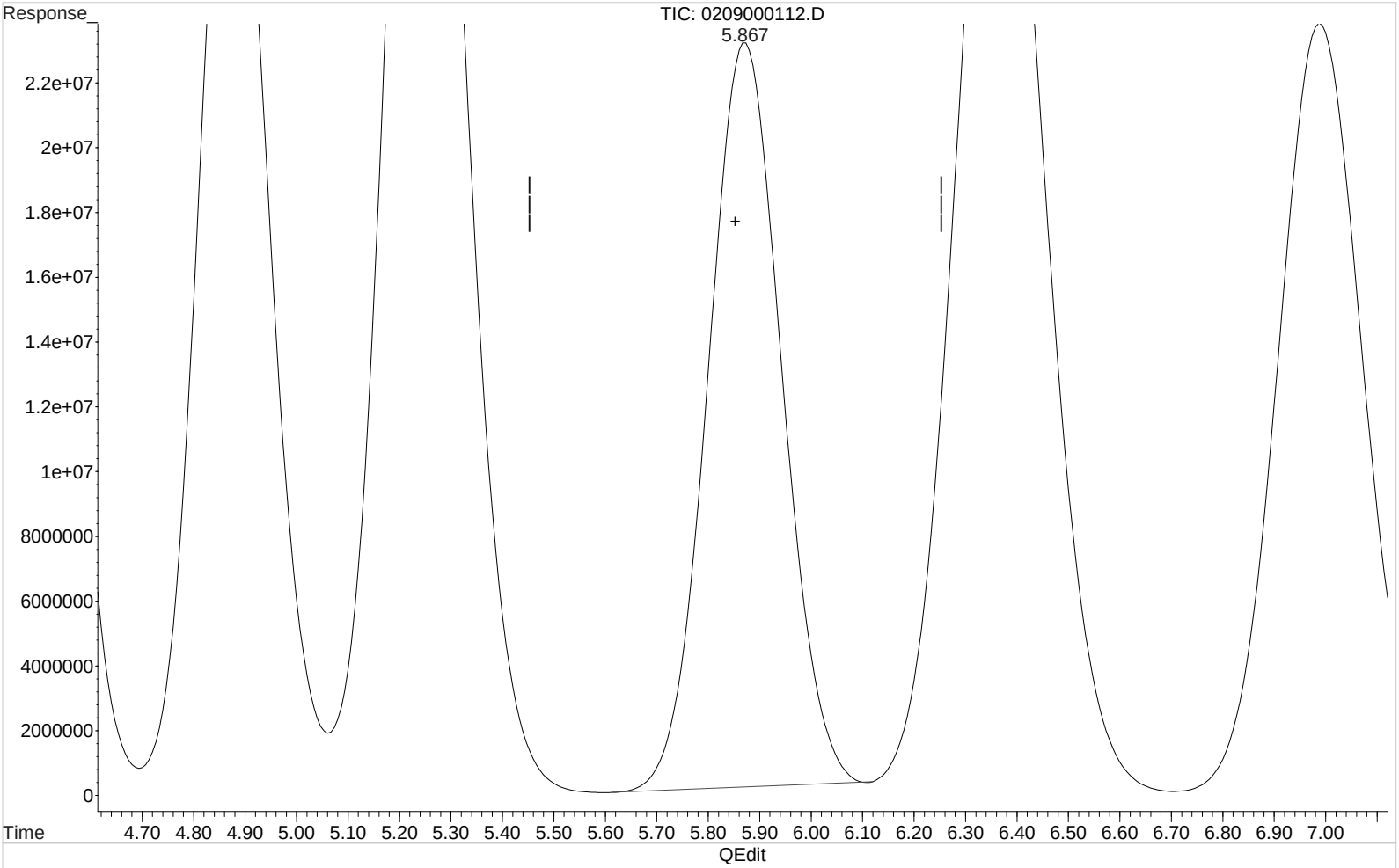
Quantitation Report (Qedit)

(b)
(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.867min 9878.222 ug/L

response 230182186

Manual Integration:

Before

02/13/17

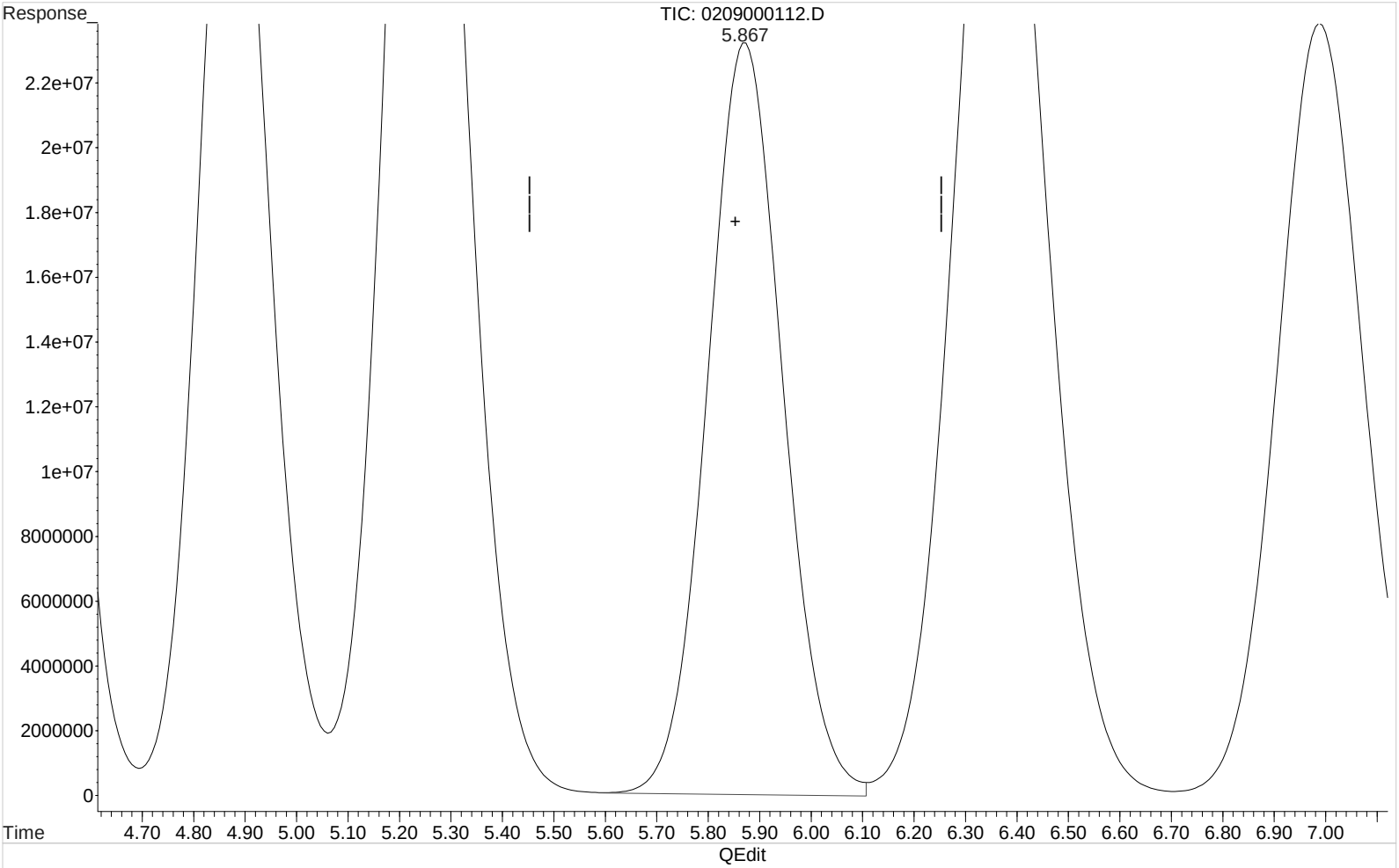
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.867min 10164.931 ug/L m

response 236863088

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b) (6)

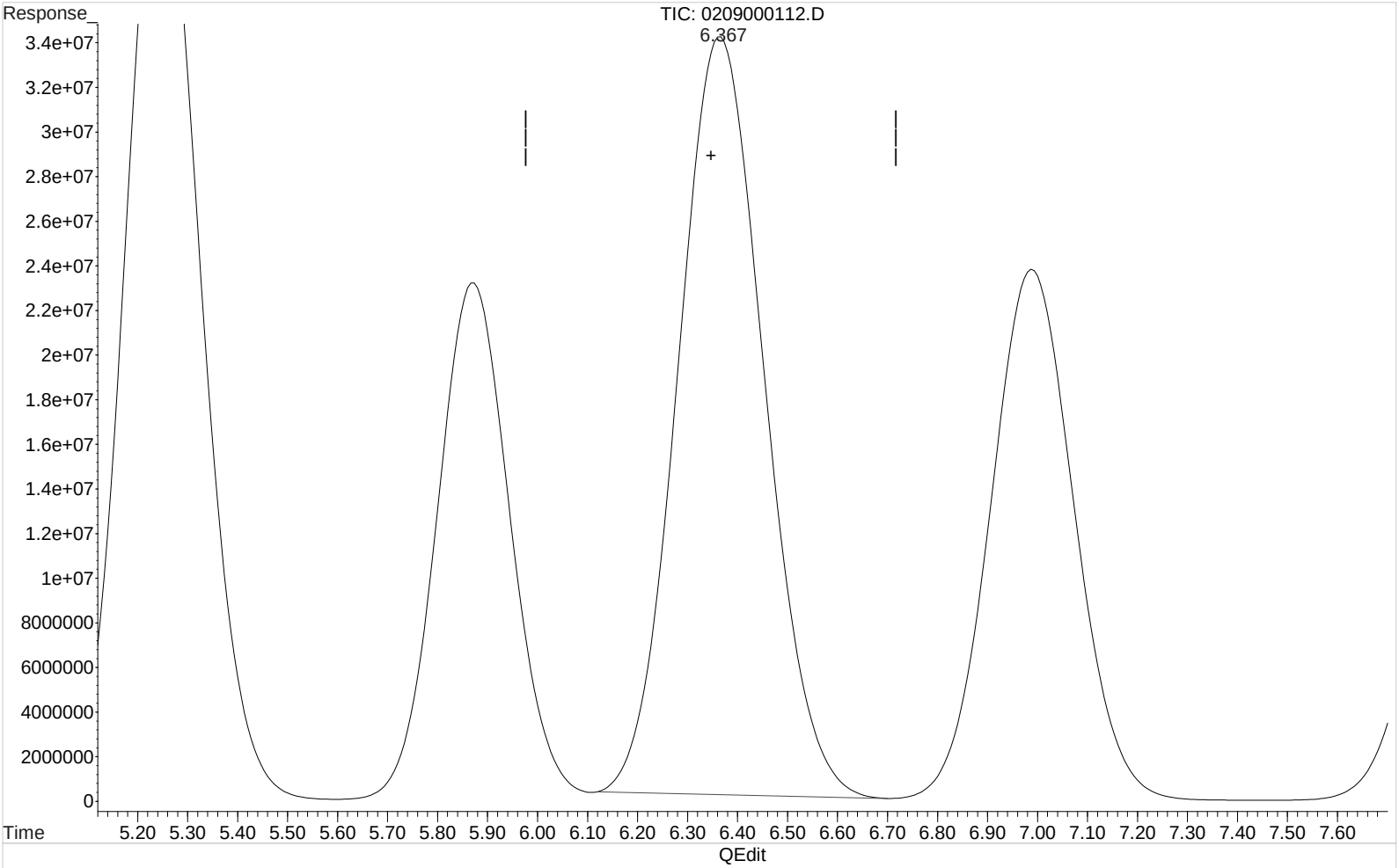
1 2/13/17

2 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(7) 2-Amino-4,6-DNT (T)

6.367min 10087.717 ug/L

response 409058973

Manual Integration:

Before

02/13/17

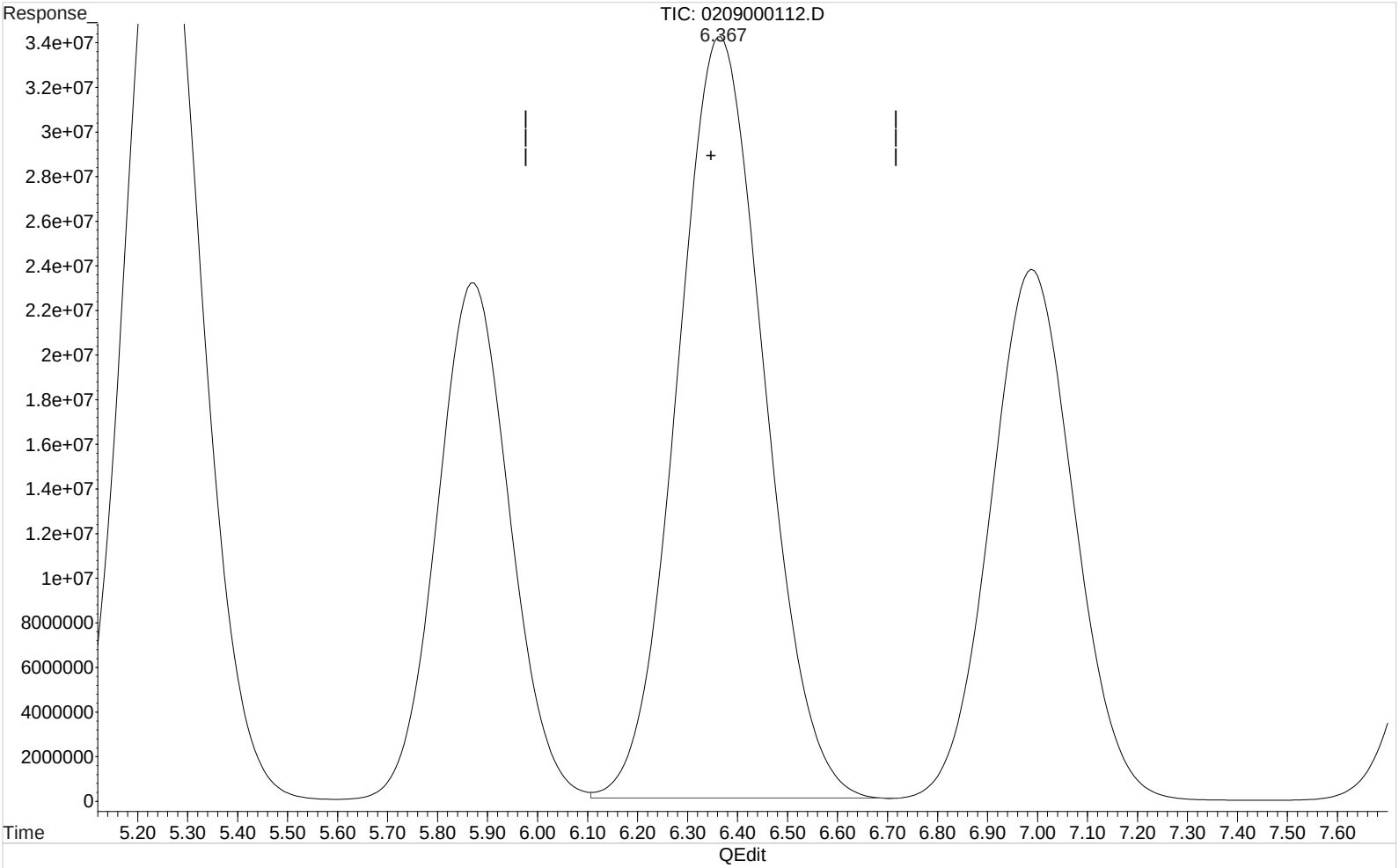
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(7) 2-Amino-4,6-DNT (T)

6.367min 10205.169 ug/L m

response 413821685

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

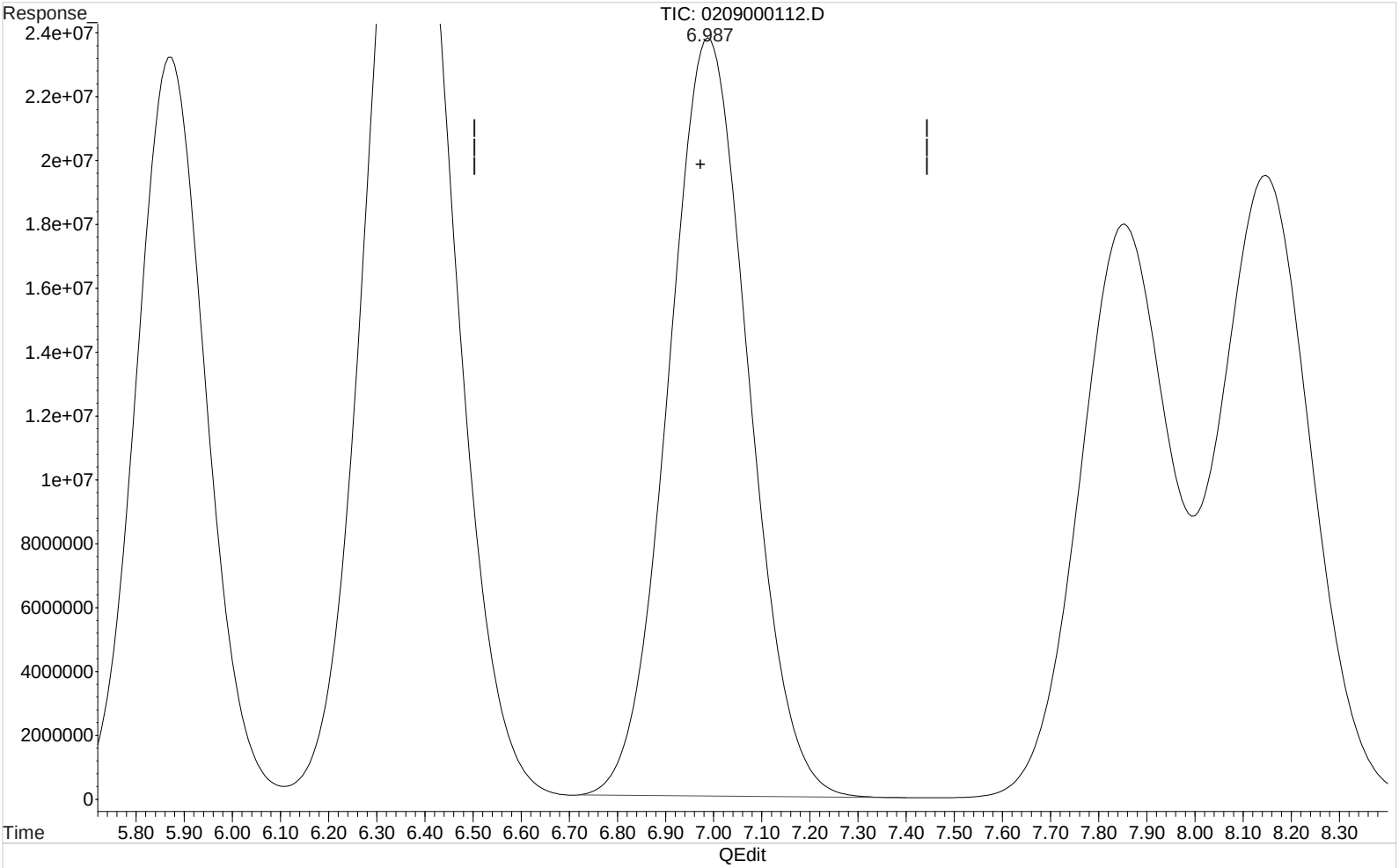
Quantitation Report (Qedit)

(b) (6)
1st [redacted] 02/13/17
2nd [redacted] 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(8) 3-NT (T)

6.987min 10153.407 ug/L

response 276058564

Manual Integration:

Before

02/13/17

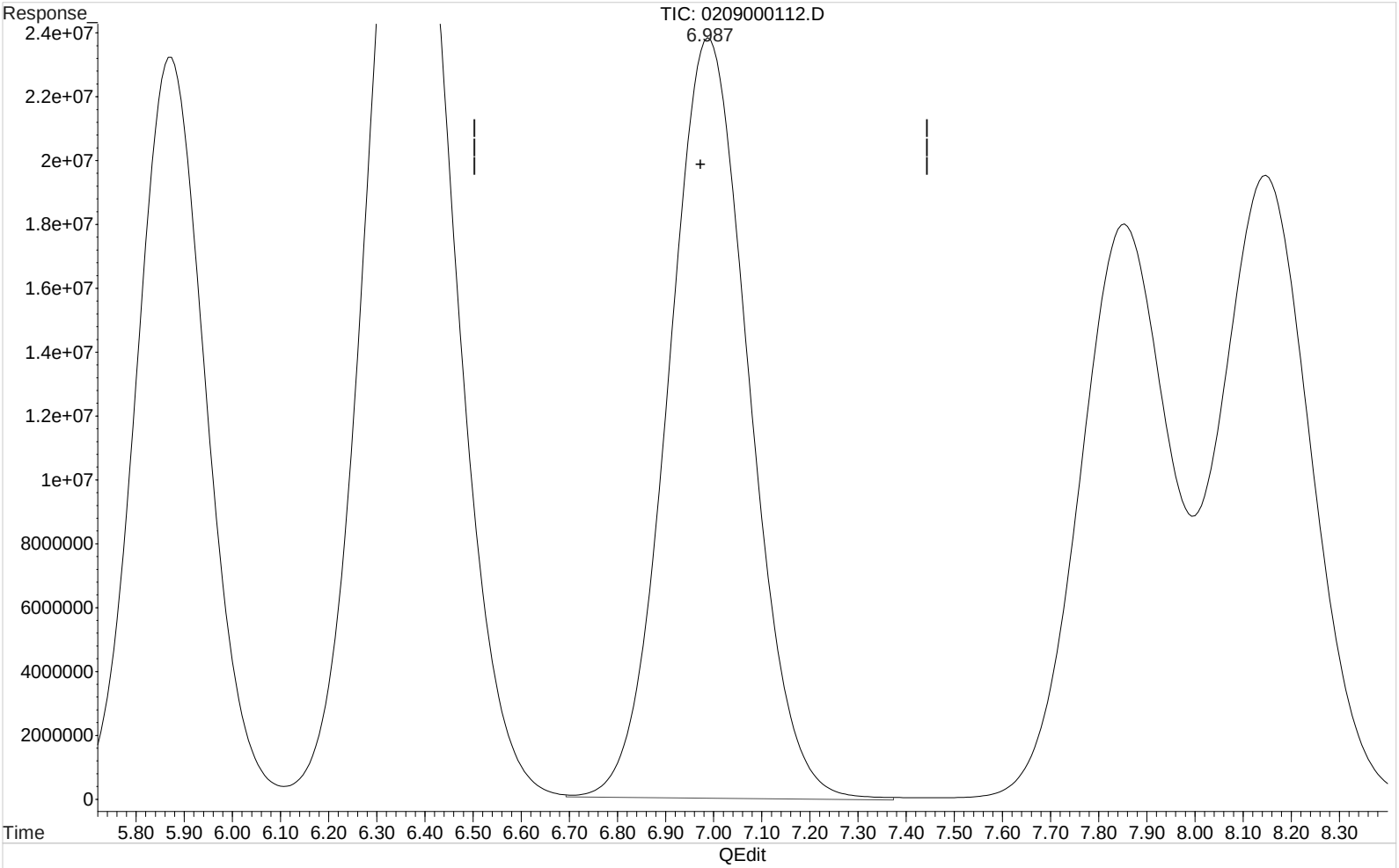
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(8) 3-NT (T)

6.987min 10264.235 ug/L m

response 279071838

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

(b) (6)
1st 02/13/17
2n 02/17/17

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:12:35 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
11)	S	1-Chloro-3-Nitrobenzene	8.127	513851991	NoCal	ug/L	
		Target Compounds					
1)	T	HMX	2.553f	302646741	NoCal	ug/L	m
2)	T	RDX	2.800f	346502613	NoCal	ug/L	m
3)	T	Nitrobenzene	4.480	723540605	NoCal	ug/L	
4)	T	3,5-Dinitroaniline	5.227	902360936	NoCal	ug/L	
5)	T	4-Amino-2,6-DNT	4.860	613026515	NoCal	ug/L	
6)	T	2-NT	5.853	466039716	NoCal	ug/L	
7)	T	2-Amino-4,6-DNT	6.347	811004098	NoCal	ug/L	m
8)	T	3-NT	6.973	543775210	NoCal	ug/L	m
9)	T	1,3-DNB	9.120	1077373089	NoCal	ug/L	m
10)	T	4-NT	7.833	451767608	NoCal	ug/L	
12)	T	2,6-DNT	8.807	479930654	NoCal	ug/L	m
13)	T	2,4-DNT	14.800	992289543	NoCal	ug/L	
14)	T	Tetryl	12.987	592011460	NoCal	ug/L	
15)	T	1,3,5-TNB	19.800f	805109064	NoCal	ug/L	m
16)	T	2,4,6-TNT	20.780f	752693580	NoCal	ug/L	

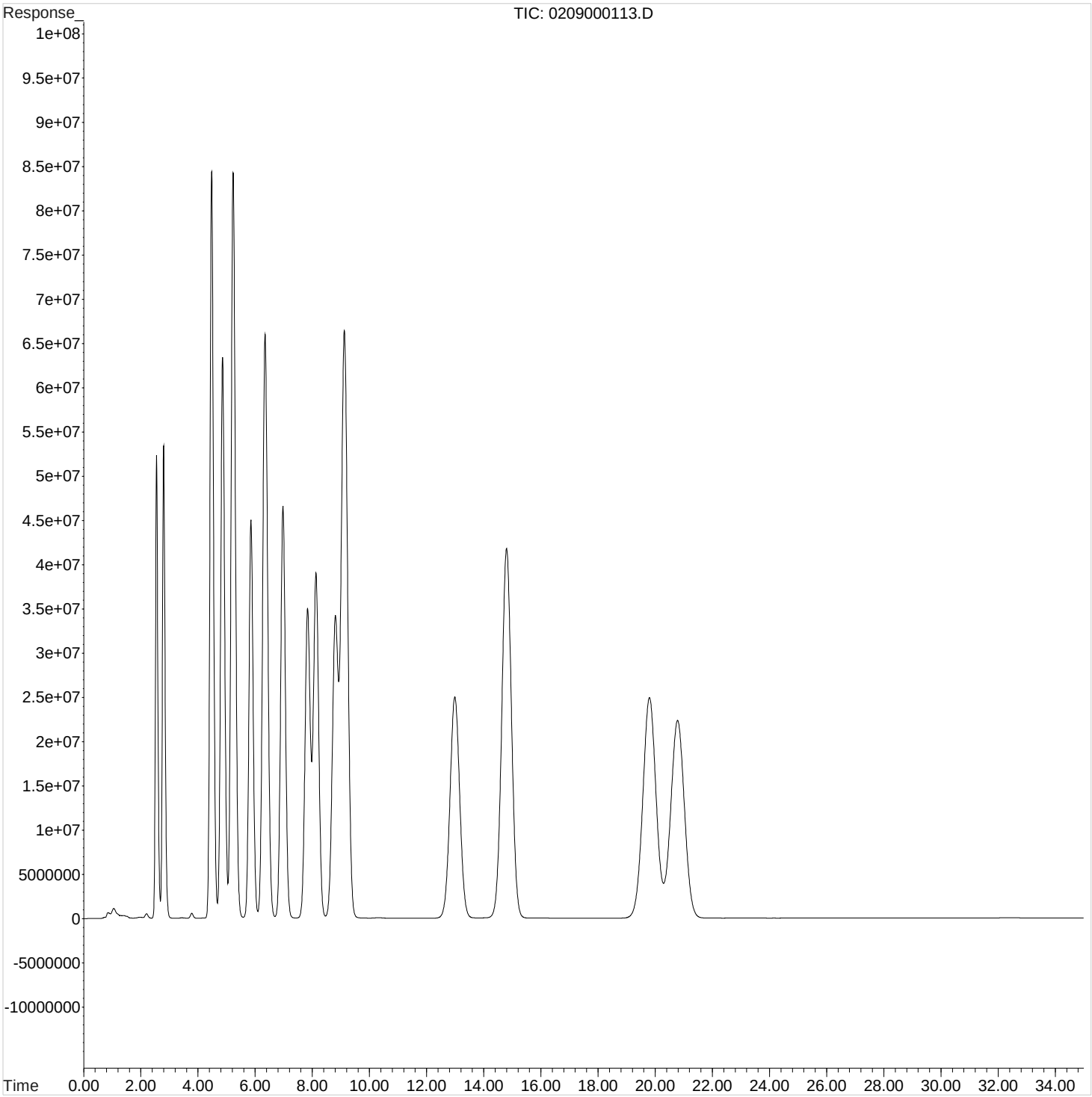
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:12:35 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

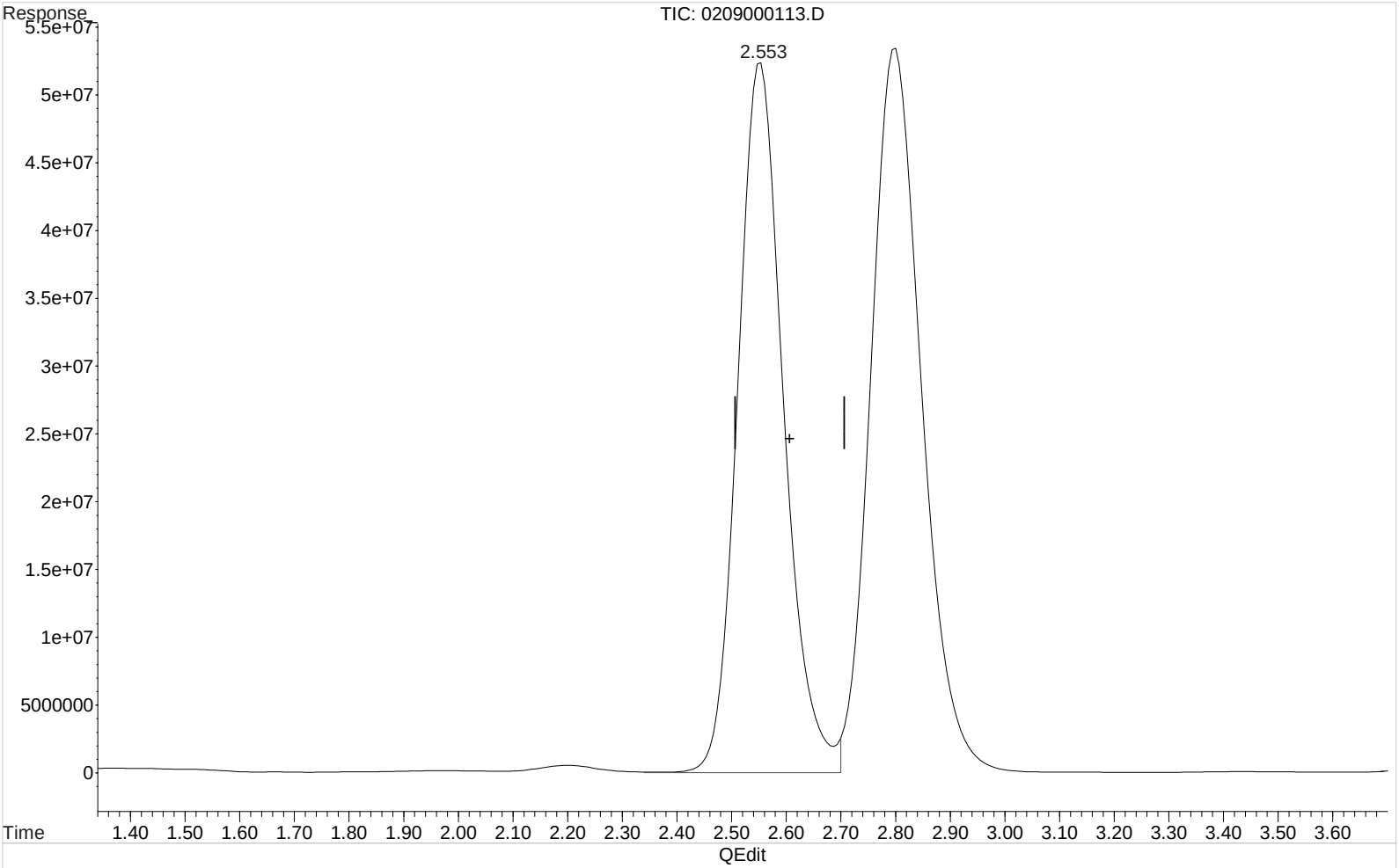


(b) (6)
1st 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:19 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.553min 0.000 ug/L

response 305316401

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

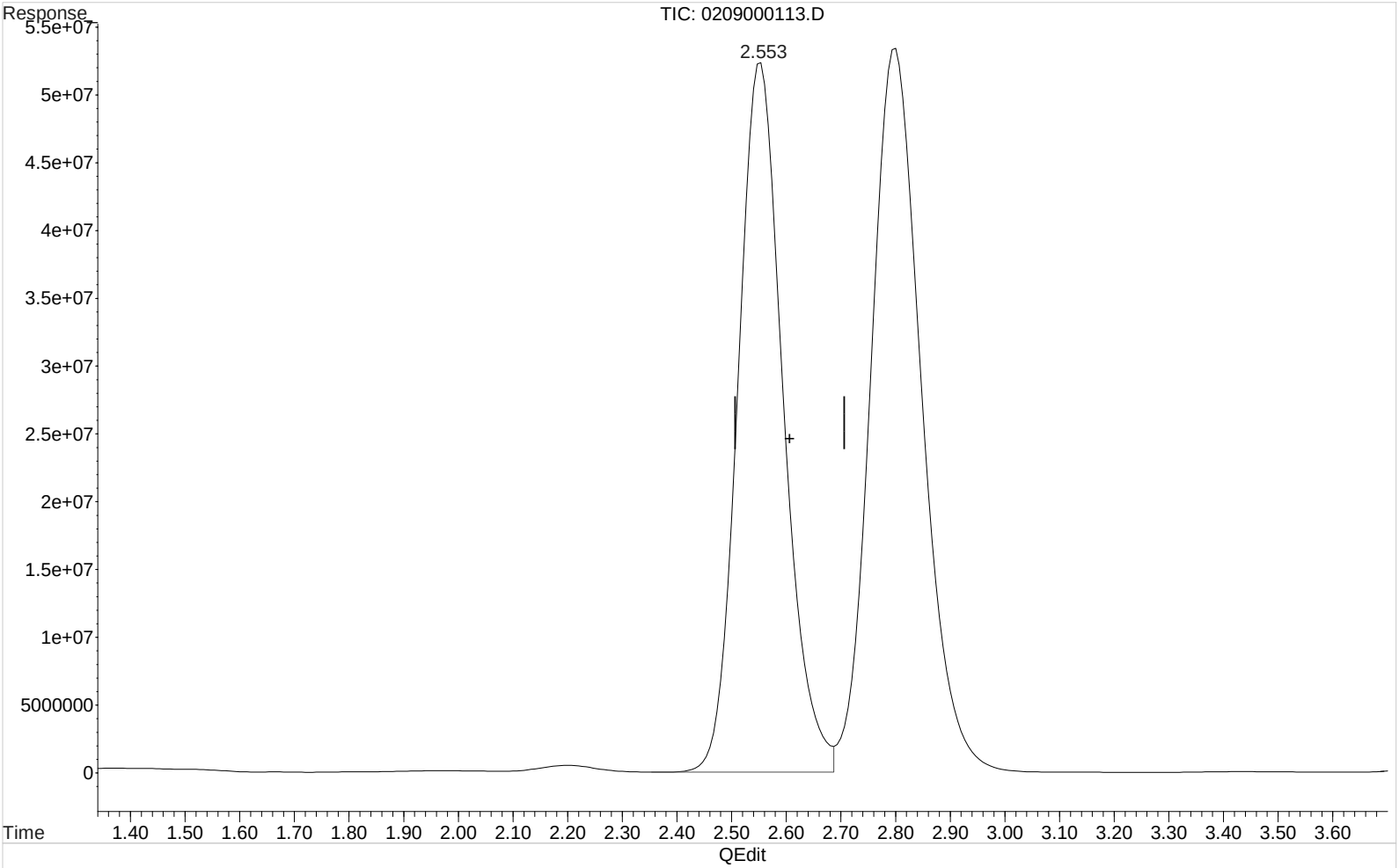
Quantitation Report (Qedit)

1st (b)(6) 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:19 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.553min 0.000 ug/L m

response 302646741

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

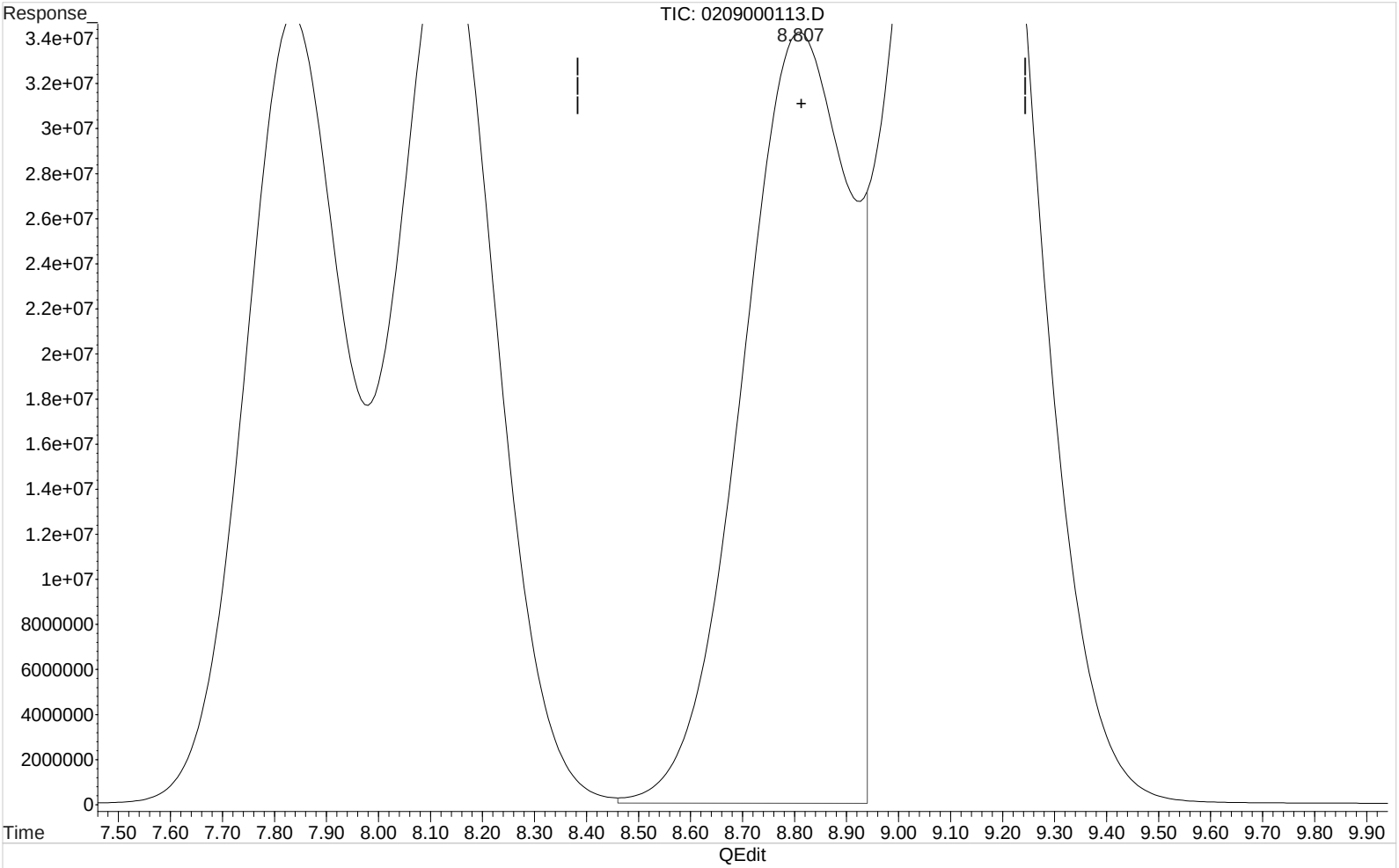
Quantitation Report (Qedit)

(b) (6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(12) 2,6-DNT (T)

8.807min 0.000 ug/L

response 500177008

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

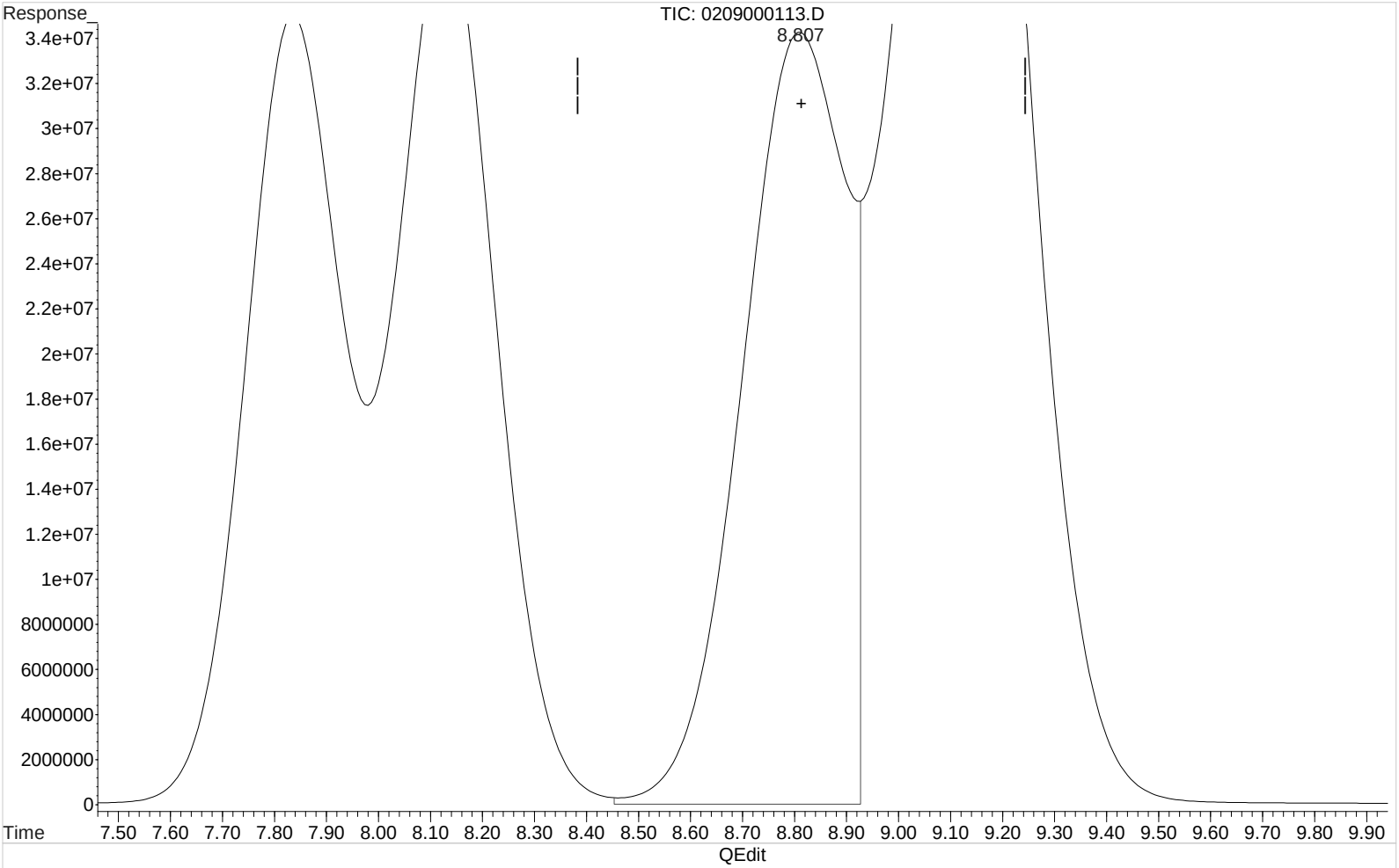
Quantitation Report (Qedit)

(b) (6)
1st [redacted] 2/13/17
2n [redacted] 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(12) 2,6-DNT (T)

8.807min 0.000 ug/L m

response 479930654

Manual Integration:

After

BLC

02/13/17

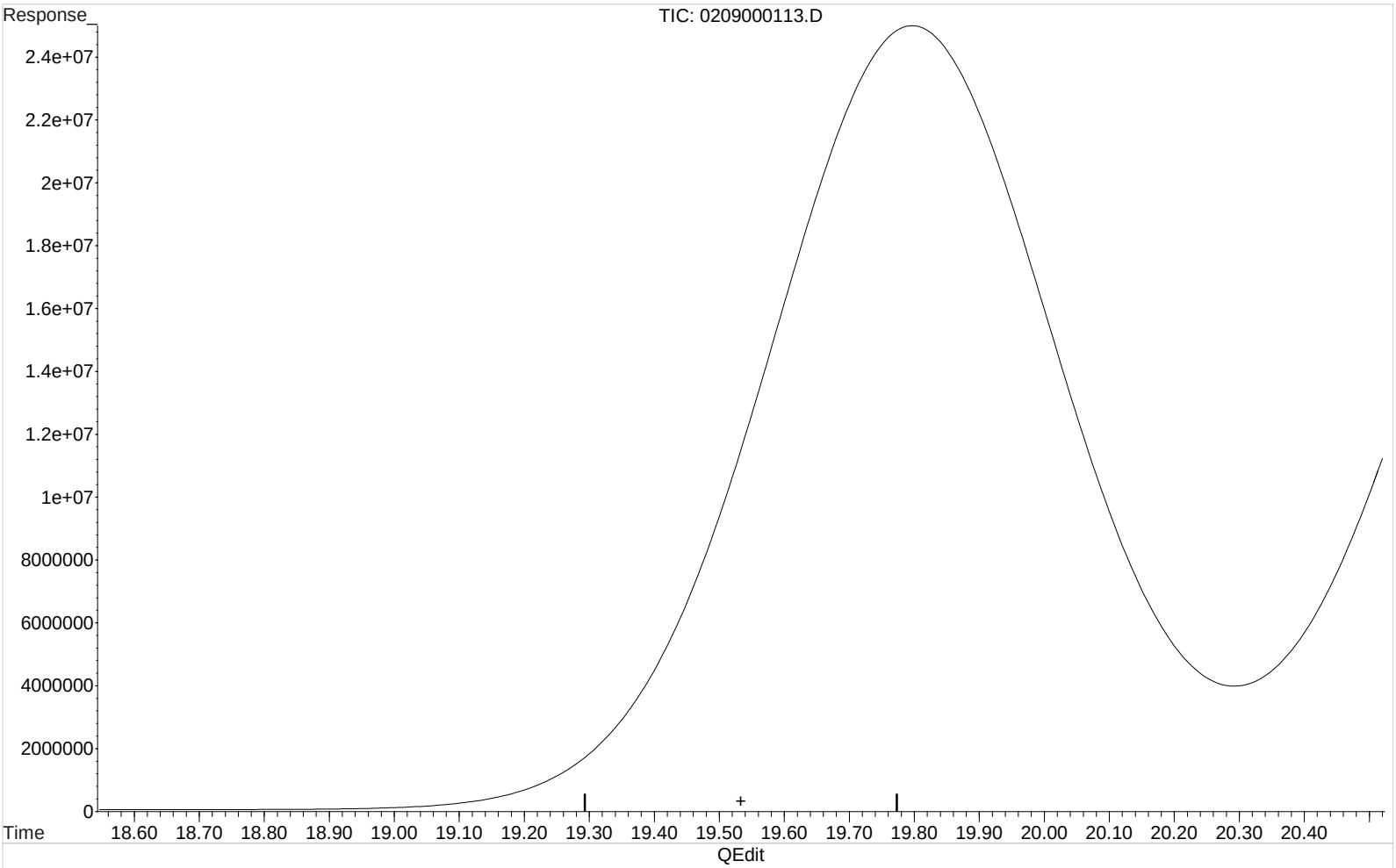
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(15) 1,3,5-TNB (T)

19.533min 0.000 ug/L

response 0

Manual Integration:

Before

02/13/17

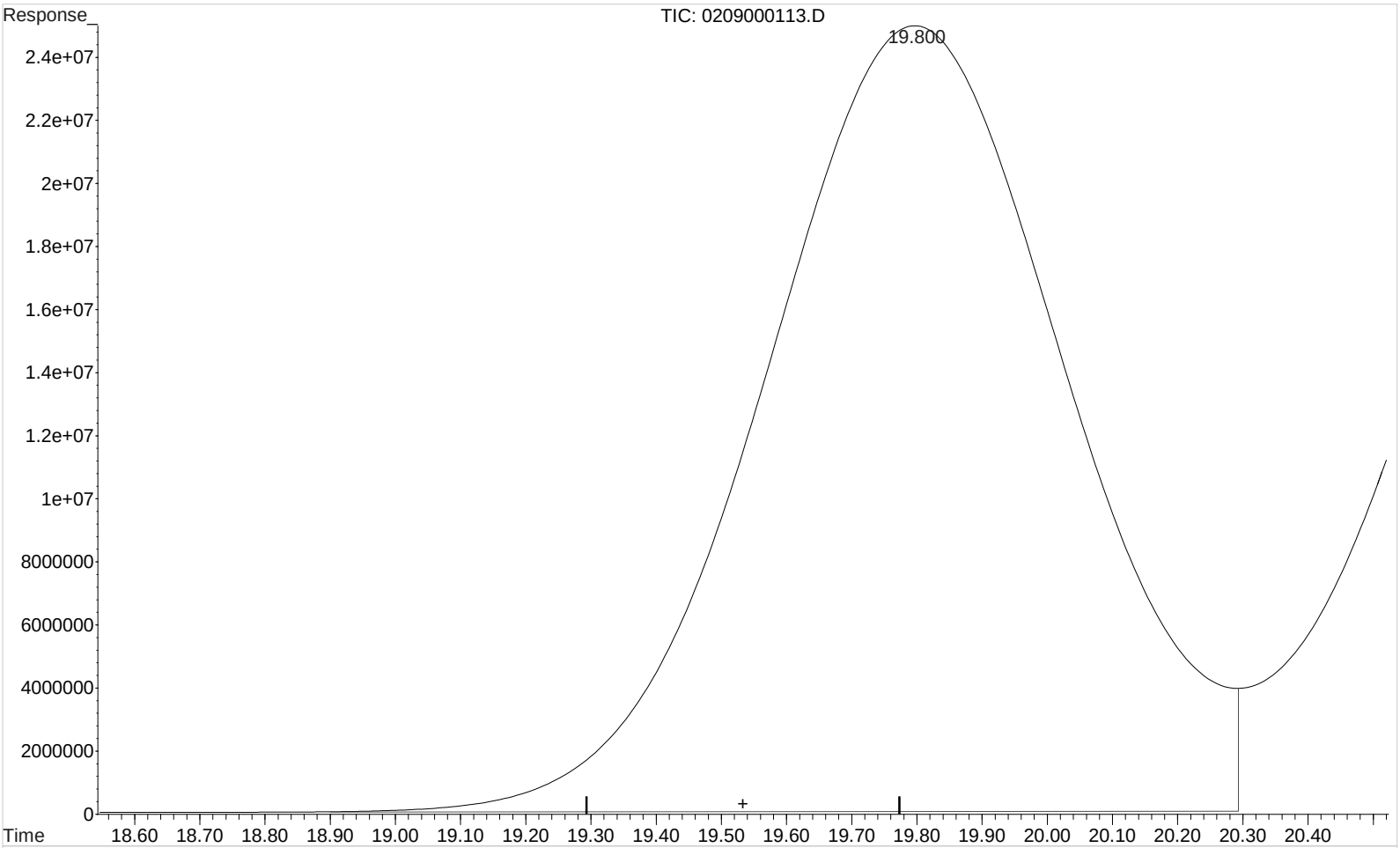
(+) = Expected Retention Time

(b) (6)
1st 2/13/17
2n 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(15) 1,3,5-TNB (T)

19.800min 0.000 ug/L m

response 805109064

Manual Integration:

After

BLC

02/13/17

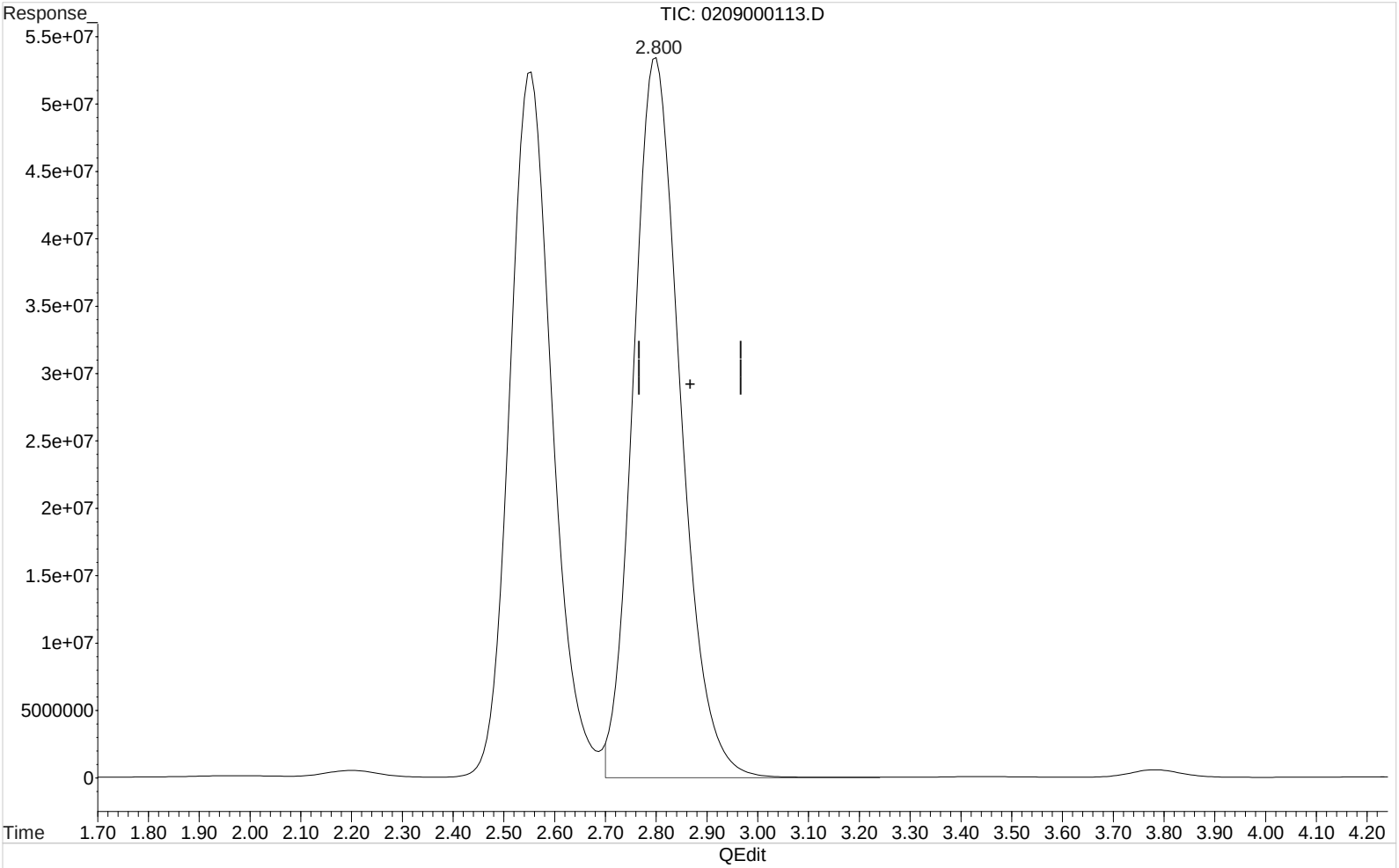
(+) = Expected Retention Time

1st (b)(6) 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:19 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(2) RDX (T)

2.800min 0.000 ug/L

response 343726550

Manual Integration:

Before

02/13/17

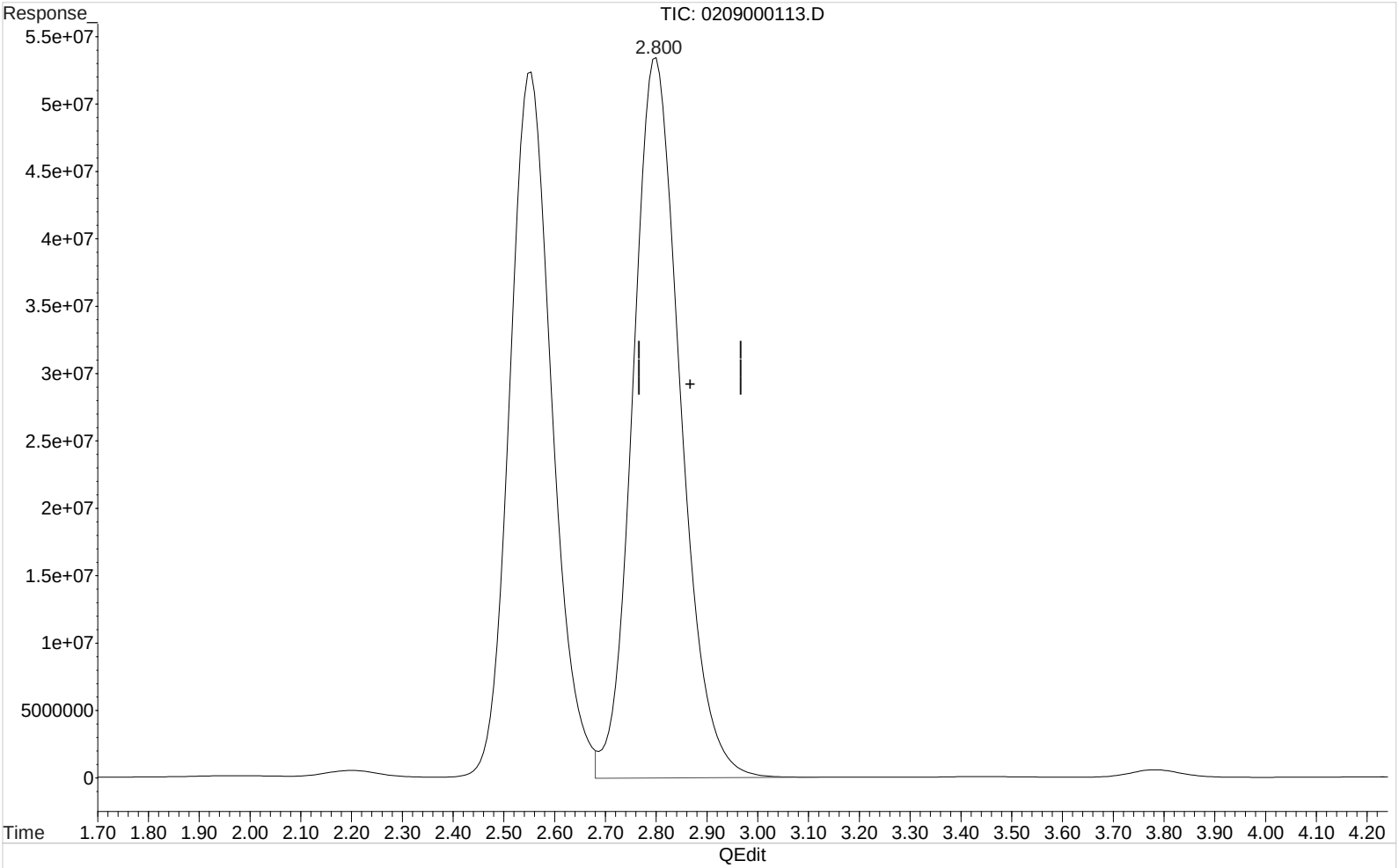
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:19 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.800min 0.000 ug/L m

response 346502613

Manual Integration:

After

BLC

02/13/17

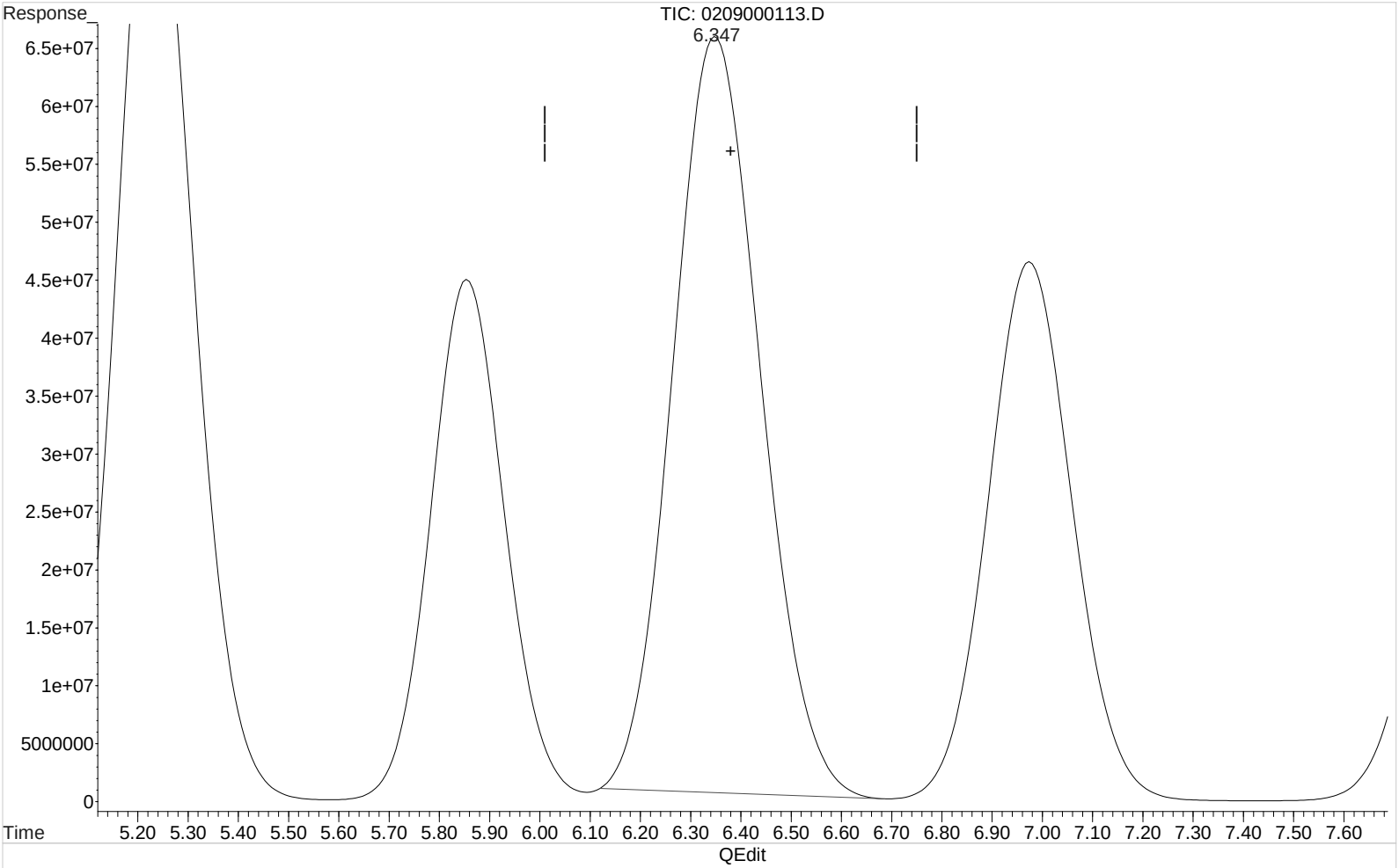
(+) = Expected Retention Time

1st (b) (6) /13/17
2nd /17/17

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.347min 0.000 ug/L

response 793832791

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

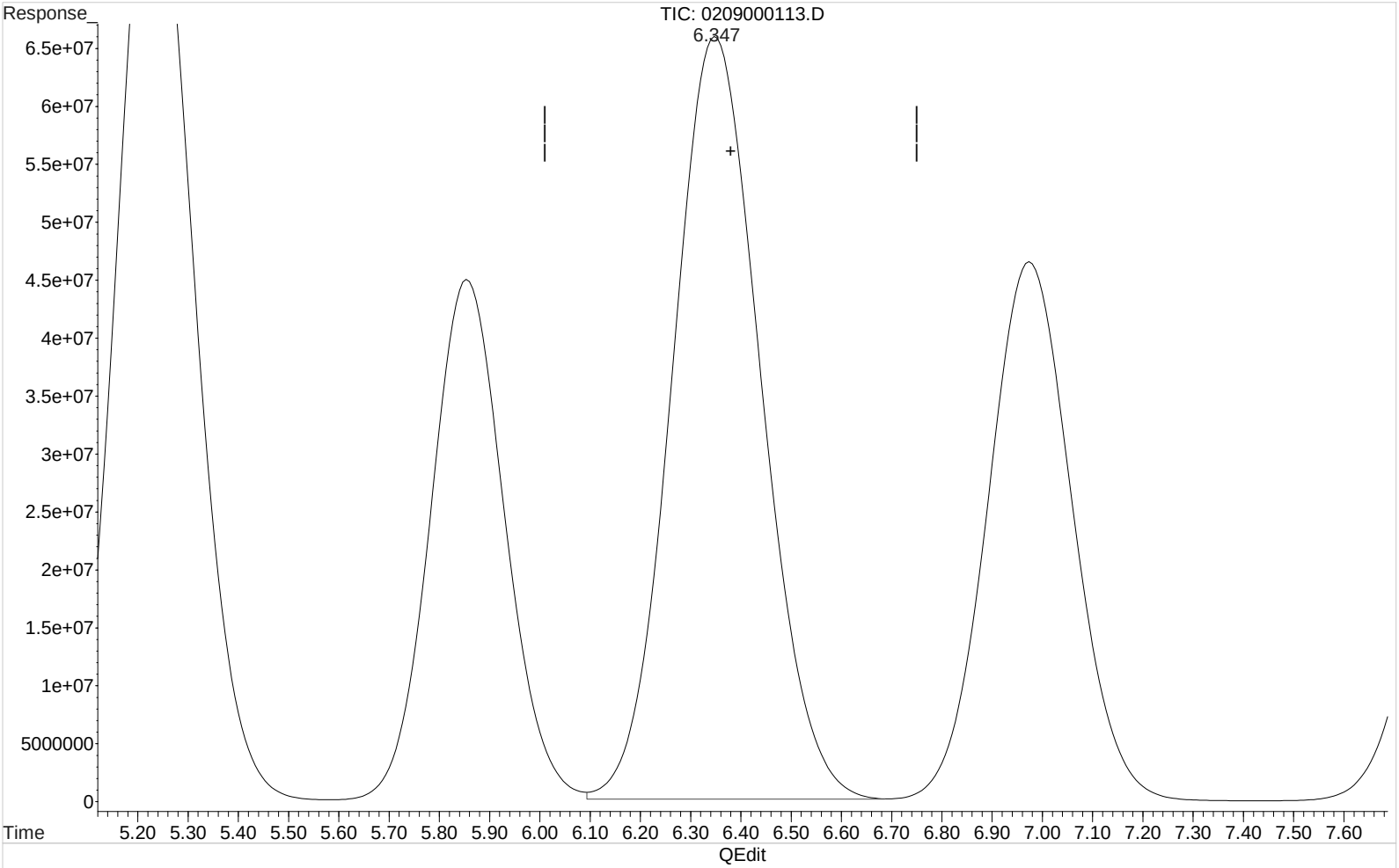
Quantitation Report (Qedit)

(b) (6)
1st 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.347min 0.000 ug/L m

response 811004098

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

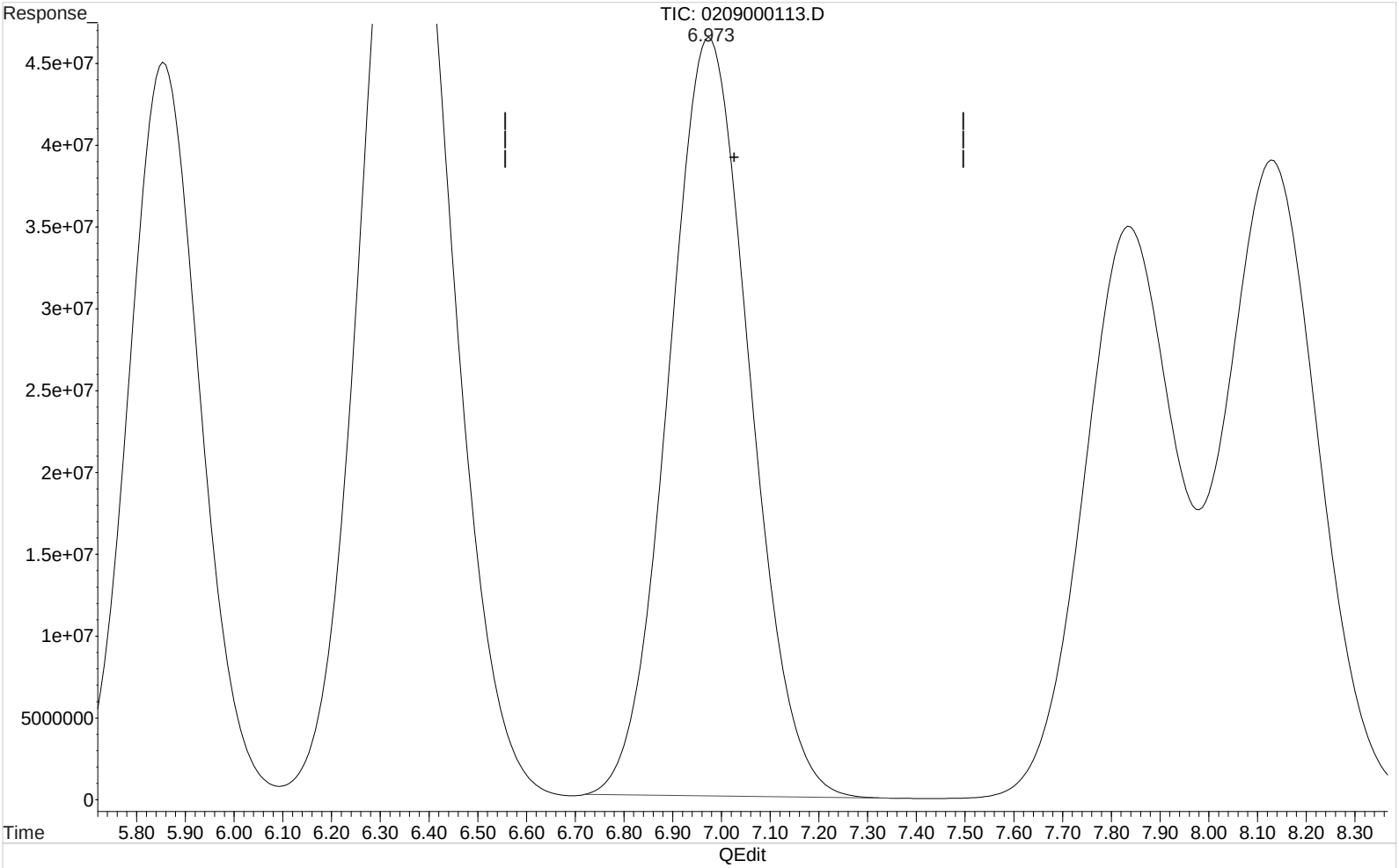
Quantitation Report (Qedit)

(b) (6)
1st 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(8) 3-NT (T)

6.973min 0.000 ug/L

response 539697946

Manual Integration:

Before

02/13/17

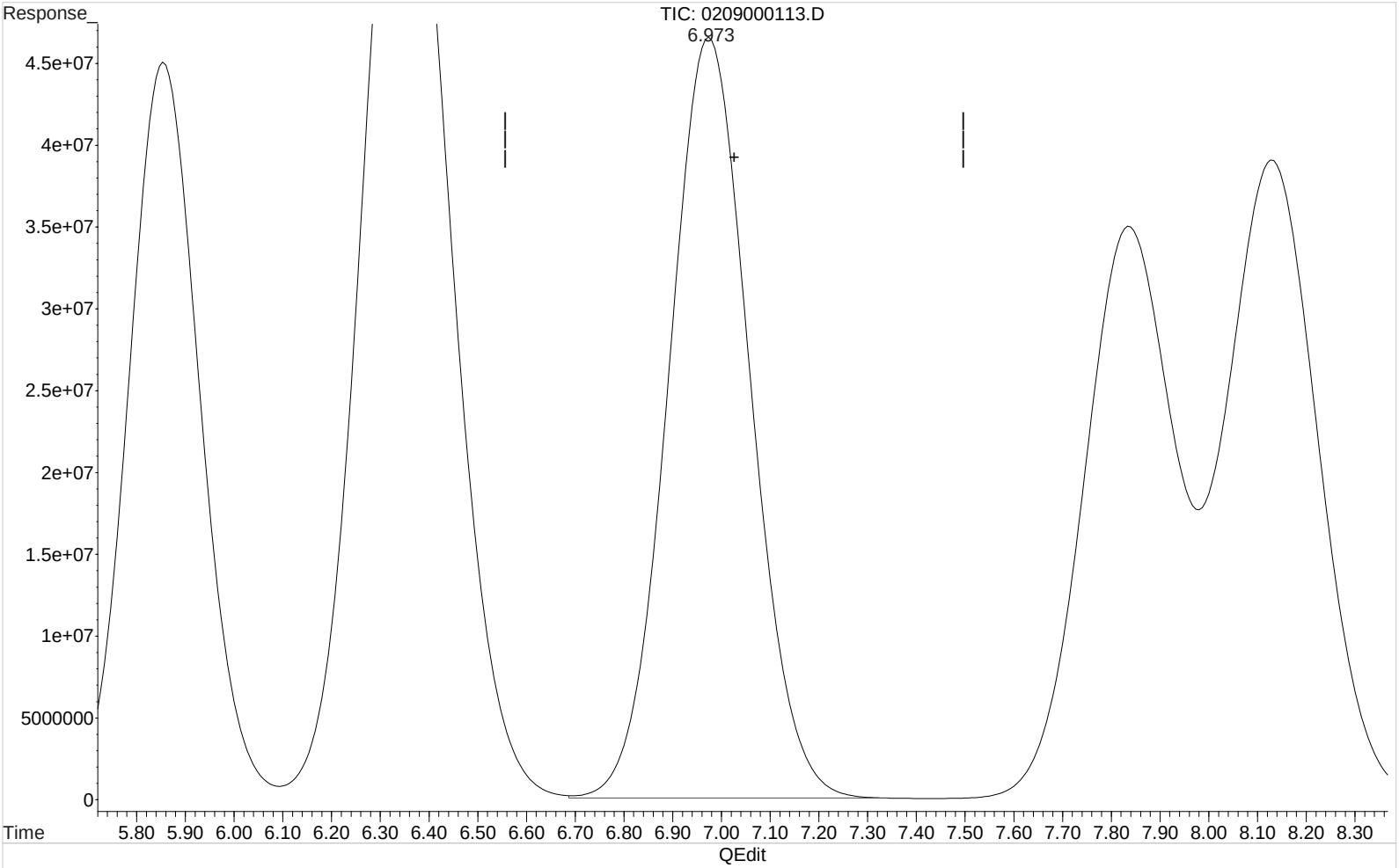
(+) = Expected Retention Time

(b) (6)
1st /13/17
2nd /17/17

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(8) 3-NT (T)

6.973min 0.000 ug/L m

response 543775210

Manual Integration:

After

BLC

02/13/17

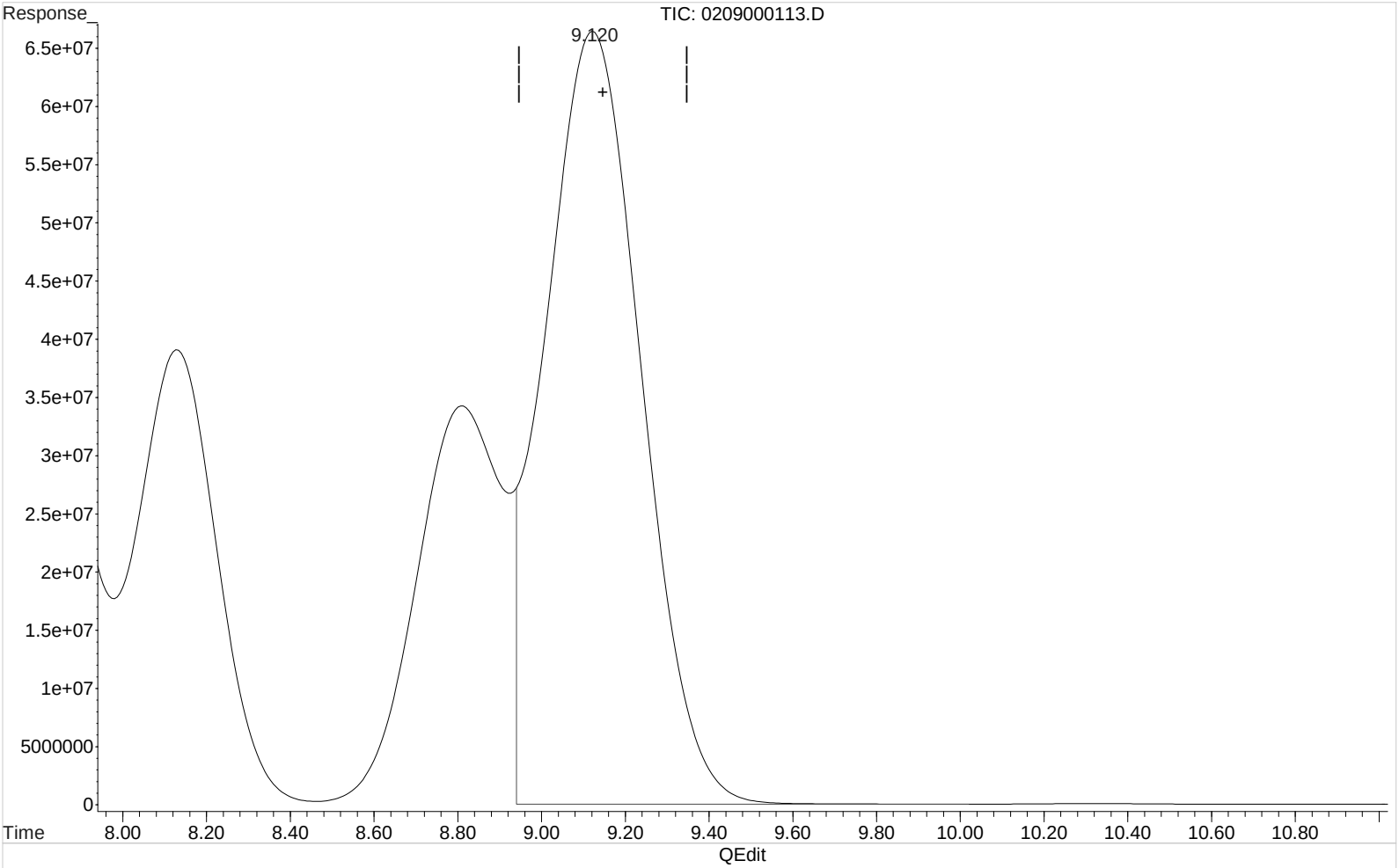
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(9) 1,3-DNB (T)

9.120min 0.000 ug/L

response 1060177232

Manual Integration:

Before

02/13/17

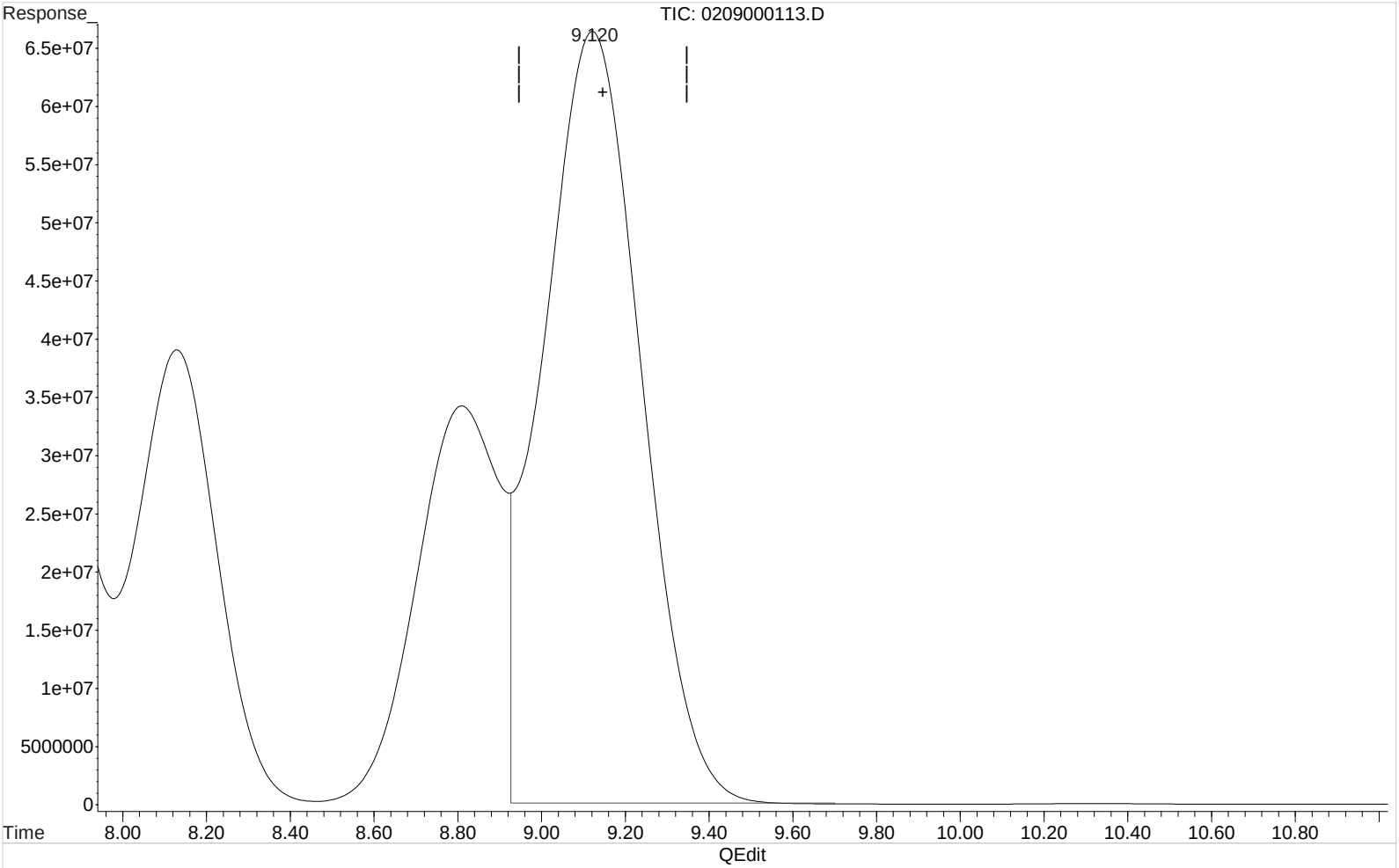
(+) = Expected Retention Time

(b) (6)
1st [redacted] 2/13/17
2nd [redacted] 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(9) 1,3-DNB (T)

9.120min 0.000 ug/L m

response 1077373089

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000114.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:09:06 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:23:50 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
11) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
	Target Compounds					
1) T	HMX	0.000	0	N.D.	ug/L	
2) T	RDX	0.000	0	N.D.	ug/L	
3) T	Nitrobenzene	0.000	0	N.D.	ug/L	
4) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L	
5) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L	d
6) T	2-NT	0.000	0	N.D.	ug/L	d
7) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L	d
8) T	3-NT	0.000	0	N.D.	ug/L	d
9) T	1,3-DNB	0.000	0	N.D.	ug/L	
10) T	4-NT	0.000	0	N.D.	ug/L	d
12) T	2,6-DNT	0.000	0	N.D.	ug/L	d
13) T	2,4-DNT	0.000	0	N.D.	ug/L	d
14) T	Tetryl	0.000	0	N.D.	ug/L	d
15) T	1,3,5-TNB	0.000	0	N.D.	ug/L	
16) T	2,4,6-TNT	0.000	0	N.D.	ug/L	

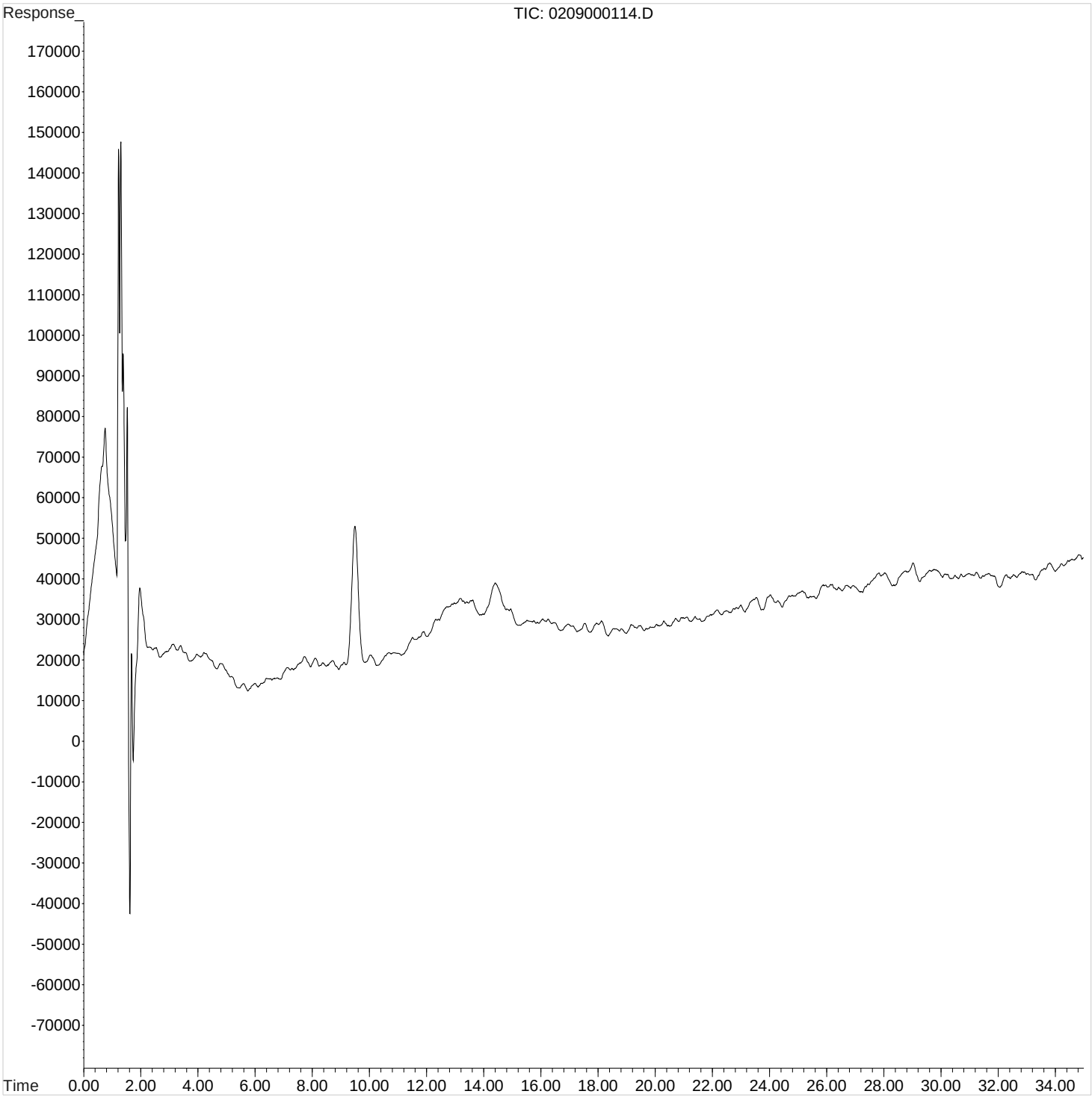
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000114.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:09:06 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:23:50 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:22:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds							
11)	S	1-Chloro-3-Nitrobenzene	8.127	24836791	943.788	ug/L	
Target Compounds							
1)	T	HMX	2.553	15189672	974.540	ug/L	
2)	T	RDX	2.800	16803386	903.368	ug/L	m
3)	T	Nitrobenzene	4.480	34528657	928.103	ug/L	m
4)	T	3,5-Dinitroaniline	5.240	43014873	925.365	ug/L	
5)	T	4-Amino-2,6-DNT	4.867	29345653	921.272	ug/L	
6)	T	2-NT	5.853	21859915	928.032	ug/L	m
7)	T	2-Amino-4,6-DNT	6.353	38582149	914.519	ug/L	m
8)	T	3-NT	6.973	25230895	902.935	ug/L	
9)	T	1,3-DNB	9.120	51447002	919.544	ug/L	m
10)	T	4-NT	7.833	21970507	942.506	ug/L	
12)	T	2,6-DNT	8.800	24072617	983.755	ug/L	
13)	T	2,4-DNT	14.787	47663620	906.089	ug/L	
14)	T	Tetryl	12.960	26728022	910.339	ug/L	
15)	T	1,3,5-TNB	19.780	38519494	914.207	ug/L	
16)	T	2,4,6-TNT	20.760	35648669	918.724	ug/L	

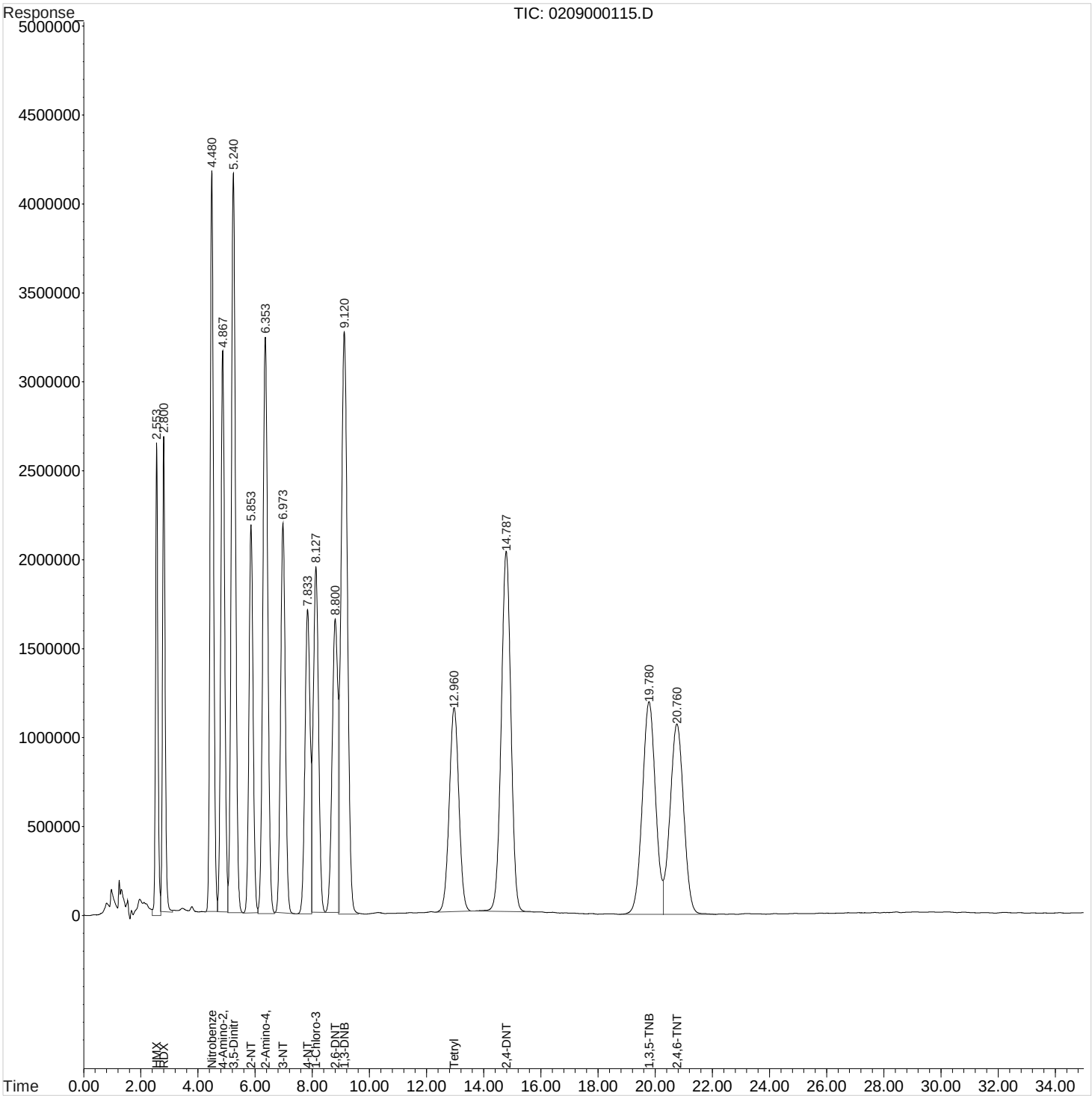
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:22:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



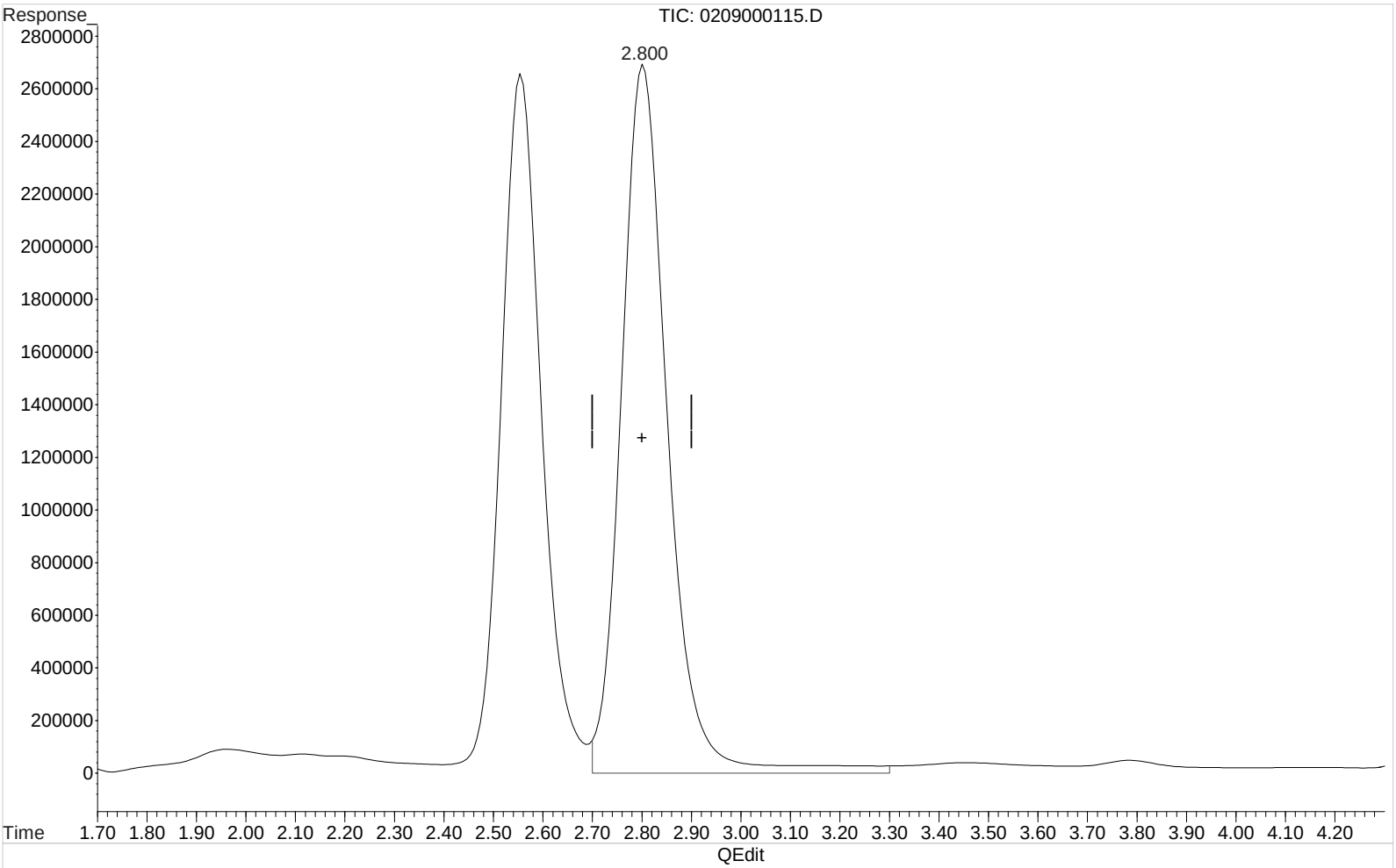
Quantitation Report (Qedit)

(b) (6)
1st 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(2) RDX (T)

2.800min 943.070 ug/L

response 17541874

Manual Integration:

Before

02/13/17

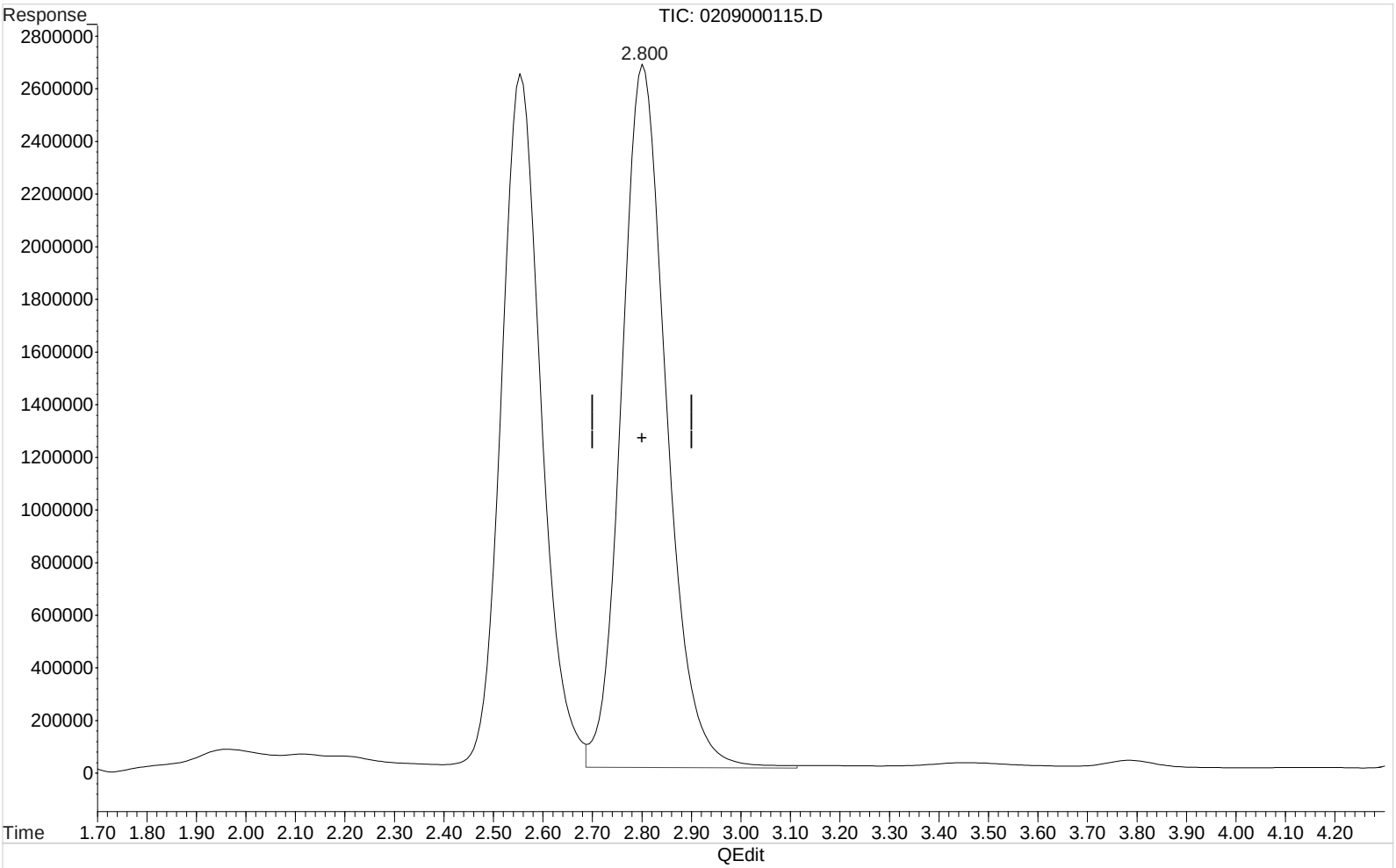
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.800min 903.368 ug/L m

response 16803386

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

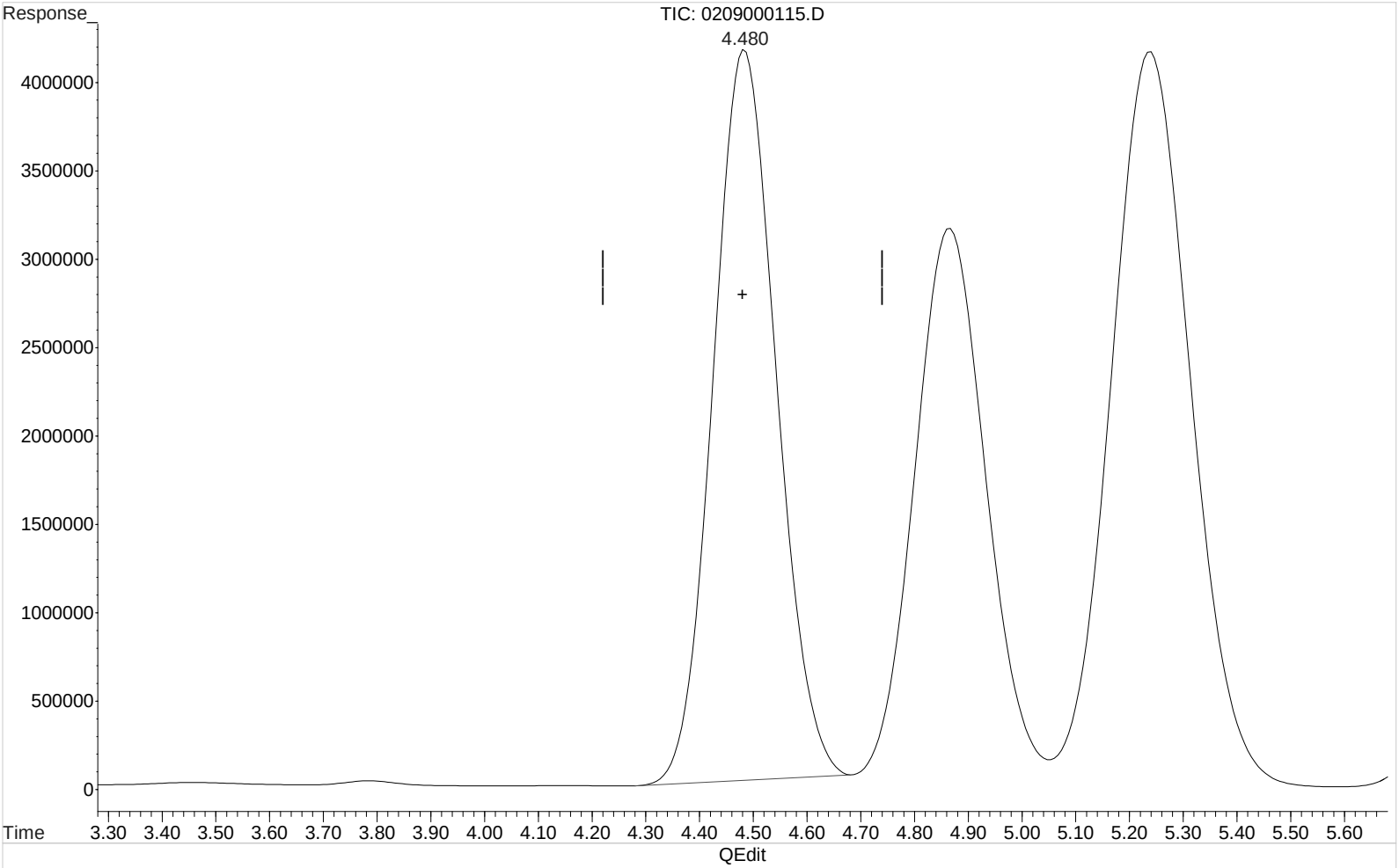
1st 02/13/17

2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(3) Nitrobenzene (T)

4.480min 908.645 ug/L

response 33804752

Manual Integration:

Before

02/13/17

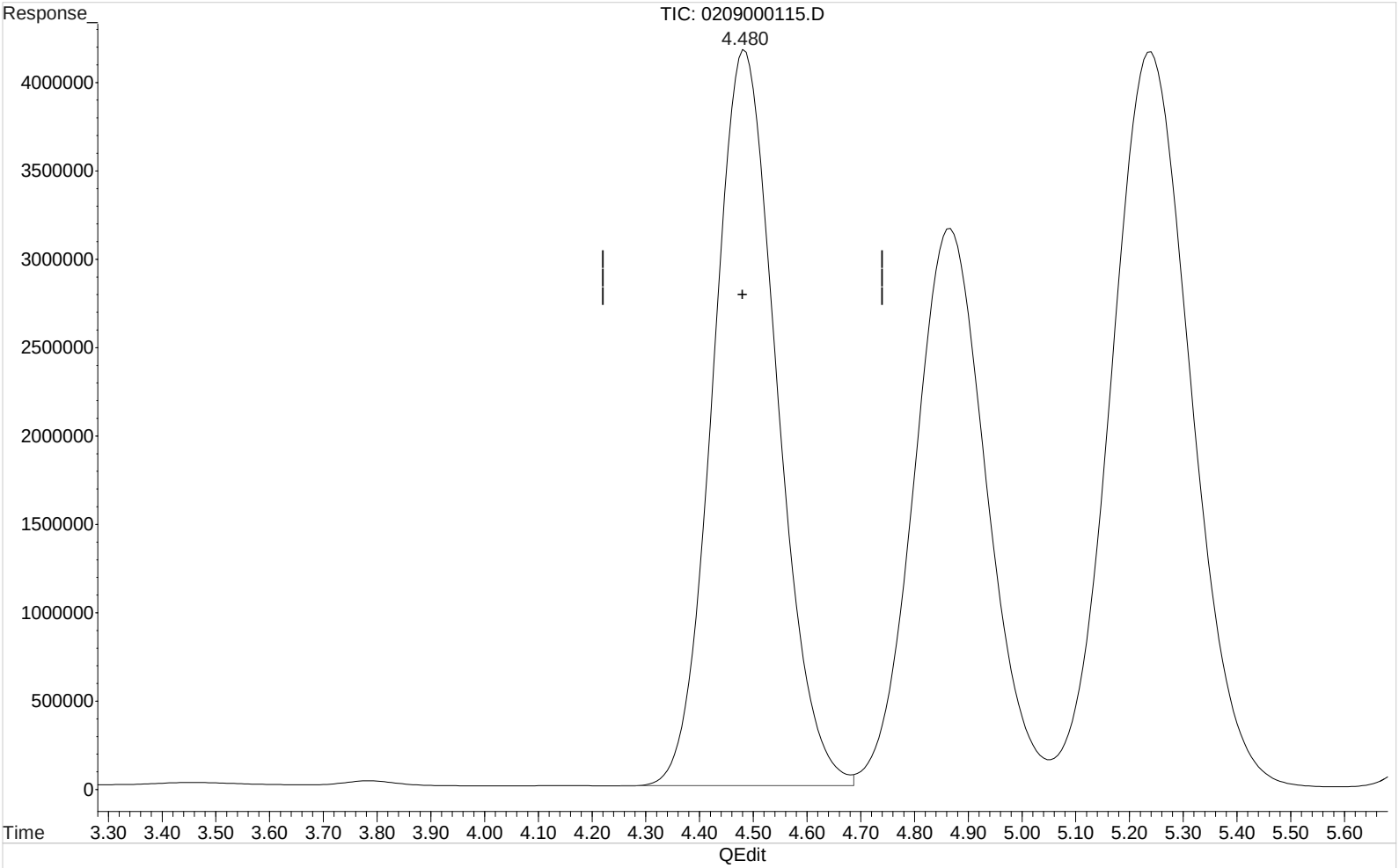
(+) = Expected Retention Time

(b) (6)
1st 2/13/17
2n 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.480min 928.103 ug/L m

response 34528657

Manual Integration:

After

BLC

02/13/17

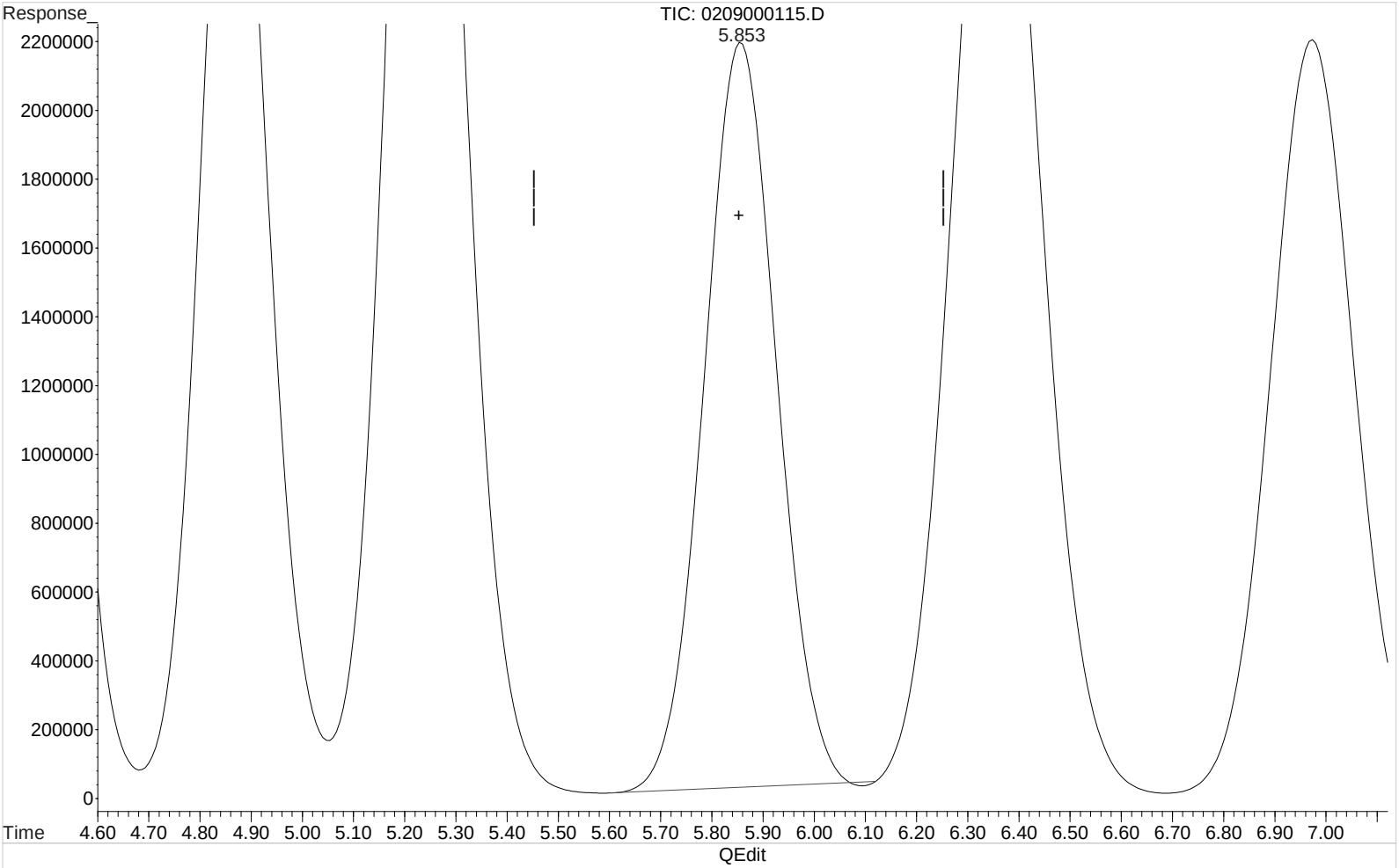
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.853min 906.205 ug/L

response 21345796

Manual Integration:

Before

02/13/17

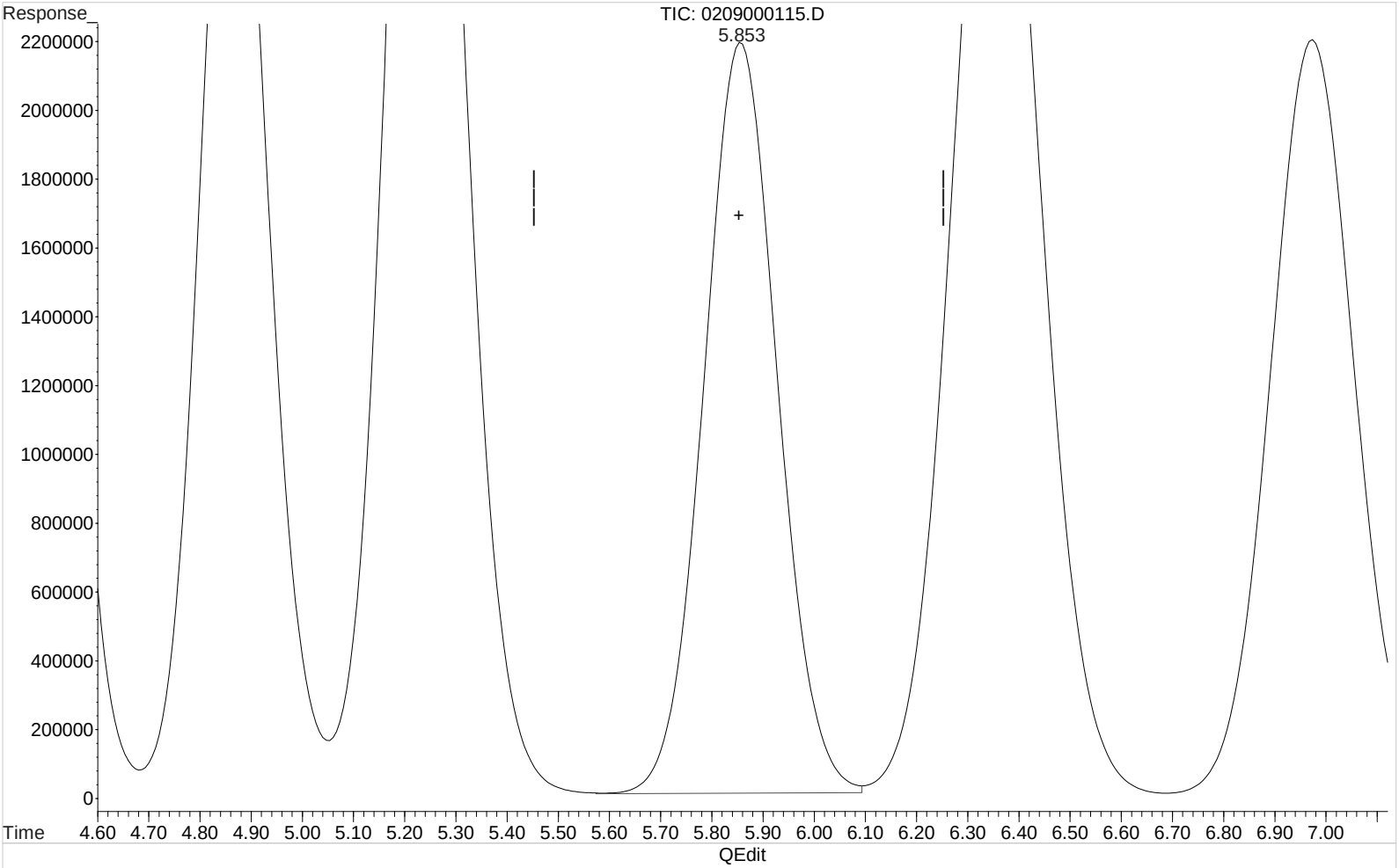
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.853min 928.032 ug/L m

response 21859915

Manual Integration:

After

BLC

02/13/17

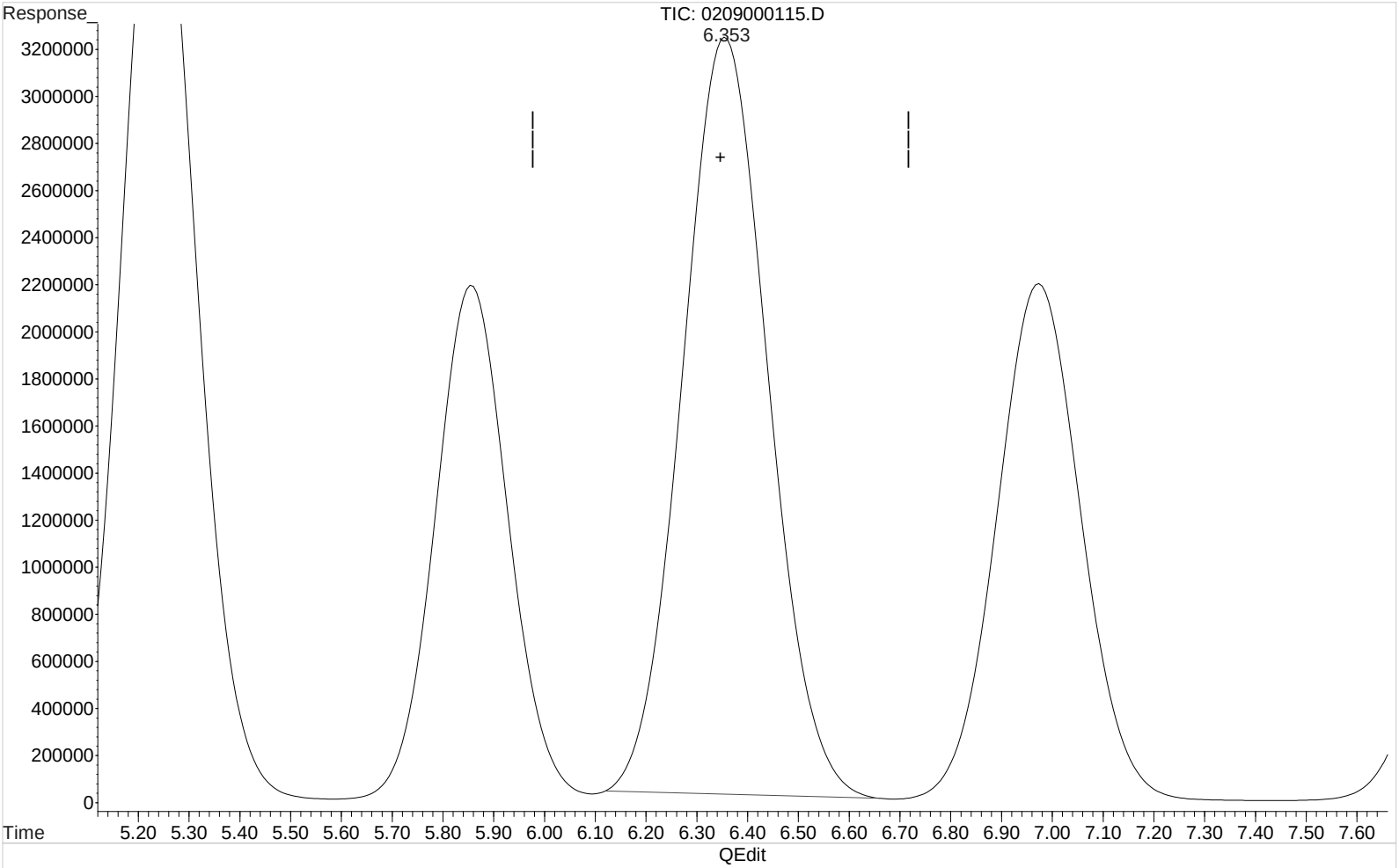
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(7) 2-Amino-4,6-DNT (T)

6.353min 895.482 ug/L

response 37779010

Manual Integration:

Before

02/13/17

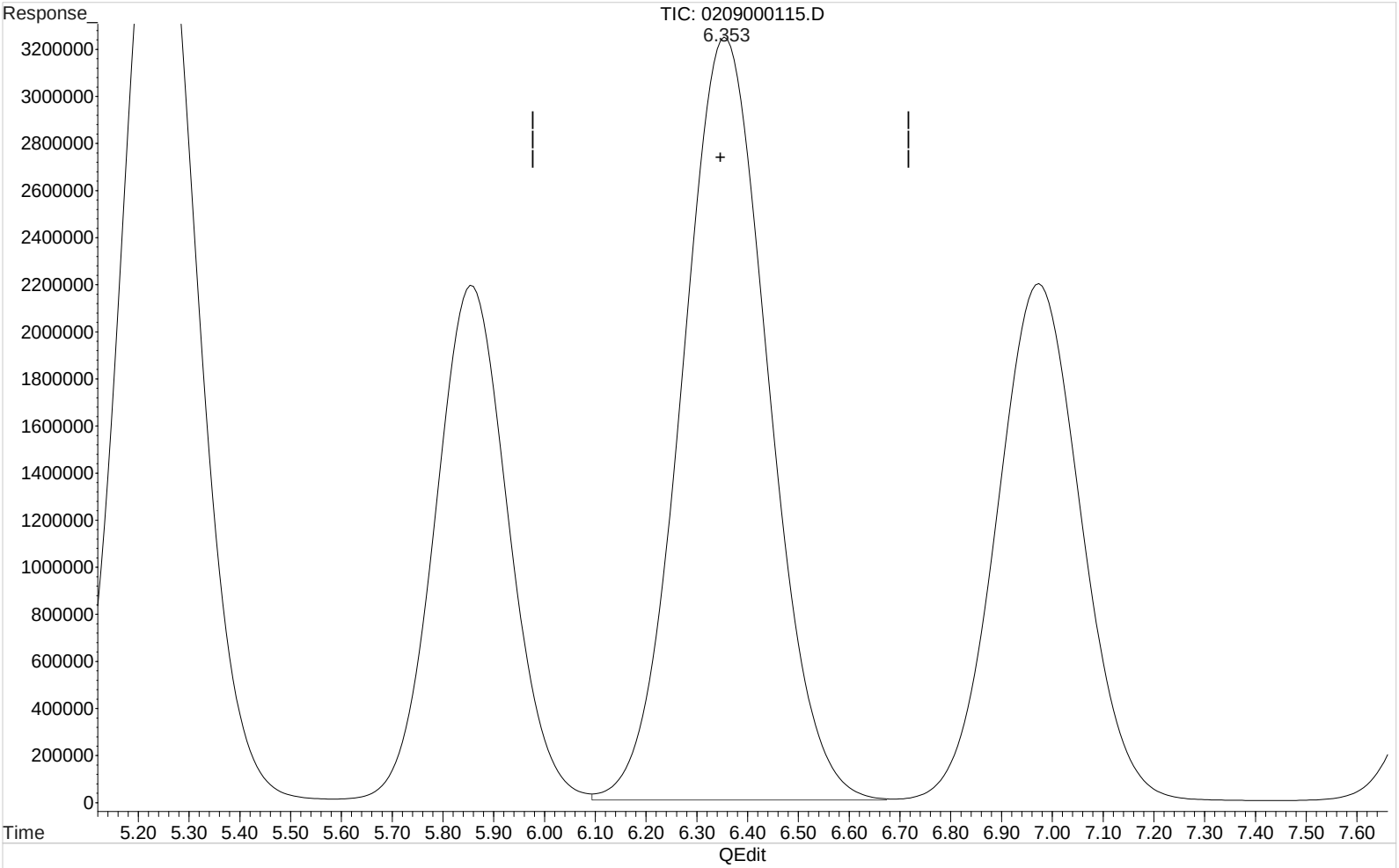
(+) = Expected Retention Time

(b)
1st (6) 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.353min 914.519 ug/L m

response 38582149

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

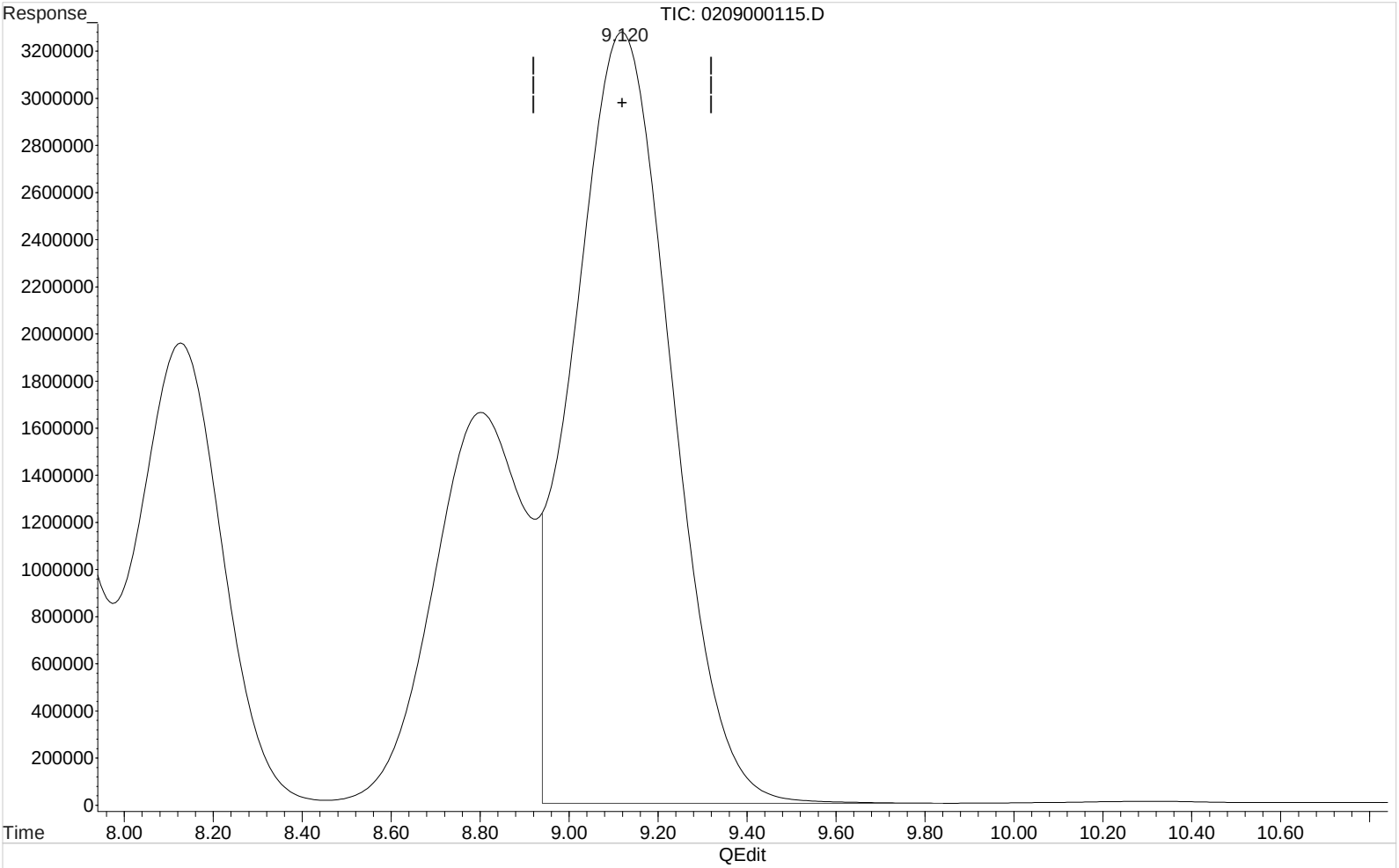
Quantitation Report (Qedit)

1st (b) (6) 2/13/17
2nd [redacted] 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(9) 1,3-DNB (T)

9.120min 894.233 ug/L

response 50030932

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

(b)(6)

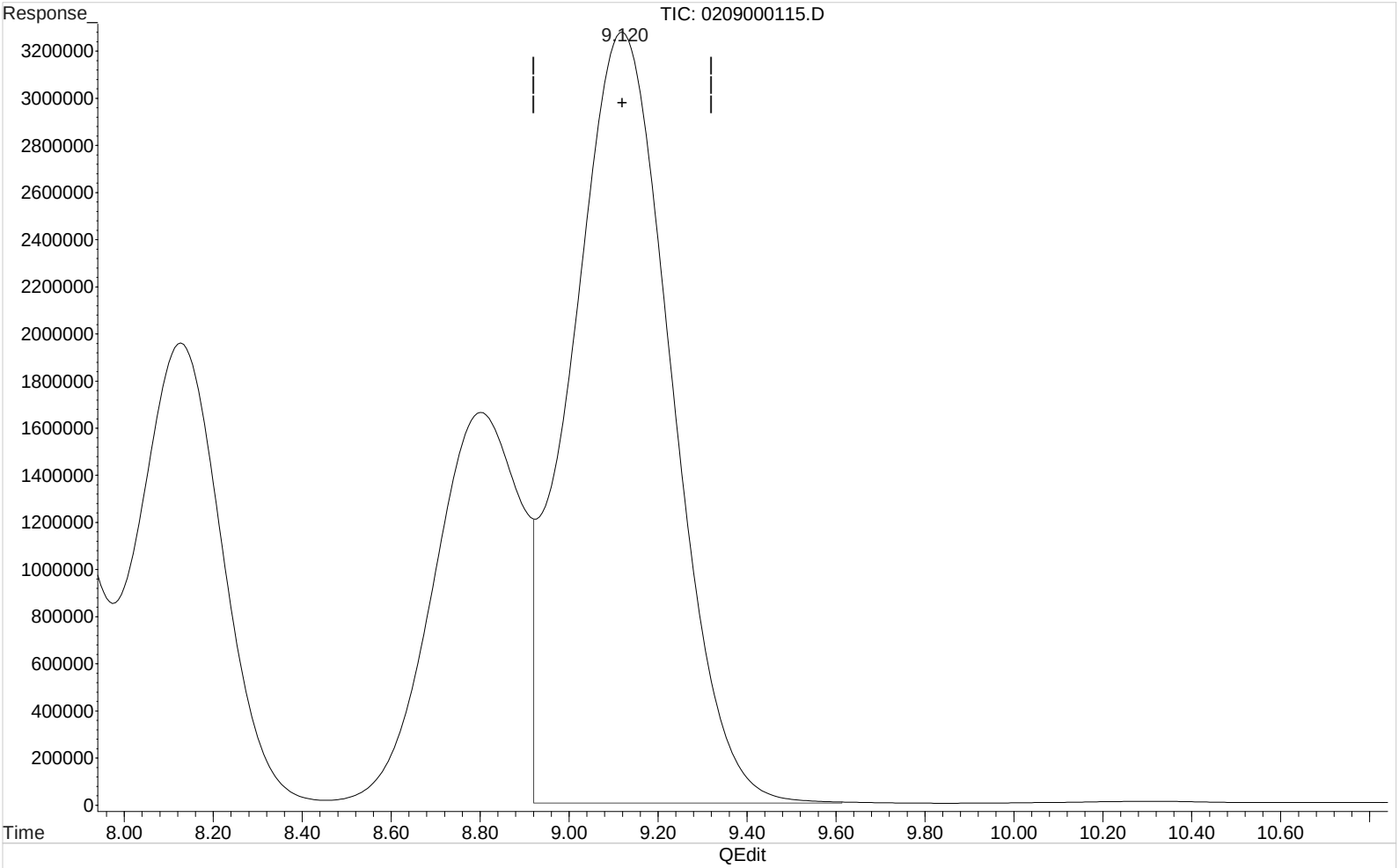
1st 02/13/17

2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(9) 1,3-DNB (T)

9.120min 919.544 ug/L m

response 51447002

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Date: 12/7/2016 **ALS Kelso, WA** **ICAL Date:** 12/7/2016

By: AE **Injection Log** **ICAL ID:** (254)-15062 (210)-15063

Stealth ID: n/a **LC10 - Agilent 1260** **LIMS ID:** **2nd Review:** n/a (b) (6)

Column: Phen. Synergi Hydro-RP 80A 250x4.6 mm SN 759076-19

Mobile Phases A: MeOH Lot#: 56175 **B:** ACN Lot#: 56165 **C:** H_2O Lot#: 56006 **D:**

	Sample Name	File Name	Method	Dilution	R	Comments
1		12070000101	8330BX+DIAMINOS.M	NA		
2		12070000102	8330BX+DIAMINOS.M	NA		
3		1207000202	8330BX+DIAMINOS.M	NA		
4		1207000203	8330BX+DIAMINOS.M	NA		
5		1207000204	8330BX+DIAMINOS.M	NA		
6		1207000205	8330BX+DIAMINOS.M	NA		
7		1207000206	8330BX+DIAMINOS.M	NA		
8		1207000207	8330BX+DIAMINOS.M	NA		
9		1207000303	8330BX+DIAMINOS.M	NA		
10		1207000404	8330BX+DIAMINOS.M	NA		
11		1207000405	8330BX+DIAMINOS.M	NA		
12		1207000505	8330BX+DIAMINOS.M	NA		
13		1207000601	8330BX+DIAMINOS.M	NA		
14		1207000602	8330BX+DIAMINOS.M	NA		
15		1207000603	8330BX+DIAMINOS.M	NA		
16		1207000701	8330BX+DIAMINOS.M	NA		
17		1207000702	8330BX+DIAMINOS.M	NA		
18	IB	1207000703	8330BX+DIAMINOS.M	NA	X	
19	16-OLC-01-89J 20 PPB	1207000704	8330BX+DIAMINOS.M	NA	X	
20	16-OLC-01-89I 50 PPB	1207000705	8330BX+DIAMINOS.M	NA	X	
21	16-OLC-01-89H 100 PPB	1207000706	8330BX+DIAMINOS.M	NA	X	
22	16-OLC-01-89G 200 PPB	1207000707	8330BX+DIAMINOS.M	NA	X	
23	16-OLC-01-89F 500 PPB	1207000708	8330BX+DIAMINOS.M	NA	X	
24	16-OLC-01-89E 1000 PPB	1207000709	8330BX+DIAMINOS.M	NA	X	
25	16-OLC-01-89D 2000 PPB	1207000710	8330BX+DIAMINOS.M	NA	X	
26	16-OLC-01-89C 5000 PPB	1207000711	8330BX+DIAMINOS.M	NA	X	
27	16-OLC-01-89B 10000 PPB	1207000712	8330BX+DIAMINOS.M	NA	X	
28	16-OLC-01-89A 20000 PPB	1207000713	8330BX+DIAMINOS.M	NA	X	
29	IB	1207000714	8330BX+DIAMINOS.M	NA	X	
30	16-OLC-01-89K 10000 PPB ICV	1207000715	8330BX+DIAMINOS.M	NA	X	

(Cal not valid for Diaminos)

R:\OLC\Injection Logs\LC10 2016\INJLOG_LC10_xl_120716_ICAL

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000703.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 19:36:44 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:14:56 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:09:42 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
Target Compounds						
1) T	Nitroglycerin	0.000	0	N.D.	ug/L	d
2) T	PETN	27.763	156171	8.404	ug/L	

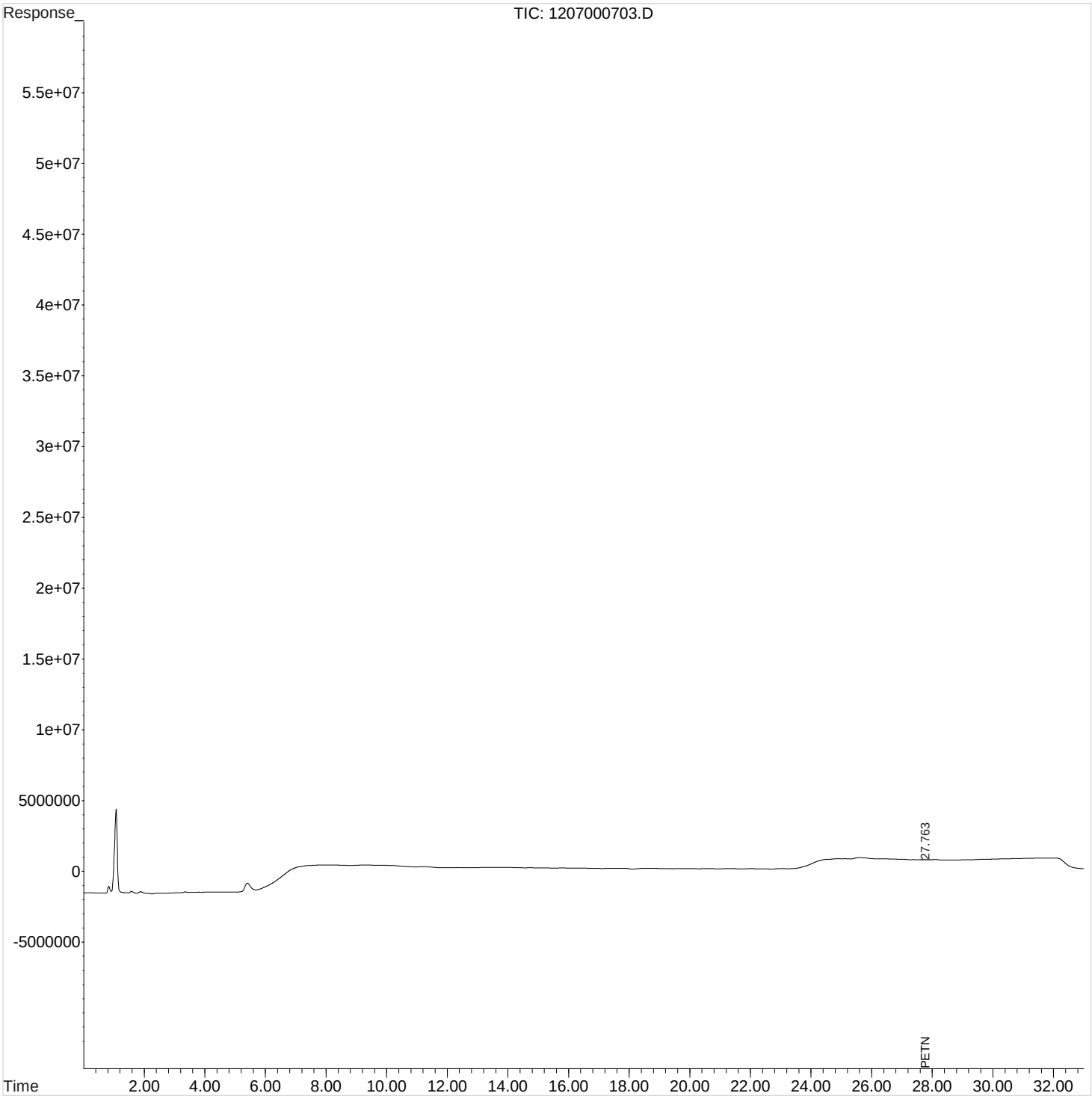
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000703.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 19:36:44 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:14:56 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:09:42 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:04 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.707	3217434	NoCal	ug/L	m
Target Compounds						
1) T	Nitroglycerin	16.654	1445069	NoCal	ug/L	m
2) T	PETN	27.787	1323782	NoCal	ug/L	m

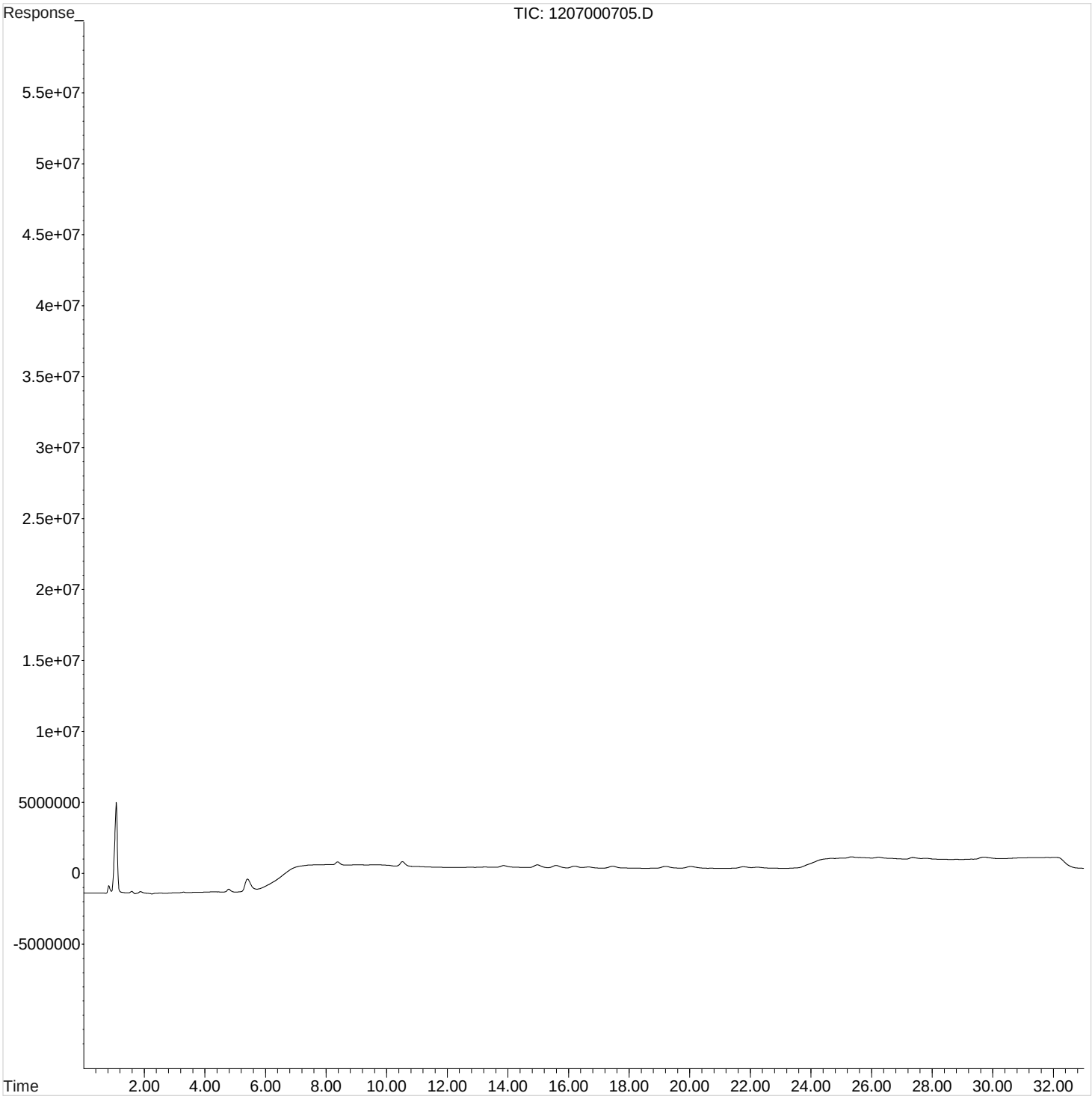
(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)
1st 2/08/16
2n 2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:04 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

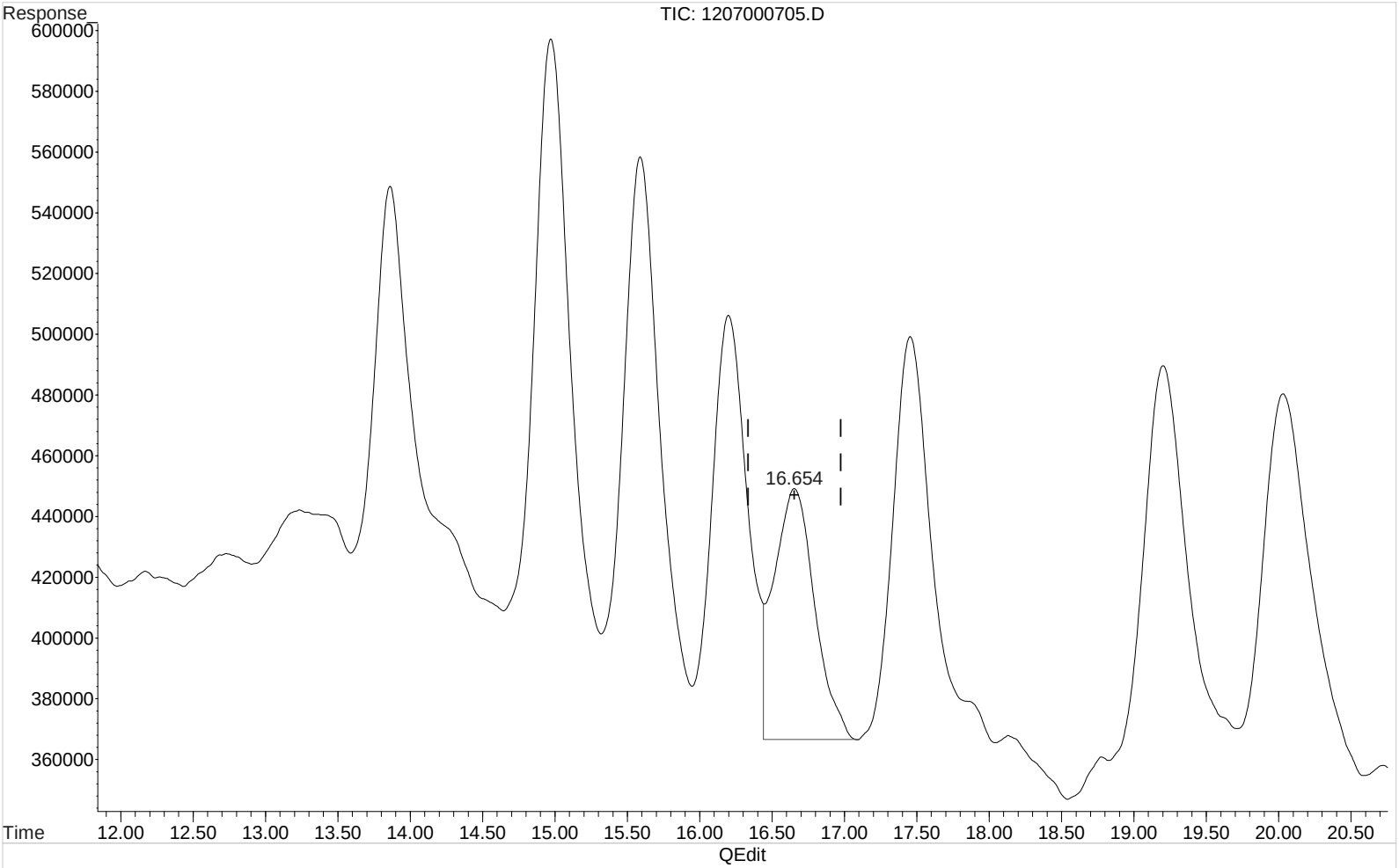


(b)(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:26:17 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.654min 0.000 ug/L

response 1614875

Manual Integration:

Before

12/08/16

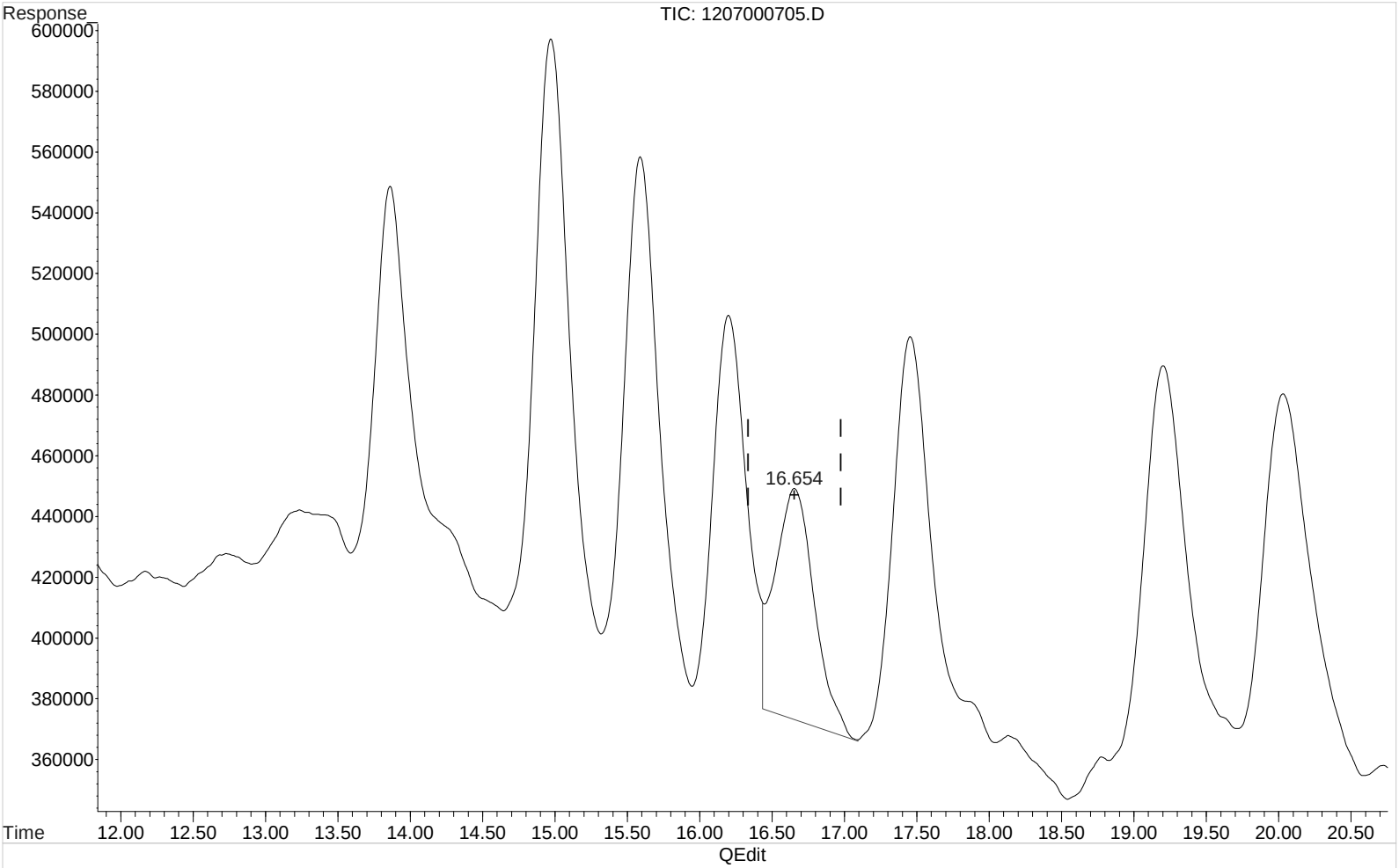
(+) = Expected Retention Time

1st (b) (6) 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:26:17 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.654min 0.000 ug/L m

response 1445069

Manual Integration:

After

BLC

12/08/16

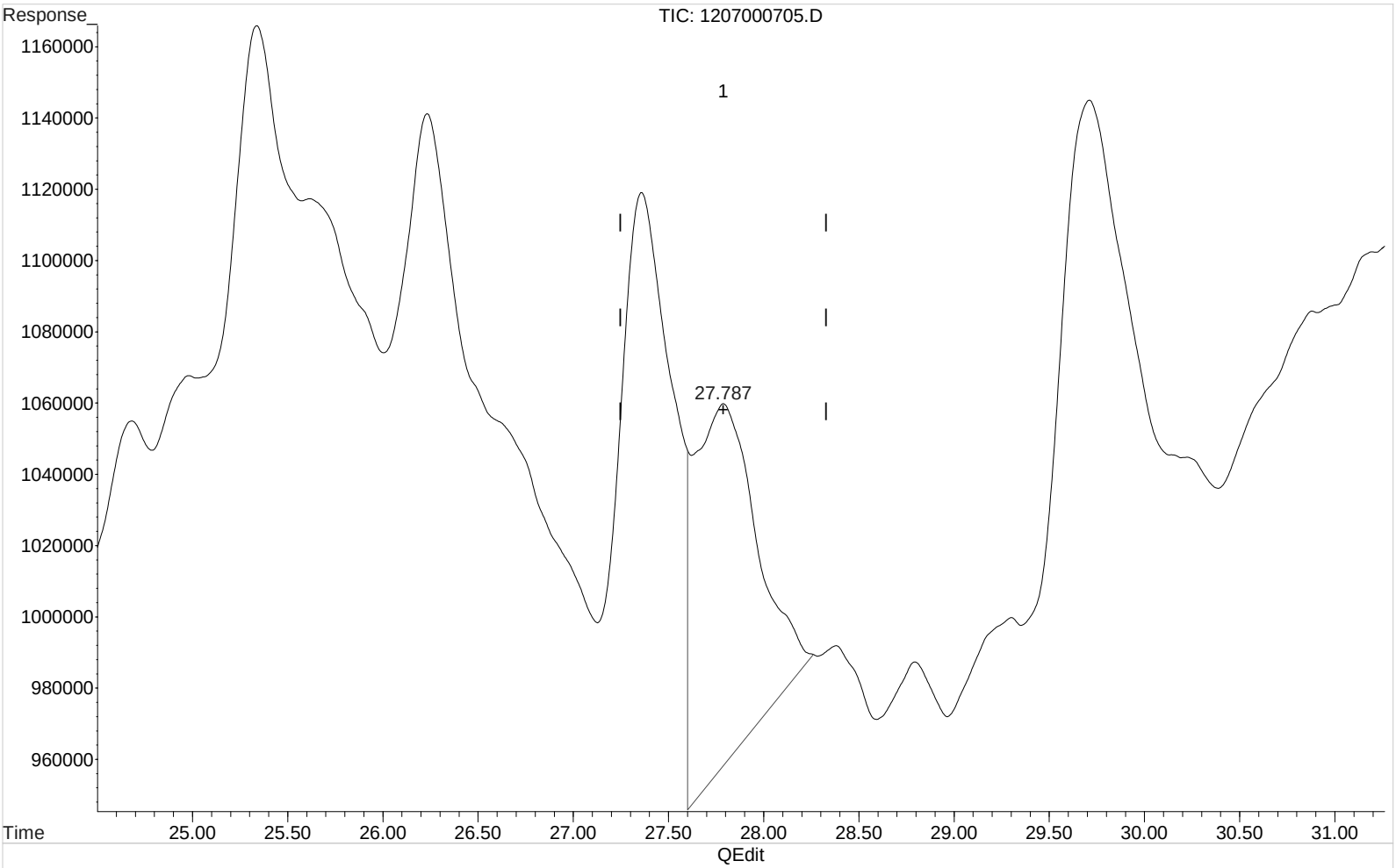
(+) = Expected Retention Time

(b) (6)
1st 12/08/16
2n 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:26:17 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.787min 0.000 ug/L

response 2332366

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b)(6)

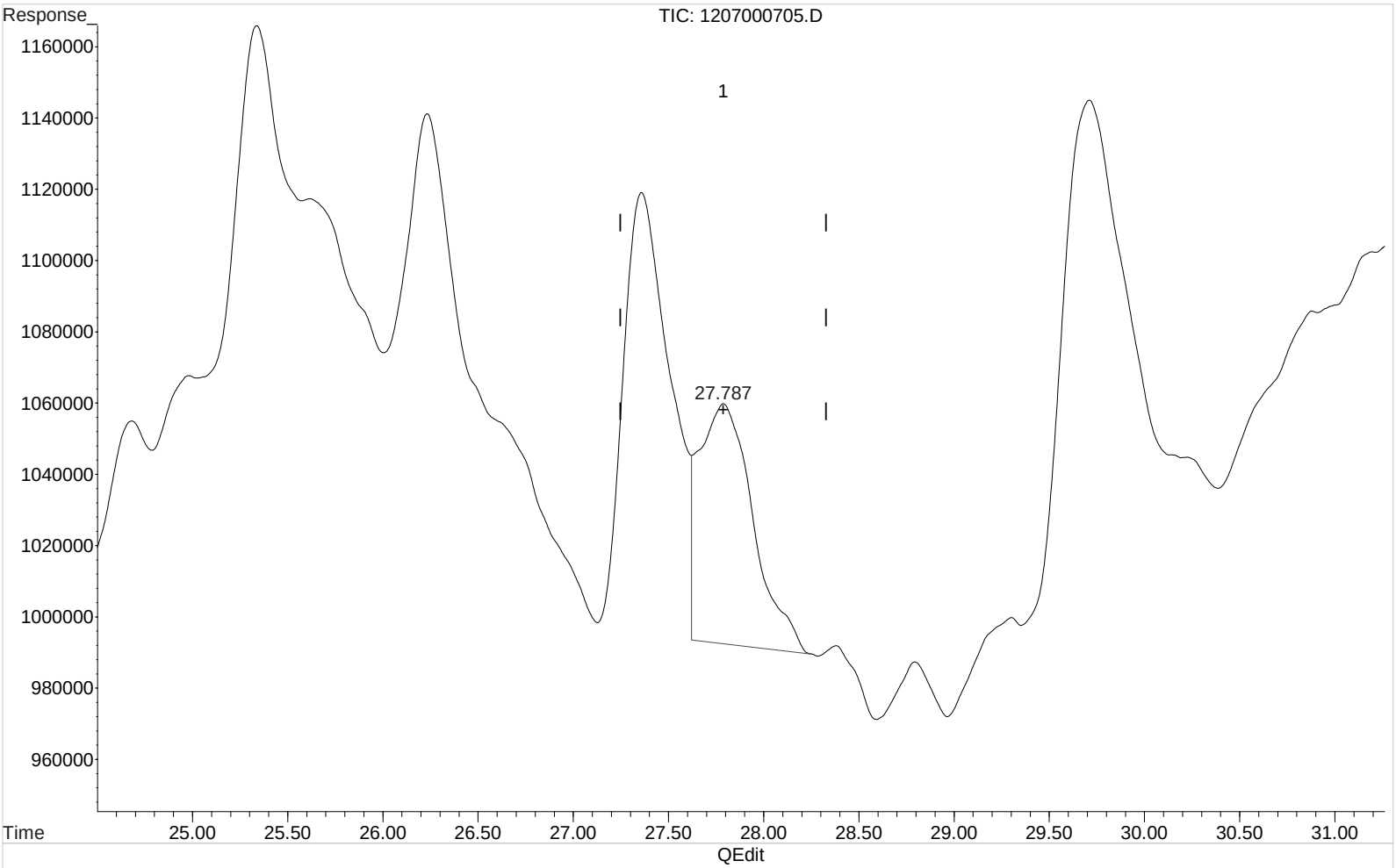
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:26:17 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.787min 0.000 ug/L m

response 1323782

Manual Integration:

After

BLC

12/08/16

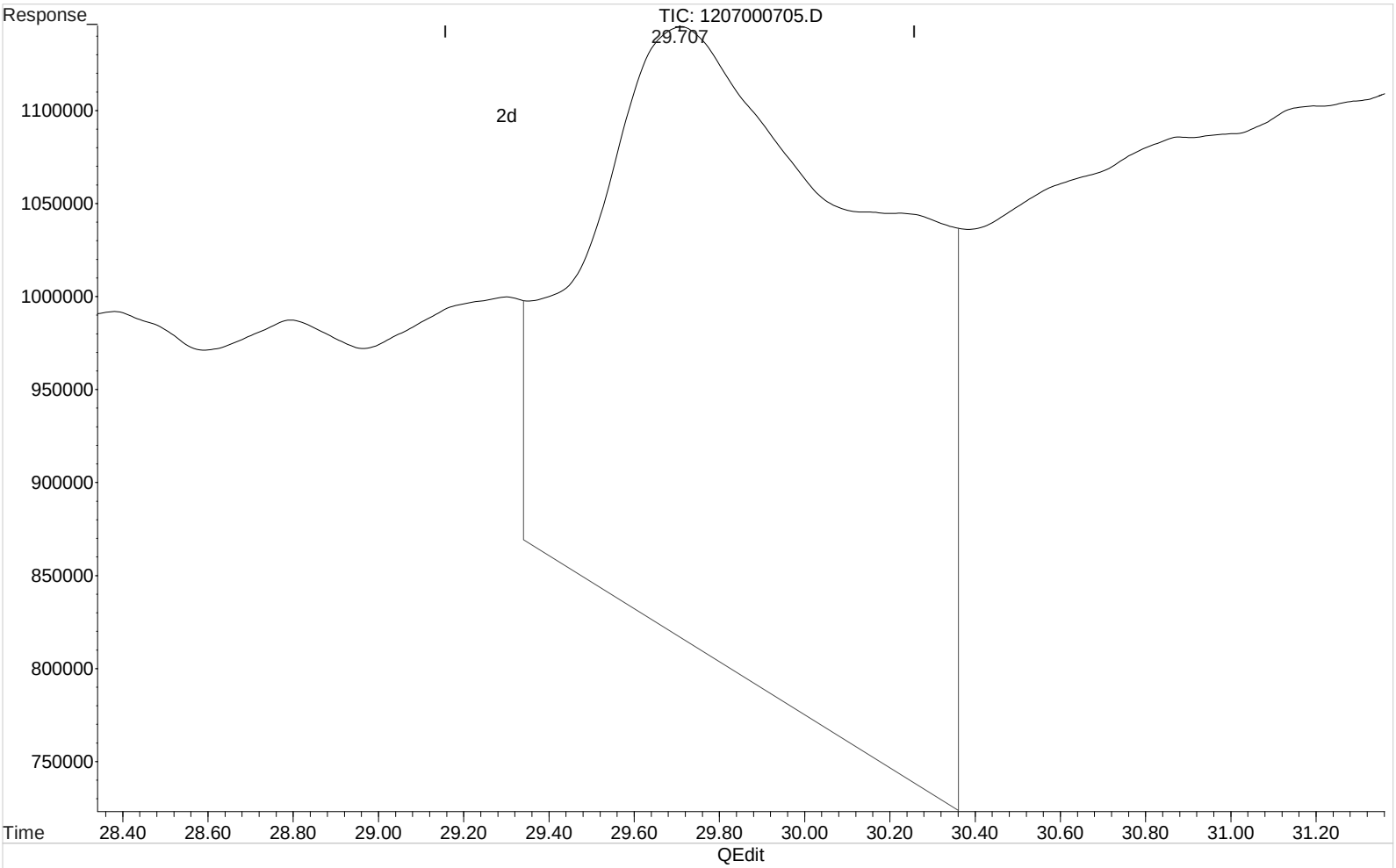
(+) = Expected Retention Time

(b)
(6)
1st 12/08/16
2n 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:26:17 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.707min 0.000 ug/L

response 16661309

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

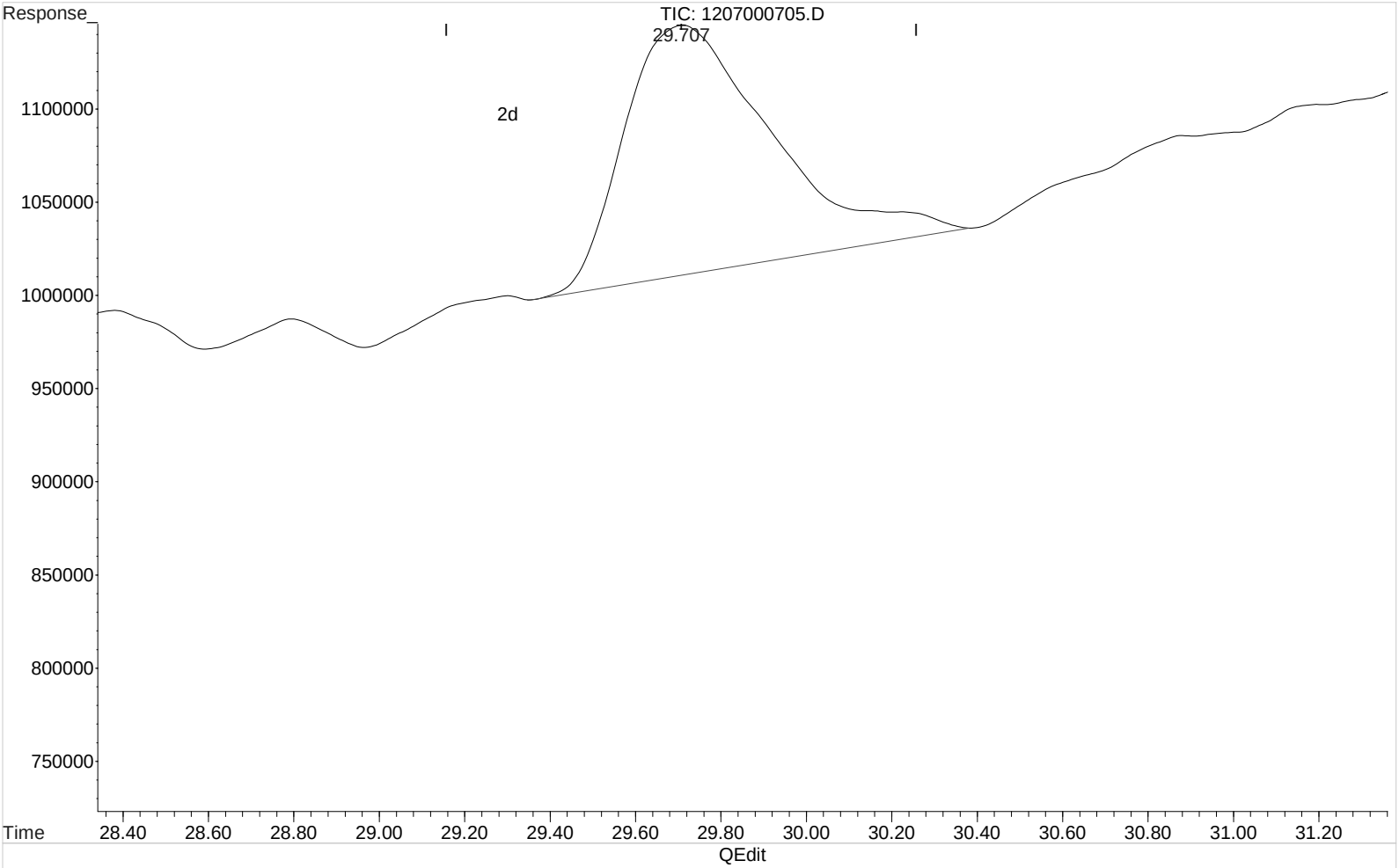
Quantitation Report (Qedit)

(b) (6)
1st 2/08/16
2n 2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:26:17 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.707min 0.000 ug/L m

response 3217434

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

1st [redacted] 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:28:57 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	29.681	5676794	88.219 ug/L m
Target Compounds				
1) T	Nitroglycerin	16.655	2024810	70.059 ug/L m
2) T	PETN	27.755	1480479	55.919 ug/L m

(f)=RT Delta > 1/2 Window (m)=manual int.

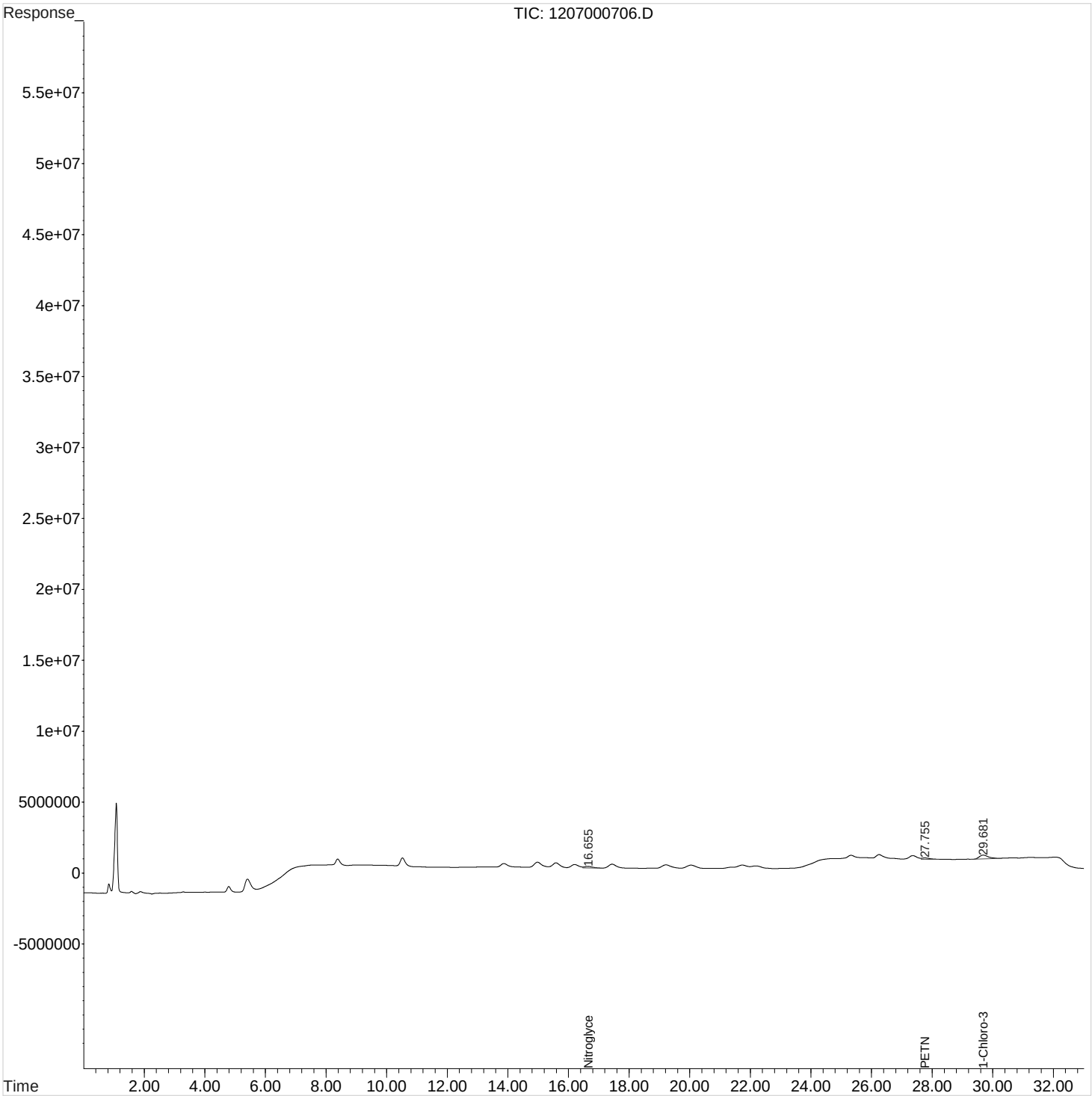
Quantitation Report (QT Reviewed)

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:28:57 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

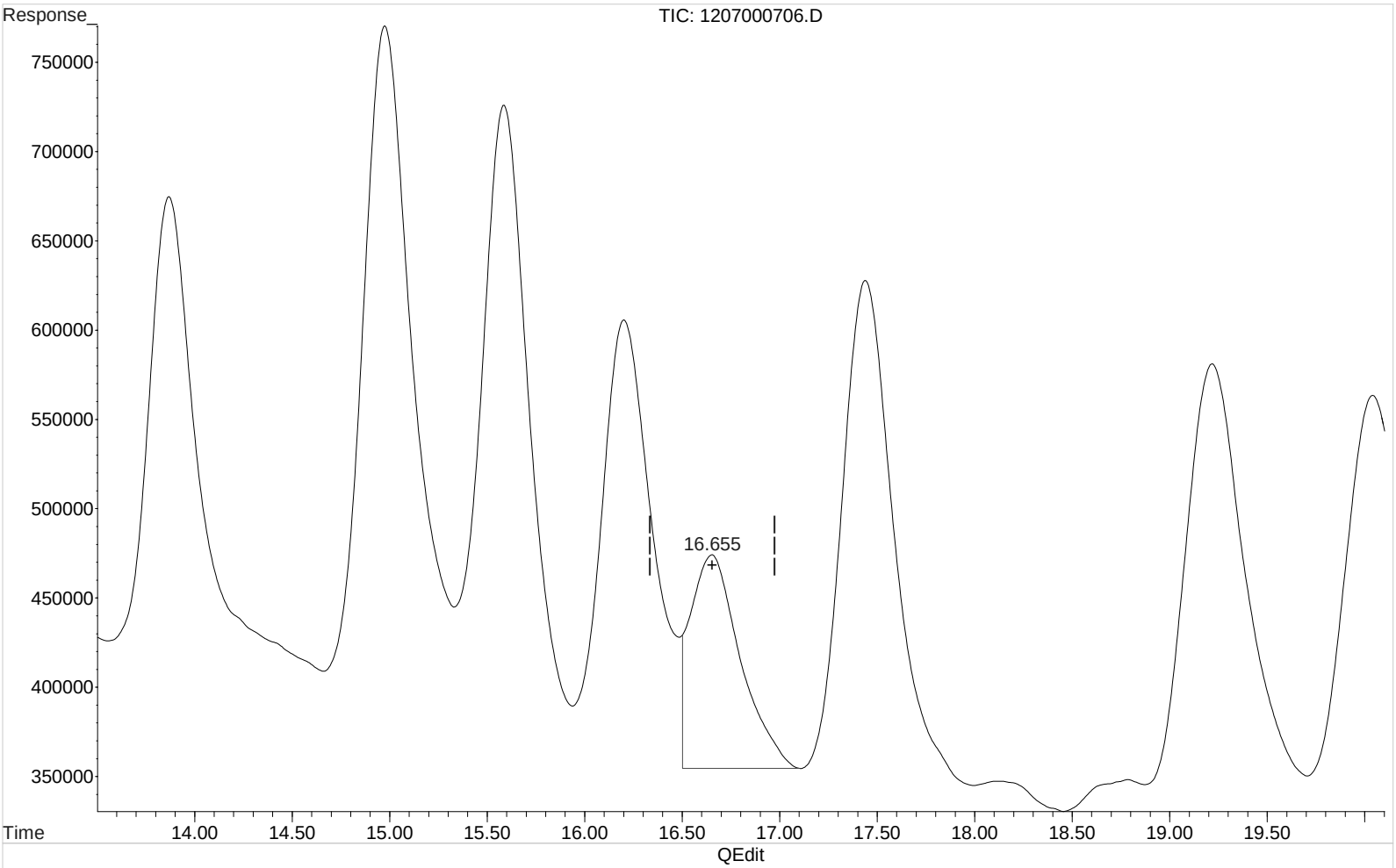


(b) (6)
1st [redacted] 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.655min 73.227 ug/L

response 2116350

Manual Integration:

Before

12/08/16

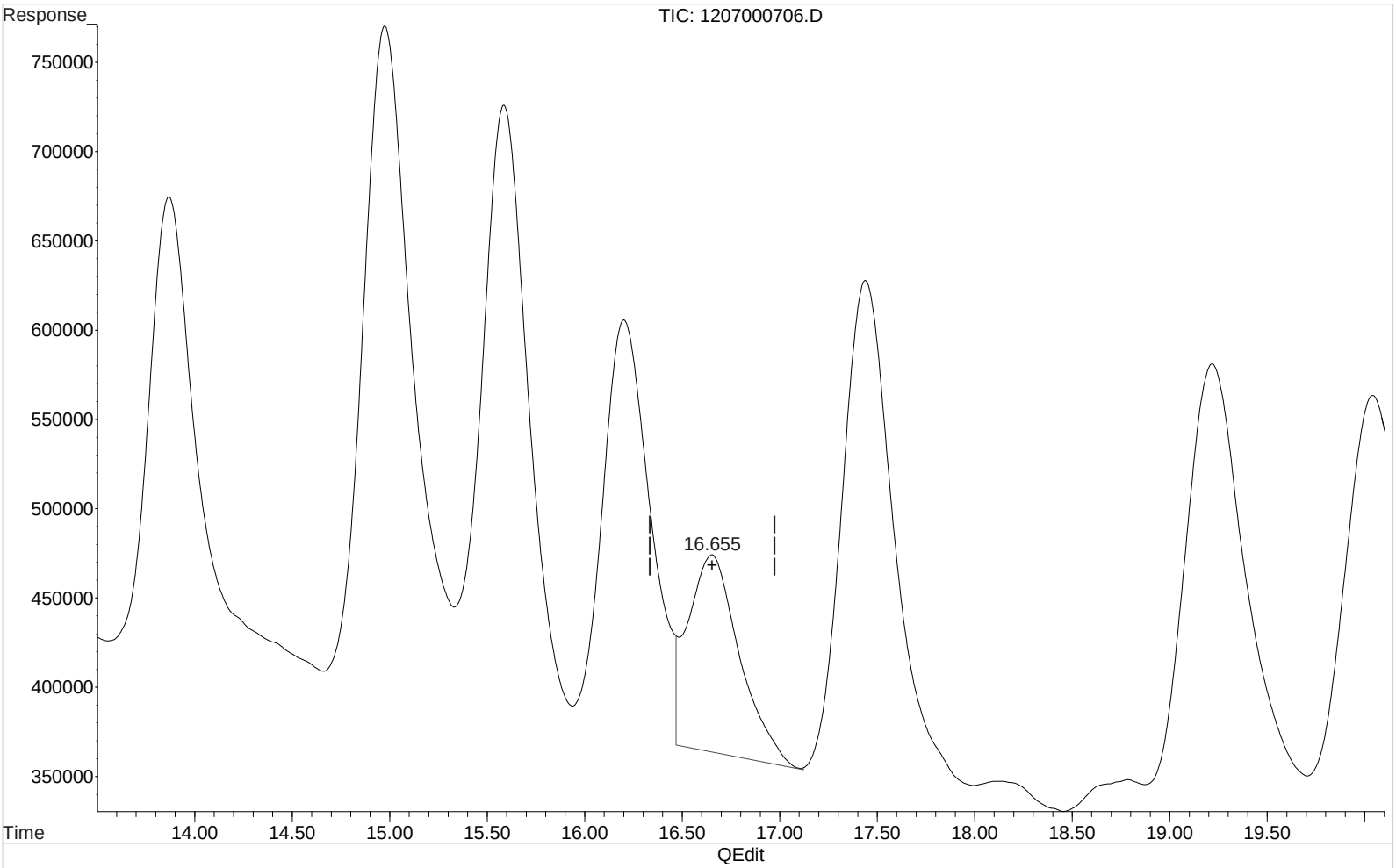
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.655min 70.059 ug/L m

response 2024810

Manual Integration:

After

BLC

12/08/16

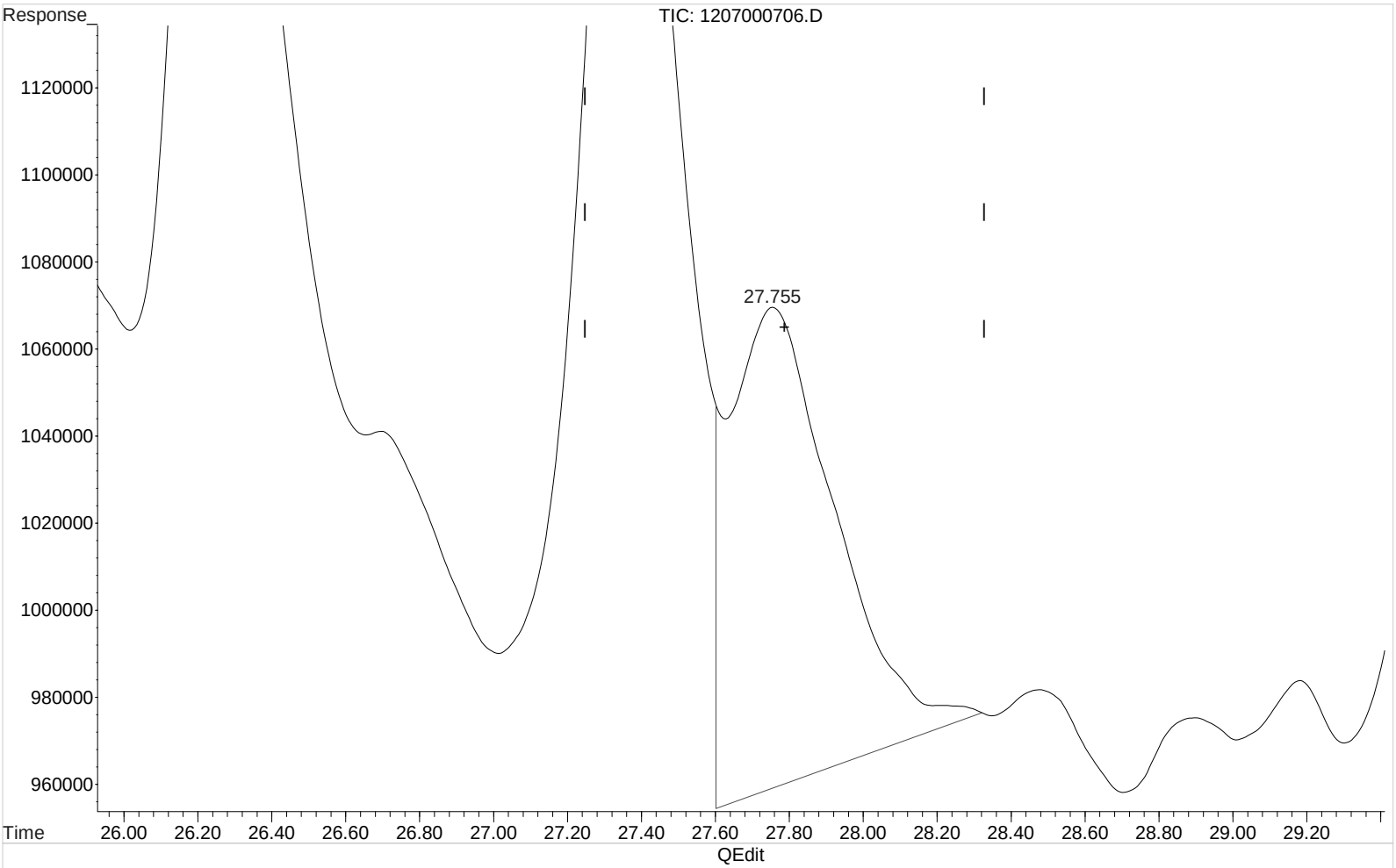
(+) = Expected Retention Time

1st (b) (6) 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.755min 83.103 ug/L

response 2200200

Manual Integration:

Before

12/08/16

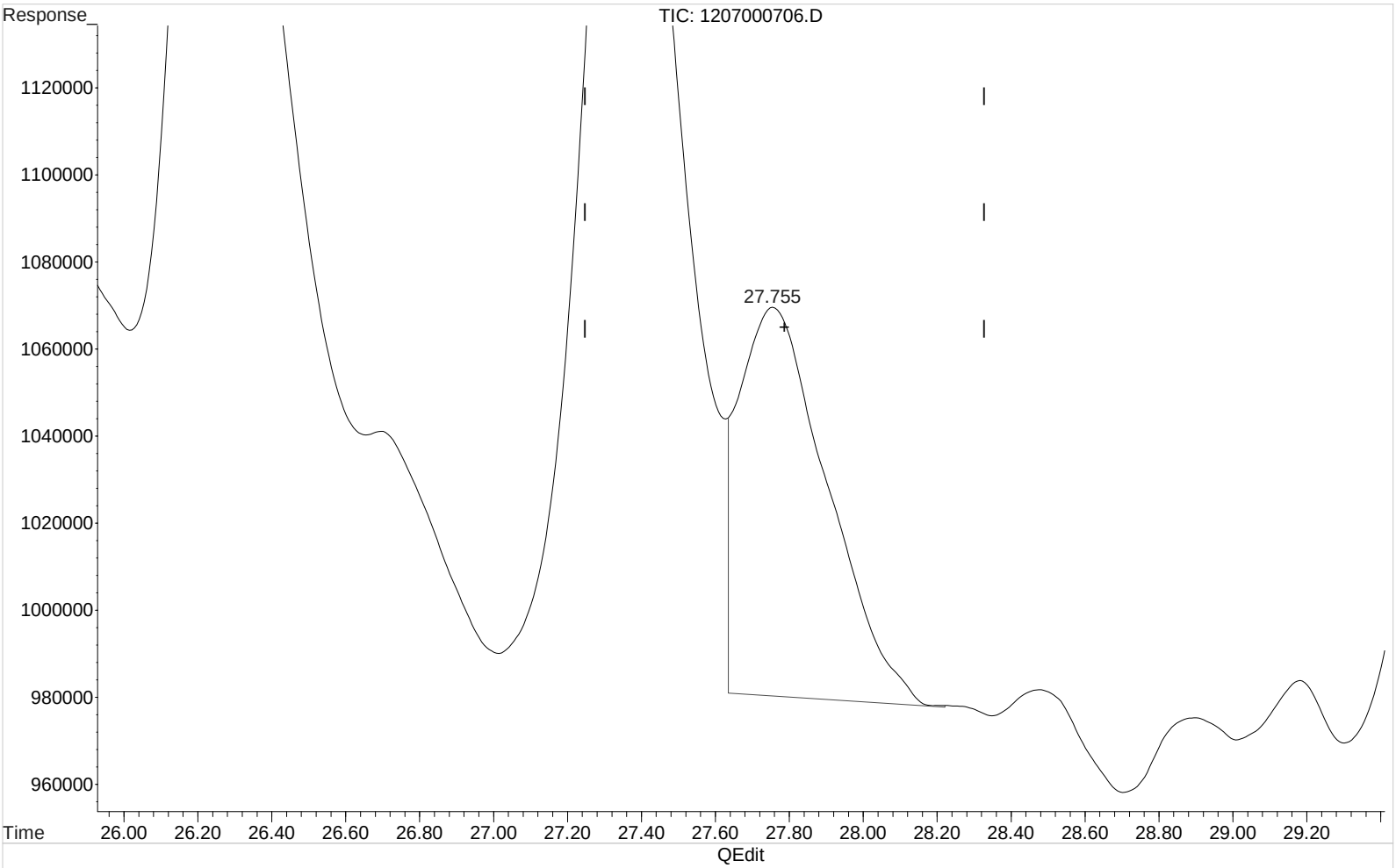
(+) = Expected Retention Time

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.755min 55.919 ug/L m

response 1480479

Manual Integration:

After

BLC

12/08/16

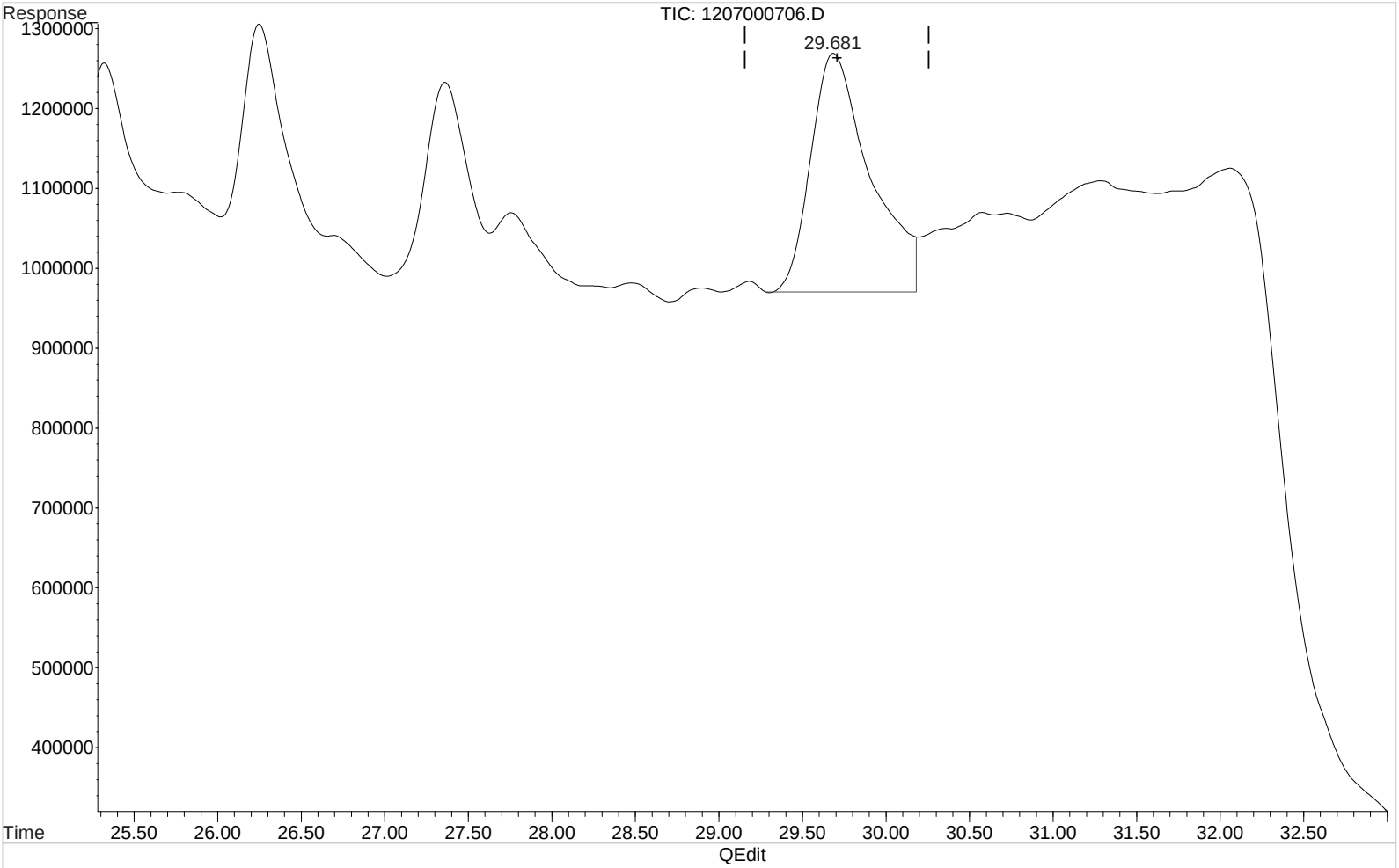
(+) = Expected Retention Time

1st (b) (6) /08/16
2nd [redacted] /09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.681min 115.316 ug/L

response 7420411

Manual Integration:

Before

12/08/16

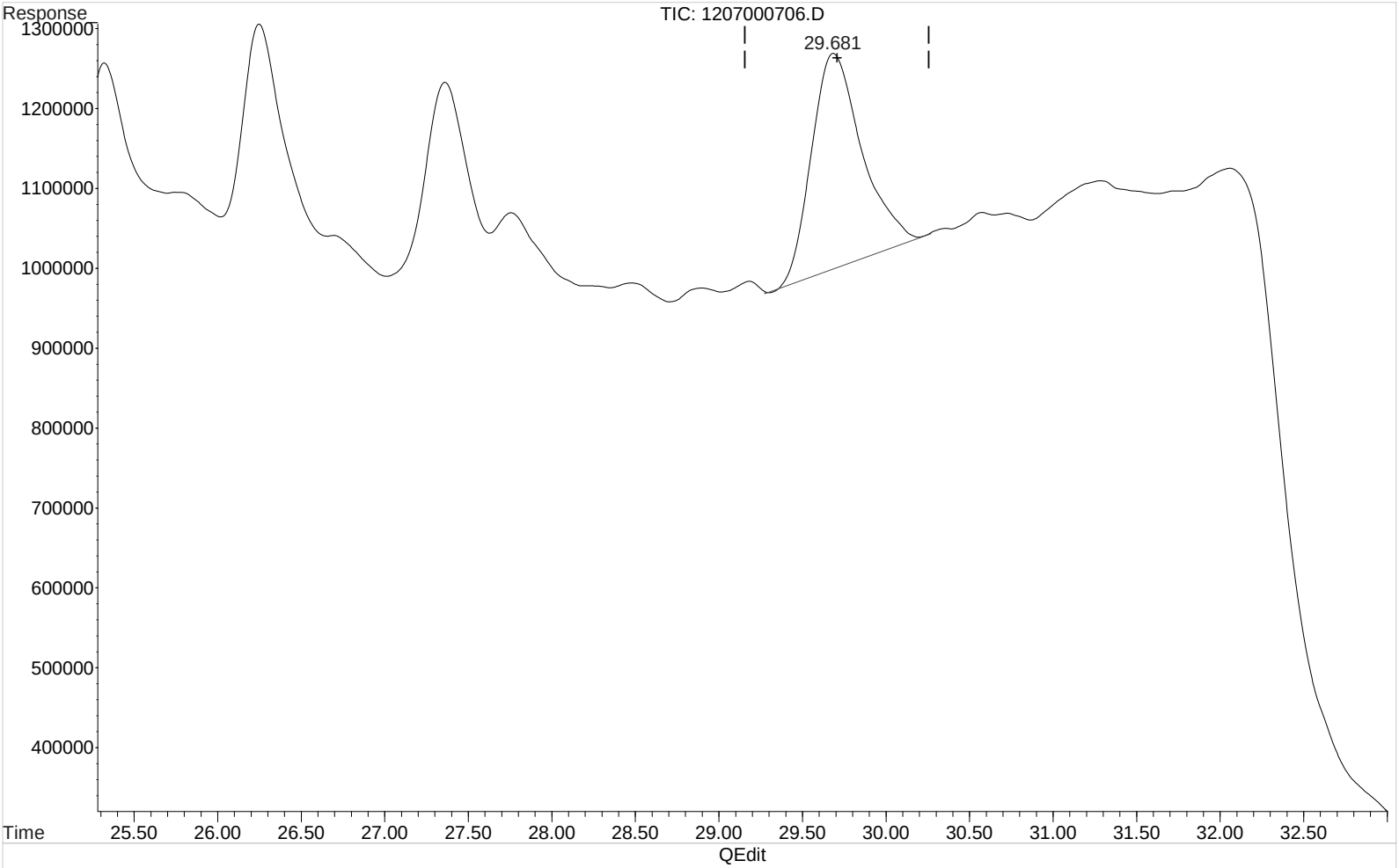
(+) = Expected Retention Time

1st (b) (6) 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

29.681min 88.219 ug/L m

response 5676794

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st (b) (6) 2/08/16
2n 2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:07:38 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	29.700	11544733	190.638 ug/L m
Target Compounds				
1) T	Nitroglycerin	16.646	3508399	142.764 ug/L m
2) T	PETN	27.773	3761772	182.254 ug/L m

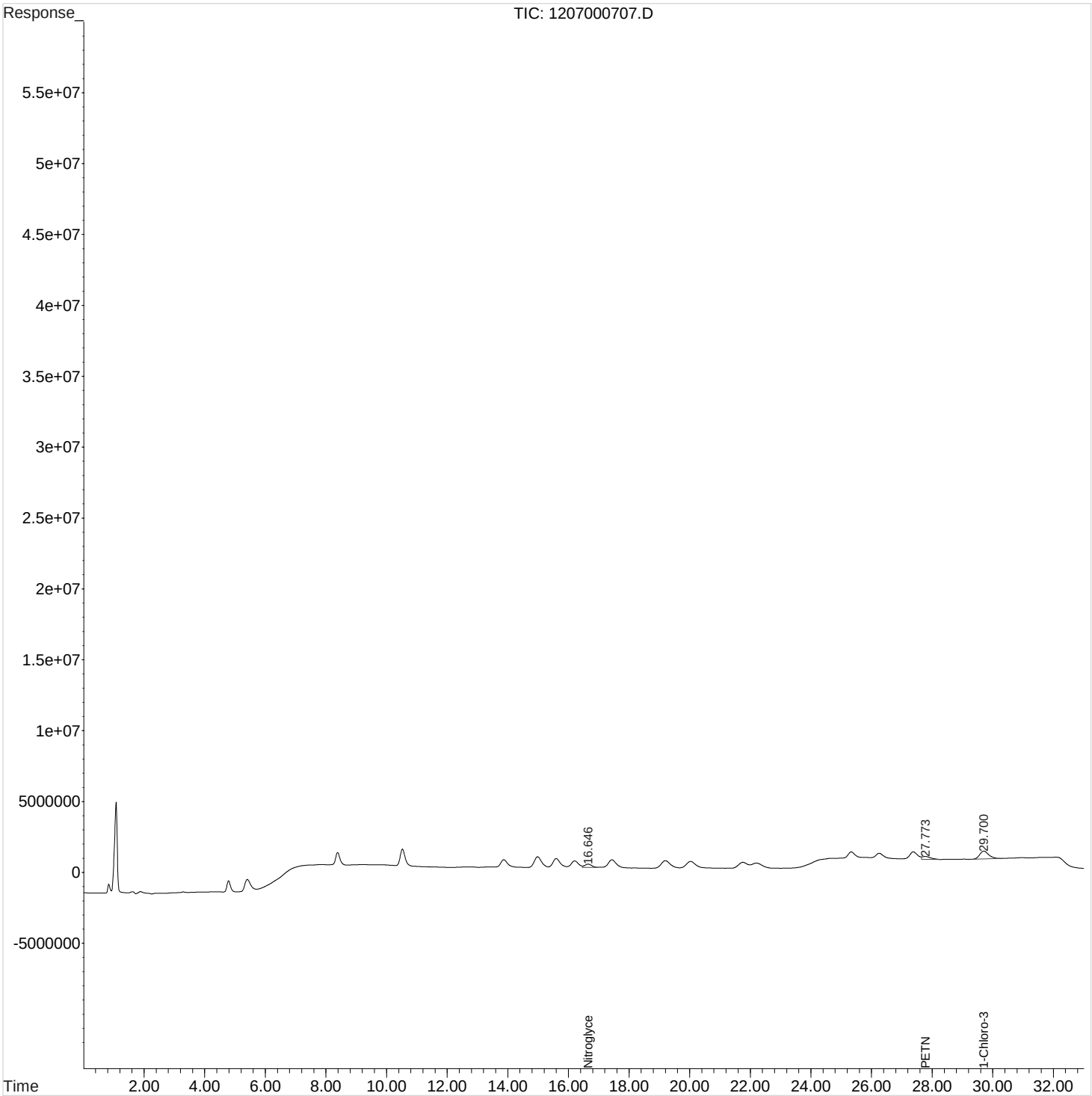
(f)=RT Delta > 1/2 Window (m)=manual int.

1st (b) (6) 2/08/16
2nd [redacted] 2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:07:38 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

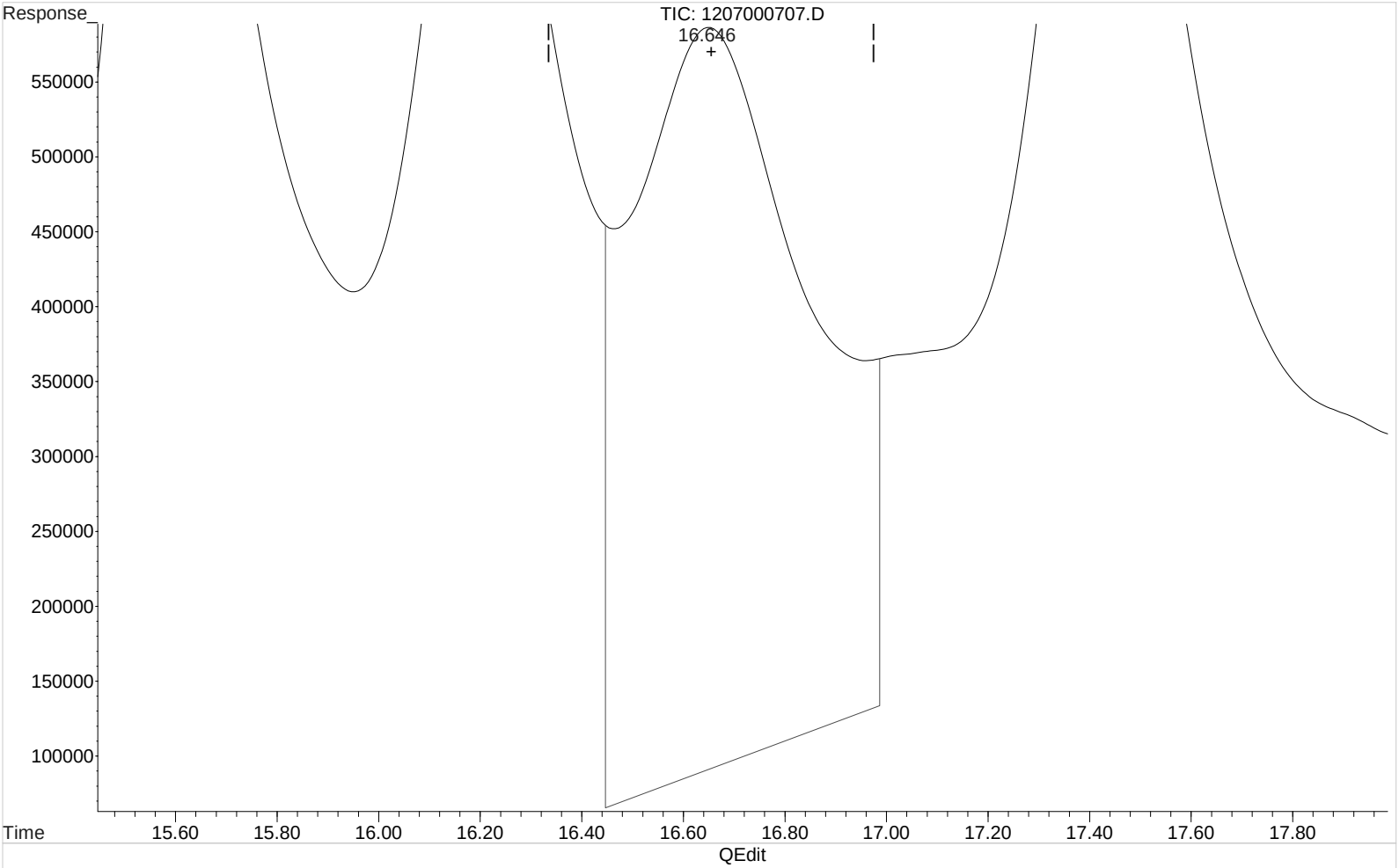


(b) (6)
1st [redacted] 12/08/16
2n [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:29:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.646min 492.695 ug/L

response 12107848

Manual Integration:

Before

12/08/16

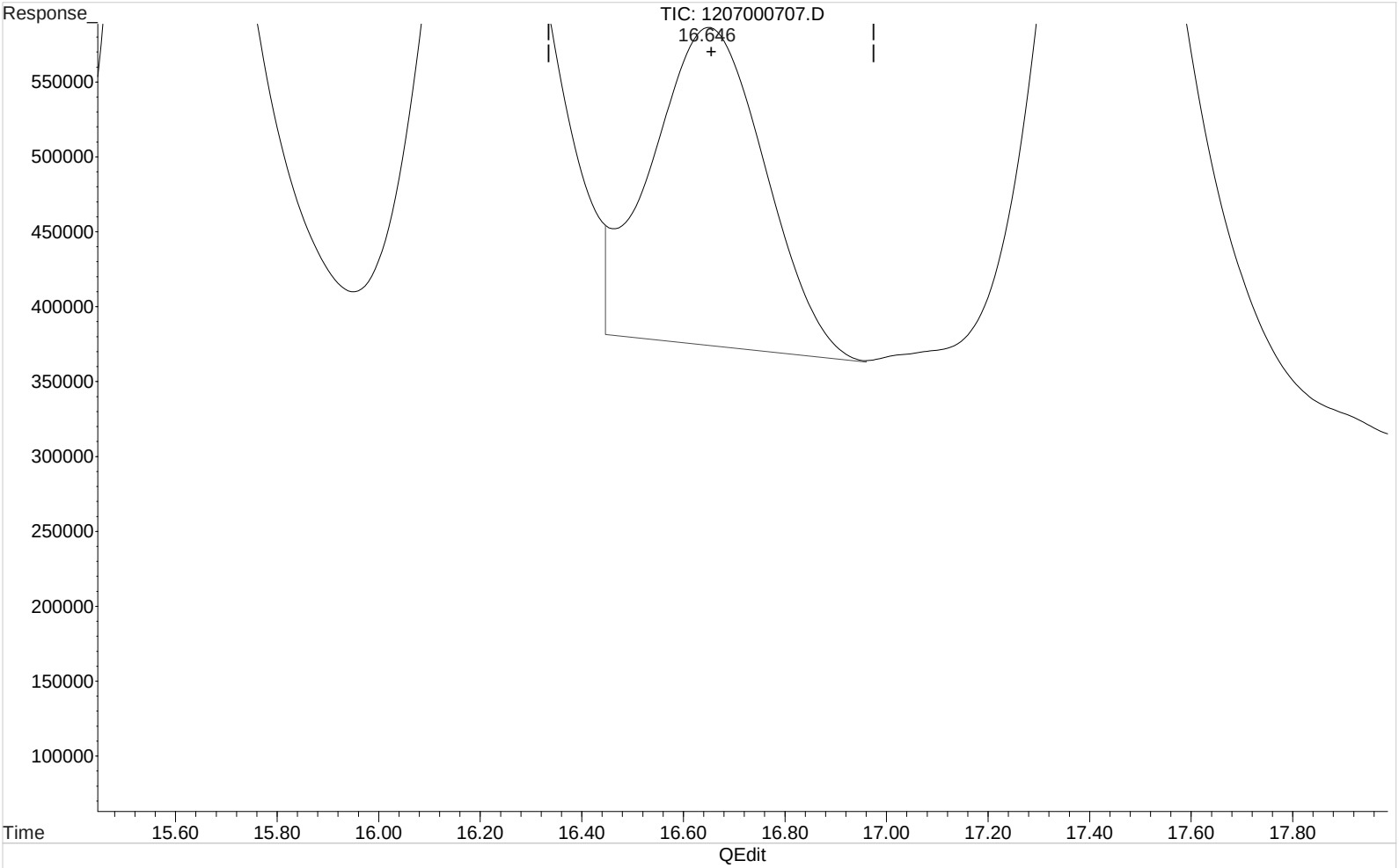
(+) = Expected Retention Time

(b)
(6)
1st 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:29:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.646min 133.721 ug/L m

response 3286165

Manual Integration:

After

BLC

12/08/16

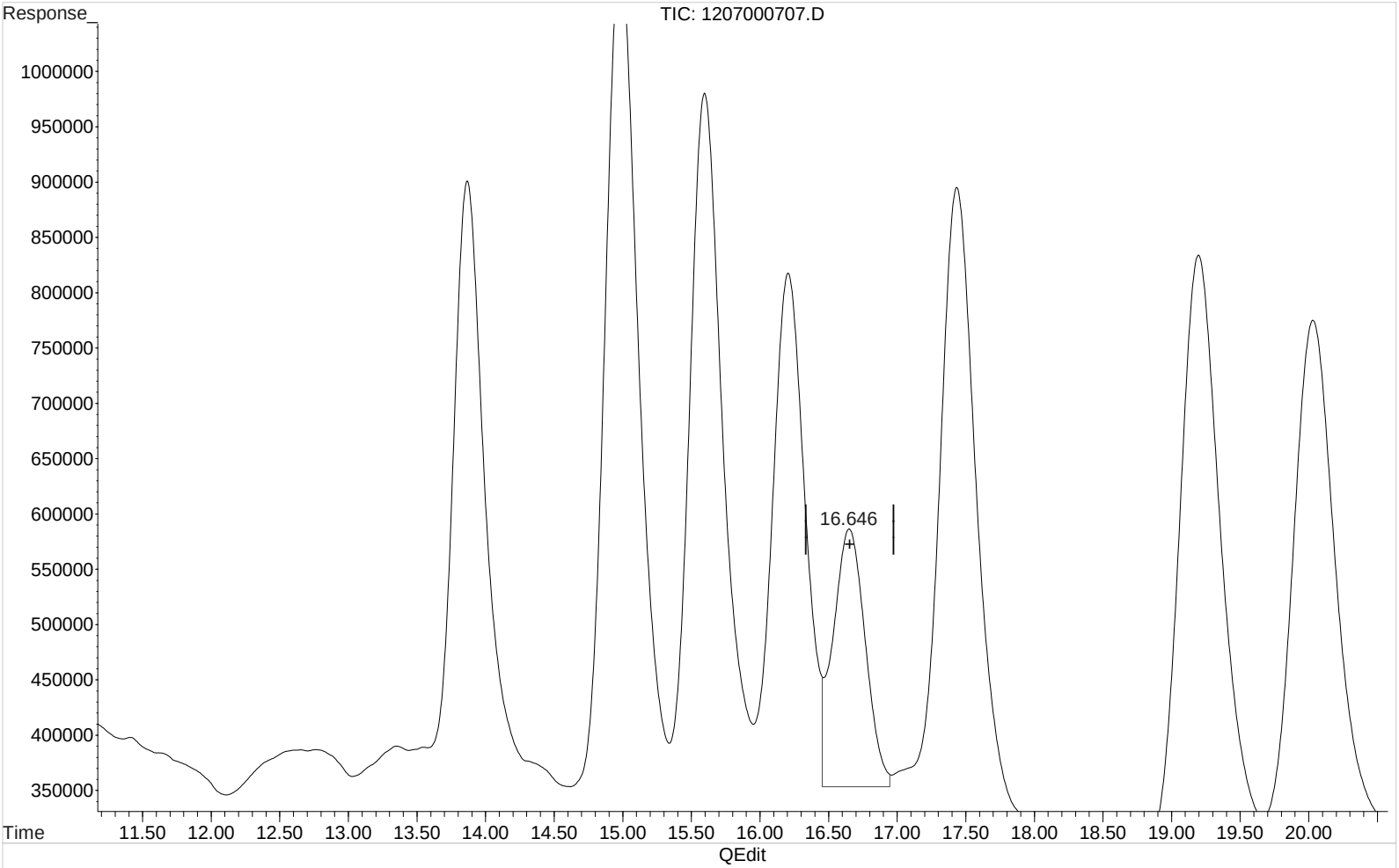
(+) = Expected Retention Time

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:30:15 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.646min 155.245 ug/L m

response 3815102

Manual Integration:

After

BLC

12/08/16

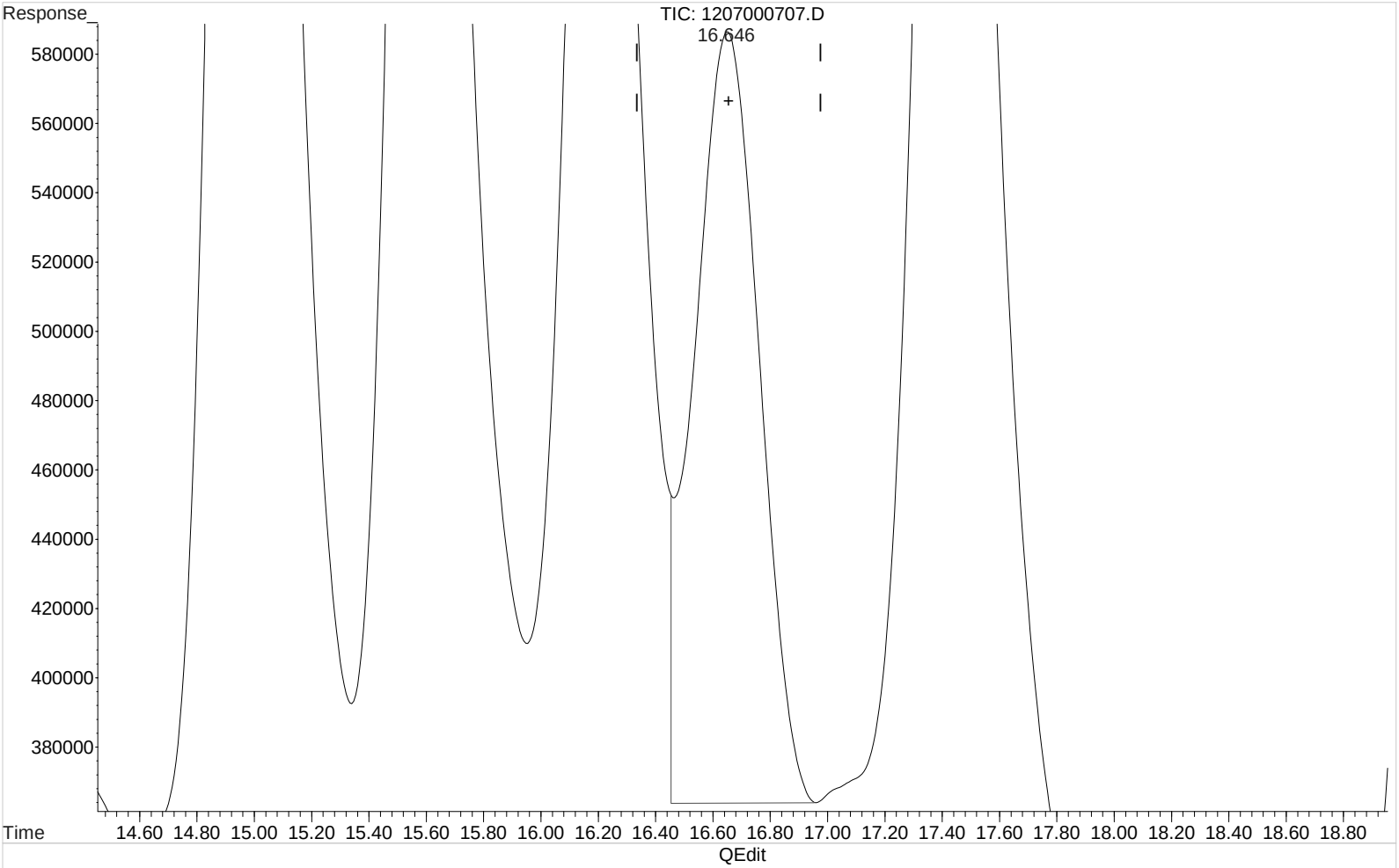
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:40:45 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.646min 142.764 ug/L m

response 3508399

Manual Integration:

After

Baseline/Shoulder

12/08/16

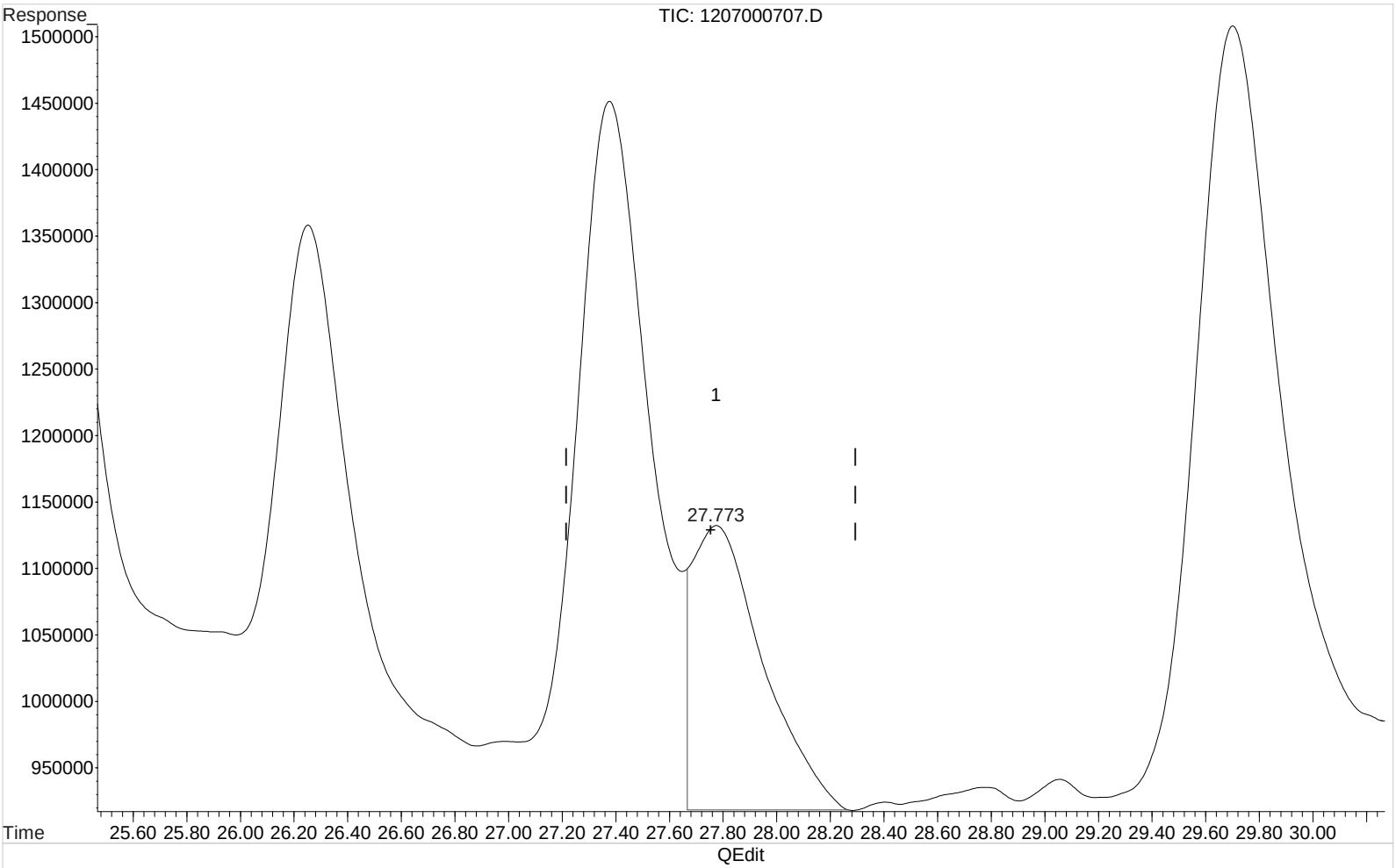
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:29:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.773min 187.377 ug/L

response 3867500

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

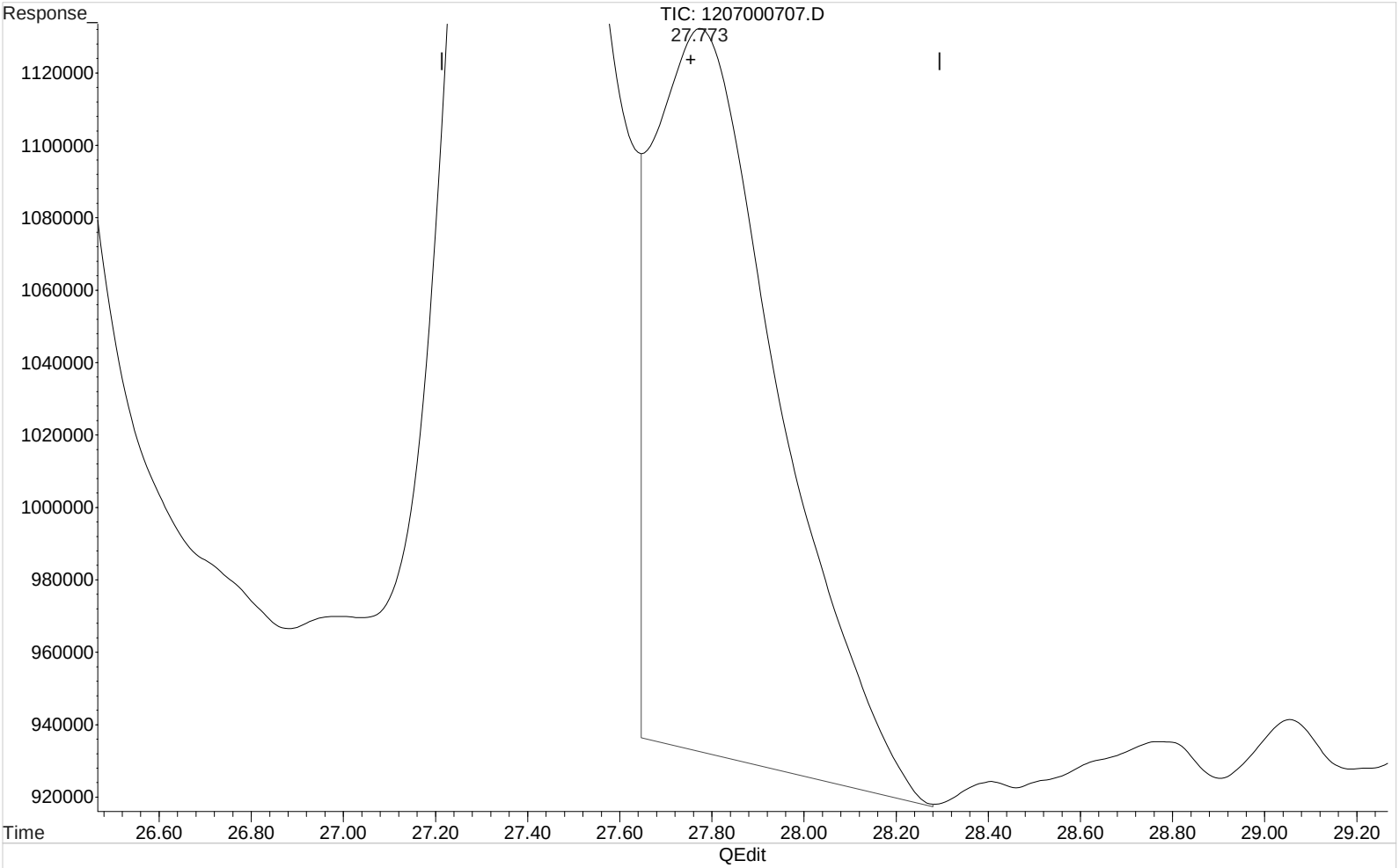
Quantitation Report (Qedit)

(b) (6)
1st 2/08/16
2n 2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:40:45 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.773min 182.254 ug/L m

response 3761772

Manual Integration:

After

Baseline/Shoulder

12/08/16

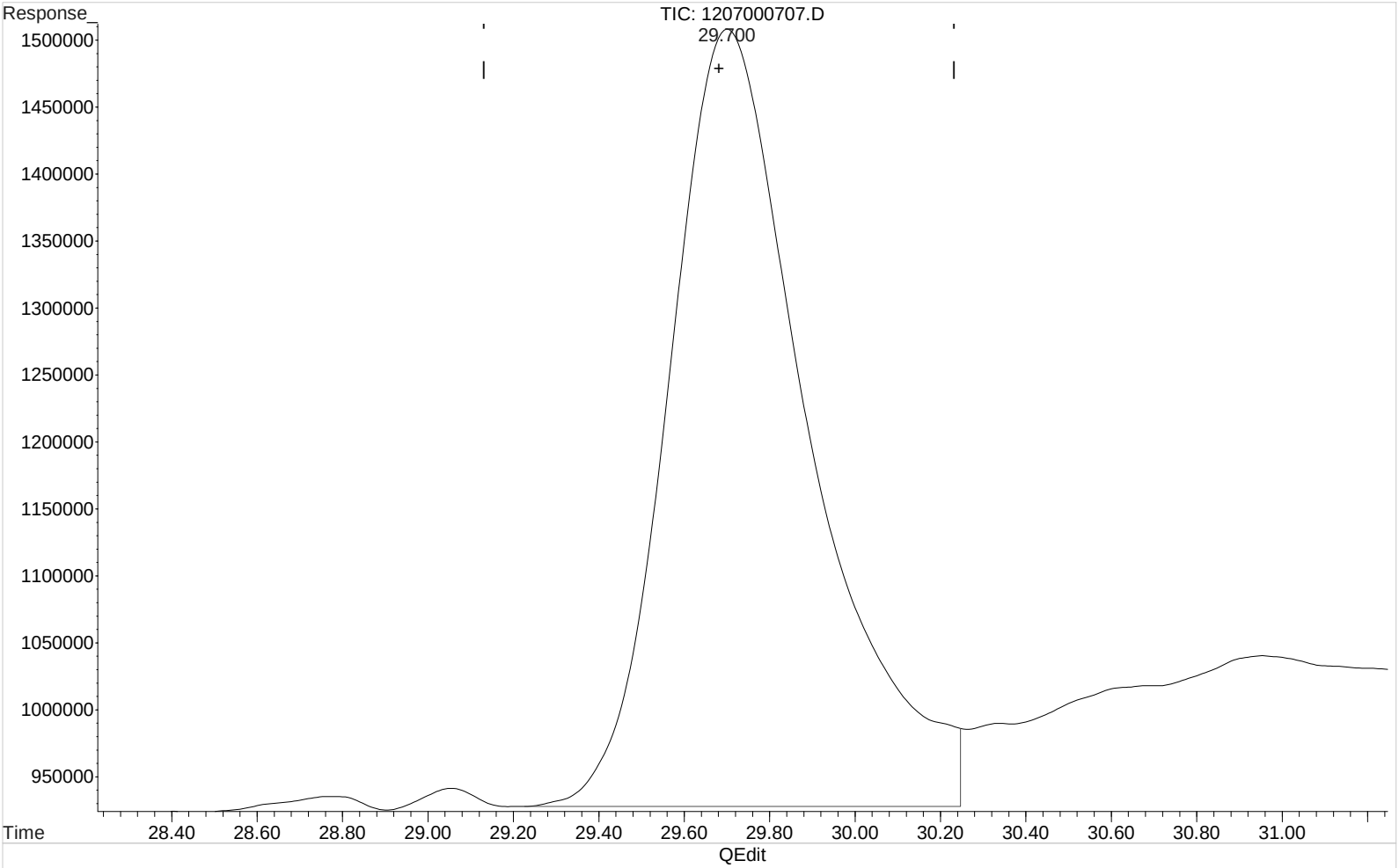
(+) = Expected Retention Time

(b) (6)
1st 2/08/16
2n 2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:29:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.700min 218.688 ug/L

response 13243379

Manual Integration:

Before

12/08/16

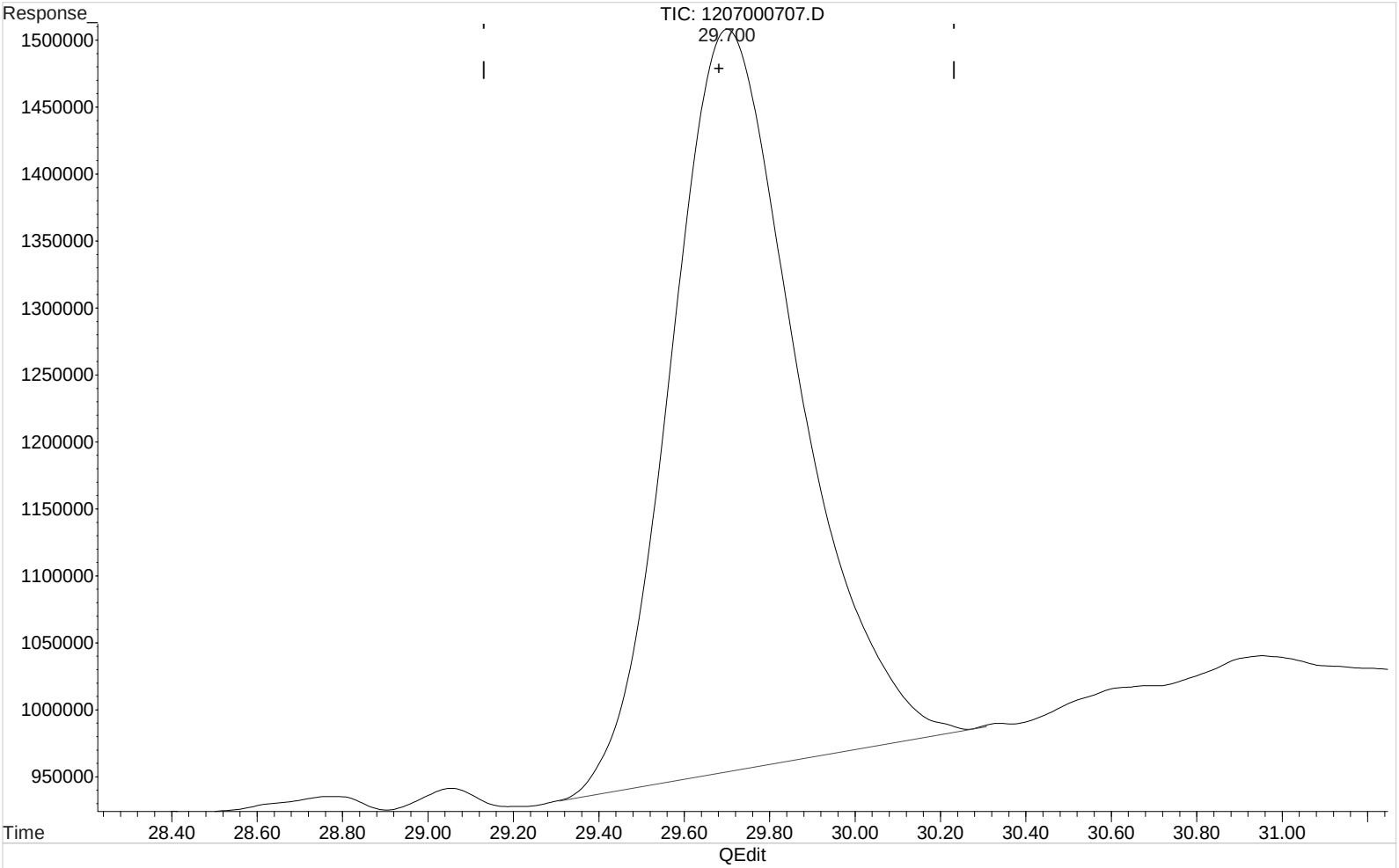
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:29:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.700min 190.638 ug/L m

response 11544733

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000708.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:08:18 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:30:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	29.705	28560027	479.087 ug/L m
Target Compounds				
1) T	Nitroglycerin	16.639	11239759	514.168 ug/L
2) T	PETN	27.792	8986852	439.492 ug/L m

(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)

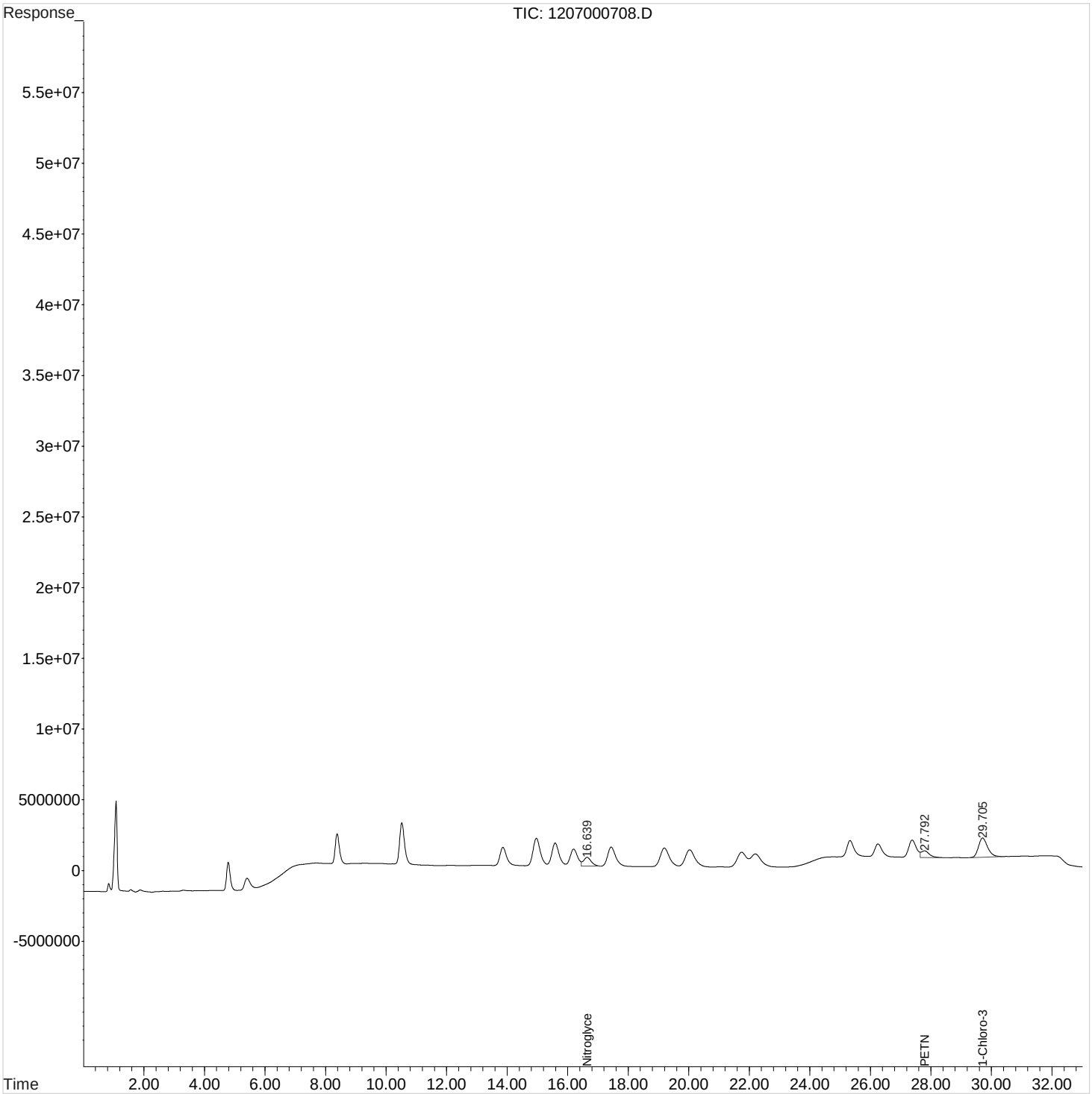
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000708.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:08:18 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:30:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

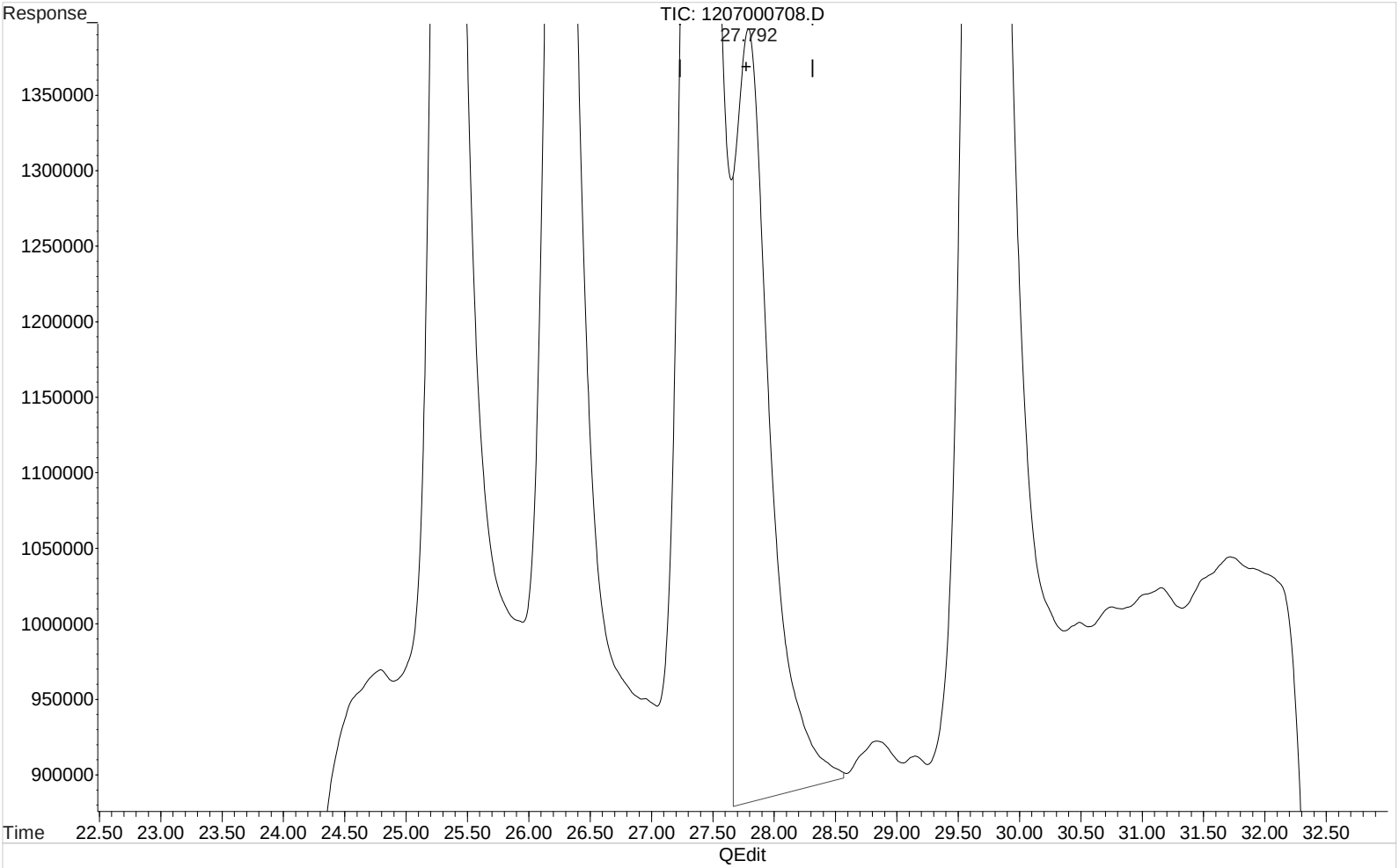


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000708.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:30:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:30:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.792min 480.822 ug/L

response 9831980

Manual Integration:

Before

12/08/16

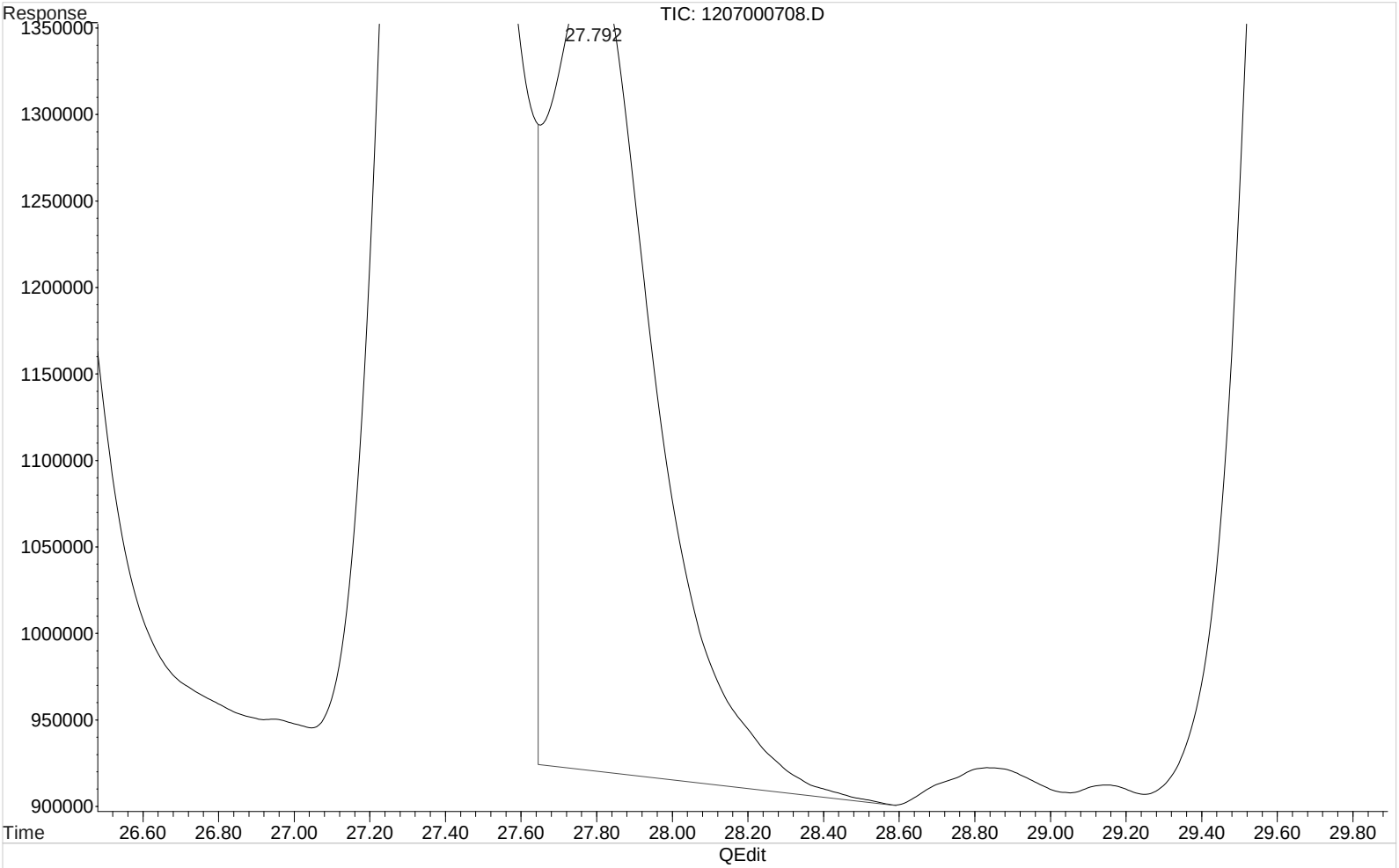
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000708.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:31:41 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:30:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.792min 439.492 ug/L m

response 8986852

Manual Integration:

After

Baseline/Shoulder

12/08/16

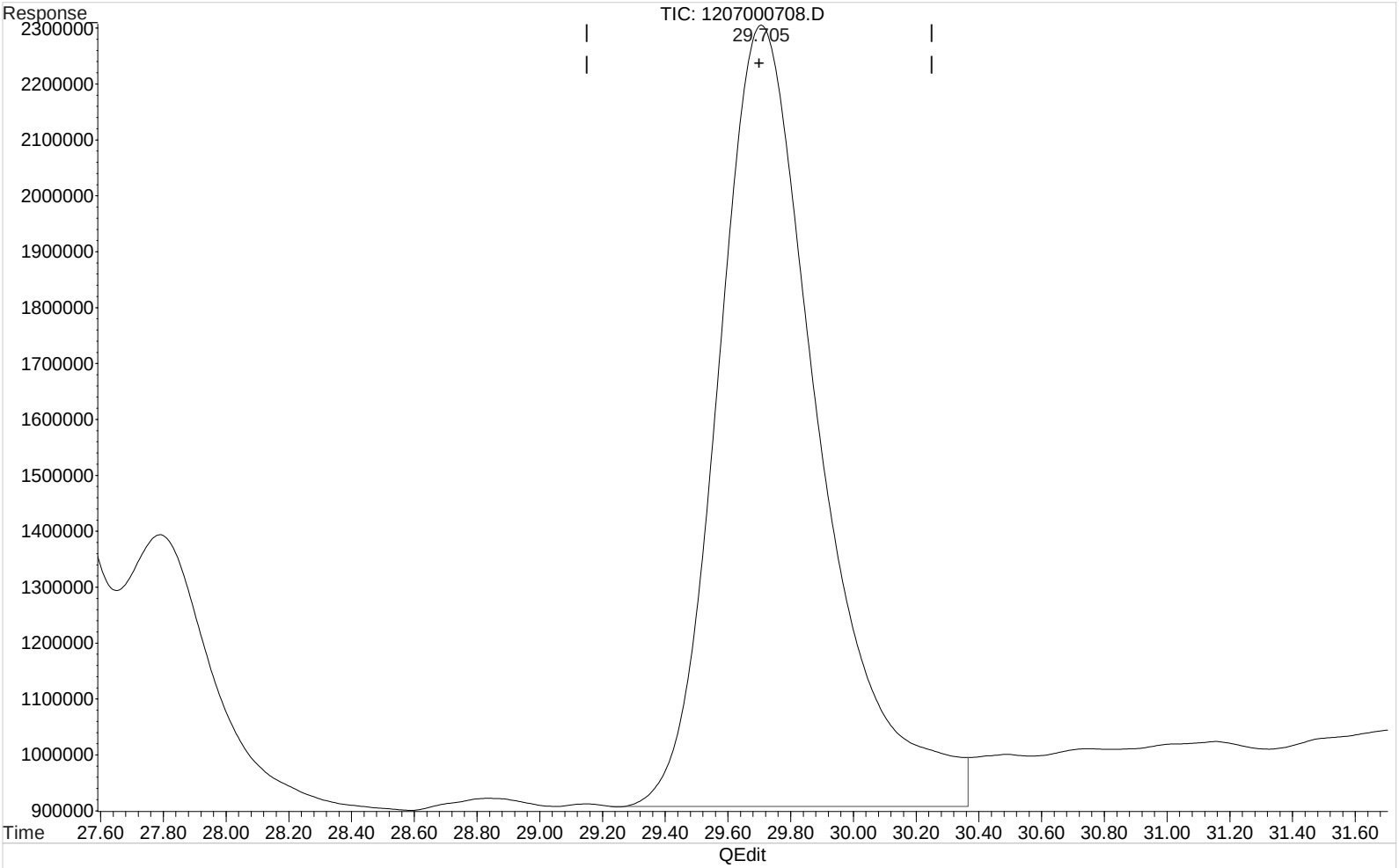
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000708.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:30:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:30:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.705min 527.464 ug/L

response 31443916

Manual Integration:

Before

12/08/16

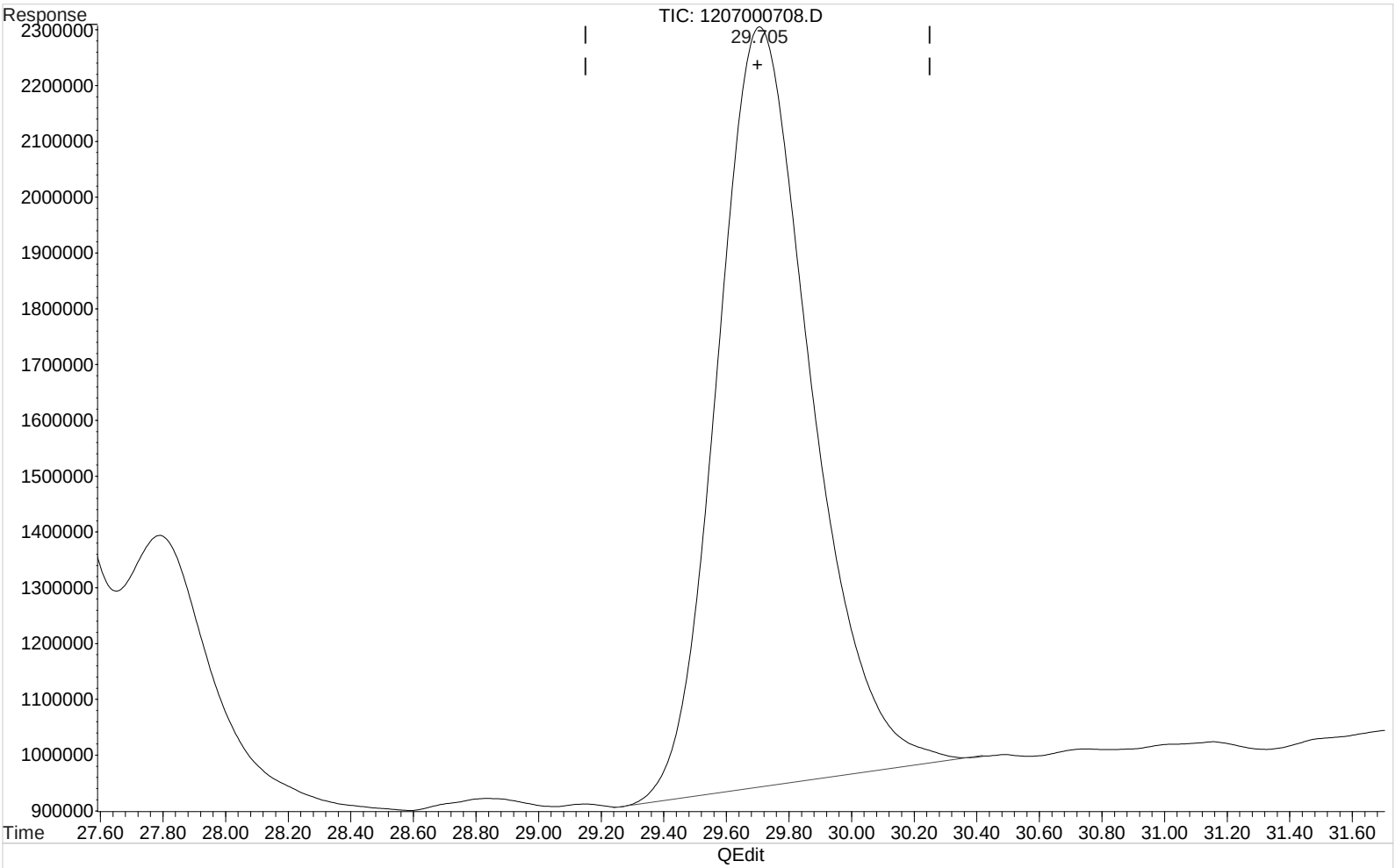
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000708.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:30:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:30:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

29.705min 479.087 ug/L m

response 28560027

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:33:37 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	29.704	55010487	932.538 ug/L m
Target Compounds				
1) T	Nitroglycerin	16.630	21521854	977.602 ug/L m
2) T	PETN	27.784	18036372	902.302 ug/L m

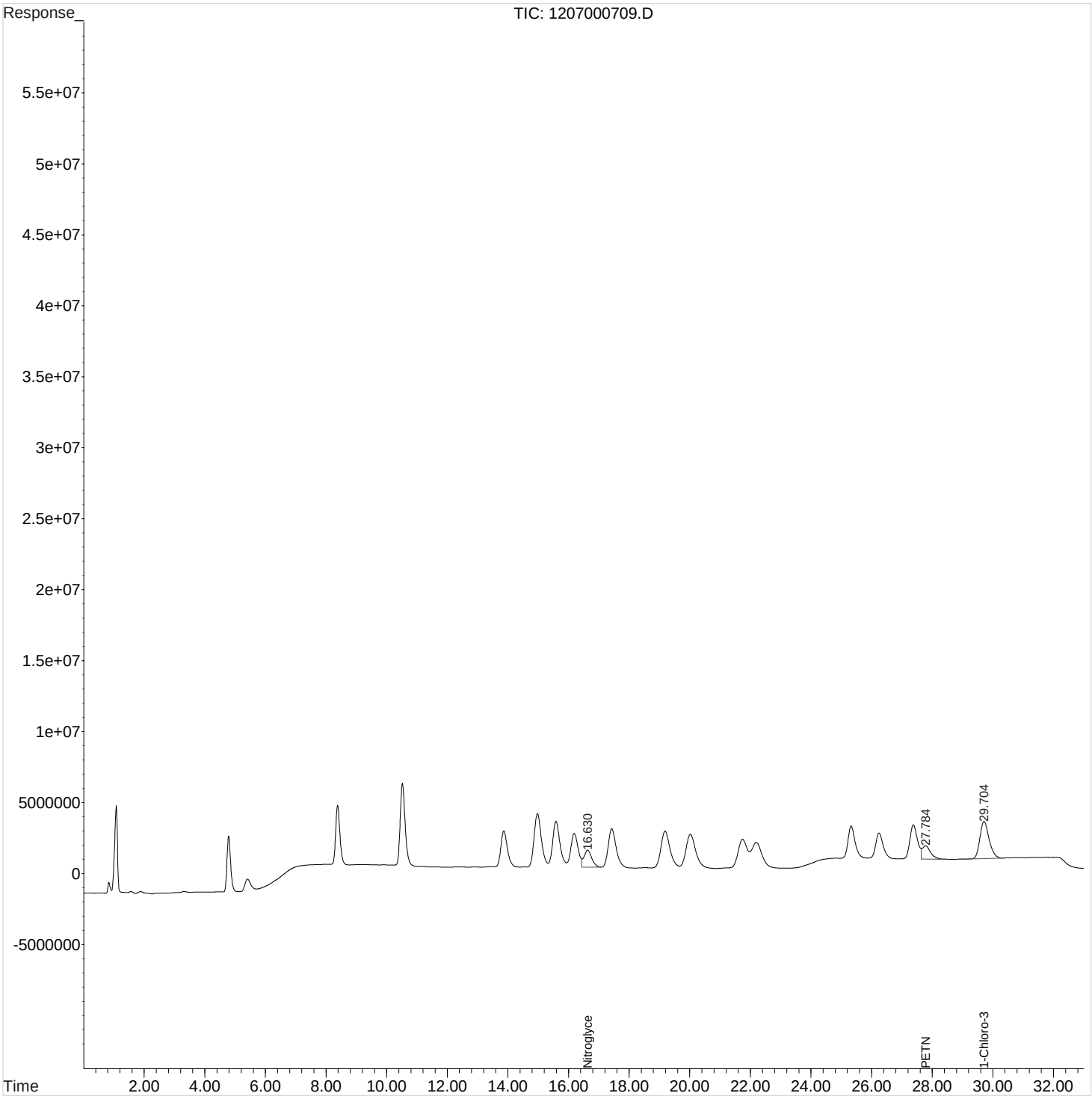
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:33:37 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

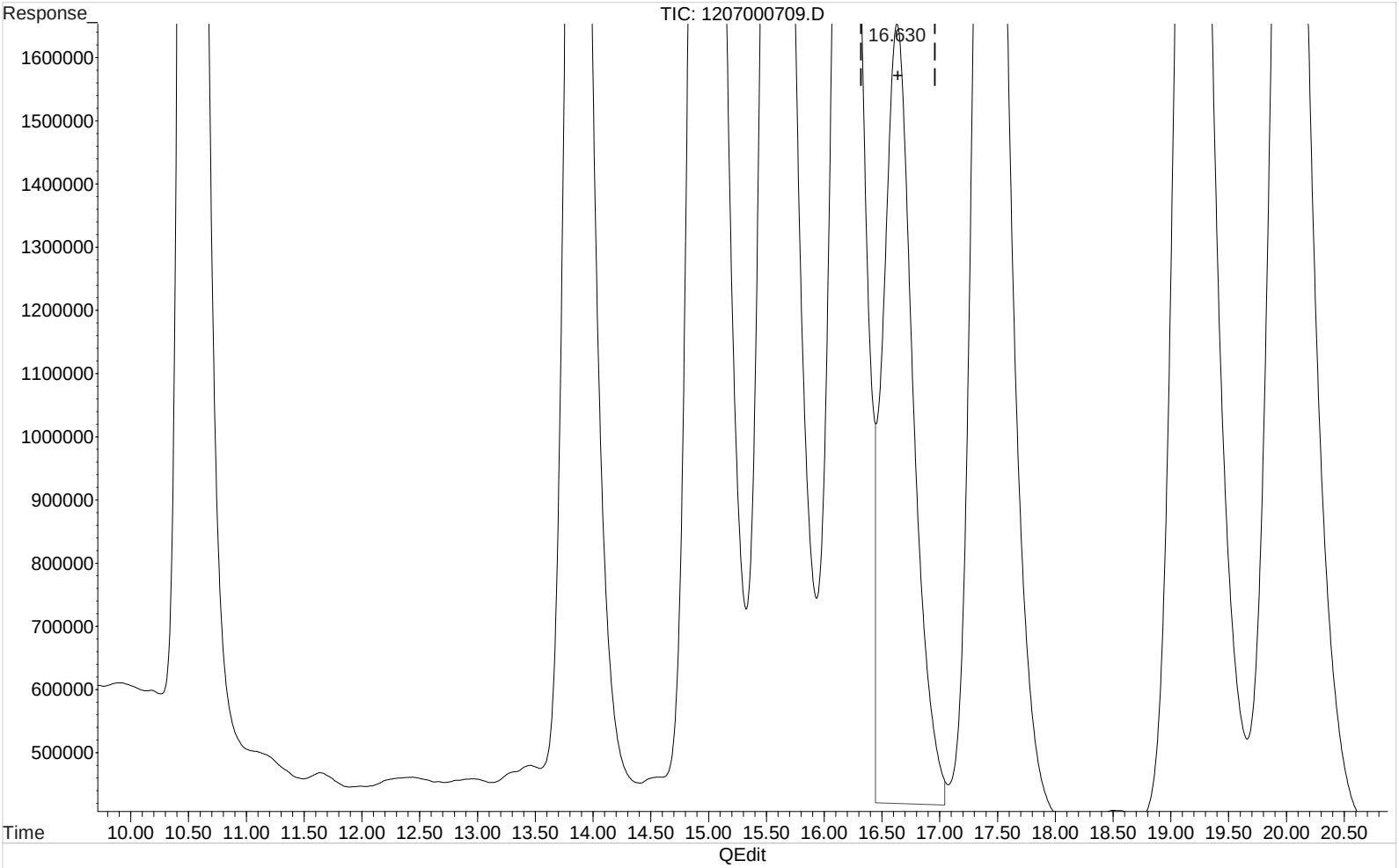


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:32:30 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.630min 1012.917 ug/L

response 22299324

Manual Integration:

Before

12/08/16

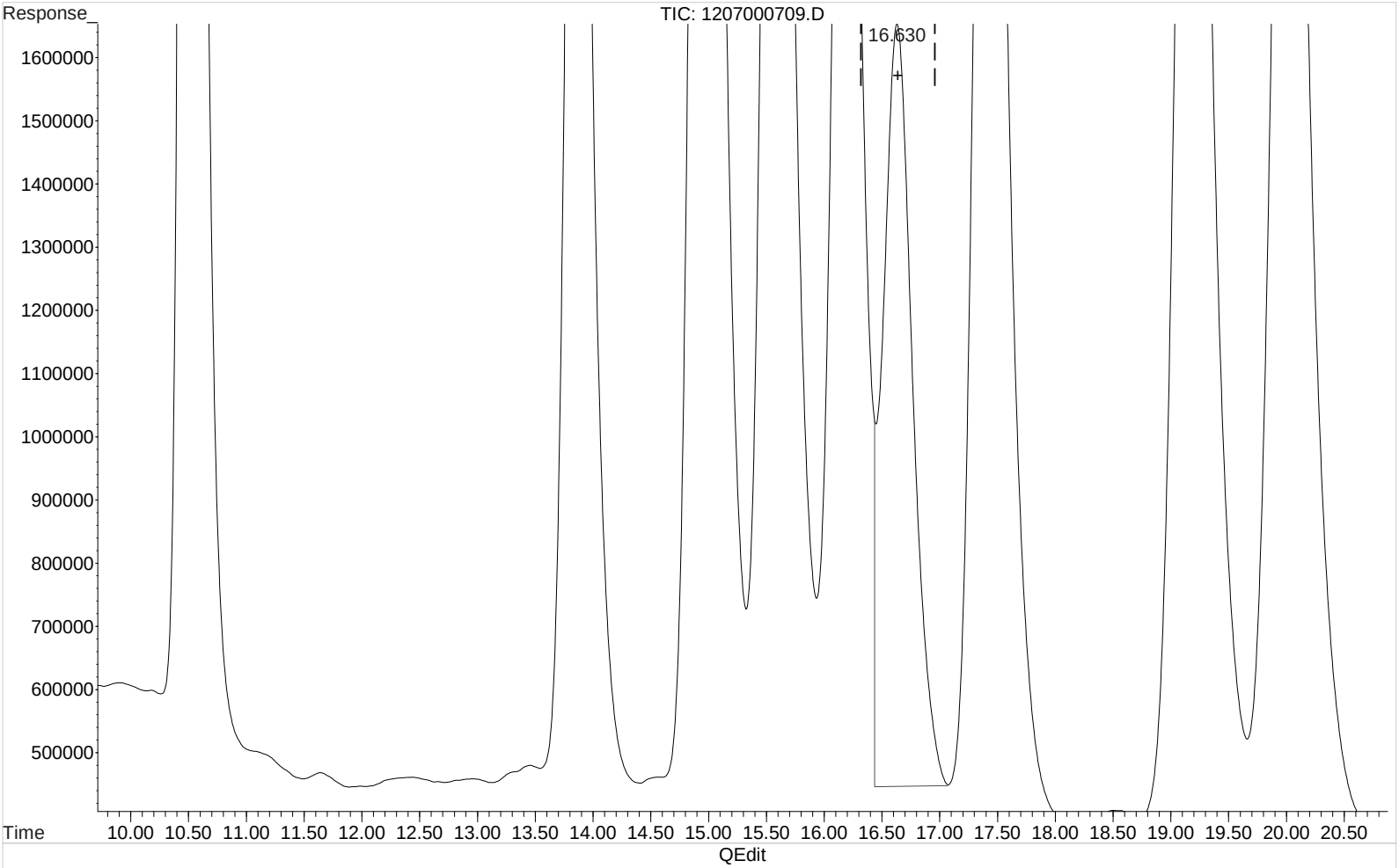
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:32:30 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.630min 977.602 ug/L m

response 21521854

Manual Integration:

After

BLC

12/08/16

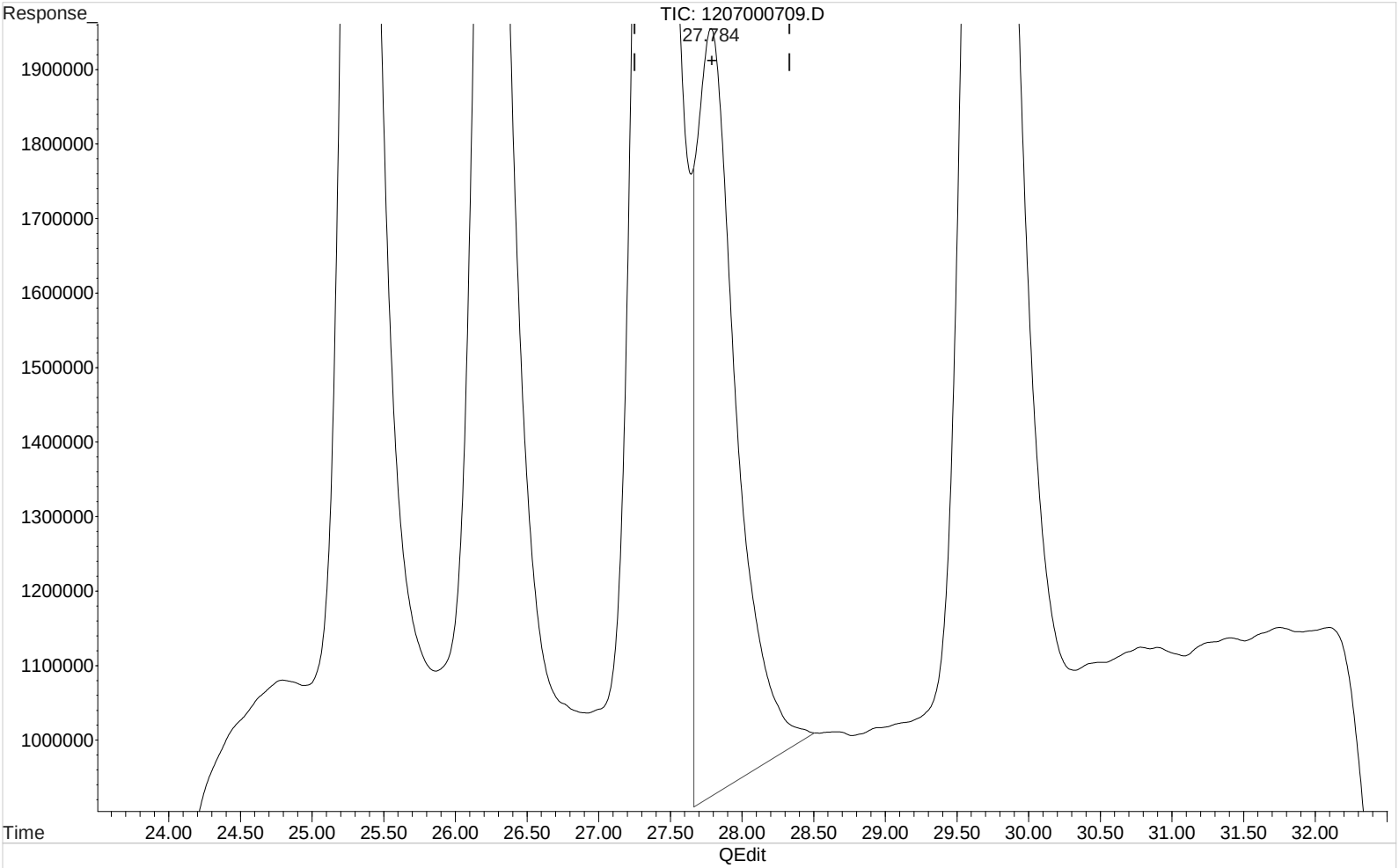
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:32:30 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.784min 975.465 ug/L

response 19498853

Manual Integration:

Before

12/08/16

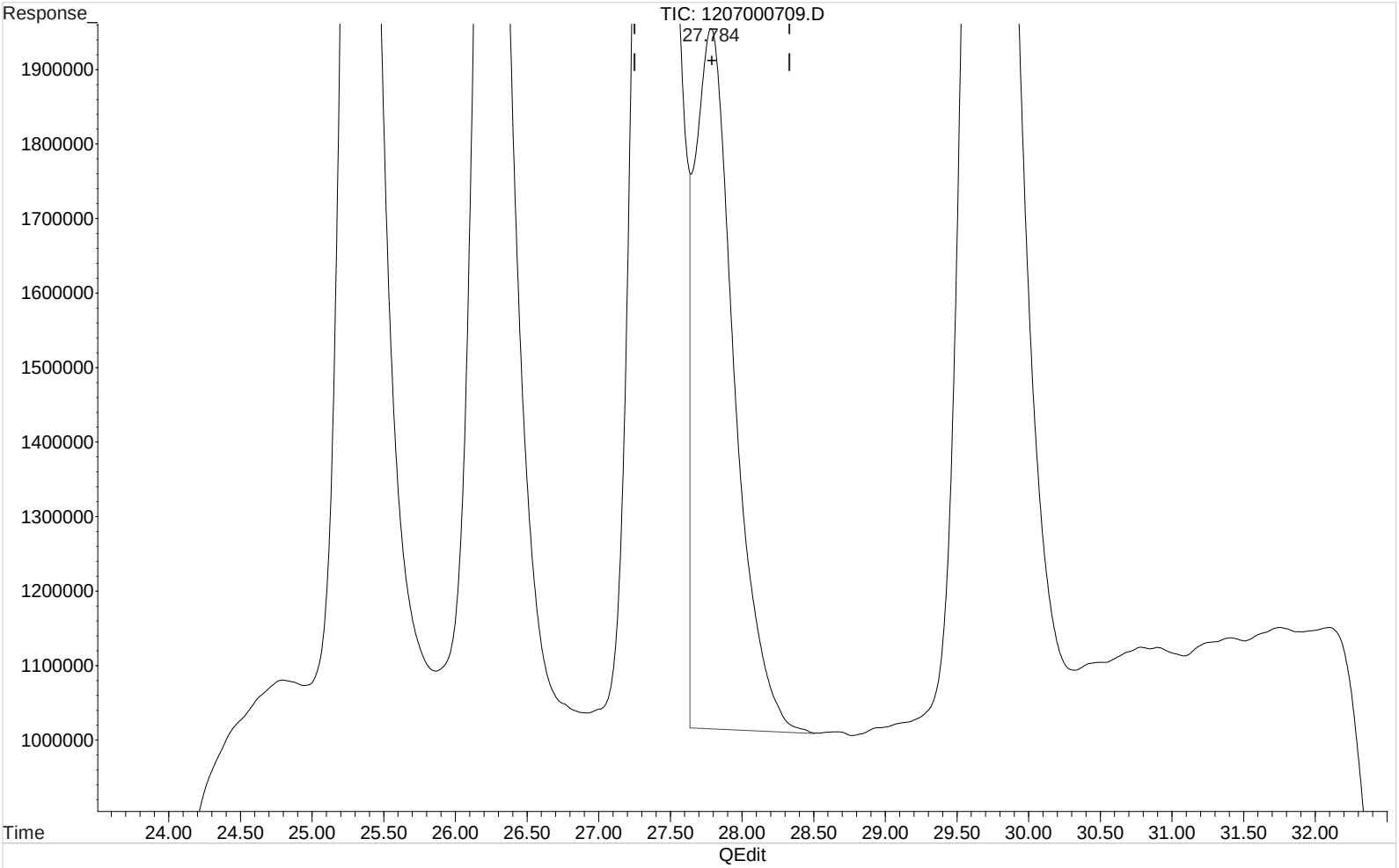
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:32:30 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.784min 902.302 ug/L m

response 18036372

Manual Integration:

After

BLC

12/08/16

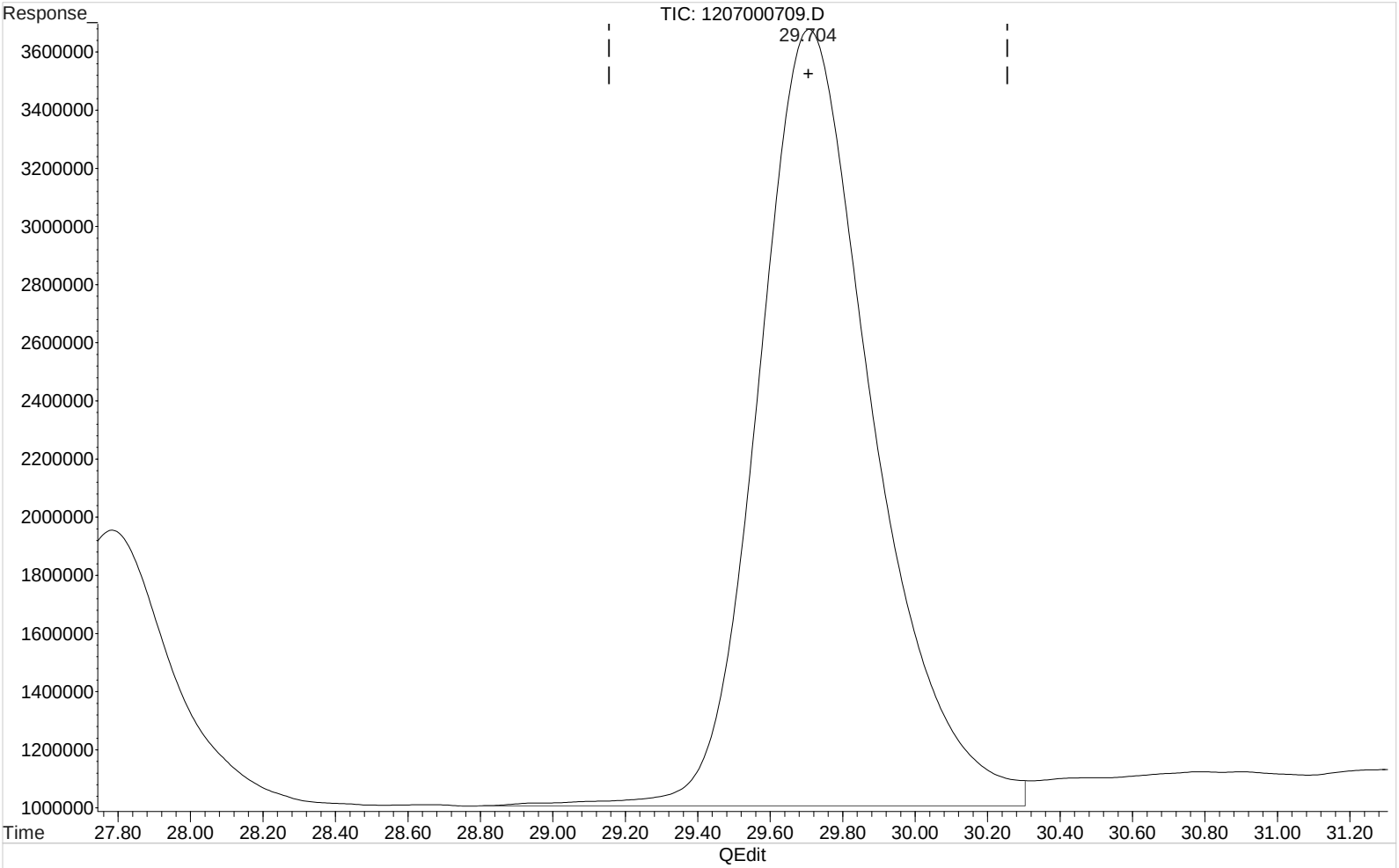
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:32:30 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.704min 995.581 ug/L

response 58729422

Manual Integration:

Before

12/08/16

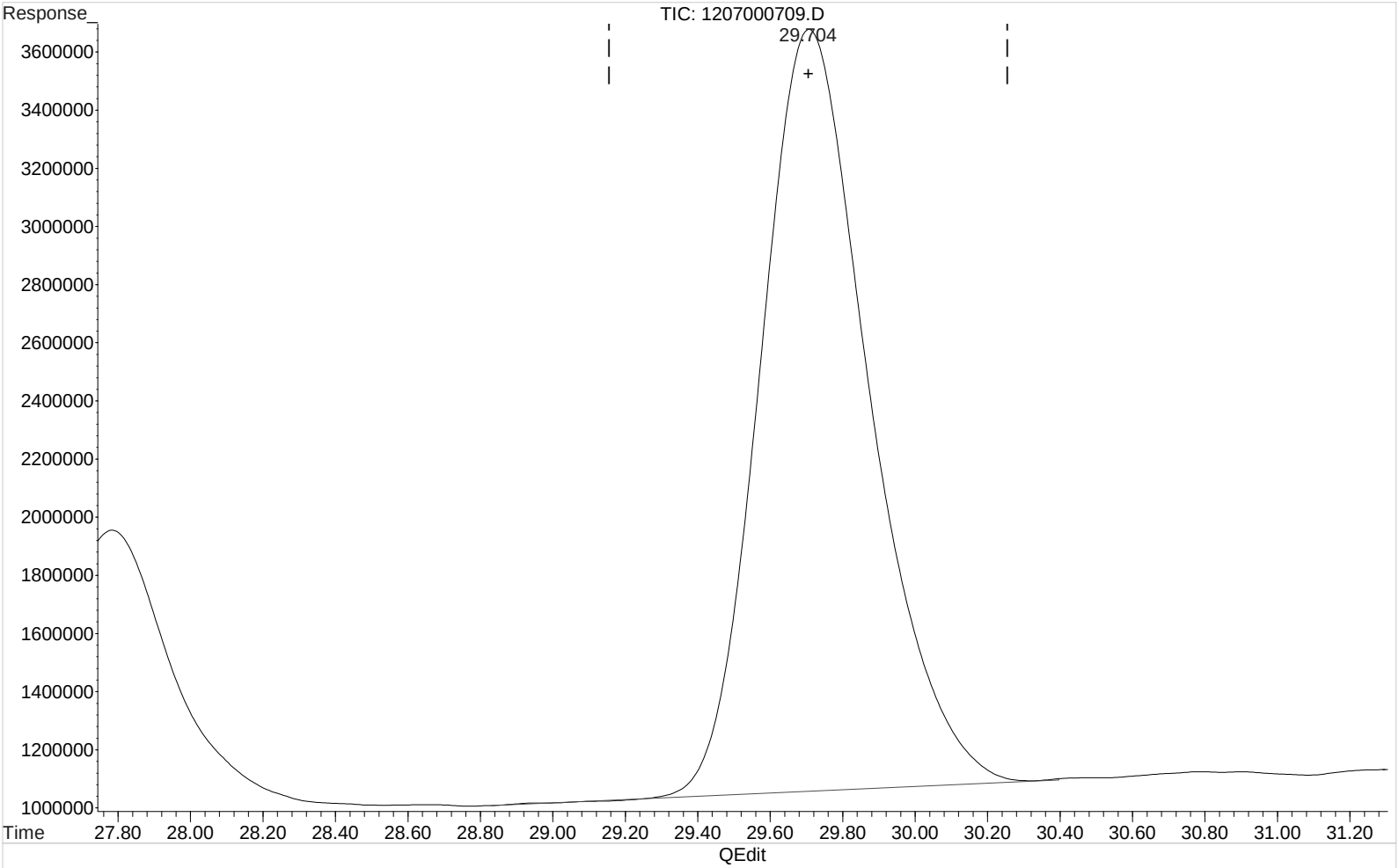
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:32:30 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.704min 932.538 ug/L m

response 55010487

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:49 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.700	112386573	1931.234	ug/L	m
Target Compounds						
1) T	Nitroglycerin	16.647	43206000	1971.406	ug/L	m
2) T	PETN	27.787	35607998	1816.855	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)

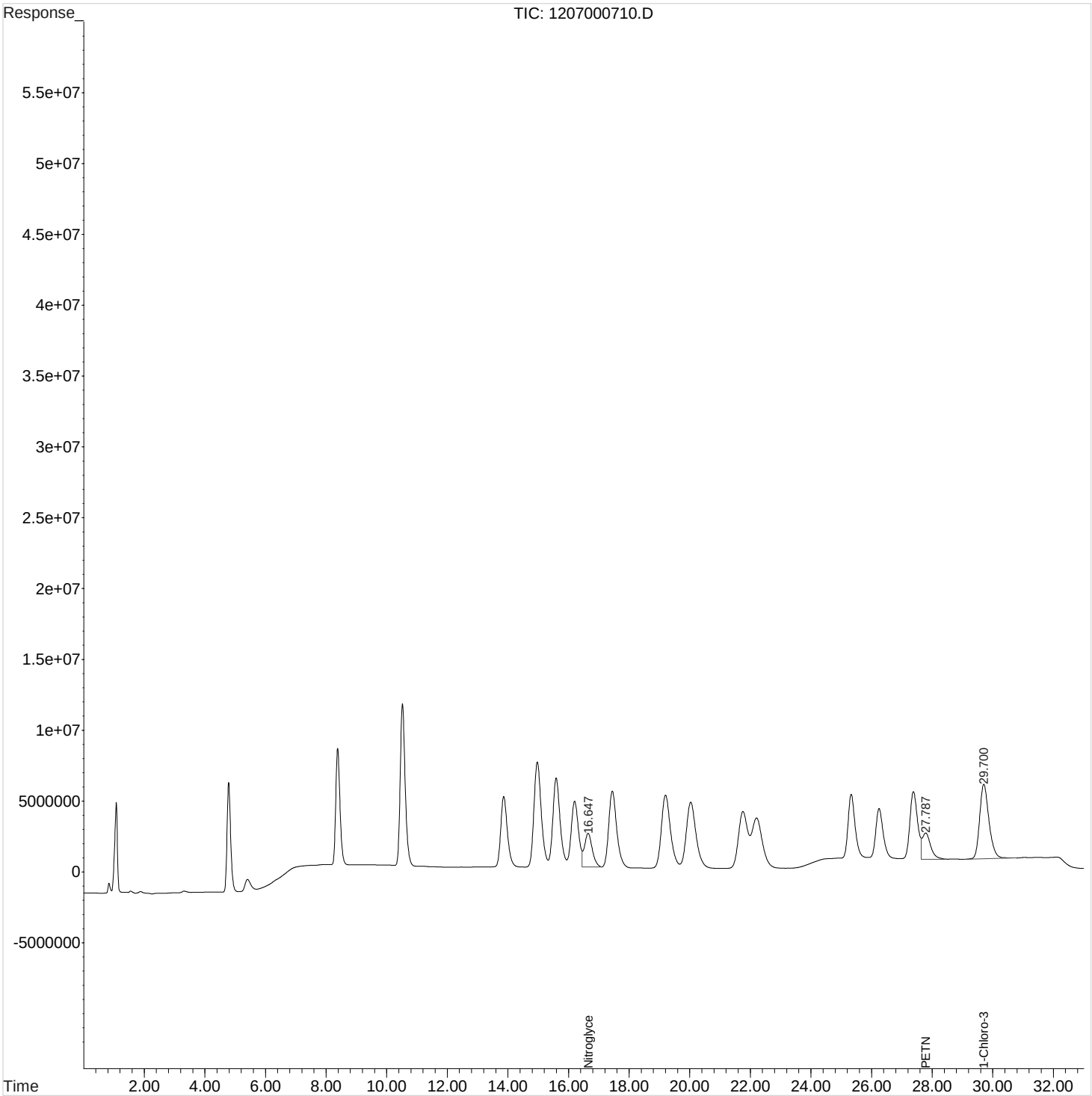
2/08/16

2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:49 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

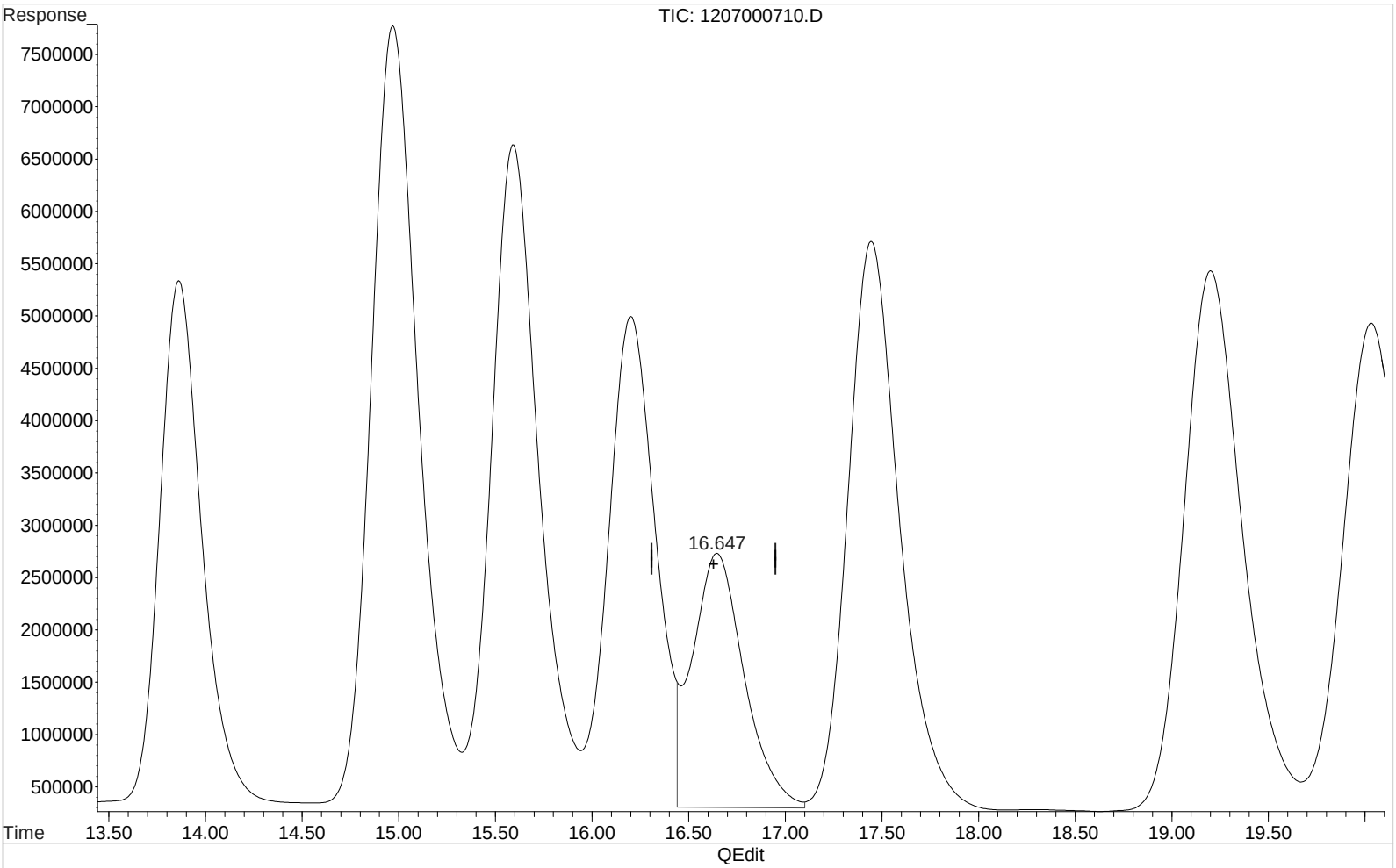


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:03 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.647min 2072.566 ug/L

response 45423047

Manual Integration:

Before

12/08/16

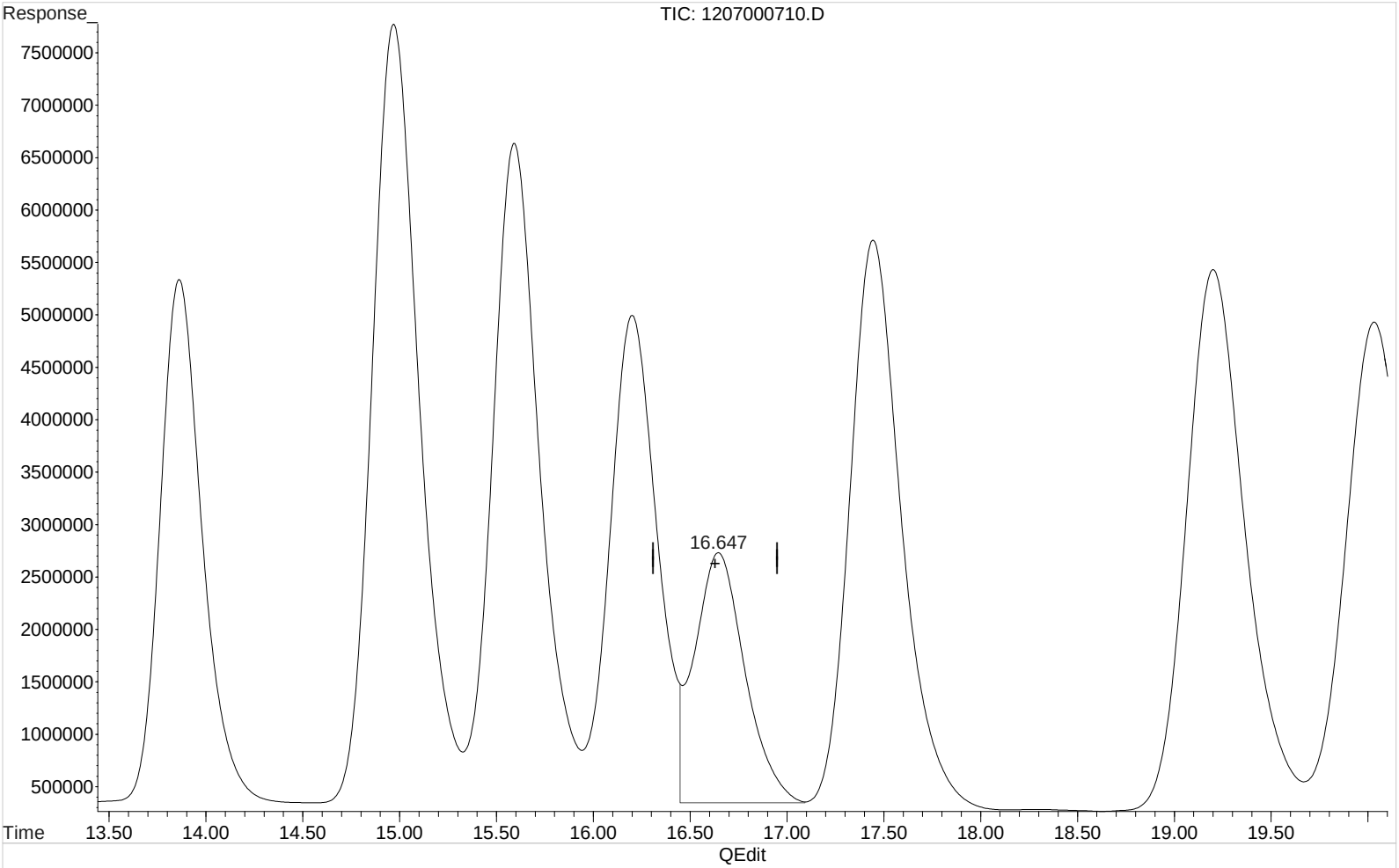
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:03 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.647min 1971.406 ug/L m

response 43206000

Manual Integration:

After

BLC

12/08/16

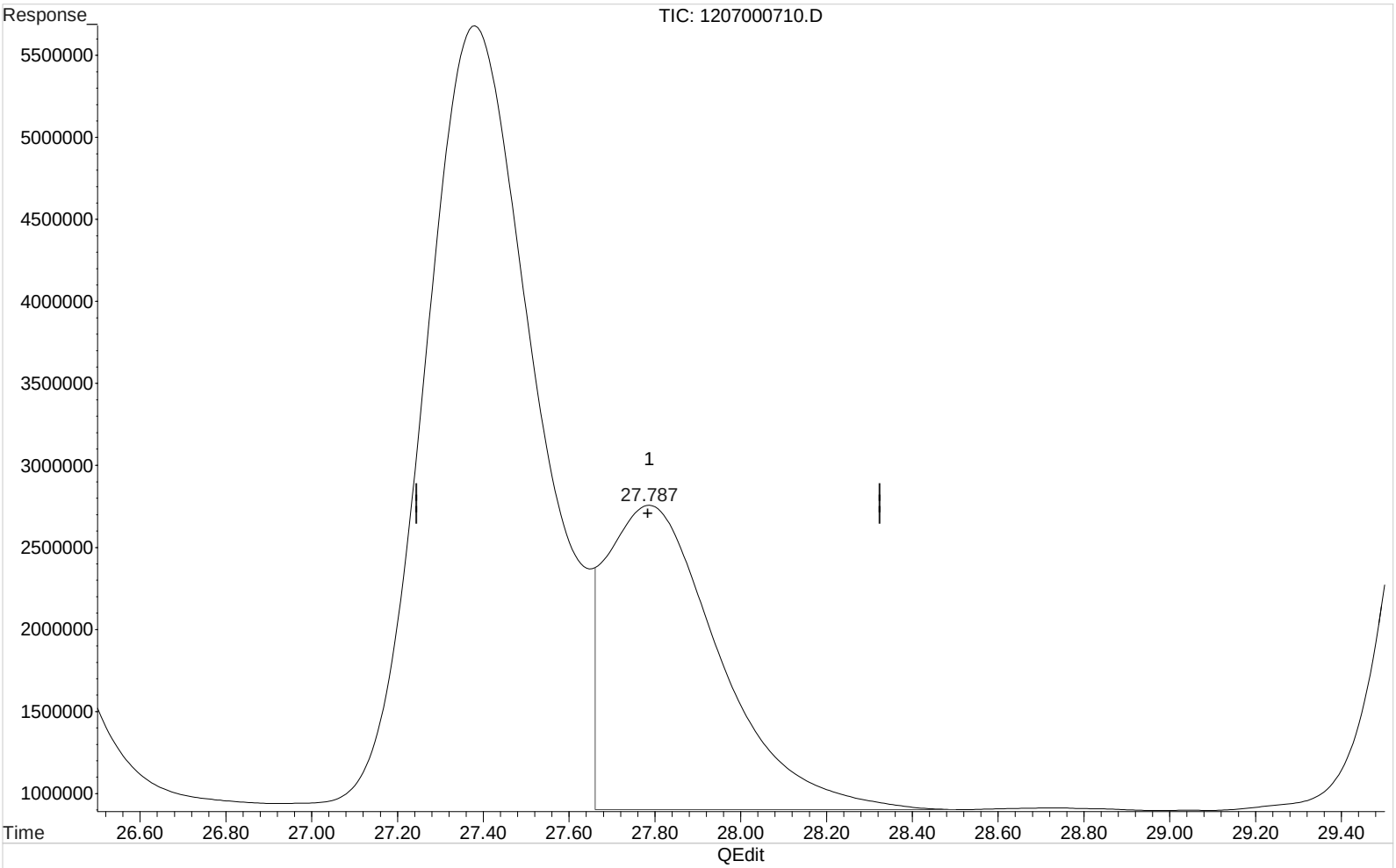
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:03 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.787min 1727.074 ug/L

response 33848411

Manual Integration:

Before

12/08/16

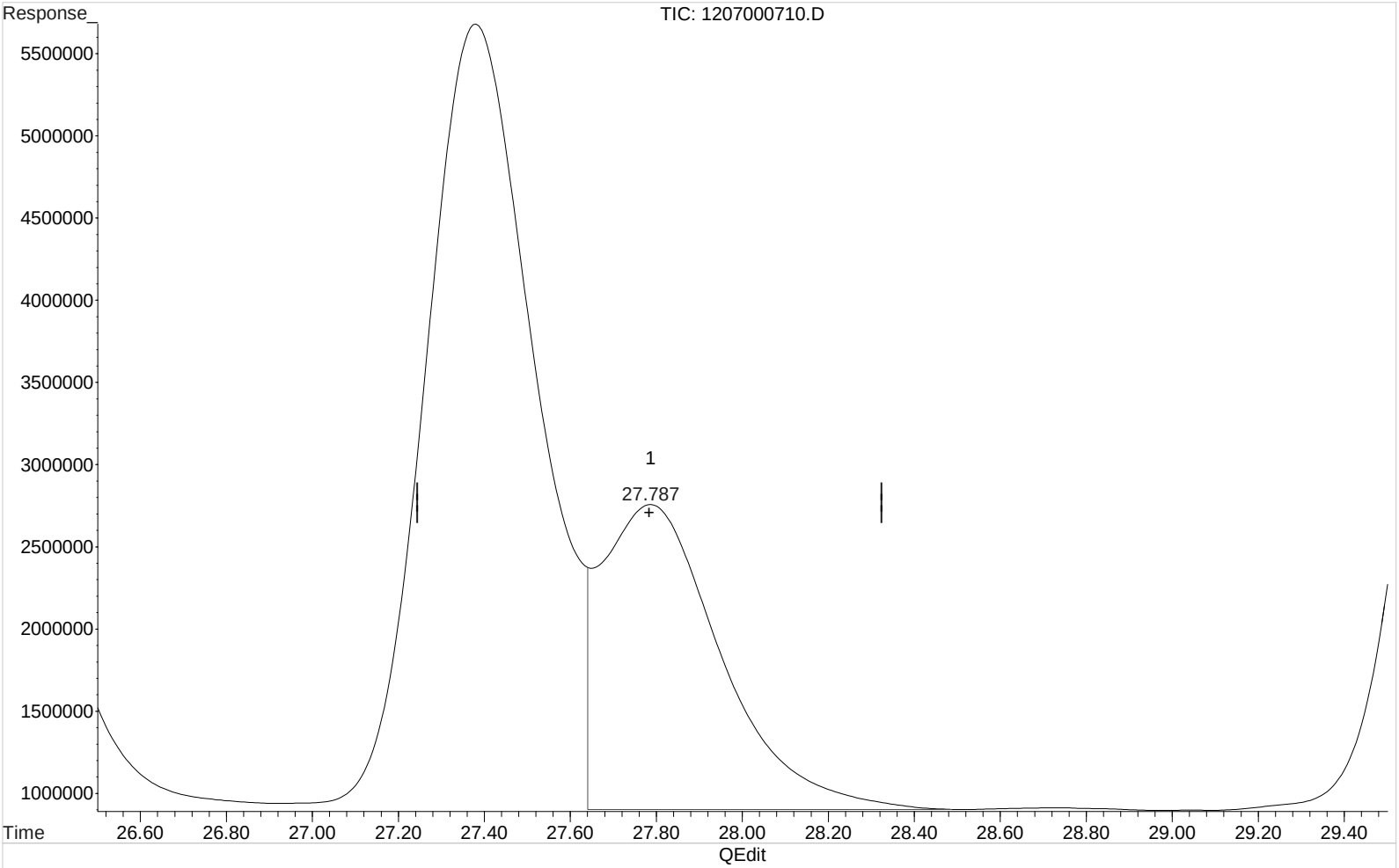
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:03 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.787min 1816.855 ug/L m

response 35607998

Manual Integration:

After

BLC

12/08/16

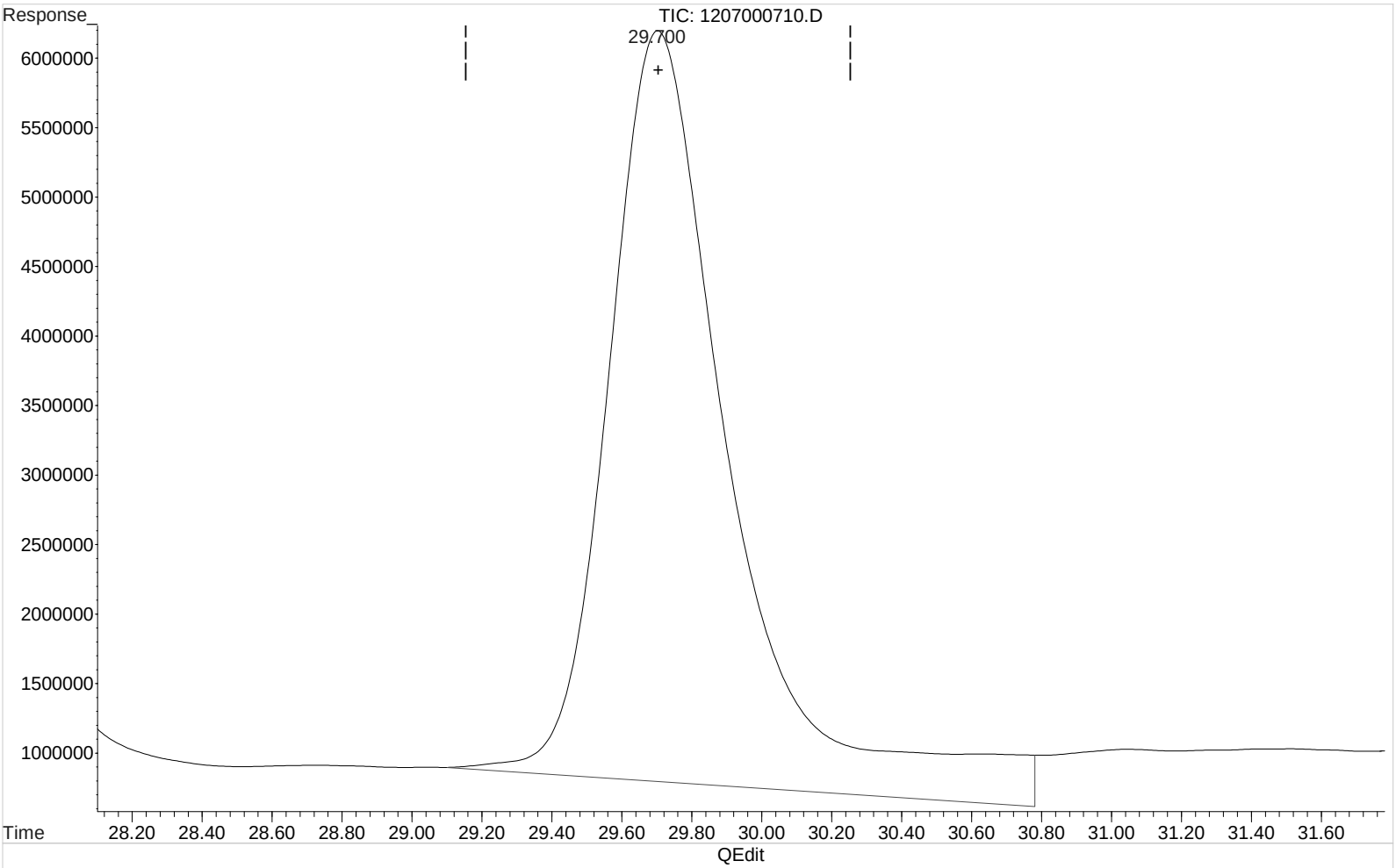
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:03 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

29.700min 2259.280 ug/L

response 131476903

Manual Integration:

Before

12/08/16

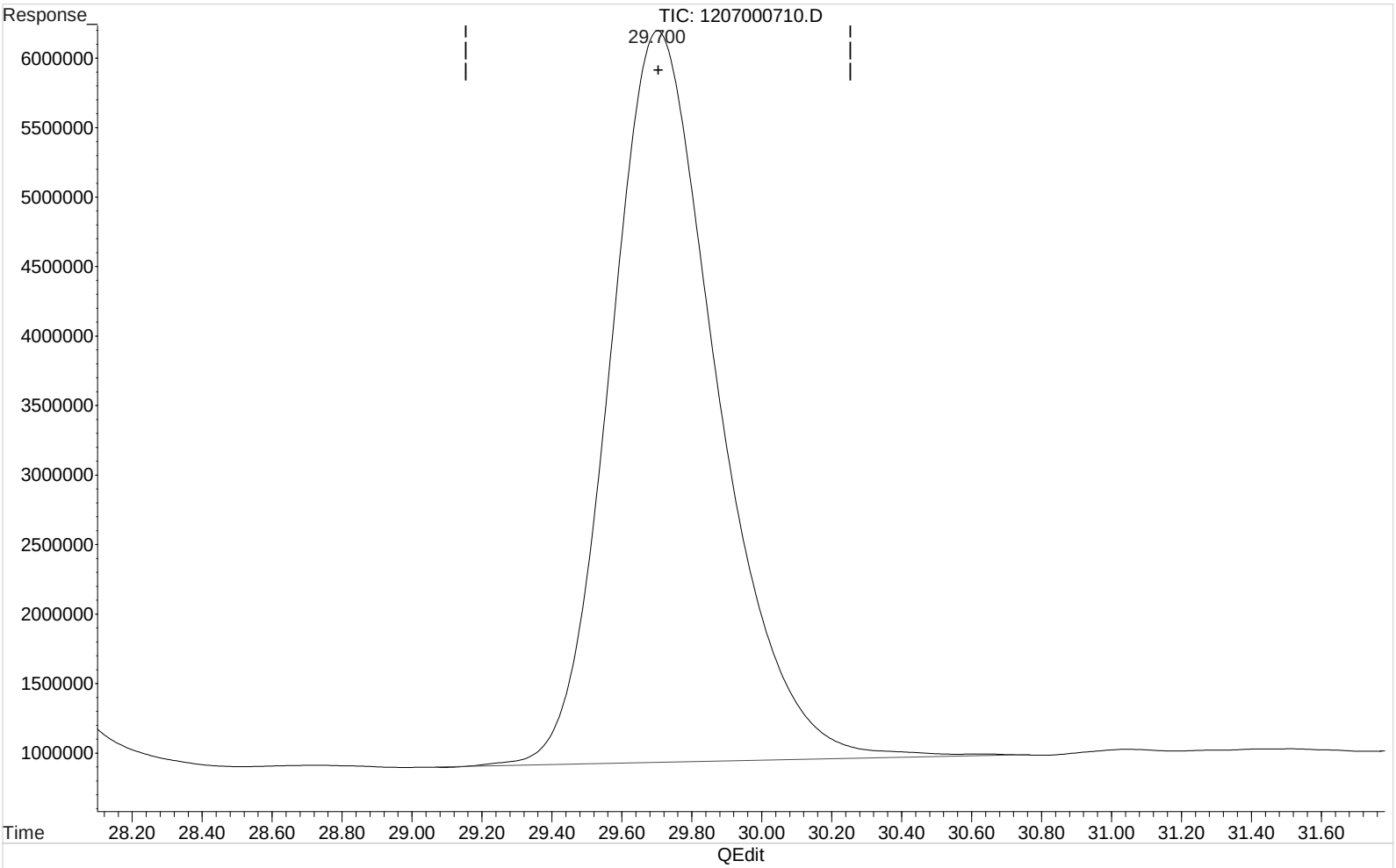
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:03 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

29.700min 1931.234 ug/L m

response 112386573

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:08:50 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.688	288614109	4988.087	ug/L	m
Target Compounds						
1) T	Nitroglycerin	16.621	108352662	4955.731	ug/L	m
2) T	PETN	27.781	89947543	4660.595	ug/L	m

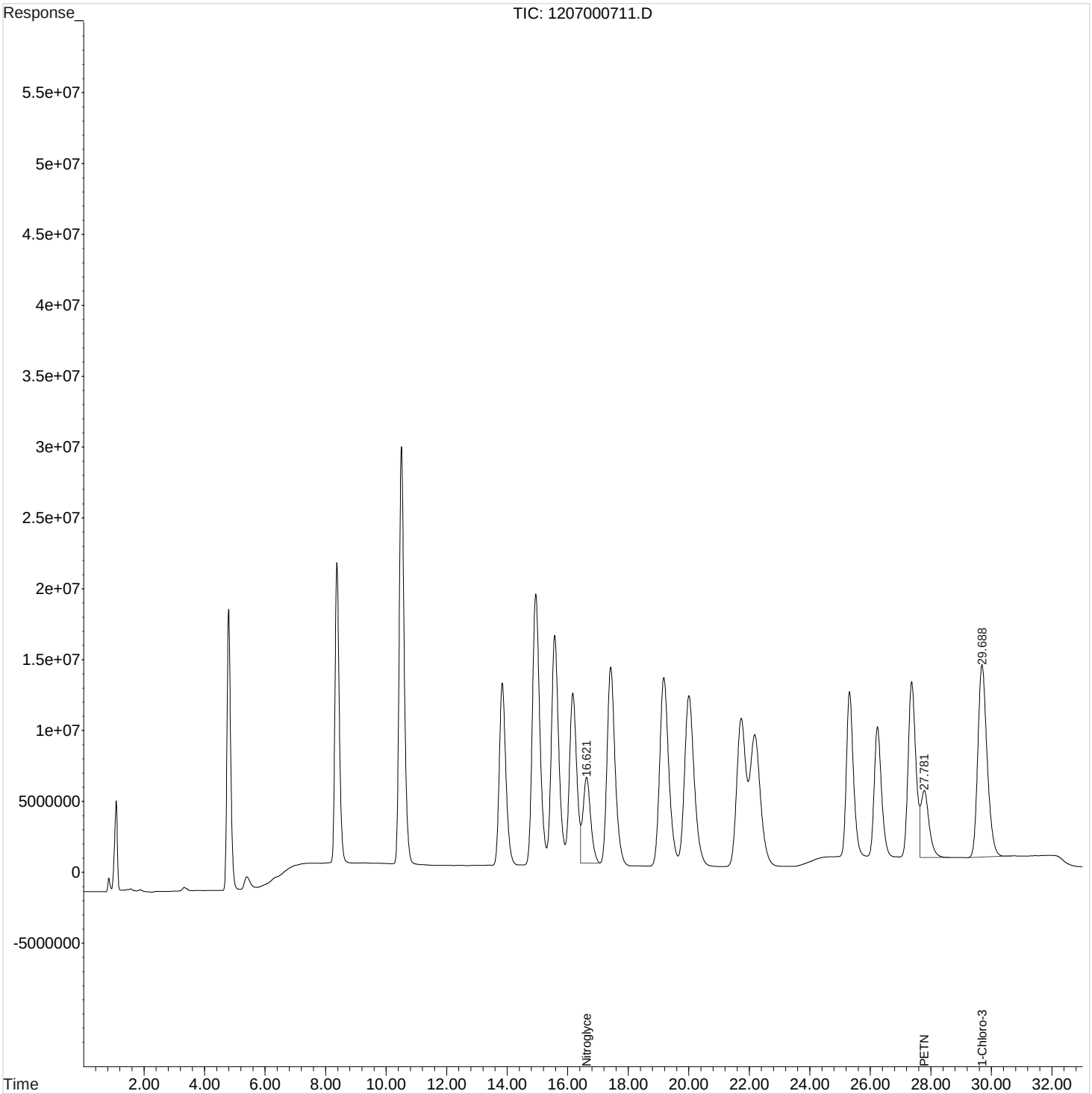
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:08:50 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

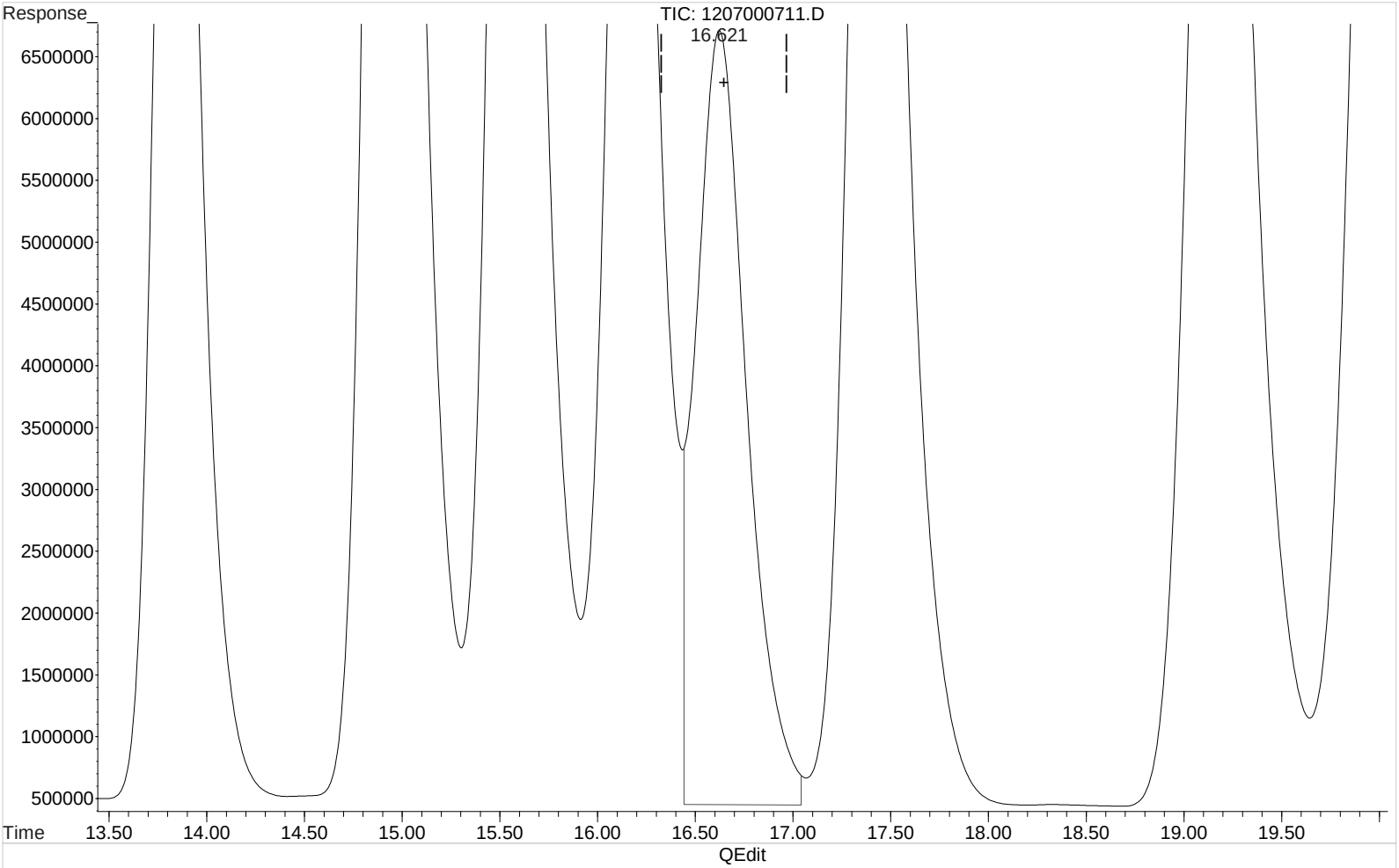


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:35:15 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.621min 5145.490 ug/L

response 112501565

Manual Integration:

Before

12/08/16

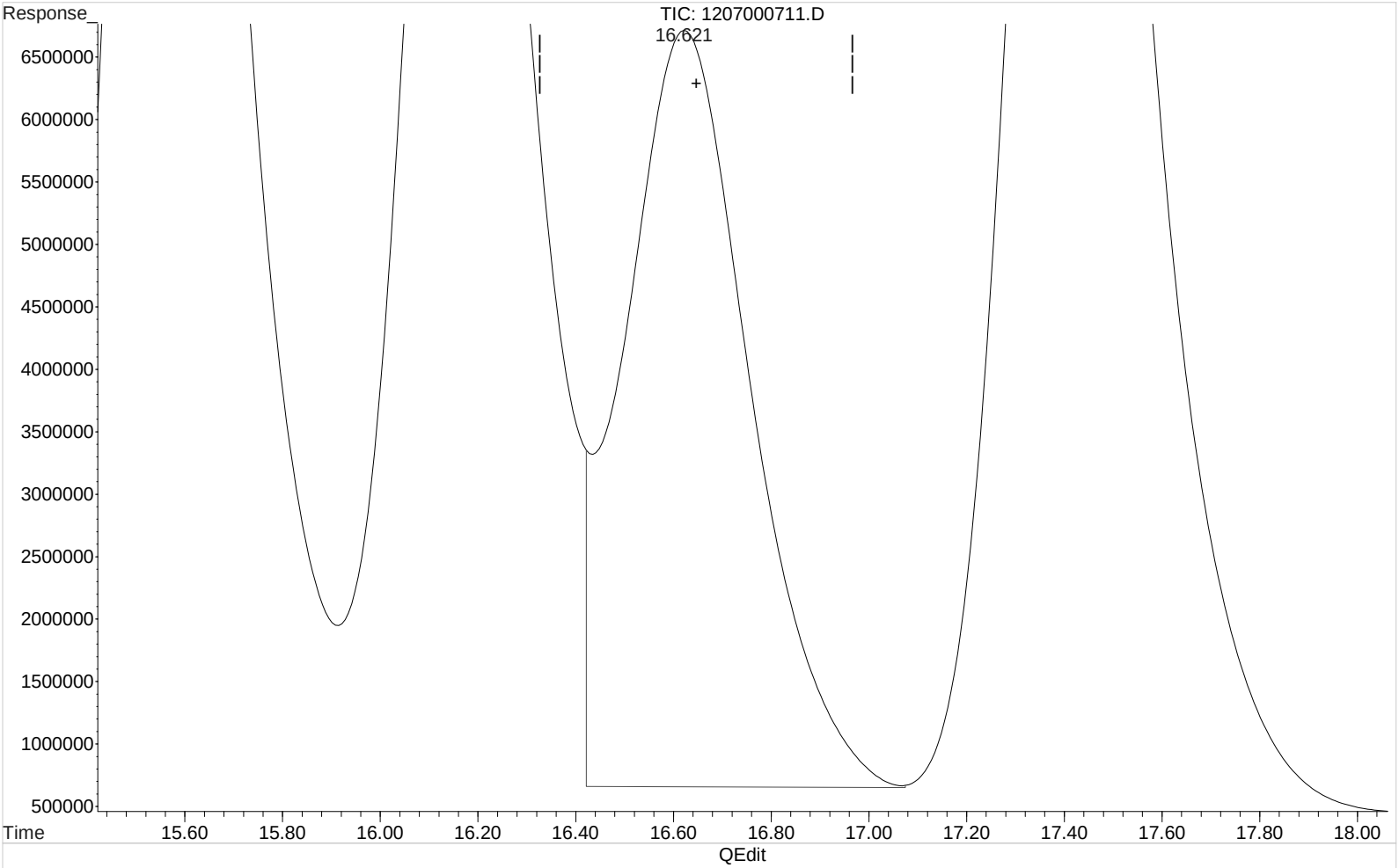
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:36:52 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.621min 4955.731 ug/L m

response 108352662

Manual Integration:

After

Baseline/Shoulder

12/08/16

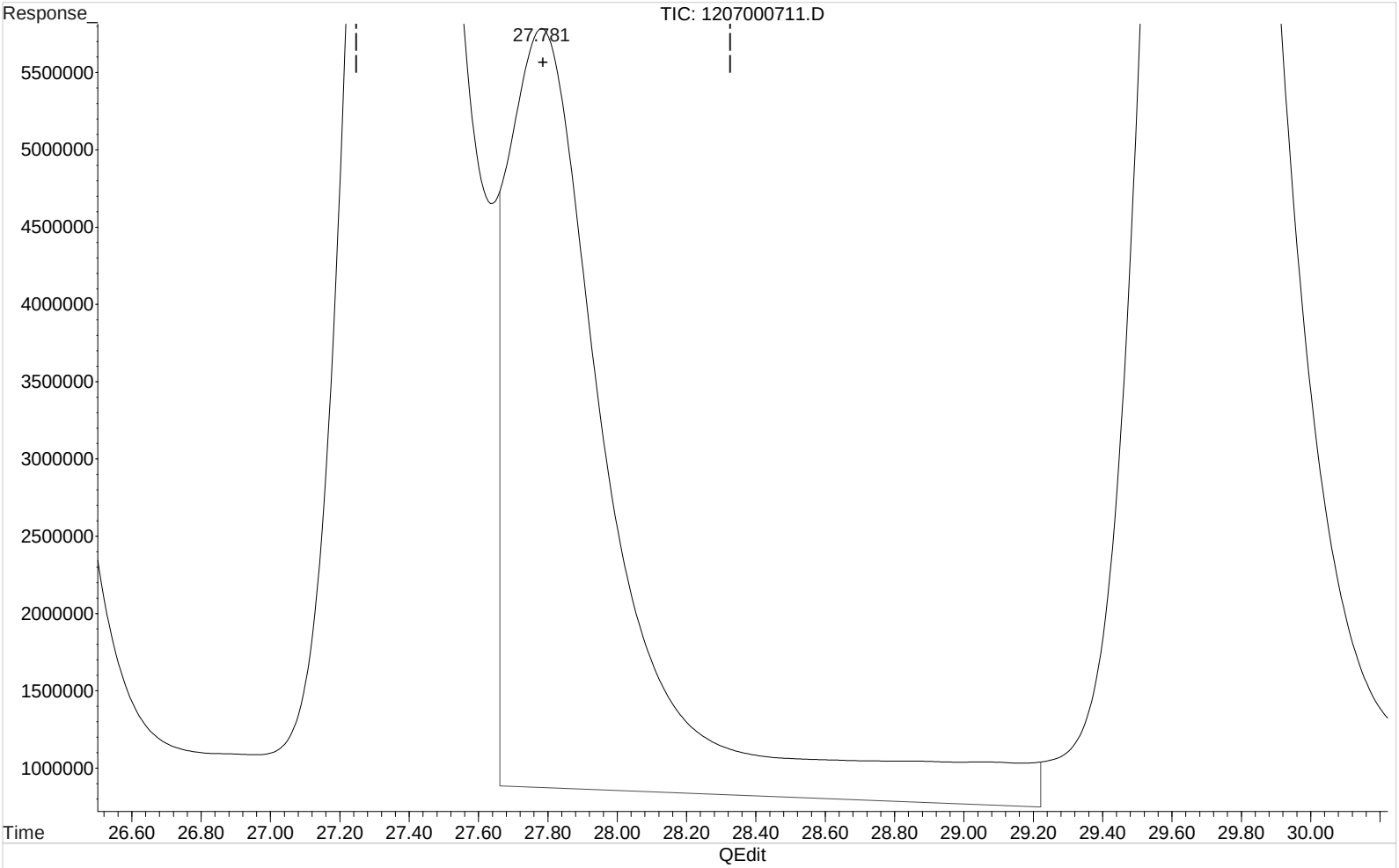
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:35:15 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.781min 5440.778 ug/L

response 105004749

Manual Integration:

Before

12/08/16

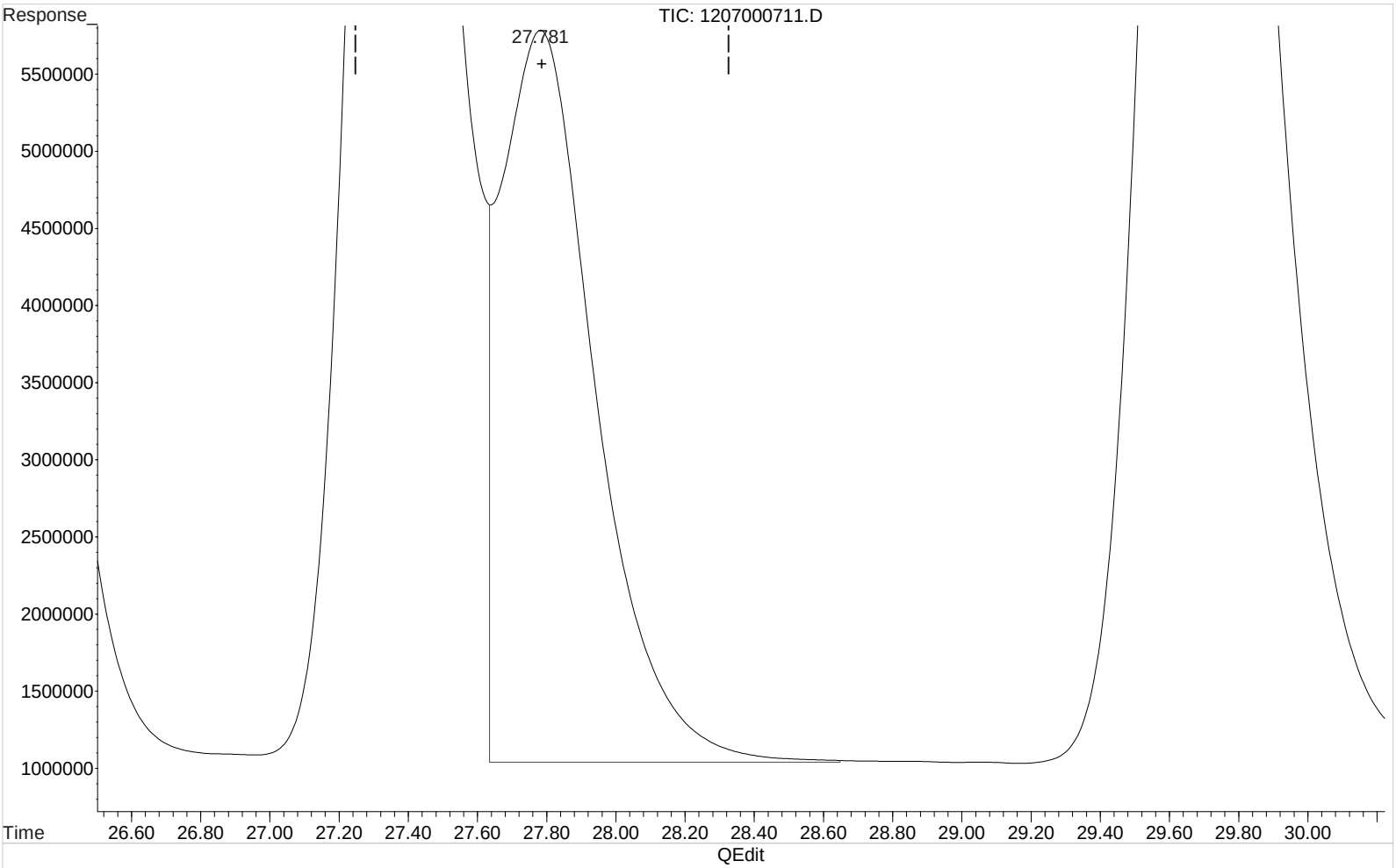
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:35:15 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.781min 4660.595 ug/L m

response 89947543

Manual Integration:

After

BLC

12/08/16

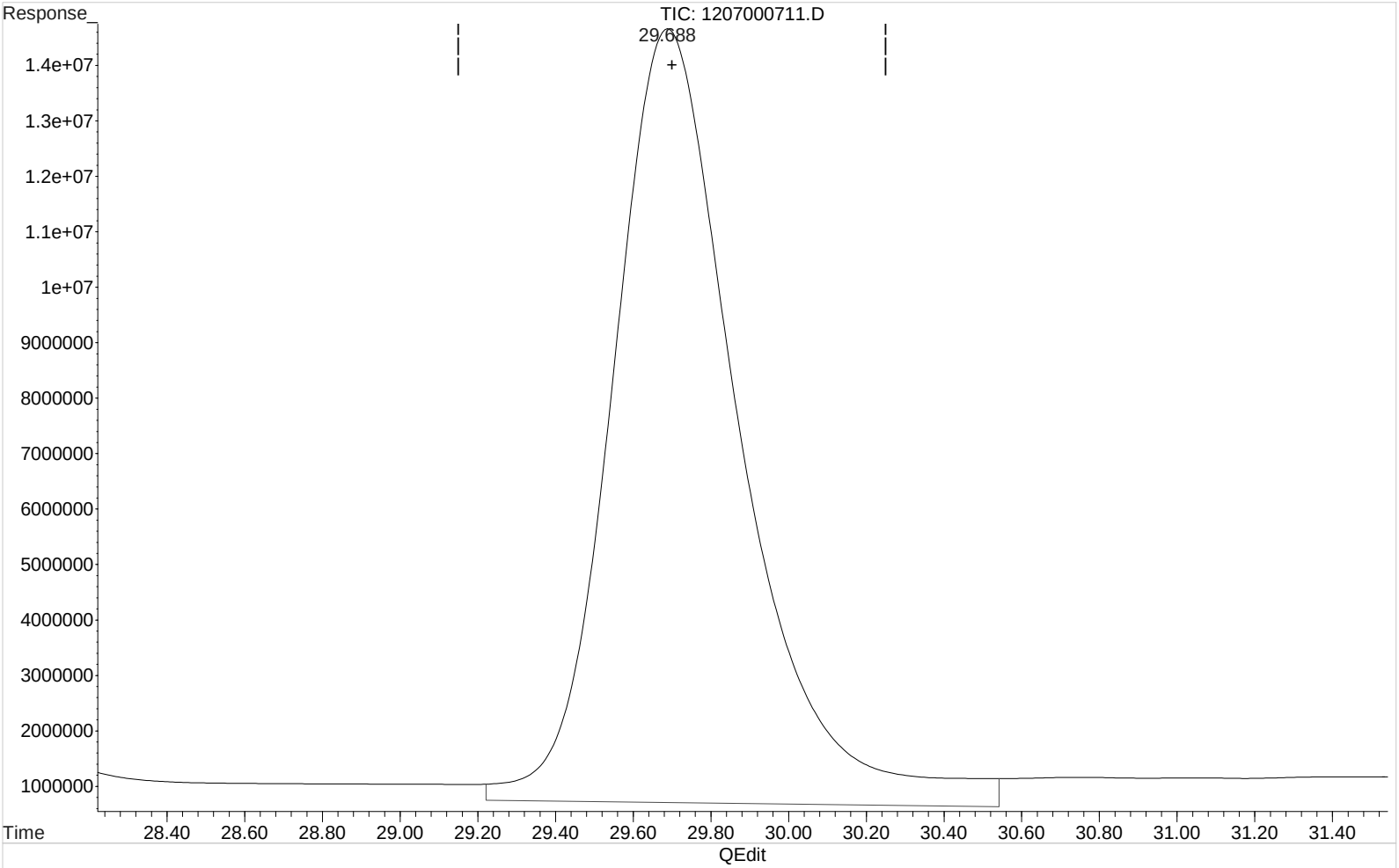
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:35:15 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.688min 5541.212 ug/L

response 320618313

Manual Integration:

Before

12/08/16

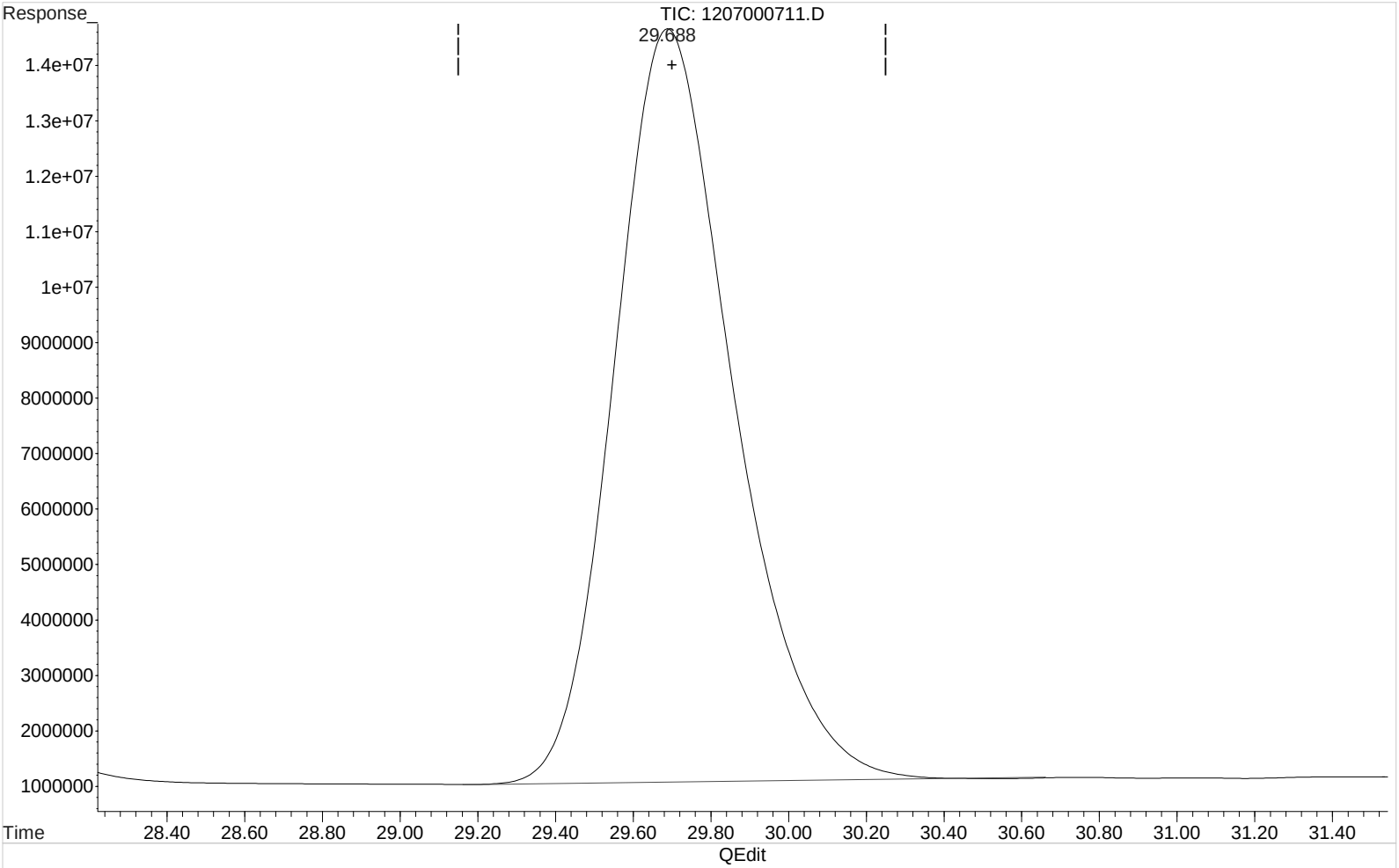
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:35:15 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

29.688min 4988.087 ug/L m

response 288614109

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000712.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:09:08 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:37:03 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.704	495774702	8571.338	ug/L	
Target Compounds						
1) T	Nitroglycerin	16.638	204600197	9302.543	ug/L	m
2) T	PETN	27.791	173278128	9066.254	ug/L	m

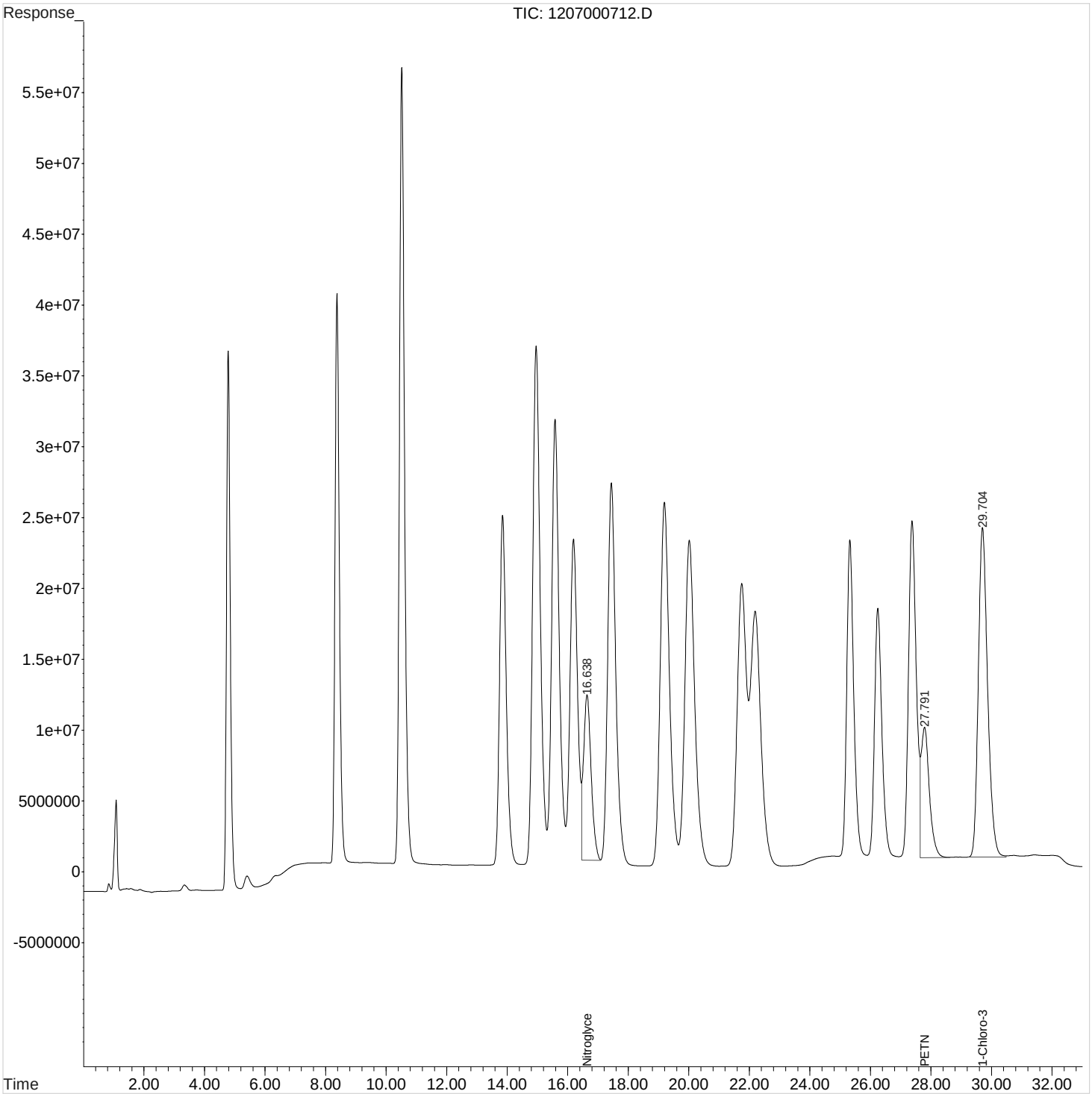
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000712.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:09:08 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:37:03 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(b) (6)

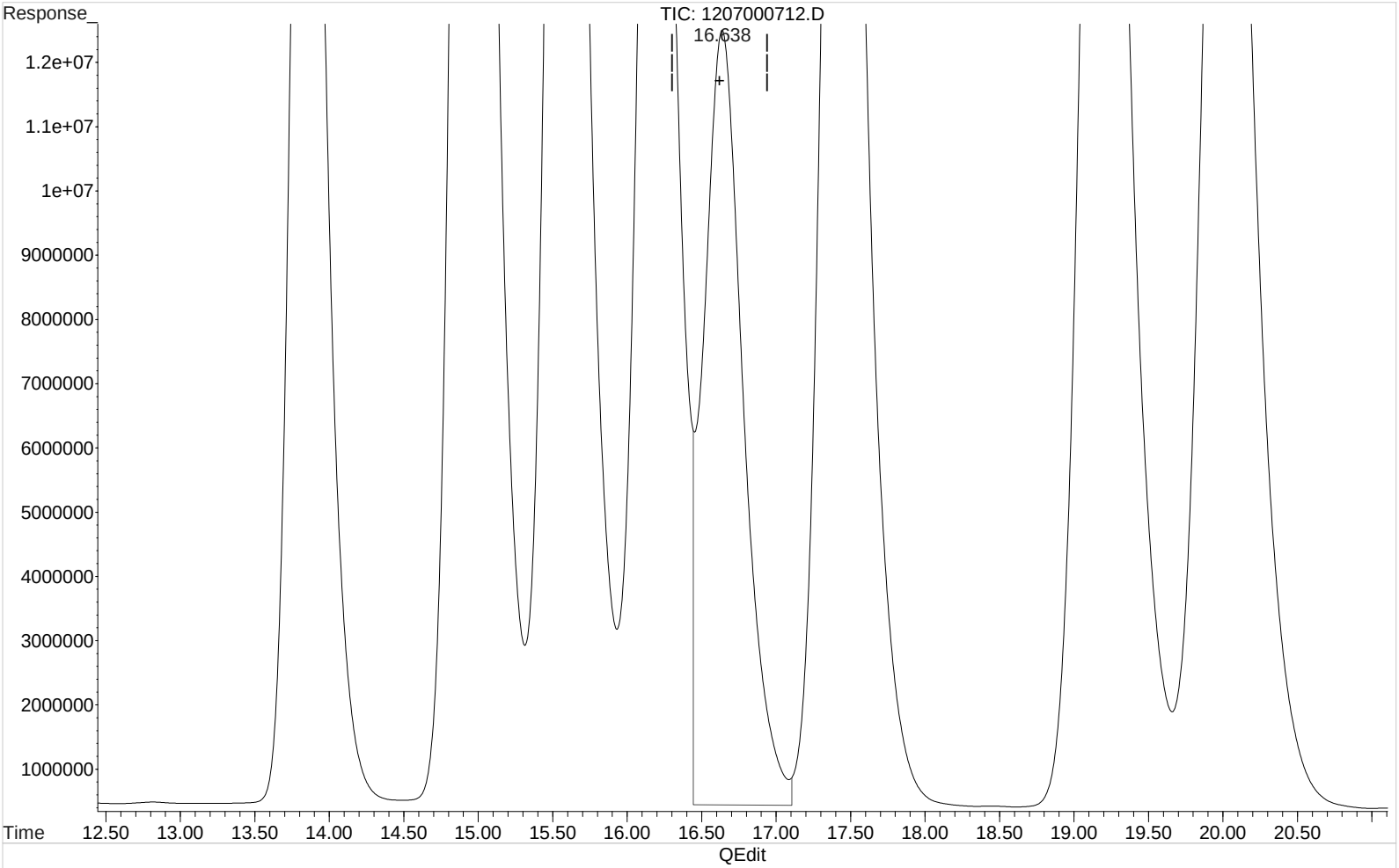
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000712.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:37:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:37:03 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.638min 10174.148 ug/L

response 223770282

Manual Integration:

Before

12/08/16

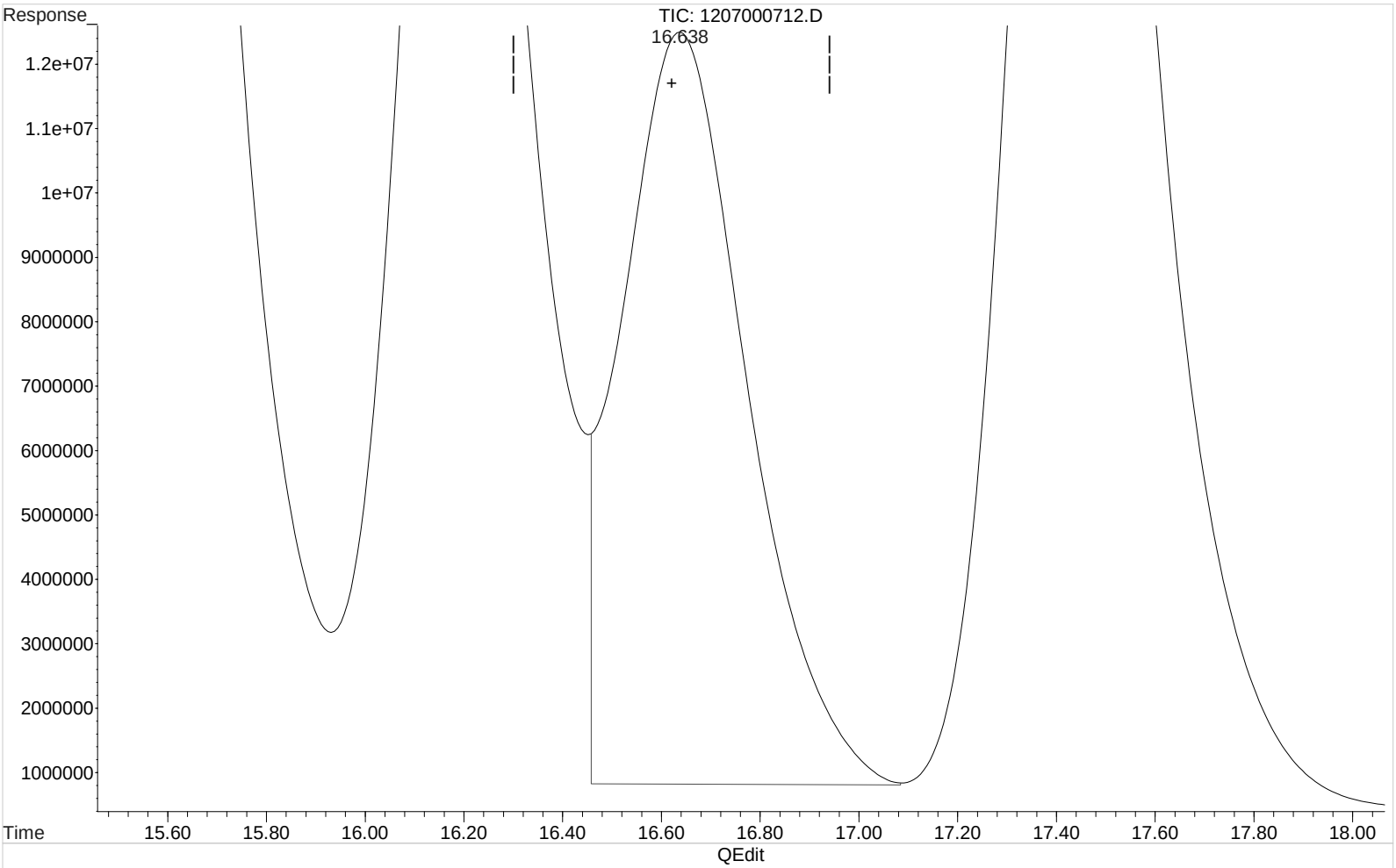
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000712.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:38:00 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:37:03 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.638min 9302.543 ug/L m

response 204600197

Manual Integration:

After

Baseline/Shoulder

12/08/16

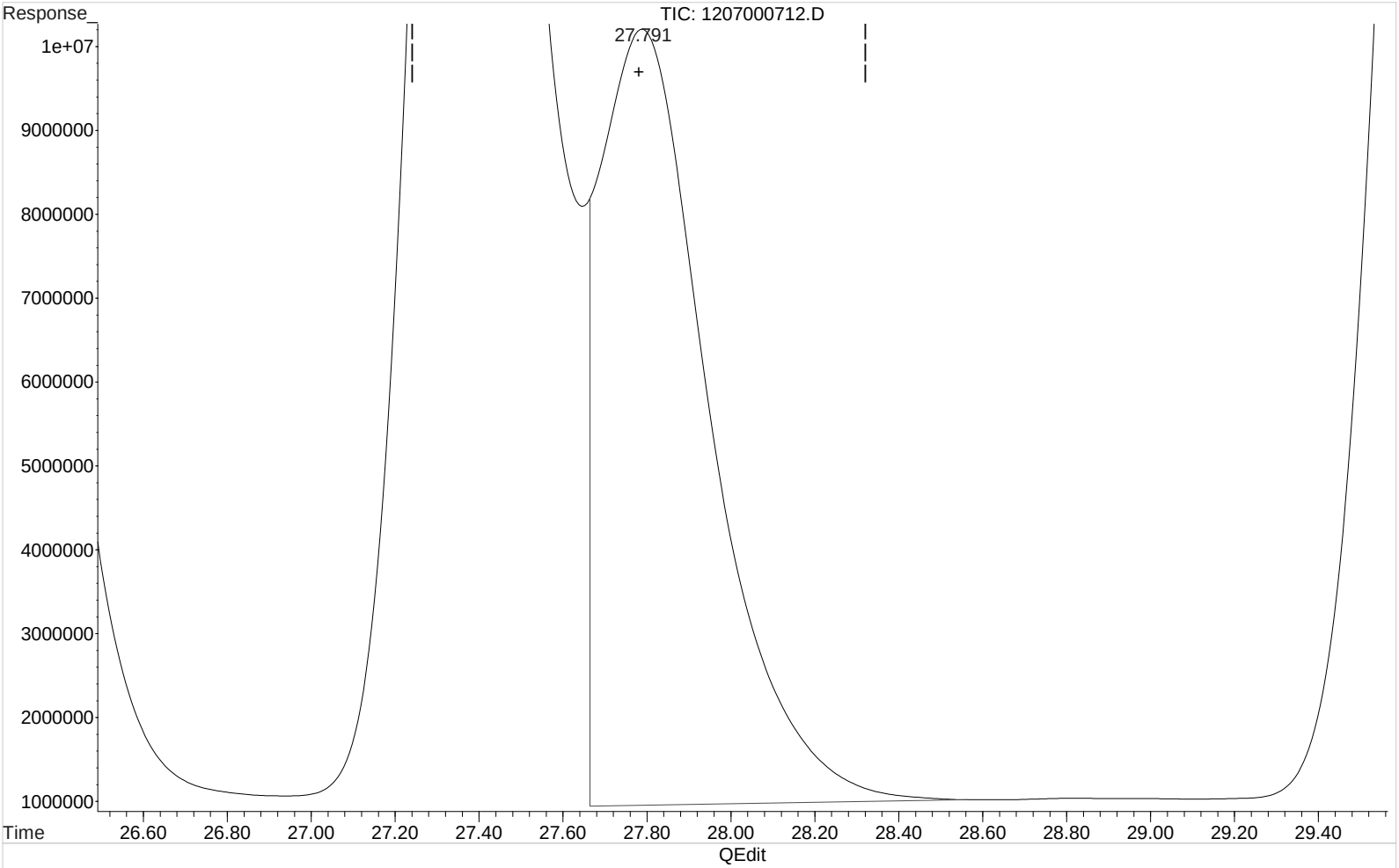
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000712.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:37:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:37:03 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.791min 8680.900 ug/L

response 165913087

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

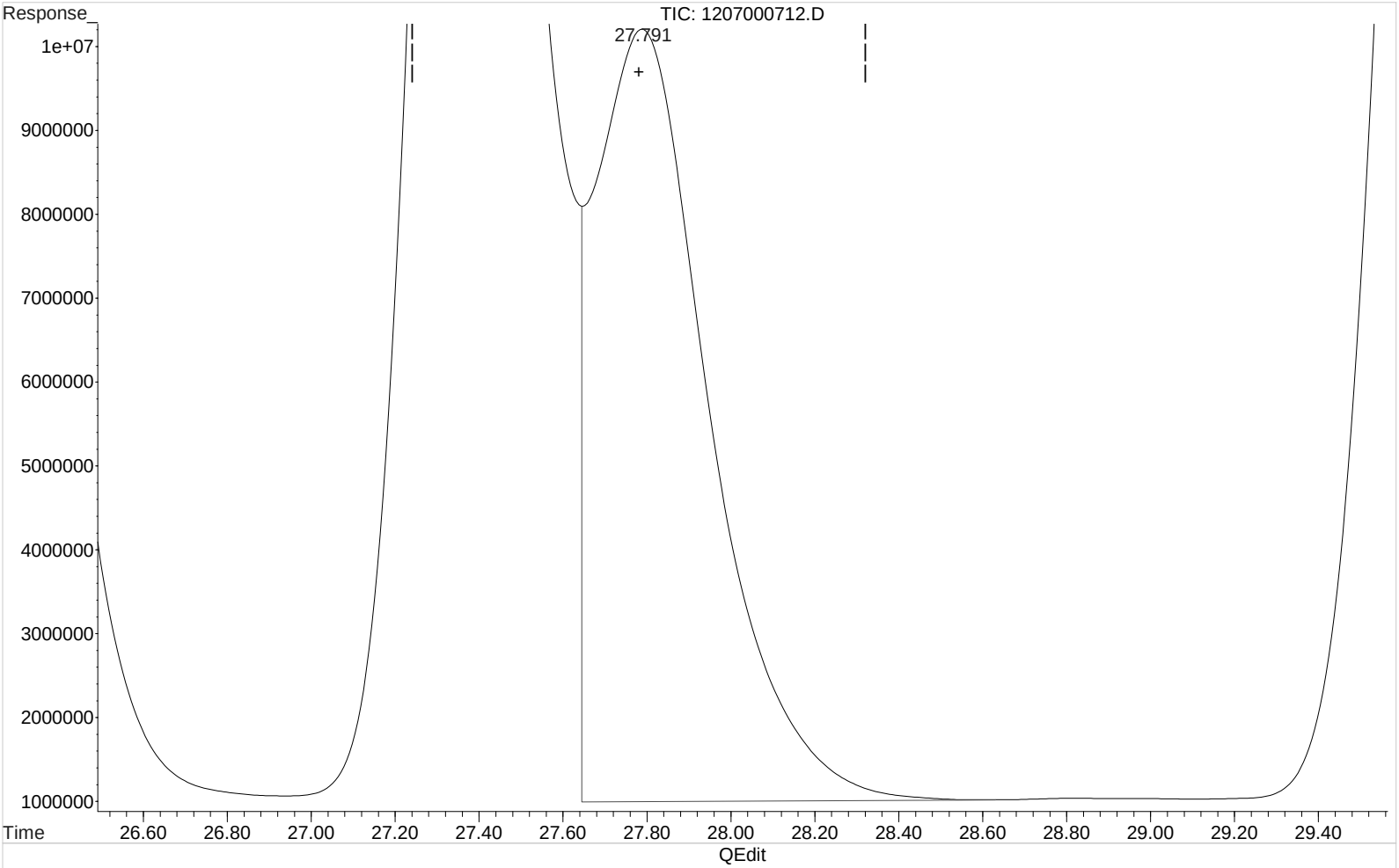
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000712.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:37:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:37:03 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.791min 9066.254 ug/L m

response 173278128

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000713.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:09:26 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:38:20 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	29.704	1145844586	20170.461 ug/L
Target Compounds				
1) T	Nitroglycerin	16.624	424970178	19359.201 ug/L m
2) T	PETN	27.797	360374404	19078.177 ug/L m

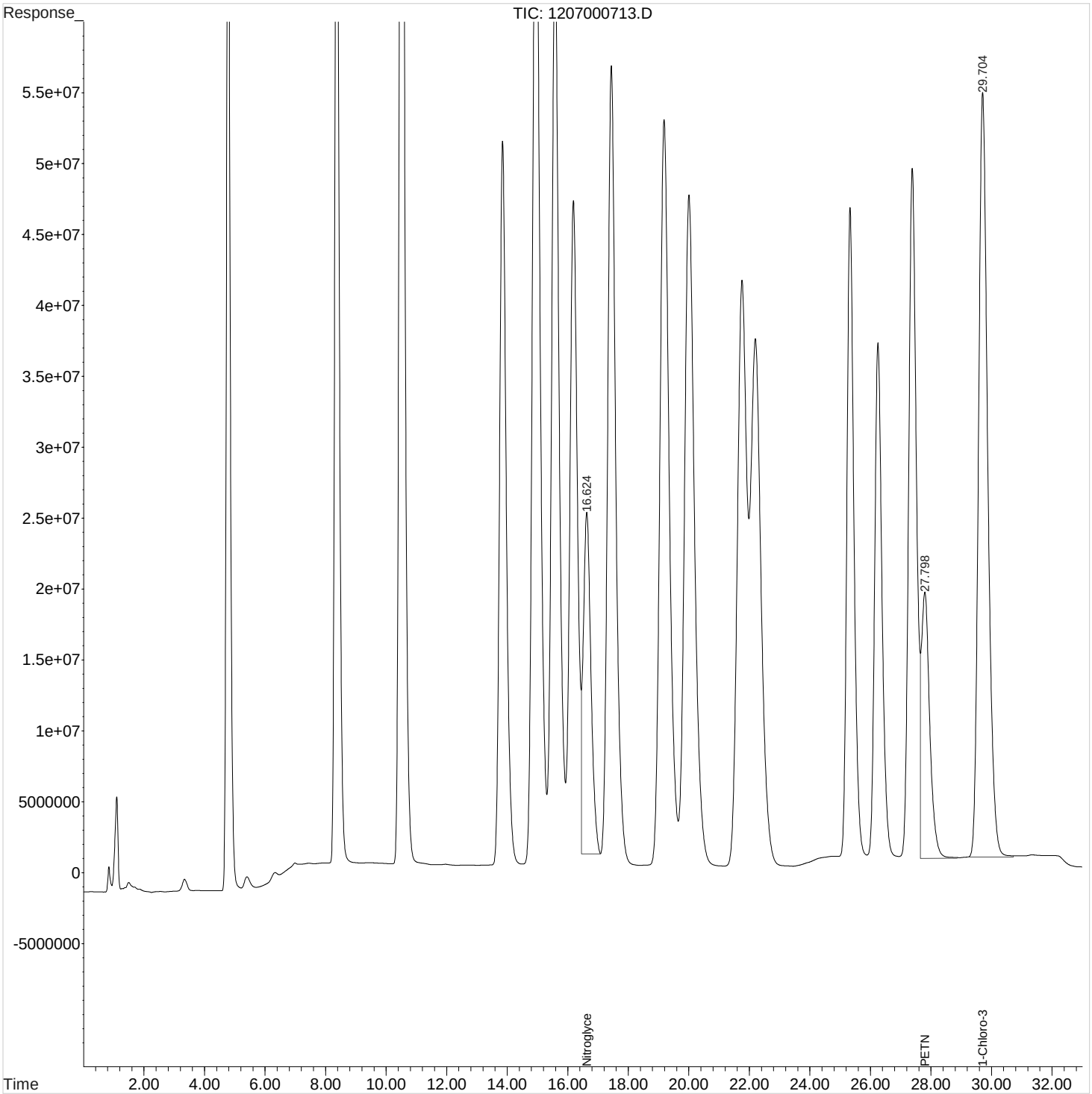
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000713.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:09:26 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:38:20 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

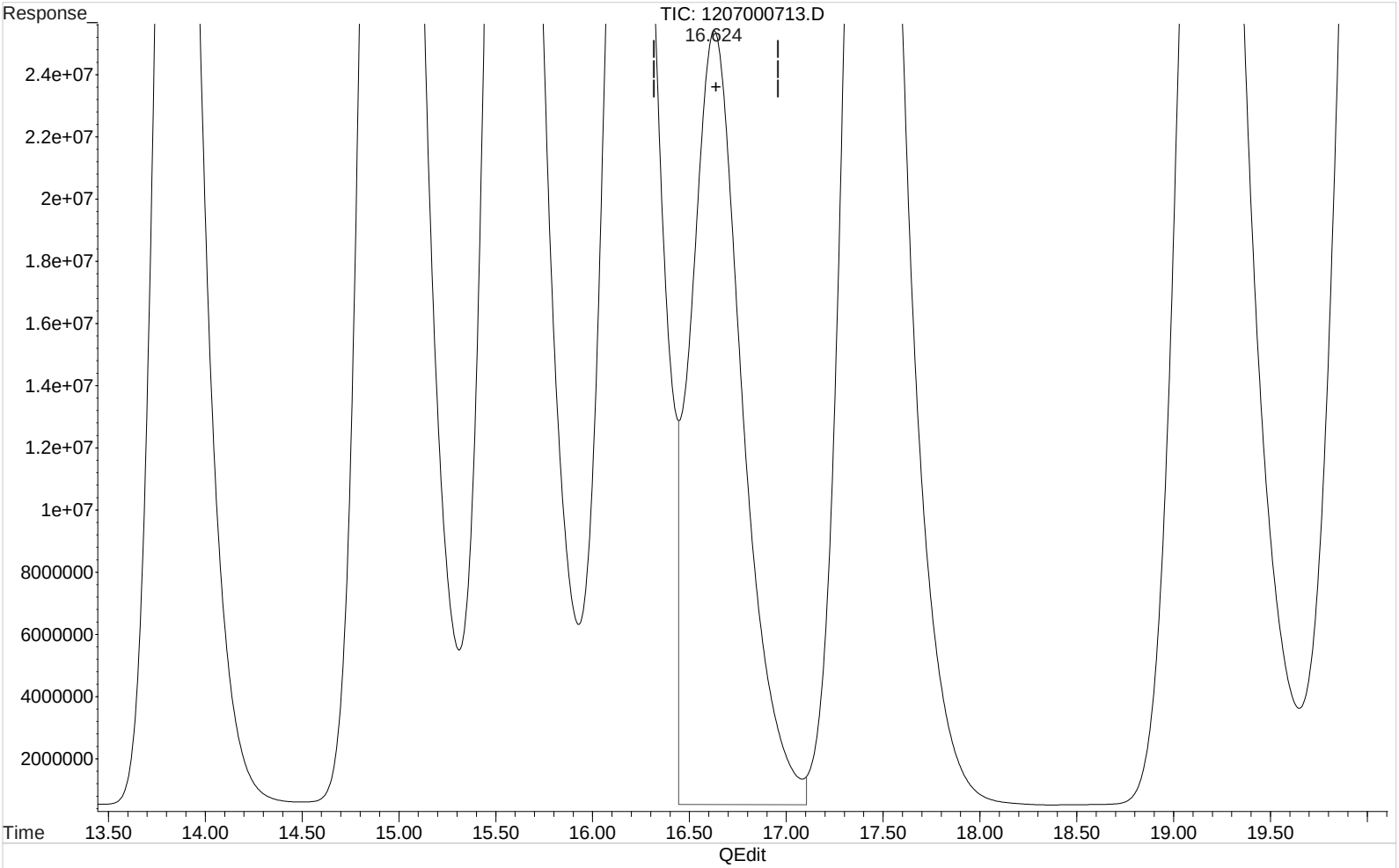


(b) (6)
1st /08/16
2nd /09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000713.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:38:32 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:38:20 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.624min 21000.929 ug/L

response 461009128

Manual Integration:

Before

12/08/16

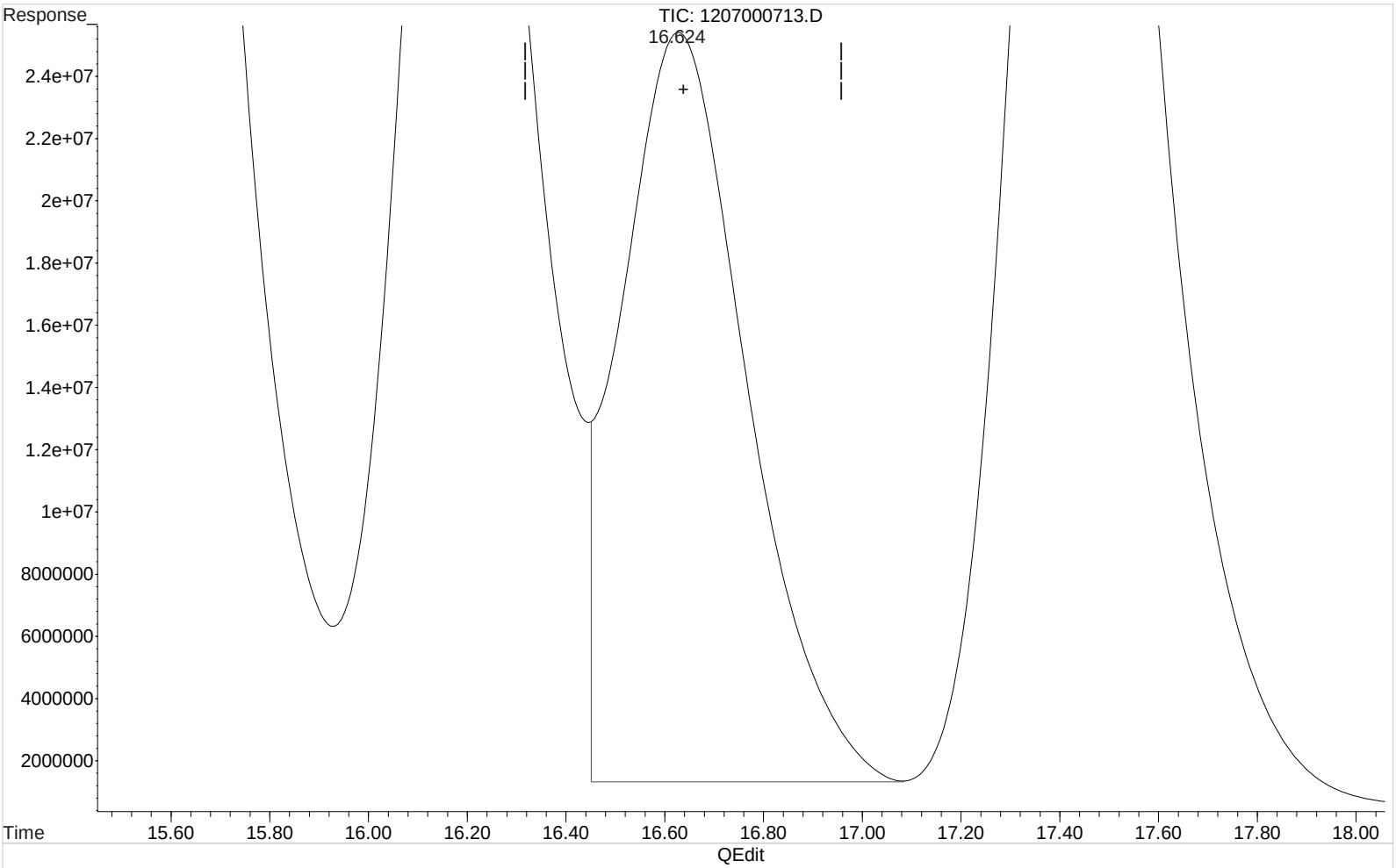
(+) = Expected Retention Time

1st (b) (6) 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000713.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:39:06 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:38:20 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.624min 19359.201 ug/L m

response 424970178

Manual Integration:

After

Baseline/Shoulder

12/08/16

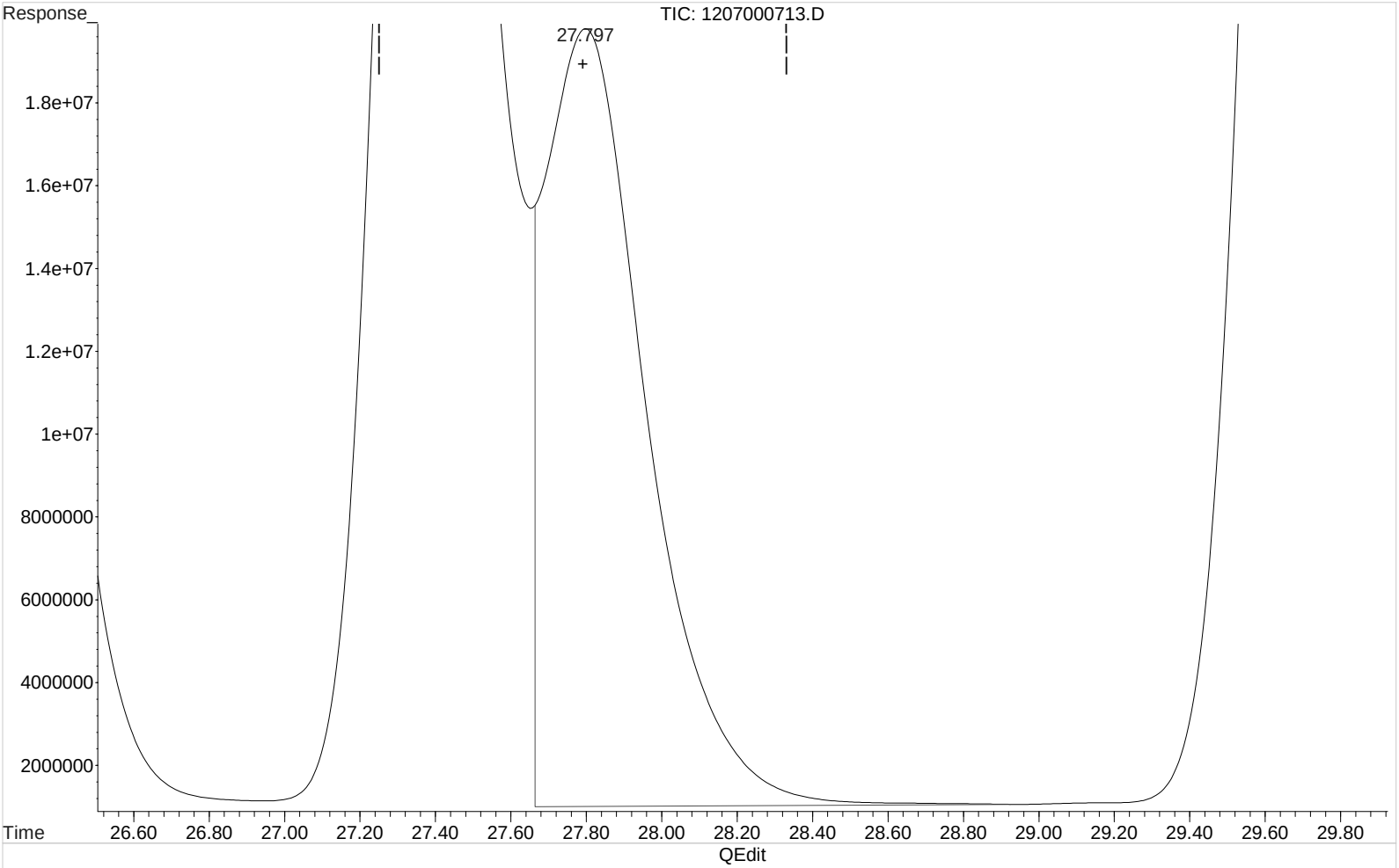
(+) = Expected Retention Time

(b) (6)
1st 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000713.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:38:32 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:38:20 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.797min 18418.928 ug/L

response 347921609

Manual Integration:

Before

12/08/16

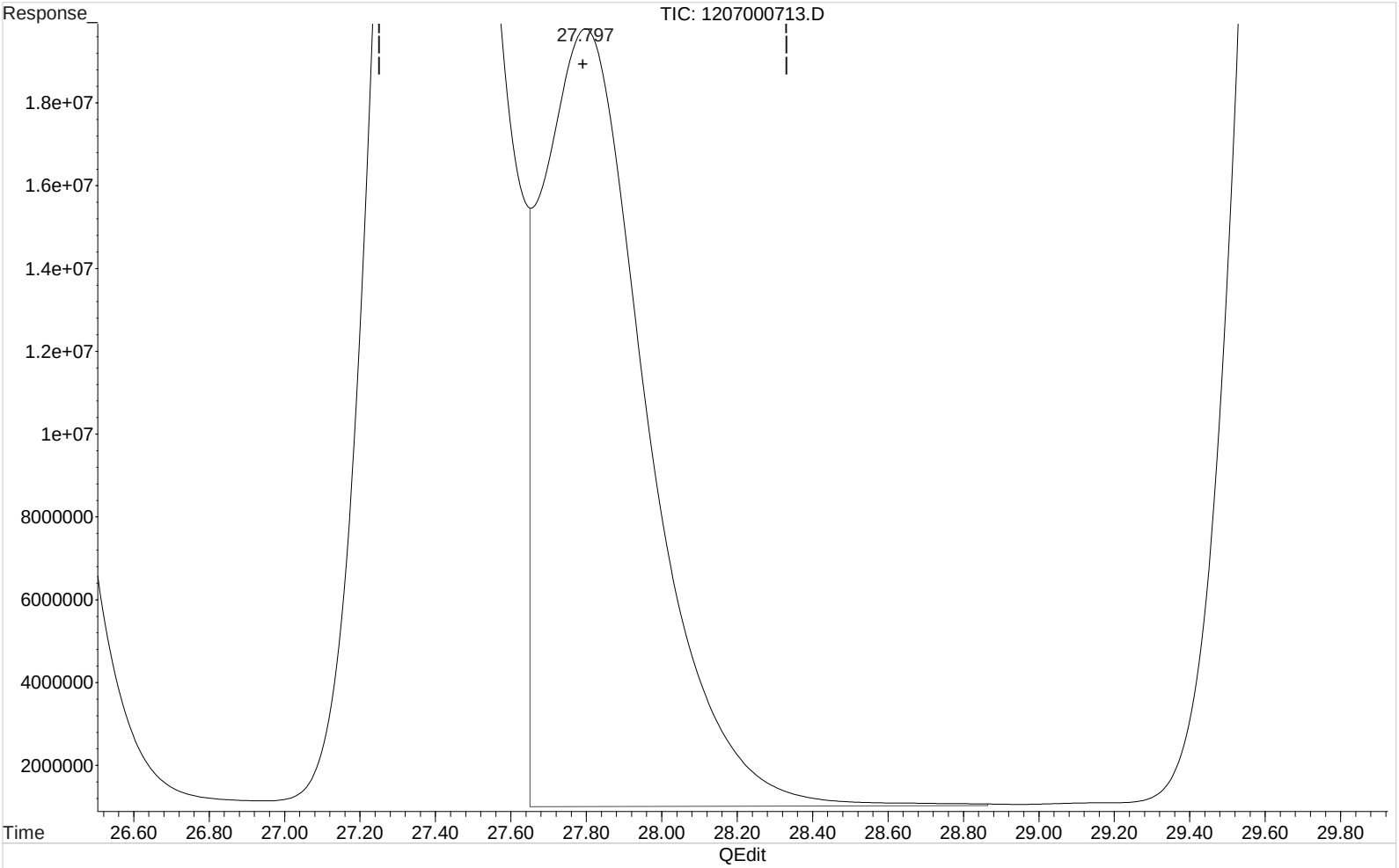
(+) = Expected Retention Time

(b) (6)
1st [redacted] /08/16
2nd [redacted] /09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000713.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:38:32 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:38:20 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.797min 19078.177 ug/L m

response 360374404

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000715.D Vial: 13
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:31:00 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:30:11 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
3) S	1-Chloro-3-Nitrobenzene	29.691	470830412	8280.252	ug/L
Target Compounds					
1) T	Nitroglycerin	16.637	193613600	9287.498	ug/L m
2) T	PETN	27.778	158765185	9023.071	ug/L m

(f)=RT Delta > 1/2 Window (m)=manual int.

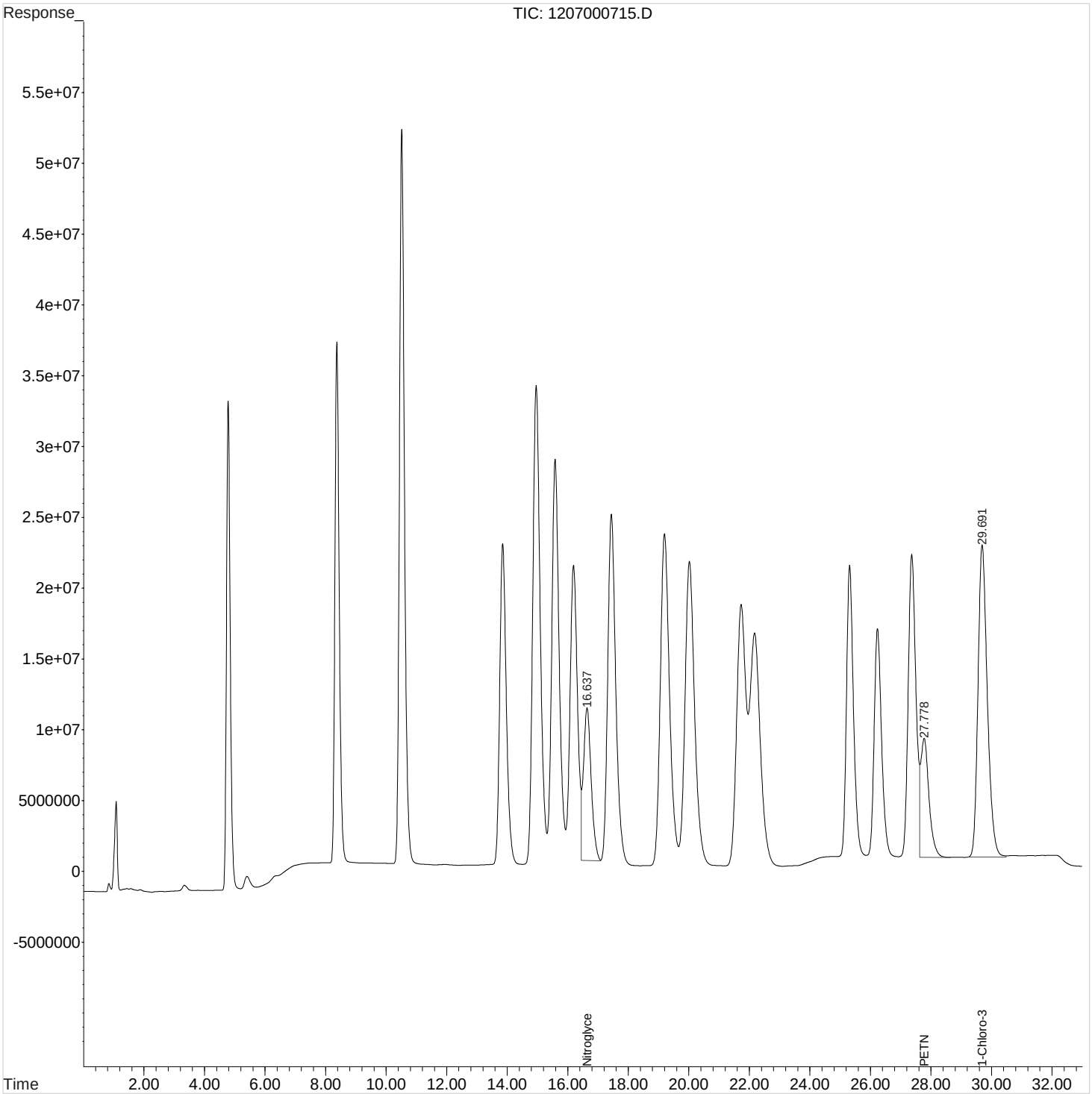
Quantitation Report (QT Reviewed)

1st (b) (6) 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000715.D Vial: 13
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:31:00 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:30:11 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

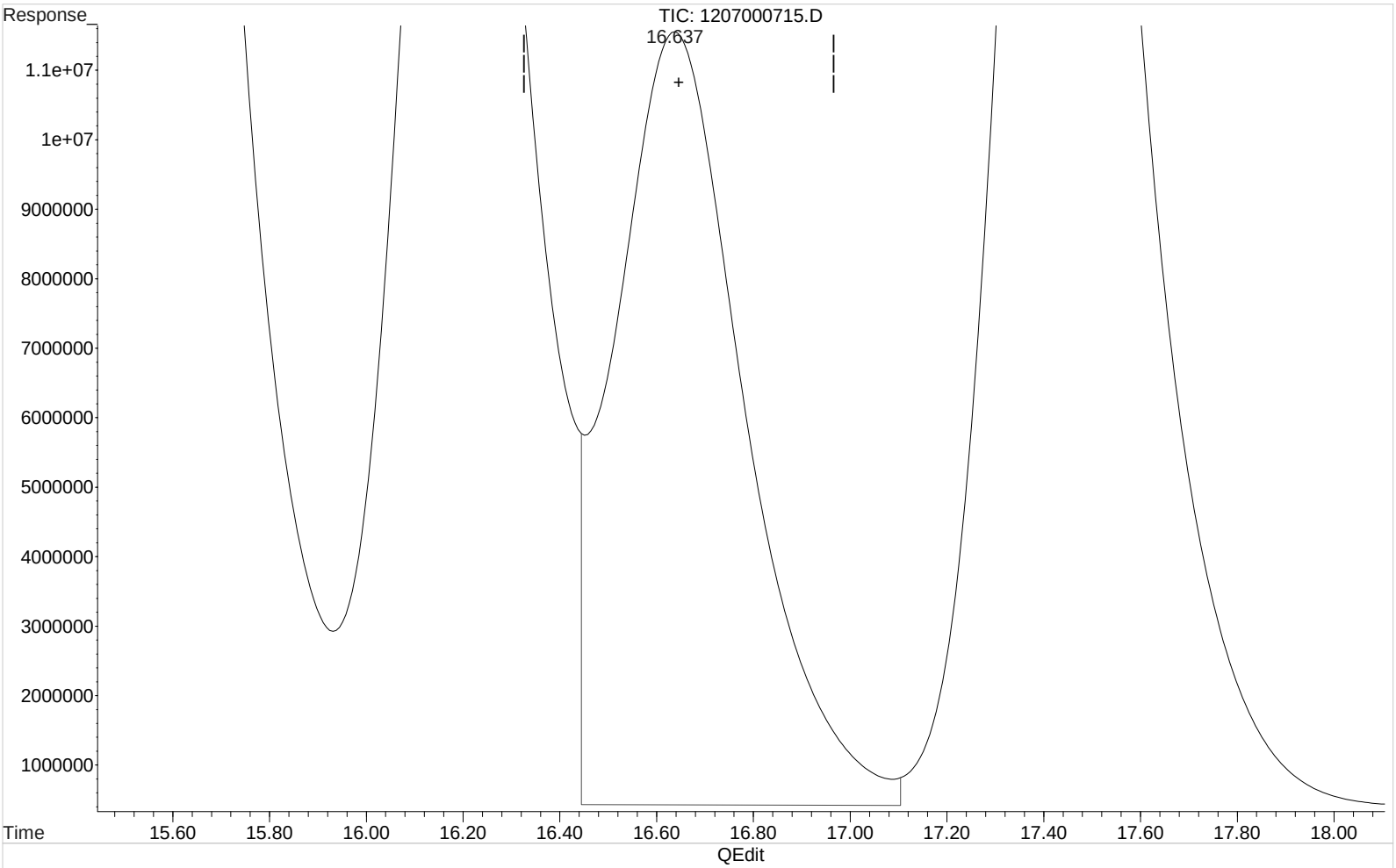


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000715.D Vial: 13
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:30:40 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:30:11 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.637min 9917.726 ug/L

response 206751766

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

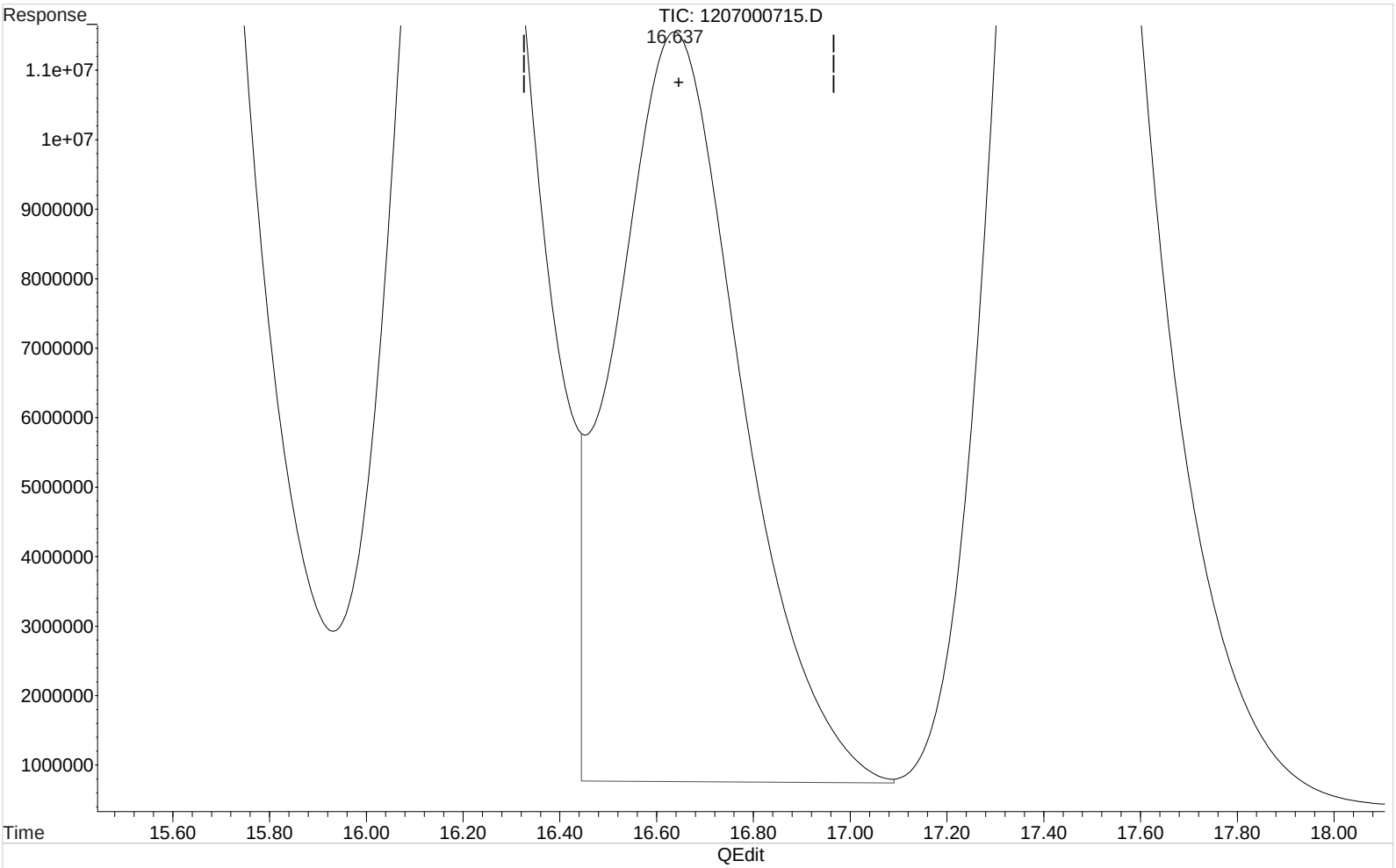
Quantitation Report (Qedit)

(b)
(6)
1st 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000715.D Vial: 13
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:30:40 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:30:11 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.637min 9287.498 ug/L m

response 193613600

Manual Integration:

After

Baseline/Shoulder

12/08/16

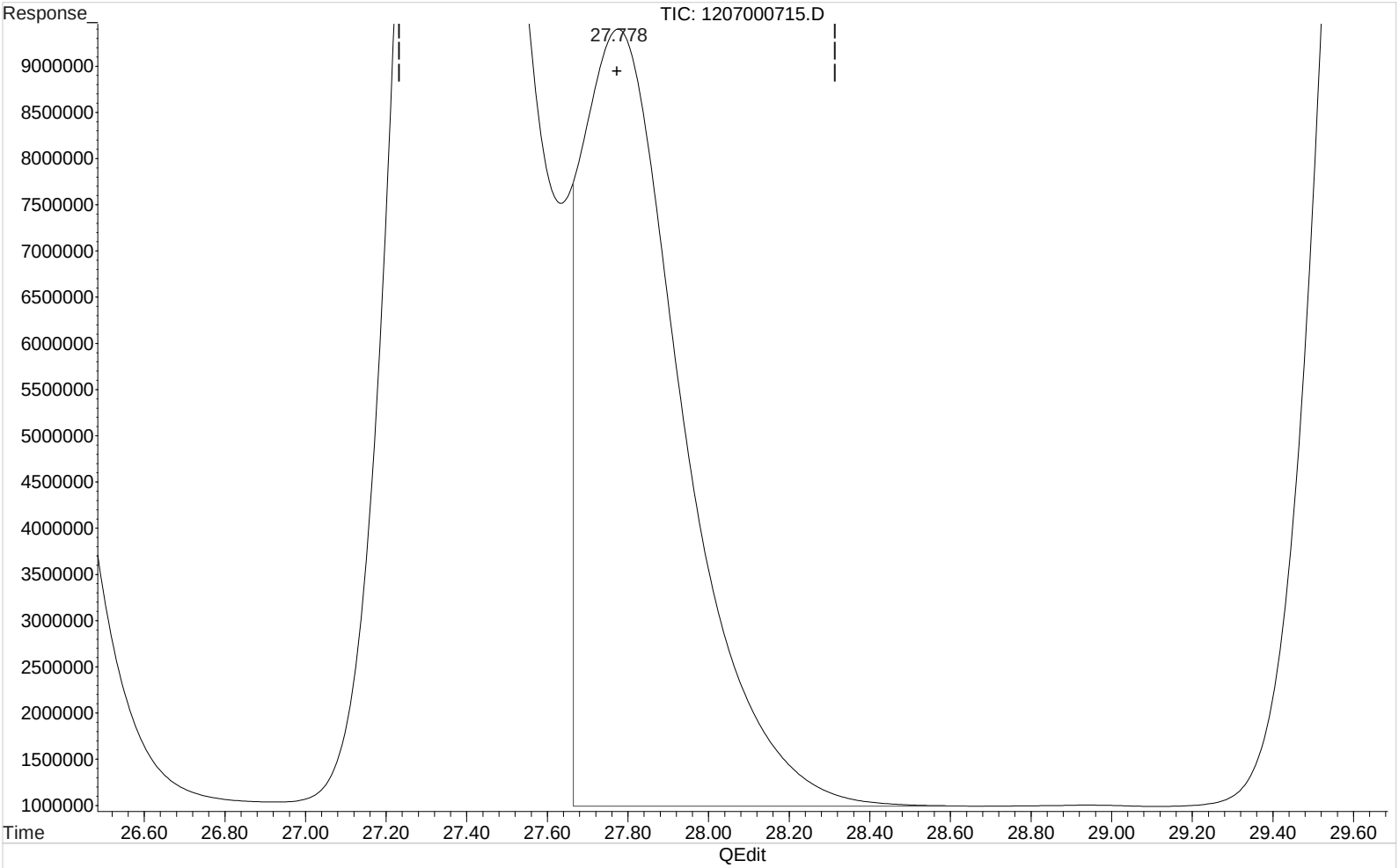
(+) = Expected Retention Time

(b) (6)
1st 2/08/16
2n 2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000715.D Vial: 13
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:30:40 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:30:11 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.778min 8252.774 ug/L

response 145211446

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

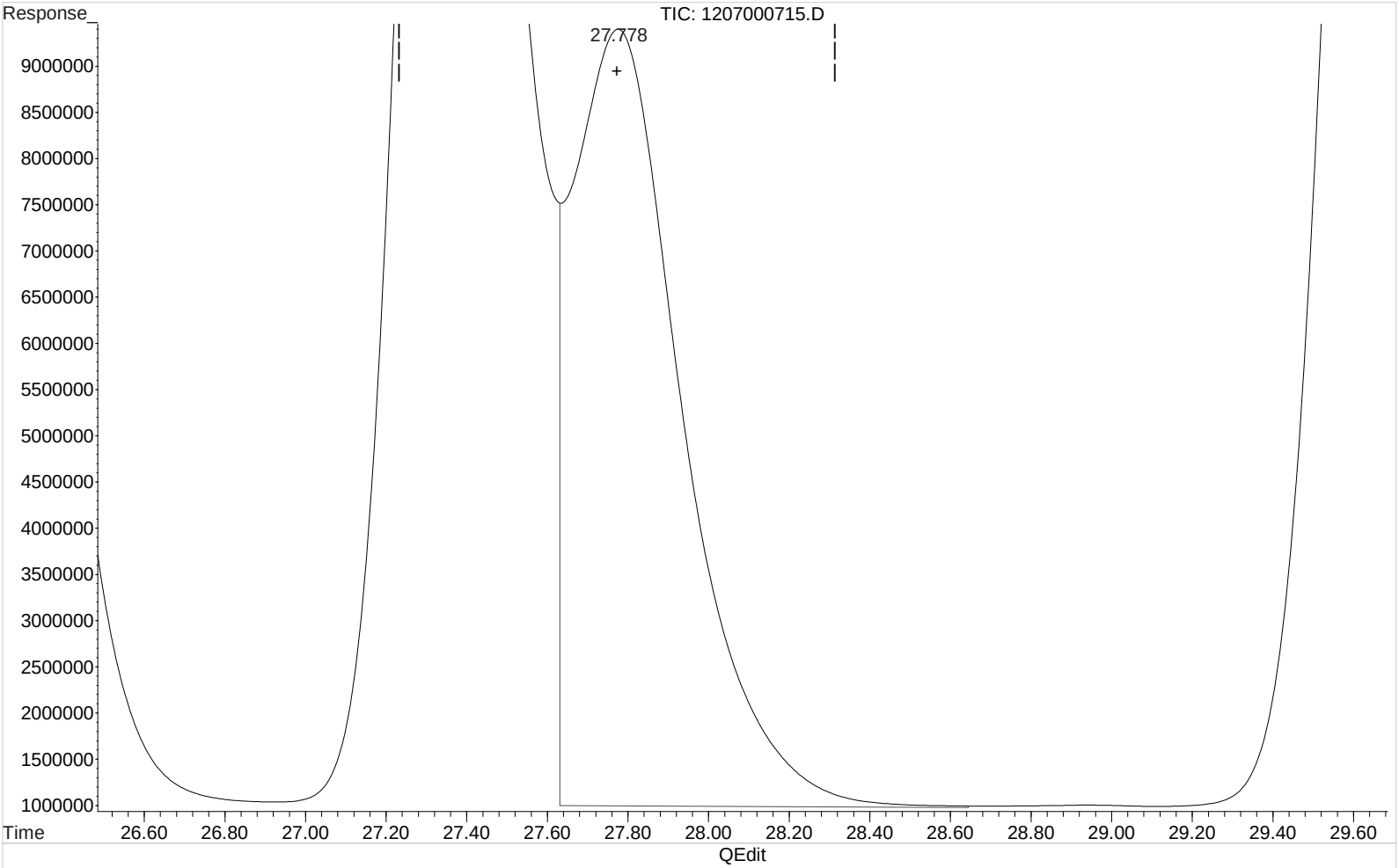
Quantitation Report (Qedit)

(b) (6)
1st 2/08/16
2n 2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000715.D Vial: 13
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:30:40 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:30:11 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.778min 9023.071 ug/L m

response 158765185

Manual Integration:

After

Baseline/Shoulder

12/08/16

(+) = Expected Retention Time

Date: 12/7/2016 **ALS Kelso, WA** **ICAL Date:** 12/7/2016

By: AE **Injection Log** **ICAL ID:** (254)-15062 (210)-15063

Stealth ID: n/a **LC10 - Agilent 1260** **LIMS ID:** **2nd Review:** n/a (b) (6)

Column: Phen. Synergi Hydro-RP 80A 250x4.6 mm SN 759076-19

Mobile Phases A: MeOH Lot#: 56175 **B:** ACN Lot#: 56165 **C:** H_2O Lot#: 56006 **D:**

	Sample Name	File Name	Method	Dilution	R	Comments
1		12070000101	8330BX+DIAMINOS.M	NA		
2		12070000102	8330BX+DIAMINOS.M	NA		
3		1207000202	8330BX+DIAMINOS.M	NA		
4		1207000203	8330BX+DIAMINOS.M	NA		
5		1207000204	8330BX+DIAMINOS.M	NA		
6		1207000205	8330BX+DIAMINOS.M	NA		
7		1207000206	8330BX+DIAMINOS.M	NA		
8		1207000207	8330BX+DIAMINOS.M	NA		
9		1207000303	8330BX+DIAMINOS.M	NA		
10		1207000404	8330BX+DIAMINOS.M	NA		
11		1207000405	8330BX+DIAMINOS.M	NA		
12		1207000505	8330BX+DIAMINOS.M	NA		
13		1207000601	8330BX+DIAMINOS.M	NA		
14		1207000602	8330BX+DIAMINOS.M	NA		
15		1207000603	8330BX+DIAMINOS.M	NA		
16		1207000701	8330BX+DIAMINOS.M	NA		
17		1207000702	8330BX+DIAMINOS.M	NA		
18	IB	1207000703	8330BX+DIAMINOS.M	NA	X	
19	16-OLC-01-89J 20 PPB	1207000704	8330BX+DIAMINOS.M	NA	X	
20	16-OLC-01-89I 50 PPB	1207000705	8330BX+DIAMINOS.M	NA	X	
21	16-OLC-01-89H 100 PPB	1207000706	8330BX+DIAMINOS.M	NA	X	
22	16-OLC-01-89G 200 PPB	1207000707	8330BX+DIAMINOS.M	NA	X	
23	16-OLC-01-89F 500 PPB	1207000708	8330BX+DIAMINOS.M	NA	X	
24	16-OLC-01-89E 1000 PPB	1207000709	8330BX+DIAMINOS.M	NA	X	
25	16-OLC-01-89D 2000 PPB	1207000710	8330BX+DIAMINOS.M	NA	X	
26	16-OLC-01-89C 5000 PPB	1207000711	8330BX+DIAMINOS.M	NA	X	
27	16-OLC-01-89B 10000 PPB	1207000712	8330BX+DIAMINOS.M	NA	X	
28	16-OLC-01-89A 20000 PPB	1207000713	8330BX+DIAMINOS.M	NA	X	
29	IB	1207000714	8330BX+DIAMINOS.M	NA	X	
30	16-OLC-01-89K 10000 PPB ICV	1207000715	8330BX+DIAMINOS.M	NA	X	

(Cal not valid for Diaminos)

R:\OLC\Injection Logs\LC10 2016\INJLOG_LC10_xl_120716_ICAL

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000703.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 19:36:44 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:24:49 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:23:13 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	0.000	0	N.D.	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	0.000	0	N.D.	ug/L
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L
6)	T	1,3-DNB	0.000	0	N.D.	ug/L
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8)	T	Tetryl	0.000	0	N.D.	ug/L
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13)	T	2,6-DNT	0.000	0	N.D.	ug/L
14)	T	2,4-DNT	0.000	0	N.D.	ug/L
15)	T	2-NT	0.000	0	N.D.	ug/L
16)	T	4-NT	0.000	0	N.D.	ug/L
17)	T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000703.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 19:36:44 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
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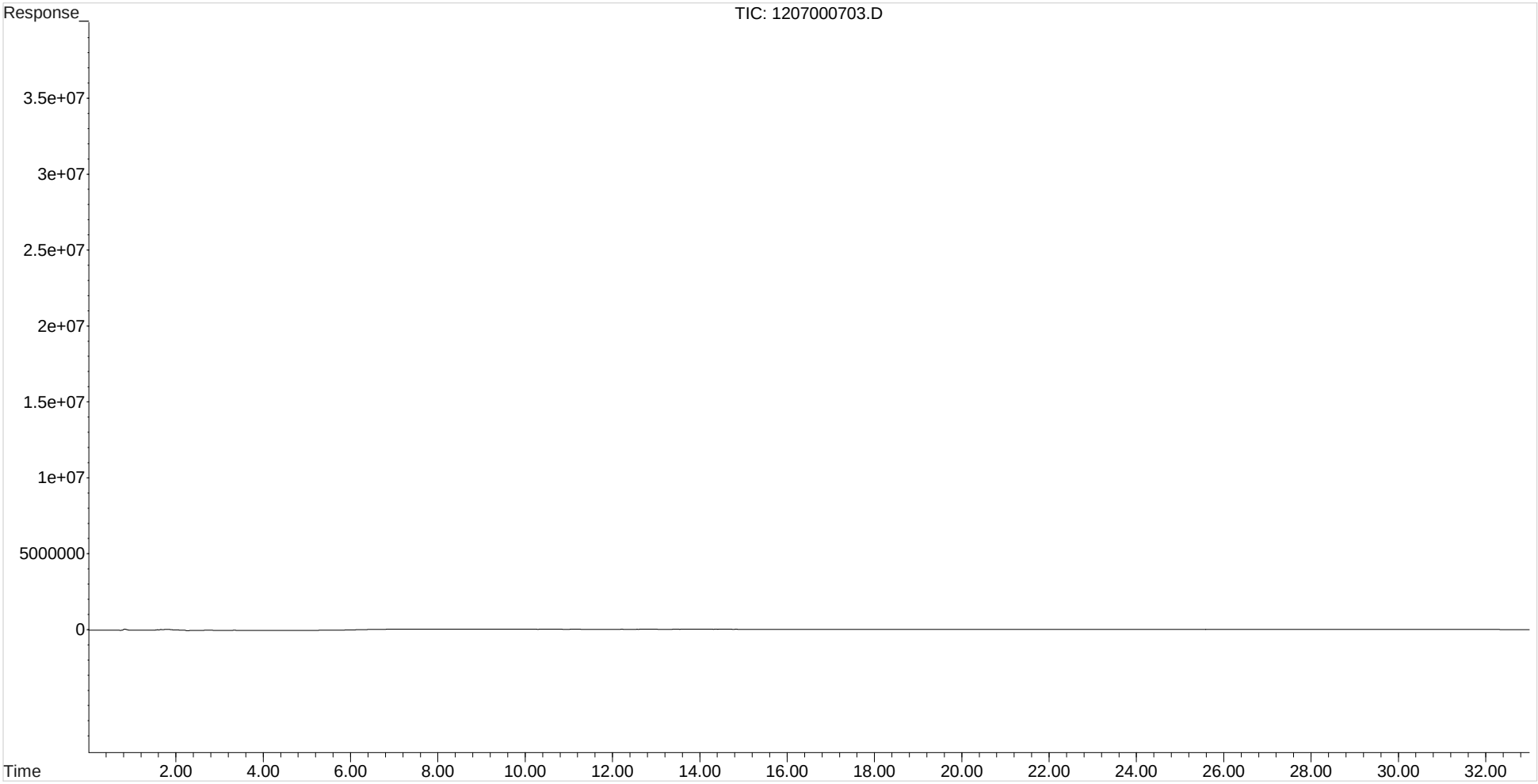
Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:23:13 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 13:46:47 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
18)	S	1-Chloro-3-Nitrobenzene	29.718	461332	NoCal	ug/L	m
		Target Compounds					
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	4.618	232698	NoCal	ug/L	m
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	8.378	420328	NoCal	ug/L	m
5)	T	1,3,5-TNB	10.518	908690	NoCal	ug/L	m
6)	T	1,3-DNB	13.865	1258488	NoCal	ug/L	
7)	T	3,5-Dinitroaniline	14.978	975768	NoCal	ug/L	m
8)	T	Tetryl	15.592	673809	NoCal	ug/L	m
9)	T	Nitrobenzene	16.198	787874	NoCal	ug/L	m
10)	T	2,4,6-TNT	17.445	797481	NoCal	ug/L	m
11)	T	4-Amino-2,6-DNT	19.212	537582	NoCal	ug/L	m
12)	T	2-Amino-4,6-DNT	20.038	846074	NoCal	ug/L	m
13)	T	2,6-DNT	21.765	470868	NoCal	ug/L	m
14)	T	2,4-DNT	22.218	1151614	NoCal	ug/L	m
15)	T	2-NT	25.332	349859	NoCal	ug/L	m
16)	T	4-NT	26.252	319957	NoCal	ug/L	m
17)	T	3-NT	27.378	411159	NoCal	ug/L	m

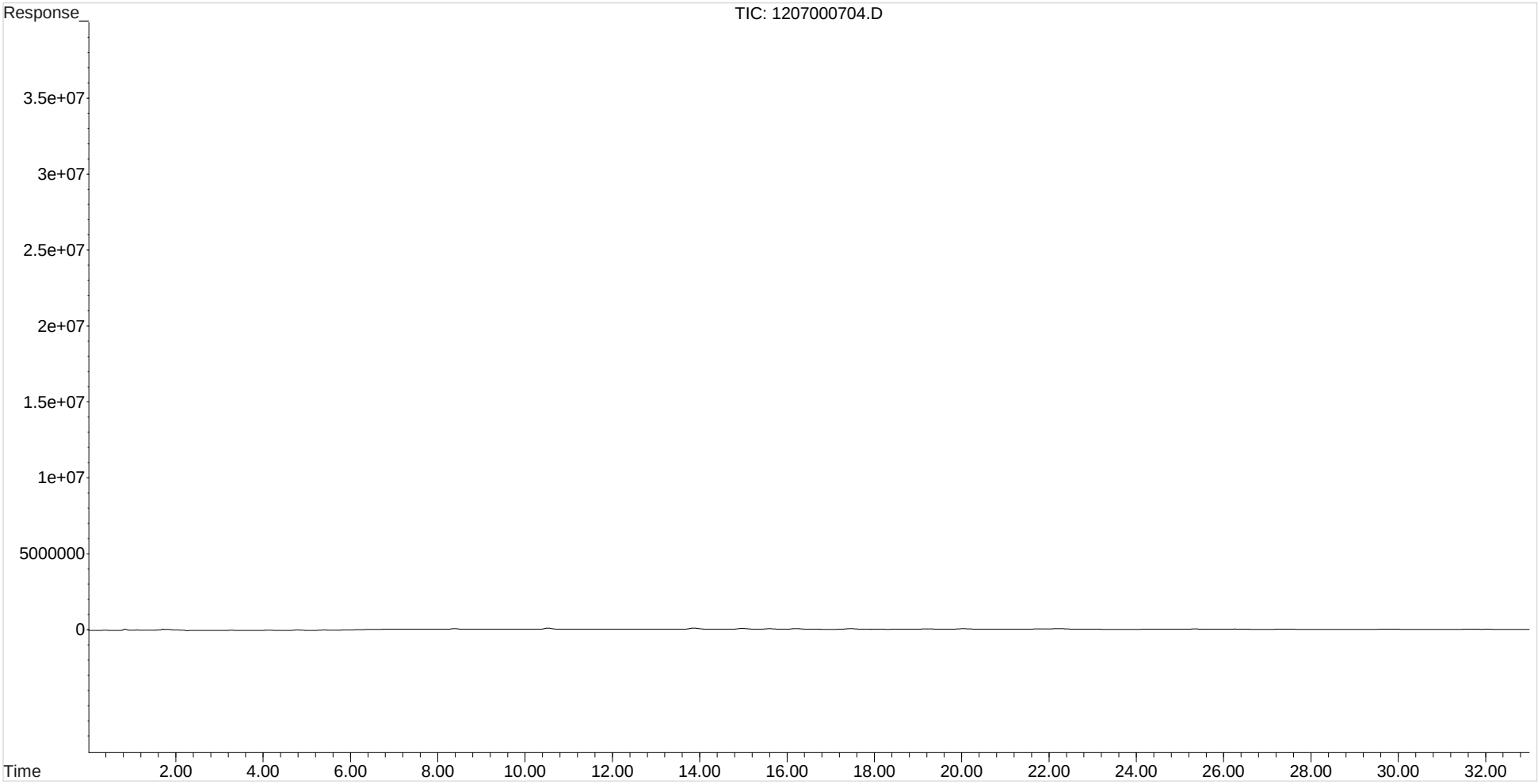
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 13:46:47 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

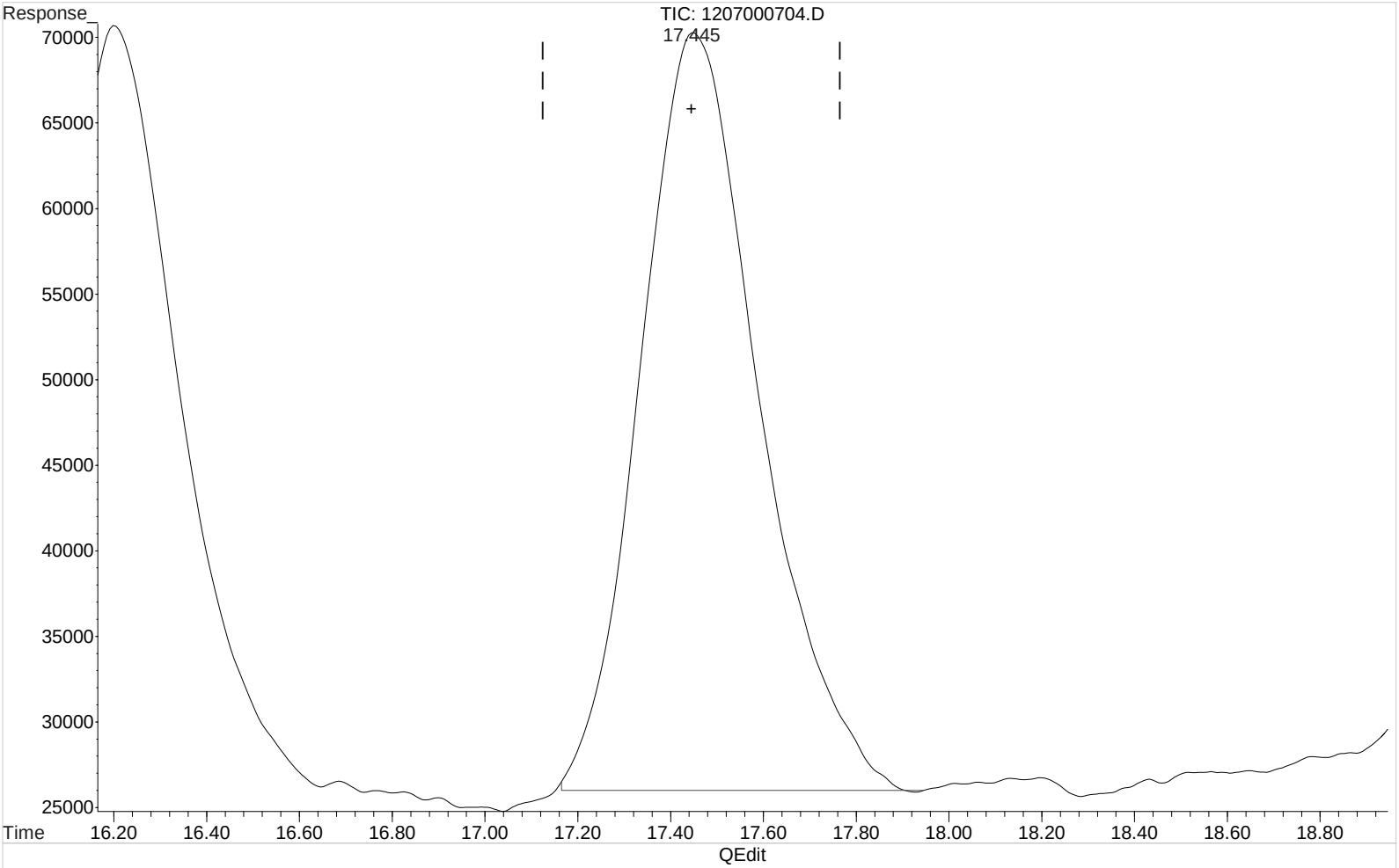


(b) (6)
1st [redacted] 2/08/16
2n [redacted] 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(10) 2,4,6-TNT (T)

17.445min 0.000 ug/L

response 786868

Manual Integration:

Before

12/08/16

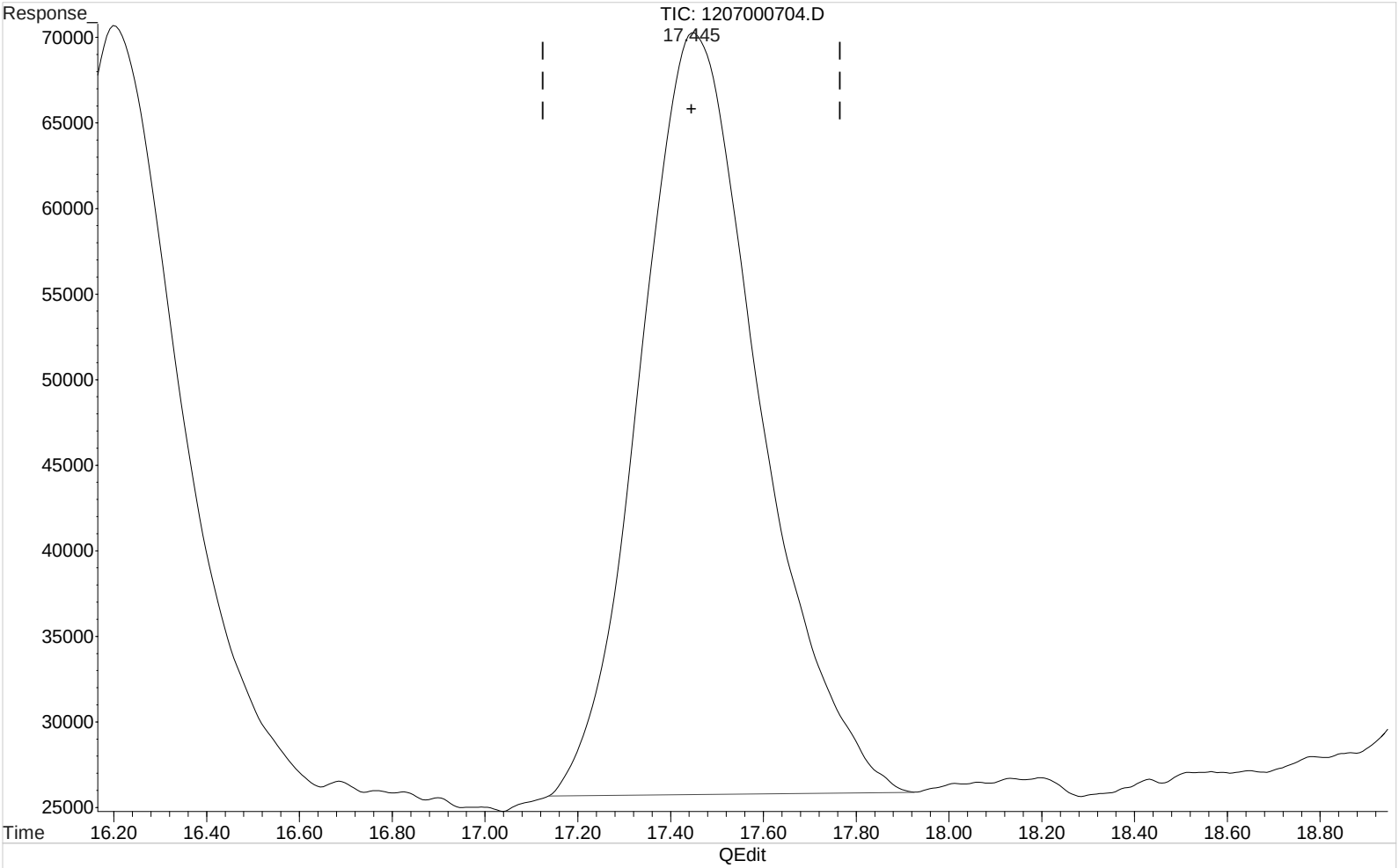
(+) = Expected Retention Time

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(10) 2,4,6-TNT (T)

17.445min 0.000 ug/L m

response 797481

Manual Integration:

After

BLC

12/08/16

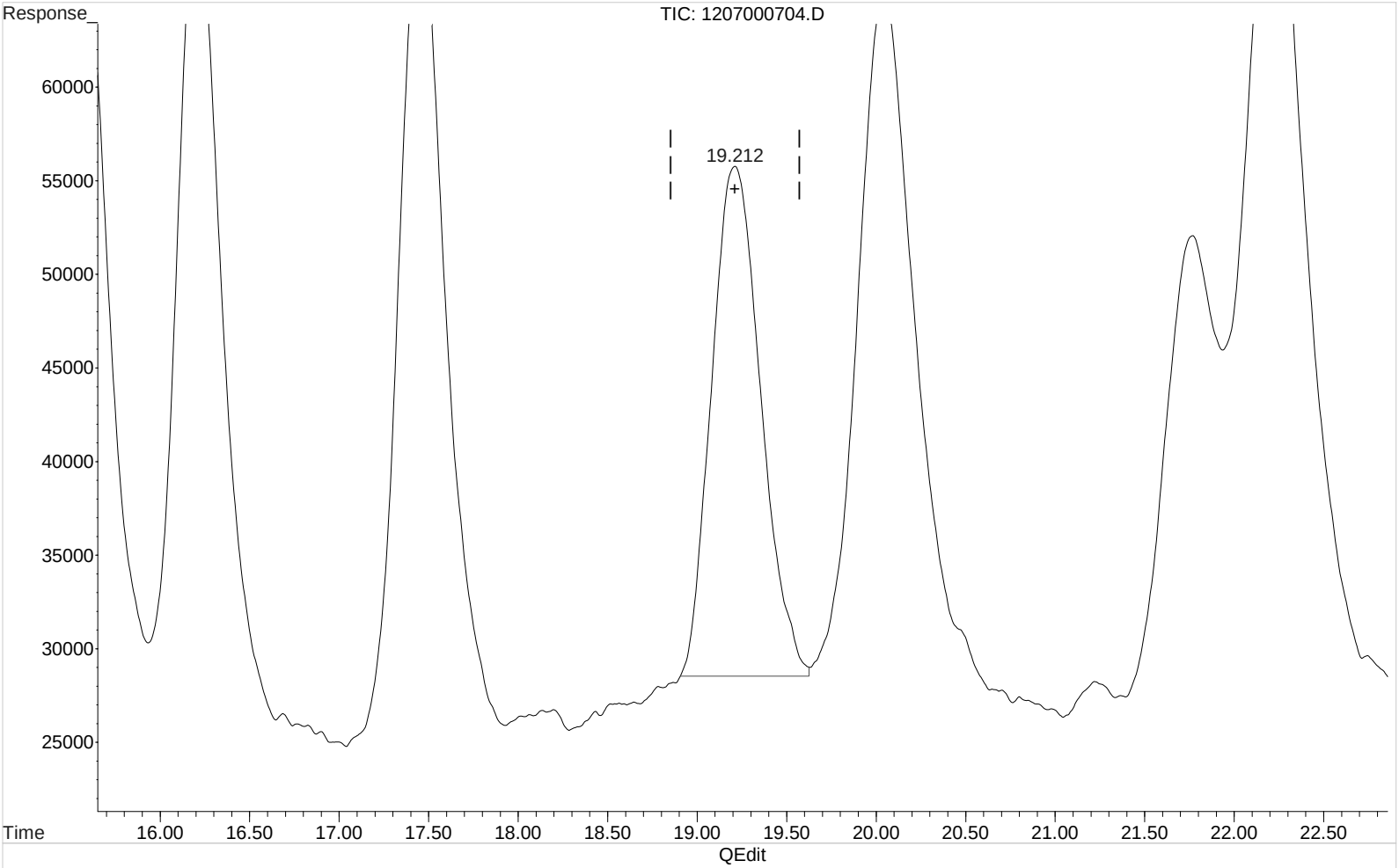
(+) = Expected Retention Time

(b) (6)
1s 12/08/16
2n 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(11) 4-Amino-2,6-DNT (T)

19.212min 0.000 ug/L

response 521042

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

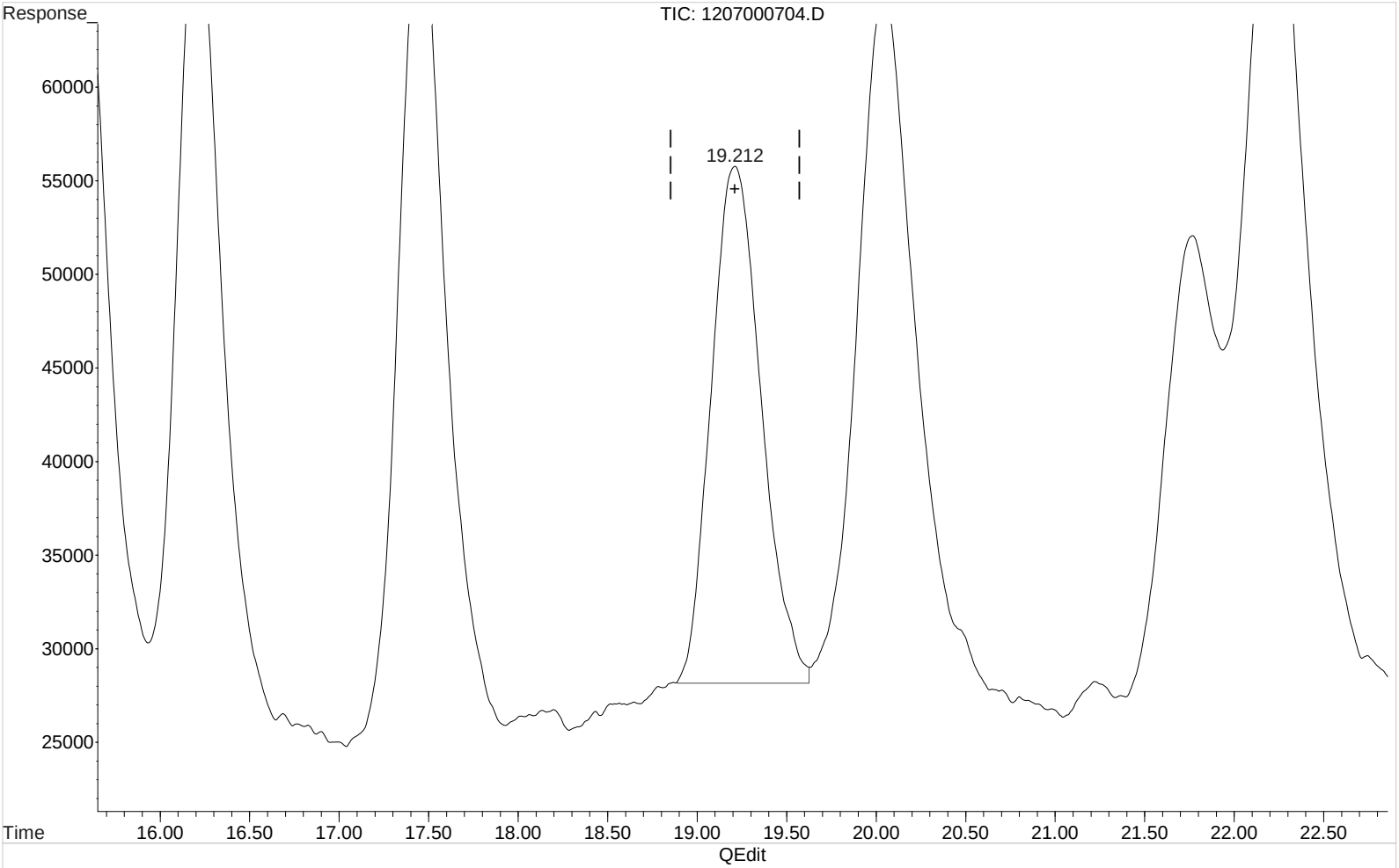
Quantitation Report (Qedit)

(b) (6)
1st /08/16
2nd /09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(11) 4-Amino-2,6-DNT (T)

19.212min 0.000 ug/L m

response 537582

Manual Integration:

After

BLC

12/08/16

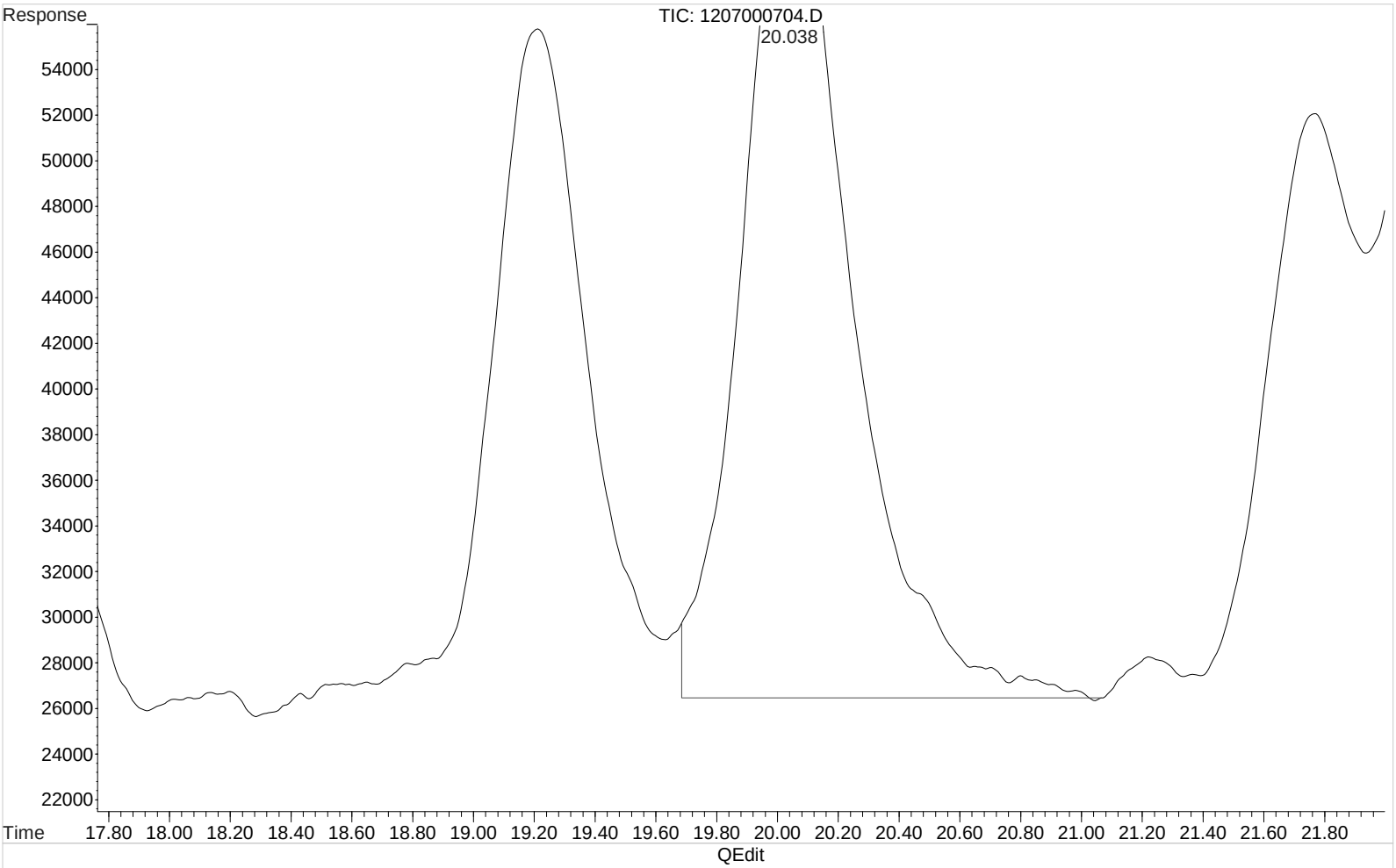
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(12) 2-Amino-4,6-DNT (T)

20.038min 0.000 ug/L

response 932740

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b)(6)

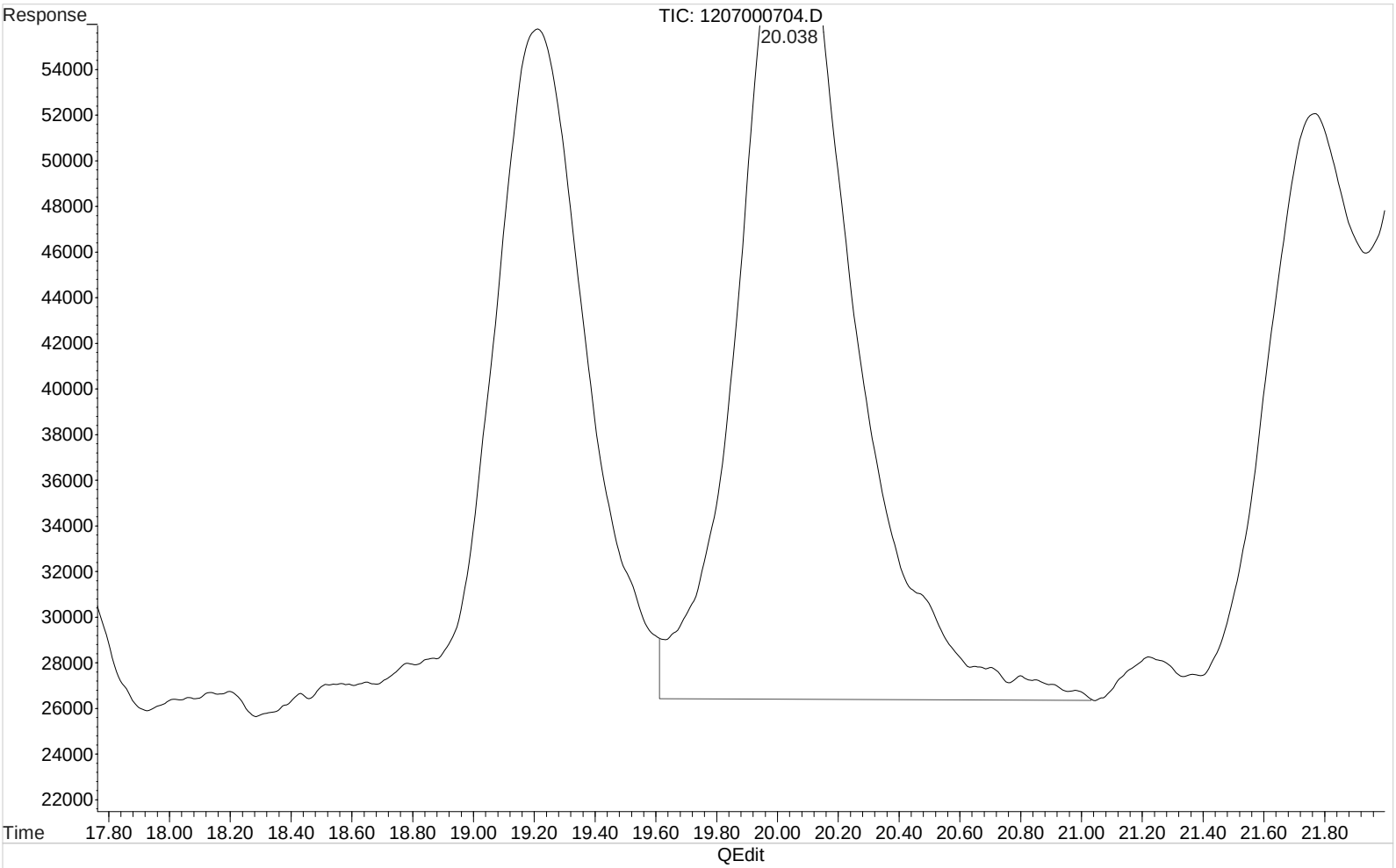
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(12) 2-Amino-4,6-DNT (T)

20.038min 0.000 ug/L m

response 951343

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

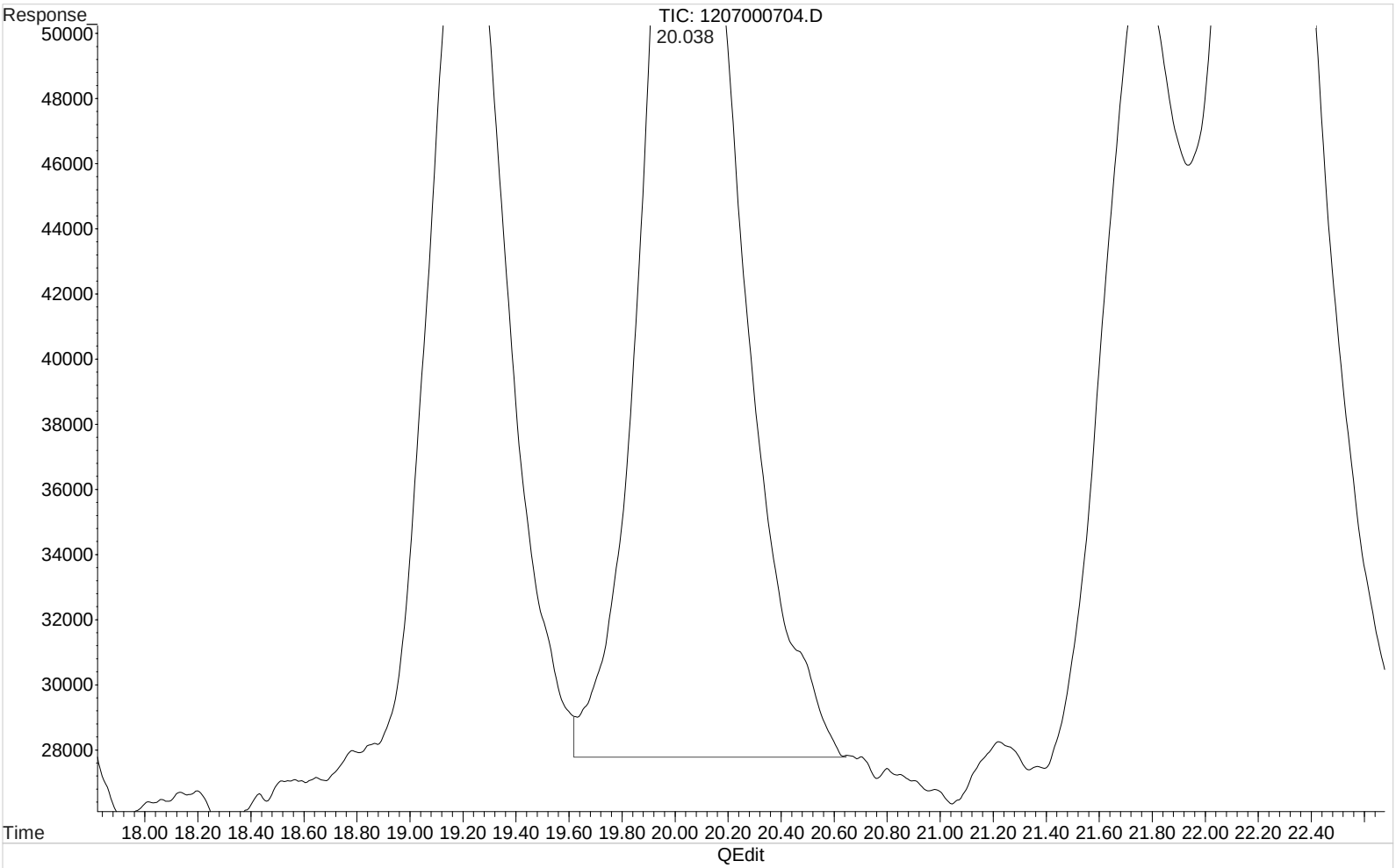
Quantitation Report (Qedit)

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:32:07 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(12) 2-Amino-4,6-DNT (T)

20.038min 0.000 ug/L m

response 846074

Manual Integration:

After

Baseline/Shoulder

12/08/16

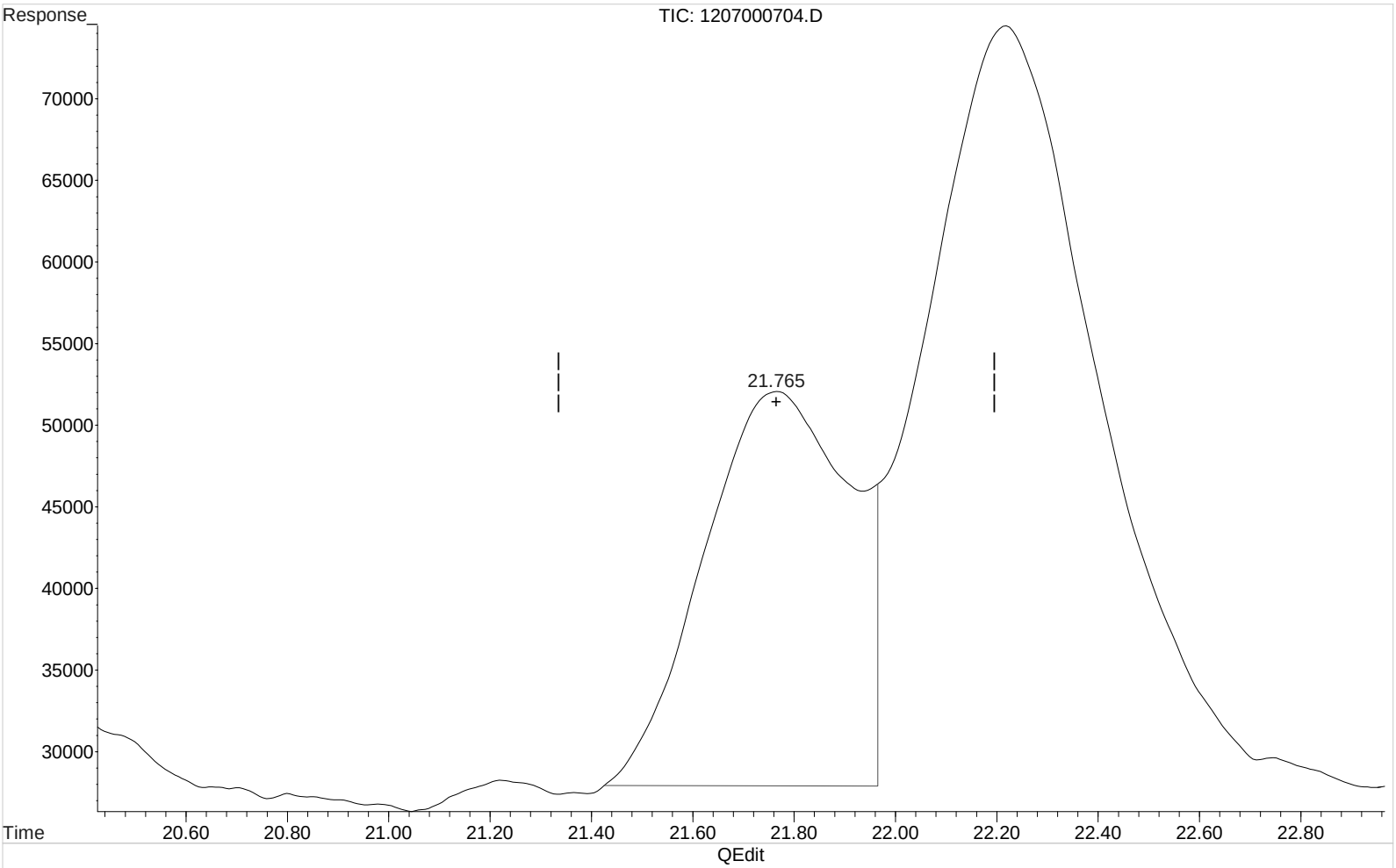
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.765min 0.000 ug/L

response 490736

Manual Integration:

Before

12/08/16

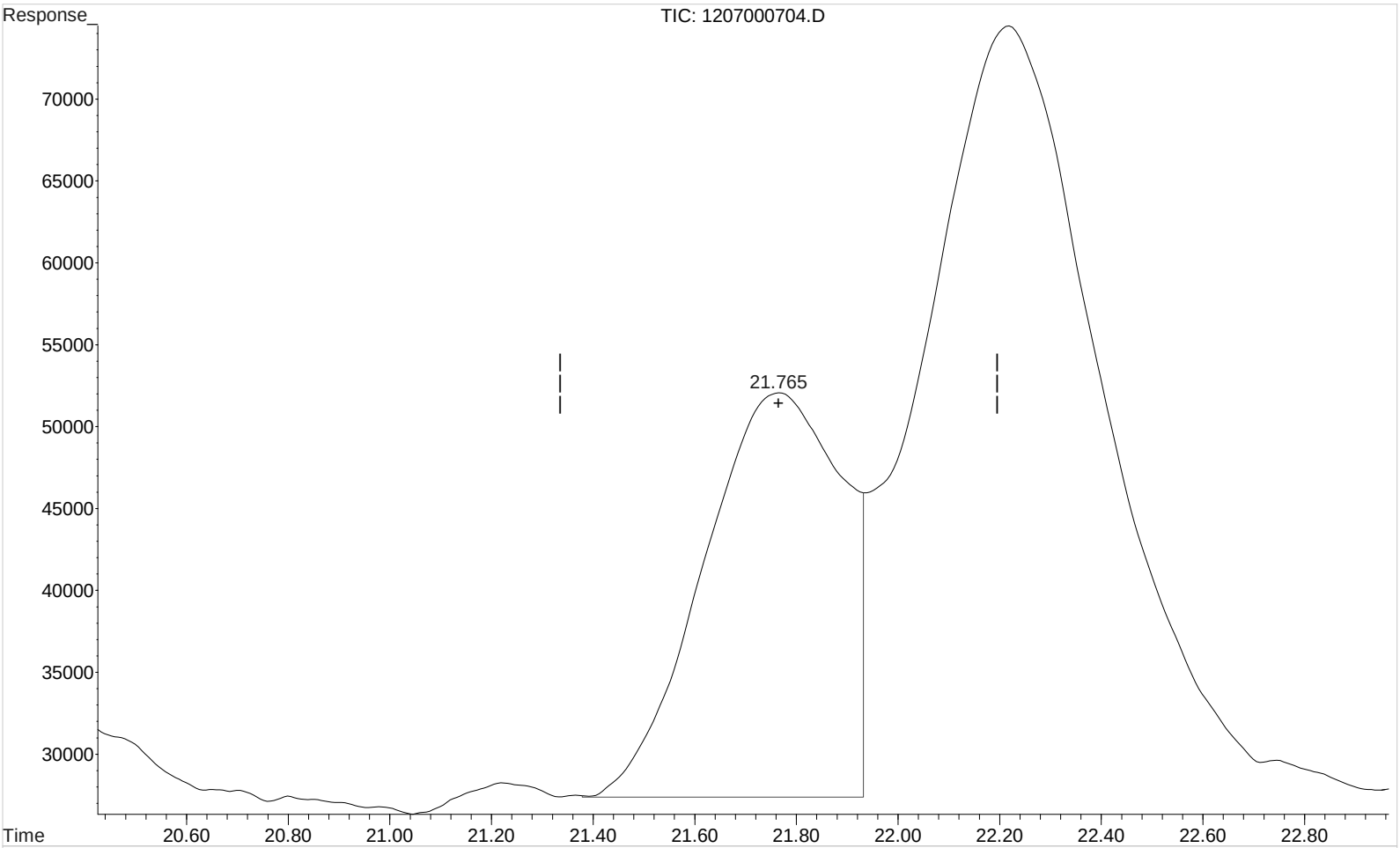
(+) = Expected Retention Time

(b) (6)
1st /08/16
2nd /09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.765min 0.000 ug/L m

response 470868

Manual Integration:

After

BLC

12/08/16

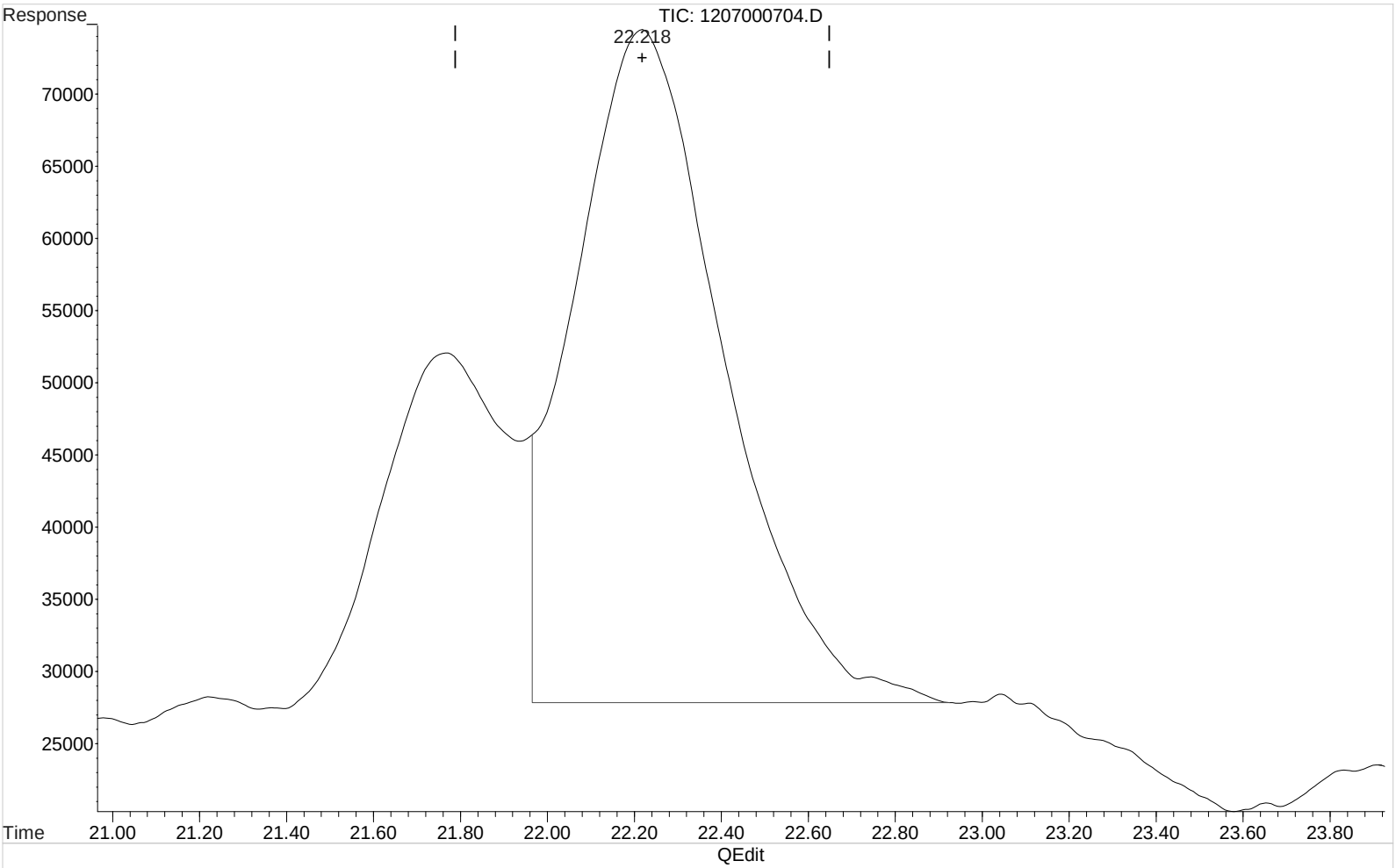
(+) = Expected Retention Time

(b) (6)
1s /08/16
2 /09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.218min 0.000 ug/L

response 1110180

Manual Integration:

Before

12/08/16

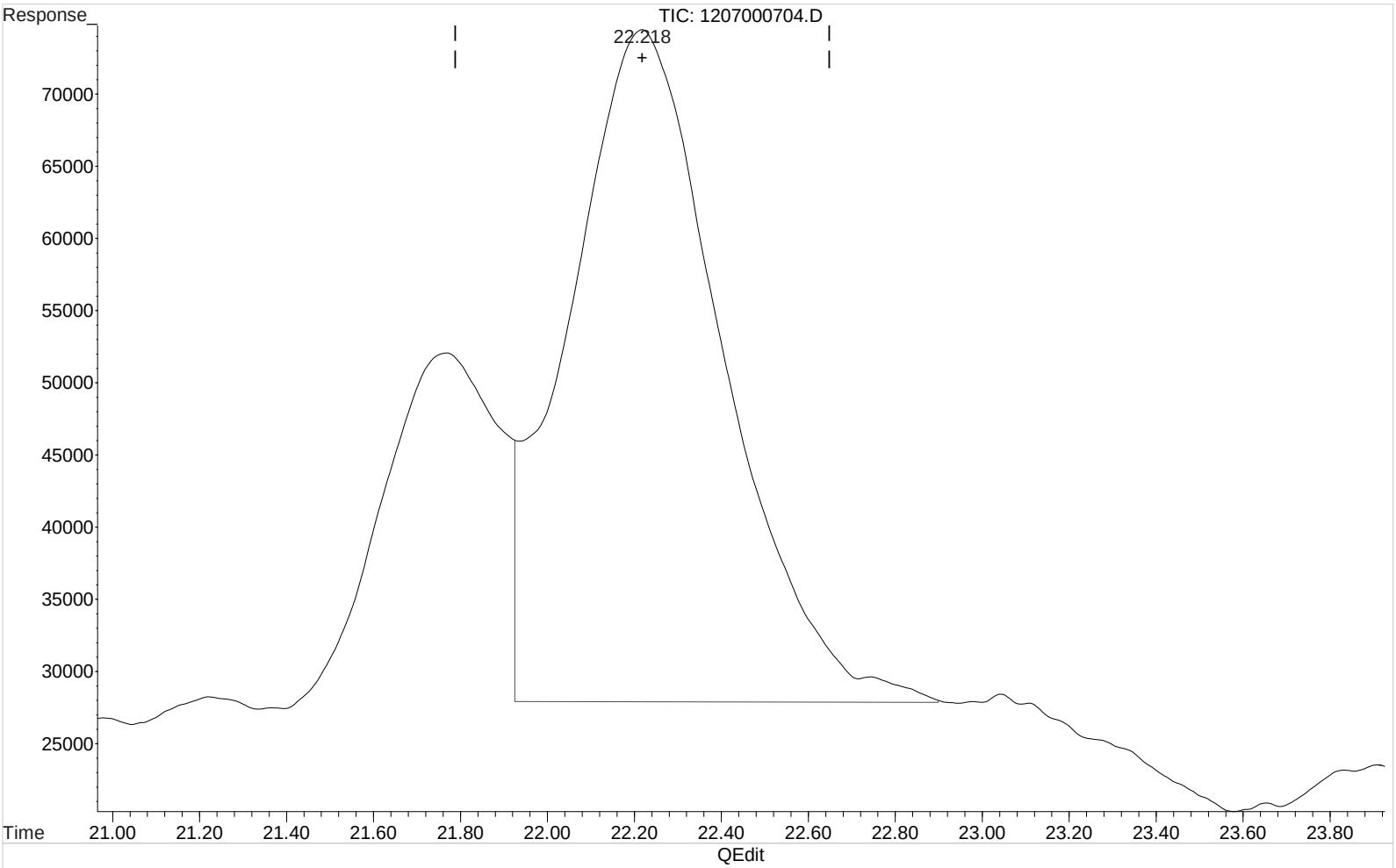
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(14) 2,4-DNT (T)

22.218min 0.000 ug/L m

response 1151614

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

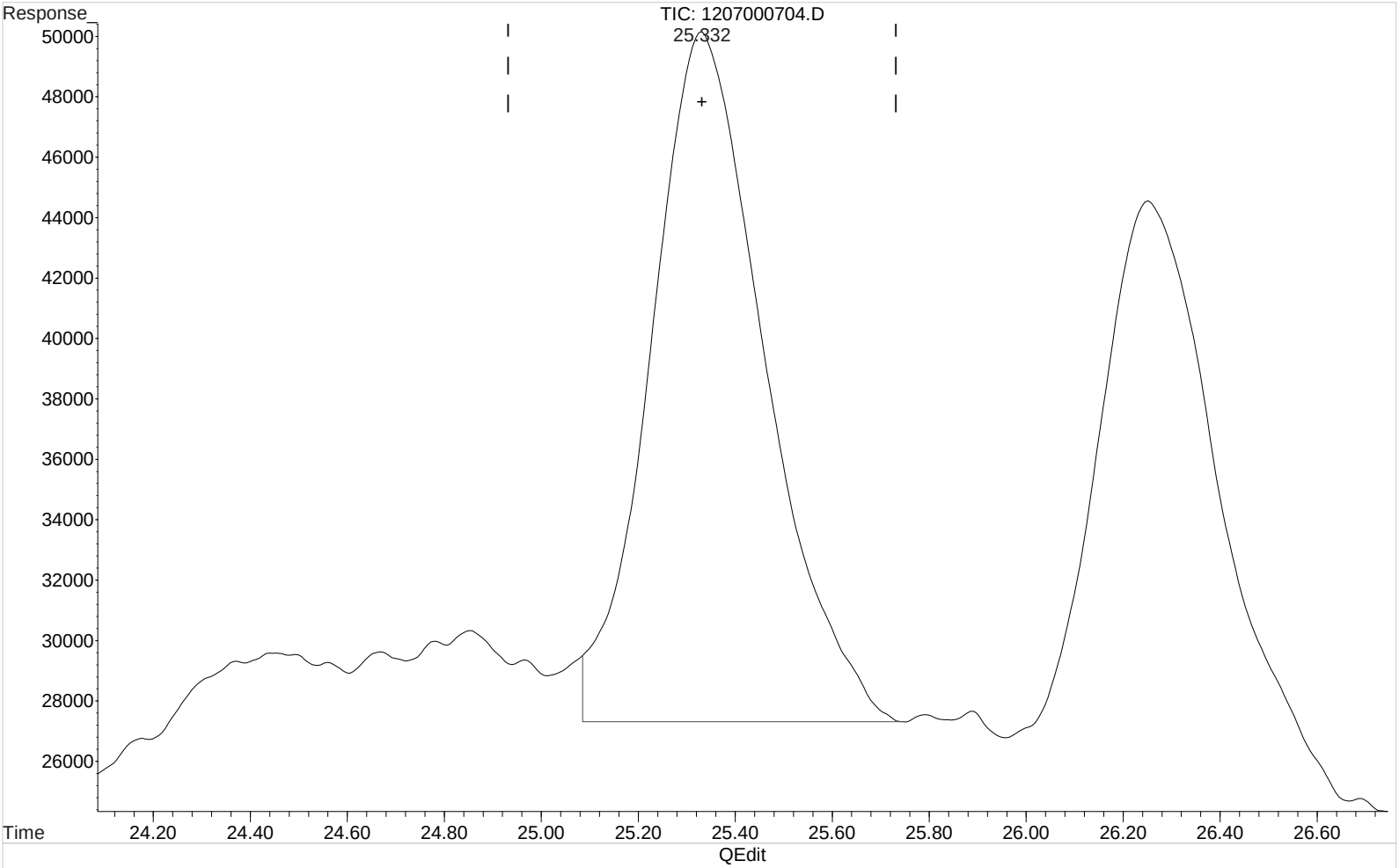
Quantitation Report (Qedit)

1st (b)(6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.332min 0.000 ug/L

response 373720

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

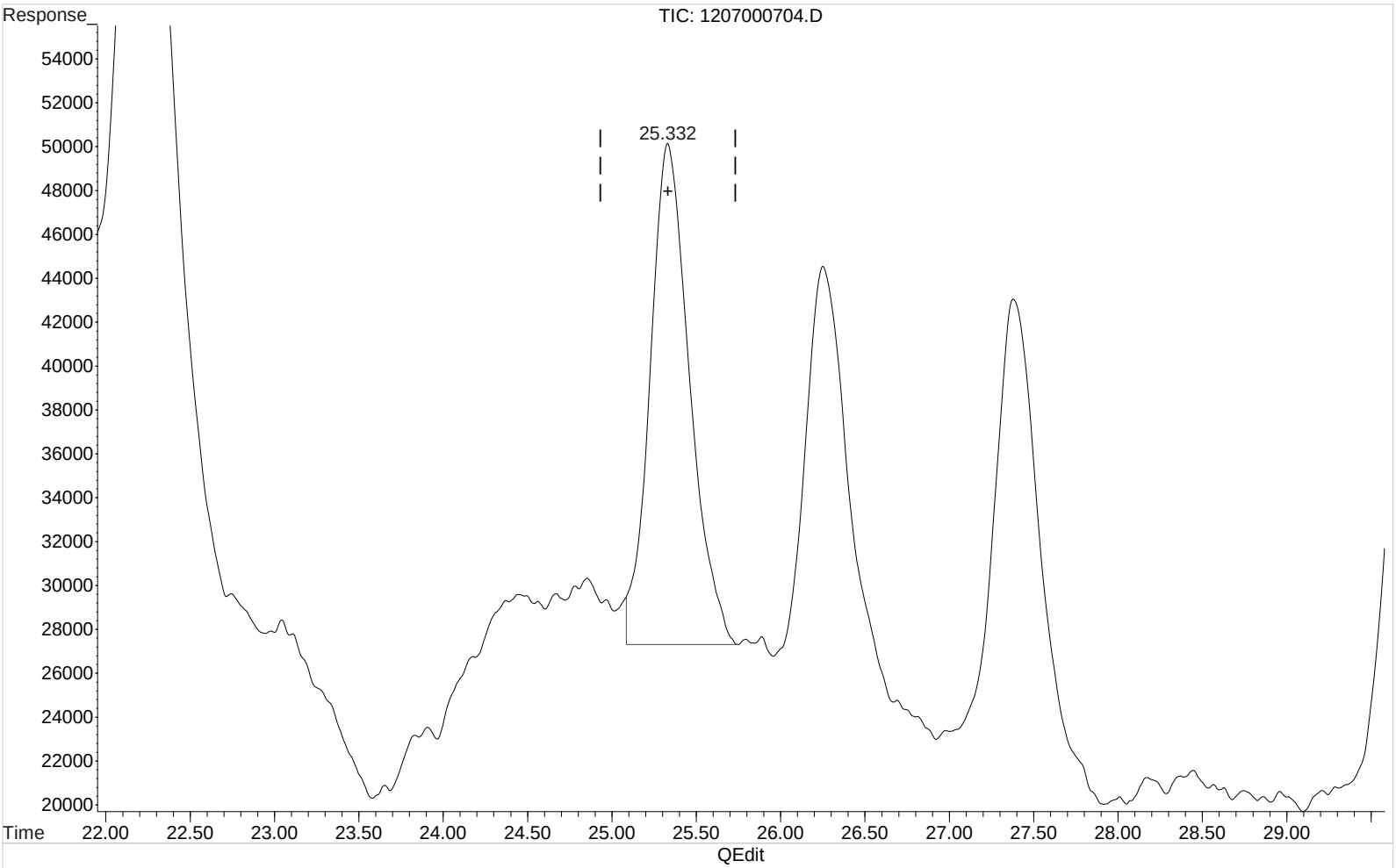
Quantitation Report (Qedit)

(b) (6)
1st [redacted] 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(15) 2-NT (T)

25.332min 0.000 ug/L

response 373720

Manual Integration:

Before

12/08/16

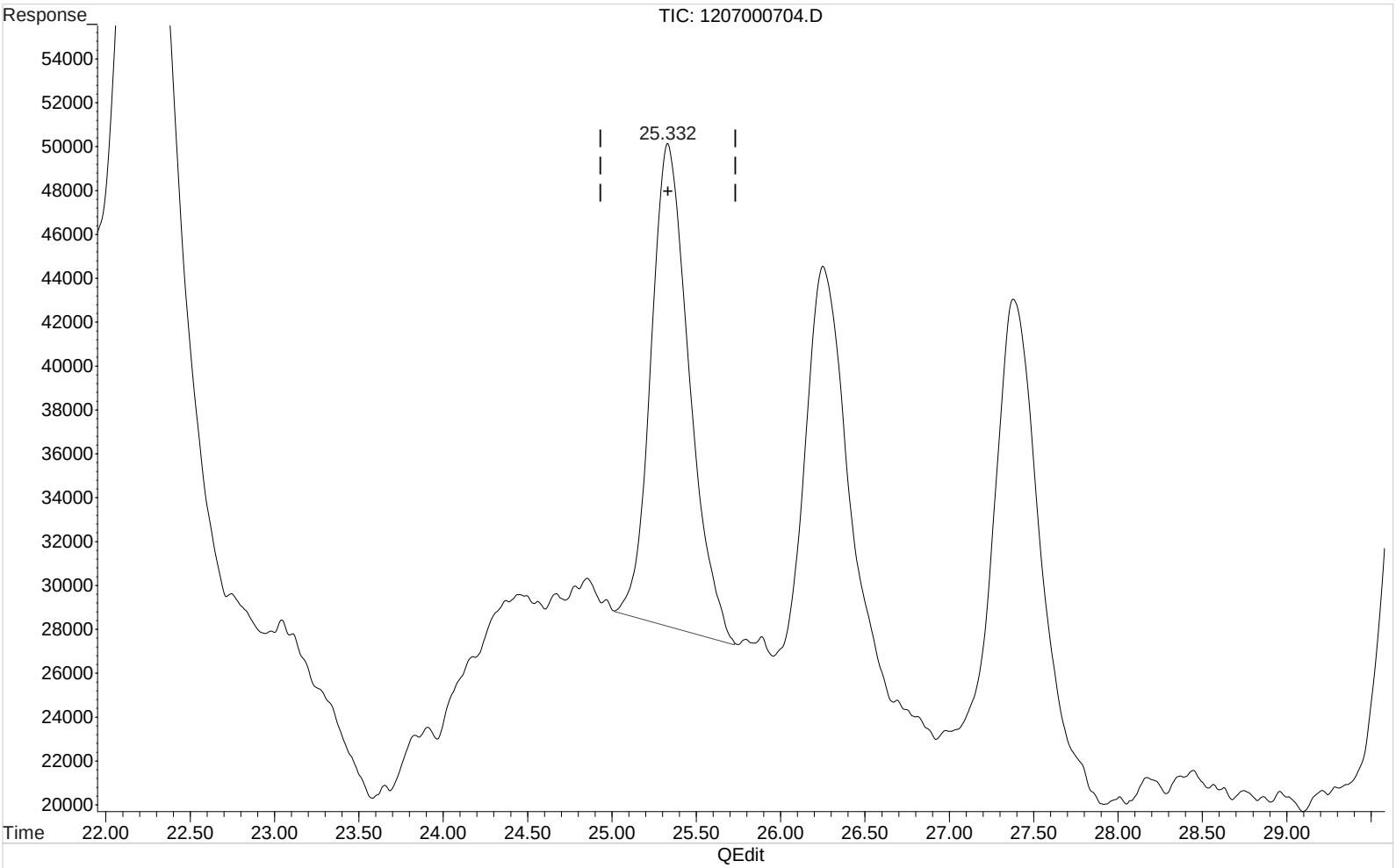
(+) = Expected Retention Time

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.332min 0.000 ug/L m

response 349859

Manual Integration:

After

BLC

12/08/16

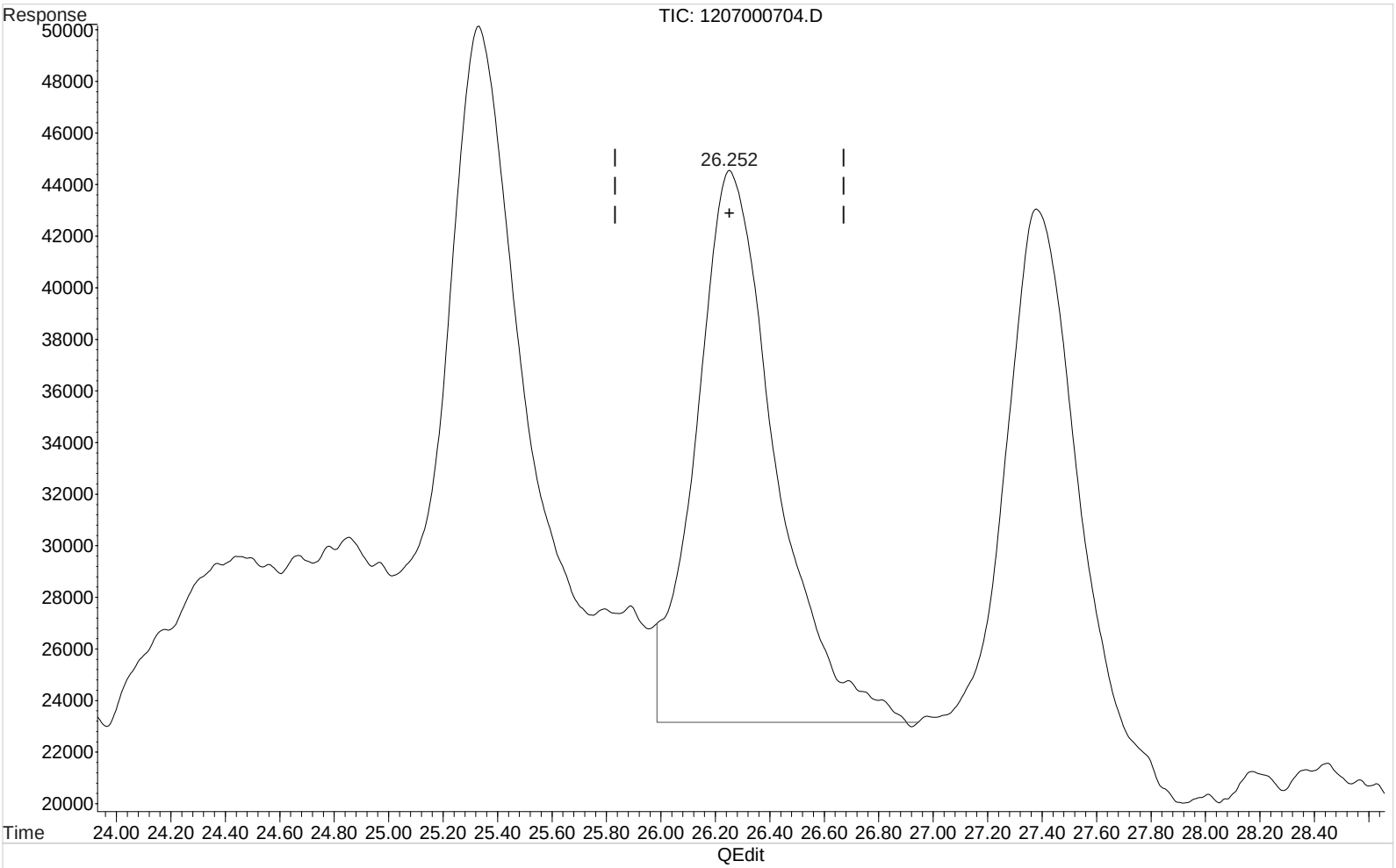
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.252min 0.000 ug/L

response 435478

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

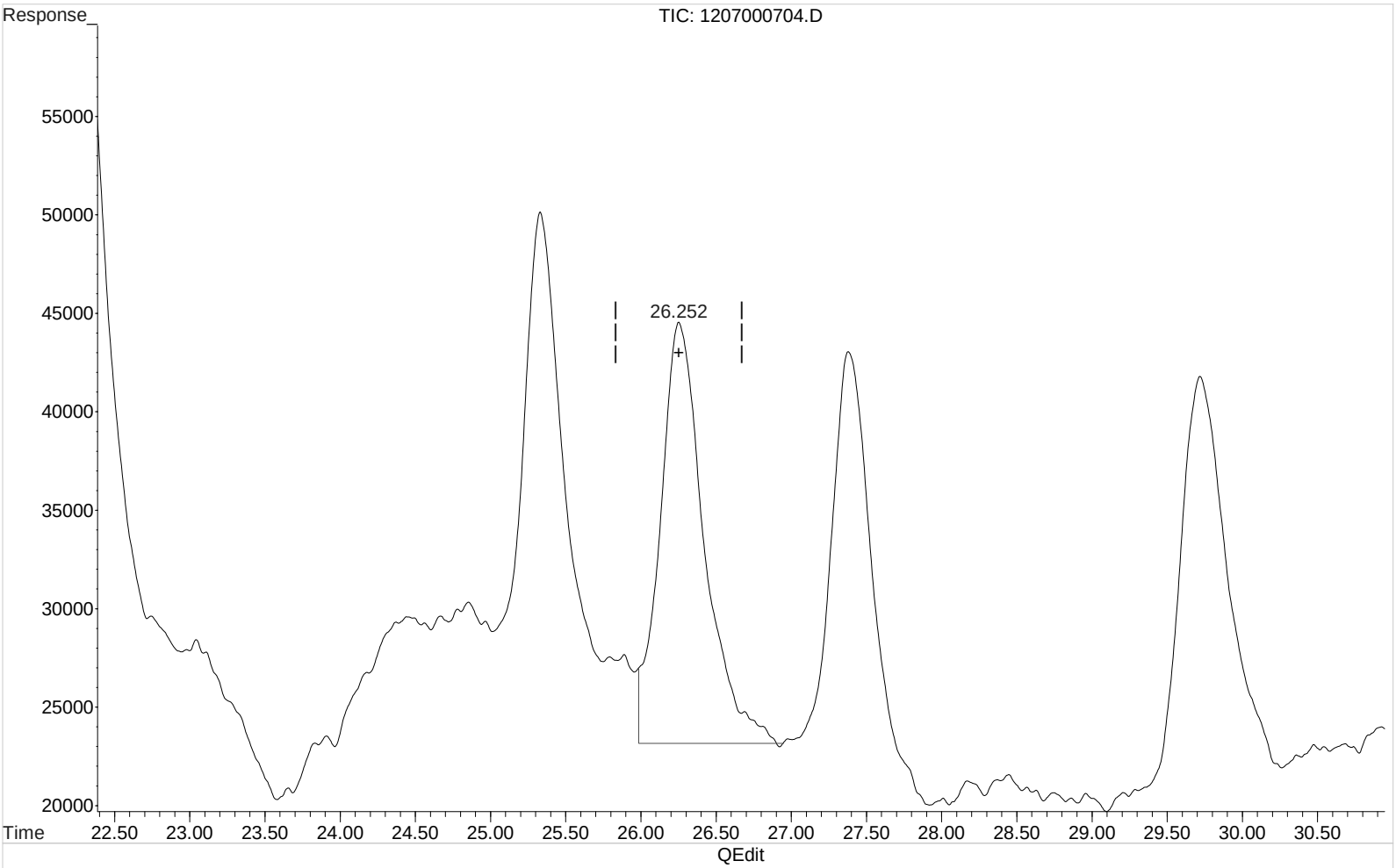
Quantitation Report (Qedit)

(b) (6)
1st 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.252min 0.000 ug/L

response 435478

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

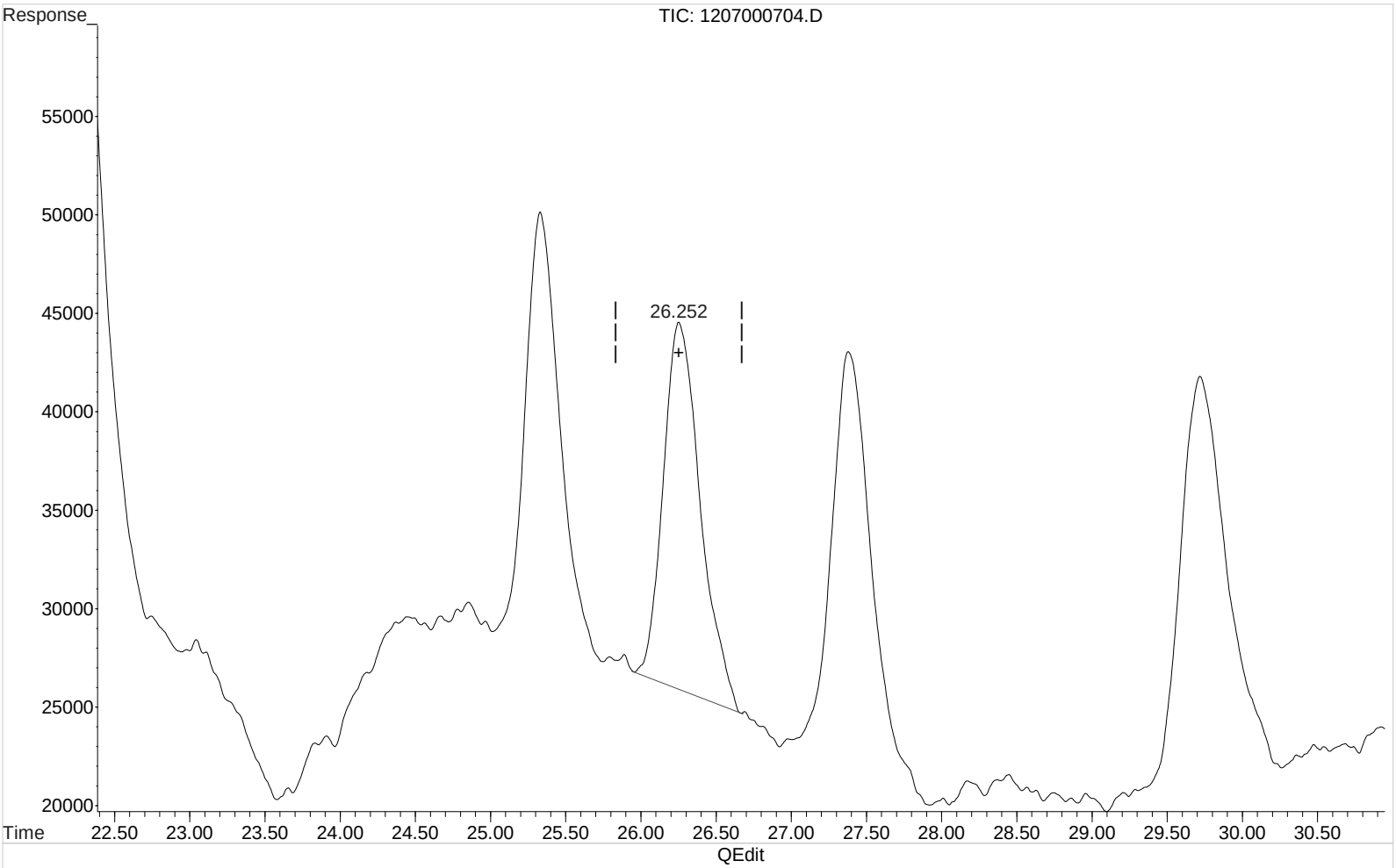
Quantitation Report (Qedit)

(b) (6)
1st 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(16) 4-NT (T)

26.252min 0.000 ug/L m

response 319957

Manual Integration:

After

BLC

12/08/16

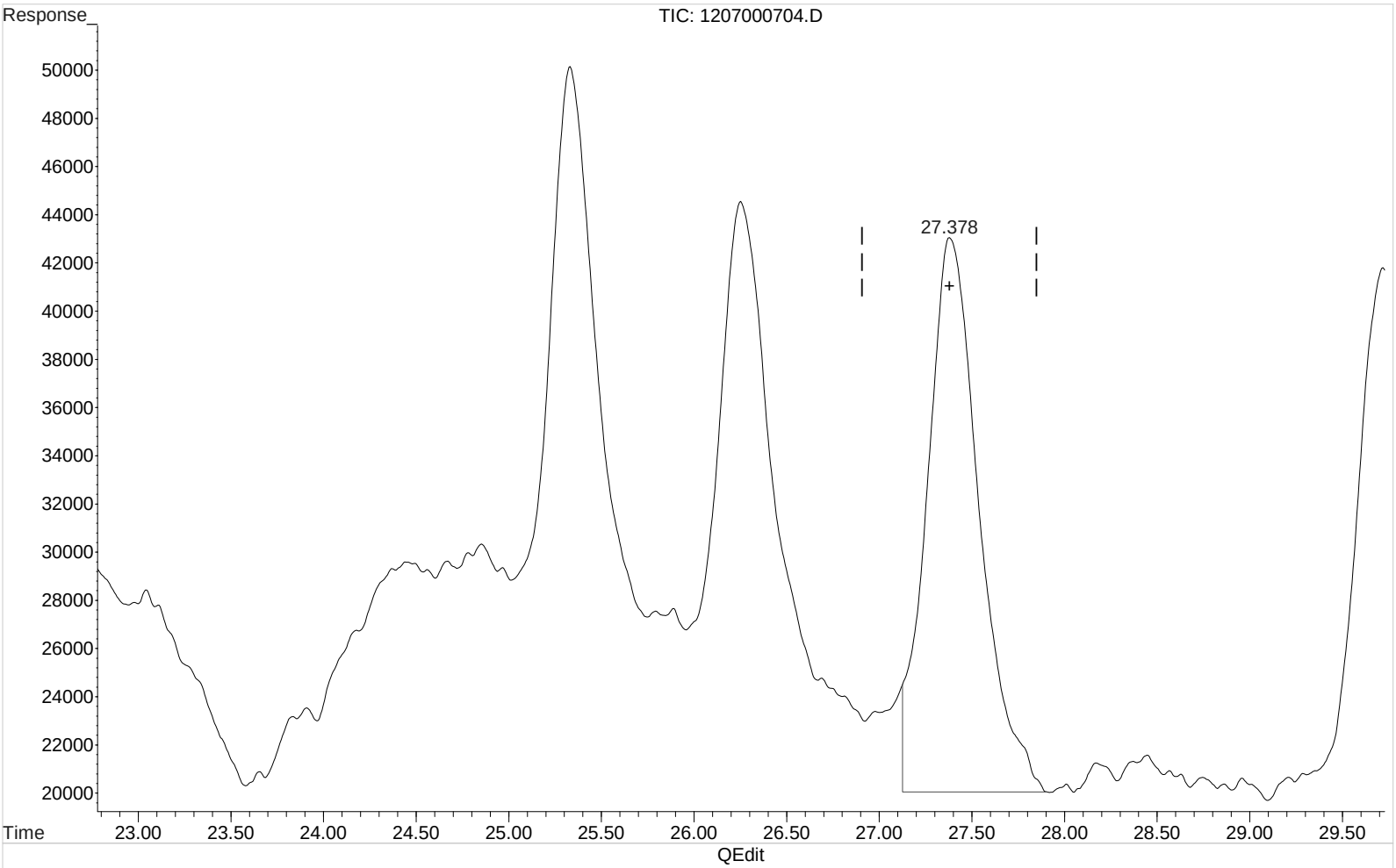
(+) = Expected Retention Time

(b) (6)
1s /08/16
2n /09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.378min 0.000 ug/L

response 452684

Manual Integration:

Before

12/08/16

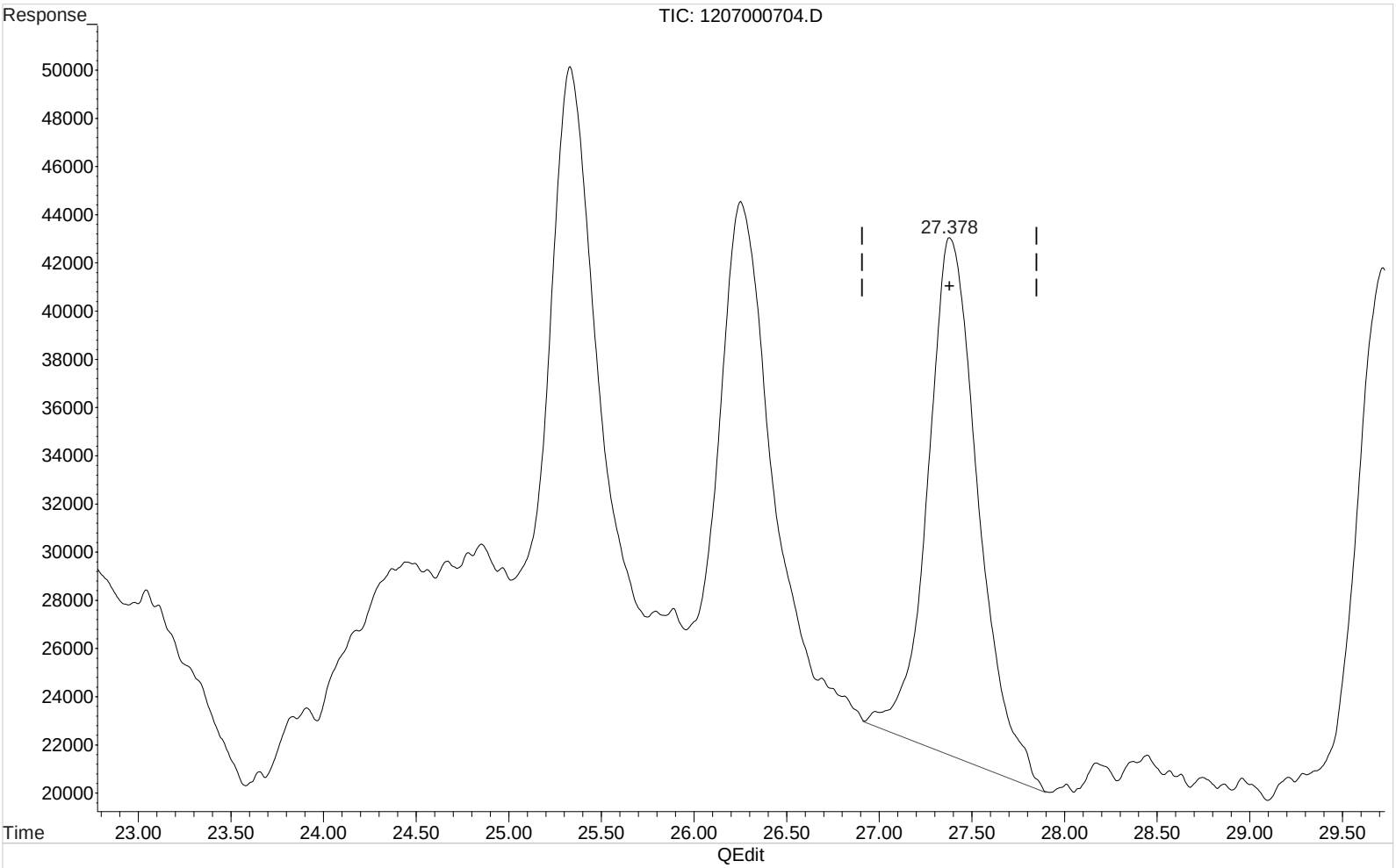
(+) = Expected Retention Time

1st (b) (6) 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.378min 0.000 ug/L m

response 411159

Manual Integration:

After

BLC

12/08/16

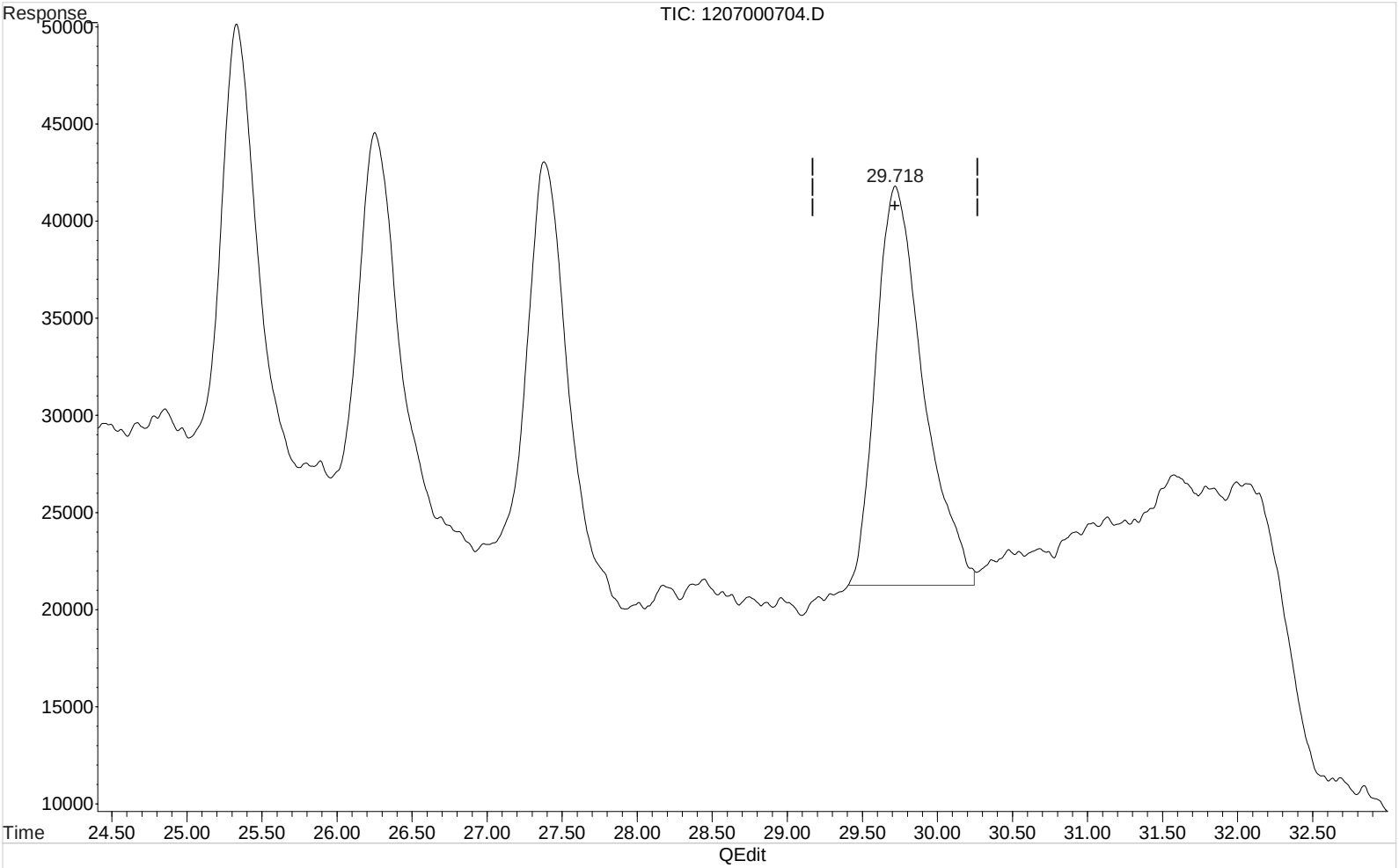
(+) = Expected Retention Time

(b) (6)
1st [redacted] 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(18) 1-Chloro-3-Nitrobenzene (S)

29.718min 0.000 ug/L

response 448530

Manual Integration:

Before

12/08/16

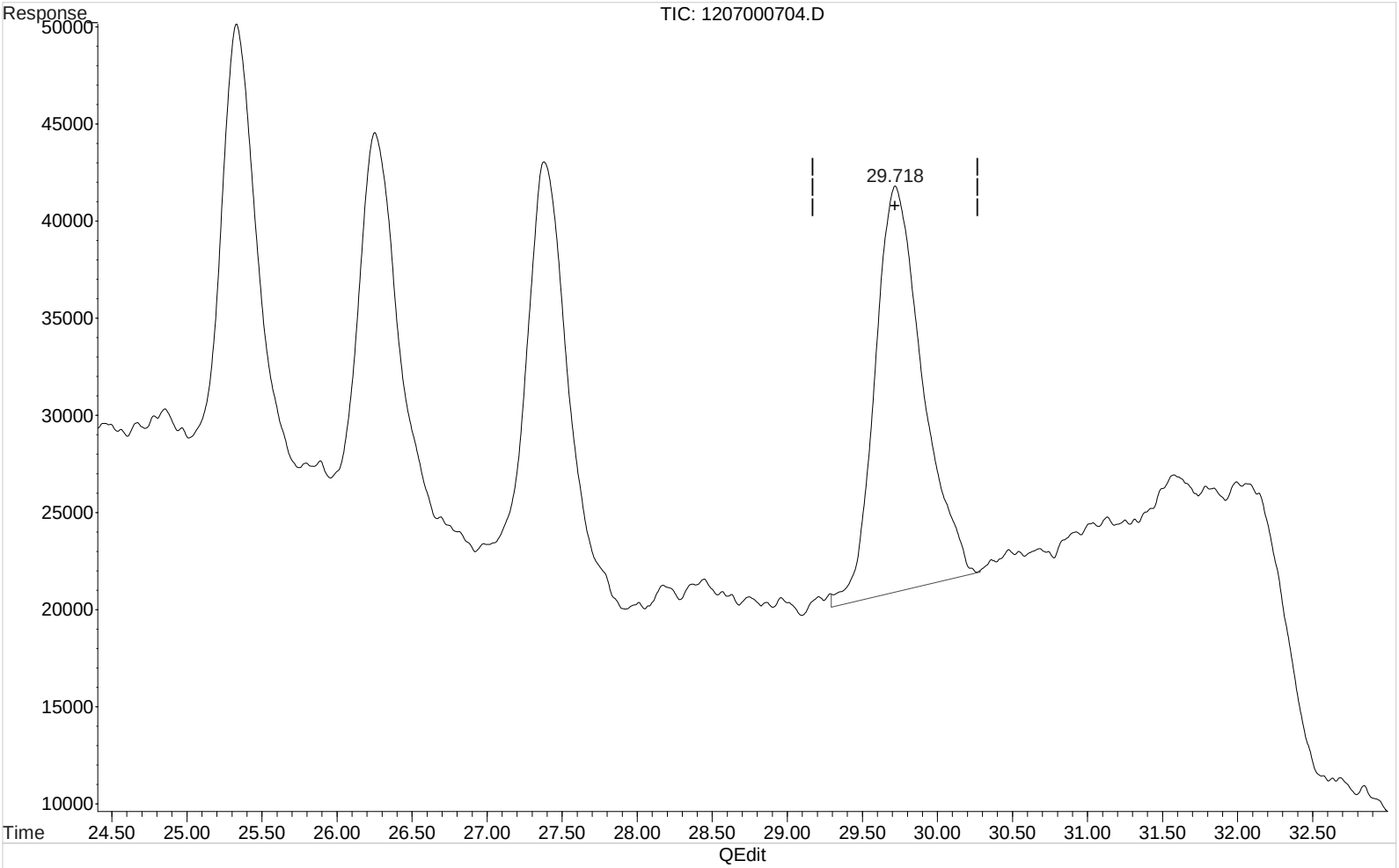
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(18) 1-Chloro-3-Nitrobenzene (S)

29.718min 0.000 ug/L m

response 461332

Manual Integration:

After

BLC

12/08/16

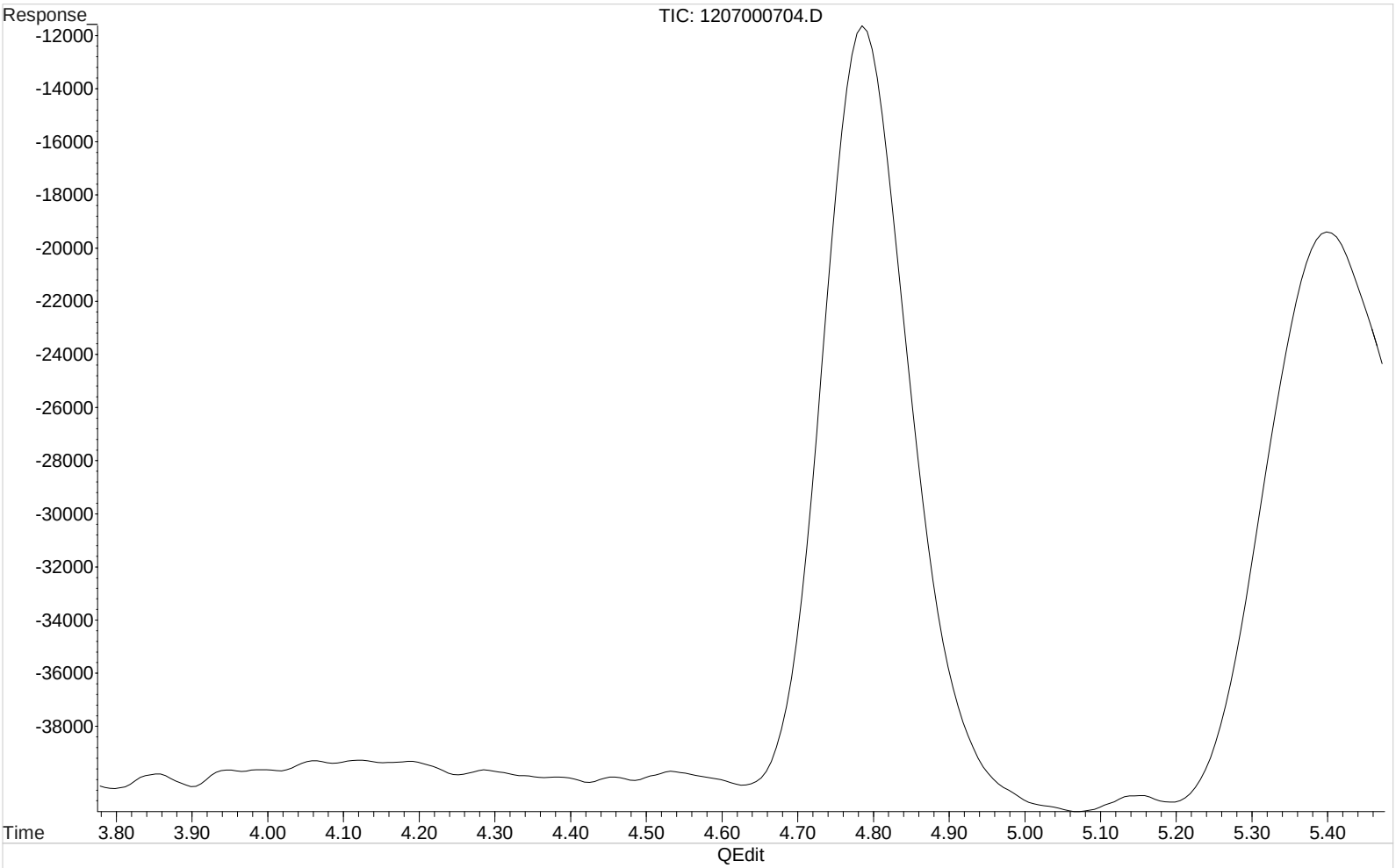
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(2) HMX (T)

4.625min 0.000 ug/L

response 0

Manual Integration:

Before

12/08/16

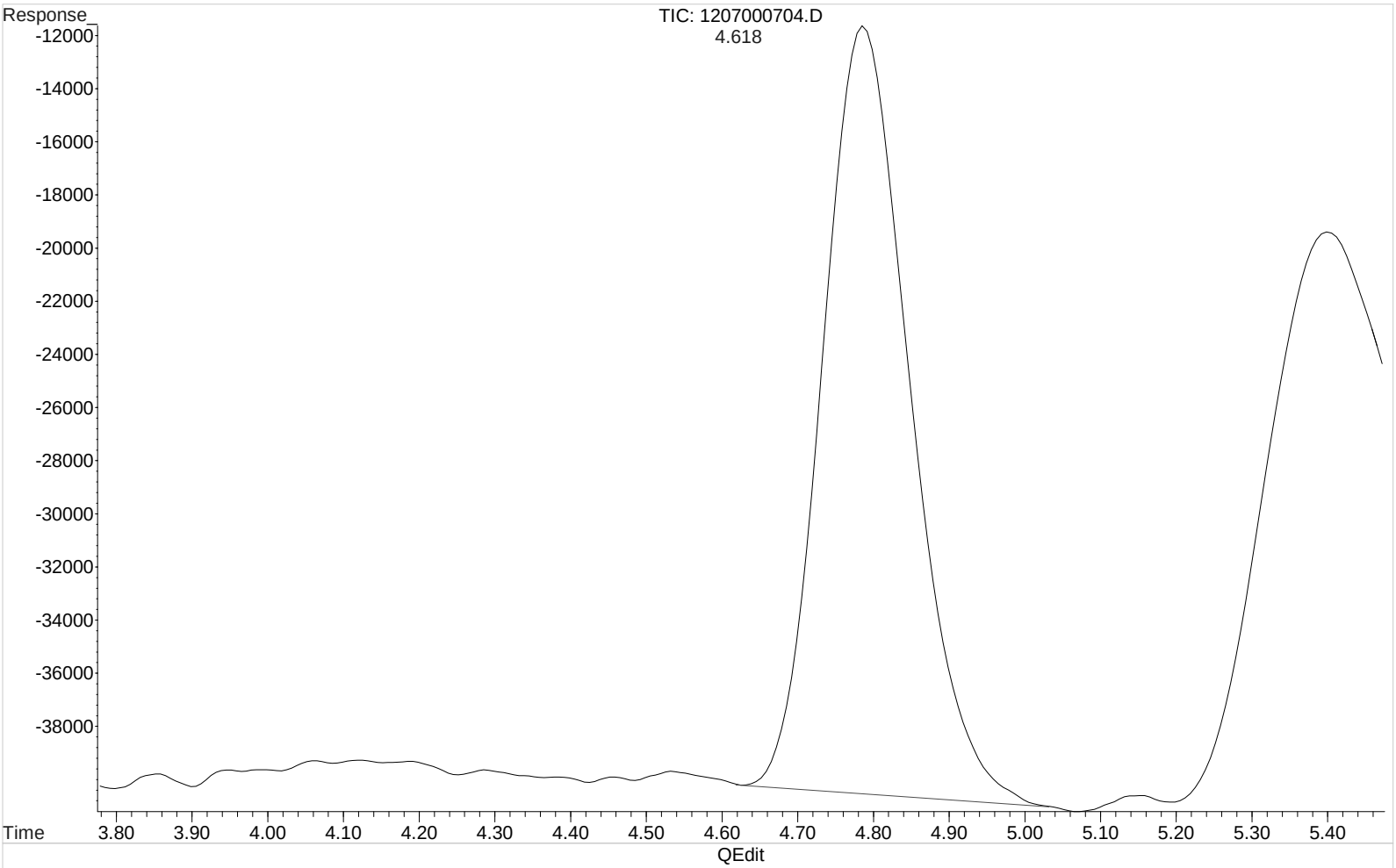
(+) = Expected Retention Time

1st (b) (6) 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(2) HMX (T)

4.618min 0.000 ug/L m

response 232698

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

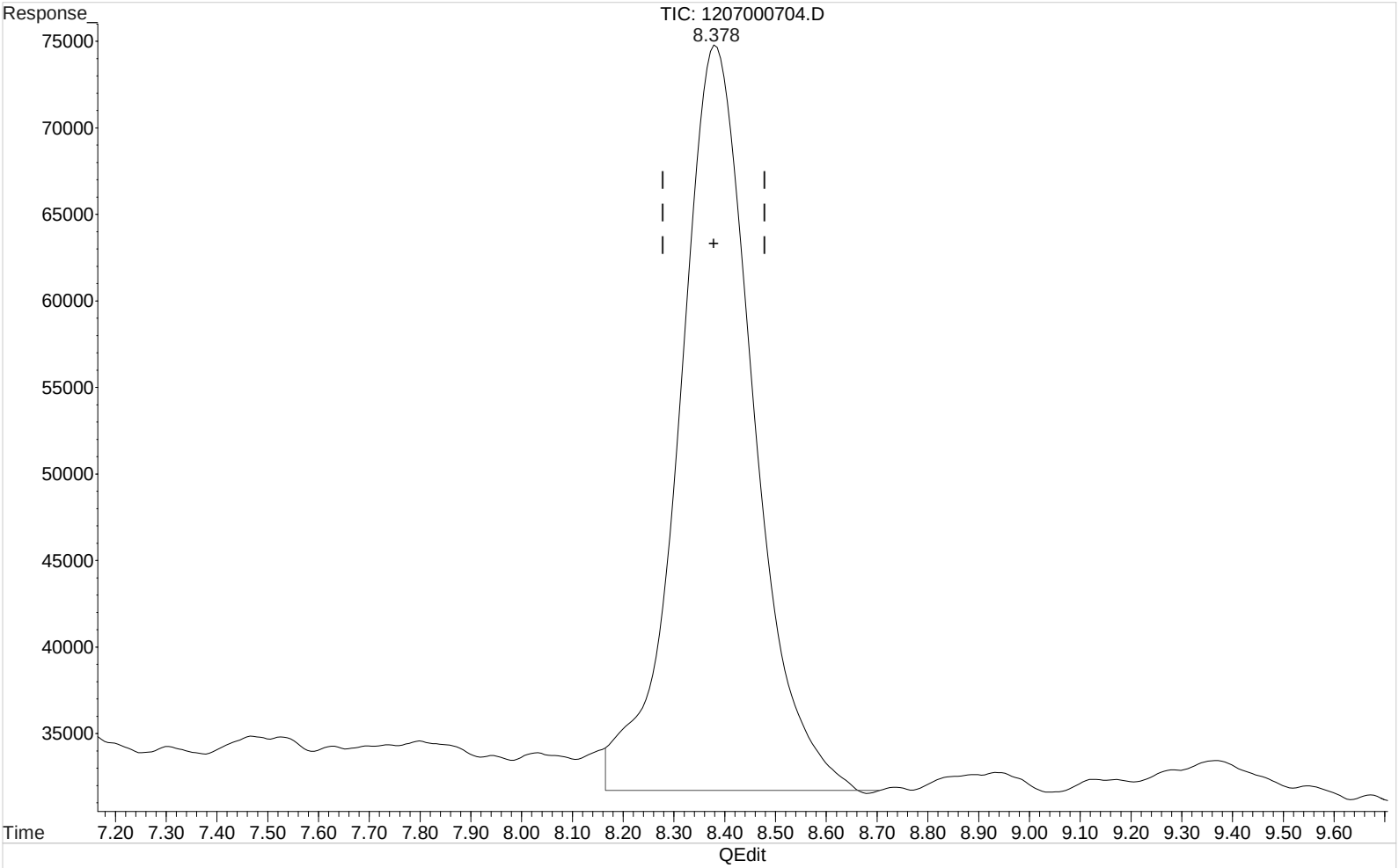
Quantitation Report (Qedit)

1st (b) (6) /08/16
2nd /09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(4) RDX (T)

8.378min 0.000 ug/L

response 440014

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

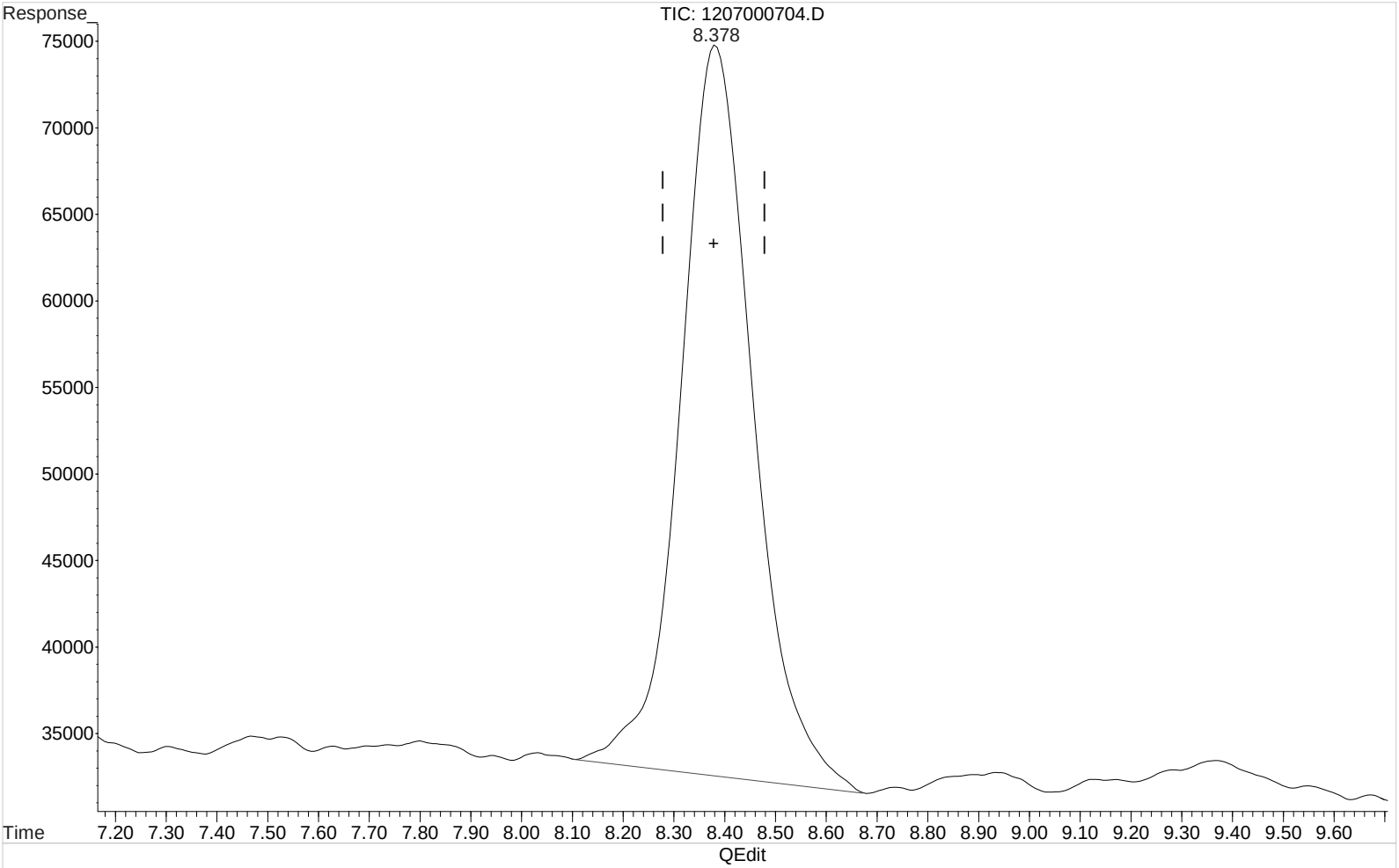
Quantitation Report (Qedit)

1st (b)(6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(4) RDX (T)

8.378min 0.000 ug/L m

response 420328

Manual Integration:

After

BLC

12/08/16

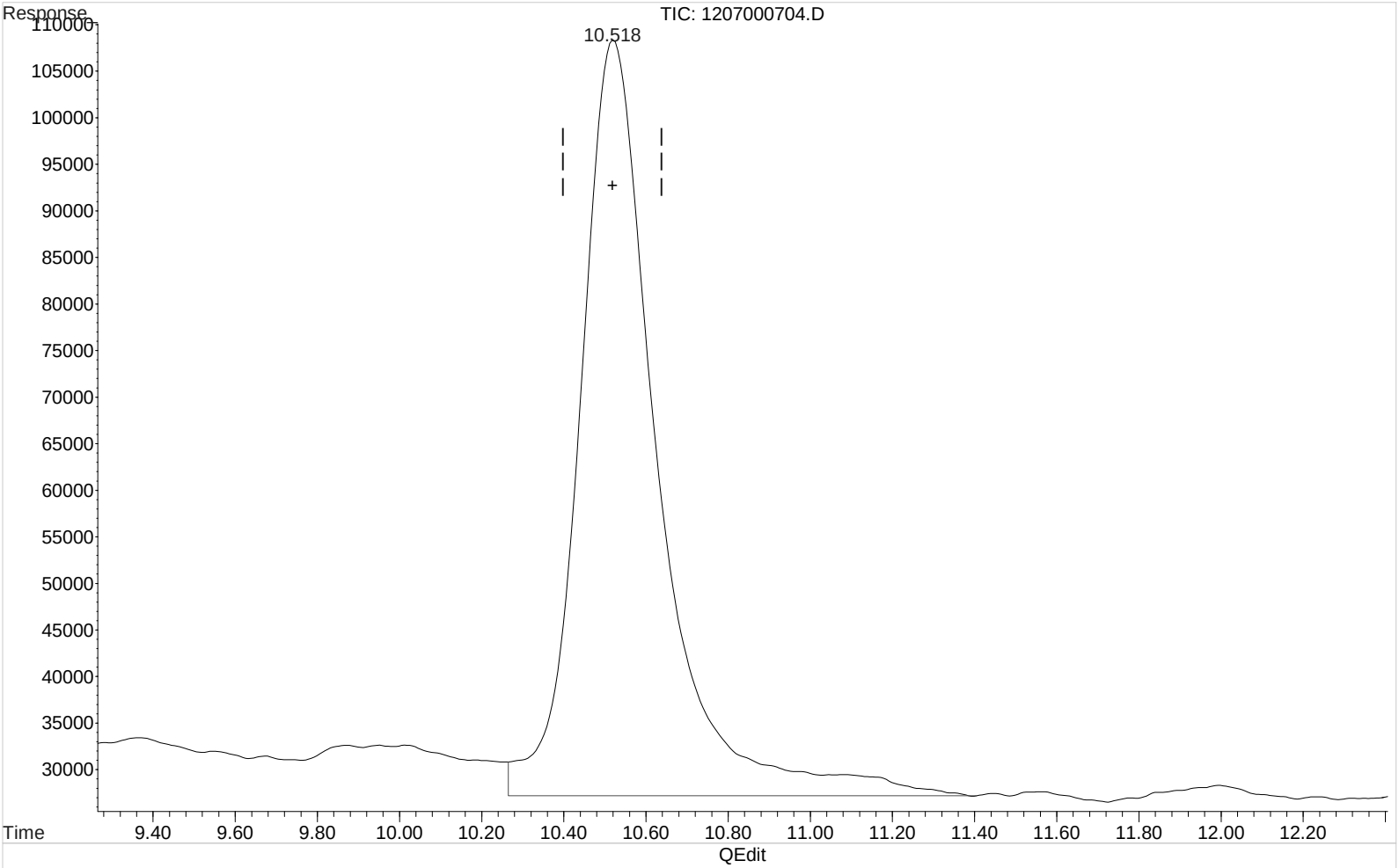
(+) = Expected Retention Time

(b) (6)
1st [redacted] 12/08/16
2n [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(5) 1,3,5-TNB (T)

10.518min 0.000 ug/L

response 1075873

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

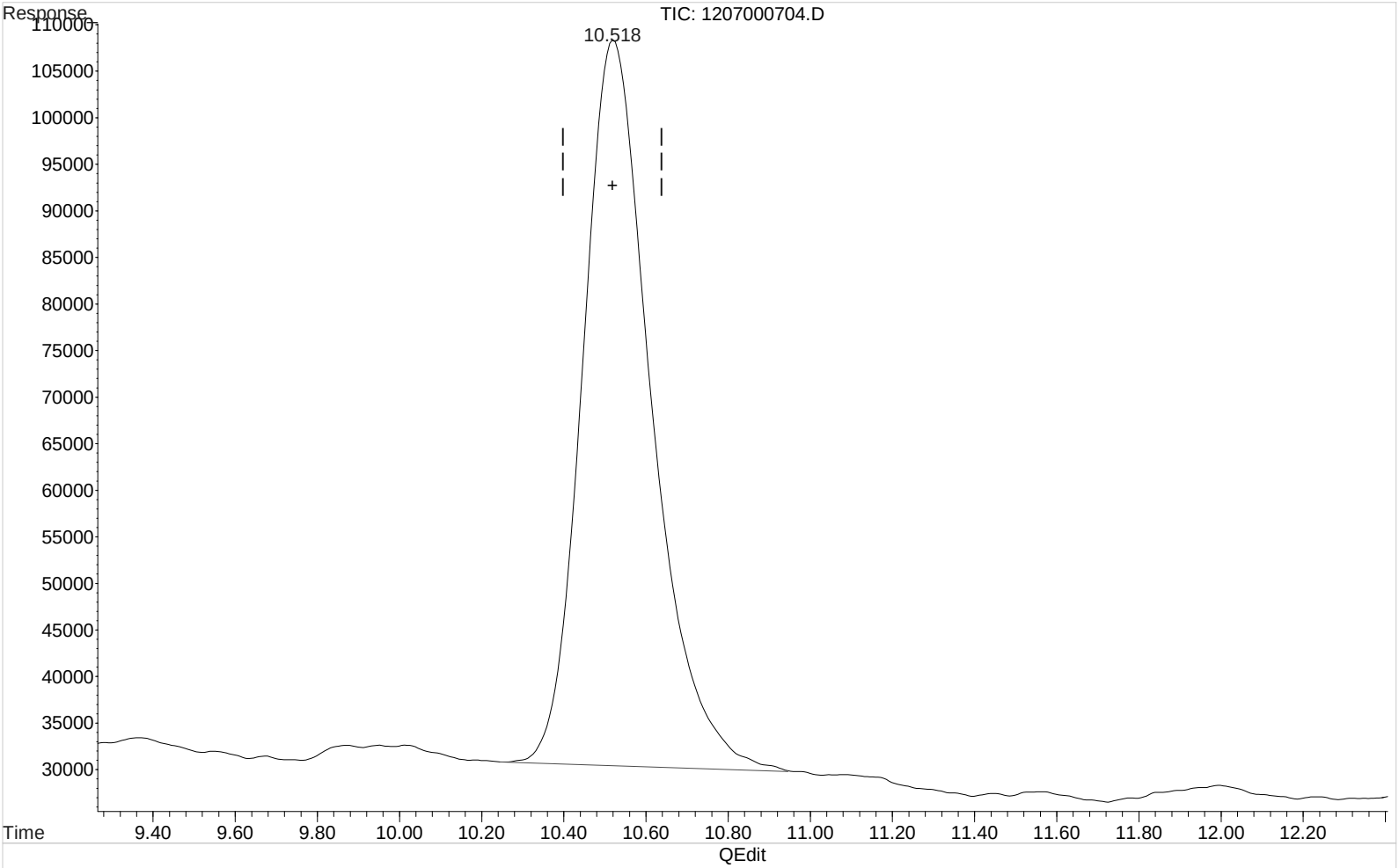
Quantitation Report (Qedit)

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(5) 1,3,5-TNB (T)

10.518min 0.000 ug/L m

response 908690

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

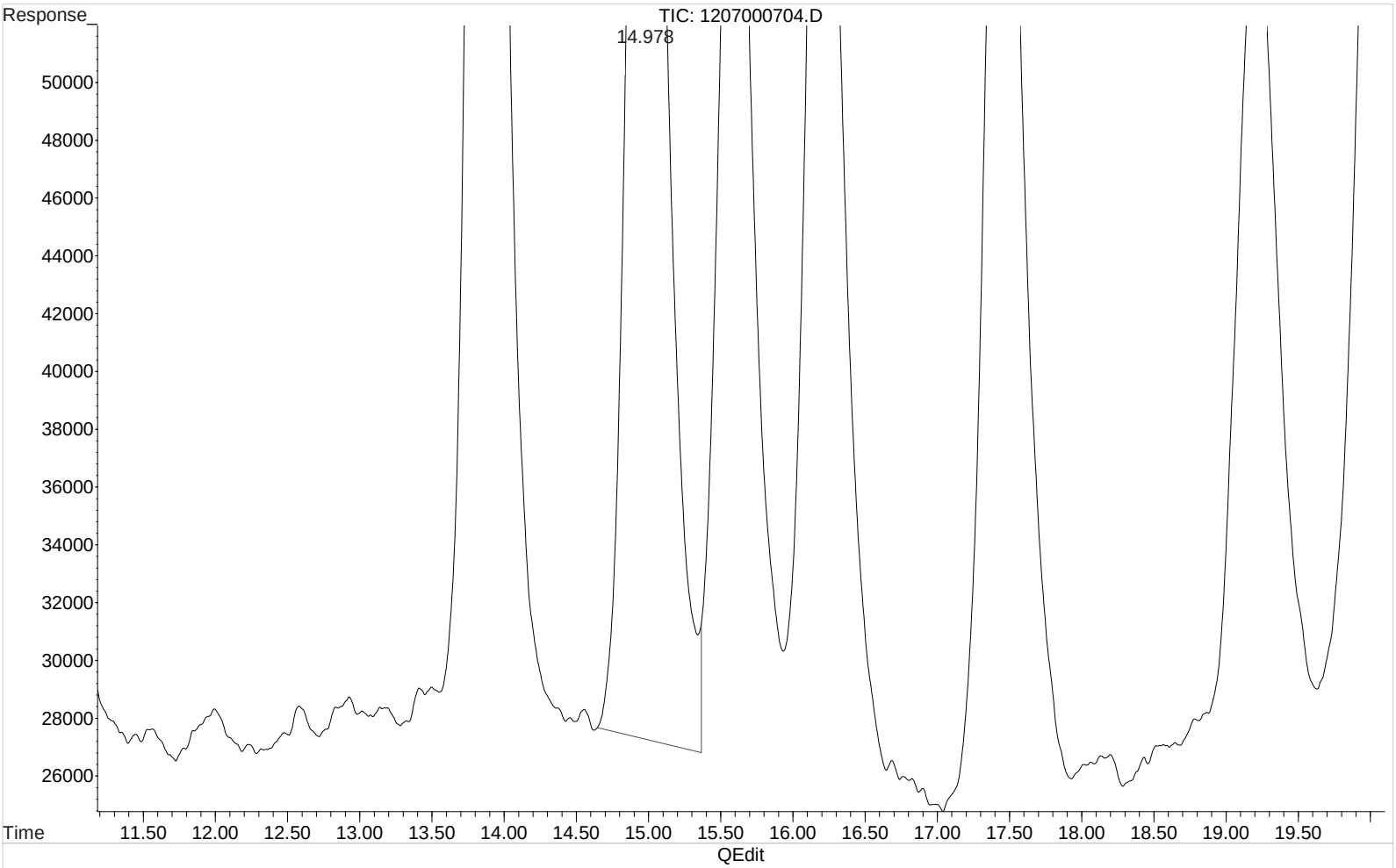
Quantitation Report (Qedit)

1st (b) (6) 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(7) 3,5-Dinitroaniline (T)

14.978min 0.000 ug/L

response 975452

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

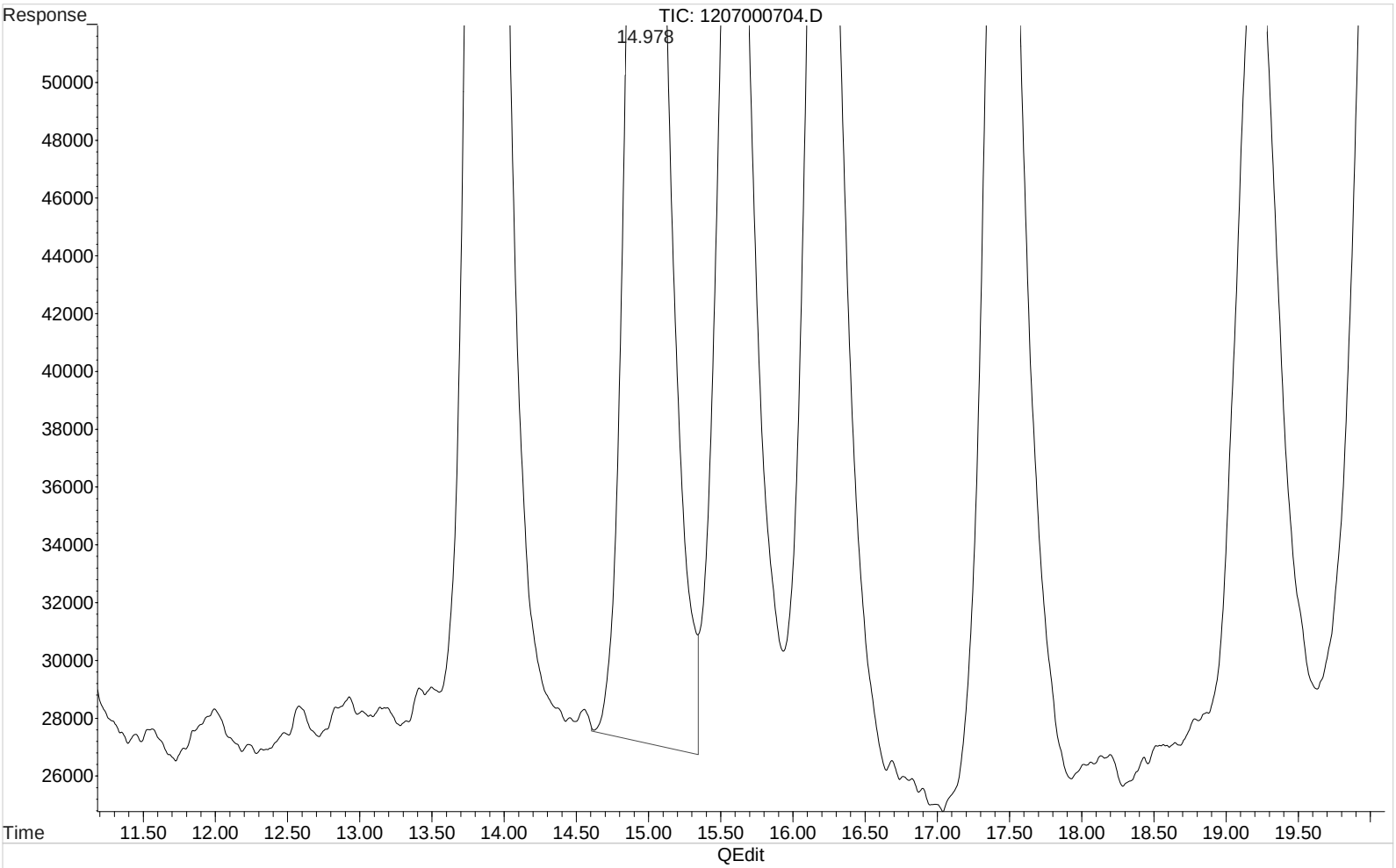
Quantitation Report (Qedit)

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.978min 0.000 ug/L m

response 975768

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)

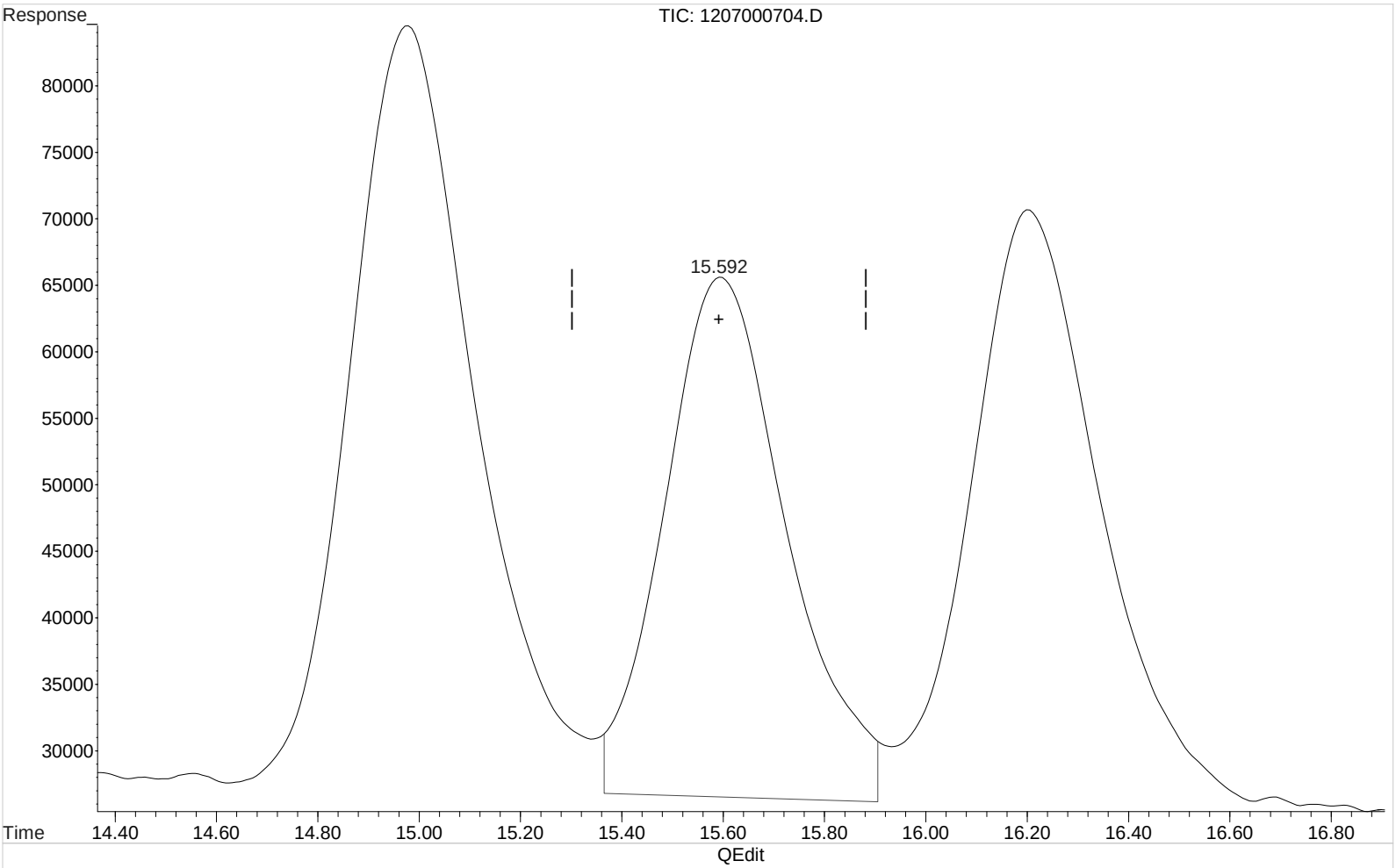
1st [redacted] 2/08/16

2nd [redacted] 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.592min 0.000 ug/L

response 653235

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

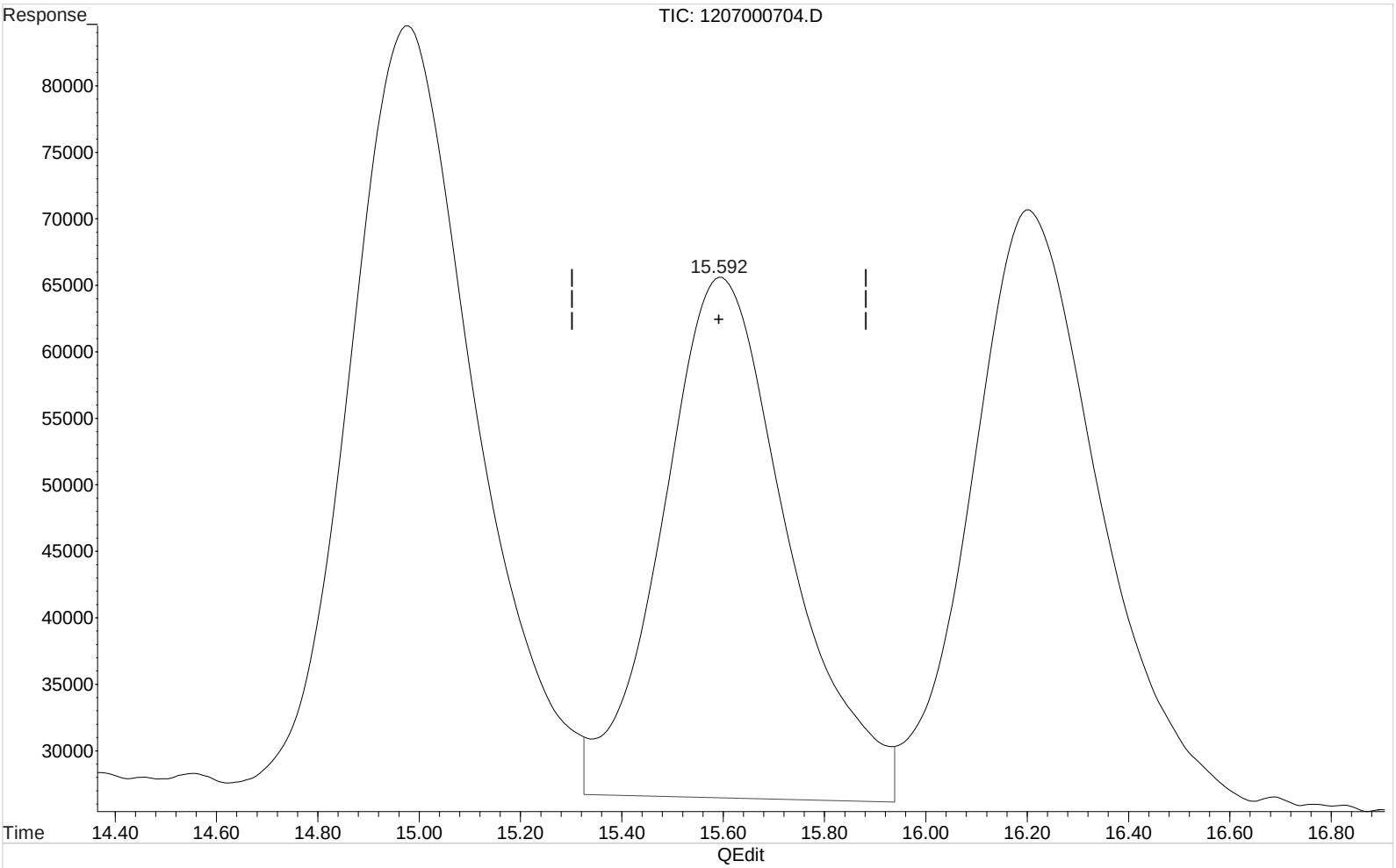
Quantitation Report (Qedit)

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.592min 0.000 ug/L m

response 673809

Manual Integration:

After

BLC

12/08/16

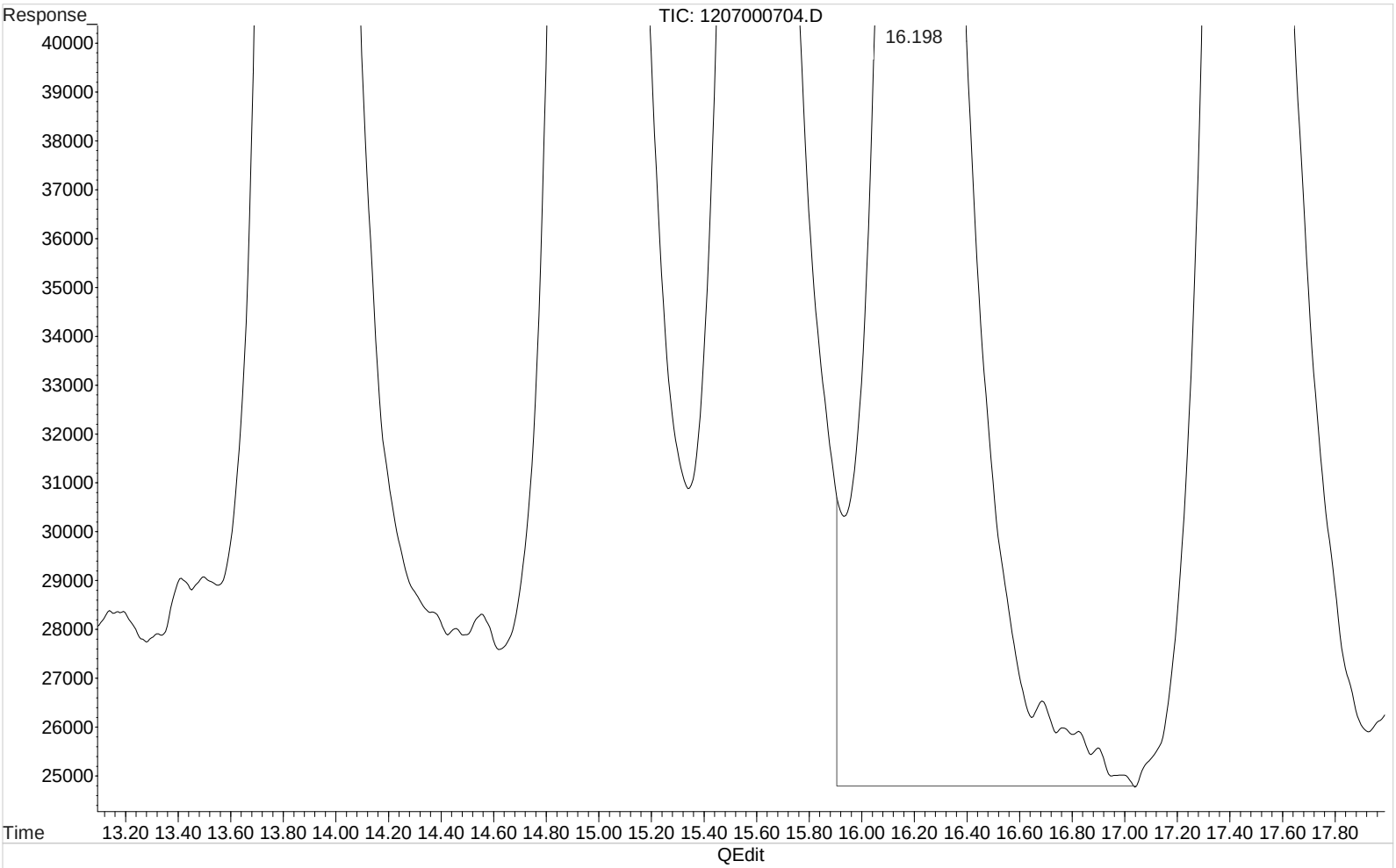
(+) = Expected Retention Time

(b) (6)
1st [redacted] 12/08/16
2n [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(9) Nitrobenzene (T)

16.198min 0.000 ug/L

response 865148

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

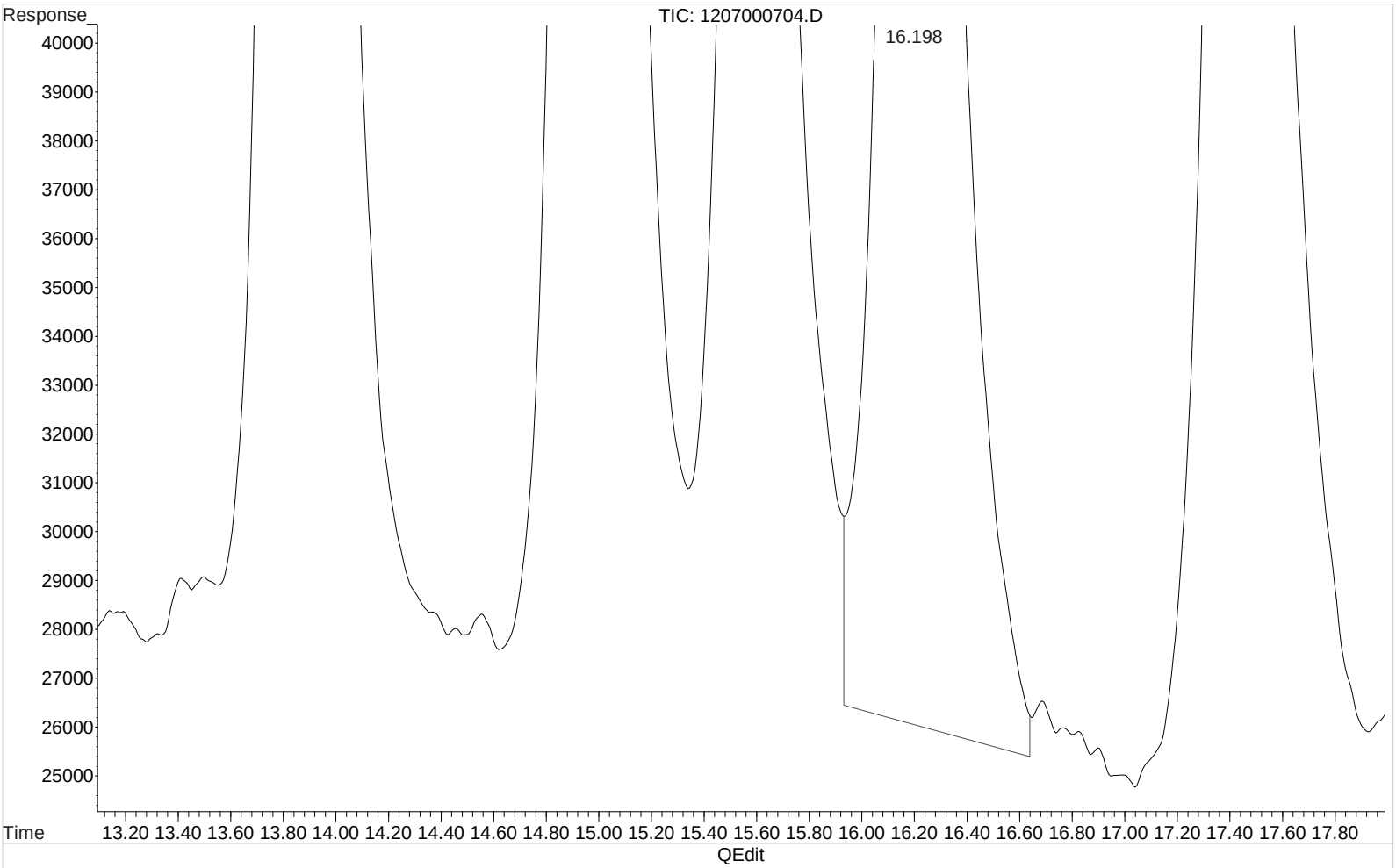
Quantitation Report (Qedit)

1st (b) (6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(9) Nitrobenzene (T)

16.198min 0.000 ug/L m

response 787874

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:09 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
18)	S	1-Chloro-3-Nitrobenzene	29.700	1102787	47.809	ug/L	m
		Target Compounds					
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	4.787	592400	50.916	ug/L	m
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	8.380	978940	46.580	ug/L	m
5)	T	1,3,5-TNB	10.520	2272781	50.023	ug/L	
6)	T	1,3-DNB	13.860	3069012	48.773	ug/L	m
7)	T	3,5-Dinitroaniline	14.967	2382128	48.826	ug/L	m
8)	T	Tetryl	15.587	1676426	49.760	ug/L	m
9)	T	Nitrobenzene	16.200	1950750	49.519	ug/L	m
10)	T	2,4,6-TNT	17.447	2100866	52.688	ug/L	m
11)	T	4-Amino-2,6-DNT	19.200	1535717	57.134	ug/L	m
12)	T	2-Amino-4,6-DNT	20.034	2085917	43.852	ug/L	m
13)	T	2,6-DNT	21.760	1280625	NoCal	ug/L	m
14)	T	2,4-DNT	22.214	2955148	51.322	ug/L	m
15)	T	2-NT	25.327	912402	52.158	ug/L	m
16)	T	4-NT	26.254	806643	50.422	ug/L	m
17)	T	3-NT	27.380	982059	47.770	ug/L	m

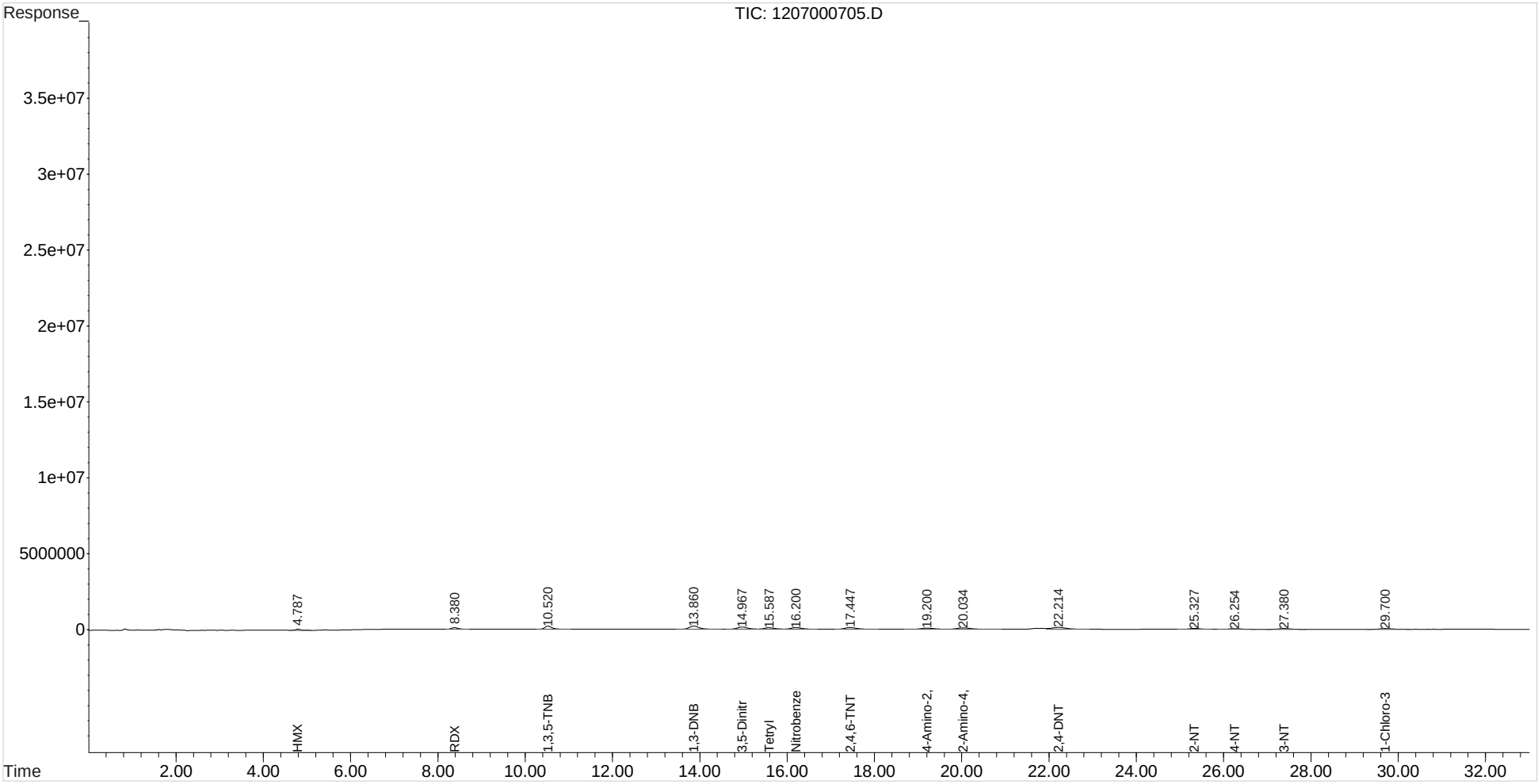
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:09 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

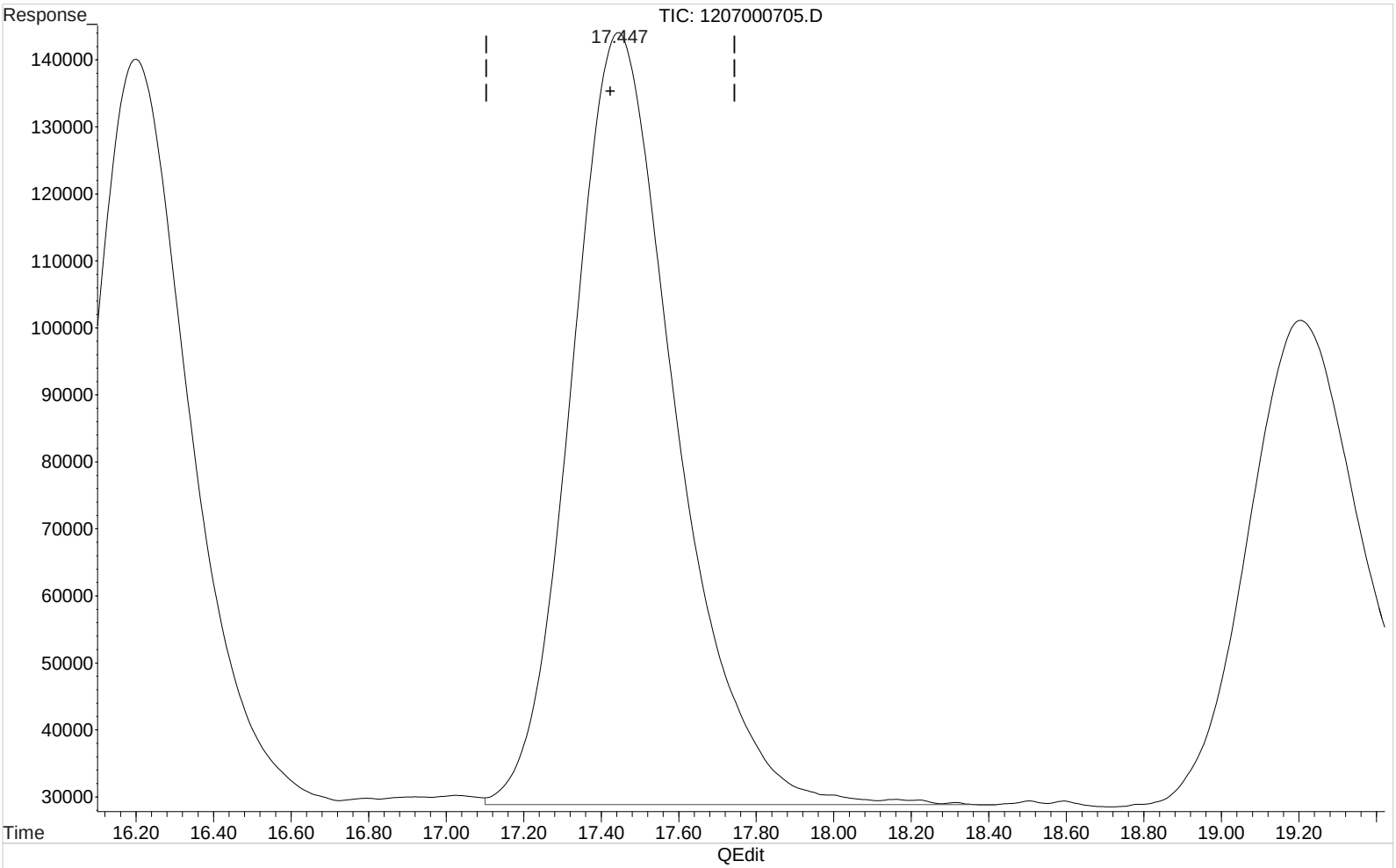


(b) (6)
1s 2/08/16
2n 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(10) 2,4,6-TNT (T)

17.447min 54.187 ug/L

response 2160666

Manual Integration:

Before

12/08/16

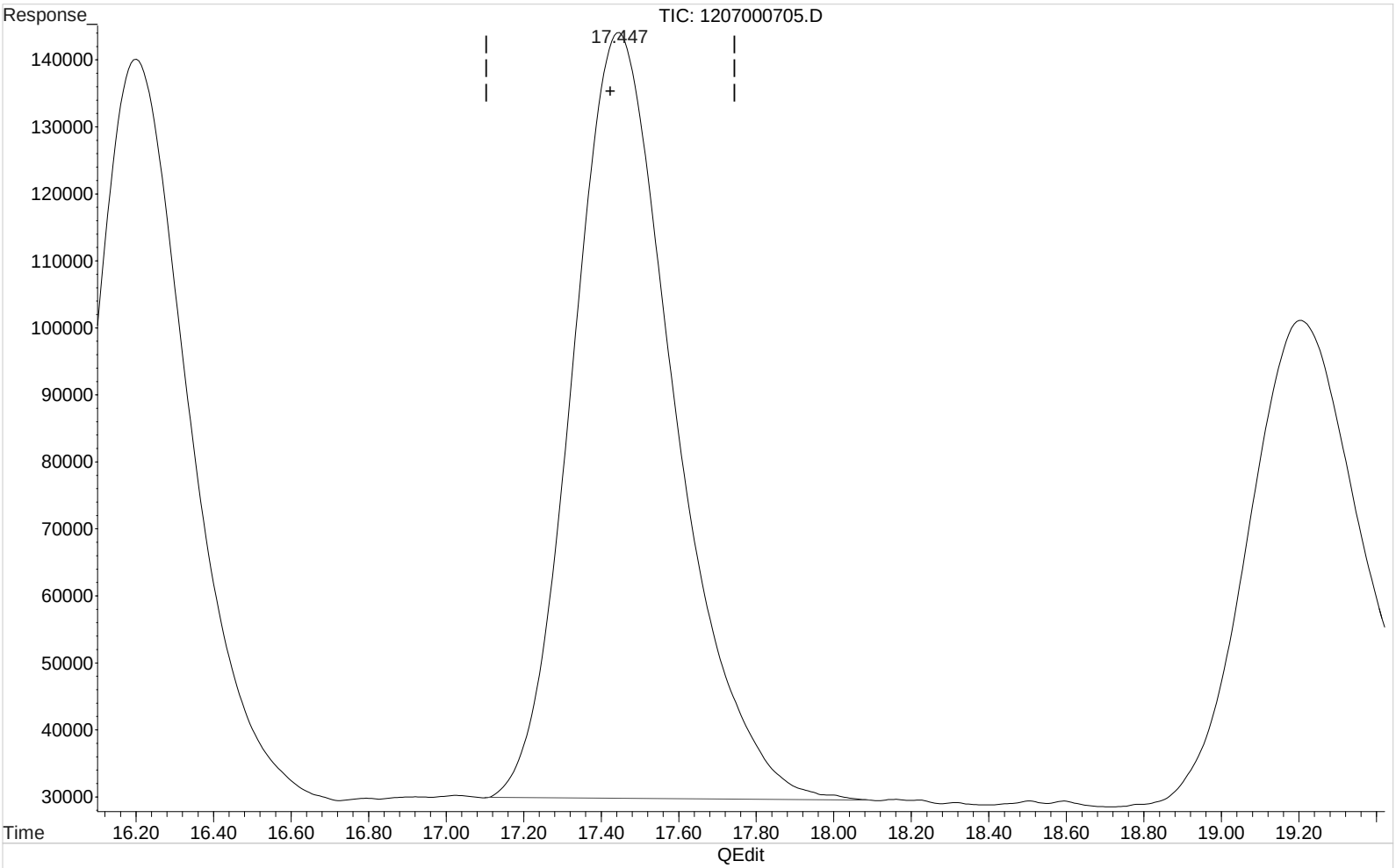
(+) = Expected Retention Time

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(10) 2,4,6-TNT (T)

17.447min 52.688 ug/L m

response 2100866

Manual Integration:

After

BLC

12/08/16

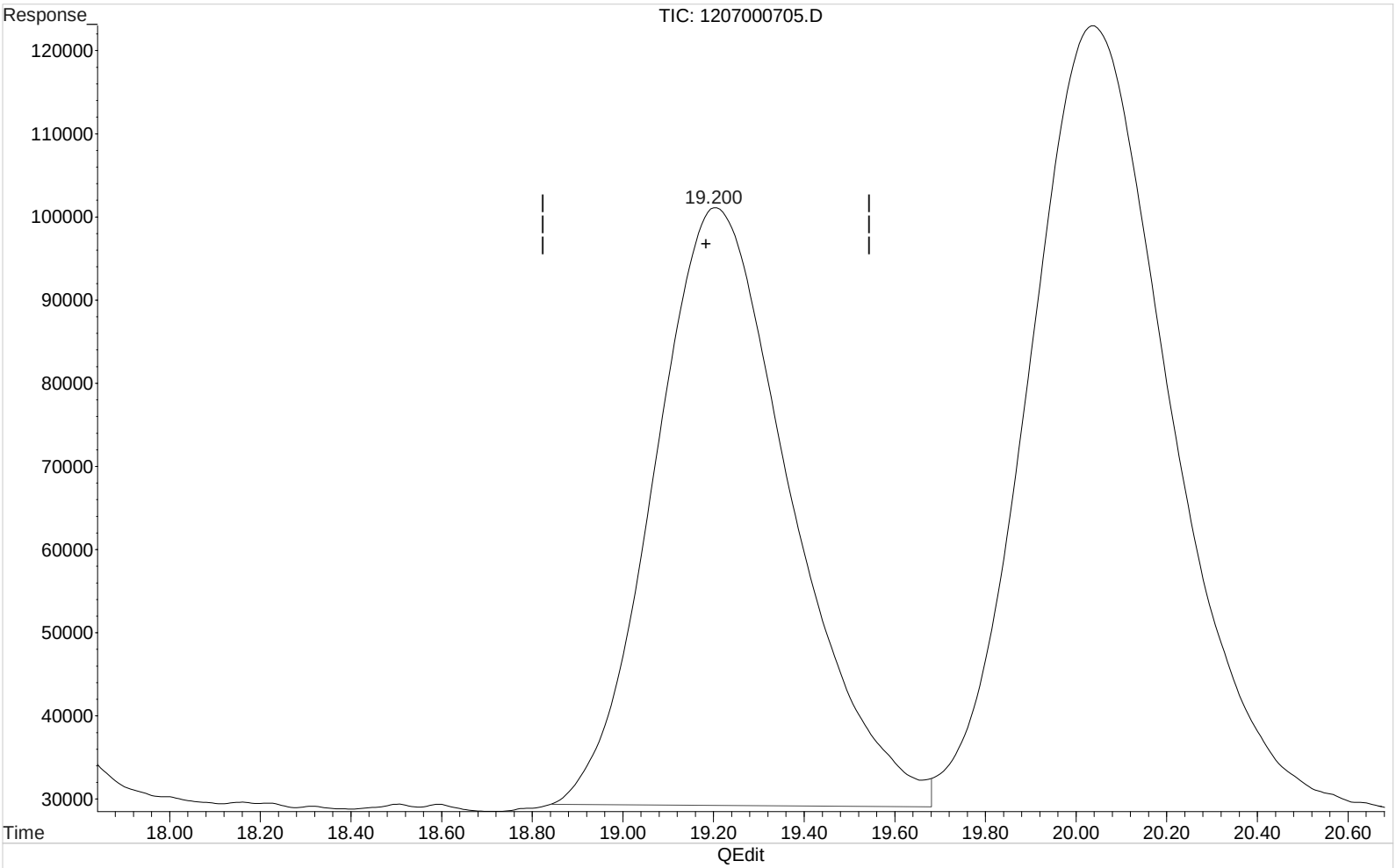
(+) = Expected Retention Time

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(11) 4-Amino-2,6-DNT (T)

19.200min 55.799 ug/L

response 1499828

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b)(6)

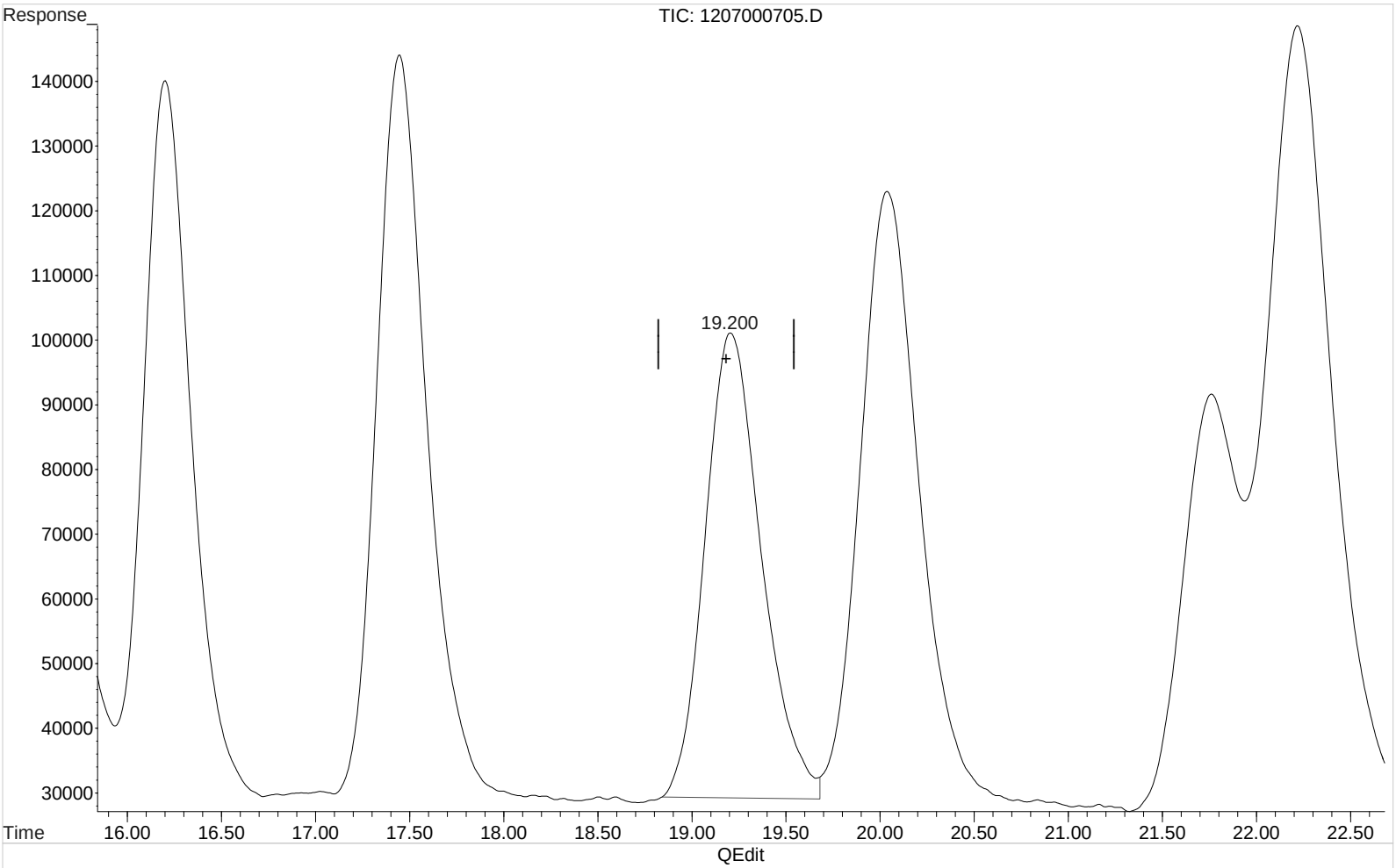
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(11) 4-Amino-2,6-DNT (T)

19.200min 55.799 ug/L

response 1499828

Manual Integration:

Before

12/08/16

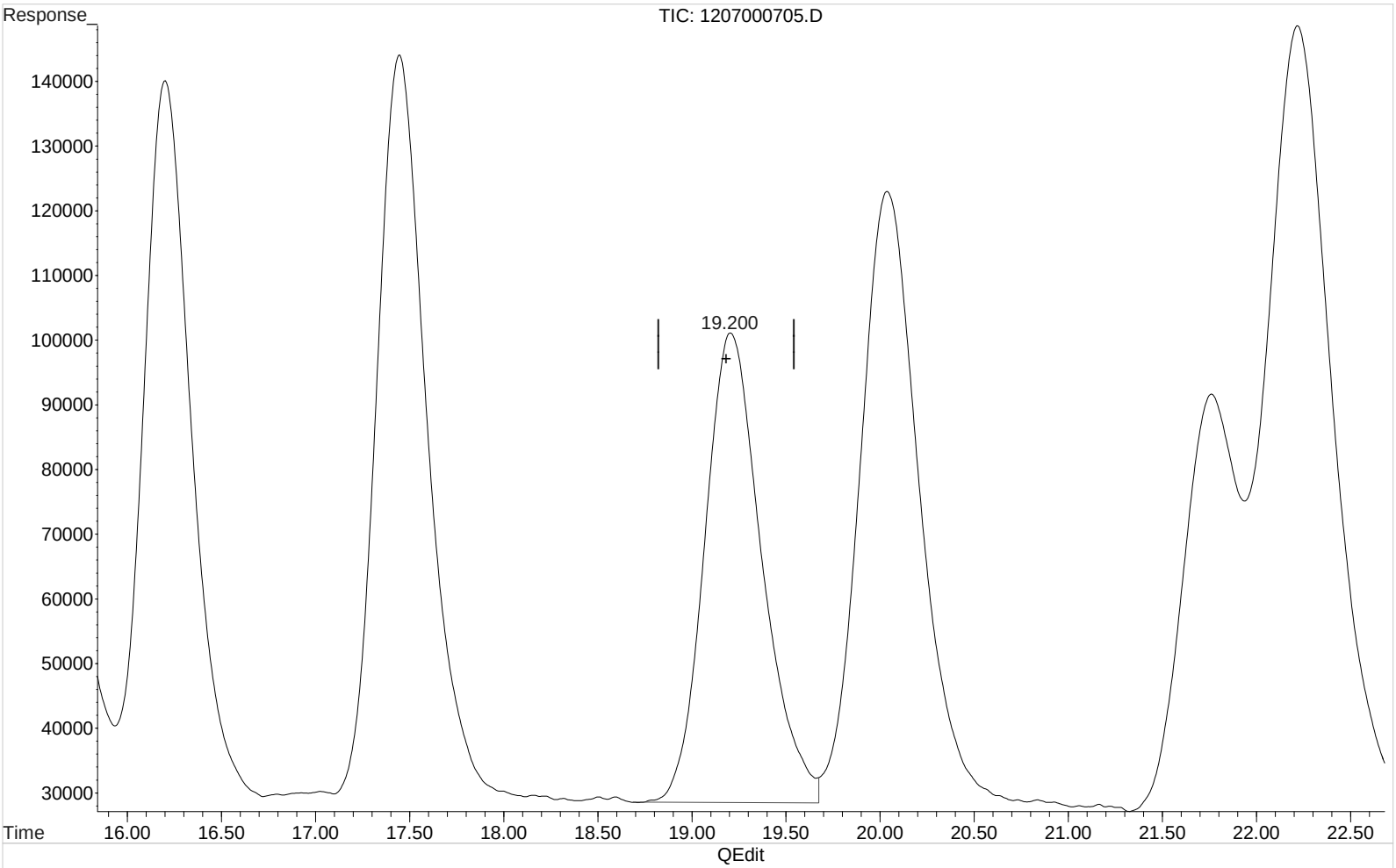
(+) = Expected Retention Time

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(11) 4-Amino-2,6-DNT (T)

19.200min 57.134 ug/L m

response 1535717

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (Qedit)

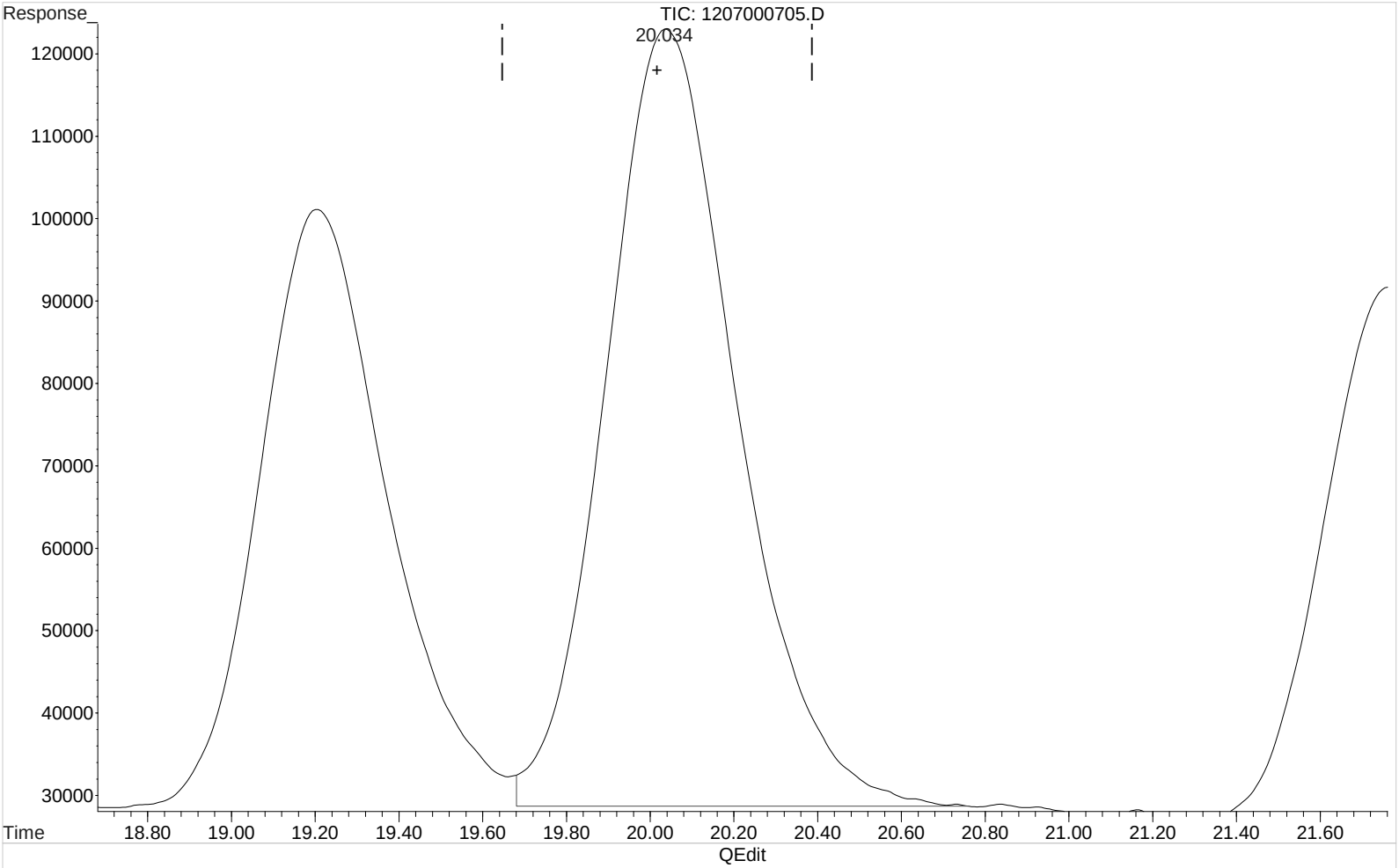
(b)(6)

1st 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(12) 2-Amino-4,6-DNT (T)

20.034min 43.047 ug/L

response 2047627

Manual Integration:

Before

12/08/16

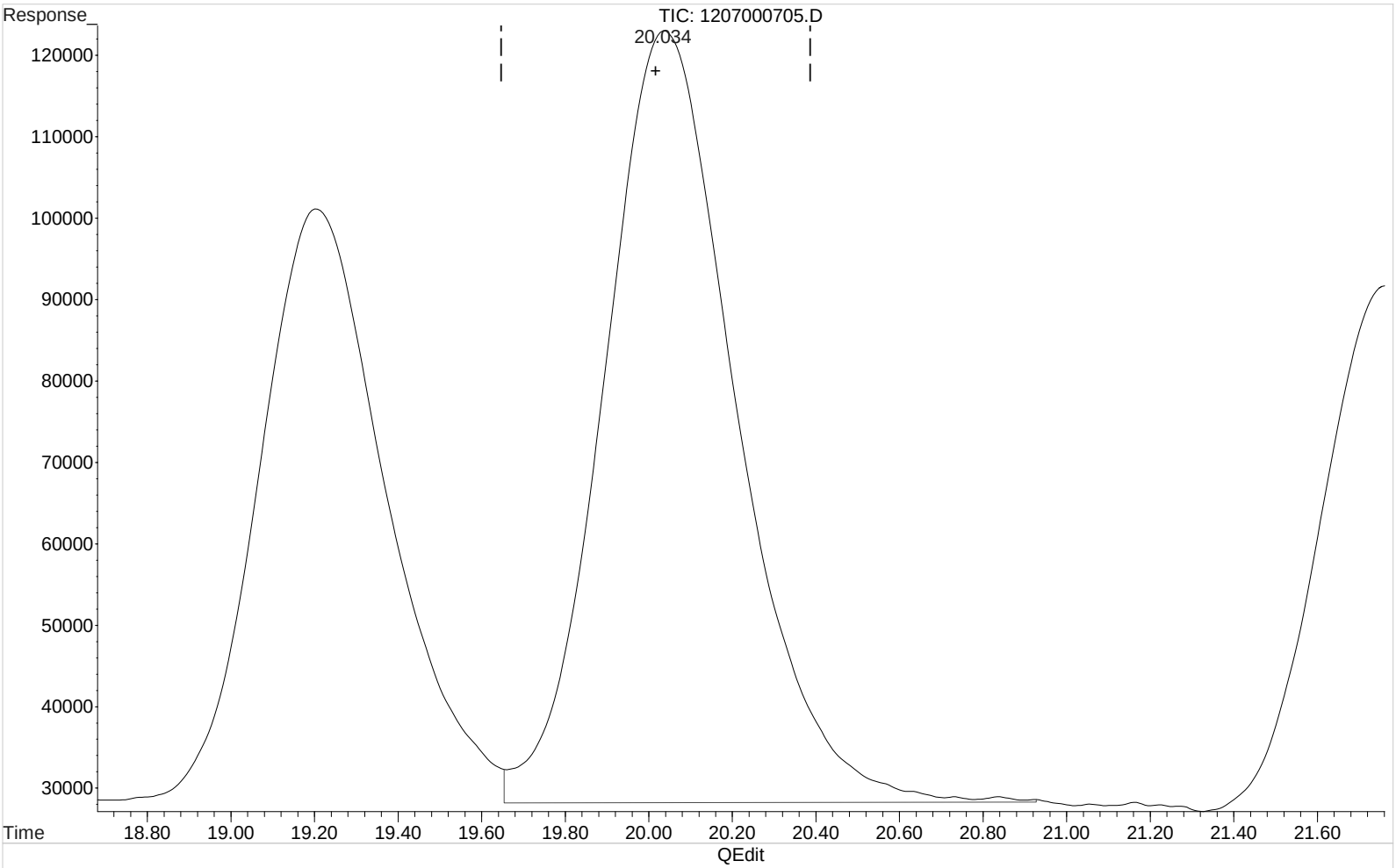
(+) = Expected Retention Time

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(12) 2-Amino-4,6-DNT (T)

20.034min 43.890 ug/L m

response 2087710

Manual Integration:

Before

12/08/16

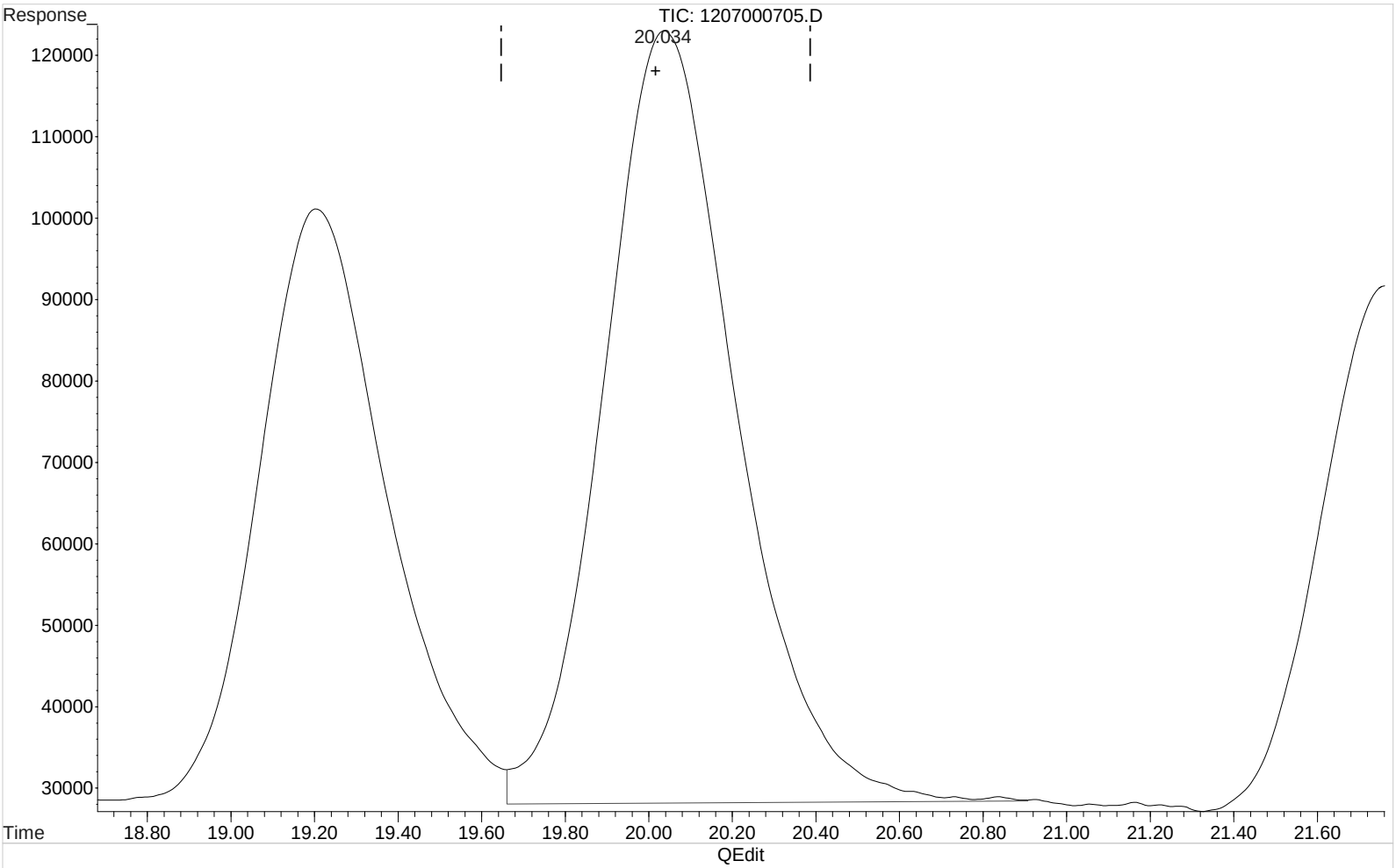
(+) = Expected Retention Time

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(12) 2-Amino-4,6-DNT (T)

20.034min 43.852 ug/L m

response 2085917

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

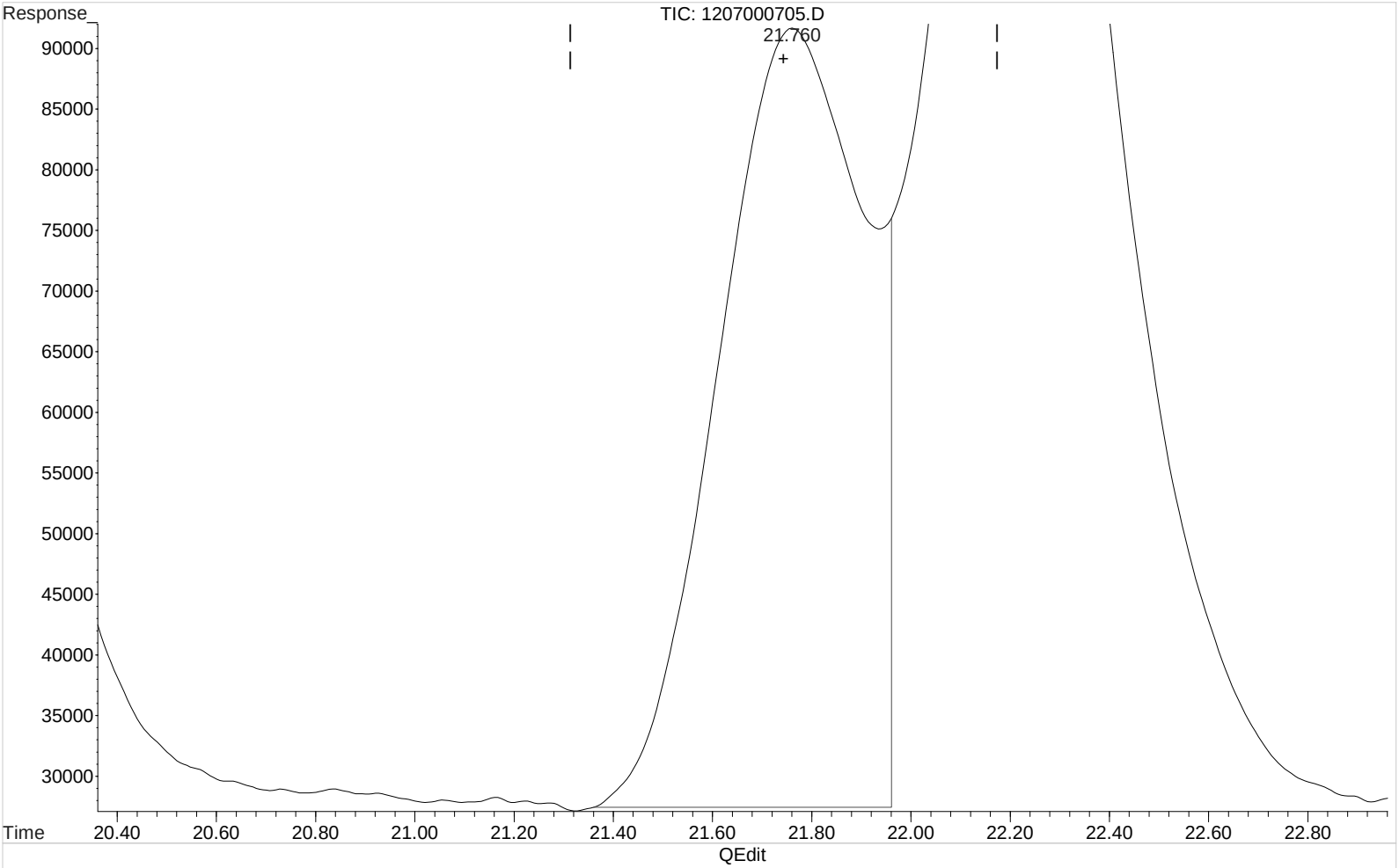
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.760min 0.000 ug/L

response 1327592

Manual Integration:

Before

12/08/16

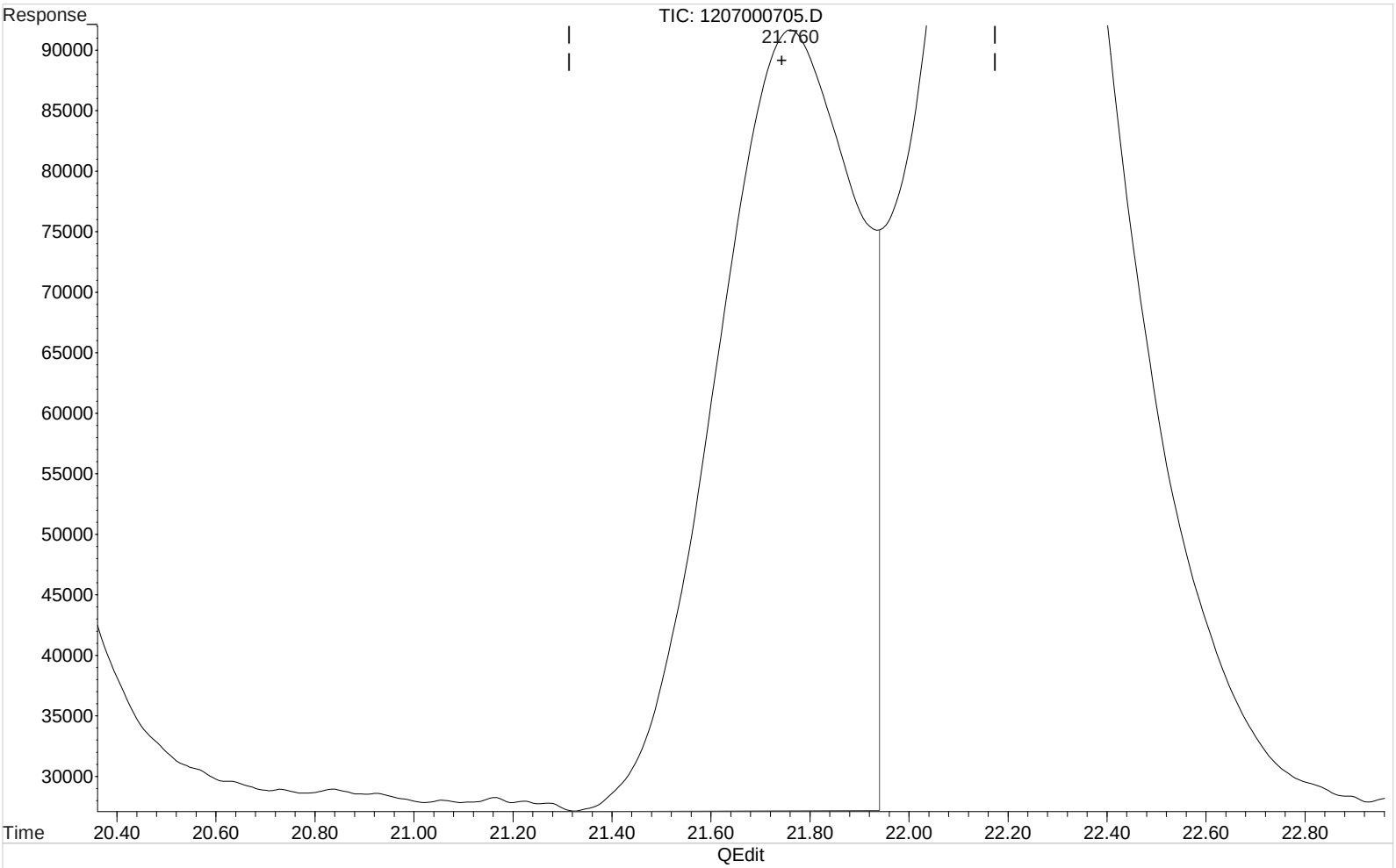
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.760min 0.000 ug/L m

response 1280625

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

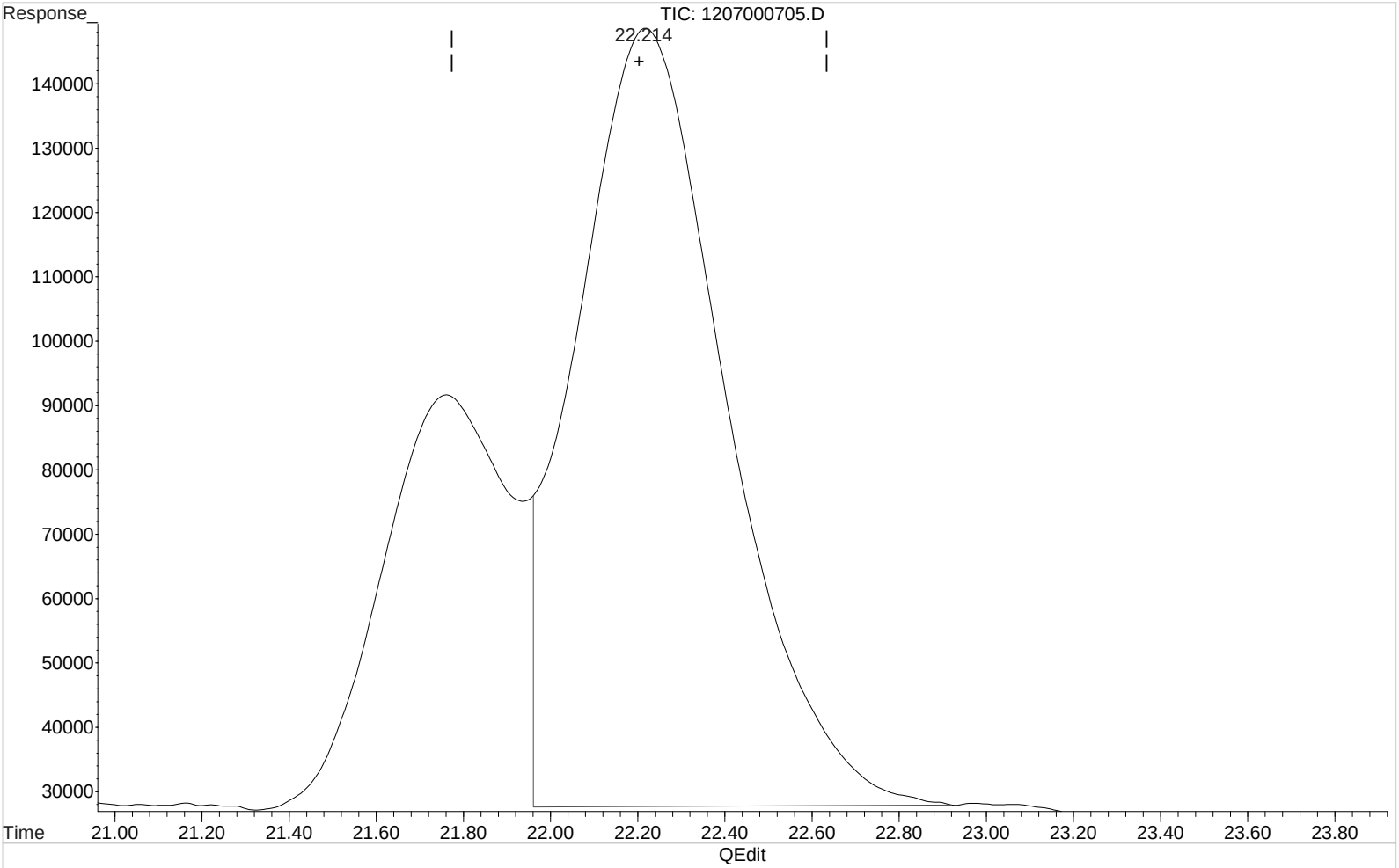
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.214min 50.242 ug/L

response 2892987

Manual Integration:

Before

12/08/16

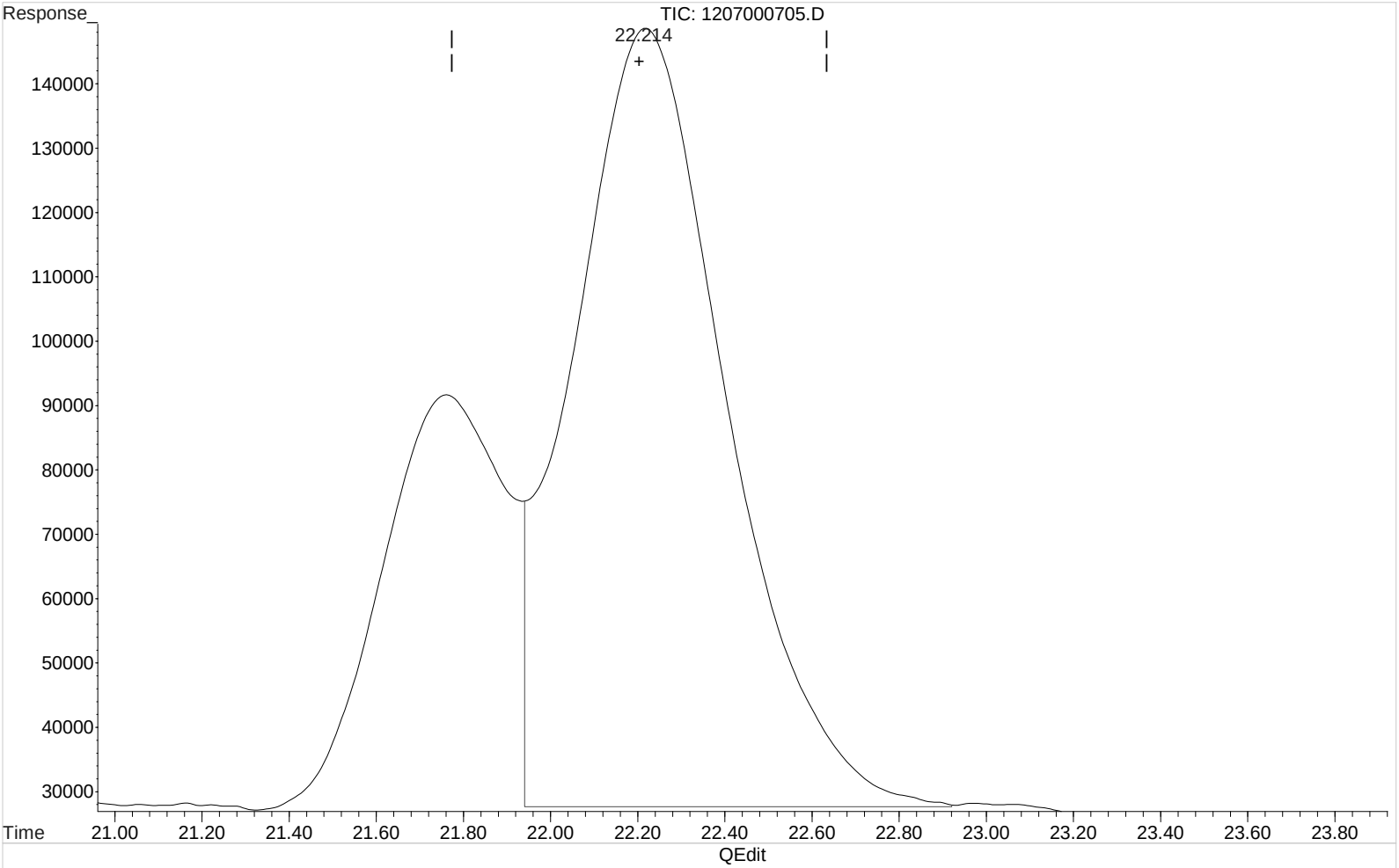
(+) = Expected Retention Time

(b)(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.214min 51.322 ug/L m

response 2955148

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b)(6)

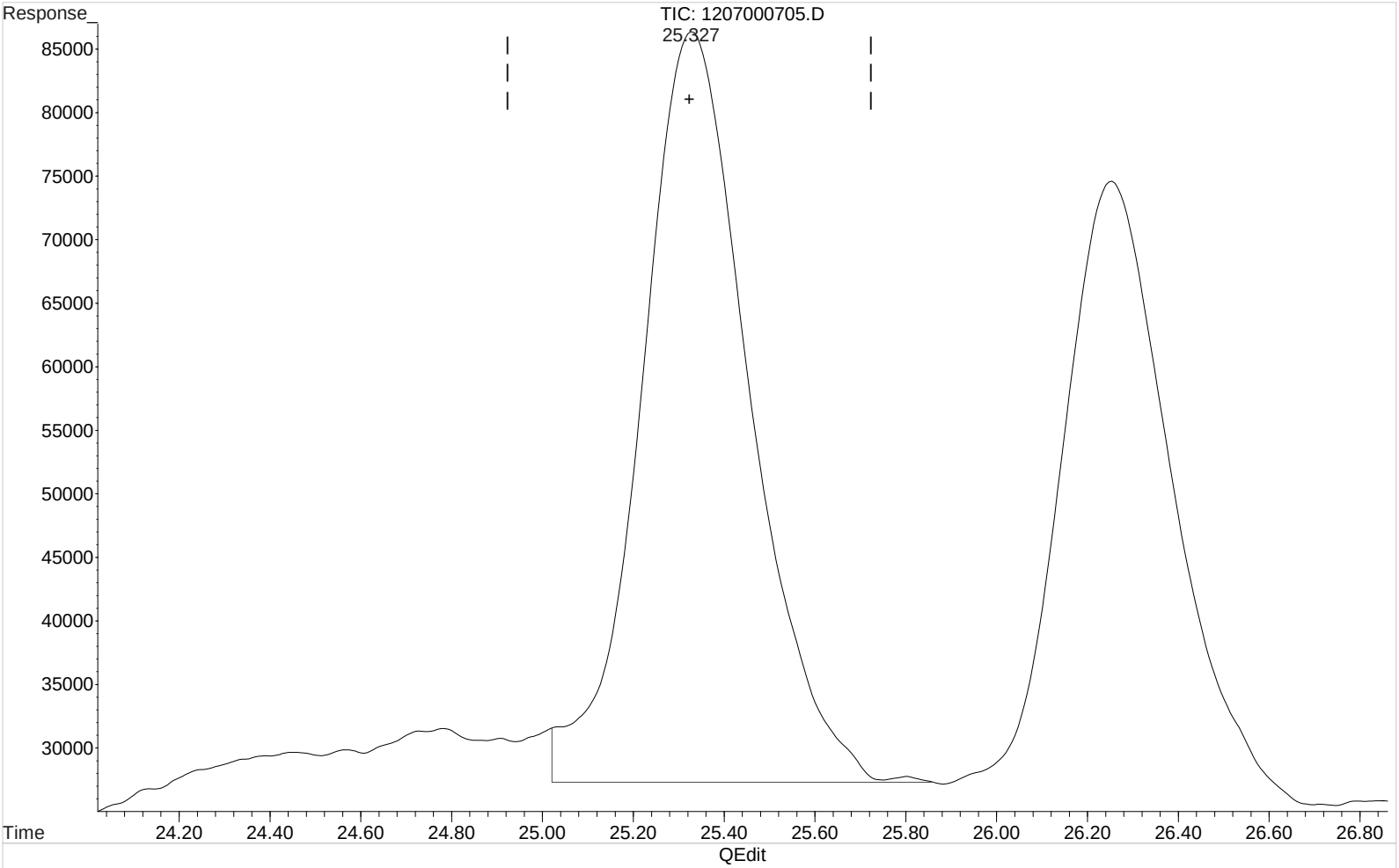
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.327min 56.083 ug/L

response 981052

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

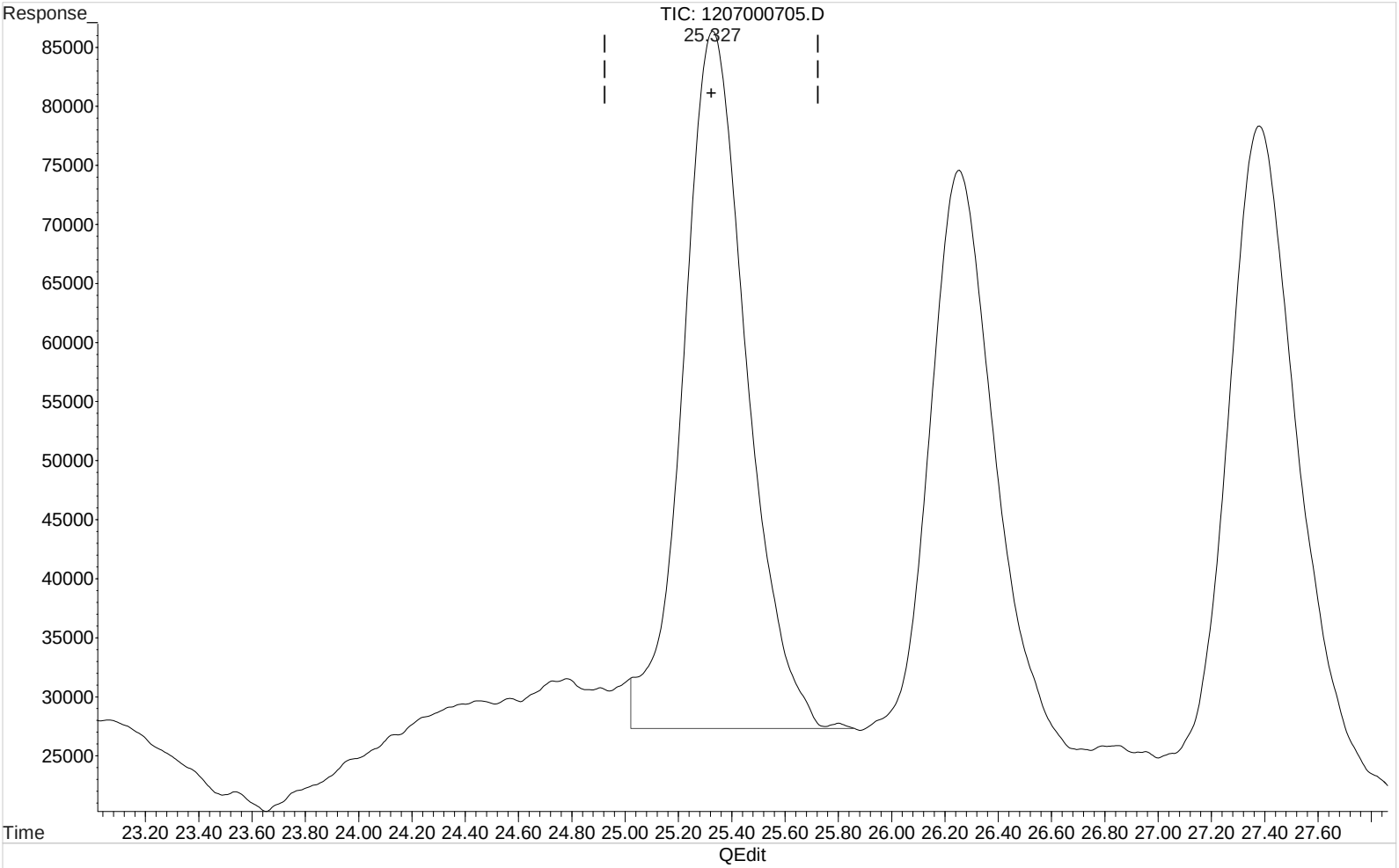
Quantitation Report (Qedit)

1st (b) (6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.327min 56.083 ug/L

response 981052

Manual Integration:

Before

12/08/16

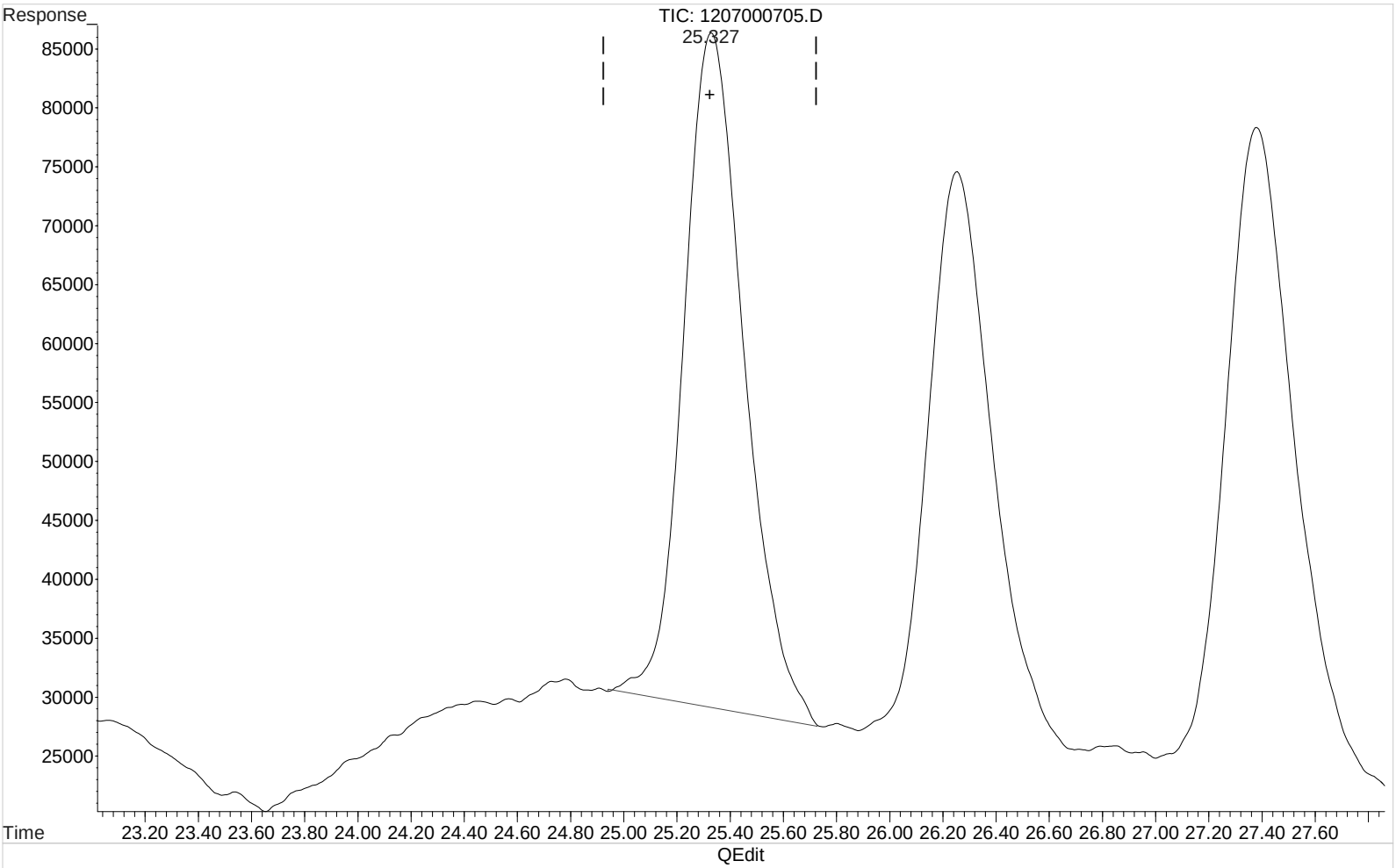
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.327min 52.158 ug/L m

response 912402

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

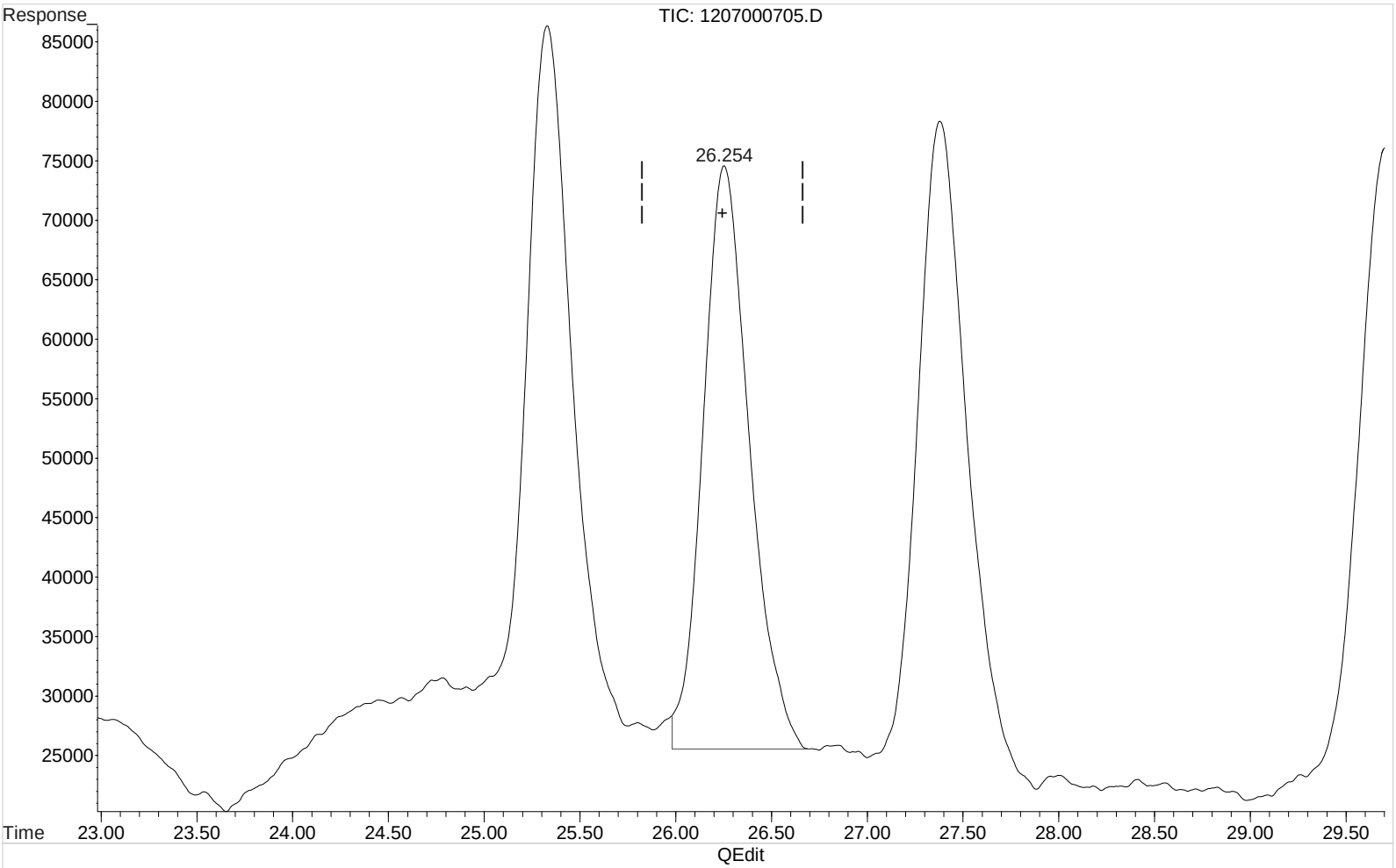
Quantitation Report (Qedit)

(b) (6)
1st [redacted] 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.254min 51.817 ug/L

response 828954

Manual Integration:

Before

12/08/16

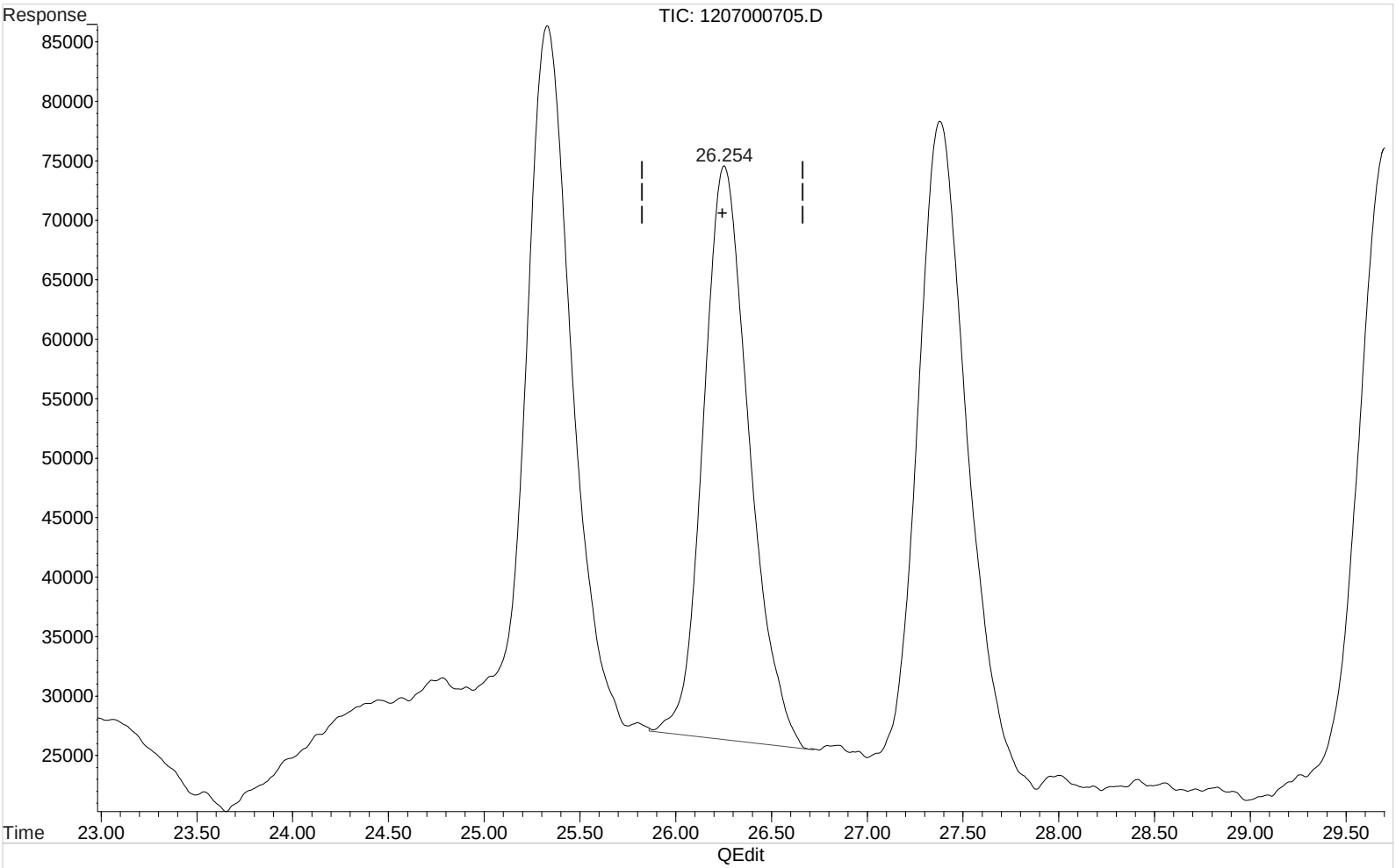
(+) = Expected Retention Time

1st (b) (6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.254min 50.422 ug/L m

response 806643

Manual Integration:

After

BLC

12/08/16

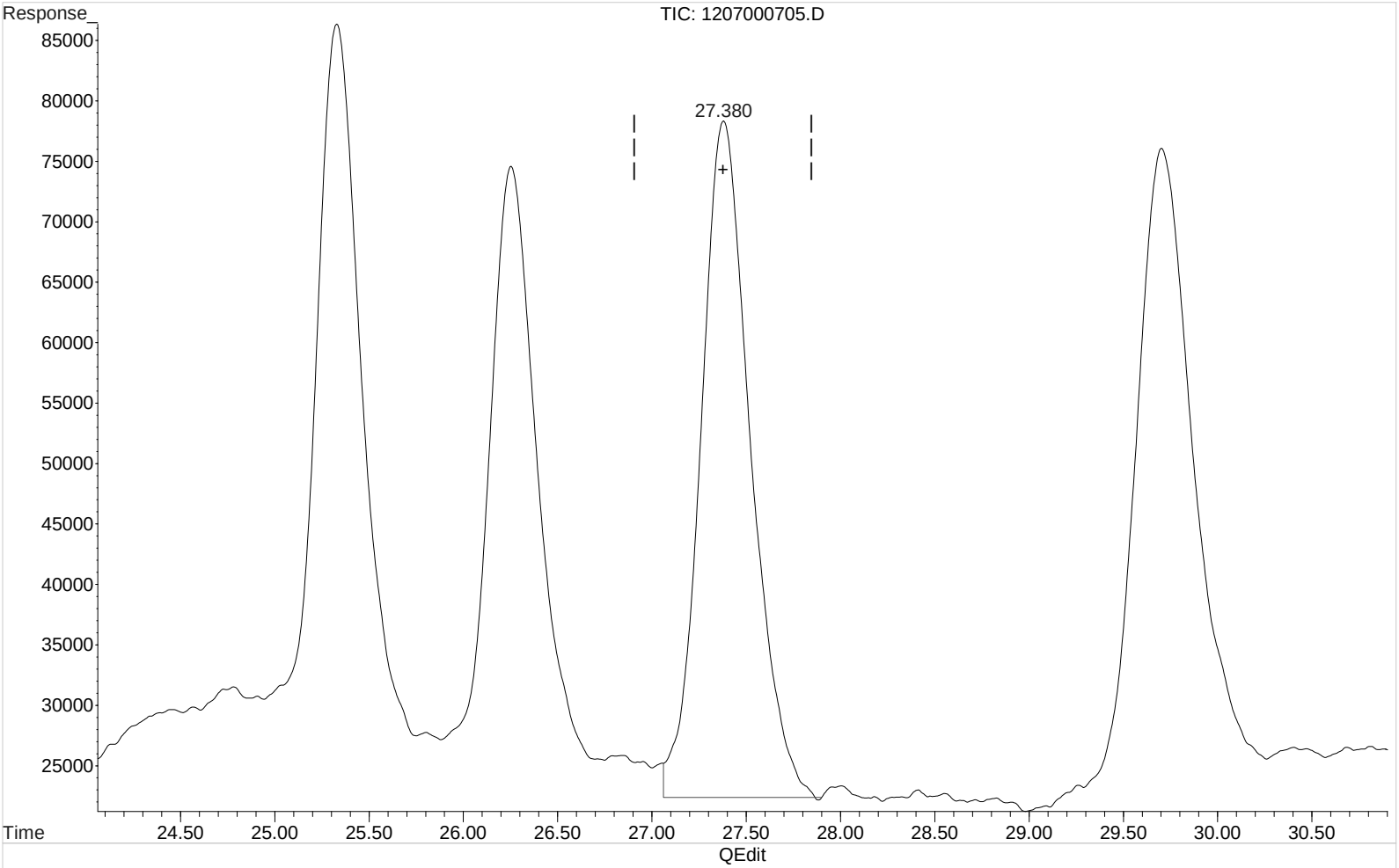
(+) = Expected Retention Time

(b) (6)
1st 2/08/16
2n 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.380min 50.117 ug/L

response 1030312

Manual Integration:

Before

12/08/16

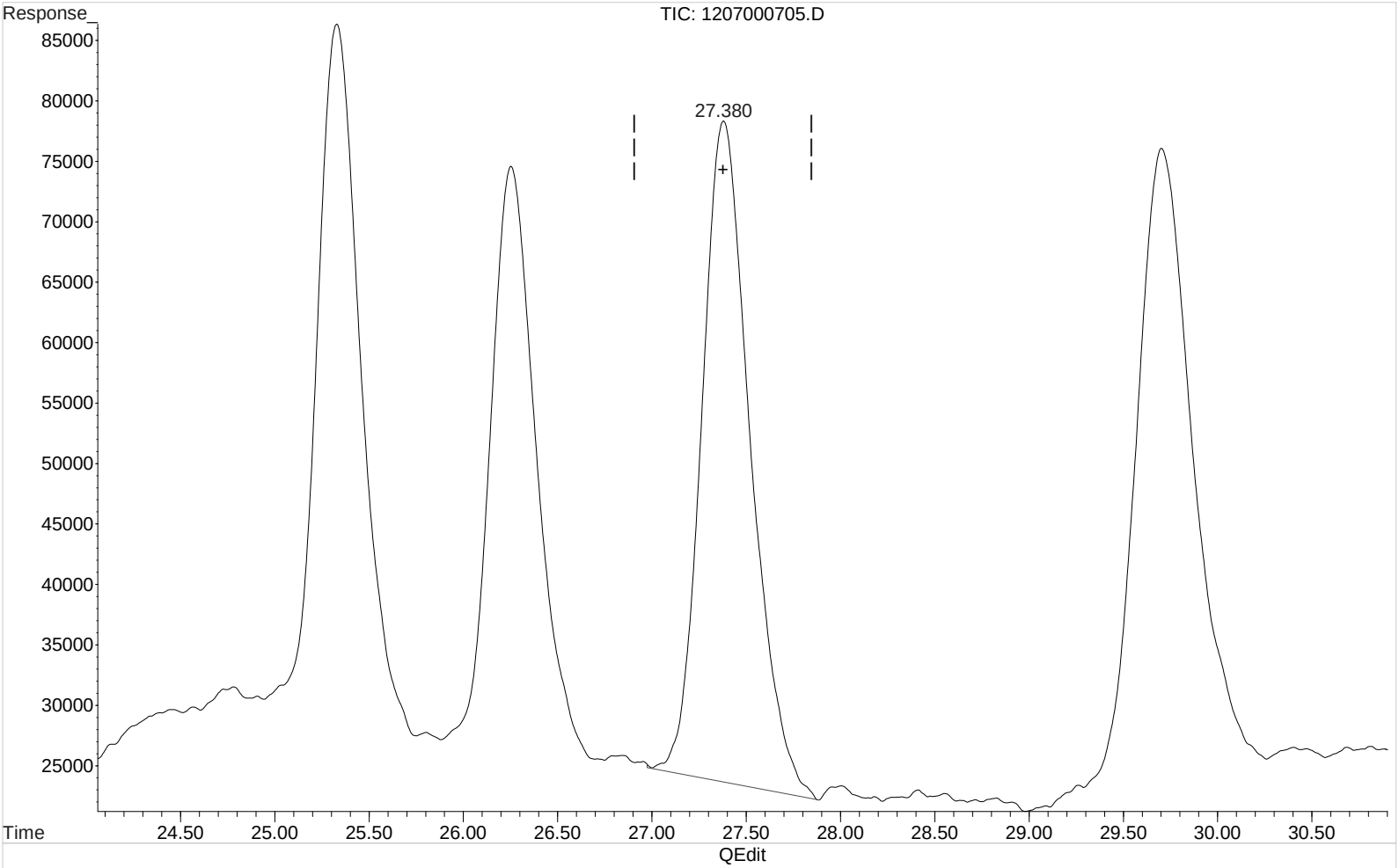
(+) = Expected Retention Time

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.380min 47.770 ug/L m

response 982059

Manual Integration:

After

BLC

12/08/16

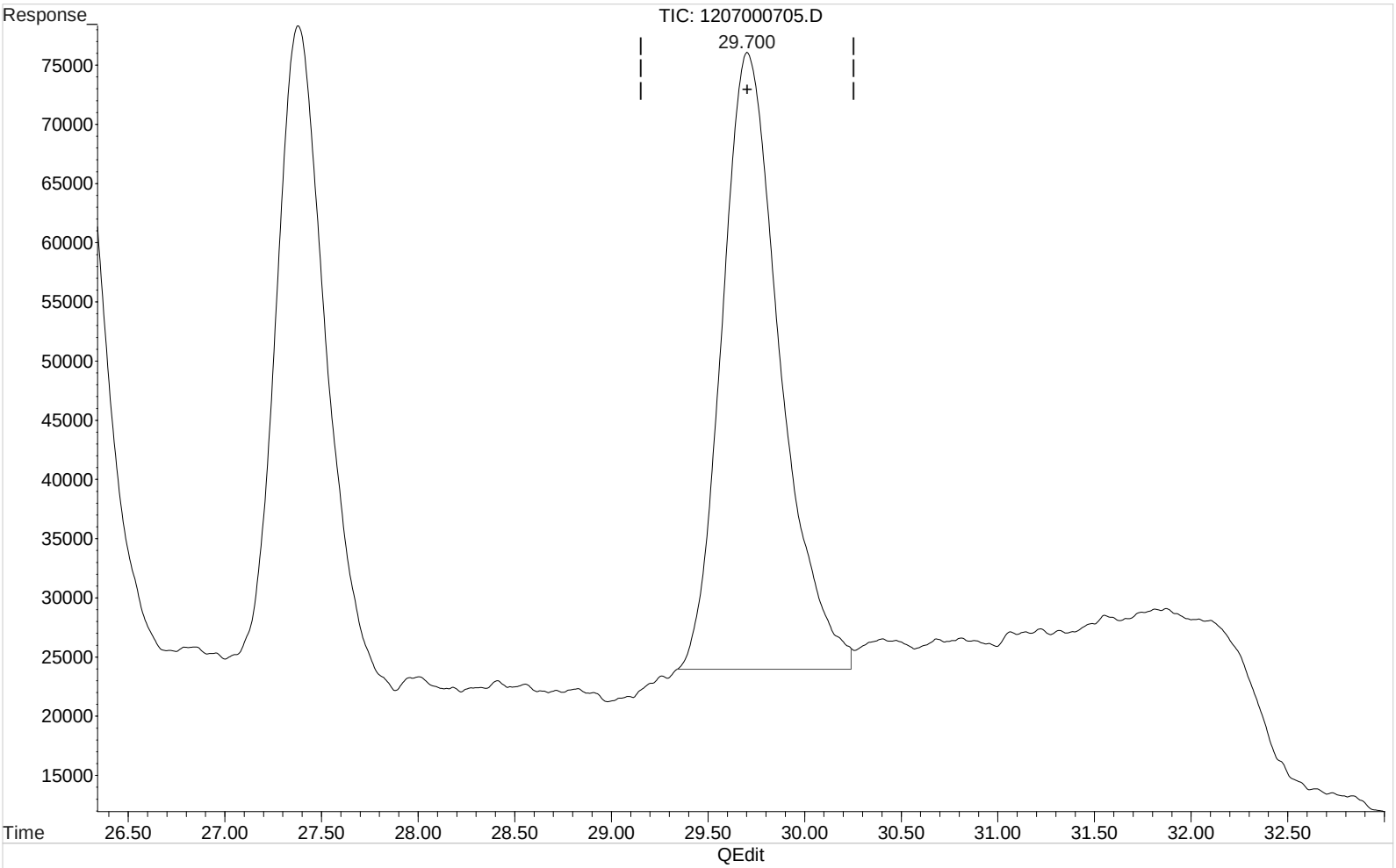
(+) = Expected Retention Time

(b)(6)
1st 12/08/16
2n 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(18) 1-Chloro-3-Nitrobenzene (S)

29.700min 47.408 ug/L

response 1093549

Manual Integration:

Before

12/08/16

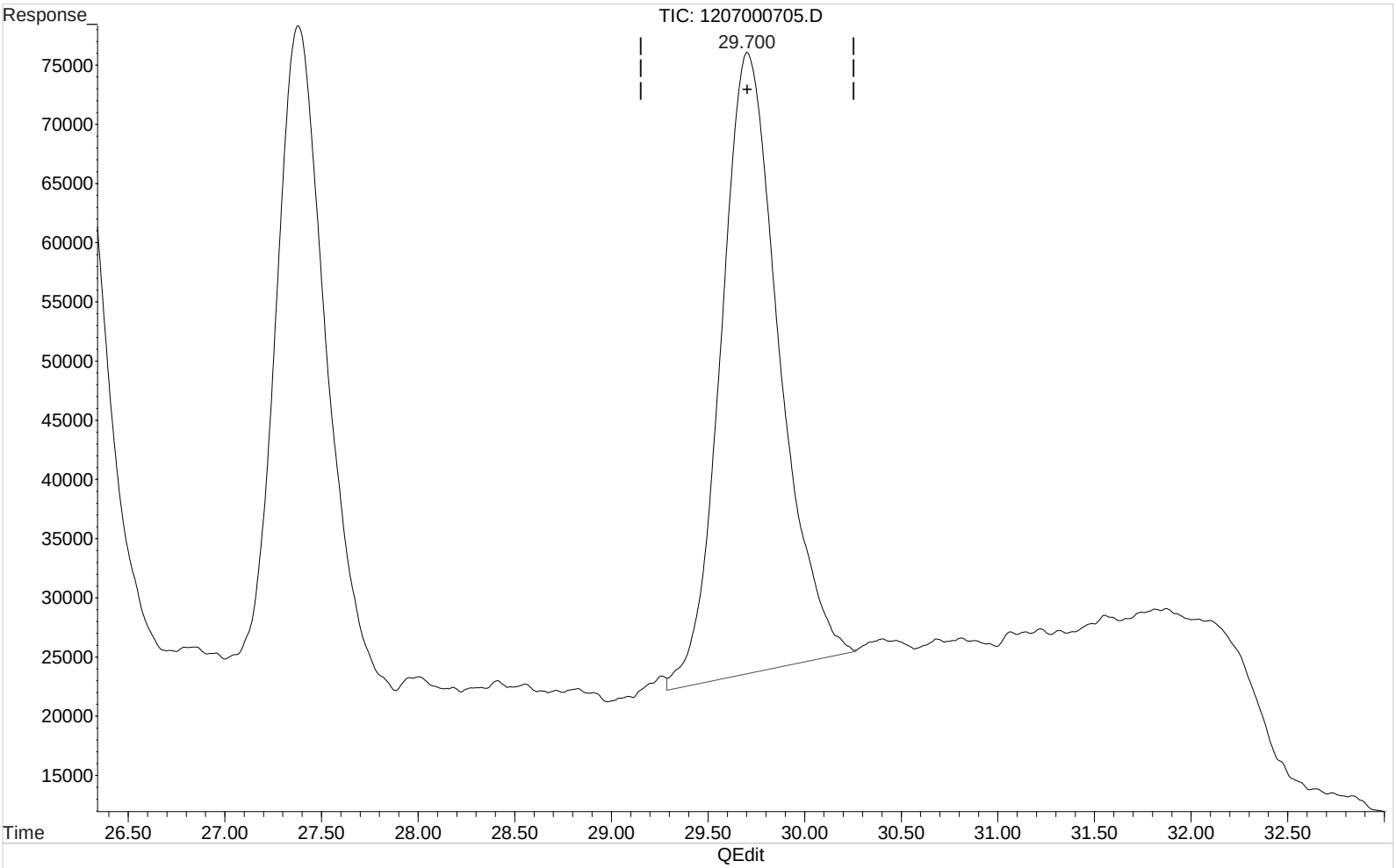
(+) = Expected Retention Time

(b) (6)
1st [redacted] 12/08/16
2n [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(18) 1-Chloro-3-Nitrobenzene (S)

29.700min 47.809 ug/L m

response 1102787

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

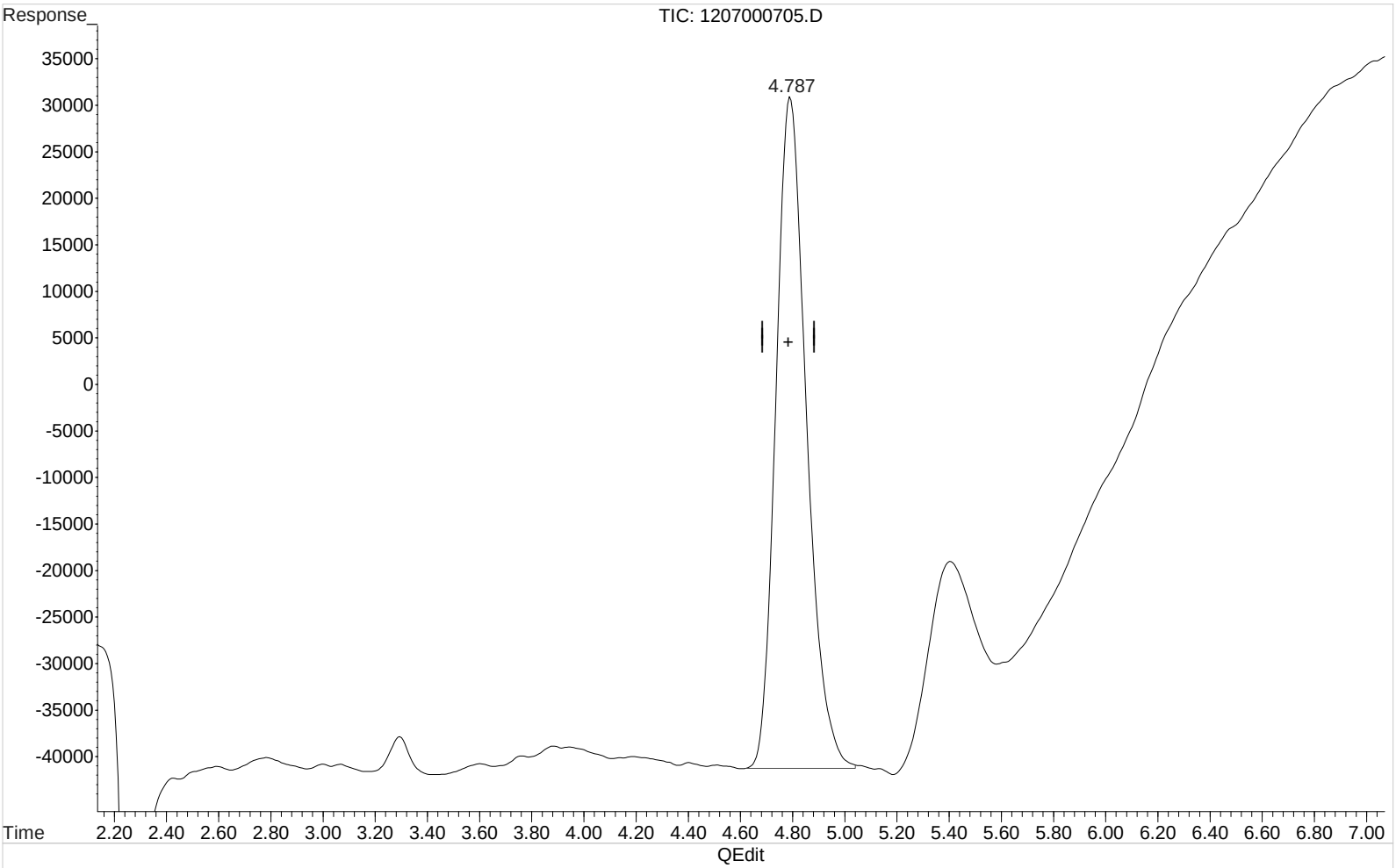
Quantitation Report (Qedit)

1st (b) (6) 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(2) HMX (T)

4.787min 50.576 ug/L

response 588444

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b)(6)

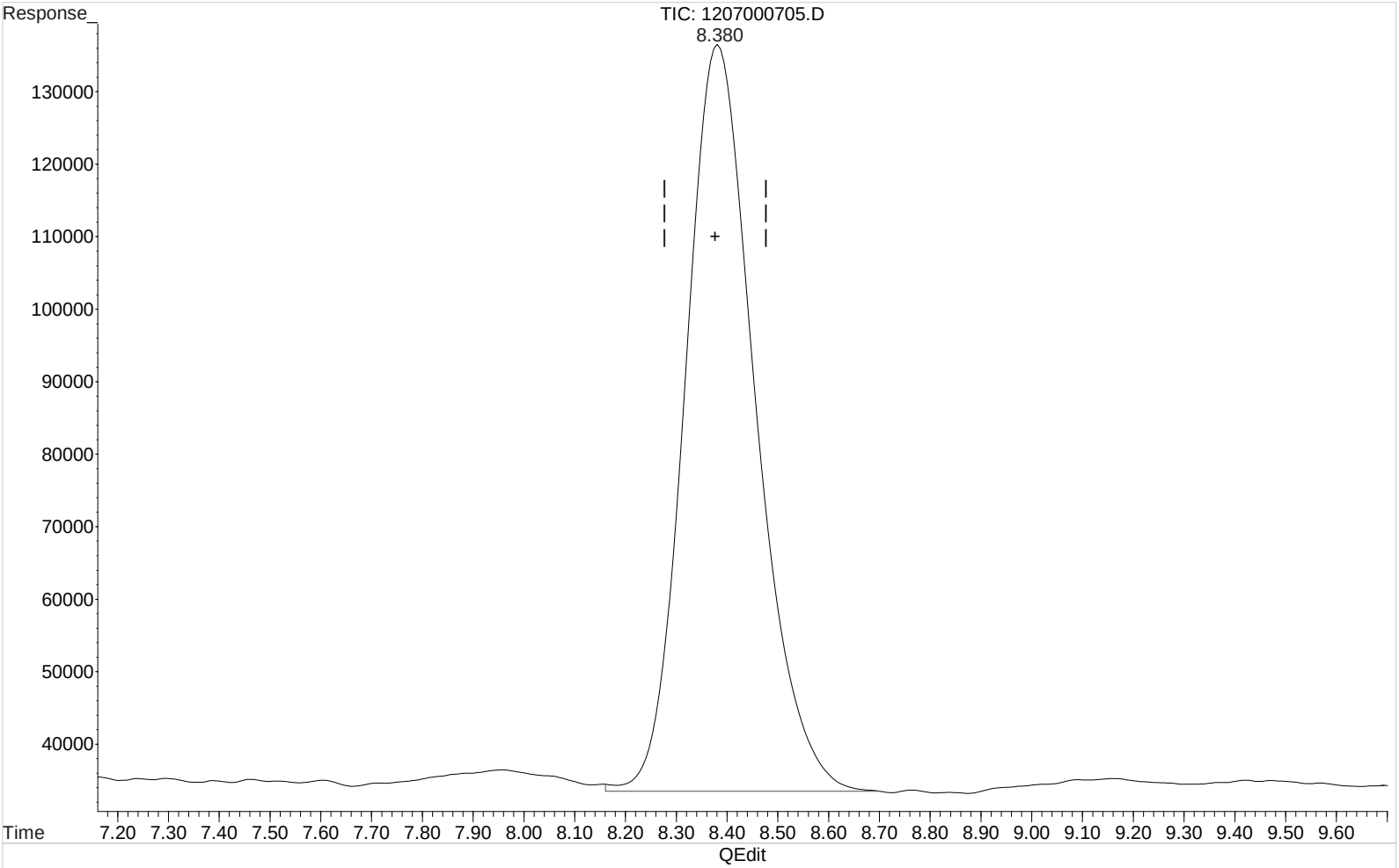
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(4) RDX (T)

8.380min 47.162 ug/L

response 991175

Manual Integration:

Before

12/08/16

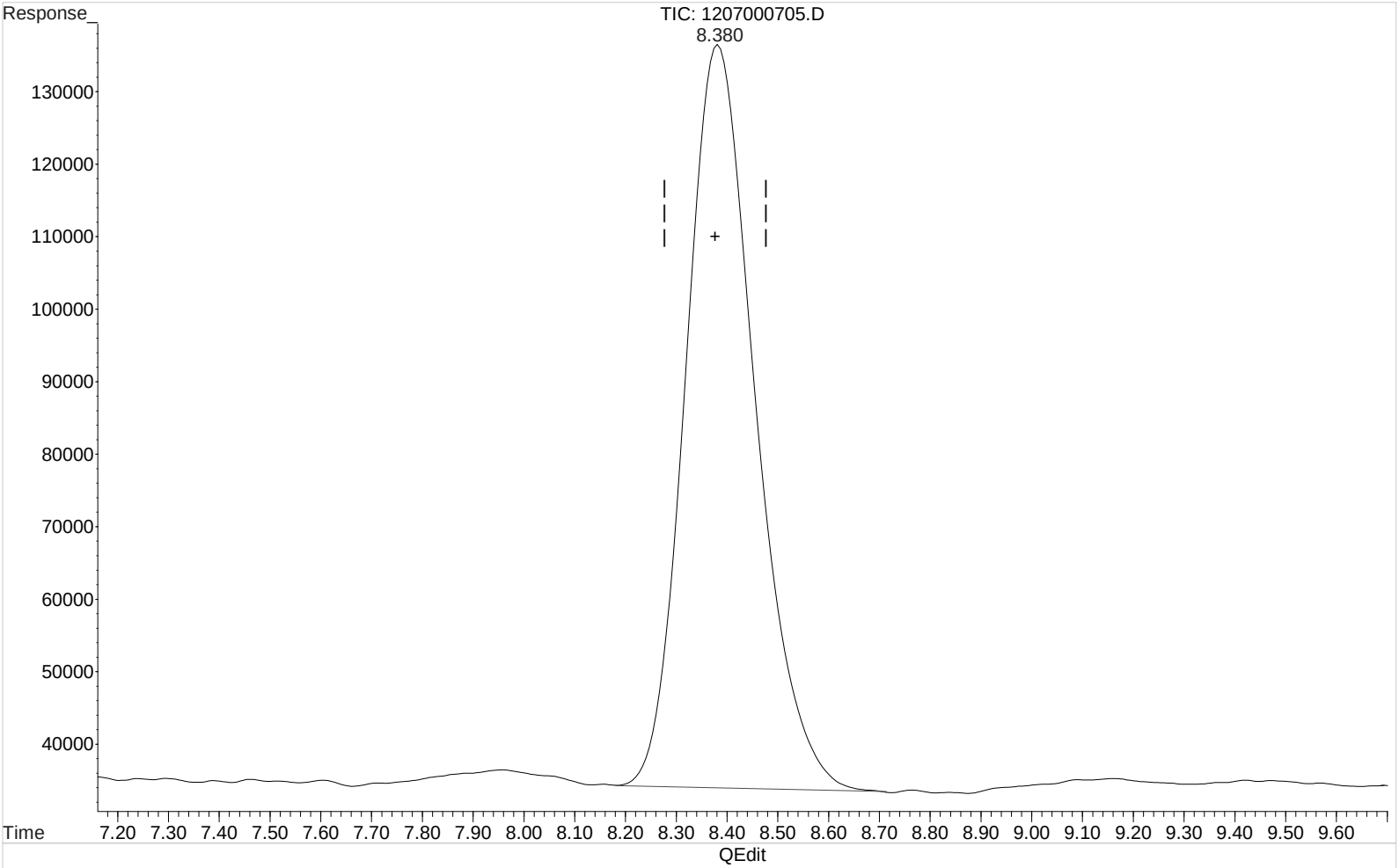
(+) = Expected Retention Time

1st (b) (6) 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(4) RDX (T)

8.380min 46.580 ug/L m

response 978940

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

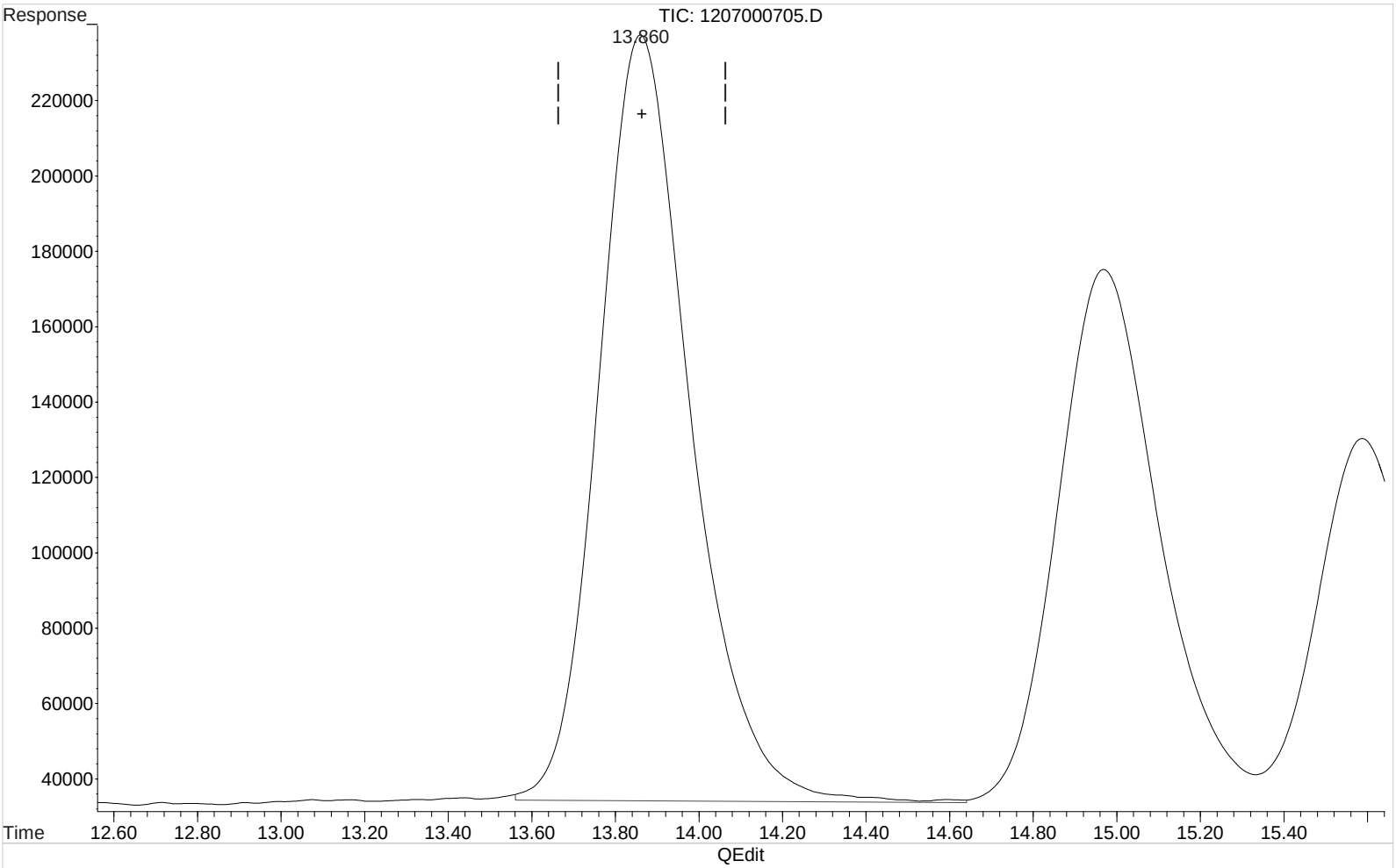
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(6) 1,3-DNB (T)

13.860min 49.138 ug/L

response 3091980

Manual Integration:

Before

12/08/16

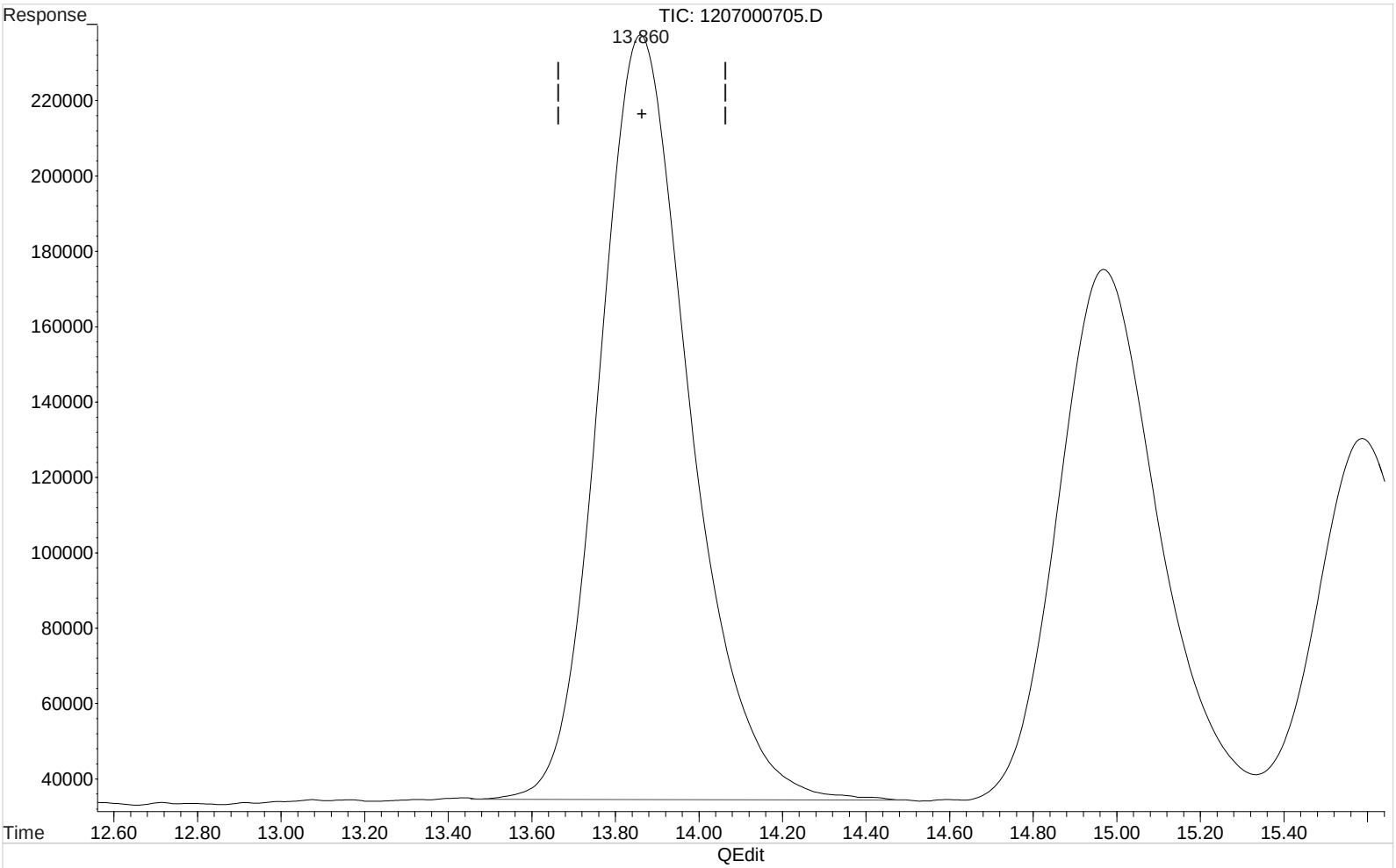
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(6) 1,3-DNB (T)

13.860min 48.773 ug/L m

response 3069012

Manual Integration:

After

BLC

12/08/16

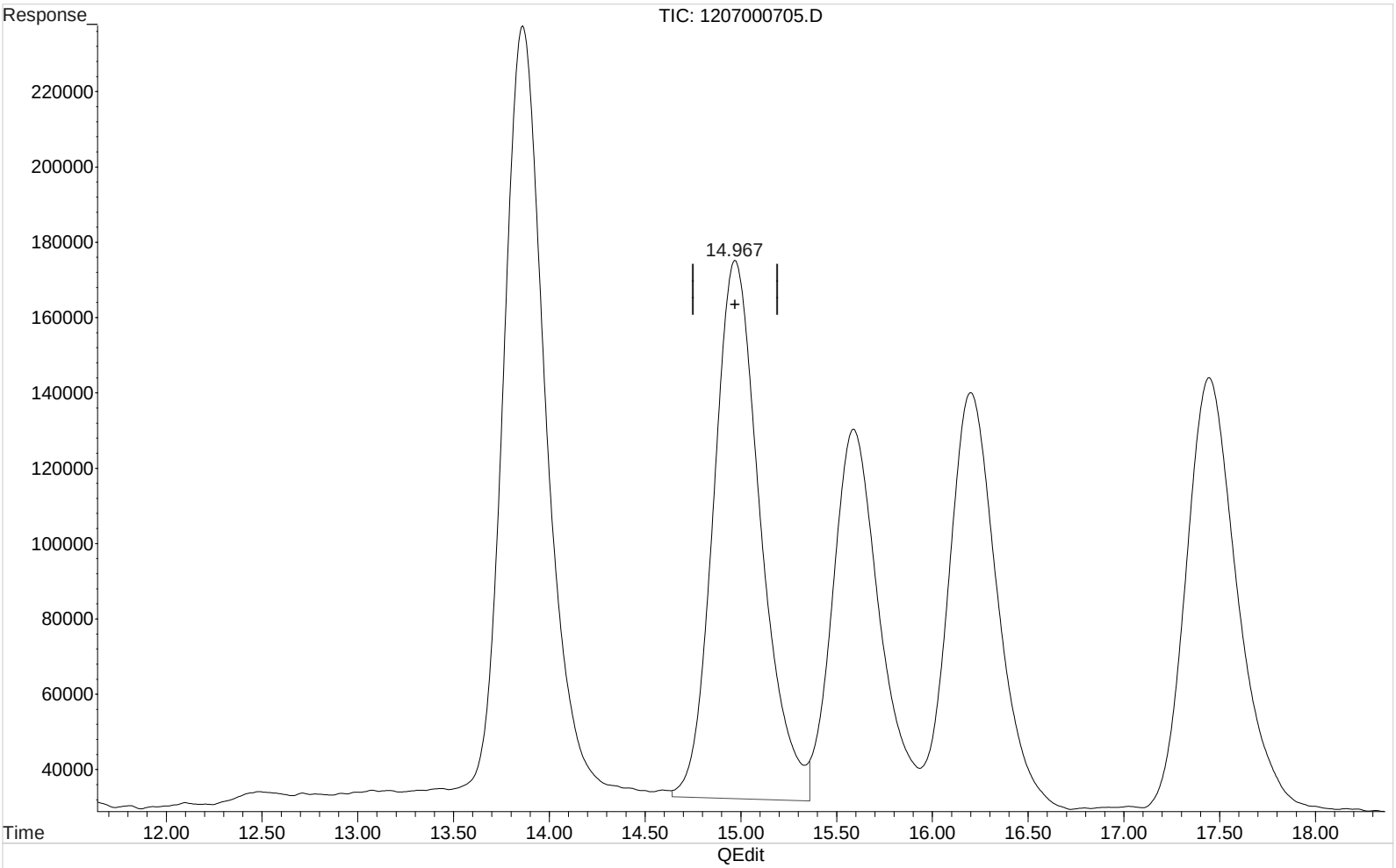
(+) = Expected Retention Time

(b)
1st (6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(7) 3,5-Dinitroaniline (T)

14.967min 50.232 ug/L

response 2450718

Manual Integration:

Before

12/08/16

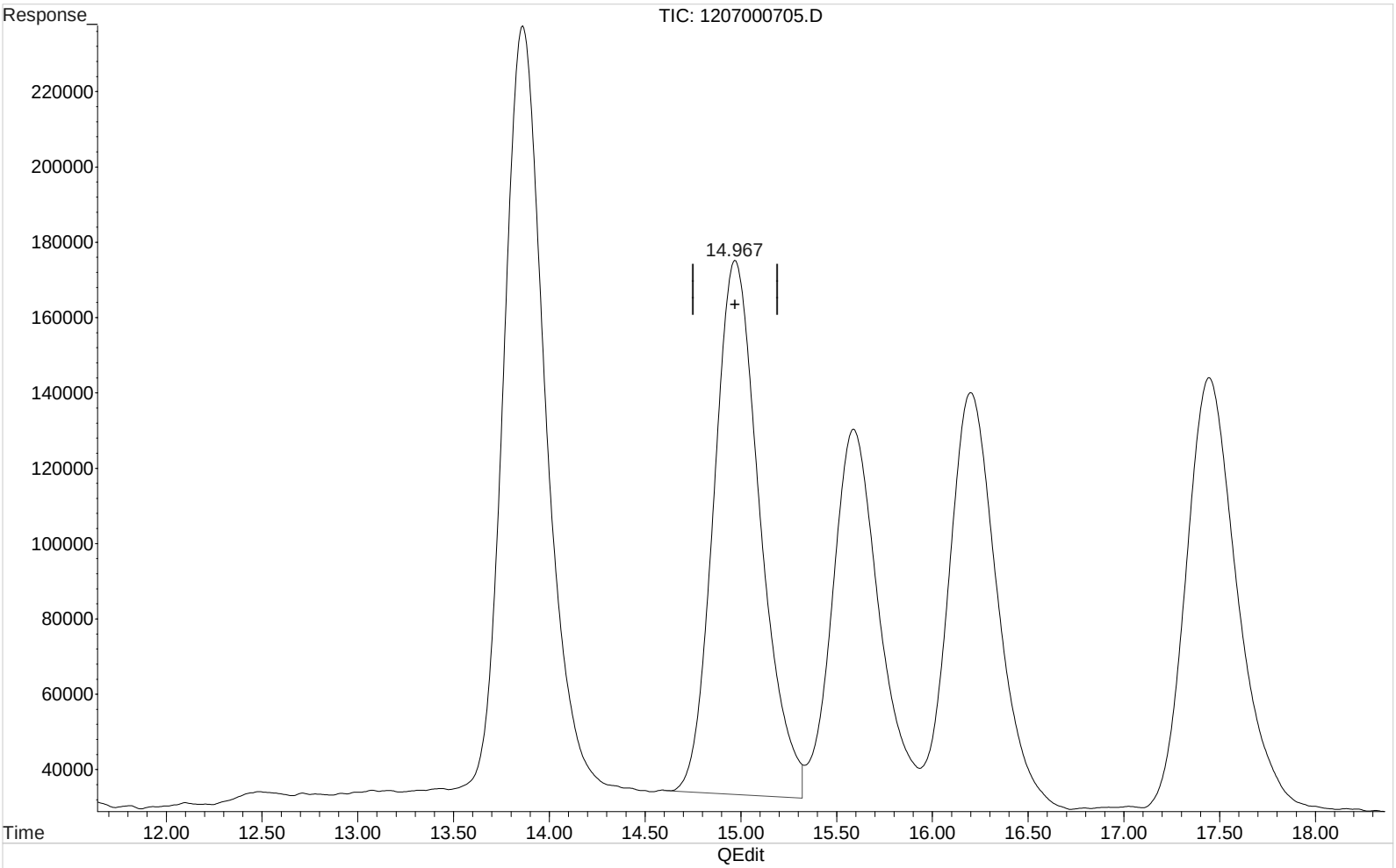
(+) = Expected Retention Time

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.967min 48.826 ug/L m

response 2382128

Manual Integration:

After

BLC

12/08/16

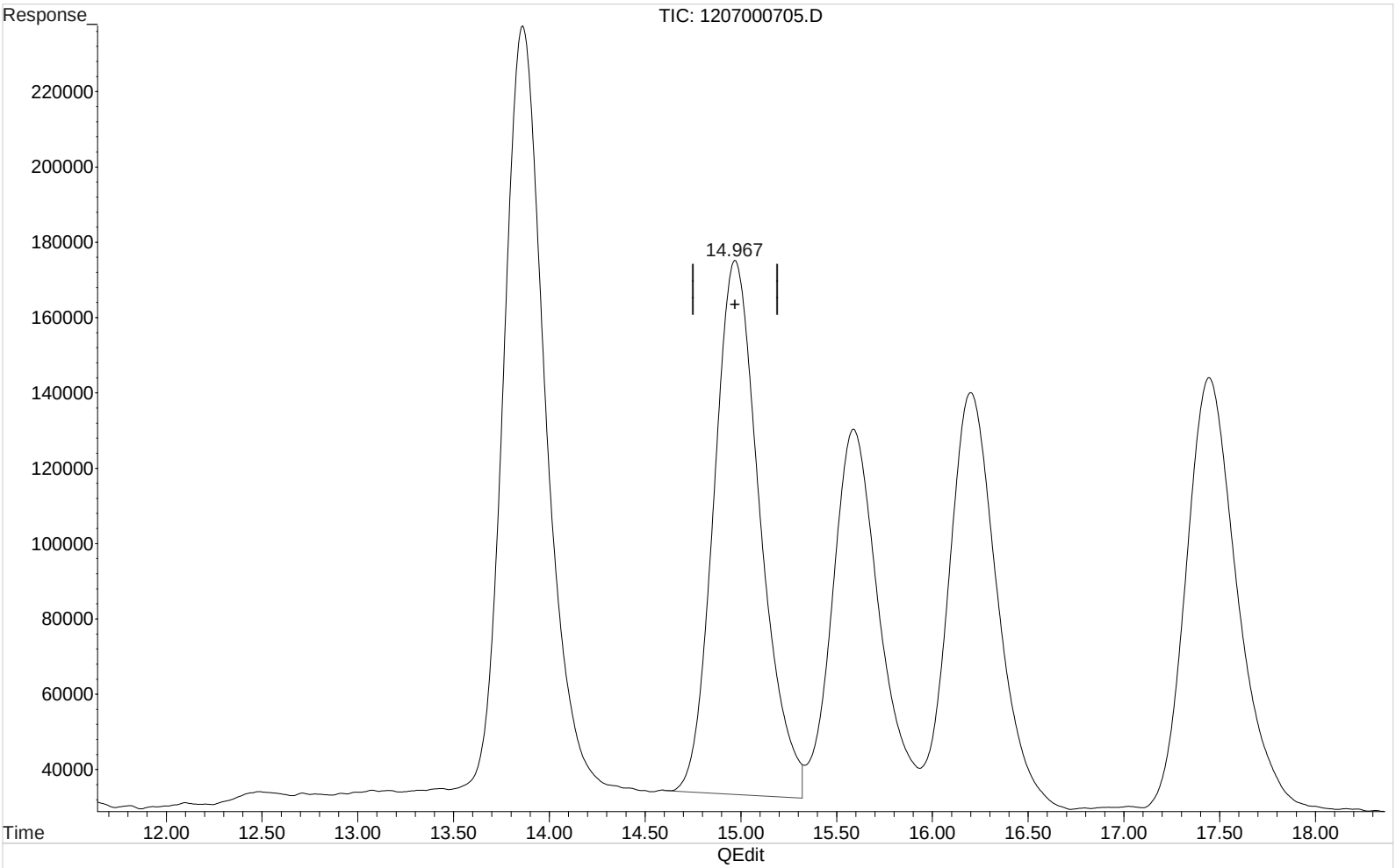
(+) = Expected Retention Time

1st (b)(6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.967min 48.826 ug/L m

response 2382128

Manual Integration:

After

NO BEFORE, ACCIDENTAL INT

12/08/16

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

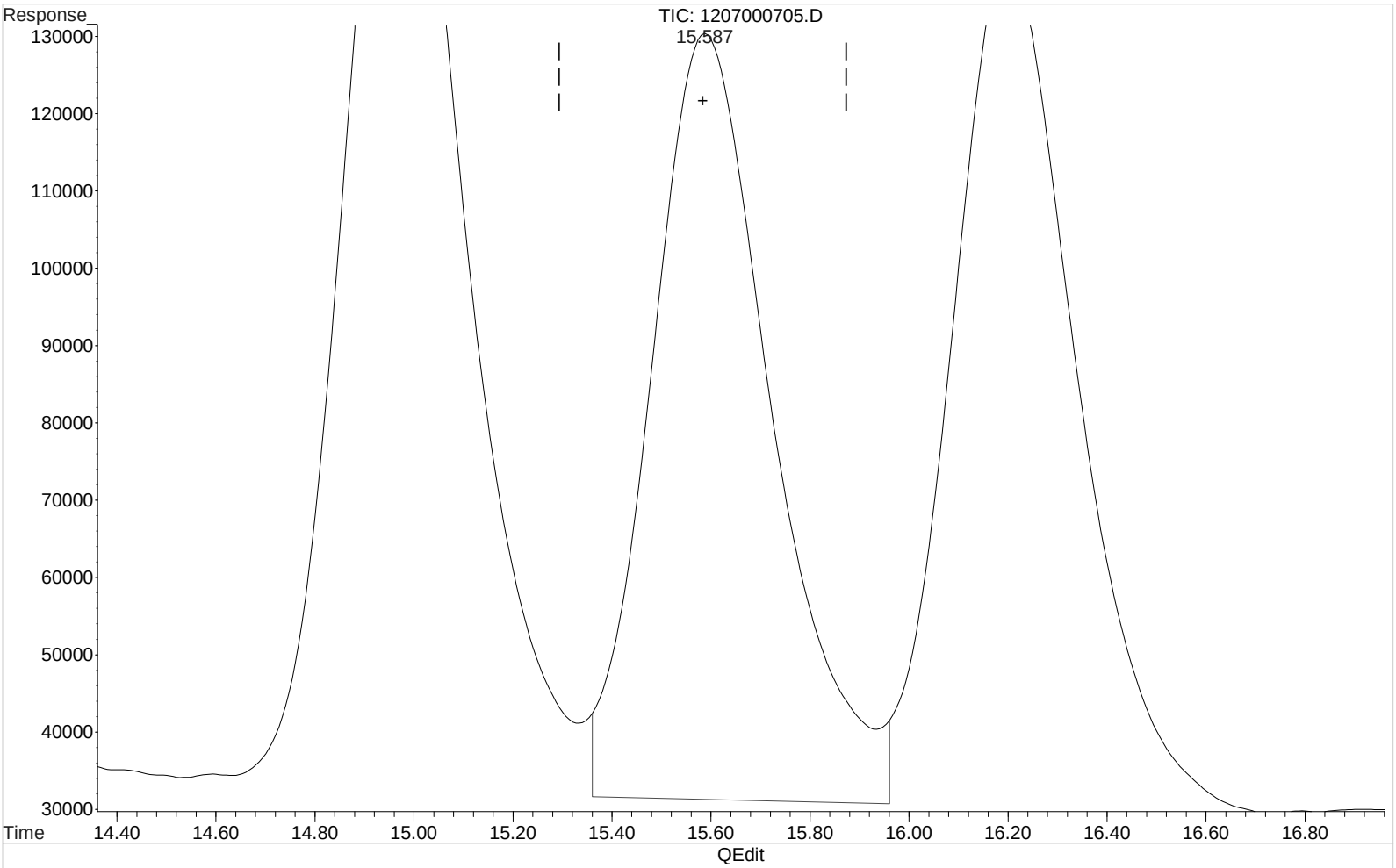
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.587min 49.926 ug/L

response 1682029

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

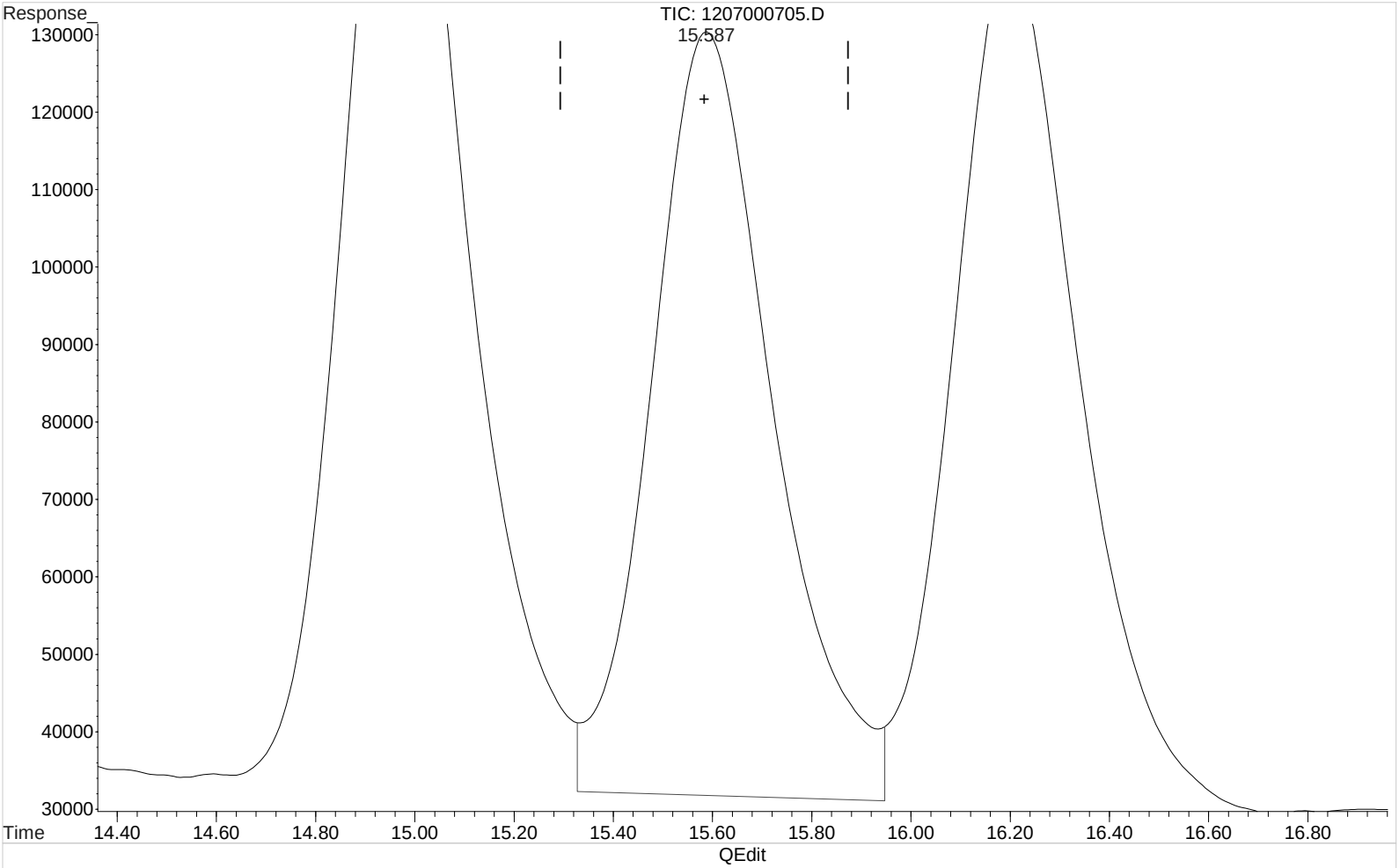
Quantitation Report (Qedit)

1st (b)(6) 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.587min 49.760 ug/L m

response 1676426

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

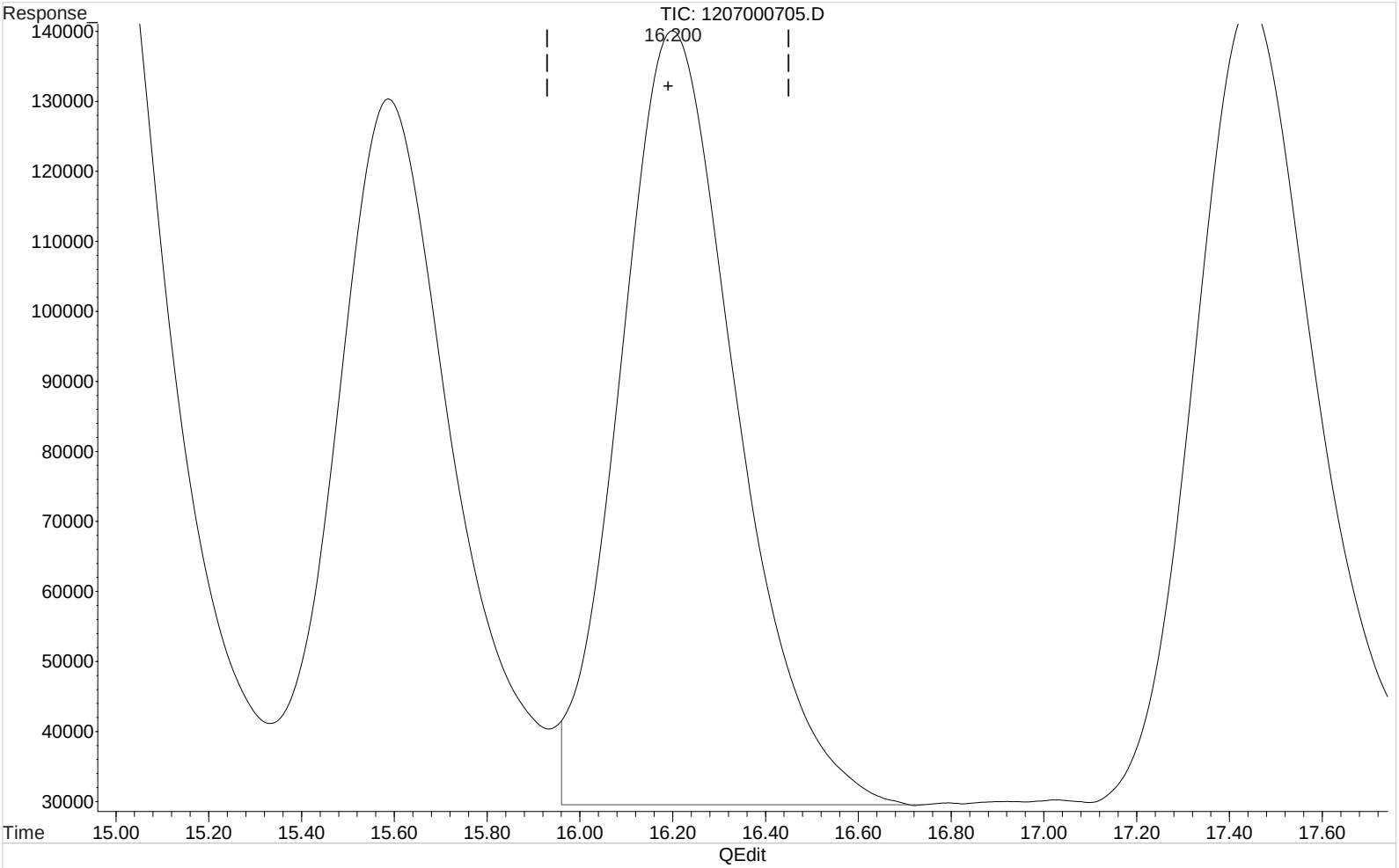
Quantitation Report (Qedit)

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.200min 48.909 ug/L

response 1926694

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

Quantitation Report (Qedit)

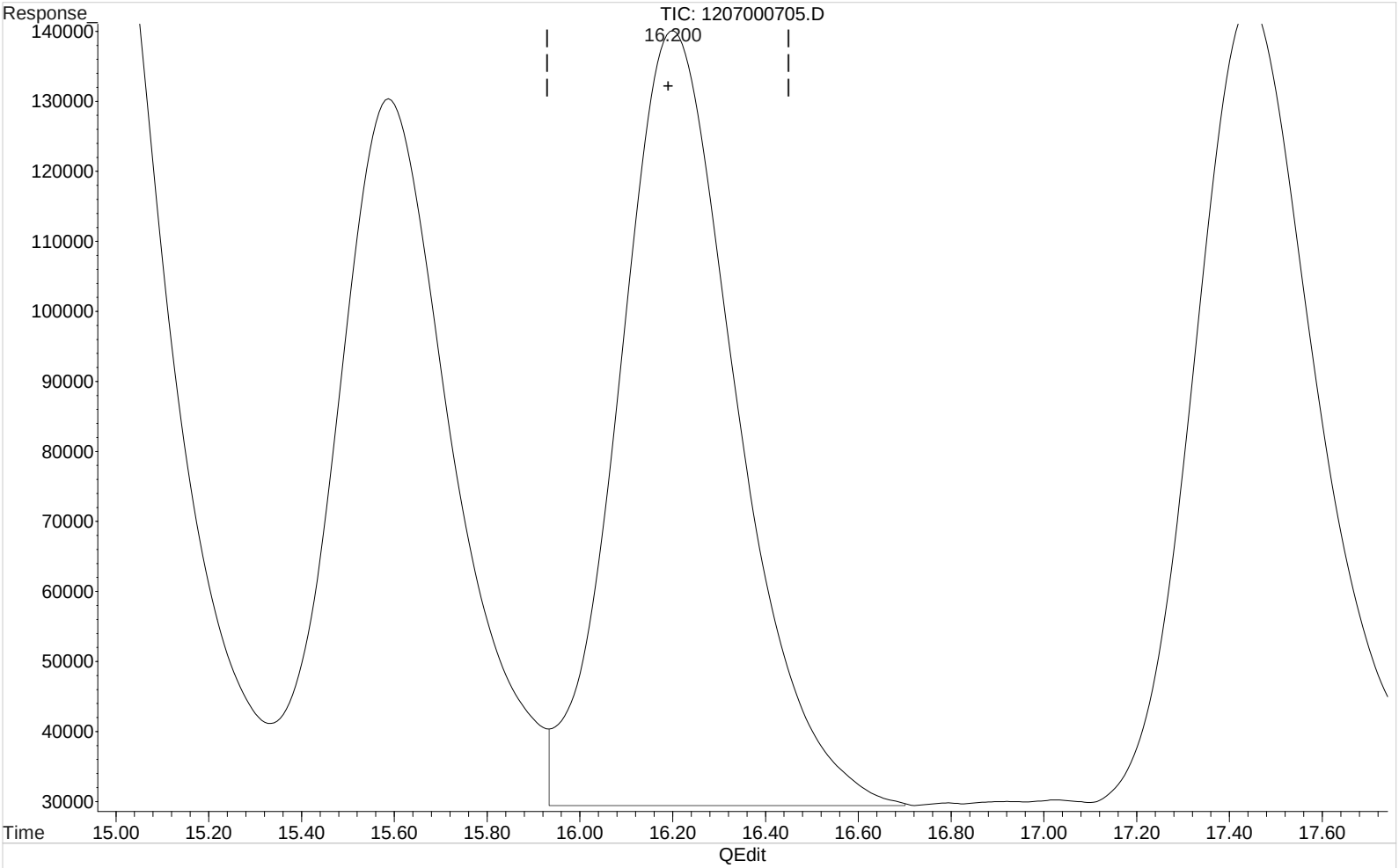
(b)(6)

1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.200min 49.519 ug/L m

response 1950750

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

1st (b)(6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:06:56 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
18)	S	1-Chloro-3-Nitrobenzene	29.688	2222660	98.517	ug/L	m
		Target Compounds					
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	4.788	1216166	103.579	ug/L	
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	8.381	1985238	97.807	ug/L	m
5)	T	1,3,5-TNB	10.521	4433120	97.549	ug/L	m
6)	T	1,3-DNB	13.861	5956080	95.830	ug/L	
7)	T	3,5-Dinitroaniline	14.975	4770181	98.935	ug/L	m
8)	T	Tetryl	15.588	3353341	99.774	ug/L	m
9)	T	Nitrobenzene	16.201	3828698	97.660	ug/L	m
10)	T	2,4,6-TNT	17.441	4139905	101.107	ug/L	
11)	T	4-Amino-2,6-DNT	19.215	2969829	103.131	ug/L	m
12)	T	2-Amino-4,6-DNT	20.048	4166626	93.333	ug/L	
13)	T	2,6-DNT	21.748	2380424	NoCal	ug/L	m
14)	T	2,4-DNT	22.201	5893843	101.023	ug/L	m
15)	T	2-NT	25.321	1803120	100.899	ug/L	
16)	T	4-NT	26.241	1643208	102.283	ug/L	m
17)	T	3-NT	27.361	2049432	101.964	ug/L	m

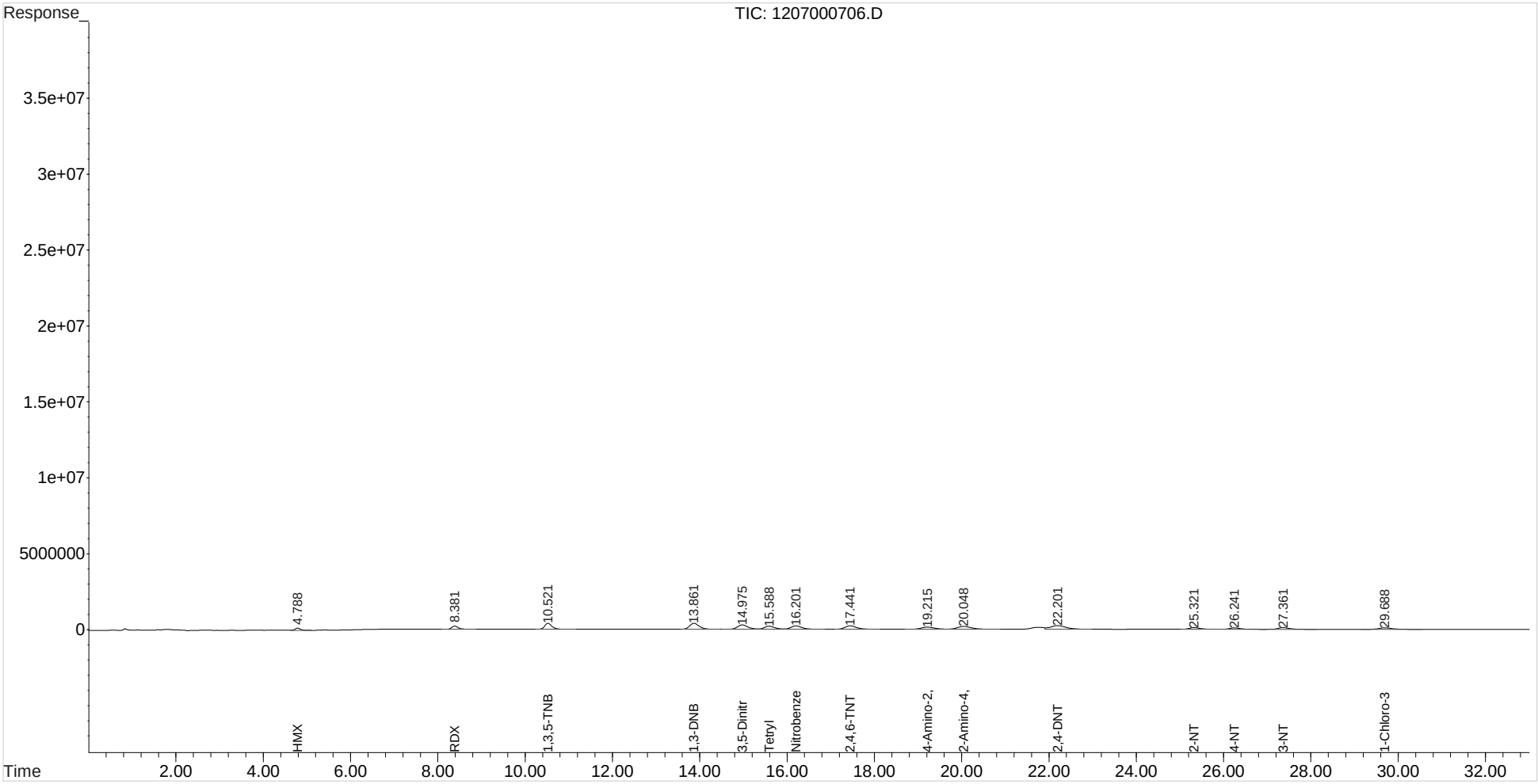
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:06:56 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



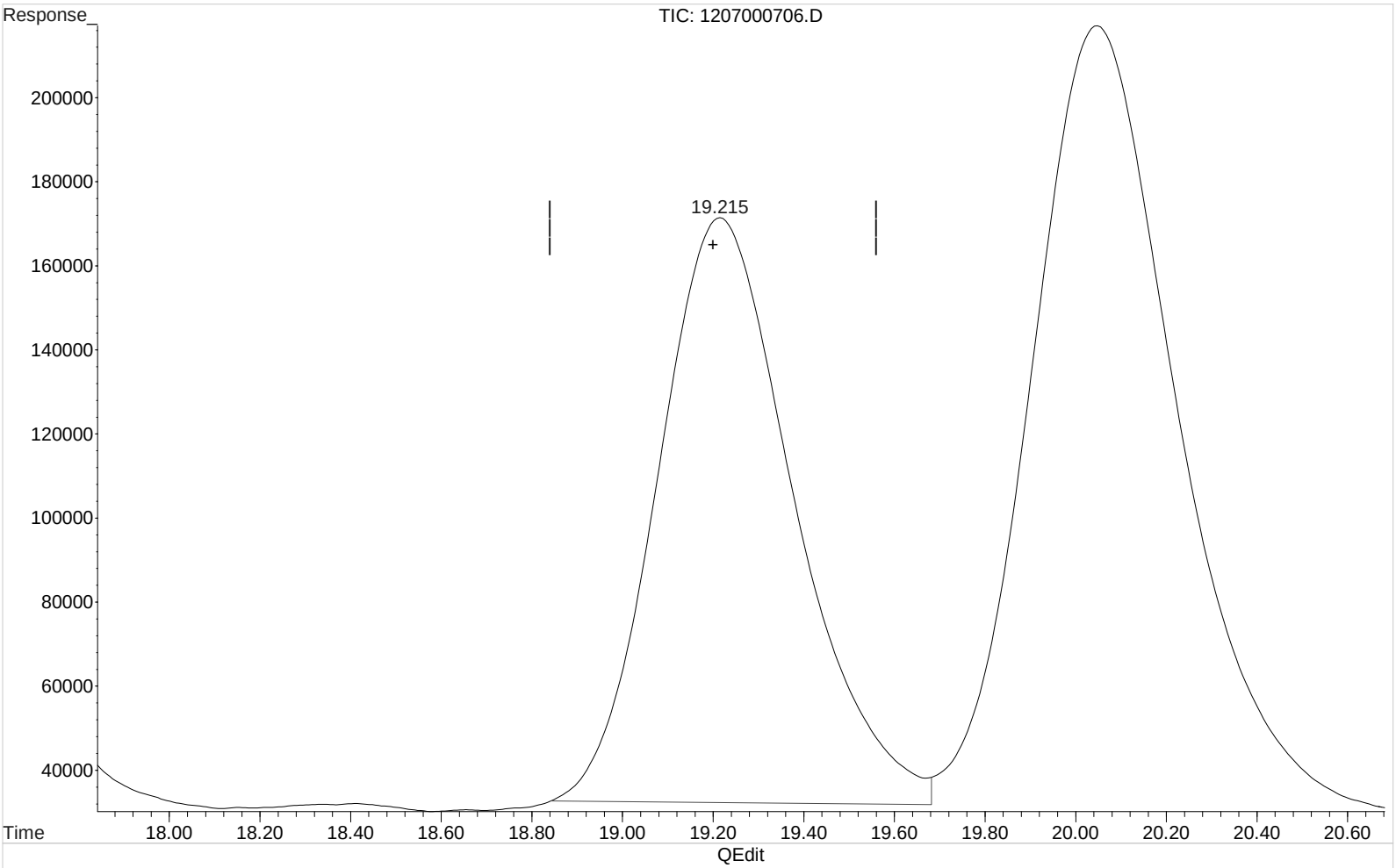
Quantitation Report (Qedit)

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(11) 4-Amino-2,6-DNT (T)

19.215min 100.578 ug/L

response 2896316

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

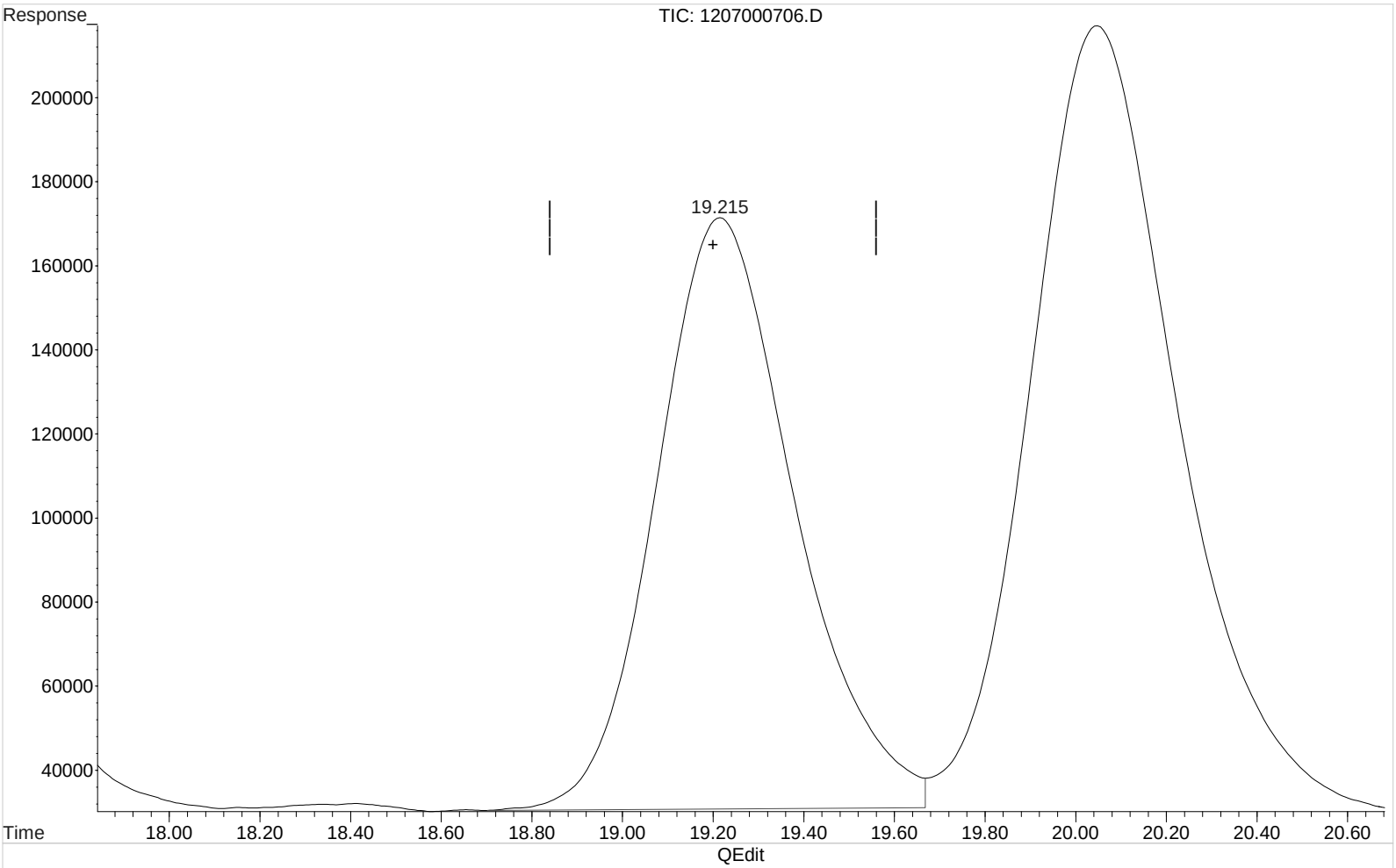
Quantitation Report (Qedit)

(b) (6)
1st [redacted] 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(11) 4-Amino-2,6-DNT (T)

19.215min 103.131 ug/L m

response 2969829

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b)(6)

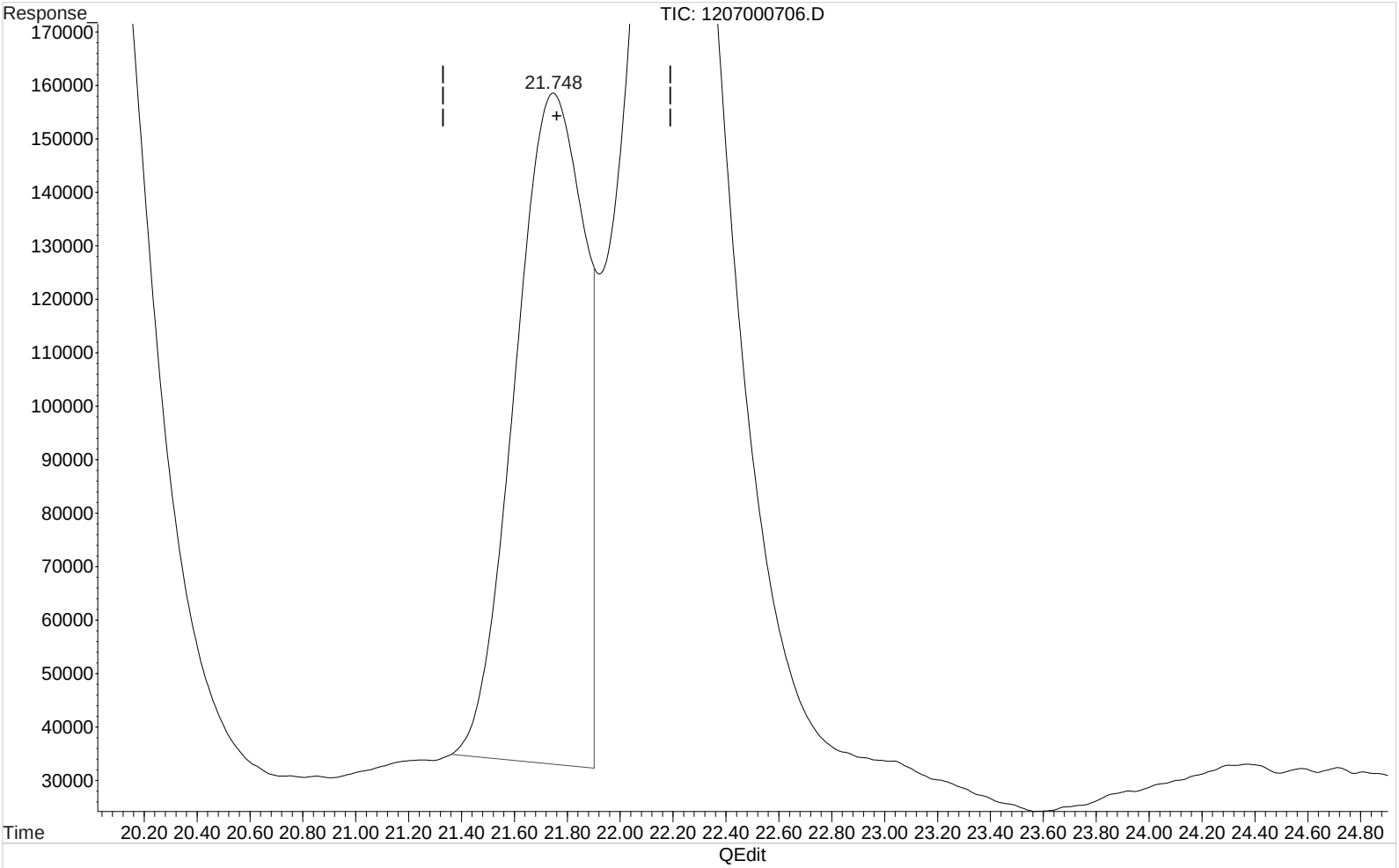
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.748min 0.000 ug/L

response 2294444

Manual Integration:

Before

12/08/16

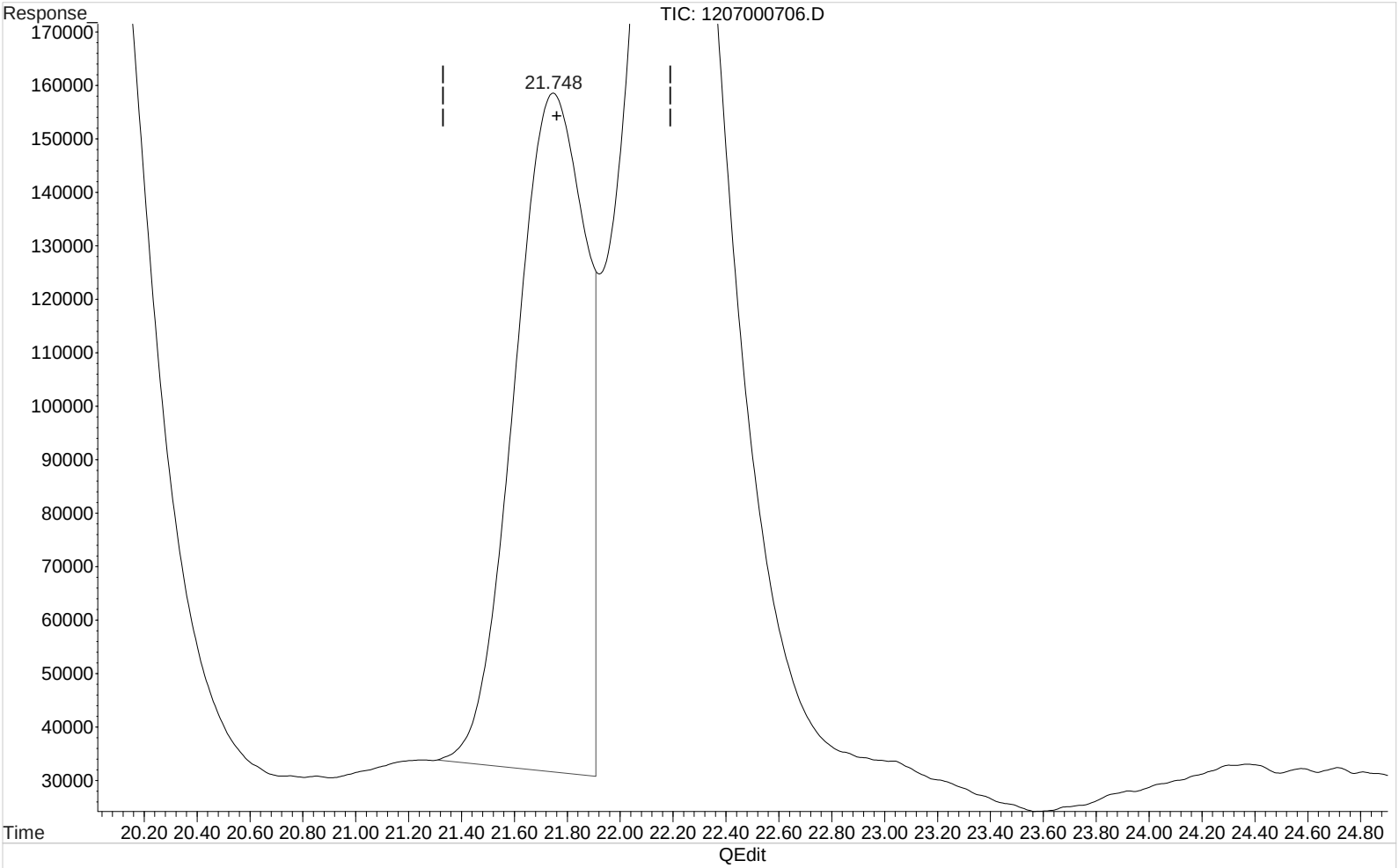
(+) = Expected Retention Time

(b)(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.748min 0.000 ug/L m

response 2380424

Manual Integration:

After

BLC

12/08/16

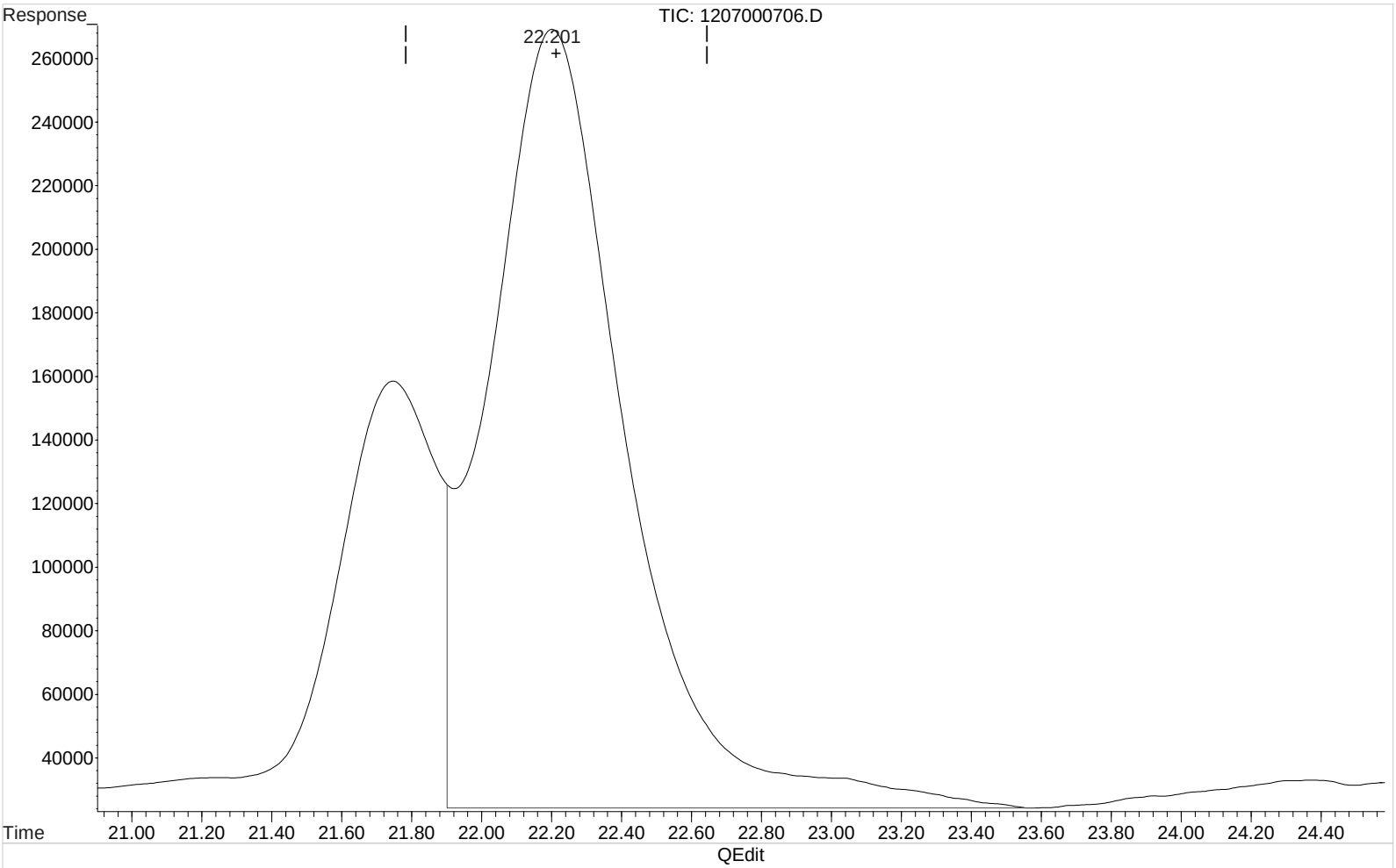
(+) = Expected Retention Time

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.201min 114.241 ug/L

response 6665030

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

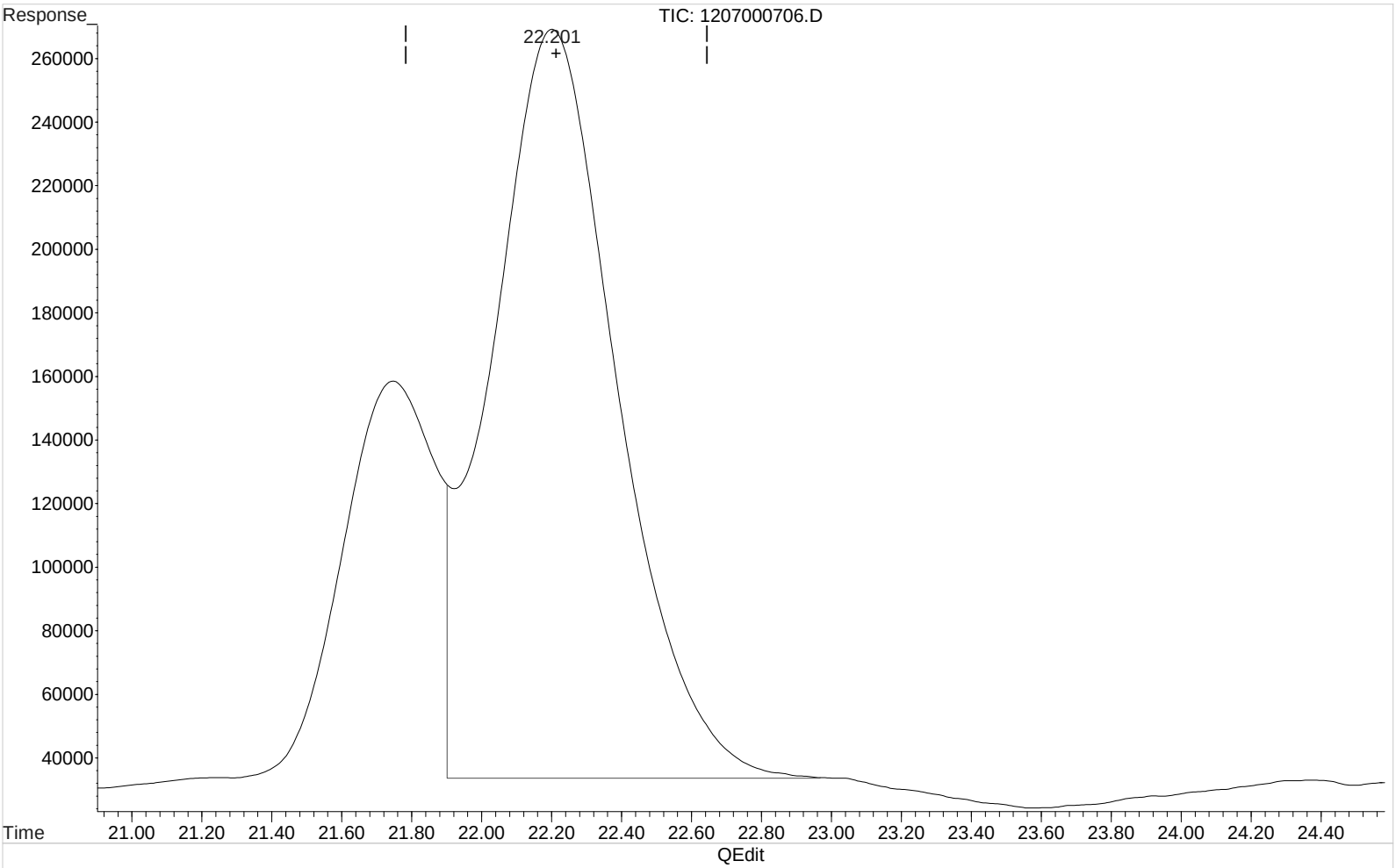
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.201min 101.023 ug/L m

response 5893843

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

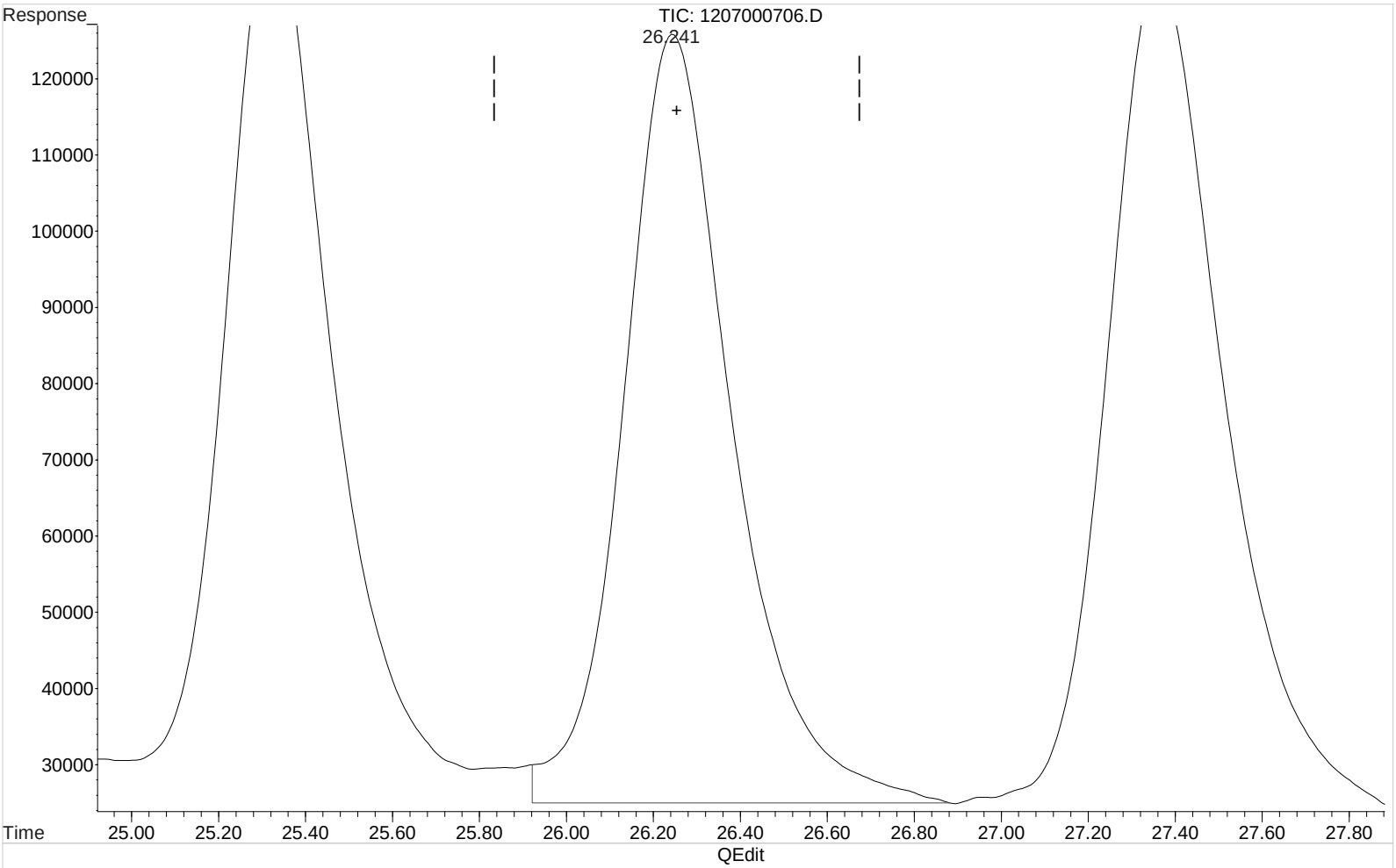
Quantitation Report (Qedit)

1st (b) (6) 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.241min 109.482 ug/L

response 1758863

Manual Integration:

Before

12/08/16

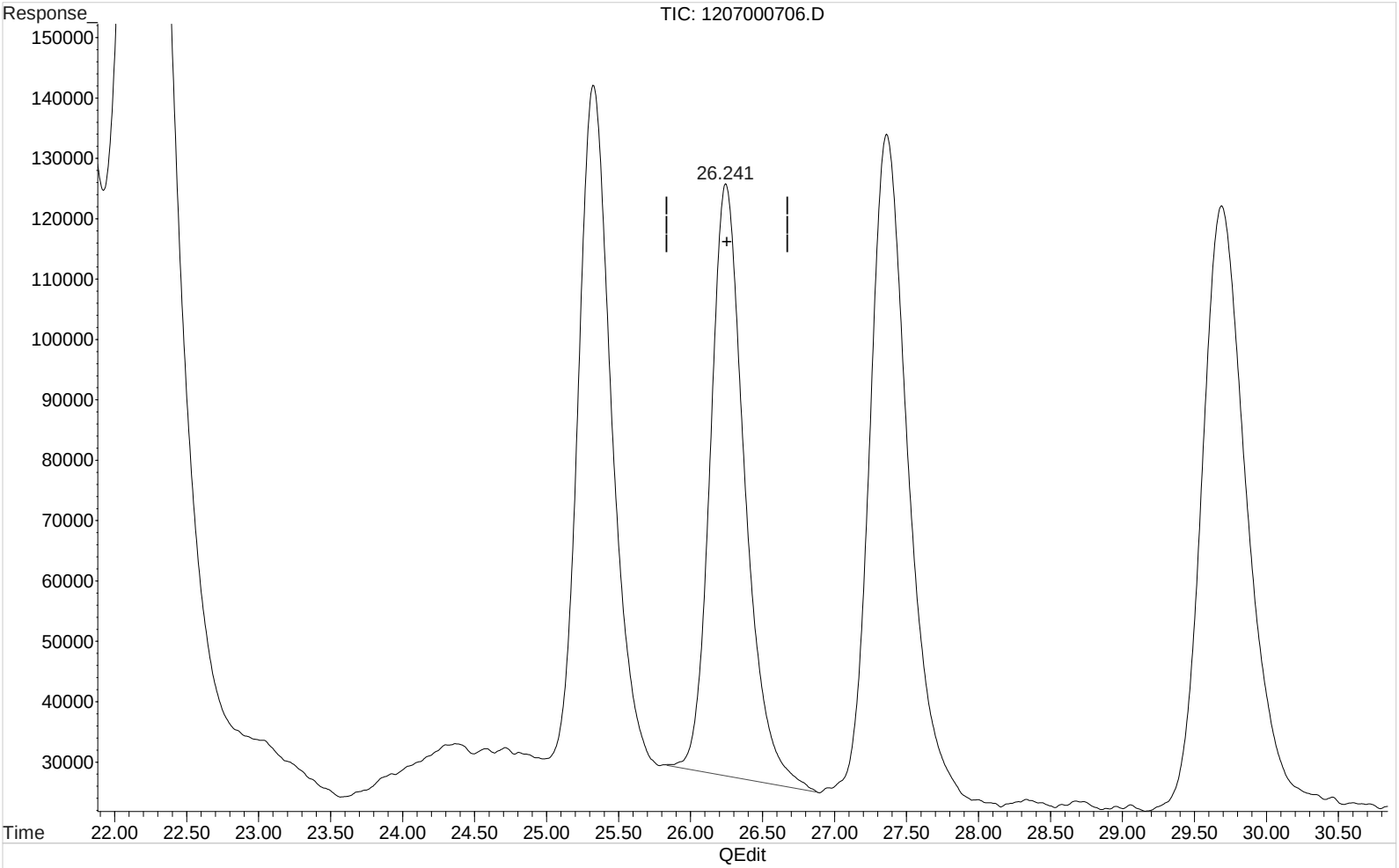
(+) = Expected Retention Time

1st (b) (6) 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.241min 102.283 ug/L m

response 1643208

Manual Integration:

After

BLC

12/08/16

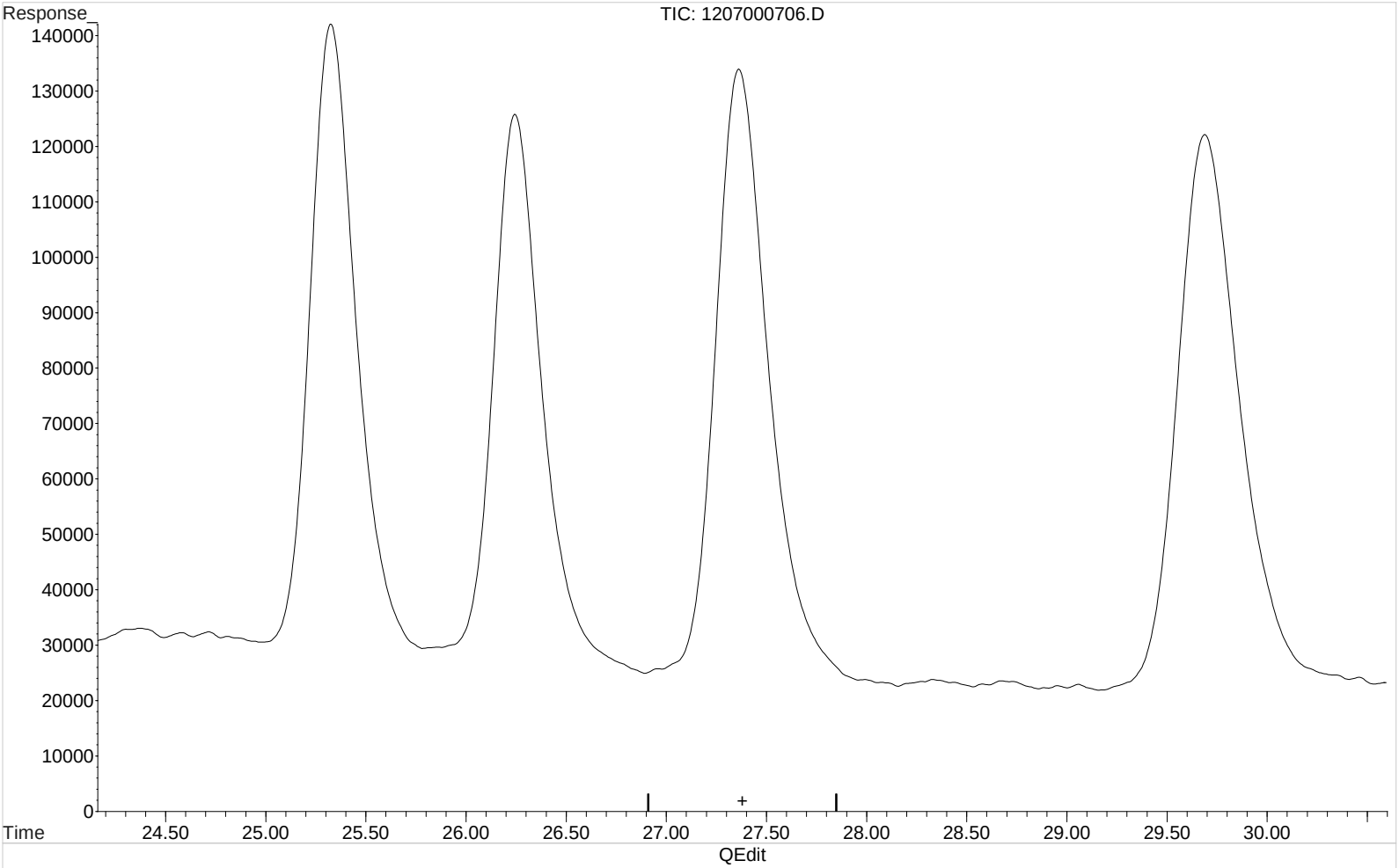
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

0.000min 0.000 ug/L d

response 0

Manual Integration:

Before

12/08/16

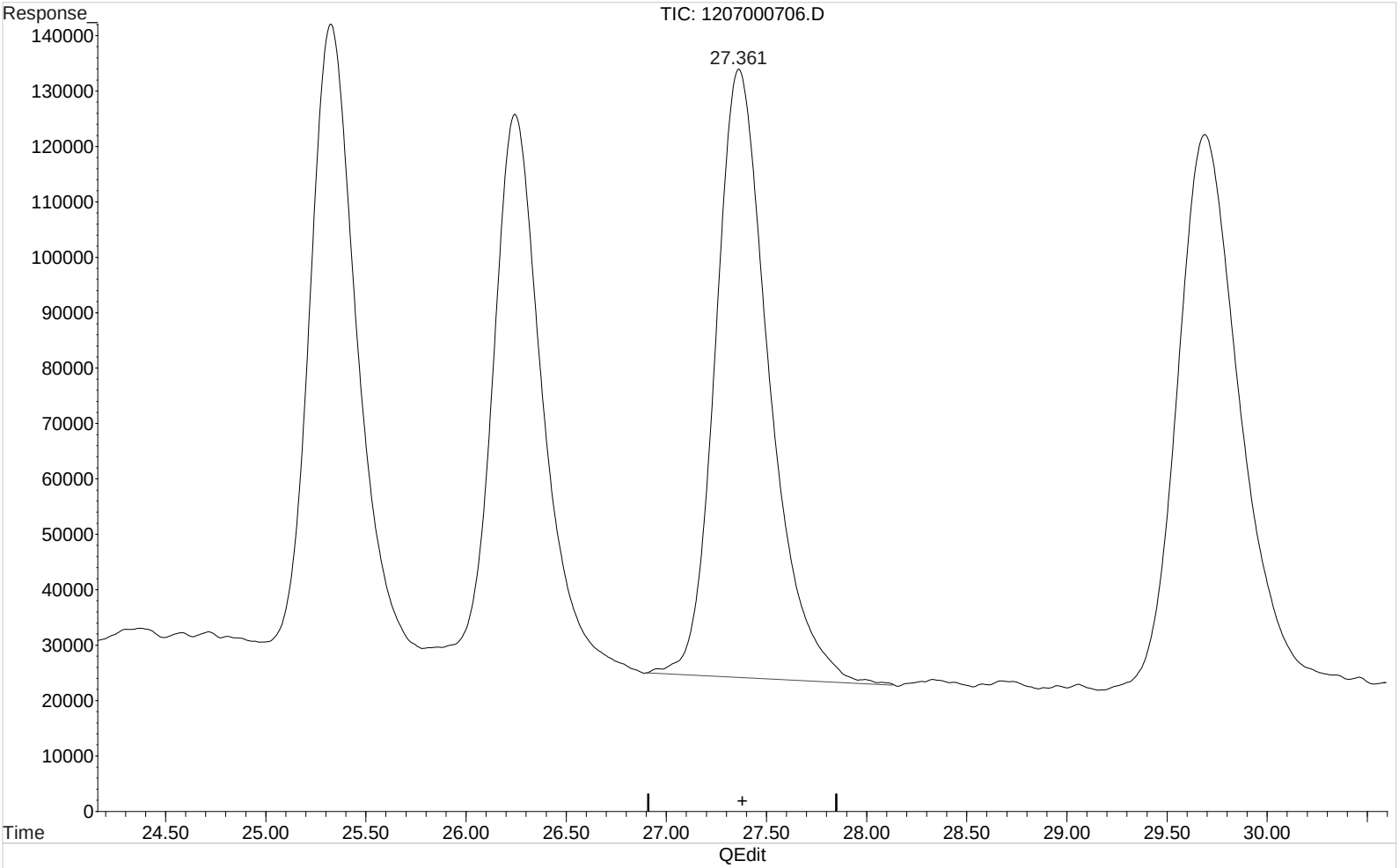
(+) = Expected Retention Time

1st (b) (6) 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.361min 101.964 ug/L m

response 2049432

Manual Integration:

After

Accidentally deleted, reintegrated

12/08/16

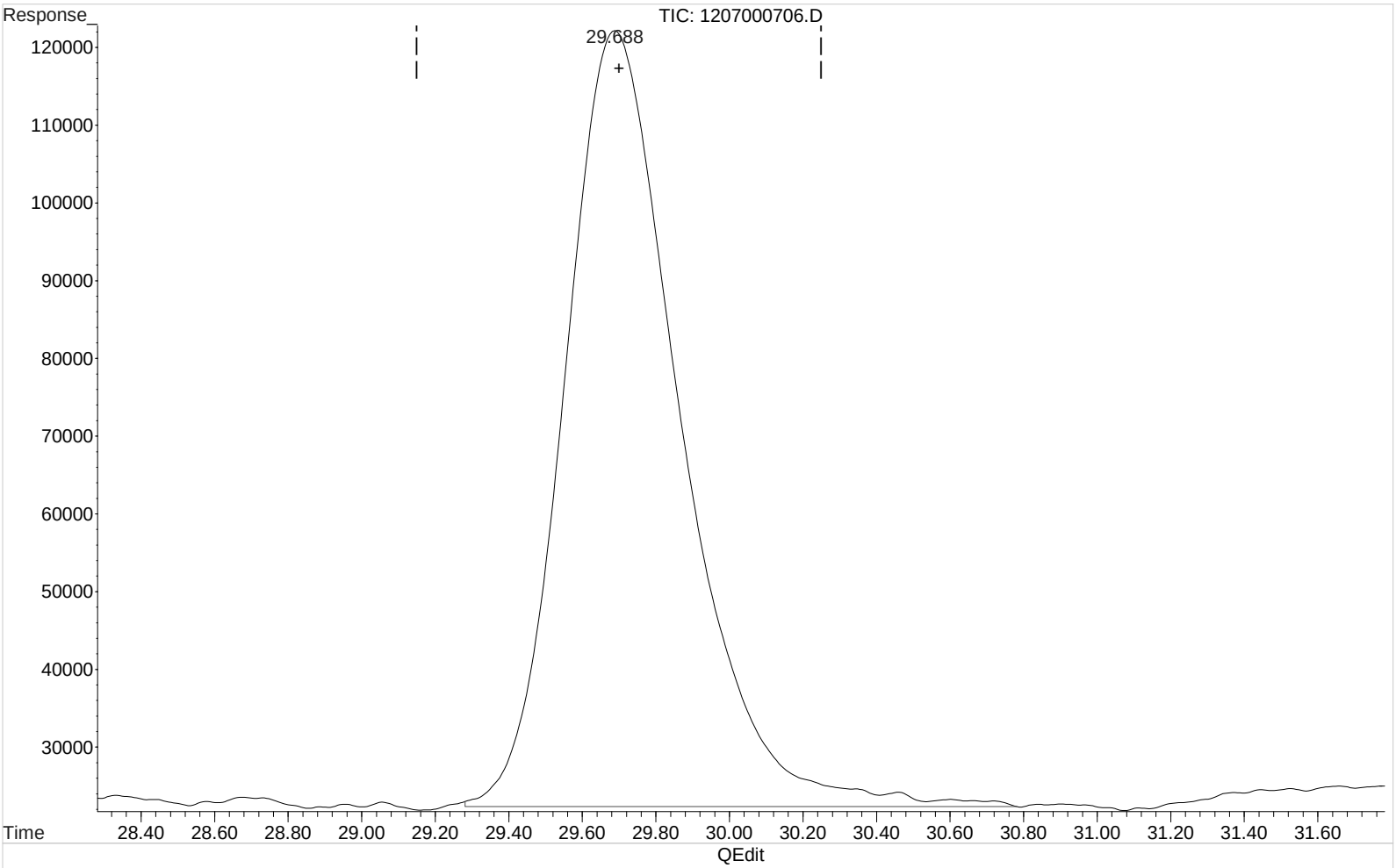
(+) = Expected Retention Time

1st (b)(6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(18) 1-Chloro-3-Nitrobenzene (S)

29.688min 97.323 ug/L

response 2195729

Manual Integration:

Before

12/08/16

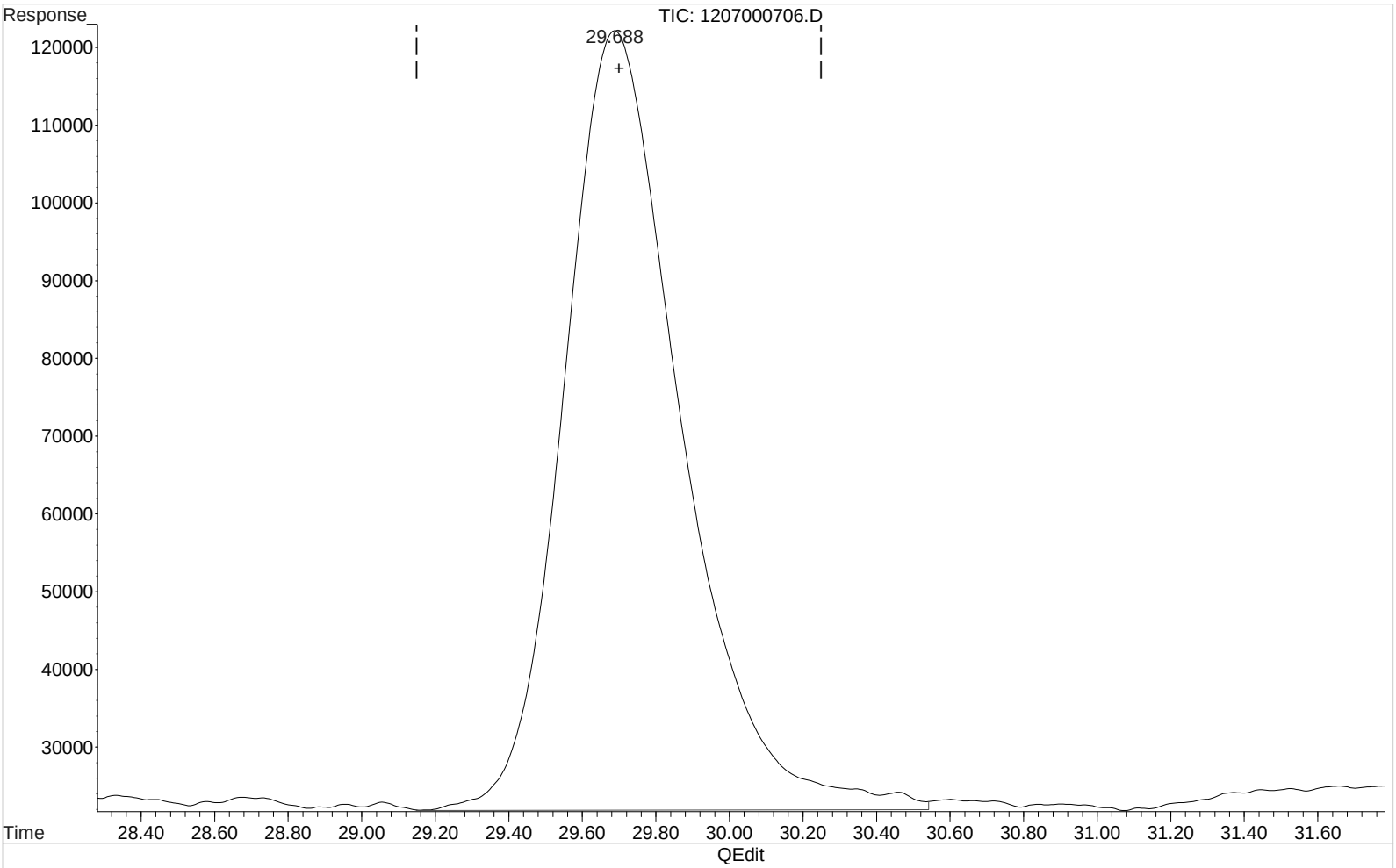
(+) = Expected Retention Time

(b) (6)
1st 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(18) 1-Chloro-3-Nitrobenzene (S)

29.688min 98.517 ug/L m

response 2222660

Manual Integration:

After

BLC

12/08/16

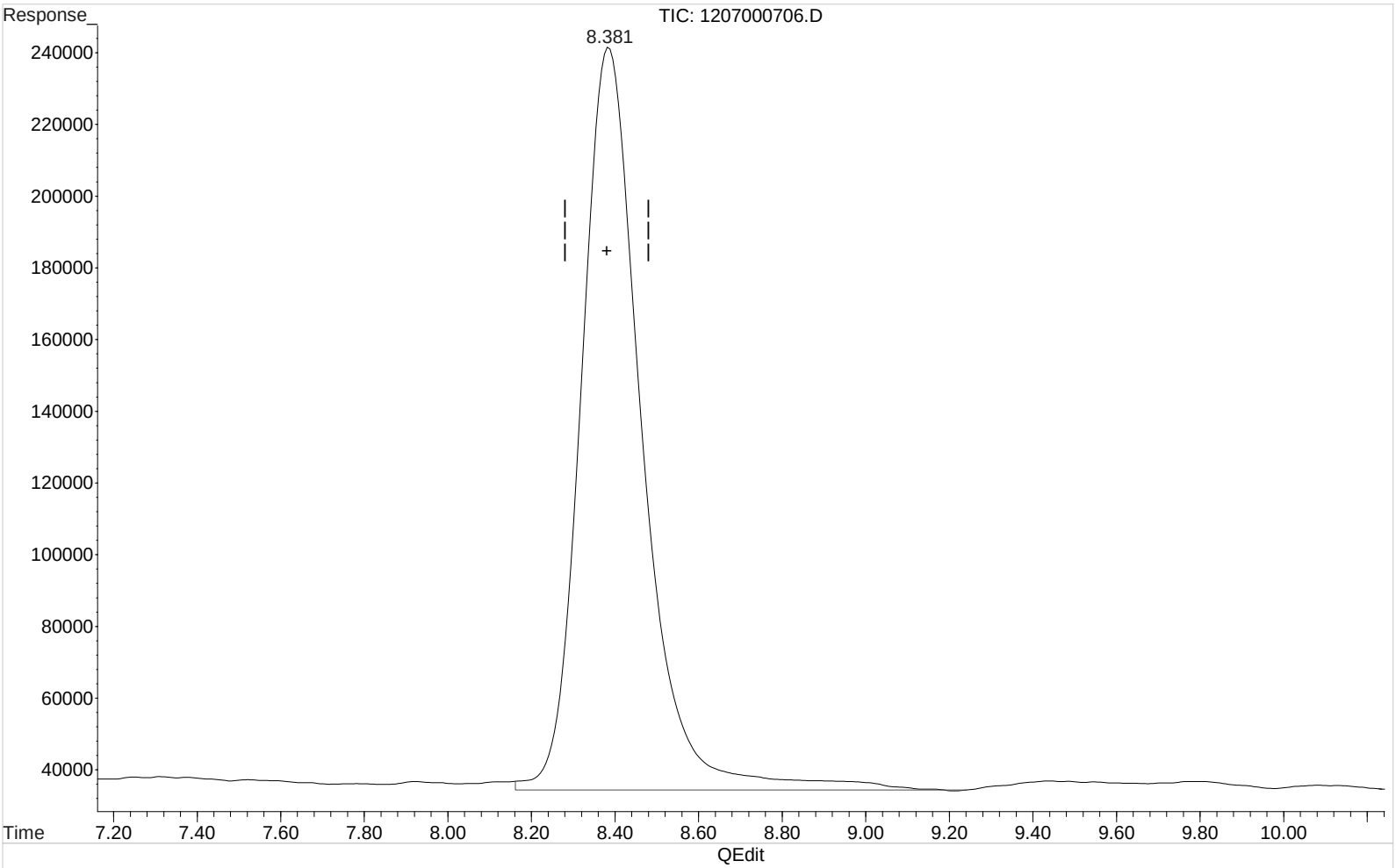
(+) = Expected Retention Time

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(4) RDX (T)

8.381min 104.100 ug/L

response 2112981

Manual Integration:

Before

12/08/16

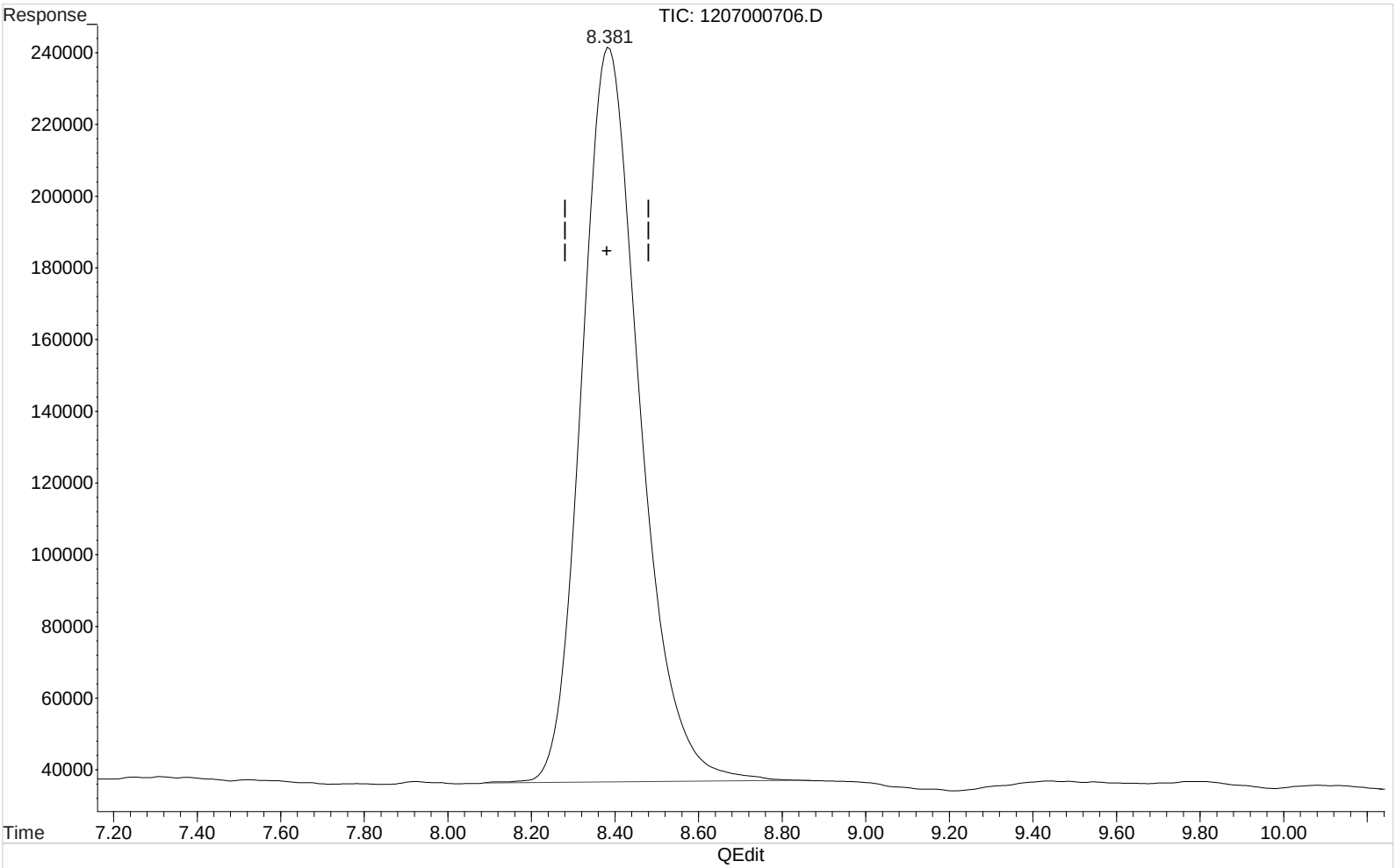
(+) = Expected Retention Time

1st (b)(6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(4) RDX (T)

8.381min 97.807 ug/L m

response 1985238

Manual Integration:

After

BLC

12/08/16

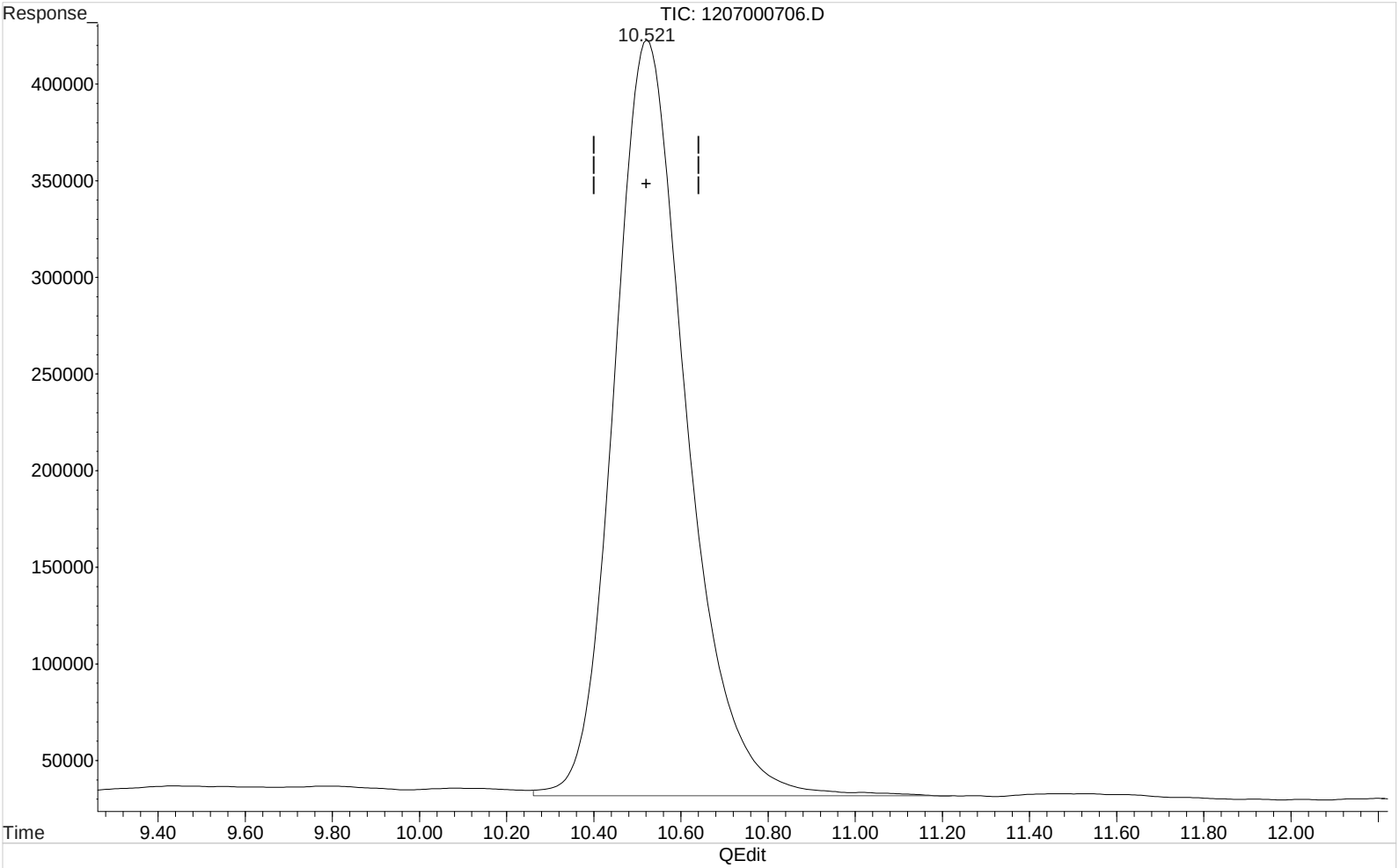
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(5) 1,3,5-TNB (T)

10.521min 99.668 ug/L

response 4529404

Manual Integration:

Before

12/08/16

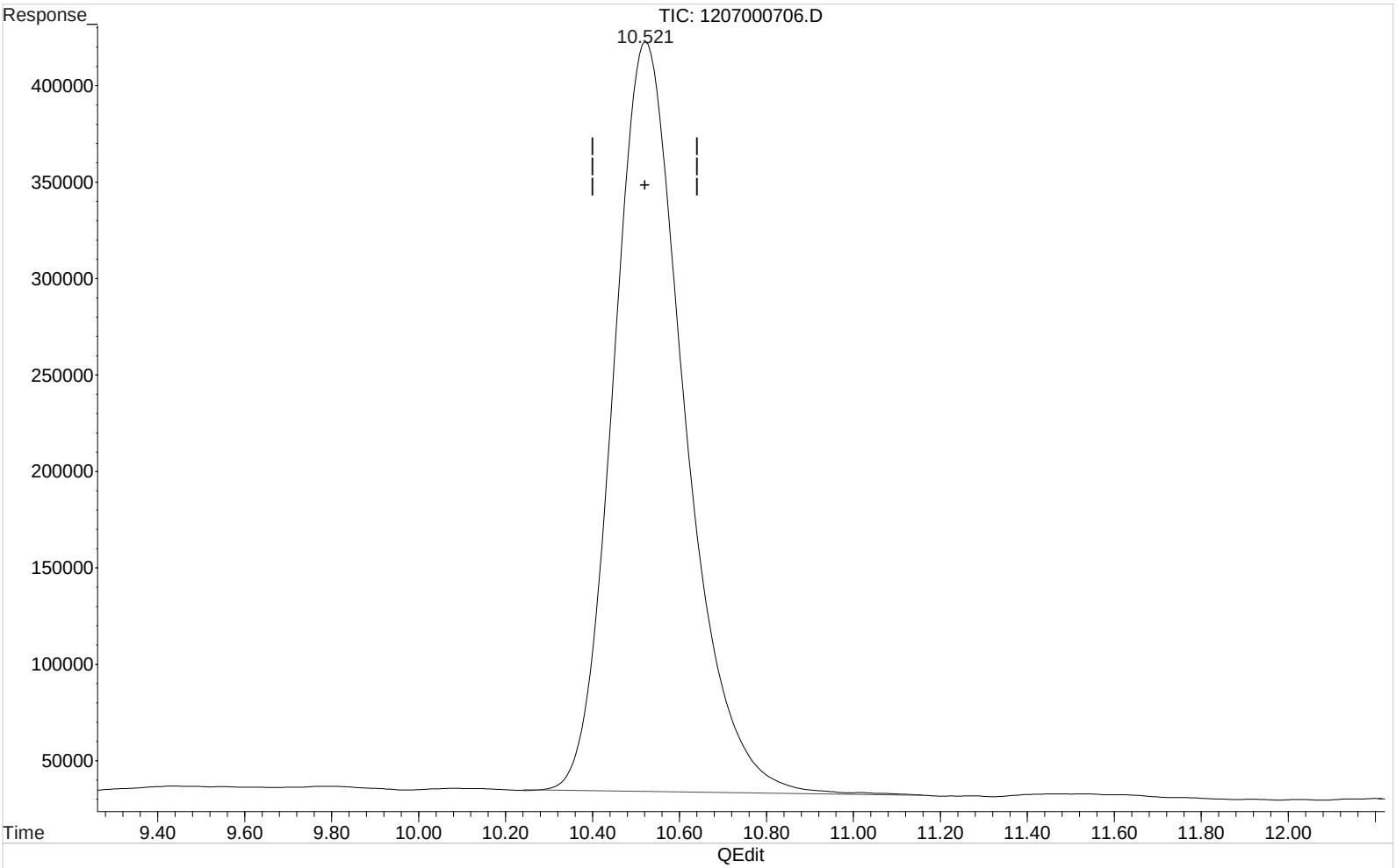
(+) = Expected Retention Time

1st (b) (6) 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(5) 1,3,5-TNB (T)

10.521min 97.549 ug/L m

response 4433120

Manual Integration:

After

BLC

12/08/16

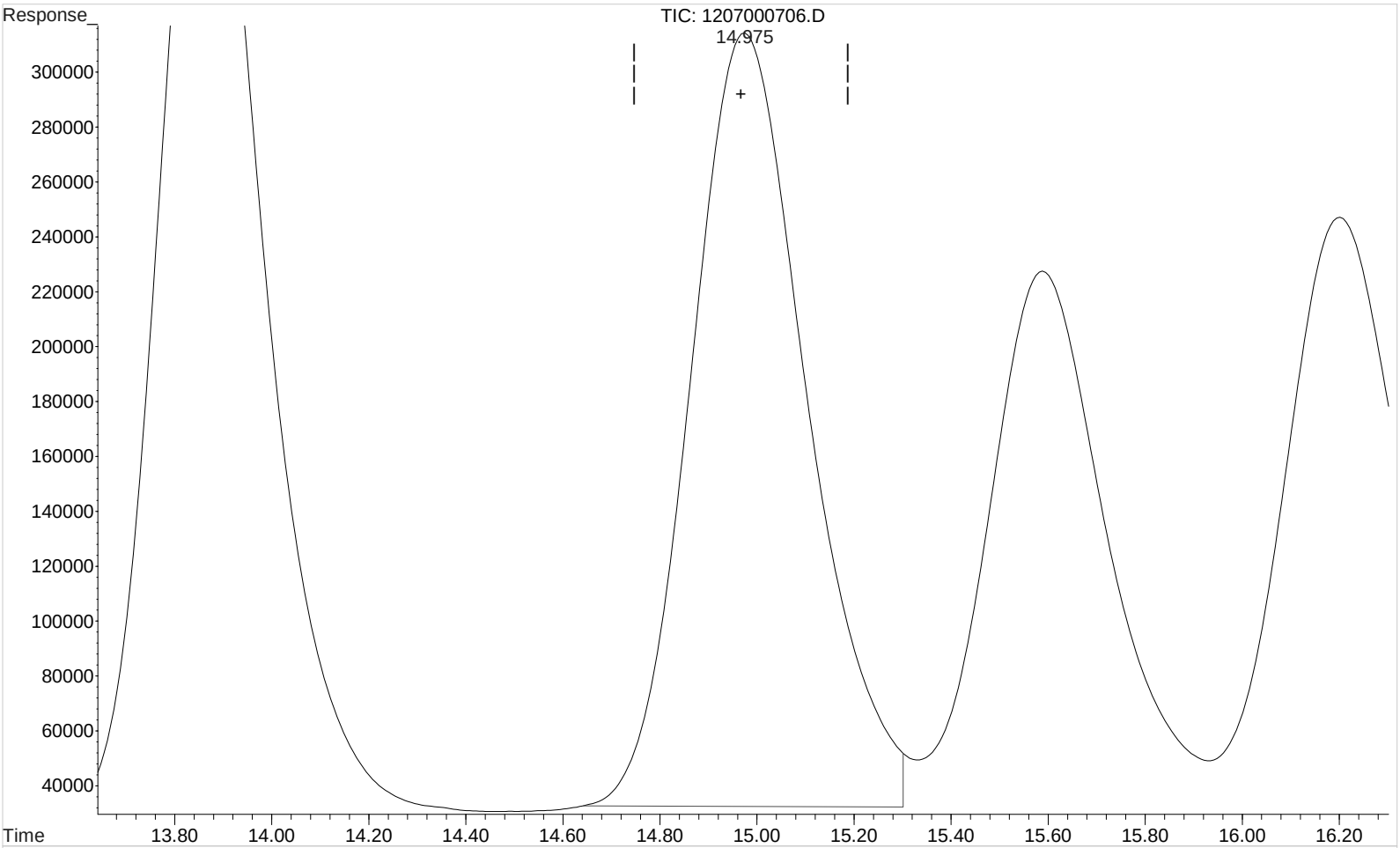
(+) = Expected Retention Time

(b) (6)
1st 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.975min 97.288 ug/L

response 4690794

Manual Integration:

Before

12/08/16

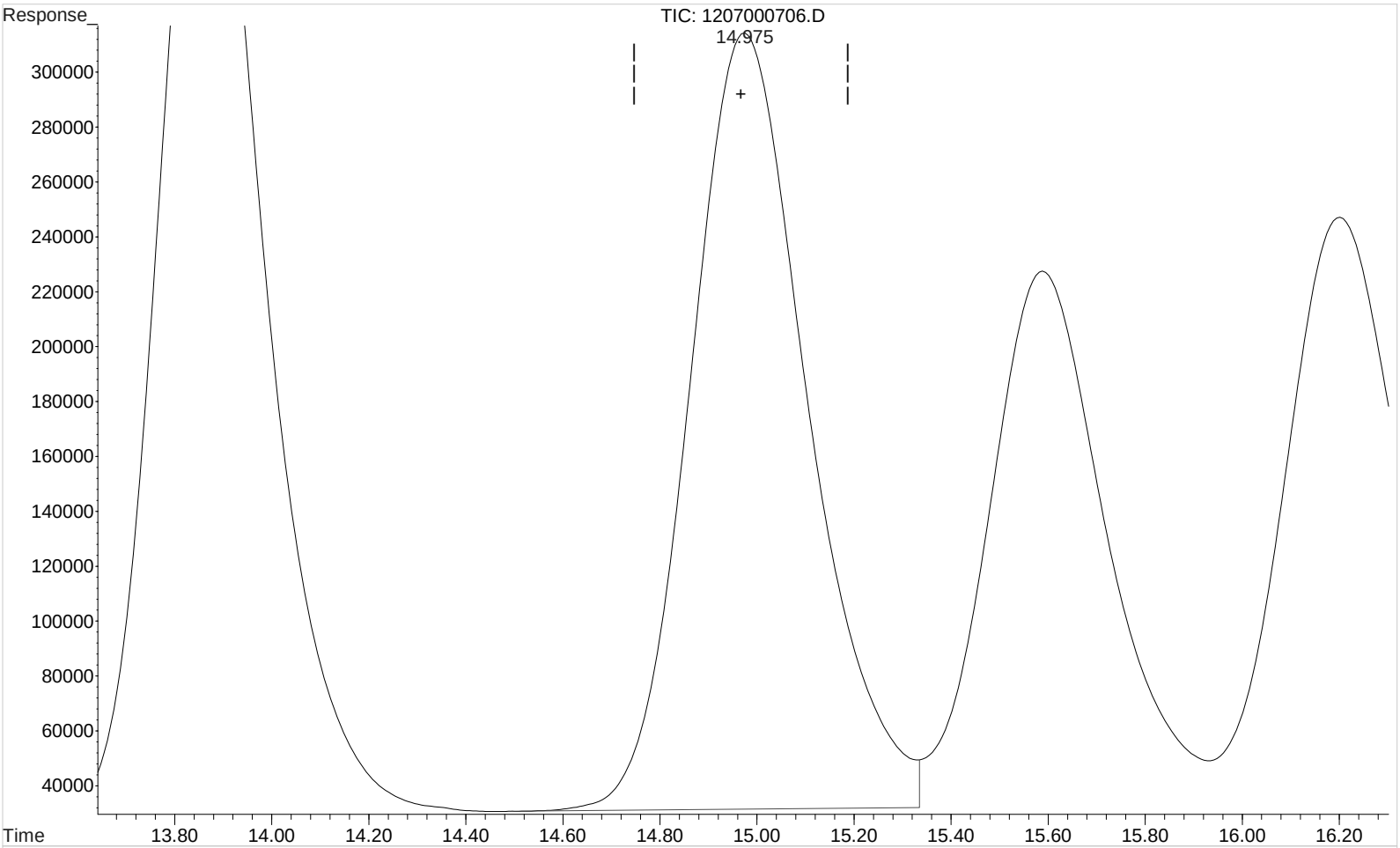
(+) = Expected Retention Time

1st (b) (6) 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.975min 98.935 ug/L m

response 4770181

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

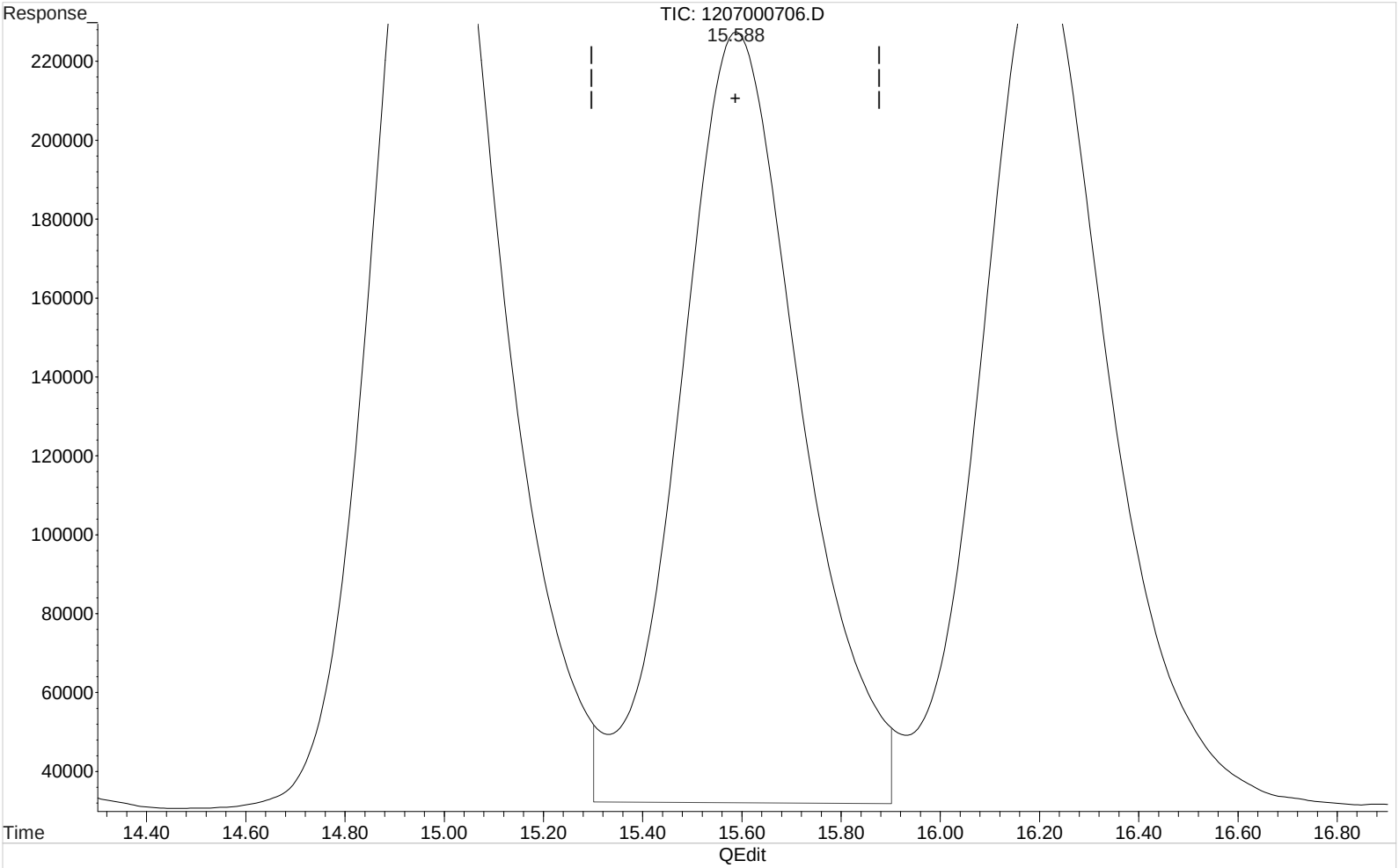
Quantitation Report (Qedit)

1st (b)(6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(8) Tetryl (T)

15.588min 97.618 ug/L

response 3280904

Manual Integration:

Before

12/08/16

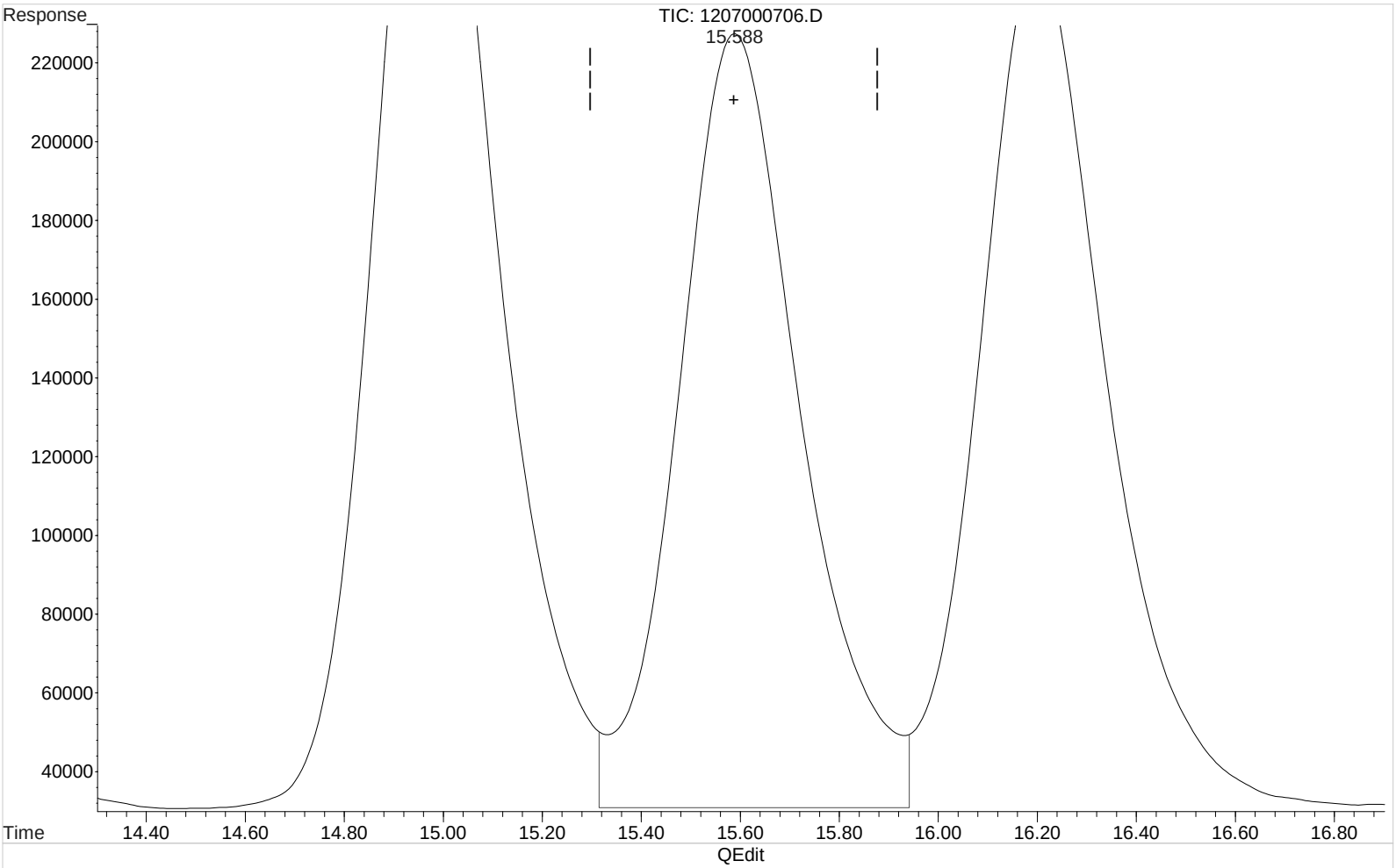
(+) = Expected Retention Time

(b)
1st (6) 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(8) Tetryl (T)

15.588min 99.774 ug/L m

response 3353341

Manual Integration:

After

BLC

12/08/16

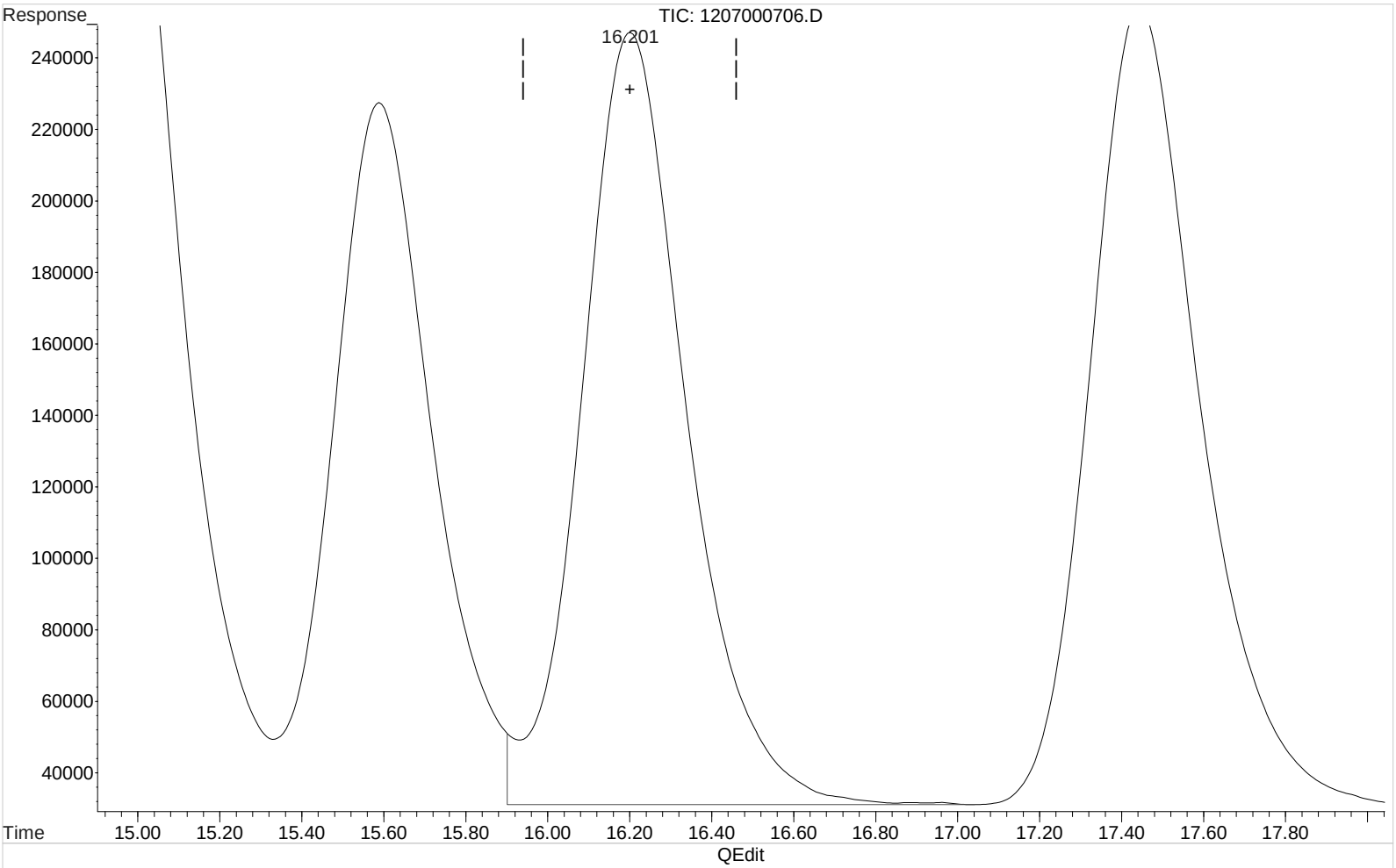
(+) = Expected Retention Time

1st (b) (6) 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.201min 97.938 ug/L

response 3839592

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

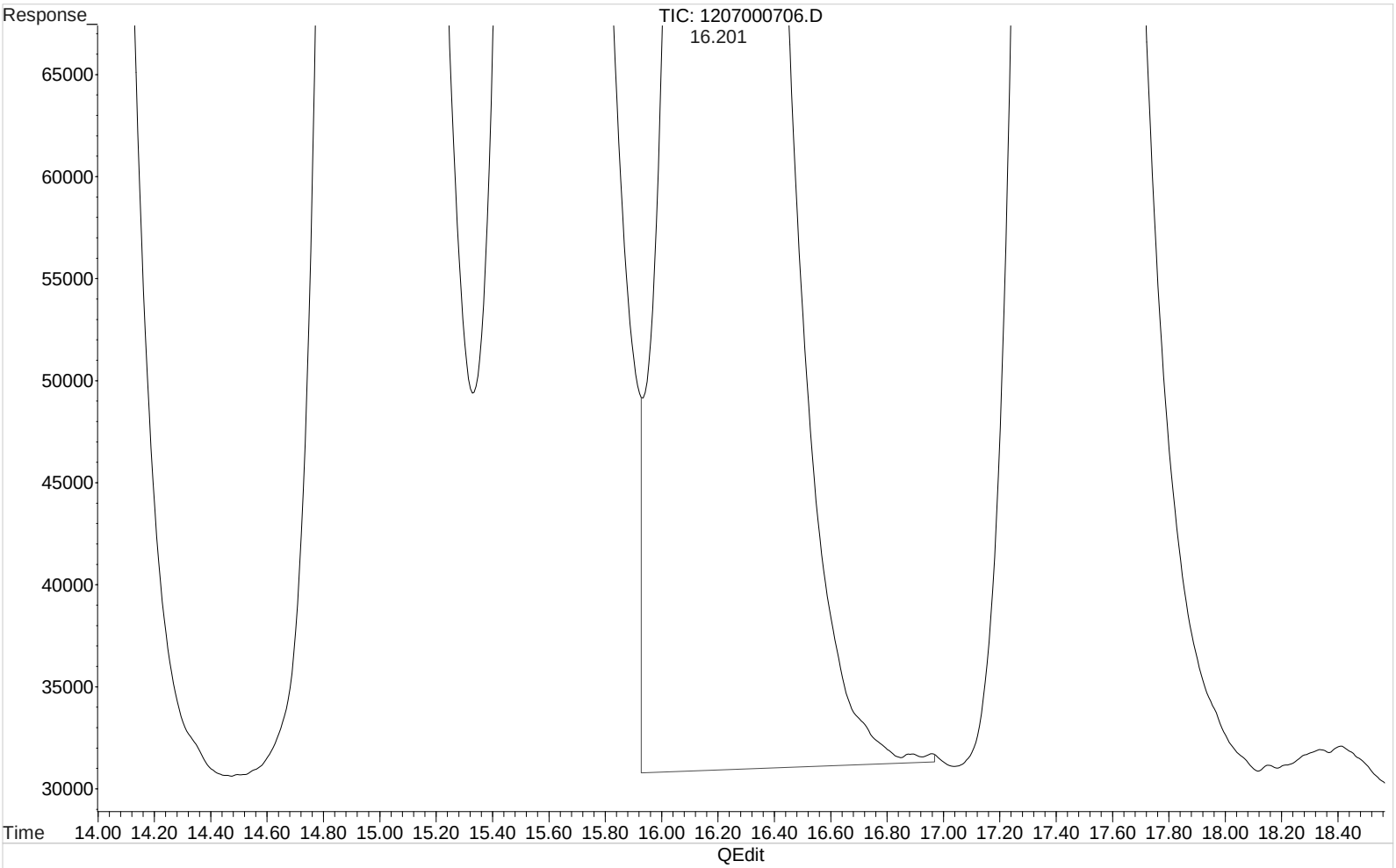
Quantitation Report (Qedit)

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(9) Nitrobenzene (T)

16.201min 97.226 ug/L m

response 3811670

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b)(6)

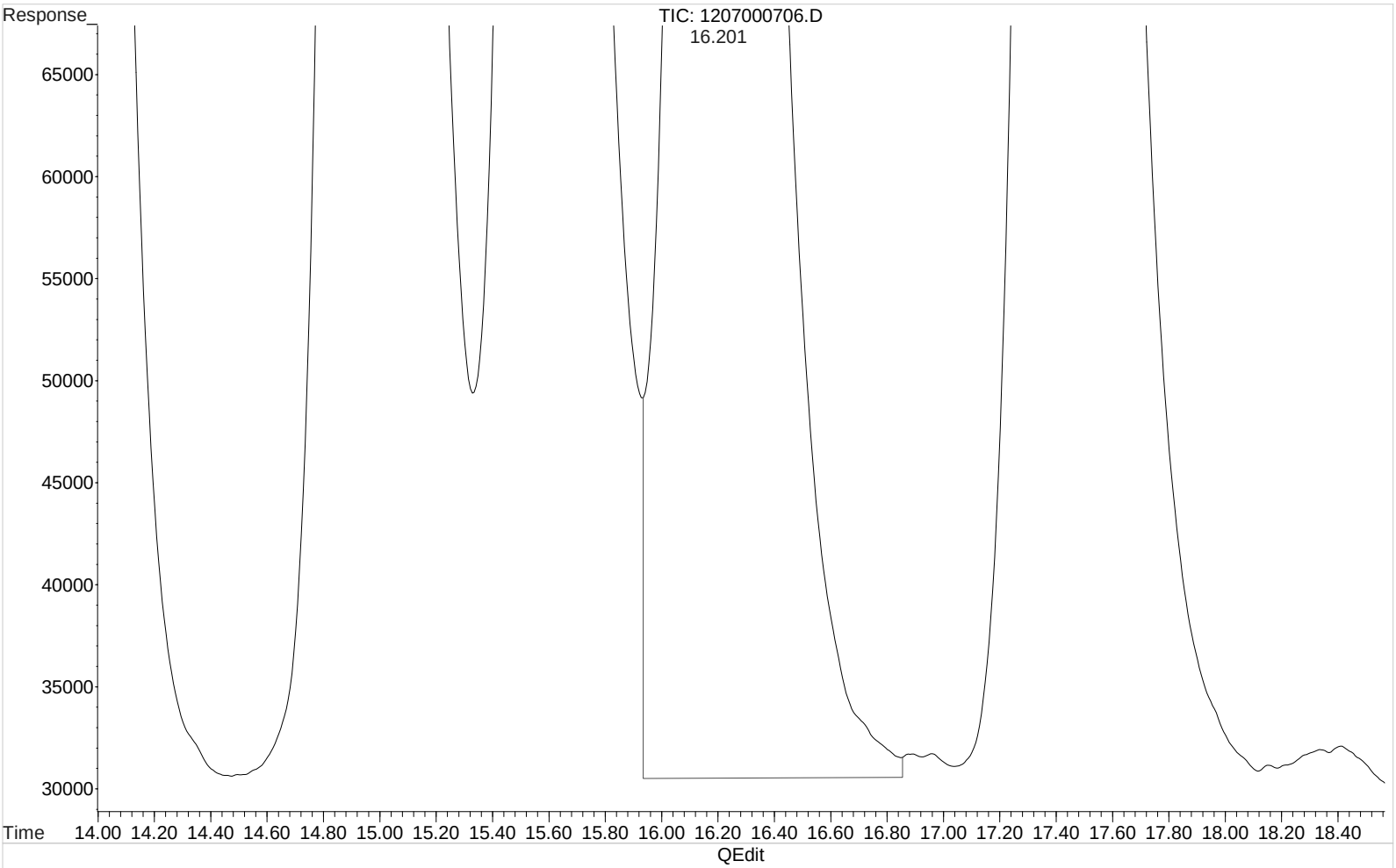
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.201min 97.660 ug/L m

response 3828698

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:13:39 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
18)	S	1-Chloro-3-Nitrobenzene	29.700	4361045	194.259	ug/L	m
		Target Compounds					
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	4.786	2435762	205.004	ug/L	
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	8.386	3921355	194.616	ug/L	
5)	T	1,3,5-TNB	10.520	8886477	197.154	ug/L	
6)	T	1,3-DNB	13.866	12031824	196.315	ug/L	
7)	T	3,5-Dinitroaniline	14.980	9487220	197.468	ug/L	m
8)	T	Tetryl	15.593	6714428	199.929	ug/L	m
9)	T	Nitrobenzene	16.206	7632300	196.210	ug/L	m
10)	T	2,4,6-TNT	17.433	8434124	205.226	ug/L	
11)	T	4-Amino-2,6-DNT	19.193	5924218	203.601	ug/L	
12)	T	2-Amino-4,6-DNT	20.026	8501432	194.761	ug/L	
13)	T	2,6-DNT	21.753	4897380	201.372	ug/L	m
14)	T	2,4-DNT	22.206	11809220	201.727	ug/L	m
15)	T	2-NT	25.326	3610858	201.453	ug/L	m
16)	T	4-NT	26.253	3198950	197.617	ug/L	m
17)	T	3-NT	27.380	4020214	198.714	ug/L	

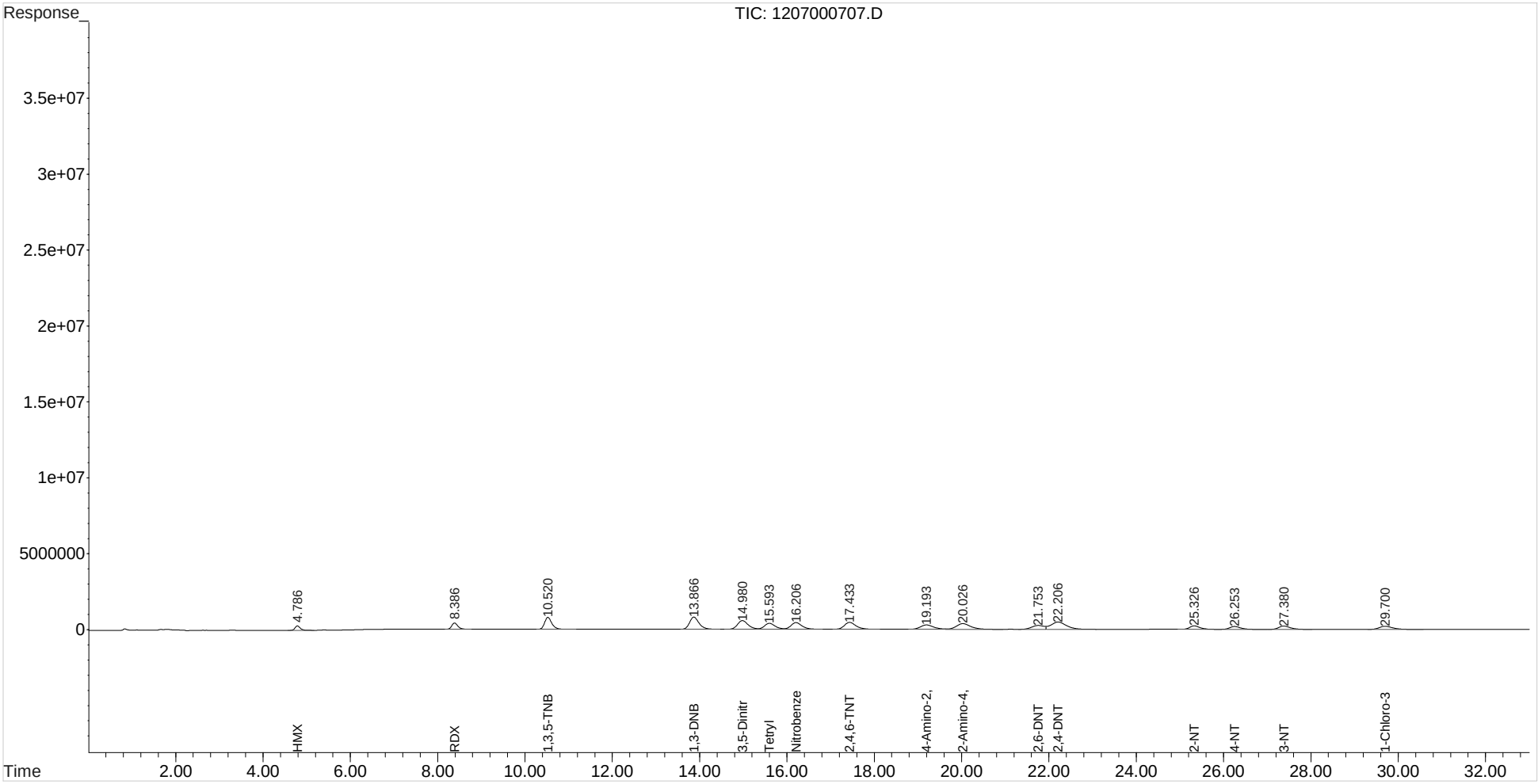
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:13:39 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

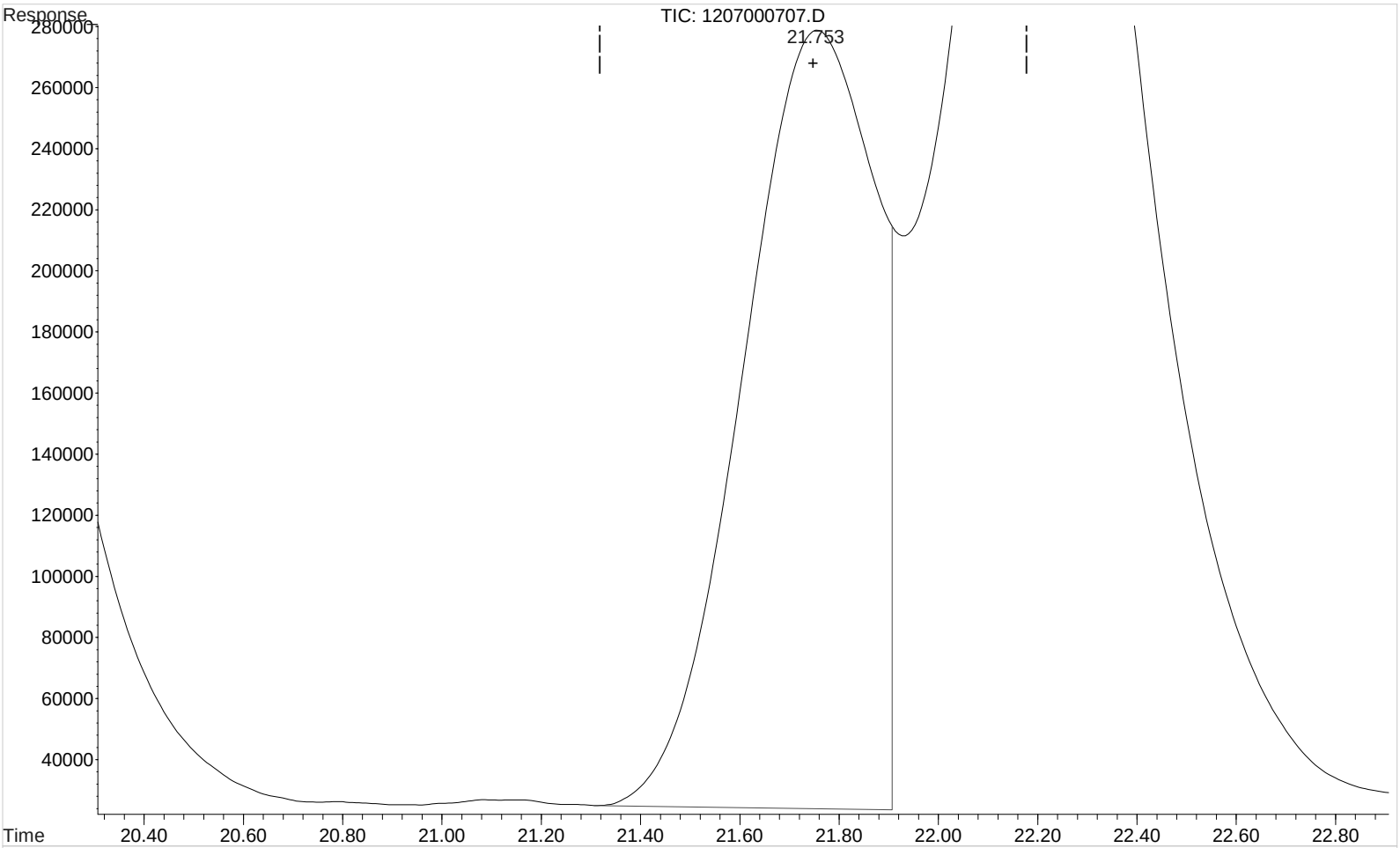


(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.753min 193.577 ug/L

response 4707799

Manual Integration:

Before

12/08/16

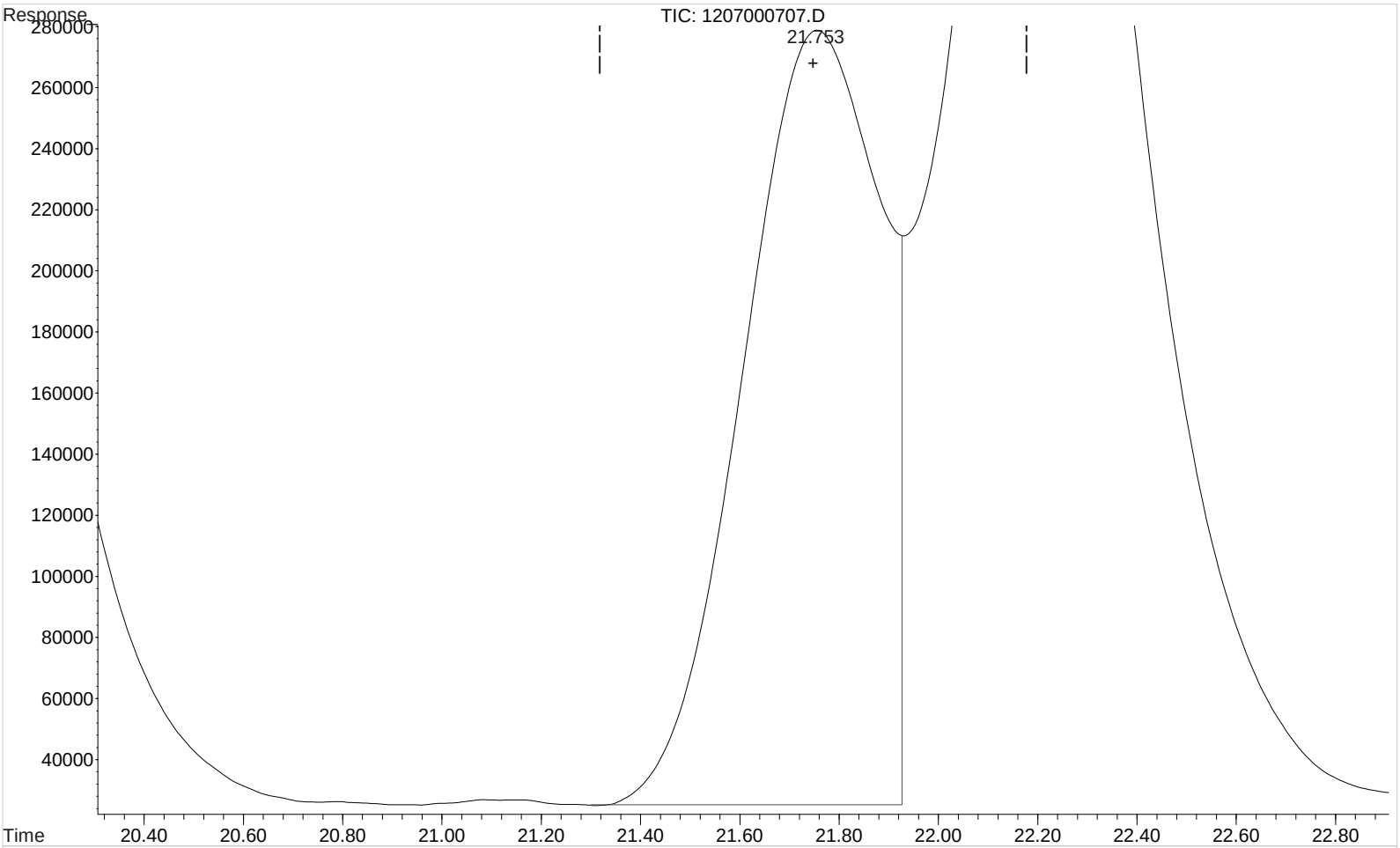
(+) = Expected Retention Time

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.753min 201.372 ug/L m

response 4897380

Manual Integration:

After

BLC

12/08/16

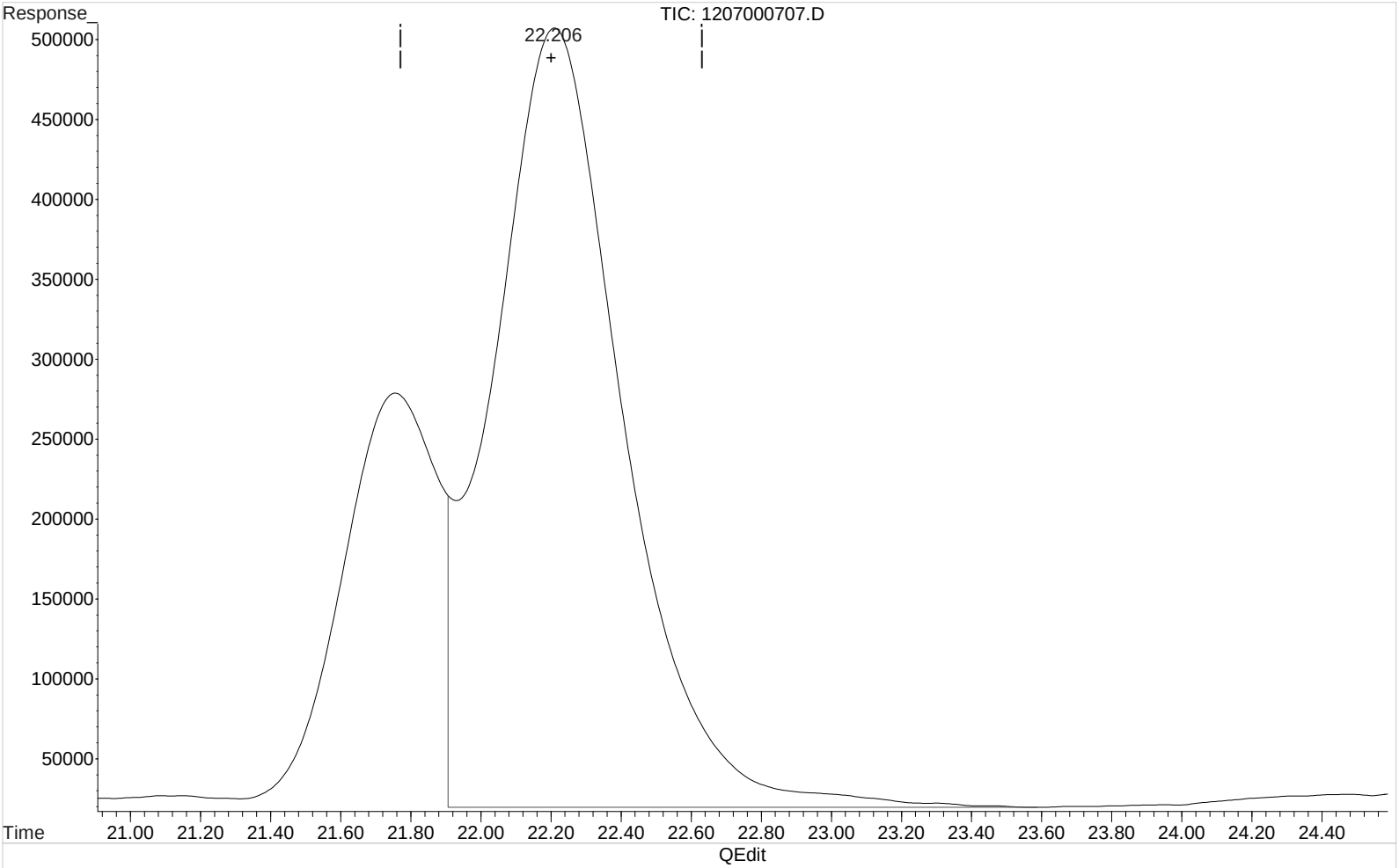
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.206min 215.947 ug/L

response 12641702

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

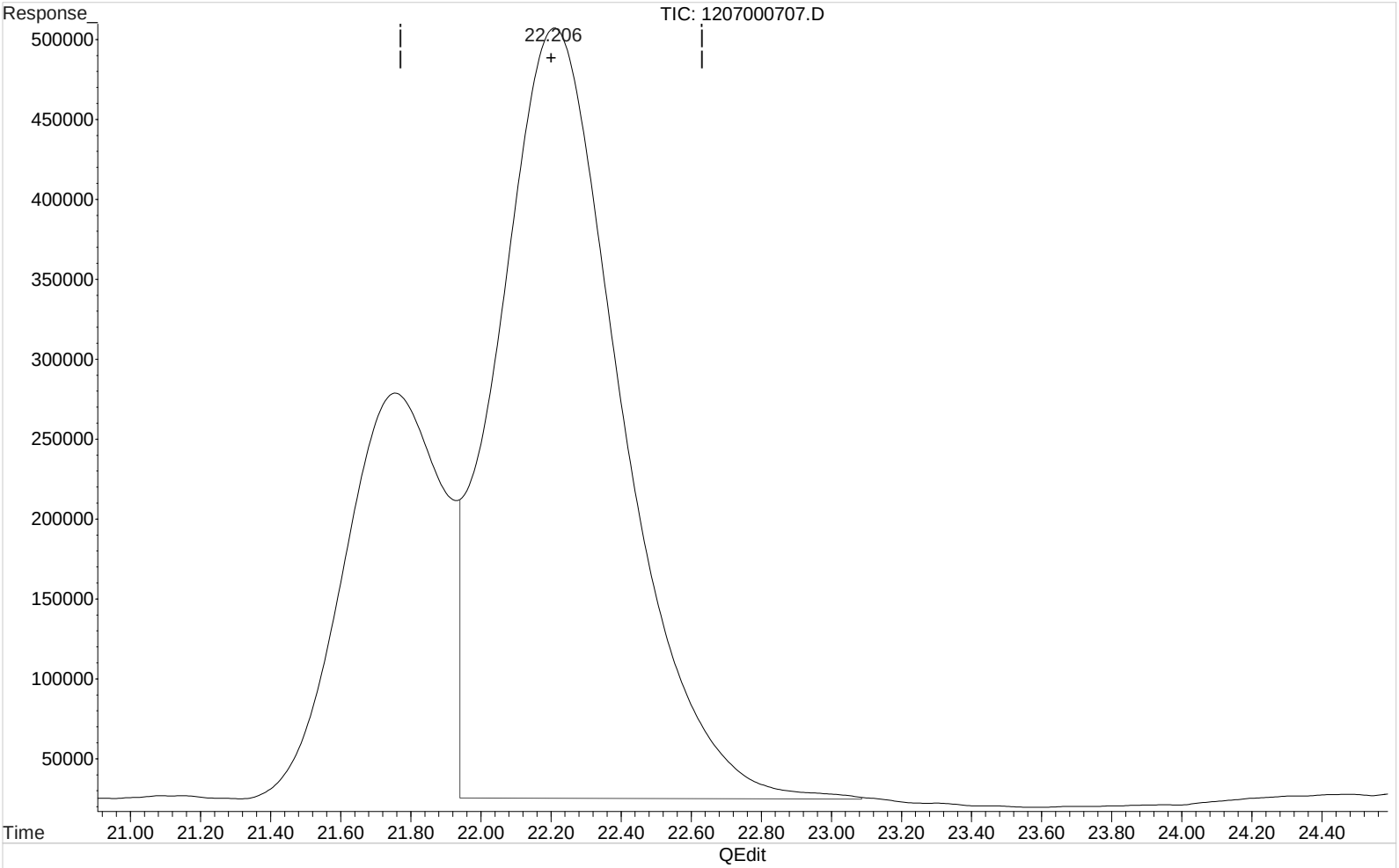
Quantitation Report (Qedit)

1st (b) (6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.206min 201.727 ug/L m

response 11809220

Manual Integration:

After

BLC

12/08/16

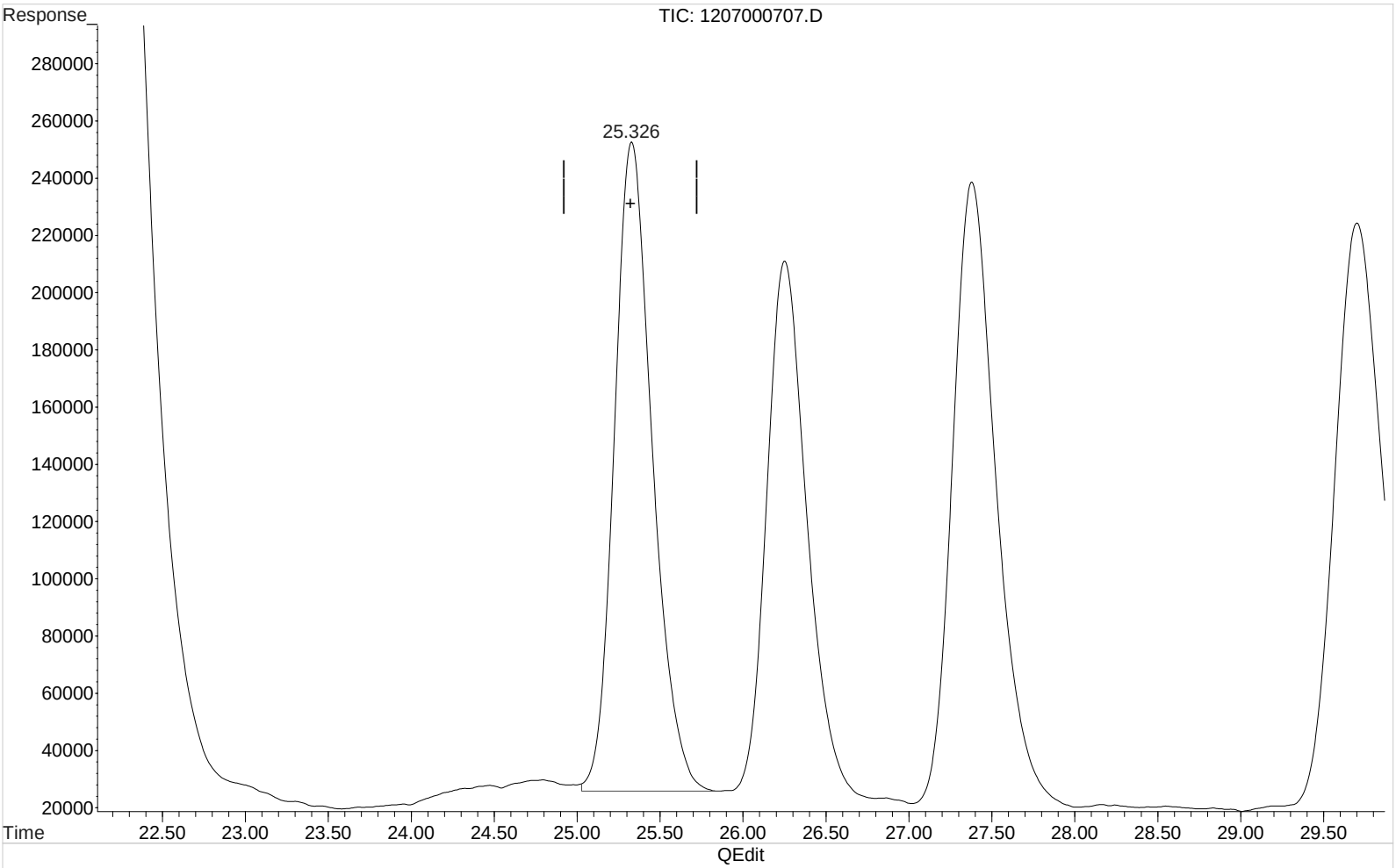
(+) = Expected Retention Time

1st (b) (6) 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.326min 202.270 ug/L

response 3625509

Manual Integration:

Before

12/08/16

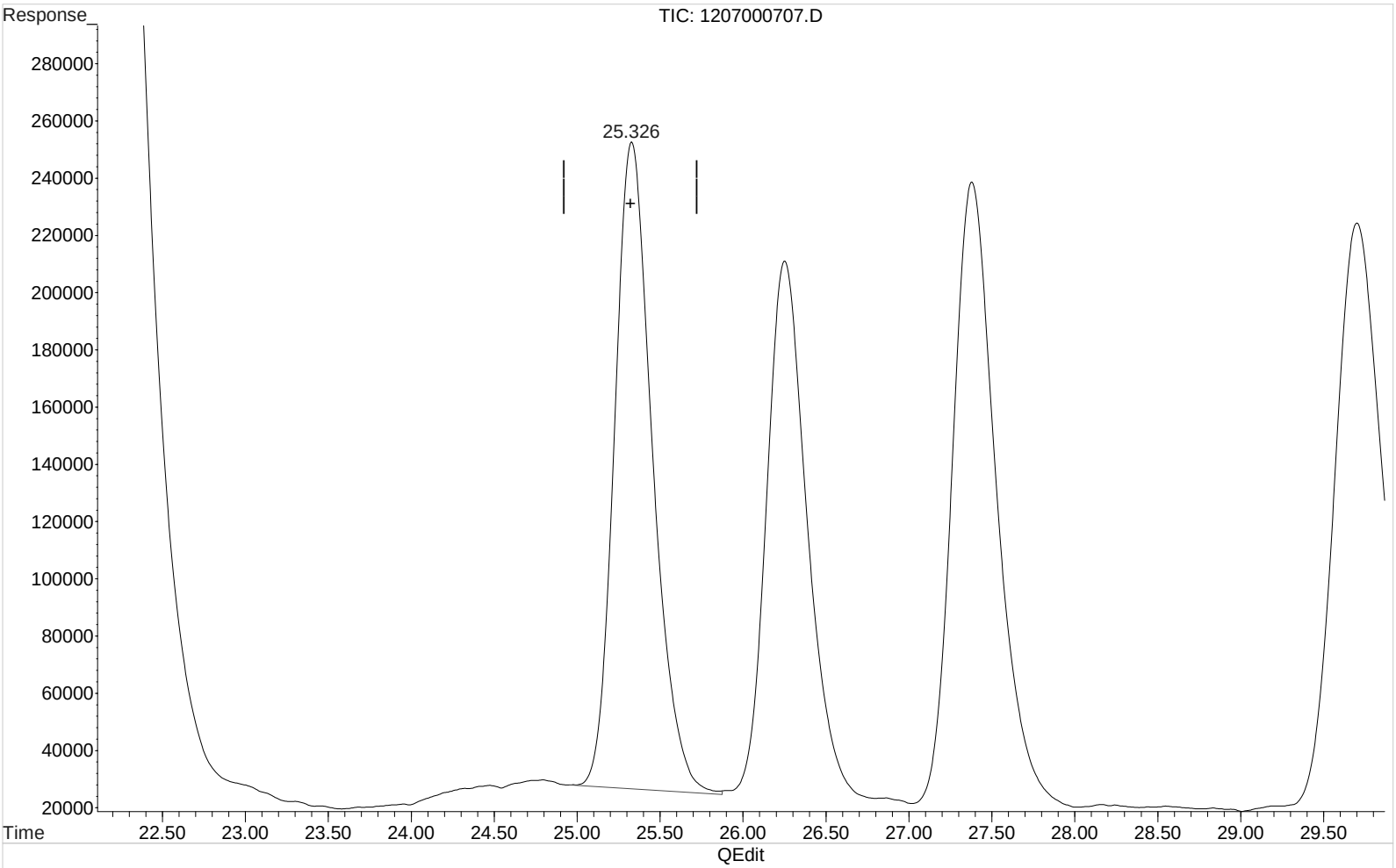
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.326min 201.453 ug/L m

response 3610858

Manual Integration:

After

BLC

12/08/16

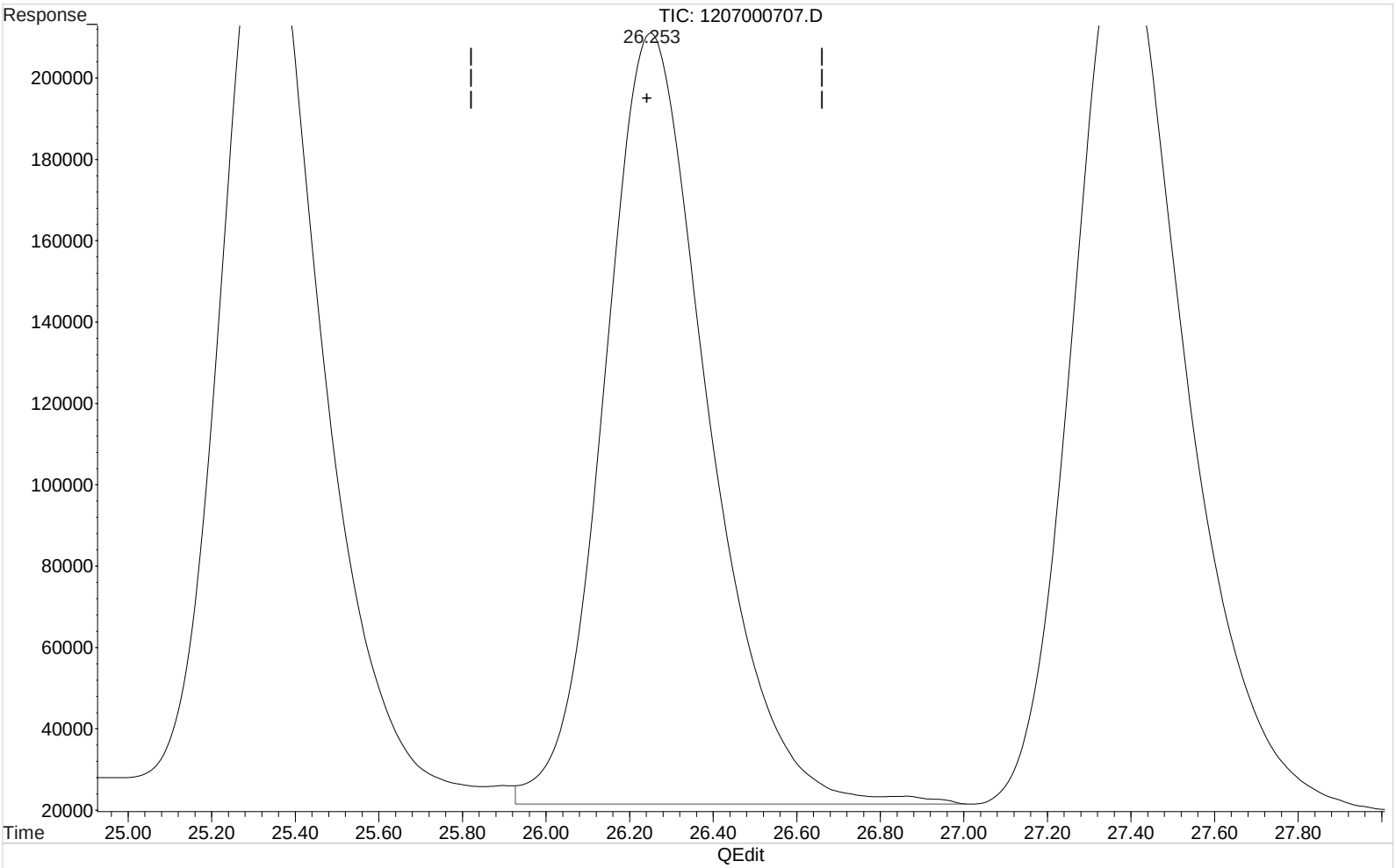
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.253min 203.164 ug/L

response 3288744

Manual Integration:

Before

12/08/16

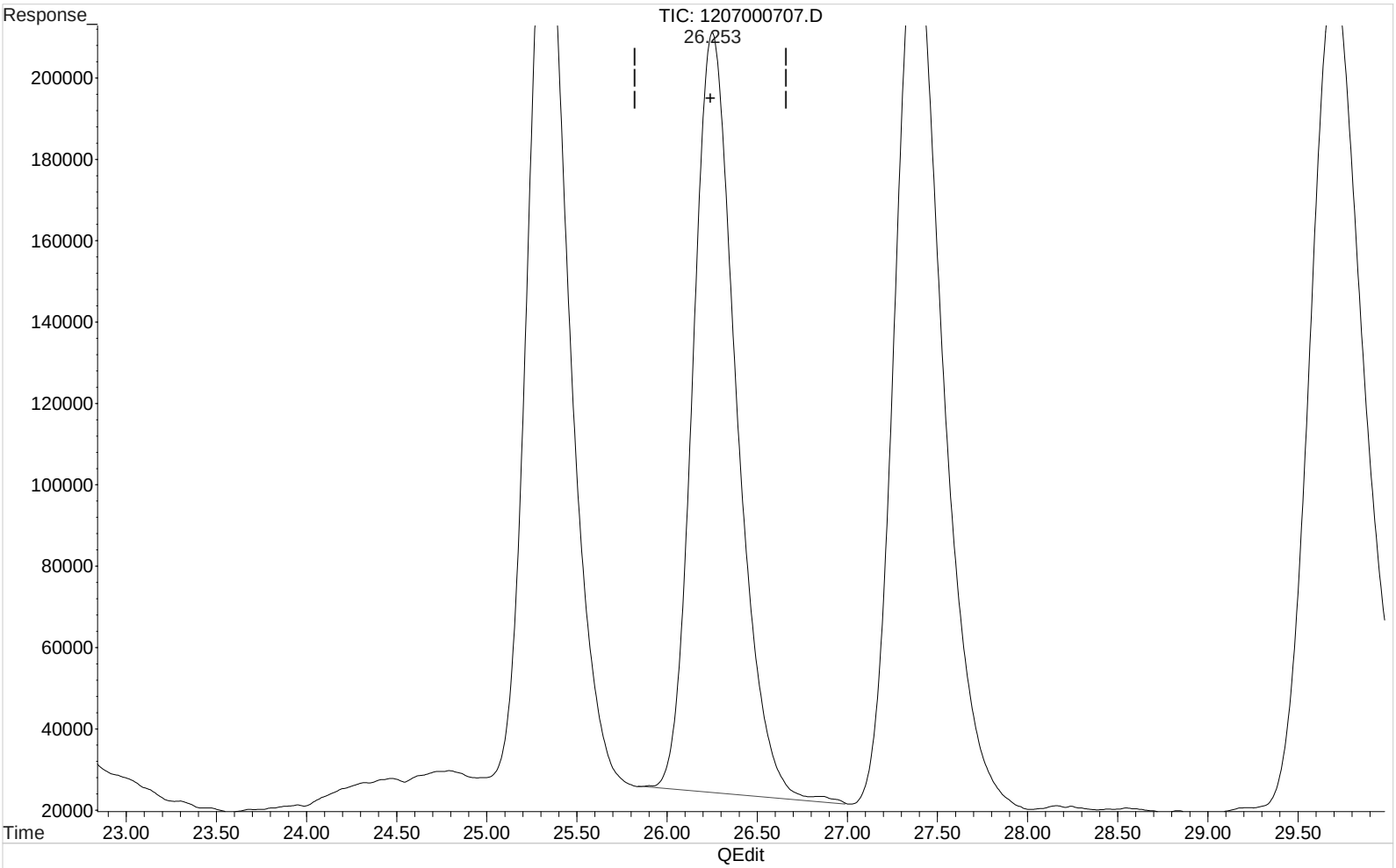
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.253min 195.125 ug/L m

response 3158608

Manual Integration:

Before

12/08/16

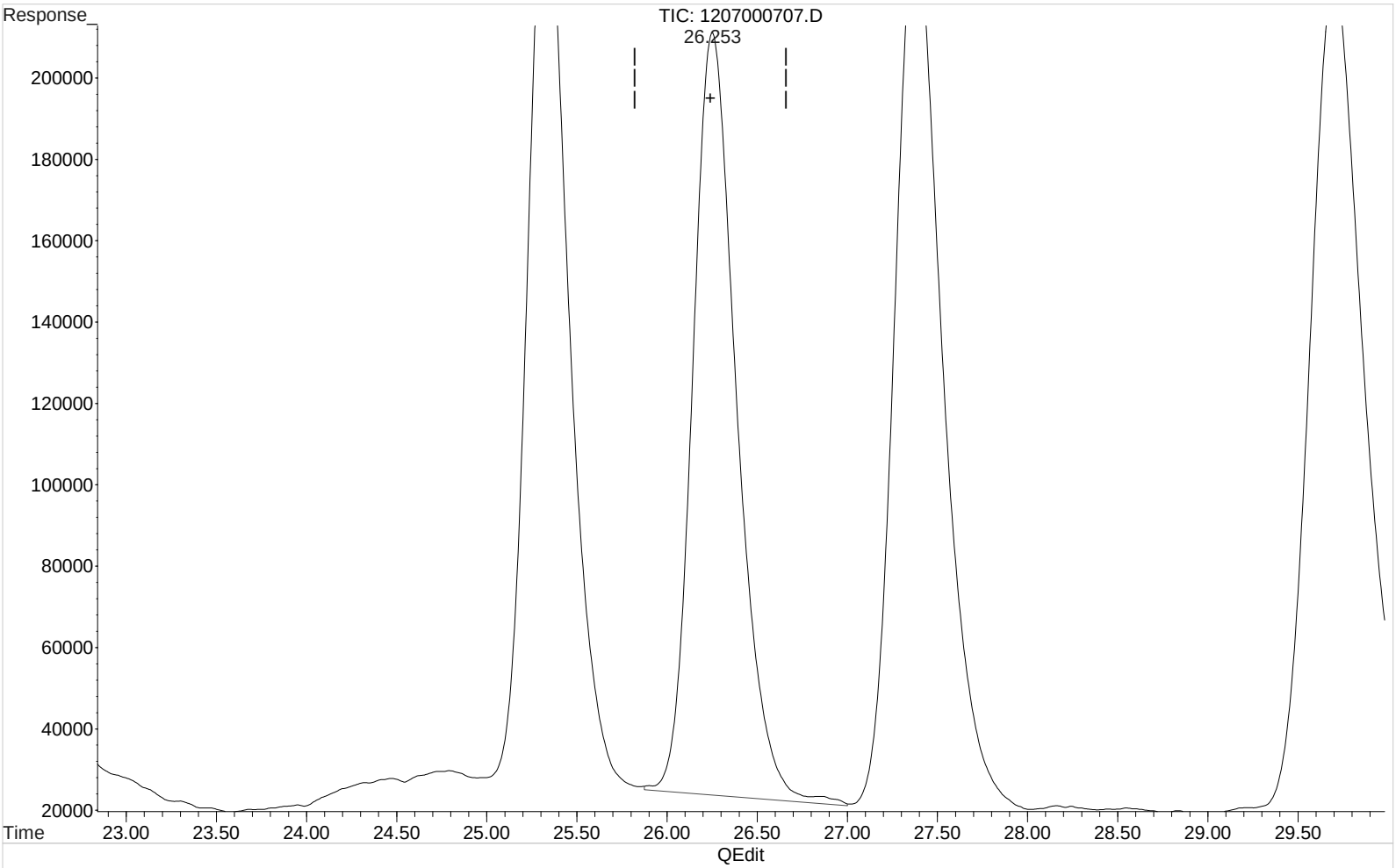
(+) = Expected Retention Time

(b)(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.253min 197.617 ug/L m

response 3198950

Manual Integration:

After

BLC

12/08/16

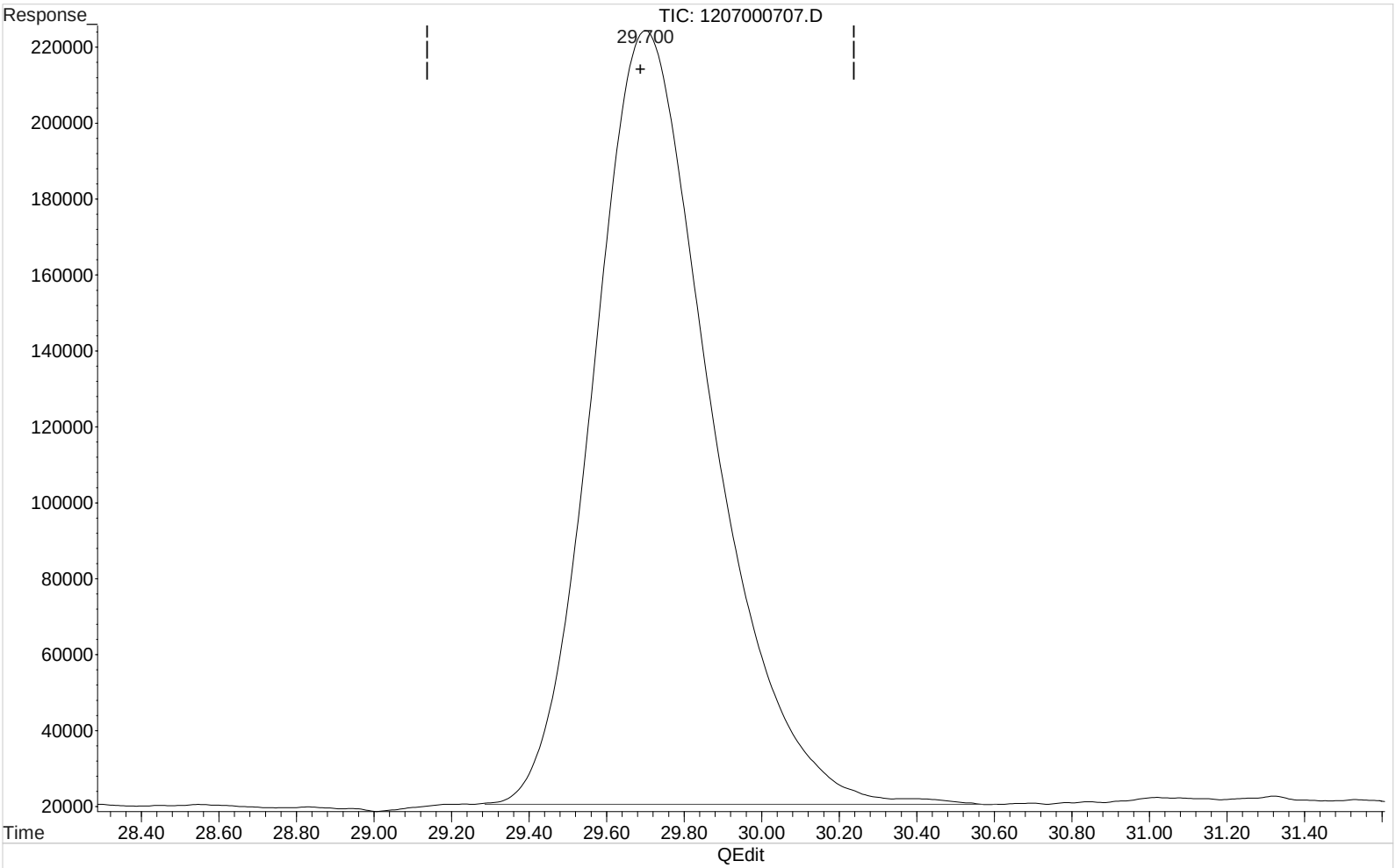
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(18) 1-Chloro-3-Nitrobenzene (S)

29.700min 192.103 ug/L

response 4312645

Manual Integration:

Before

12/08/16

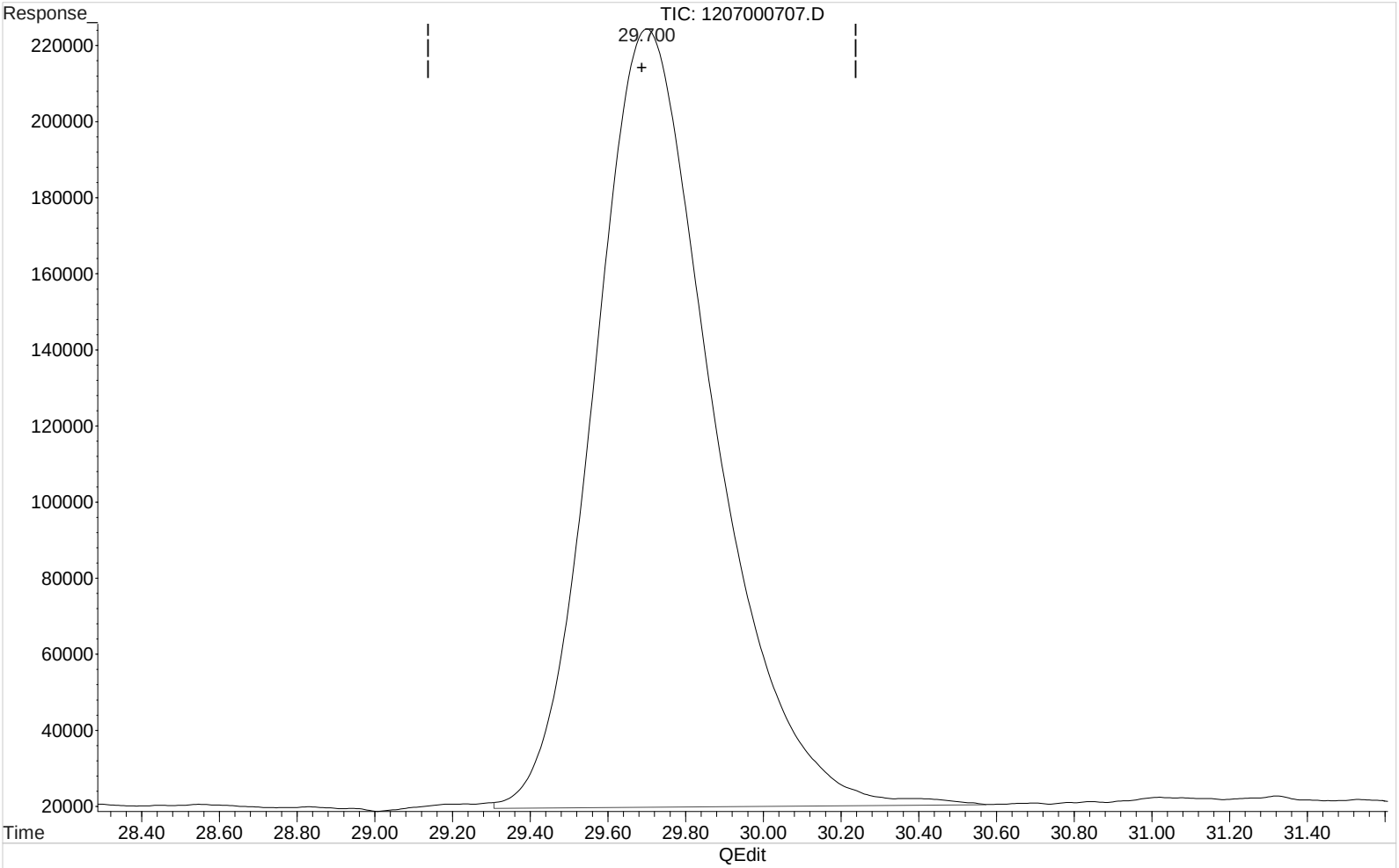
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(18) 1-Chloro-3-Nitrobenzene (S)

29.700min 194.259 ug/L m

response 4361045

Manual Integration:

After

BLC

12/08/16

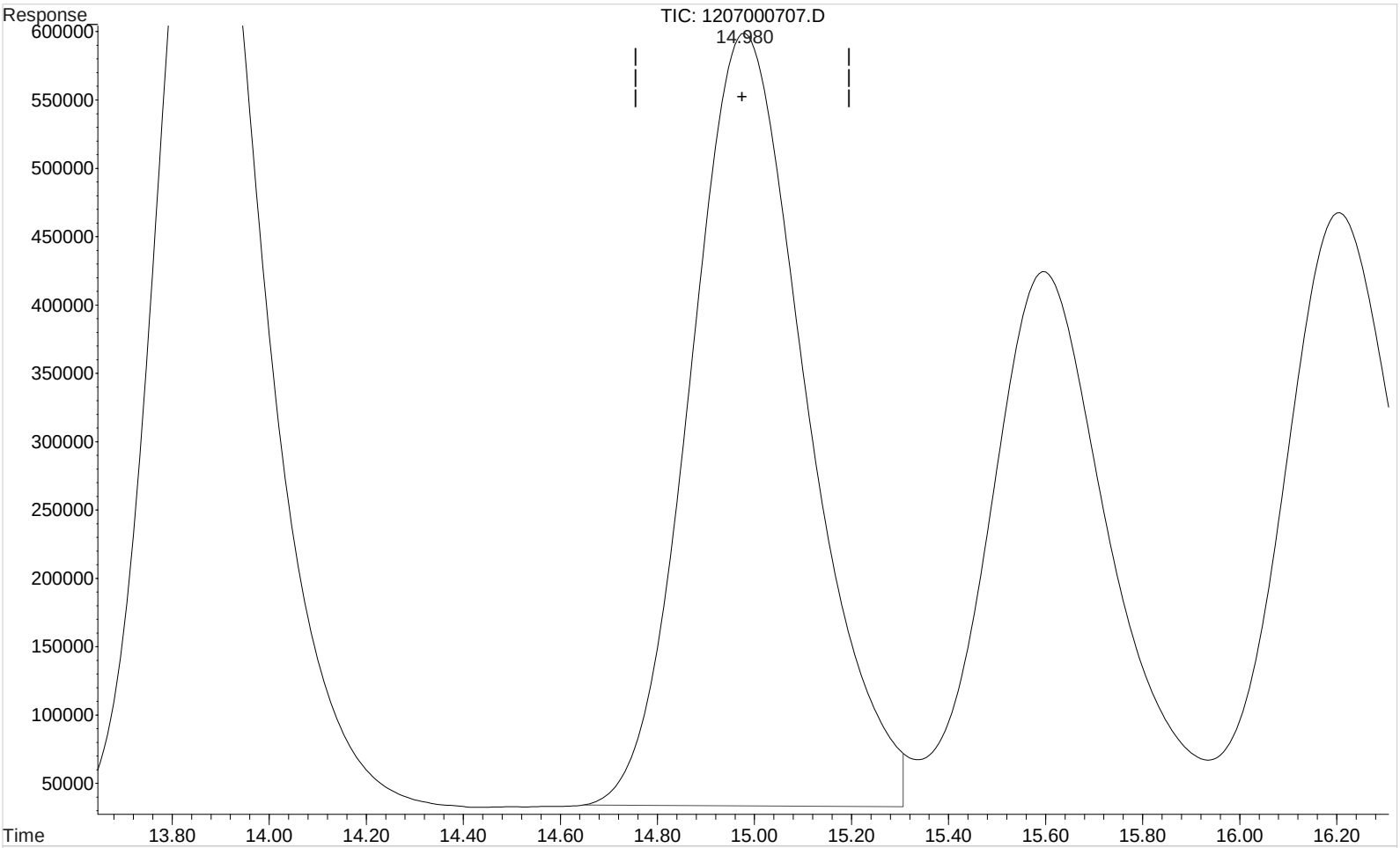
(+) = Expected Retention Time

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.980min 195.548 ug/L

response 9394960

Manual Integration:

Before

12/08/16

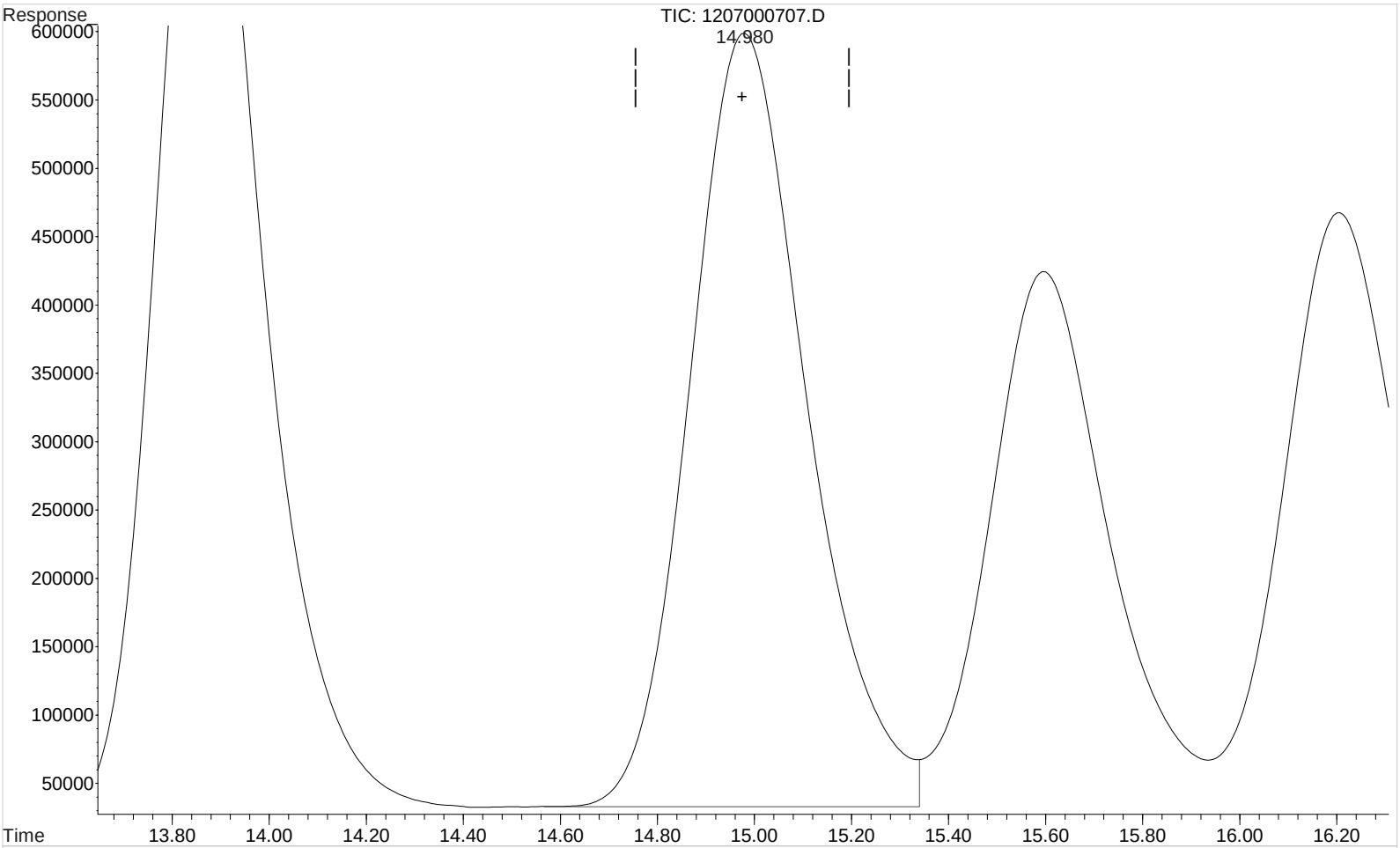
(+) = Expected Retention Time

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.980min 197.468 ug/L m

response 9487220

Manual Integration:

After

BLC

12/08/16

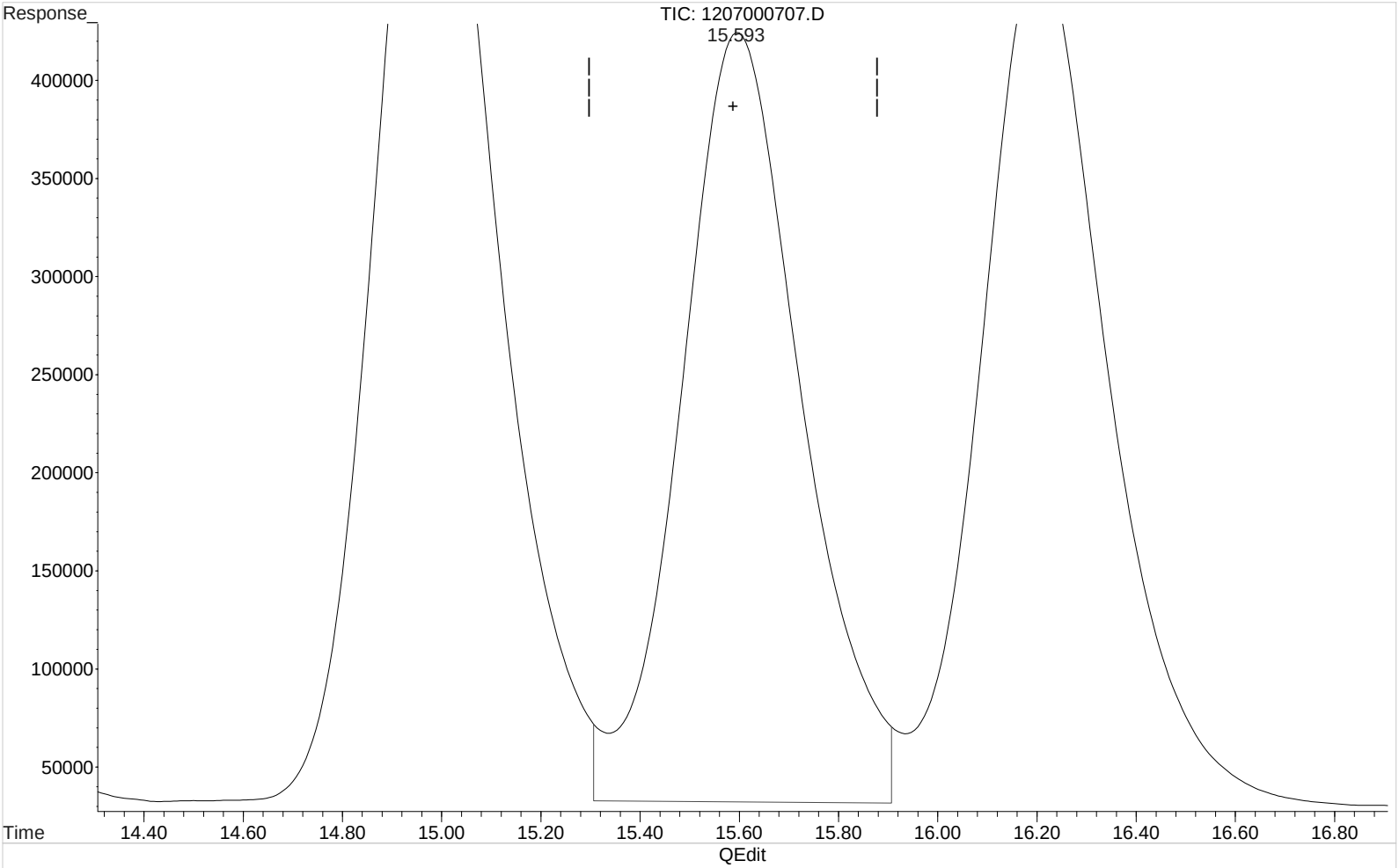
(+) = Expected Retention Time

1st (b) (6) 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.593min 196.528 ug/L

response 6600222

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

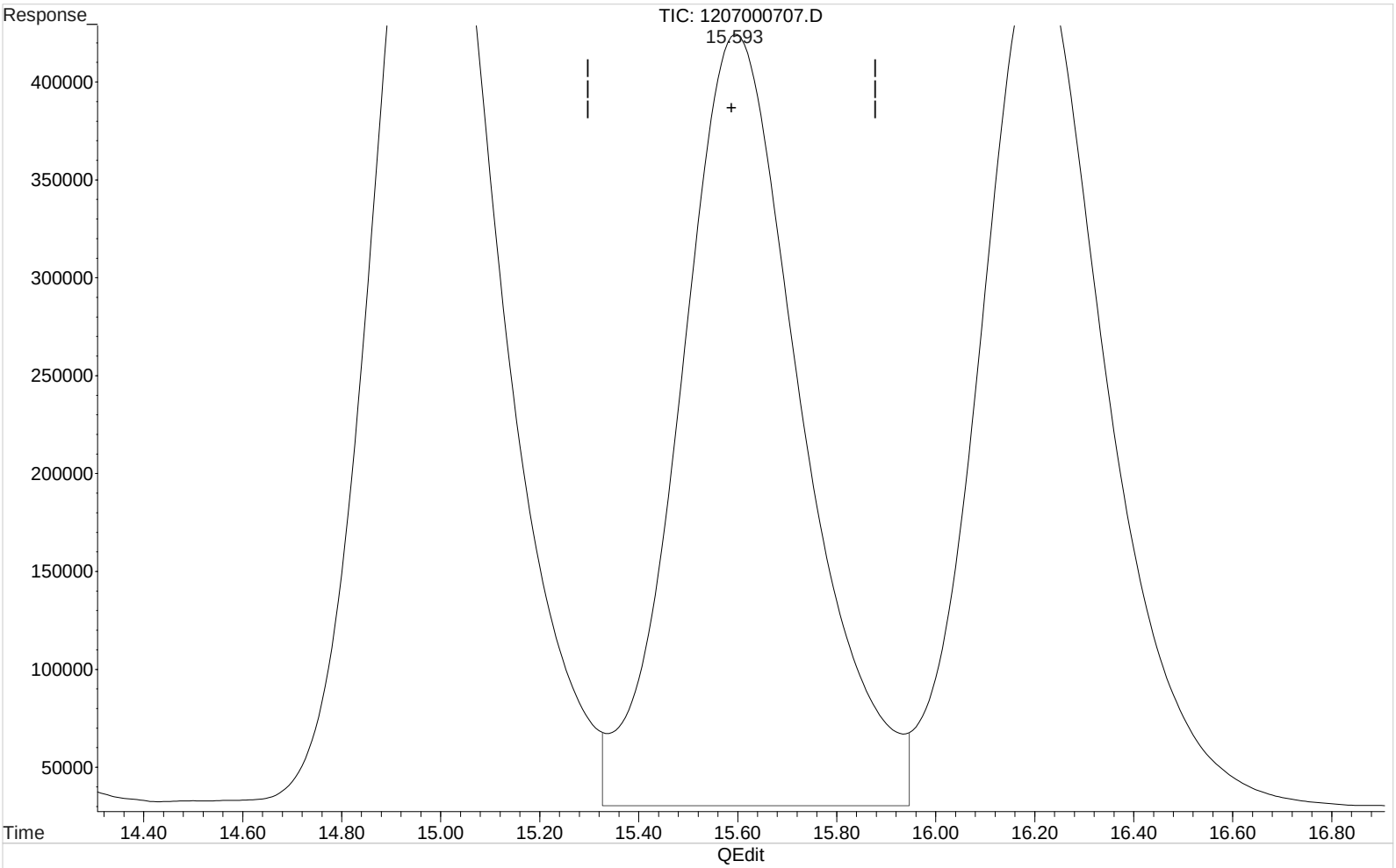
Quantitation Report (Qedit)

1st (b)(6) 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.593min 199.929 ug/L m

response 6714428

Manual Integration:

After

BLC

12/08/16

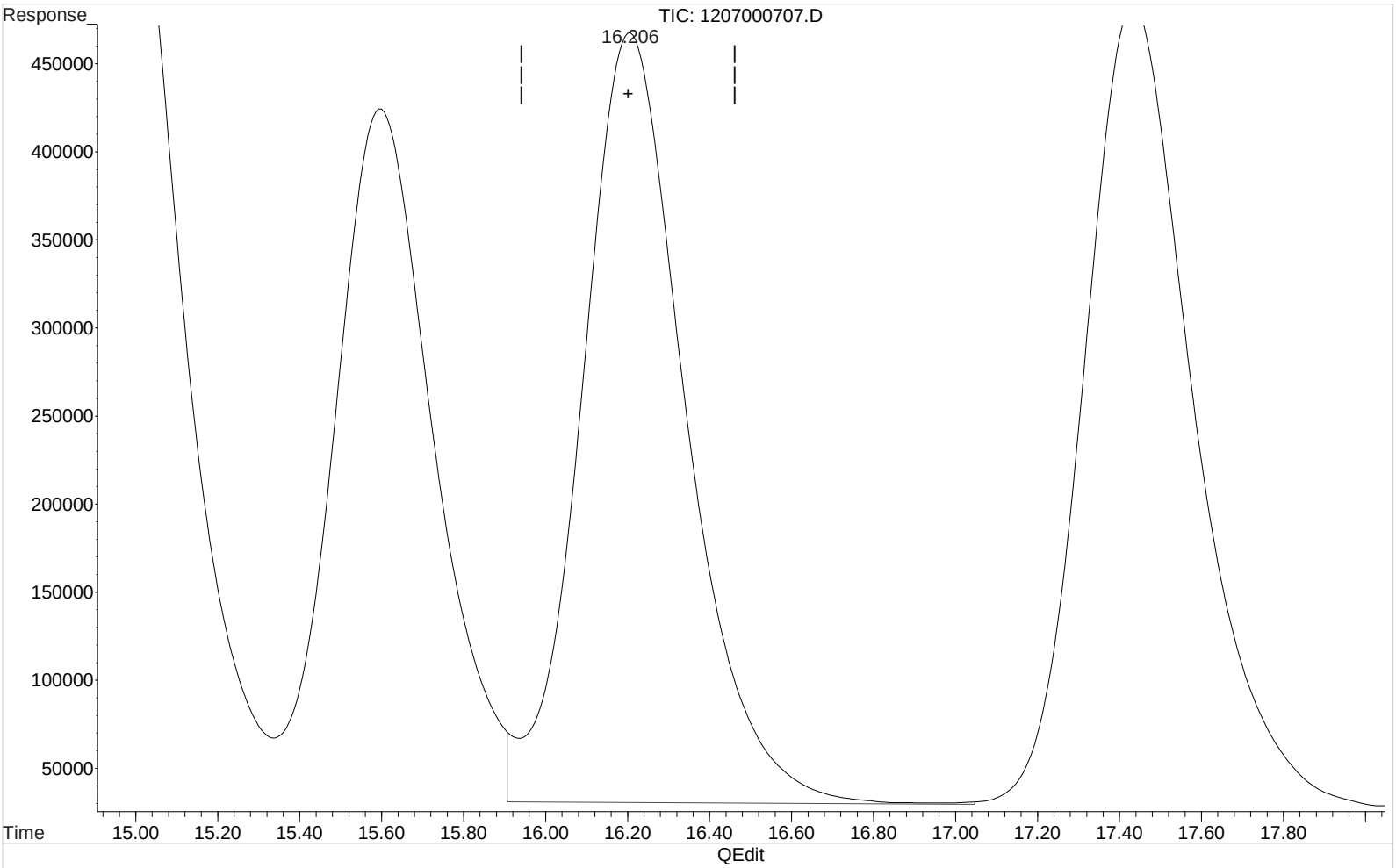
(+) = Expected Retention Time

1st (b)(6) 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.206min 198.294 ug/L

response 7713338

Manual Integration:

Before

12/08/16

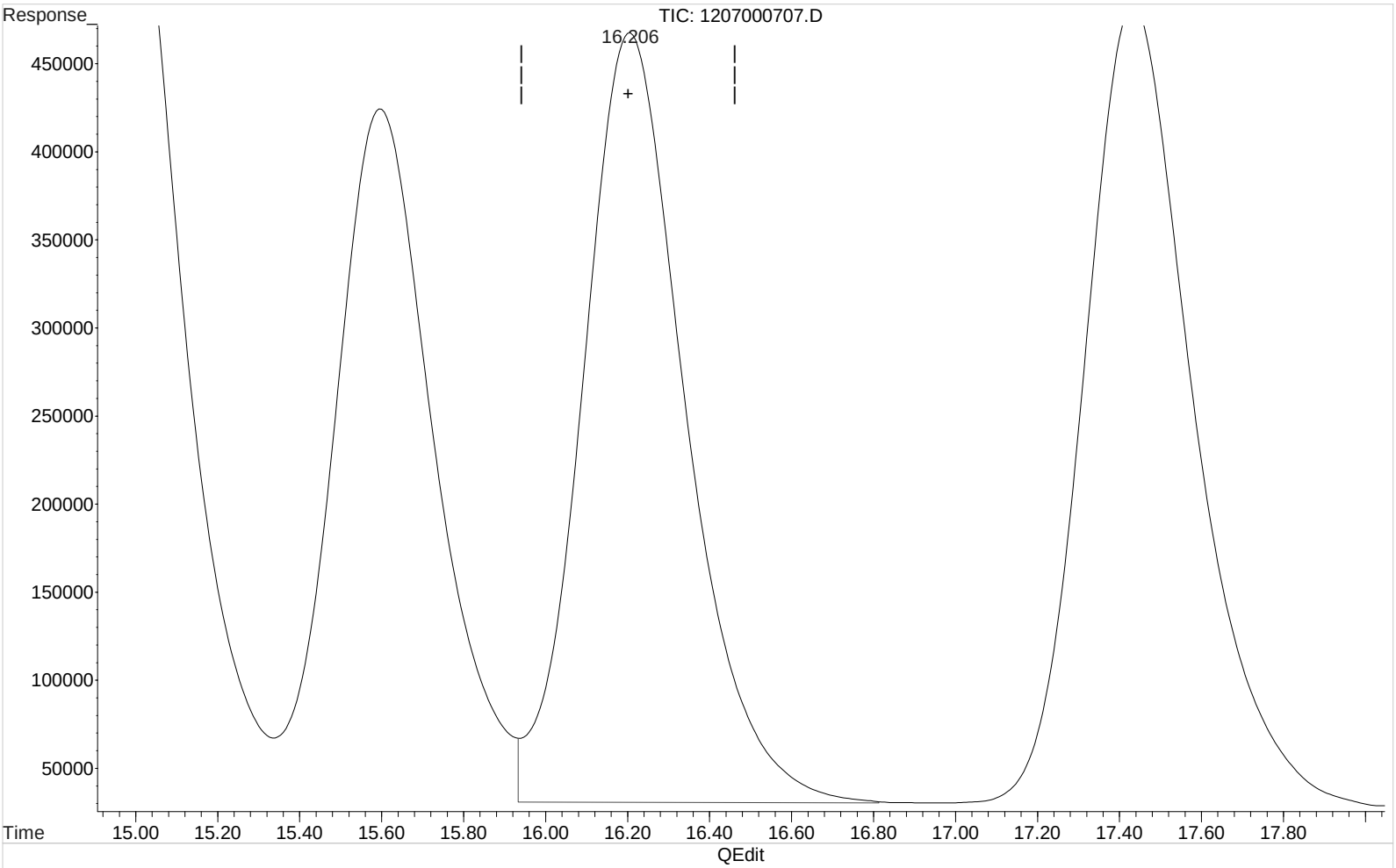
(+) = Expected Retention Time

(b) (6)
1st 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(9) Nitrobenzene (T)

16.206min 196.210 ug/L m

response 7632300

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:15:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
18) S	1-Chloro-3-Nitrobenzene	29.705	10886437	488.432	ug/L	
	Target Compounds					
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2) T	HMX	4.785	6056374	506.562	ug/L	
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4) T	RDX	8.379	10003709	499.846	ug/L	
5) T	1,3,5-TNB	10.519	22540023	501.855	ug/L	
6) T	1,3-DNB	13.859	30302928	496.719	ug/L	
7) T	3,5-Dinitroaniline	14.965	24125484	503.745	ug/L	
8) T	Tetryl	15.585	16812702	500.659	ug/L	
9) T	Nitrobenzene	16.192	19511965	503.999	ug/L	
10) T	2,4,6-TNT	17.439	21176168	511.931	ug/L	
11) T	4-Amino-2,6-DNT	19.192	14984390	512.669	ug/L	
12) T	2-Amino-4,6-DNT	20.025	21286599	490.874	ug/L	
13) T	2,6-DNT	21.745	12560679	515.590	ug/L	m
14) T	2,4-DNT	22.205	29961095	510.697	ug/L	m
15) T	2-NT	25.325	9109097	507.283	ug/L	m
16) T	4-NT	26.252	8010069	496.306	ug/L	m
17) T	3-NT	27.379	10130589	501.548	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)

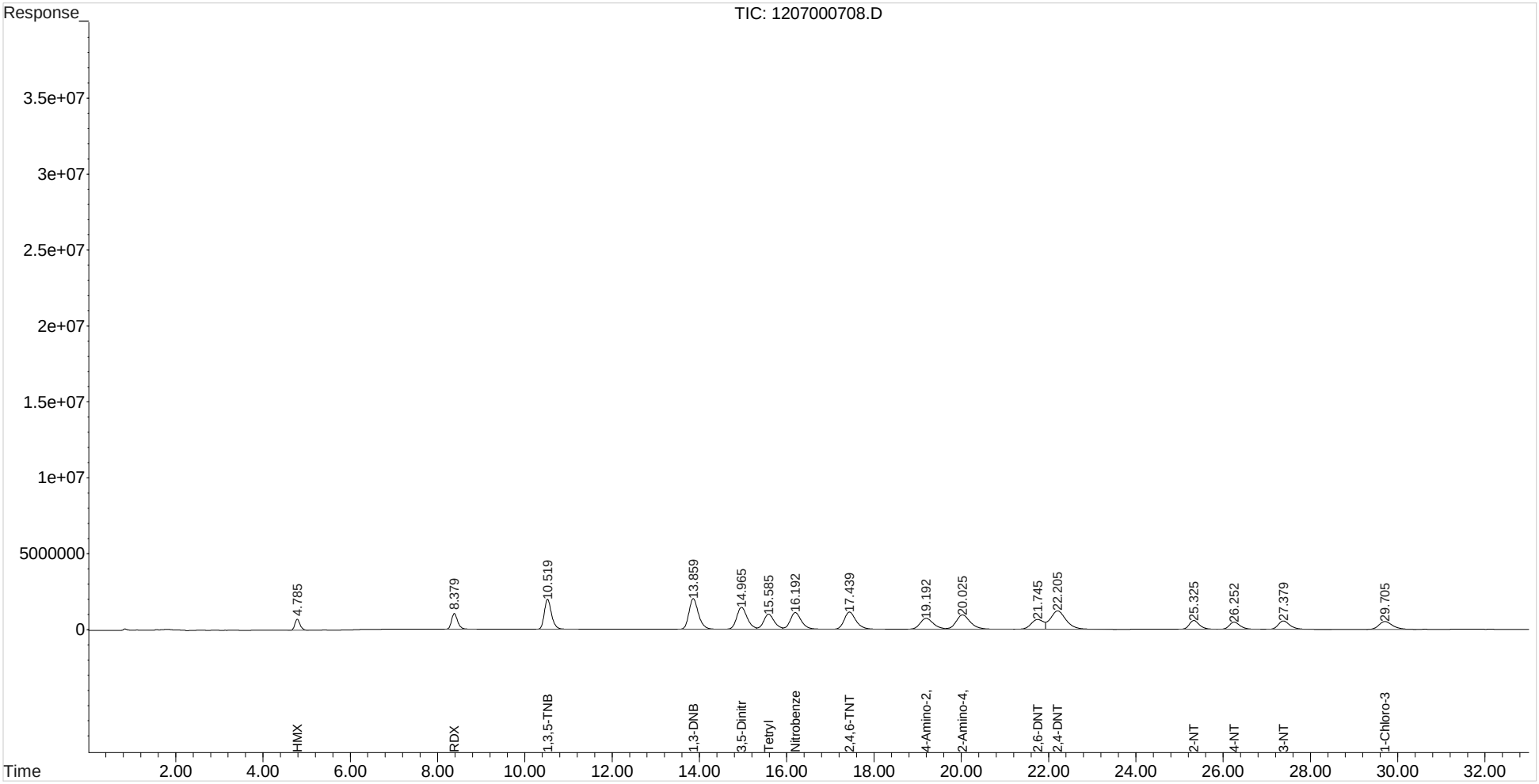
1 12/08/16

2 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:15:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

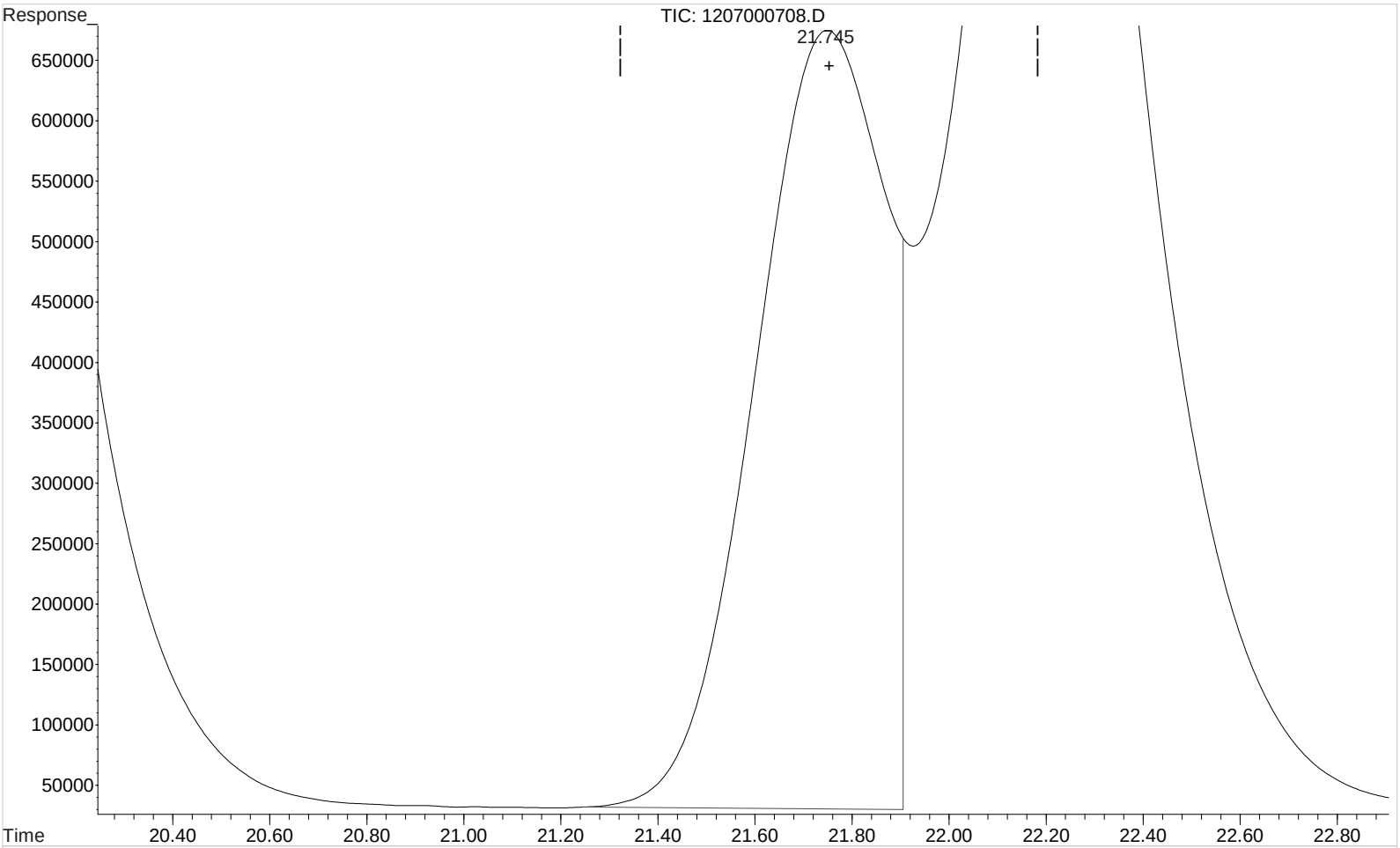


(b)(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.745min 493.038 ug/L

response 12011281

Manual Integration:

Before

12/08/16

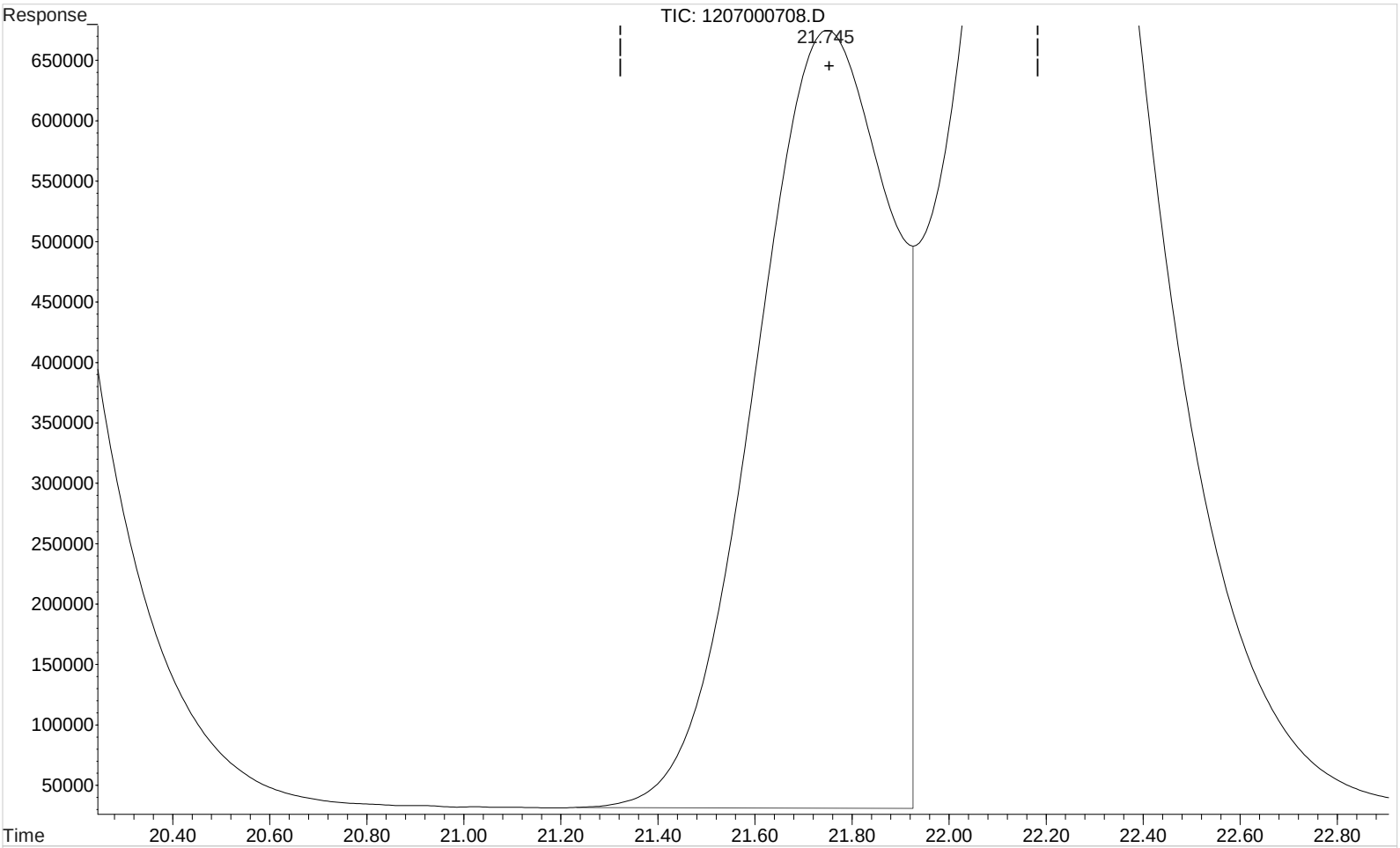
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.745min 515.590 ug/L m

response 12560679

Manual Integration:

After

BLC

12/08/16

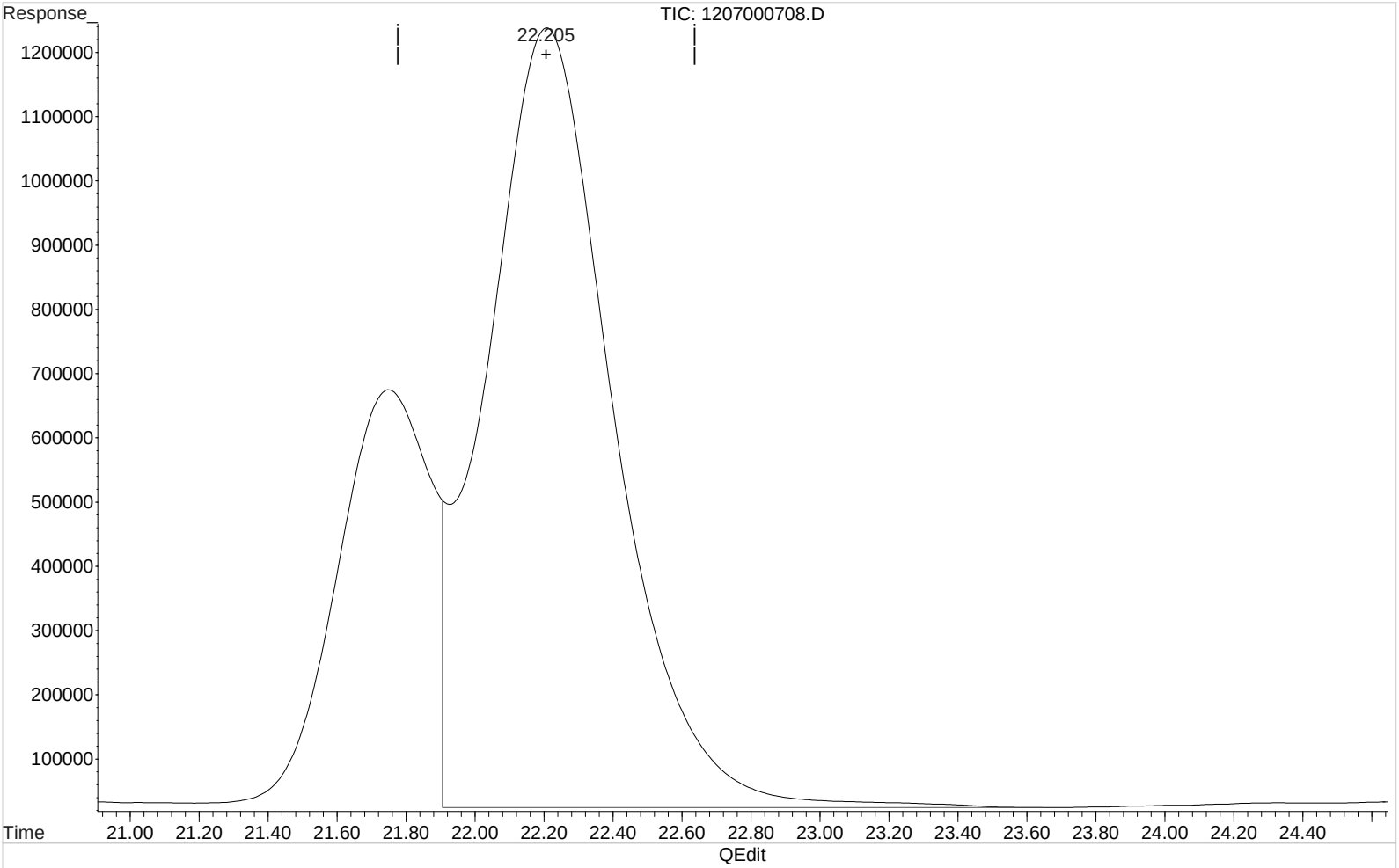
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.205min 531.088 ug/L

response 31157389

Manual Integration:

Before

12/08/16

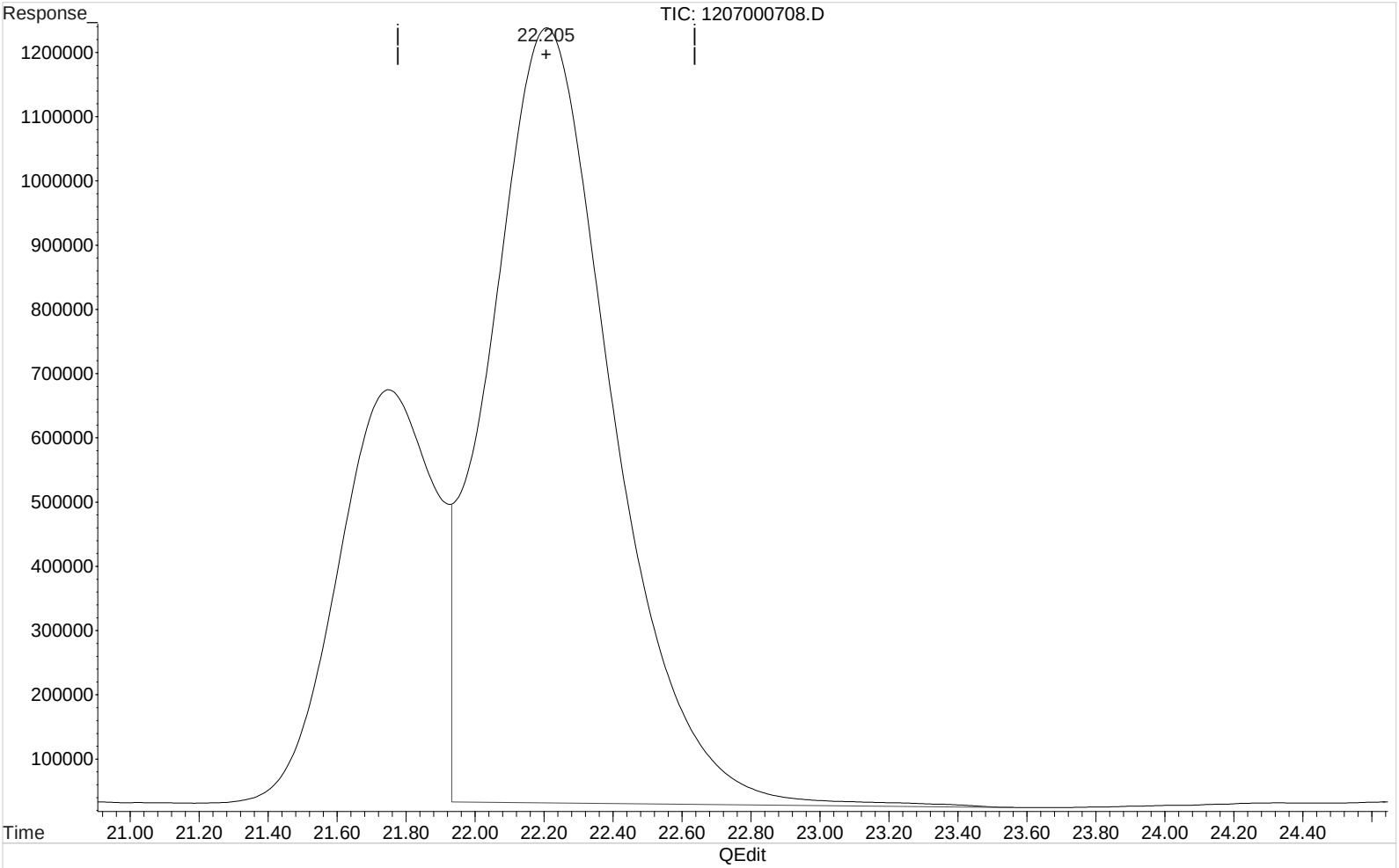
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.205min 510.697 ug/L m

response 29961095

Manual Integration:

After

BLC

12/08/16

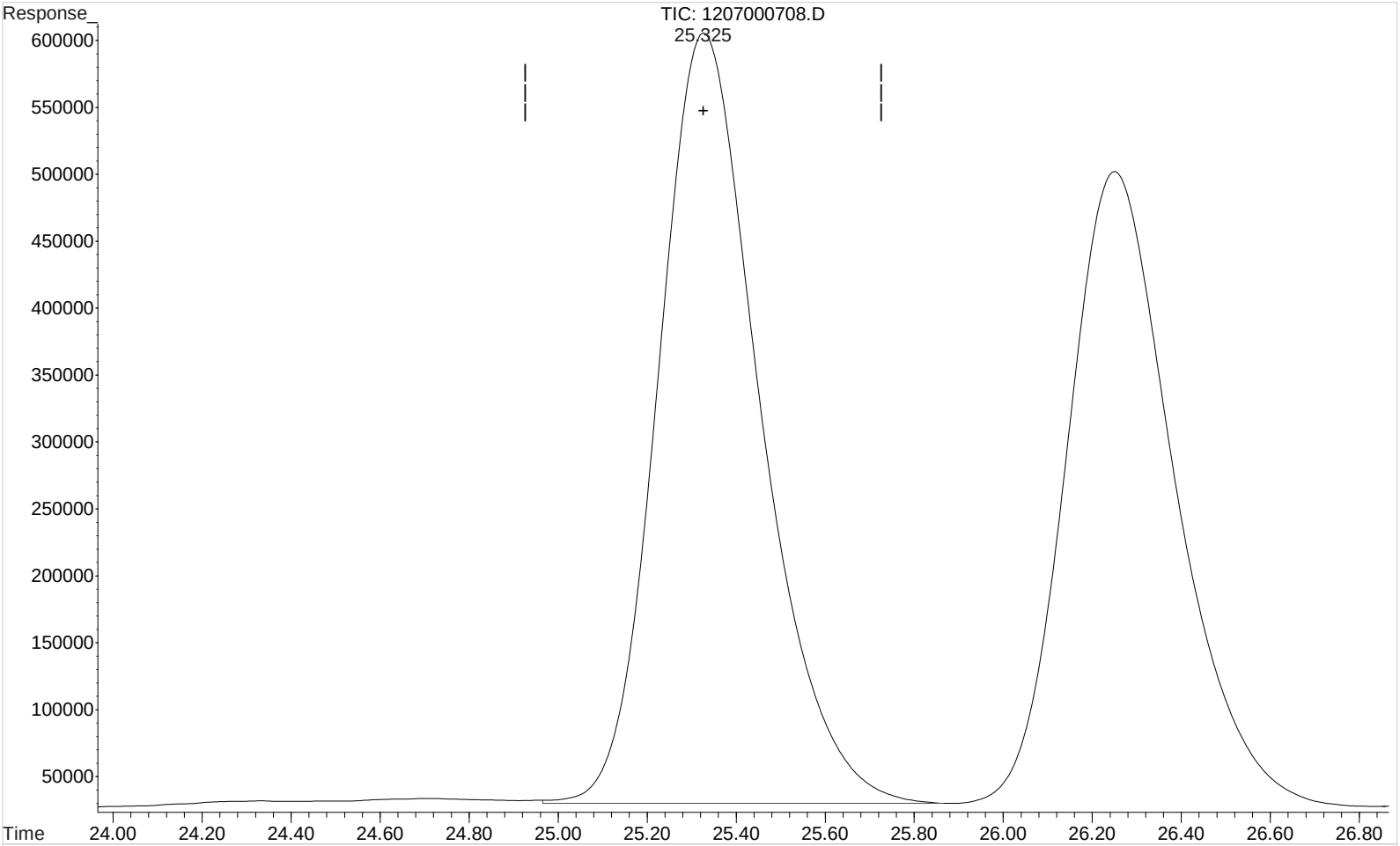
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.325min 510.734 ug/L

response 9171057

Manual Integration:

Before

12/08/16

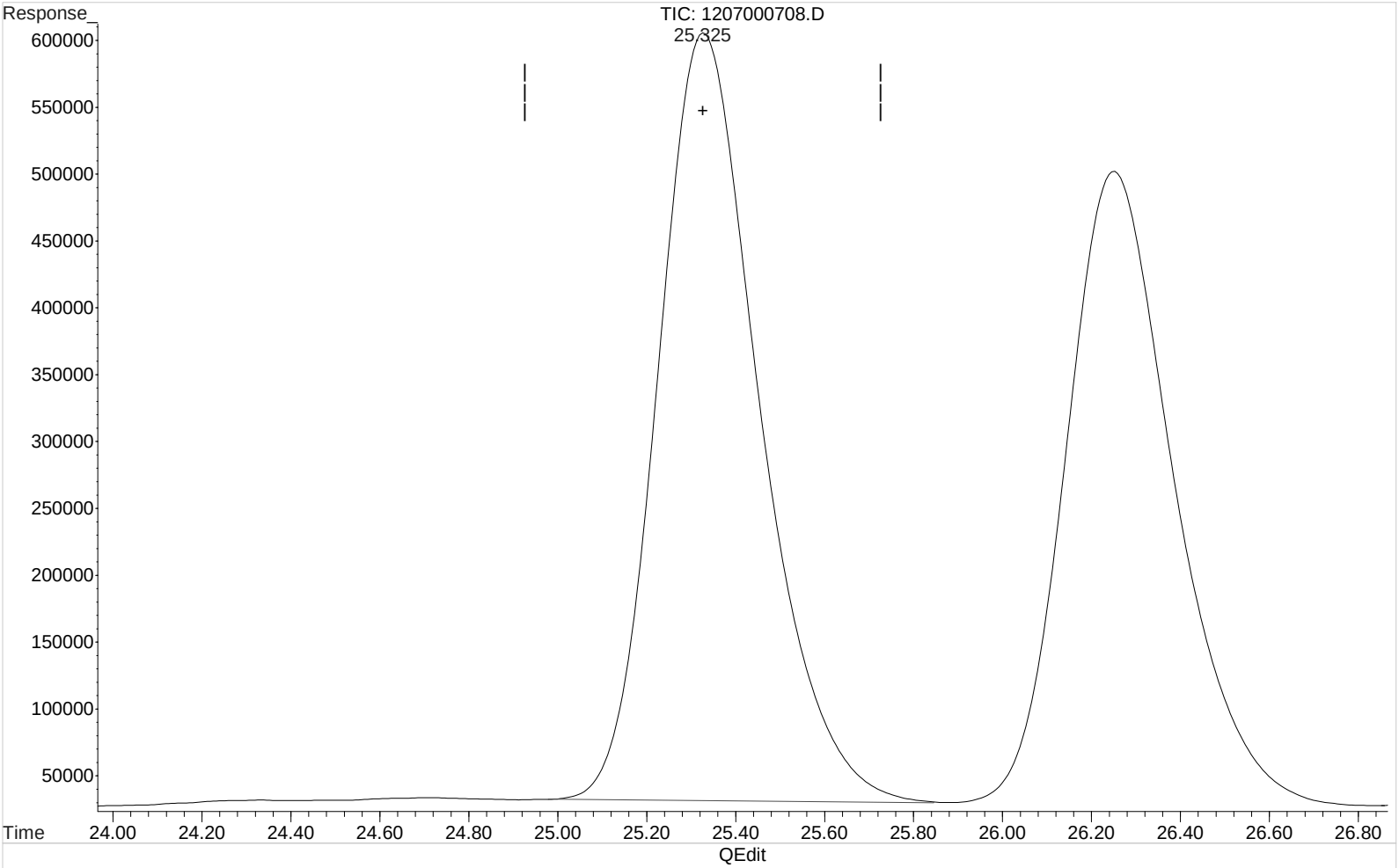
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.325min 507.283 ug/L m

response 9109097

Manual Integration:

After

BLC

12/08/16

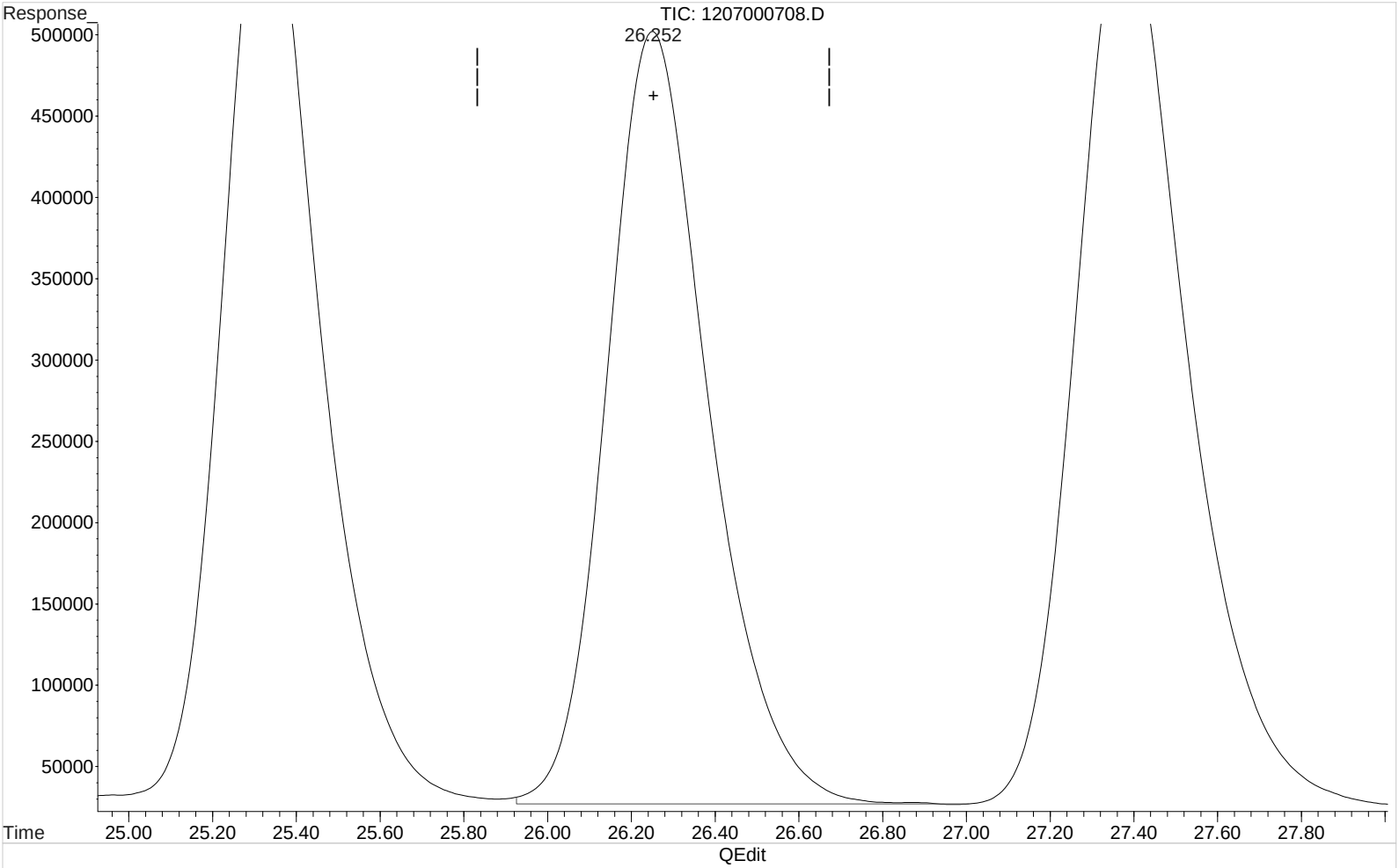
(+) = Expected Retention Time

(b) (6)
1st 12/08/16
2n 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.252min 498.182 ug/L

response 8040347

Manual Integration:

Before

12/08/16

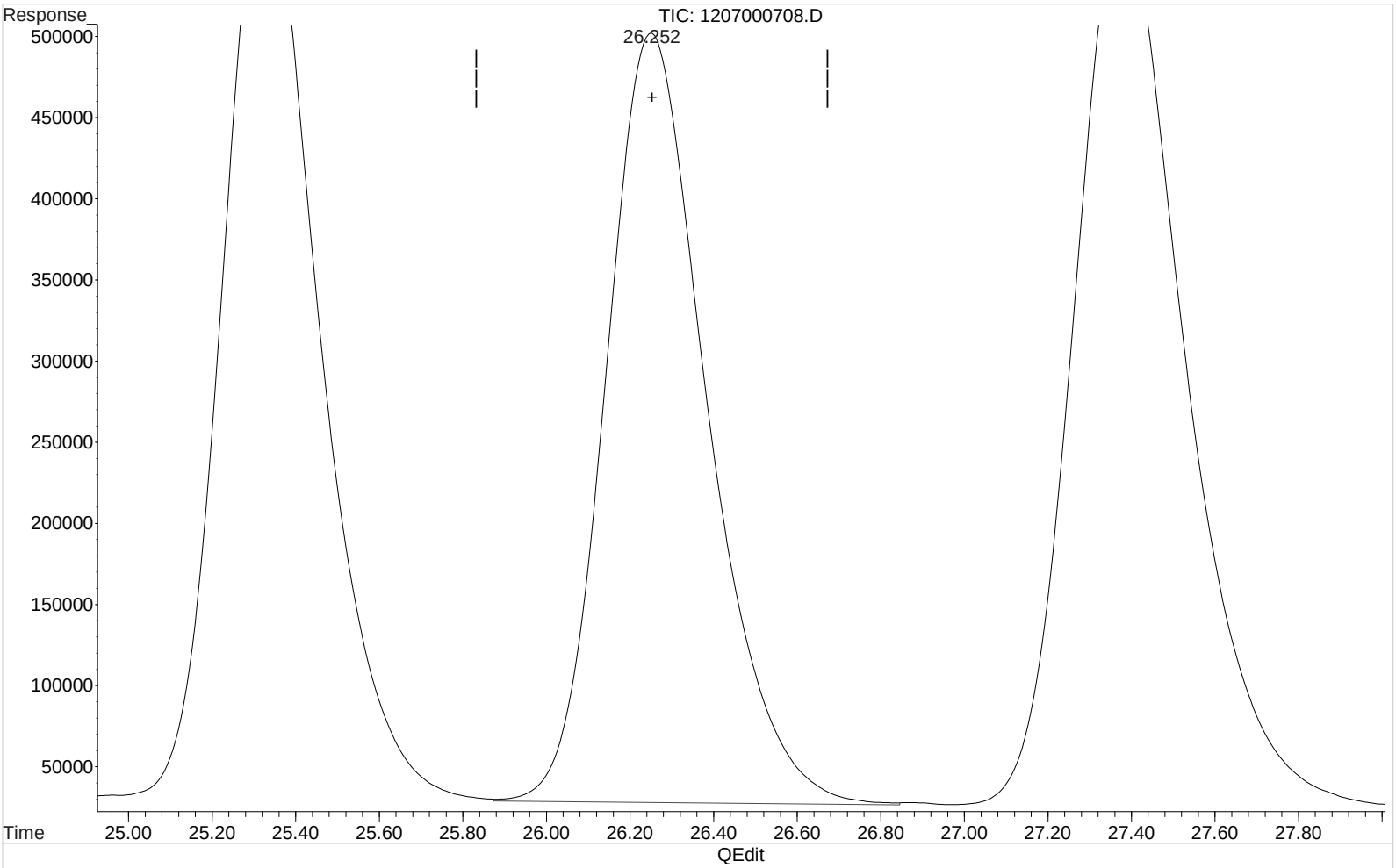
(+) = Expected Retention Time

(b)(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(16) 4-NT (T)

26.252min 496.306 ug/L m

response 8010069

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b)(6)

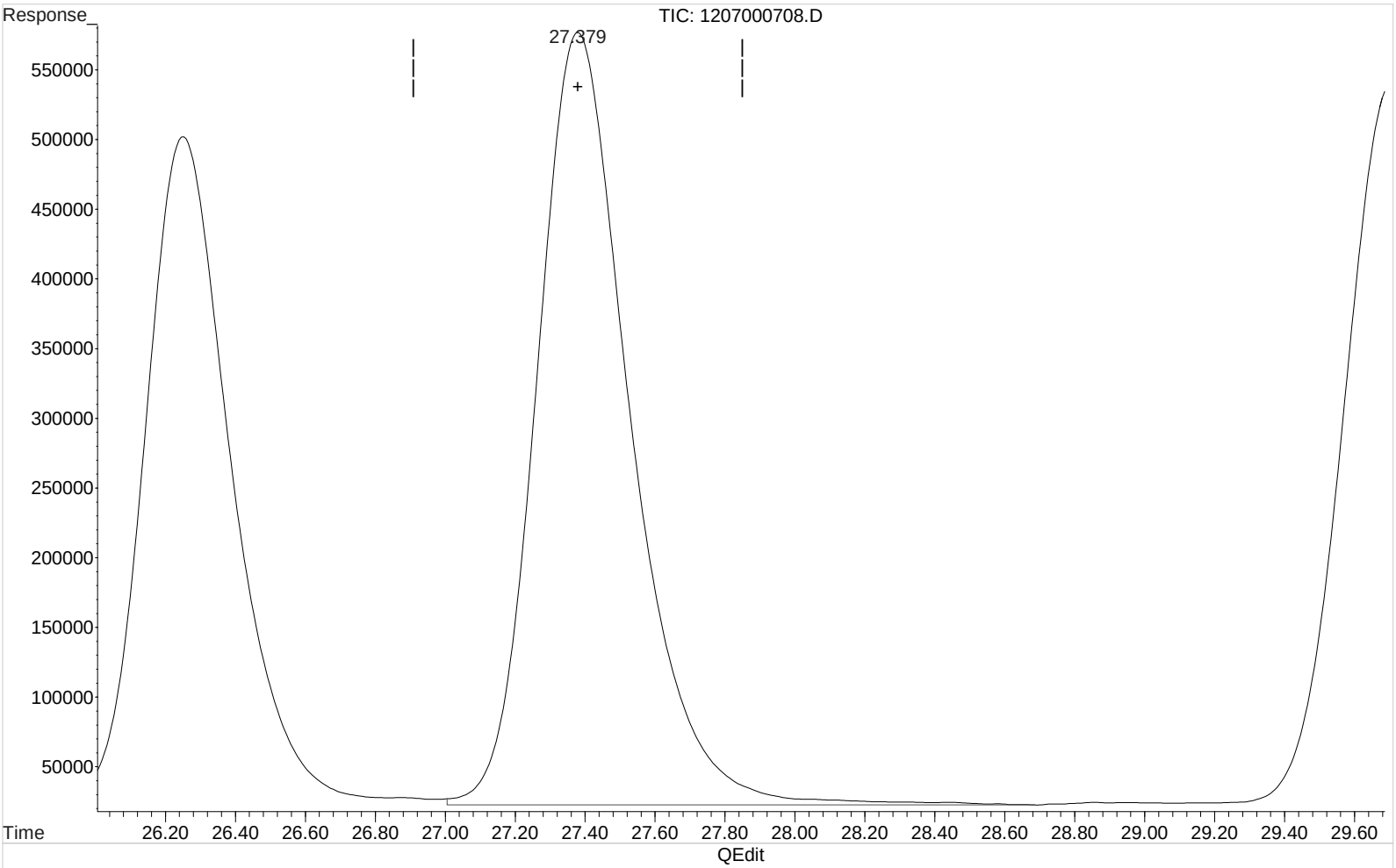
1st 2/08/16

2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.379min 512.791 ug/L

response 10357684

Manual Integration:

Before

12/08/16

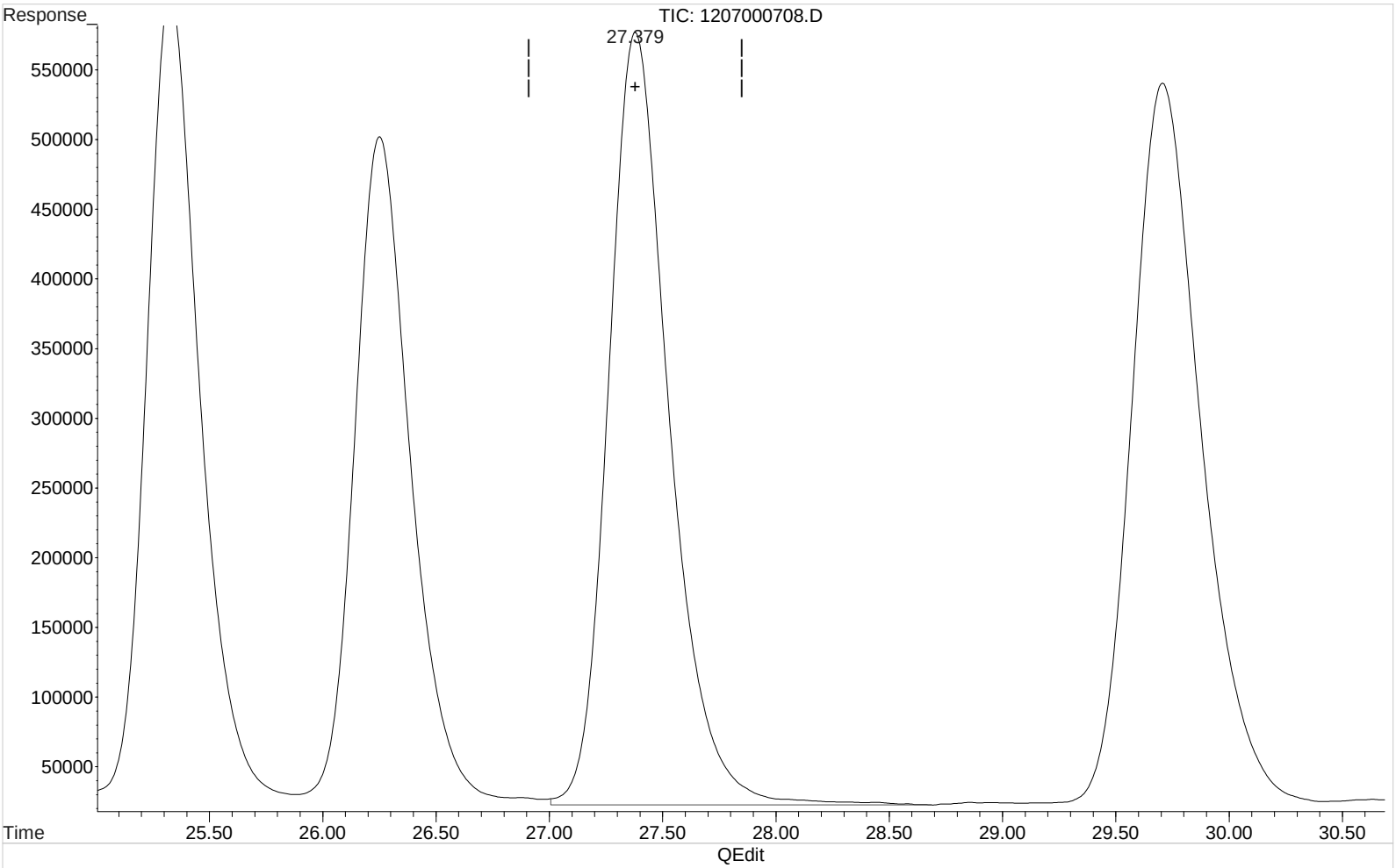
(+) = Expected Retention Time

(b) (6)
1st [redacted] 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.379min 512.791 ug/L

response 10357684

Manual Integration:

Before

12/08/16

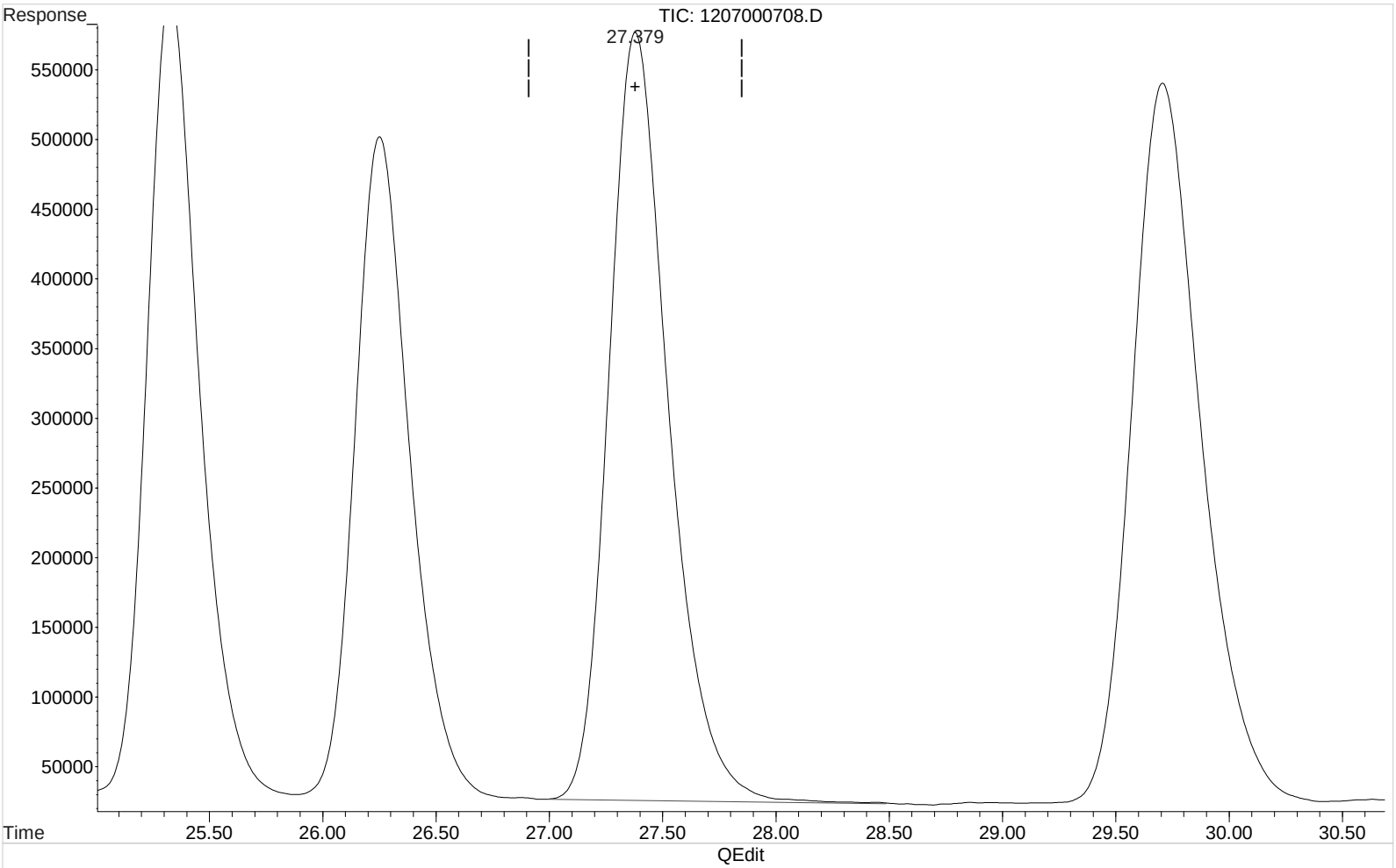
(+) = Expected Retention Time

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.379min 501.548 ug/L m

response 10130589

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000709.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:17:24 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:16:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
18)	S	1-Chloro-3-Nitrobenzene	29.704	21424748	965.714	ug/L	
		Target Compounds					
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	4.784	11949913	996.887	ug/L	
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	8.377	19595263	979.158	ug/L	
5)	T	1,3,5-TNB	10.517	44322350	986.108	ug/L	
6)	T	1,3-DNB	13.864	59271553	972.844	ug/L	
7)	T	3,5-Dinitroaniline	14.970	47161666	983.273	ug/L	
8)	T	Tetryl	15.584	33058166	984.167	ug/L	
9)	T	Nitrobenzene	16.190	38294717	987.582	ug/L	
10)	T	2,4,6-TNT	17.424	41608108	1001.093	ug/L	
11)	T	4-Amino-2,6-DNT	19.184	29562551	1006.339	ug/L	
12)	T	2-Amino-4,6-DNT	20.017	41752958	966.360	ug/L	
13)	T	2,6-DNT	21.744	24453723	997.554	ug/L	m
14)	T	2,4-DNT	22.204	58902914	999.743	ug/L	m
15)	T	2-NT	25.324	17886628	993.209	ug/L	
16)	T	4-NT	26.244	15580571	966.804	ug/L	
17)	T	3-NT	27.377	20277426	1003.280	ug/L	

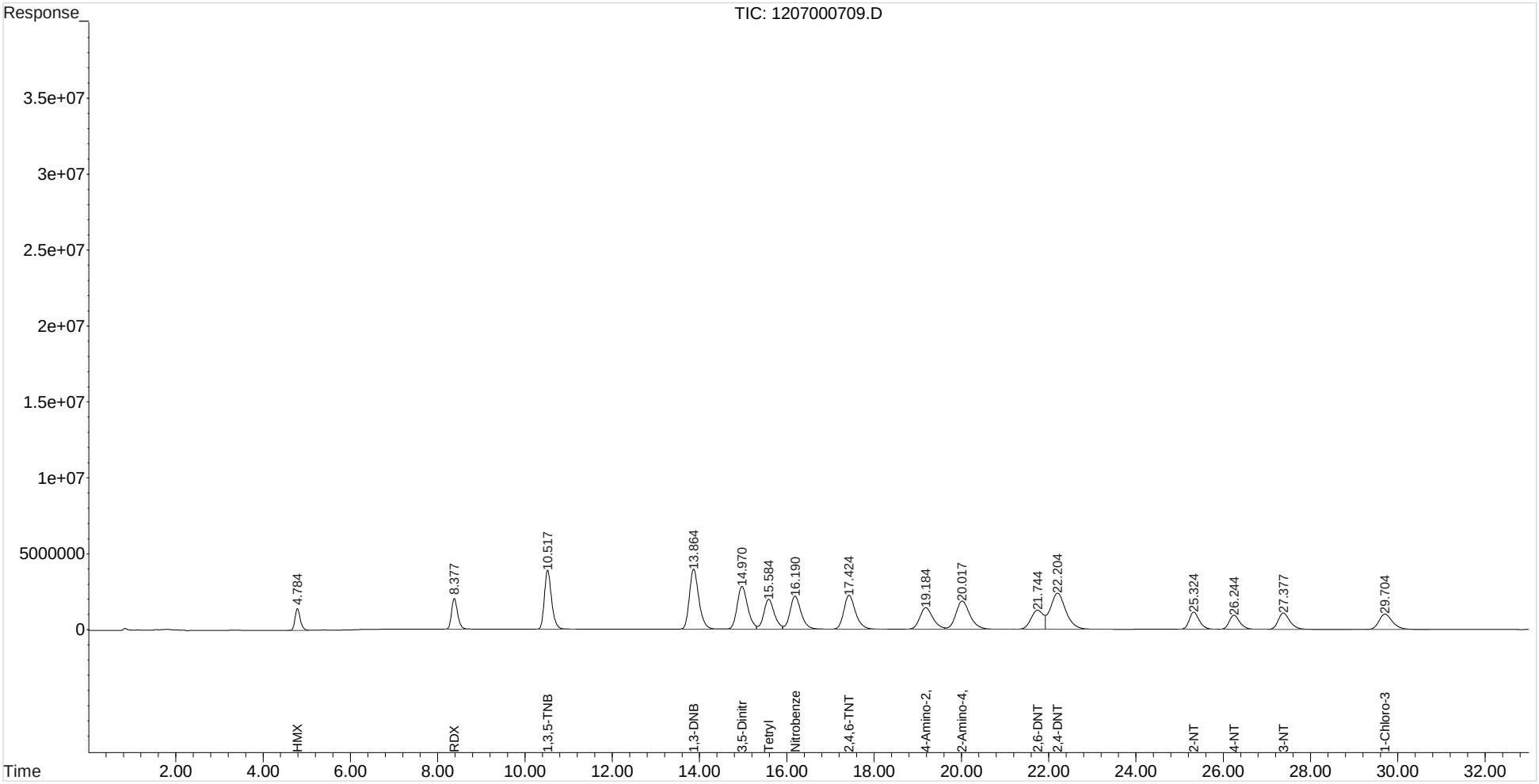
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000709.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:17:24 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:16:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(b)(6)

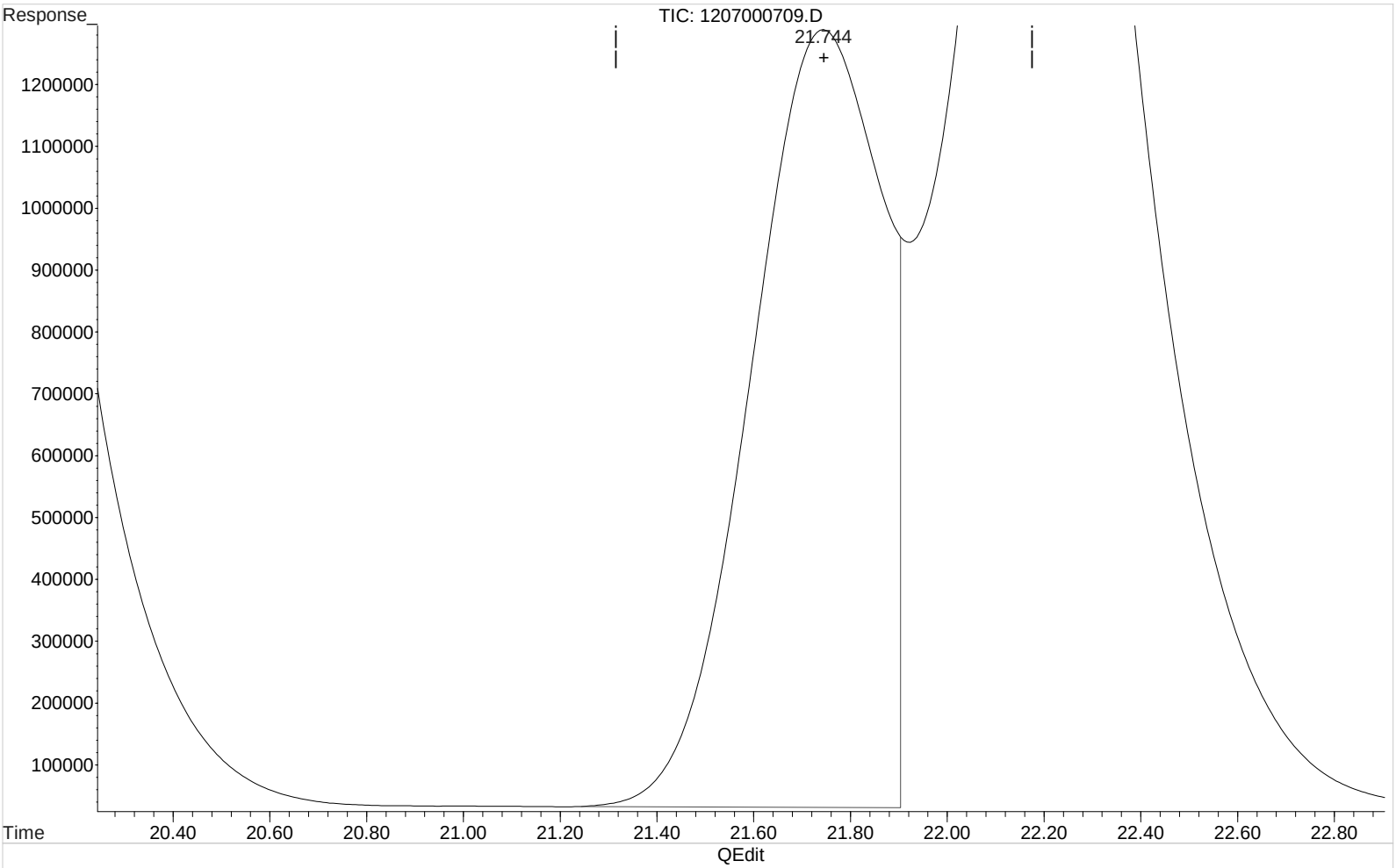
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000709.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:16:36 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:16:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.744min 967.112 ug/L

response 23707470

Manual Integration:

Before

12/08/16

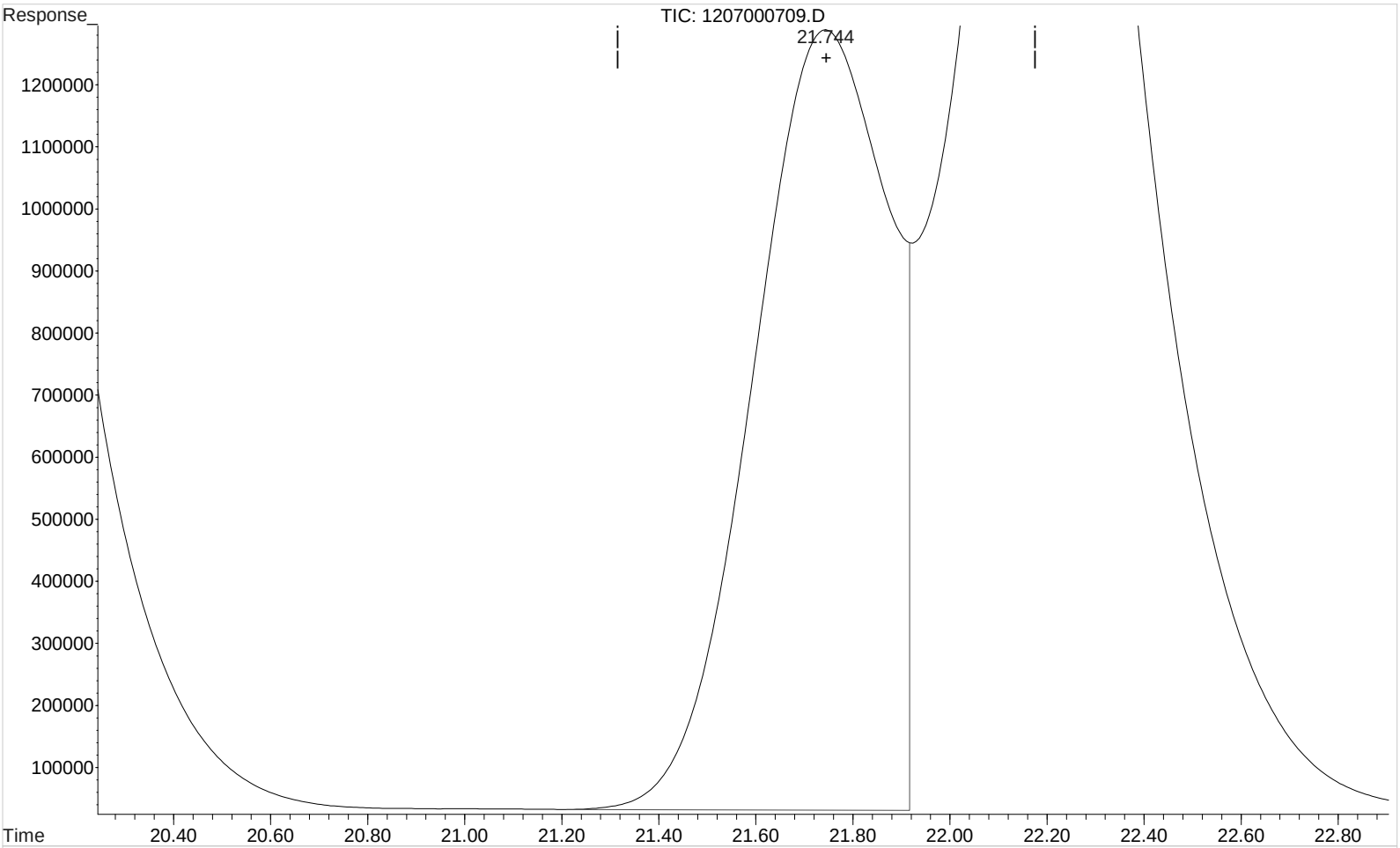
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000709.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:16:36 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:16:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.744min 997.554 ug/L m

response 24453723

Manual Integration:

After

BLC

12/08/16

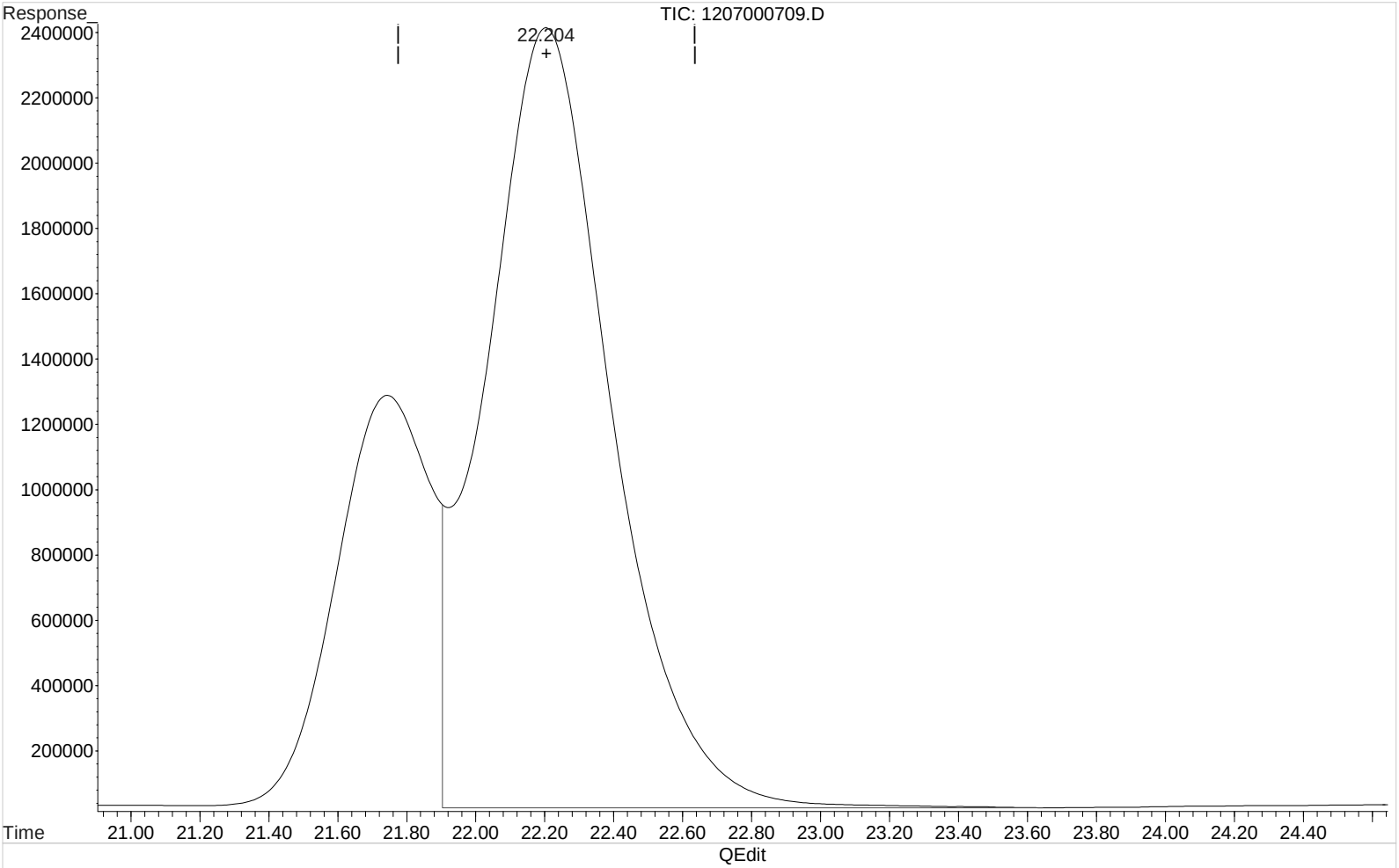
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000709.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:16:36 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:16:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.204min 1026.588 ug/L

response 60484608

Manual Integration:

Before

12/08/16

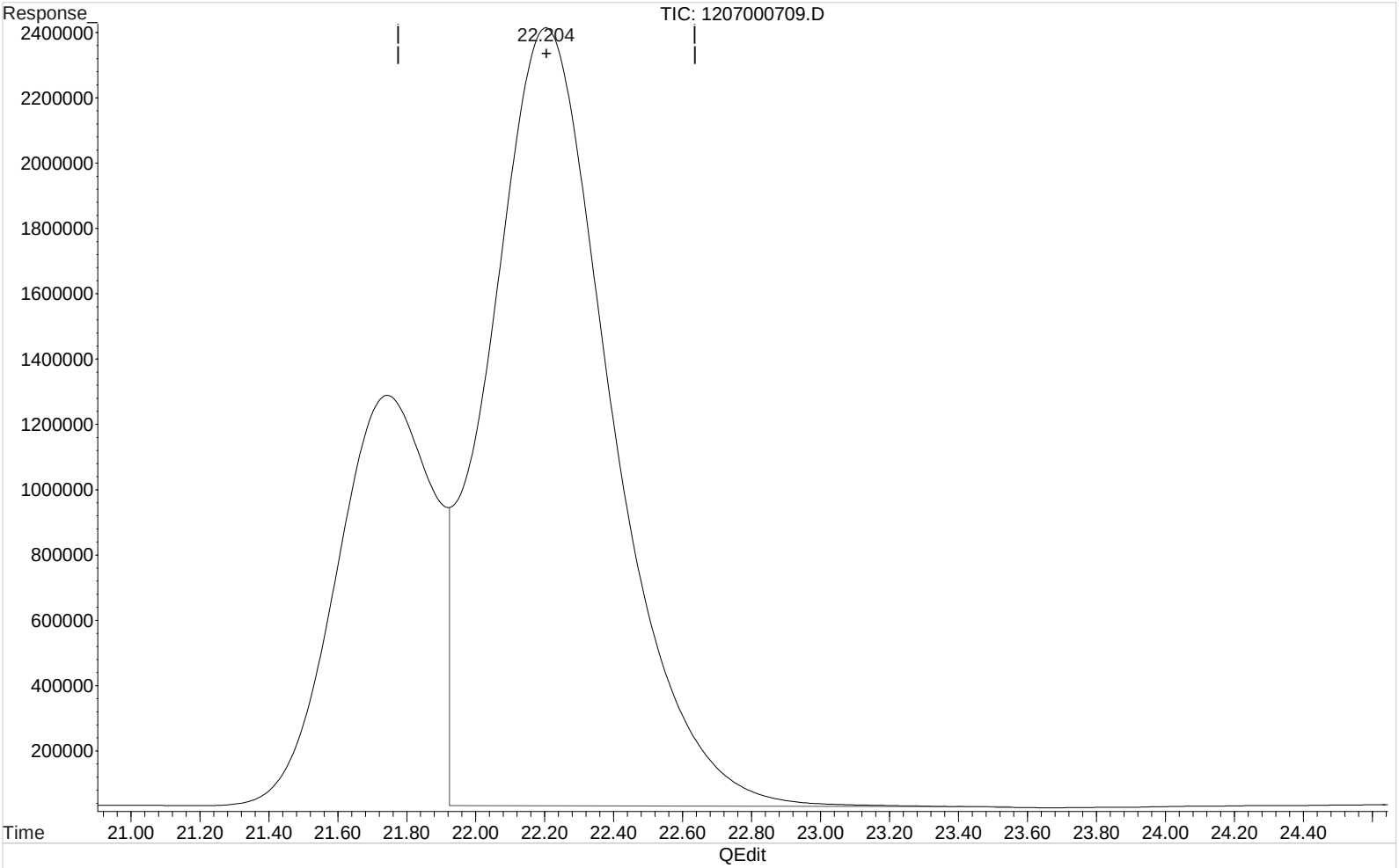
(+) = Expected Retention Time

1st (b) (6) /08/16
2n /09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000709.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:16:36 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:16:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.204min 999.743 ug/L m

response 58902914

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:19:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
18) S	1-Chloro-3-Nitrobenzene	29.700	42294963	1917.388	ug/L	
	Target Compounds					
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2) T	HMX	4.787	23722211	1979.985	ug/L	m
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4) T	RDX	8.380	38913573	1951.255	ug/L	
5) T	1,3,5-TNB	10.520	87503916	1951.353	ug/L	
6) T	1,3-DNB	13.860	117702258	1940.670	ug/L	
7) T	3,5-Dinitroaniline	14.967	93512376	1955.089	ug/L	m
8) T	Tetryl	15.587	65318779	1949.736	ug/L	
9) T	Nitrobenzene	16.200	76224644	1969.834	ug/L	
10) T	2,4,6-TNT	17.440	82170115	1976.657	ug/L	
11) T	4-Amino-2,6-DNT	19.200	58780326	1998.831	ug/L	
12) T	2-Amino-4,6-DNT	20.034	81844649	1904.951	ug/L	
13) T	2,6-DNT	21.754	47948148	1956.773	ug/L	m
14) T	2,4-DNT	22.214	117648318	1996.898	ug/L	m
15) T	2-NT	25.327	35281189	1961.314	ug/L	
16) T	4-NT	26.247	30767210	1919.786	ug/L	
17) T	3-NT	27.380	39399716	1948.341	ug/L	

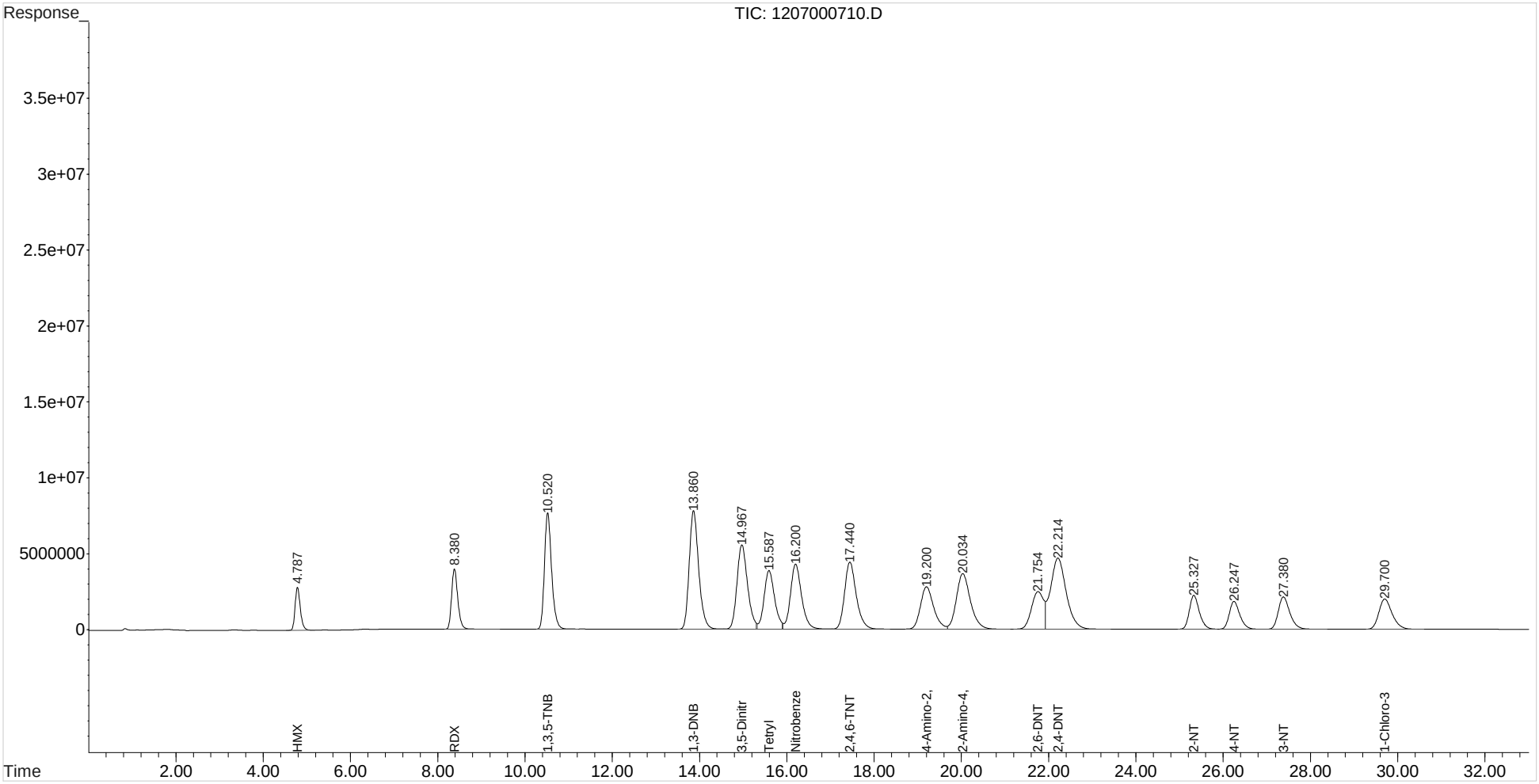
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:19:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

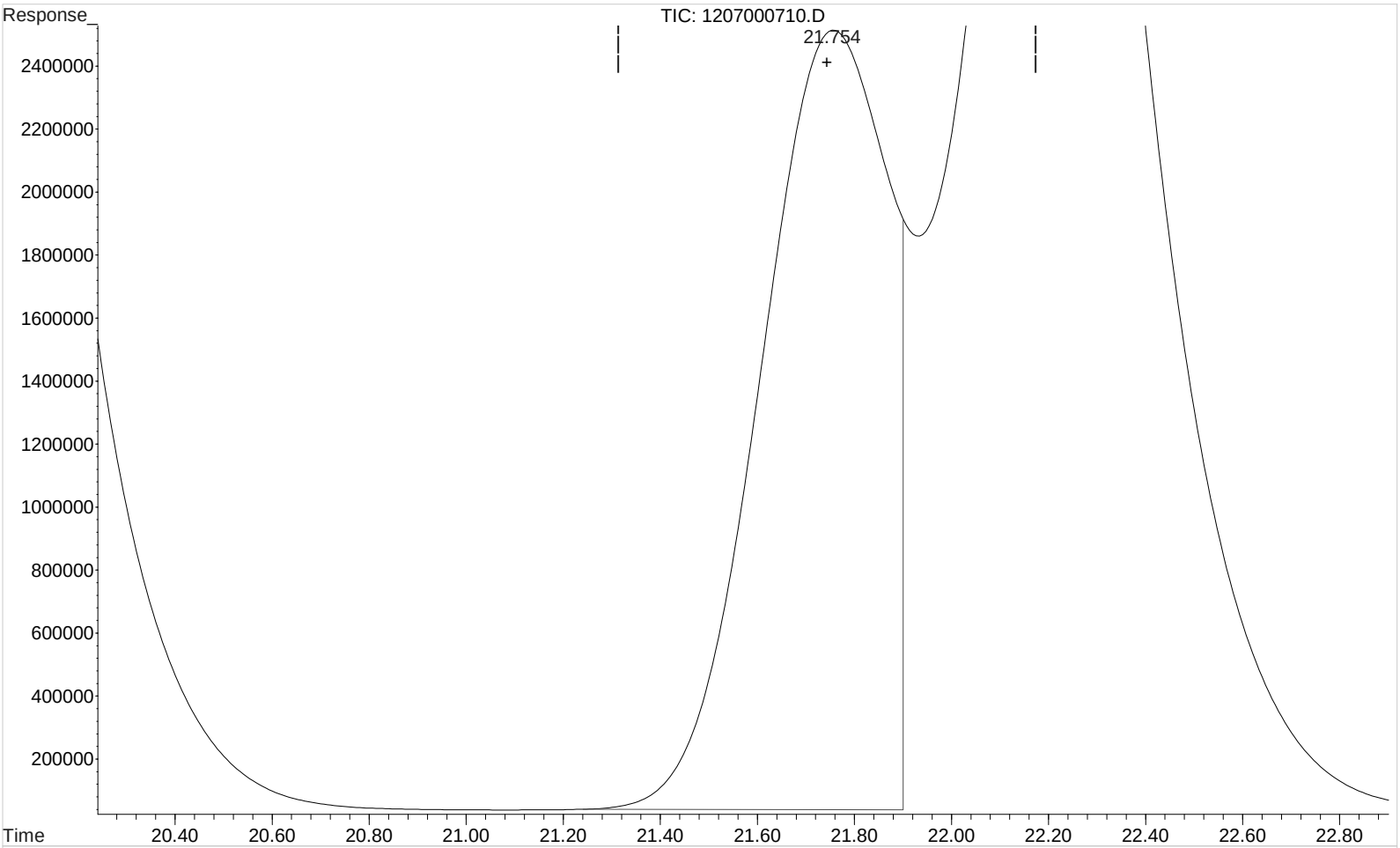


(b) (6)
1st 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.754min 1840.068 ug/L

response 45088454

Manual Integration:

Before

12/08/16

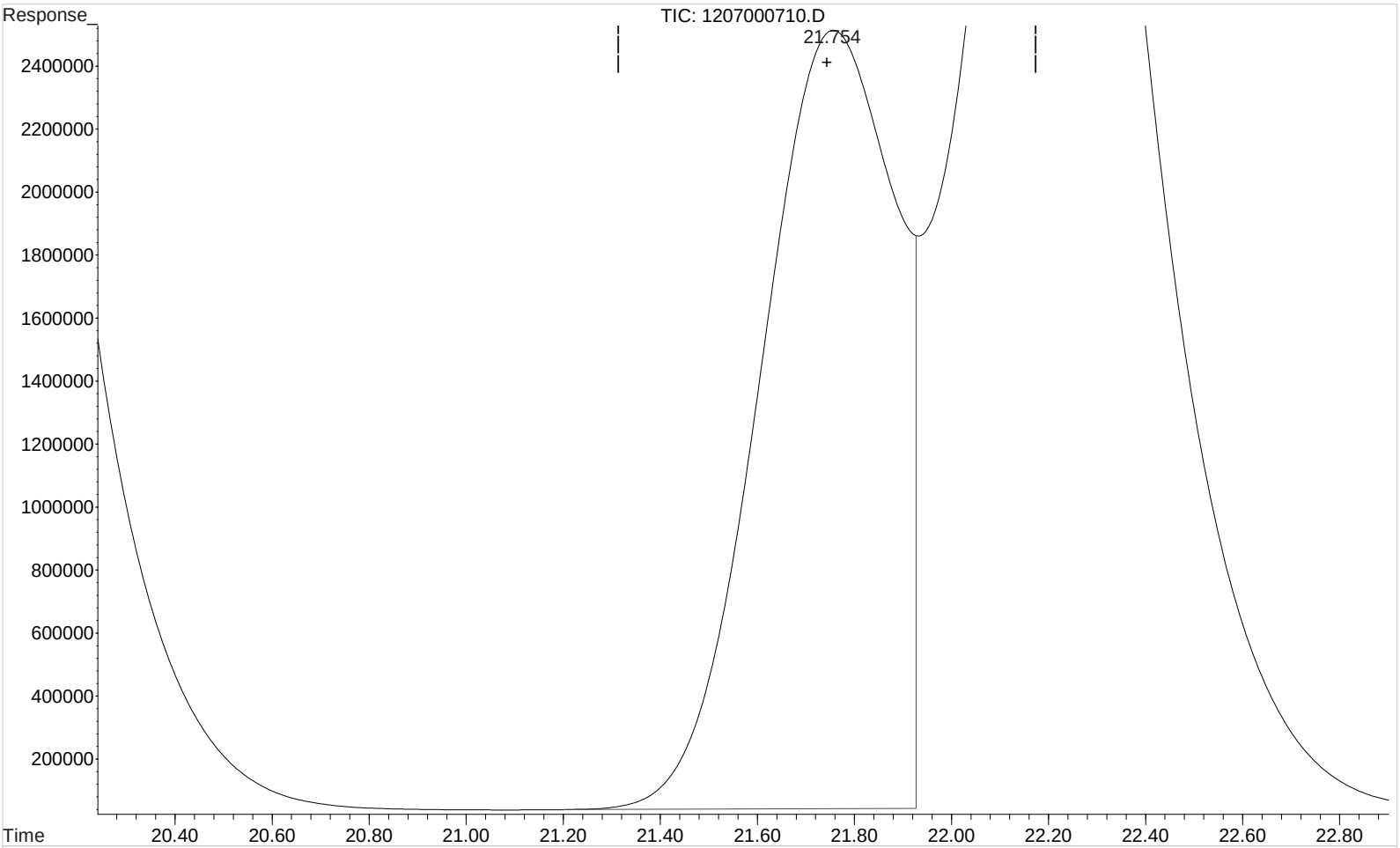
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.754min 1956.773 ug/L m

response 47948148

Manual Integration:

After

WP

12/08/16

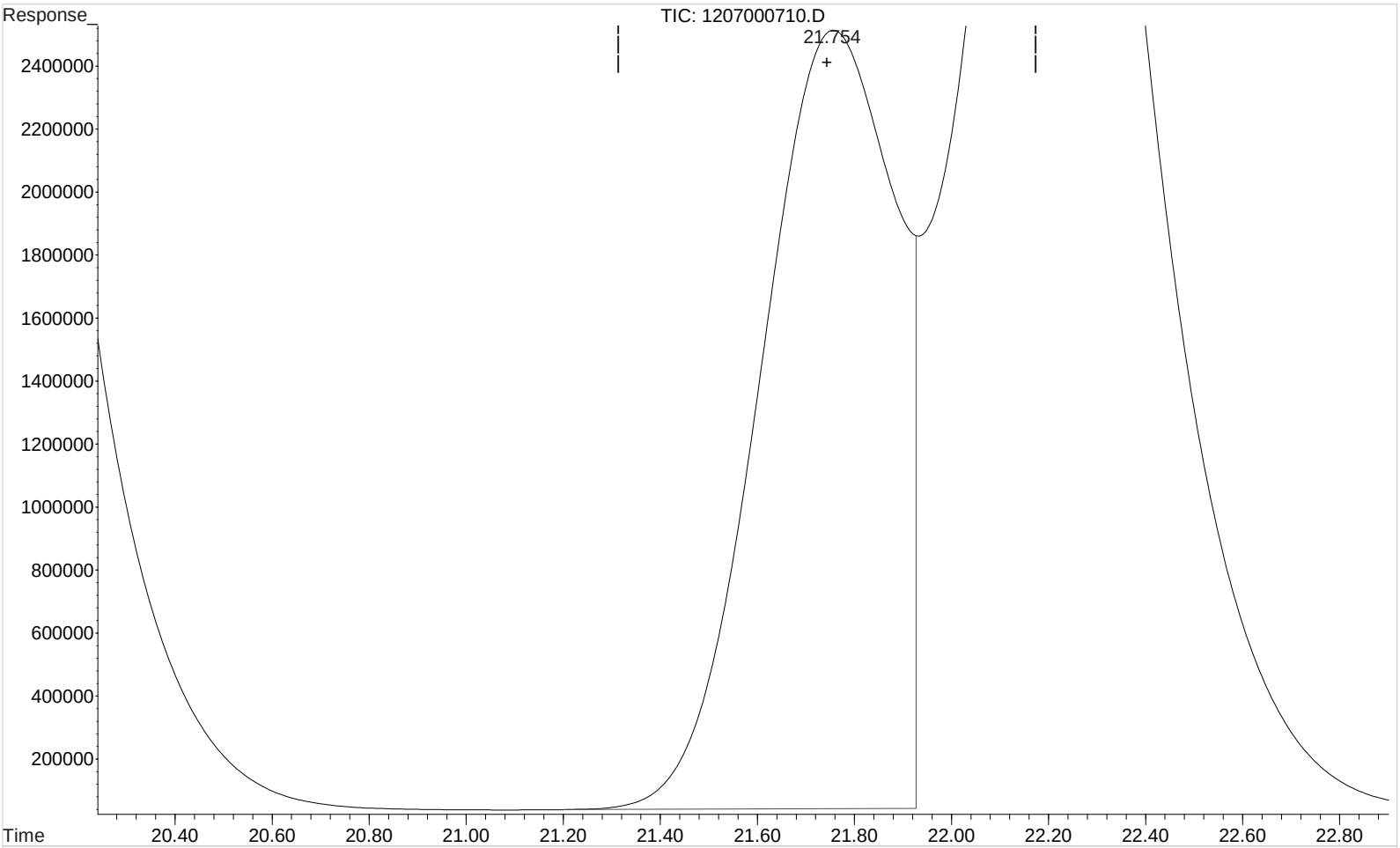
(+) = Expected Retention Time

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.754min 1956.773 ug/L m

response 47948148

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

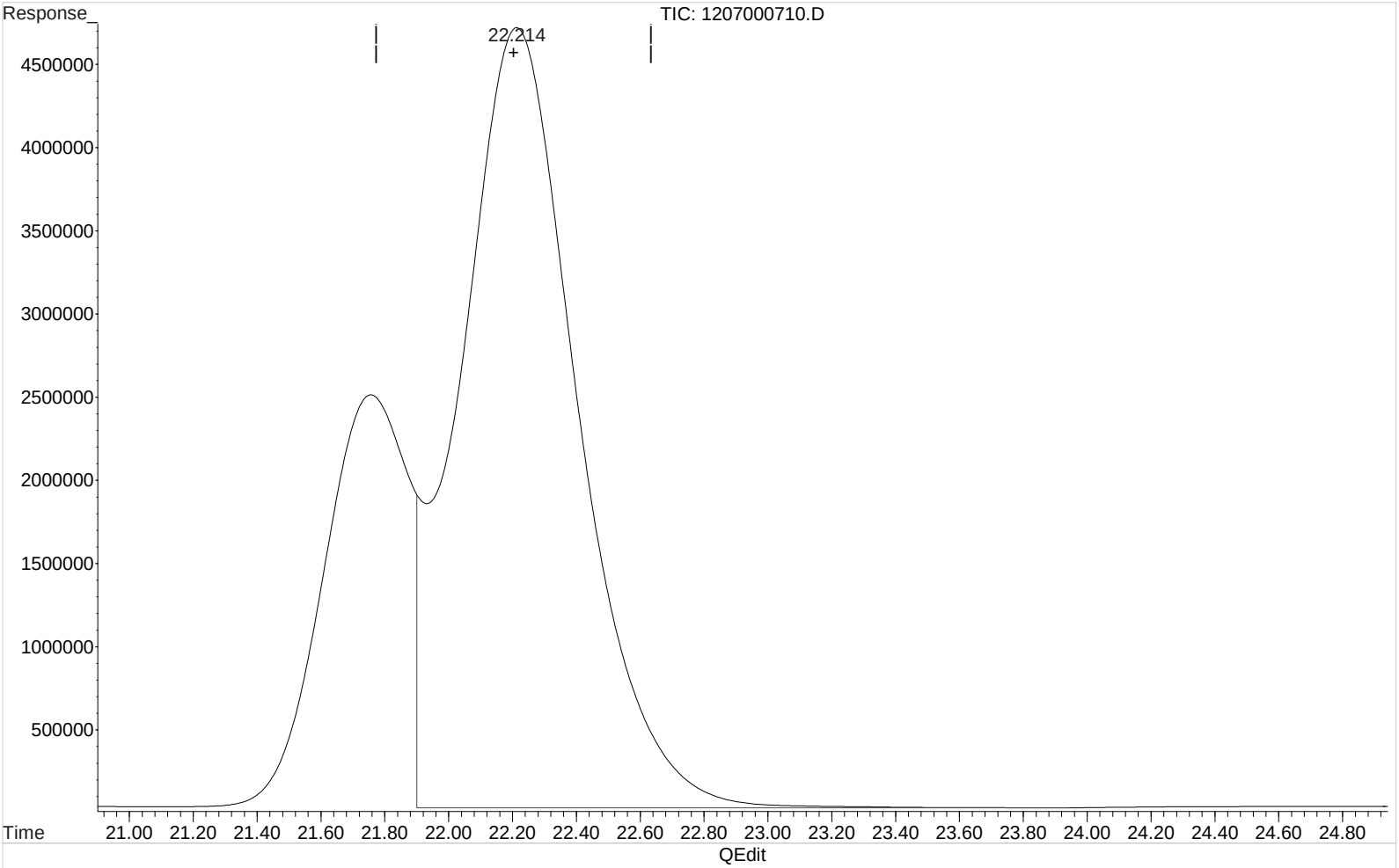
1st (b) (6) 2/08/16

2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.214min 2045.708 ug/L

response 120524006

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

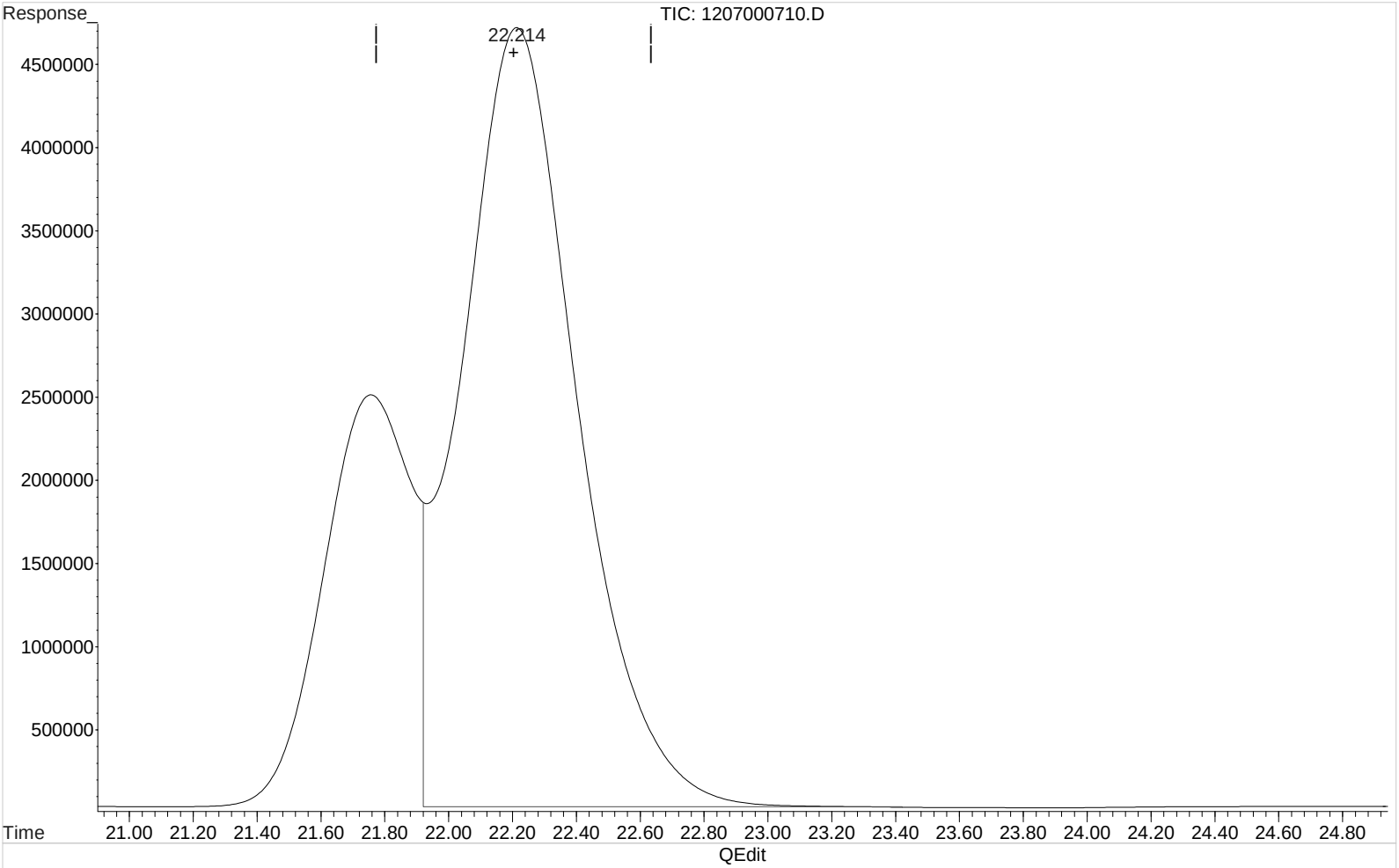
Quantitation Report (Qedit)

(b) (6)
1st 12/08/16
2n 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.214min 1996.898 ug/L m

response 117648318

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

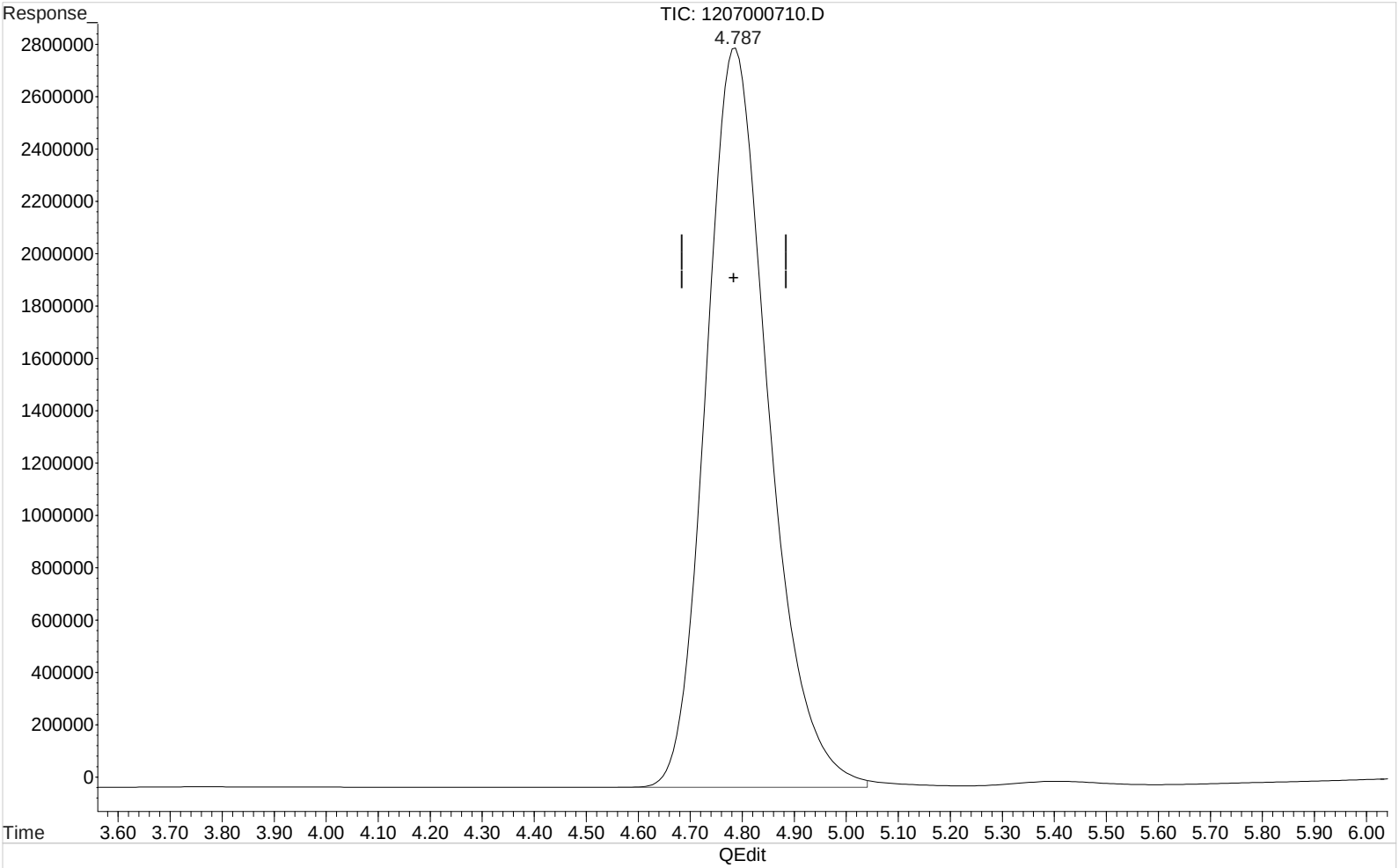
Quantitation Report (Qedit)

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(2) HMX (T)

4.787min 1973.169 ug/L

response 23640553

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

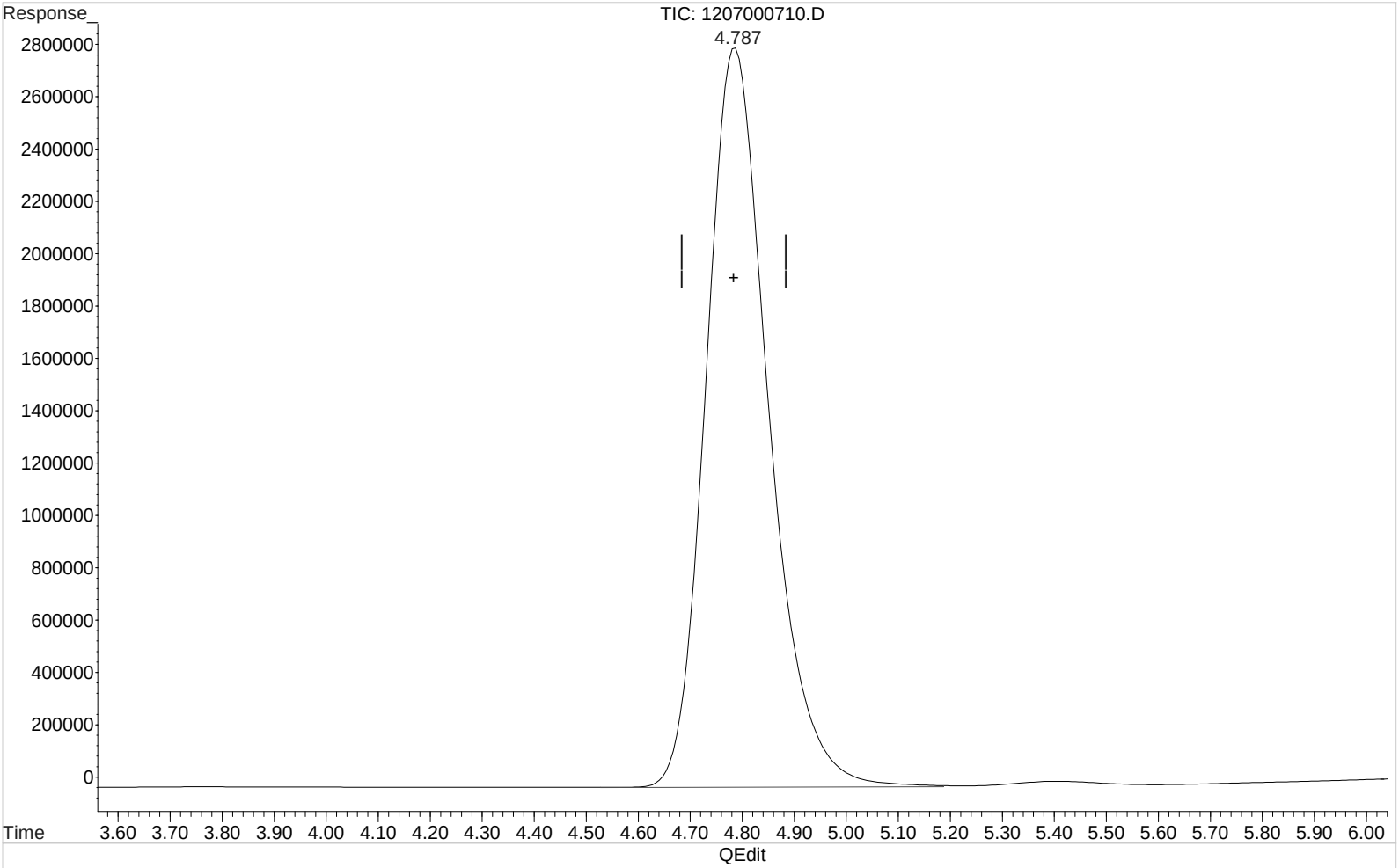
Quantitation Report (Qedit)

(b) (6)
1st [redacted] /08/16
2nd [redacted] /09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(2) HMX (T)

4.787min 1979.985 ug/L m

response 23722211

Manual Integration:

After

BLC

12/08/16

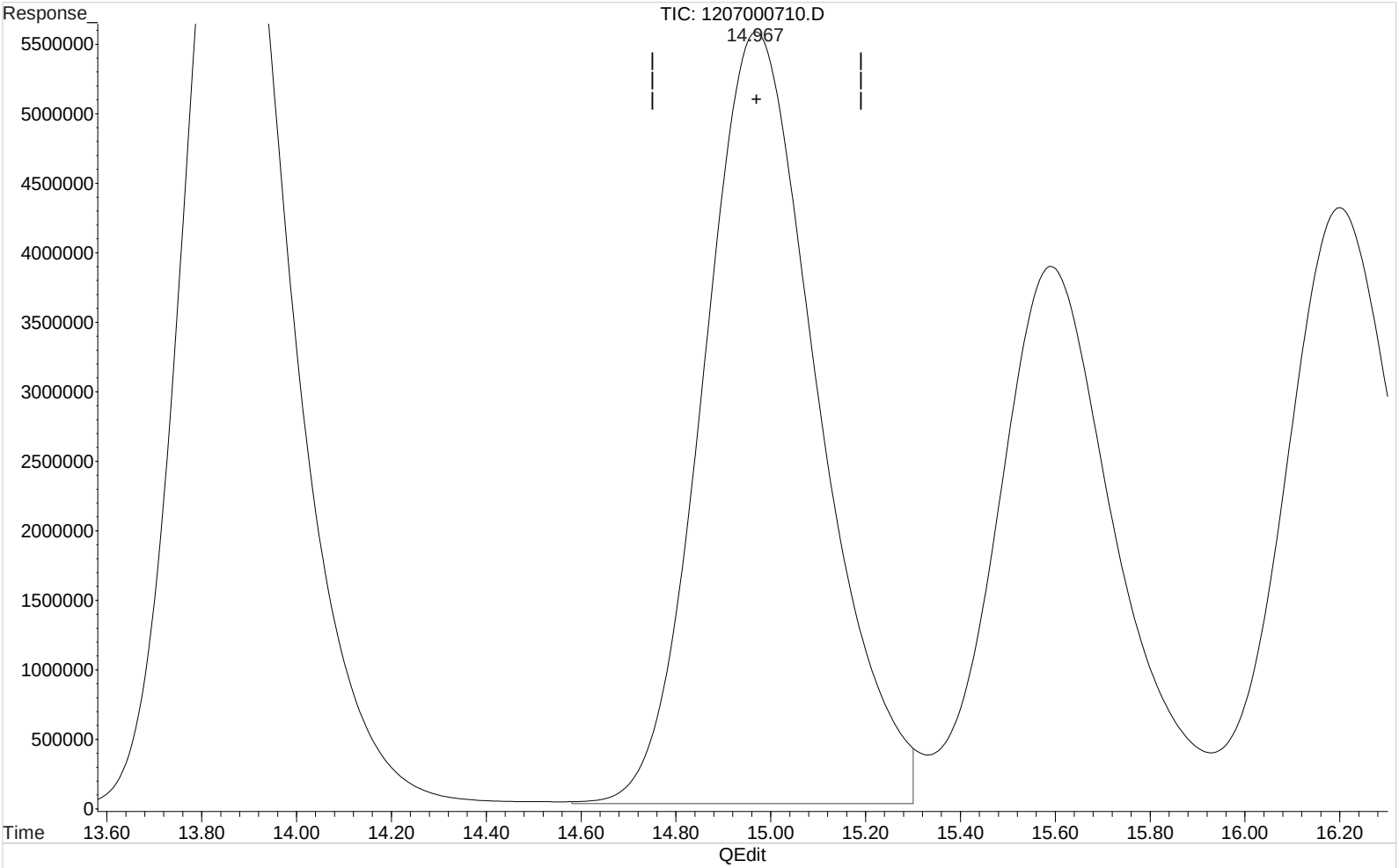
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(7) 3,5-Dinitroaniline (T)

14.967min 1950.402 ug/L

response 93288206

Manual Integration:

Before

12/08/16

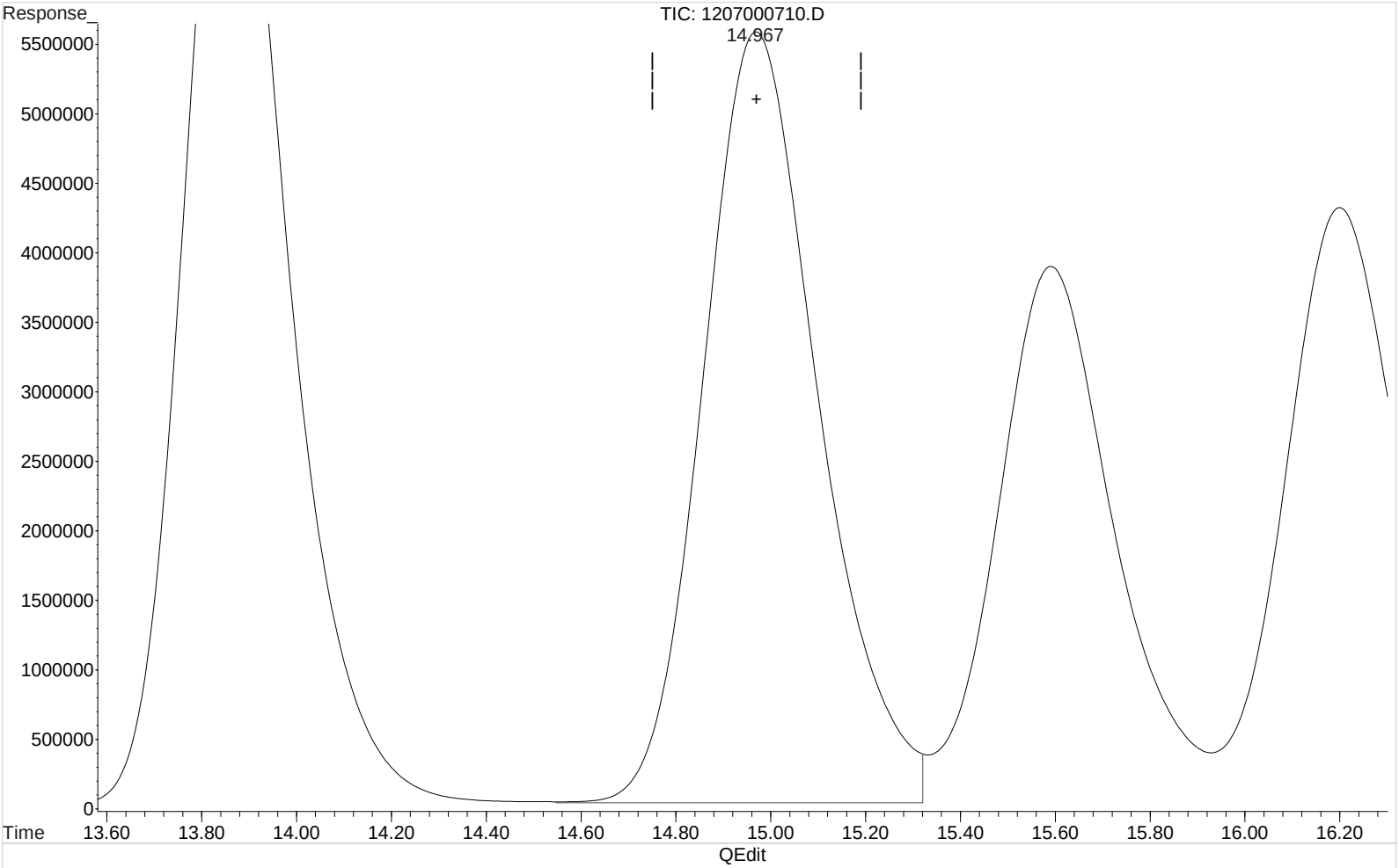
(+) = Expected Retention Time

(b) (6)
1st /08/16
2nd /09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.967min 1955.089 ug/L m

response 93512376

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000711.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:19:50 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:19:28 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
18) S	1-Chloro-3-Nitrobenzene	29.688	109933967	5013.299	ug/L
	Target Compounds				
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2) T	HMX	4.795	61046558	5102.573	ug/L
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4) T	RDX	8.375	100409384	5052.450	ug/L
5) T	1,3,5-TNB	10.501	226131460	5060.356	ug/L
6) T	1,3-DNB	13.835	304056740	5034.610	ug/L
7) T	3,5-Dinitroaniline	14.941	242816511	5092.969	ug/L
8) T	Tetryl	15.568	169129908	5066.642	ug/L
9) T	Nitrobenzene	16.168	196342707	5084.940	ug/L
10) T	2,4,6-TNT	17.421	212586394	5122.448	ug/L
11) T	4-Amino-2,6-DNT	19.175	150900677	5131.820	ug/L
12) T	2-Amino-4,6-DNT	20.001	212629441	4982.823	ug/L
13) T	2,6-DNT	21.735	123855451	5070.219	ug/L
14) T	2,4-DNT	22.188	303841514	5158.381	ug/L
15) T	2-NT	25.308	91795667	5117.146	ug/L
16) T	4-NT	26.235	79961280	5018.107	ug/L
17) T	3-NT	27.361	102384406	5081.725	ug/L

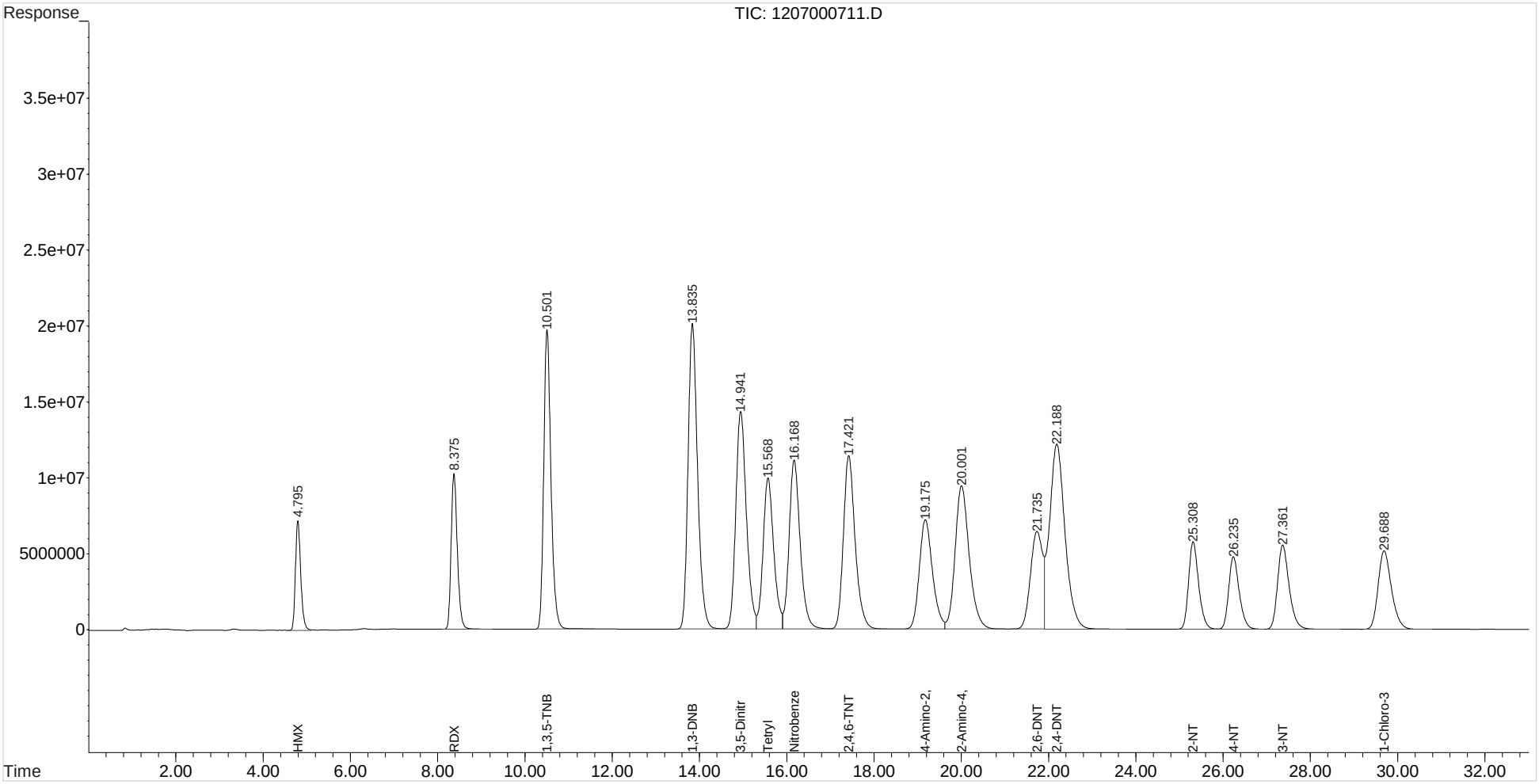
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000711.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:19:50 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:19:28 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000712.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:21:24 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:20:15 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
18)	S	1-Chloro-3-Nitrobenzene	29.704	188214338	8580.252	ug/L	
		Target Compounds					
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	4.784	116952177	9750.438	ug/L	m
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	8.378	193516345	9724.702	ug/L	
5)	T	1,3,5-TNB	10.518	436043077	9743.045	ug/L	
6)	T	1,3-DNB	13.844	585109637	9679.945	ug/L	
7)	T	3,5-Dinitroaniline	14.958	466801971	9768.261	ug/L	
8)	T	Tetryl	15.584	328561092	9826.366	ug/L	
9)	T	Nitrobenzene	16.191	378180319	9773.468	ug/L	
10)	T	2,4,6-TNT	17.438	410119977	9852.027	ug/L	
11)	T	4-Amino-2,6-DNT	19.191	290587885	9849.834	ug/L	
12)	T	2-Amino-4,6-DNT	20.018	410849938	9632.119	ug/L	
13)	T	2,6-DNT	21.751	239813080	9799.925	ug/L	m
14)	T	2,4-DNT	22.198	592003966	10010.937	ug/L	
15)	T	2-NT	25.318	175973088	9780.967	ug/L	
16)	T	4-NT	26.244	153399761	9622.509	ug/L	
17)	T	3-NT	27.371	196431690	9729.768	ug/L	

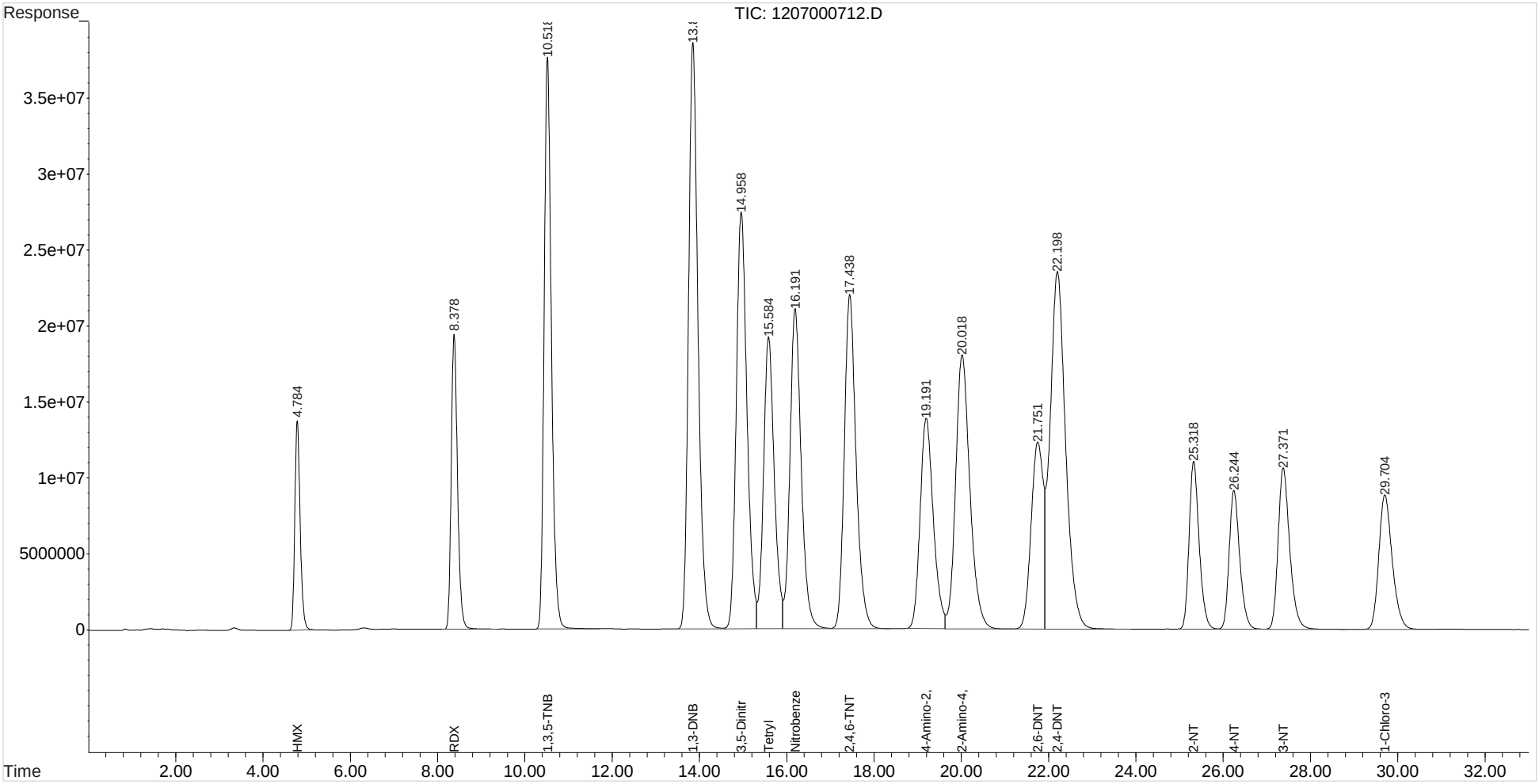
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000712.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:21:24 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:20:15 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(b)(6)

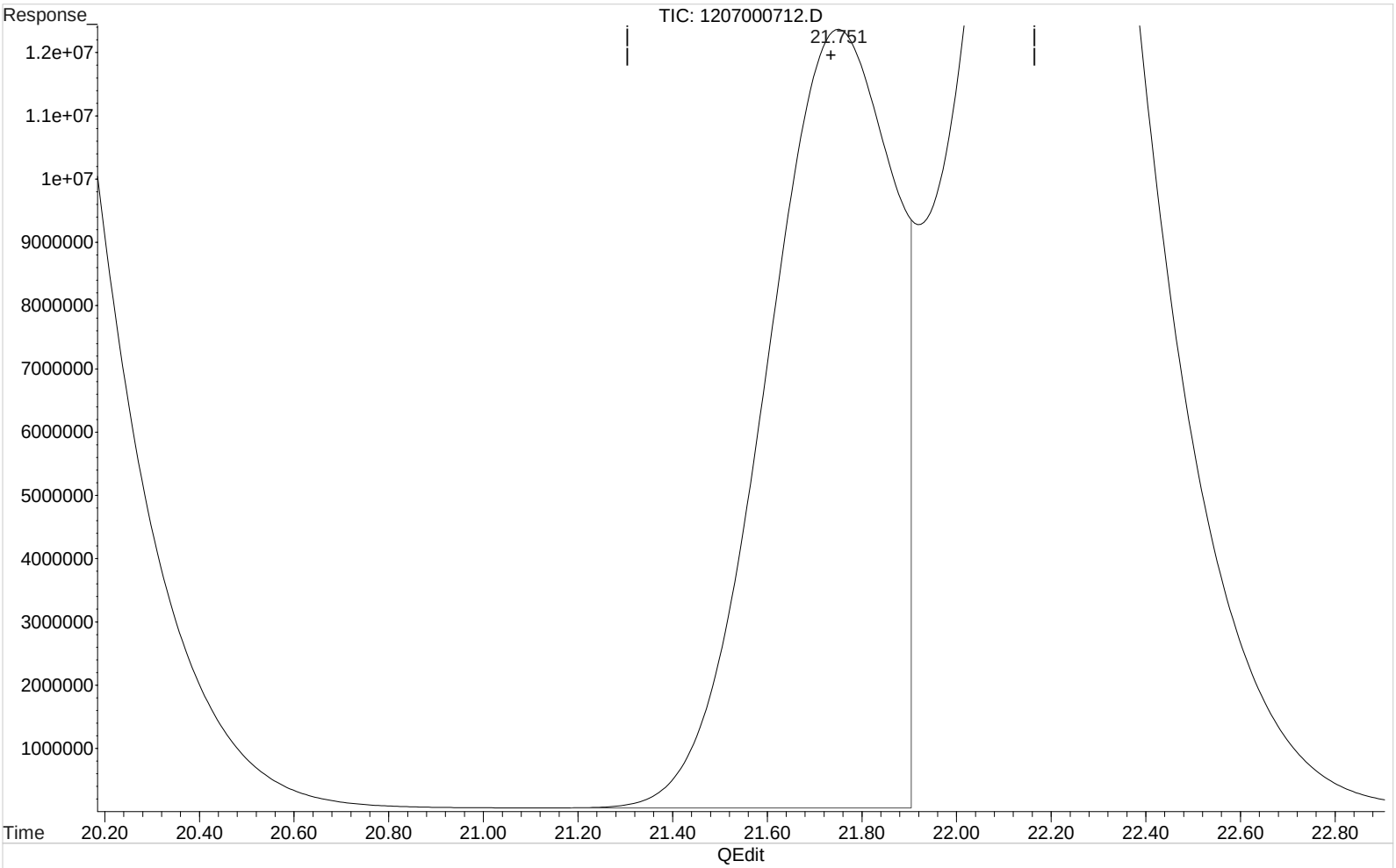
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000712.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:20:40 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:20:15 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.751min 9489.334 ug/L

response 232212639

Manual Integration:

Before

12/08/16

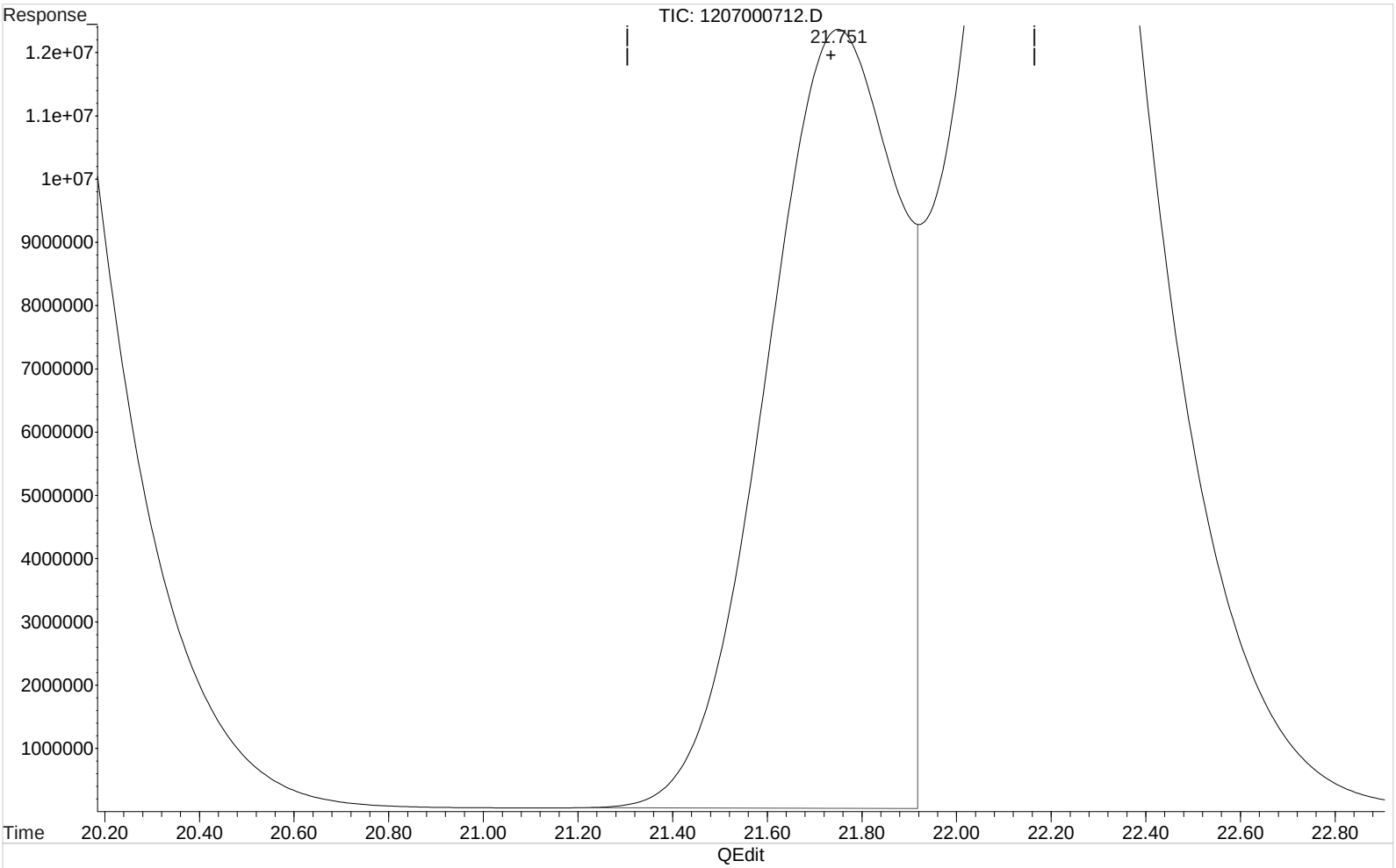
(+) = Expected Retention Time

1st (b) (6) 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000712.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:20:40 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:20:15 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.751min 9799.925 ug/L m

response 239813080

Manual Integration:

After

BLC

12/08/16

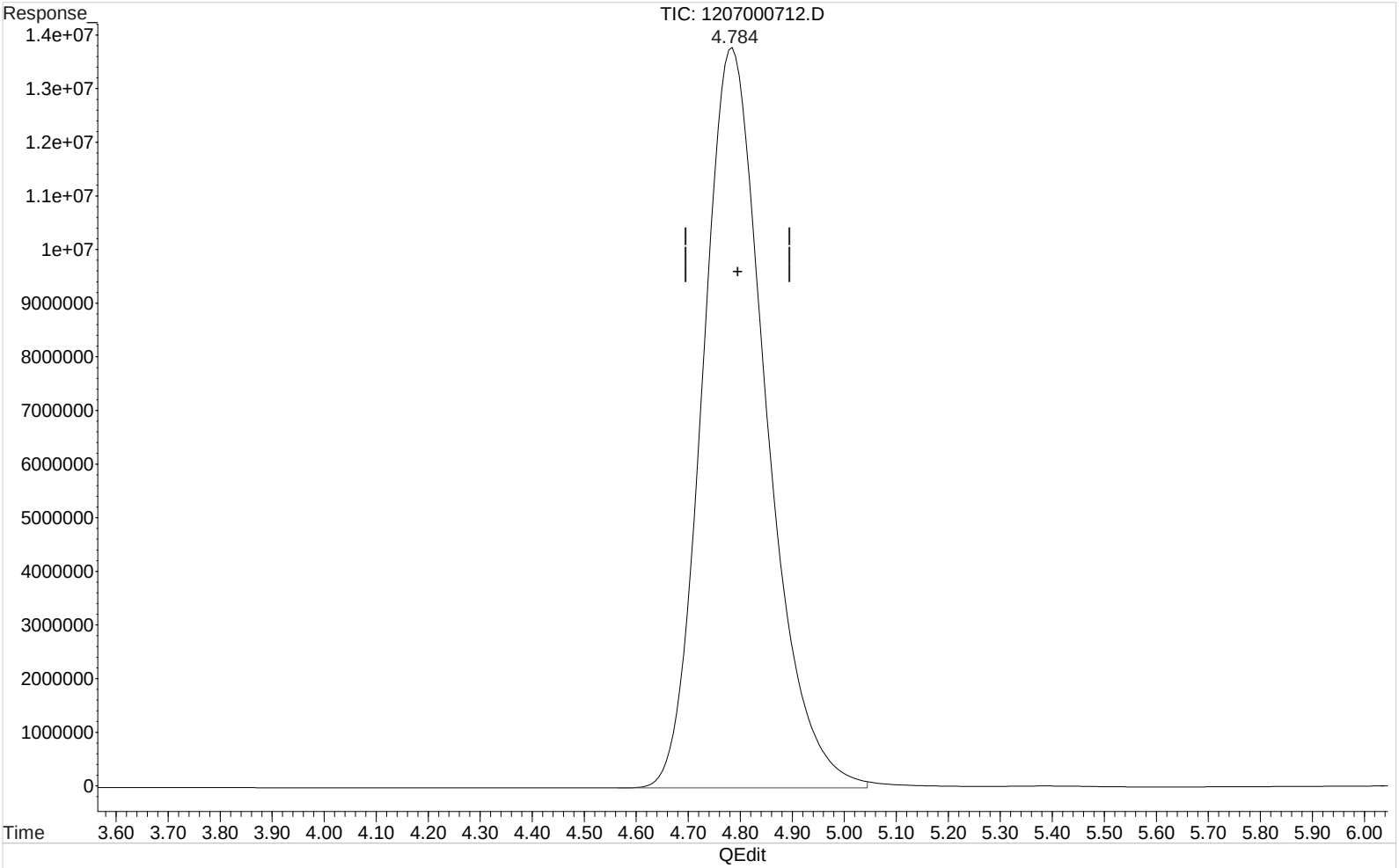
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000712.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:20:40 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:20:15 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(2) HMX (T)

4.784min 9782.211 ug/L

response 117333279

Manual Integration:

Before

12/08/16

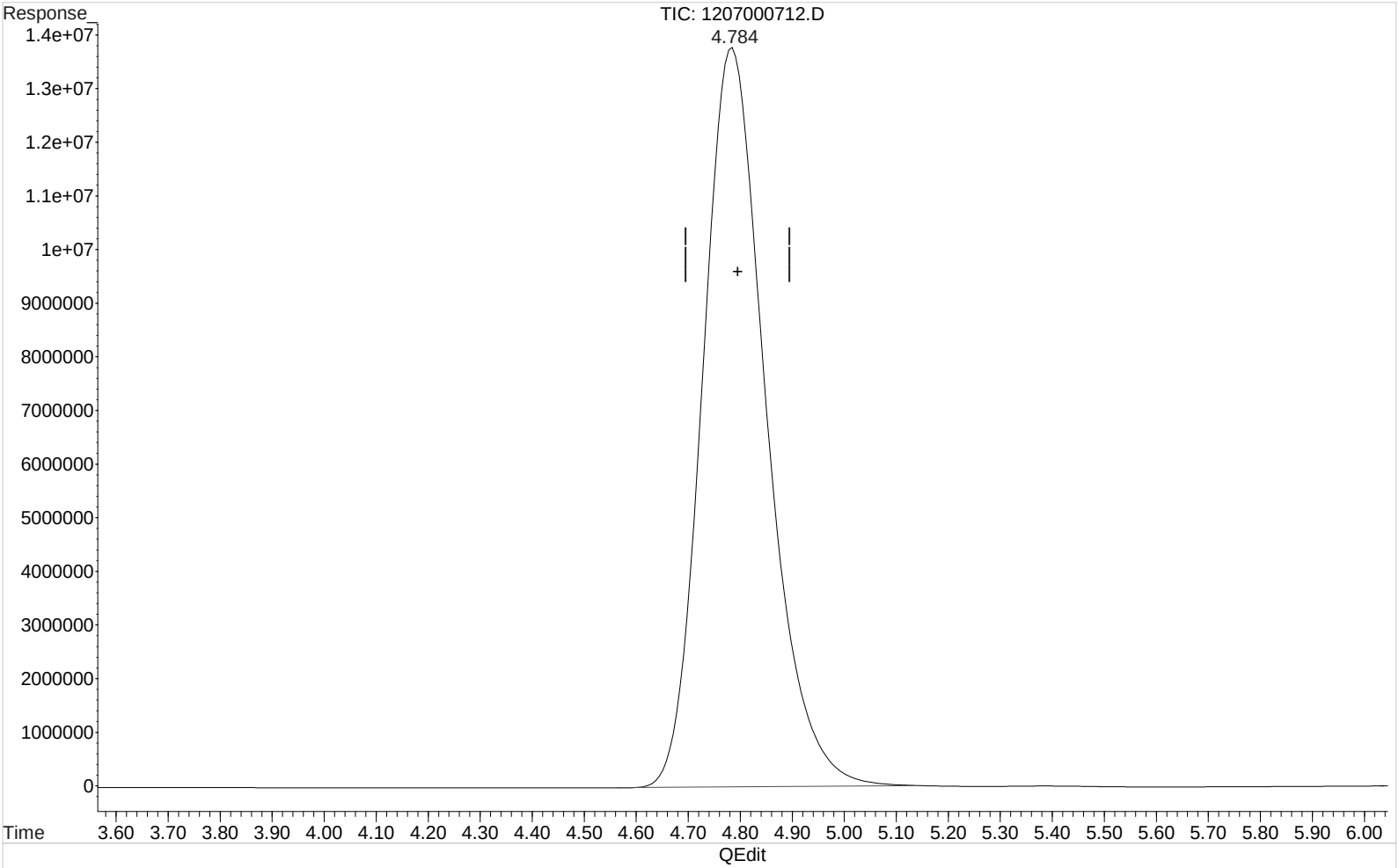
(+) = Expected Retention Time

(b) (6)
1st 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000712.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:20:40 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:20:15 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(2) HMX (T)

4.784min 9750.438 ug/L m

response 116952177

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:23:02 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
18)	S	1-Chloro-3-Nitrobenzene	29.704	435685183	20180.213	ug/L	
		Target Compounds					
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	4.777	241966350	20229.108	ug/L	m
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	8.371	401104321	20218.386	ug/L	
5)	T	1,3,5-TNB	10.511	900466088	20177.826	ug/L	
6)	T	1,3-DNB	13.844	1214946342	20171.579	ug/L	
7)	T	3,5-Dinitroaniline	14.944	968917588	20327.834	ug/L	
8)	T	Tetryl	15.578	672938780	20164.667	ug/L	
9)	T	Nitrobenzene	16.184	775365787	20088.658	ug/L	
10)	T	2,4,6-TNT	17.438	850093674	20454.841	ug/L	
11)	T	4-Amino-2,6-DNT	19.184	601309368	20416.185	ug/L	
12)	T	2-Amino-4,6-DNT	20.004	851309194	20040.326	ug/L	
13)	T	2,6-DNT	21.758	497576104	20378.674	ug/L	m
14)	T	2,4-DNT	22.204	1201394842	20313.423	ug/L	m
15)	T	2-NT	25.324	362650447	20206.077	ug/L	
16)	T	4-NT	26.251	316882161	19961.209	ug/L	
17)	T	3-NT	27.384	404148803	20078.821	ug/L	

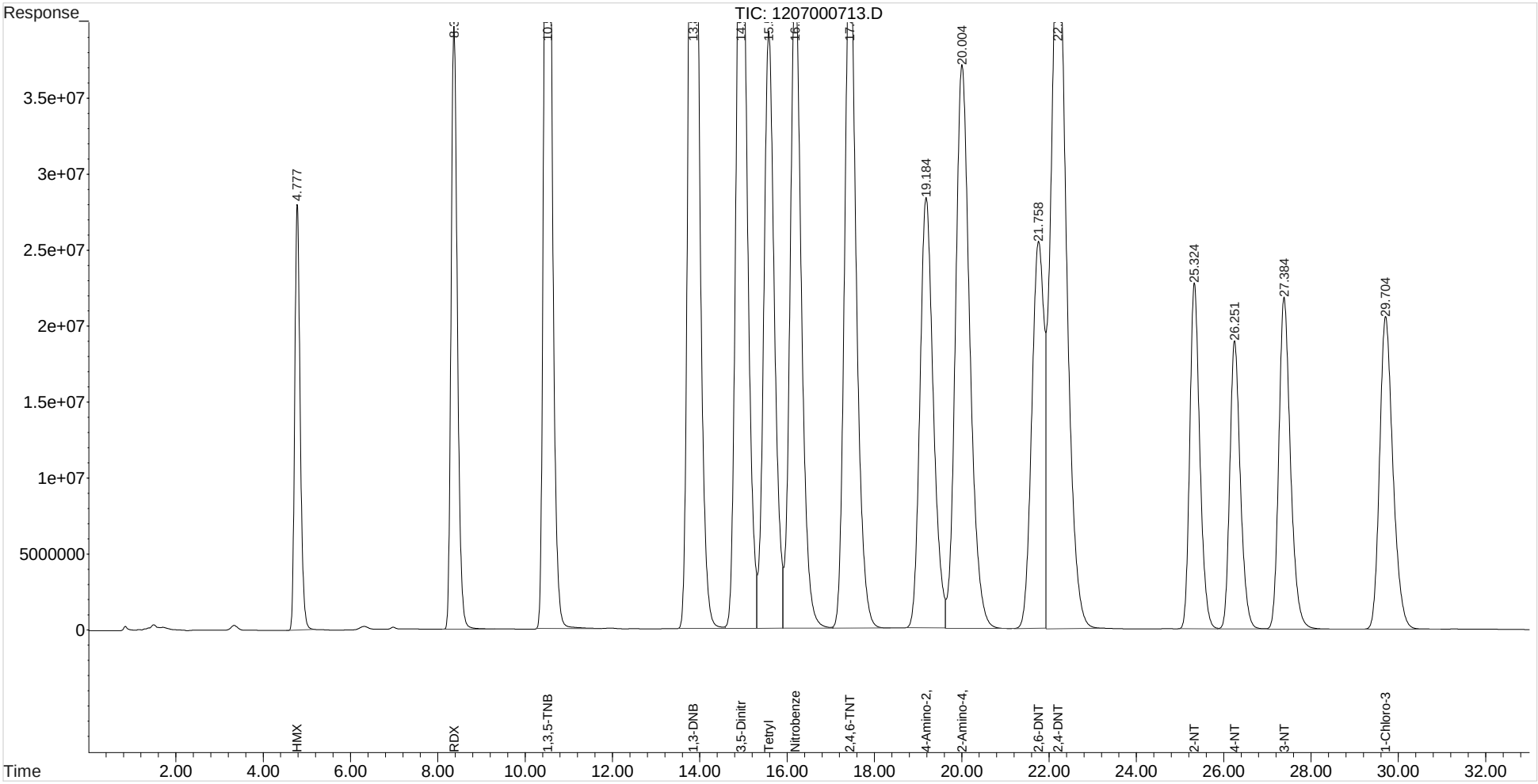
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:23:02 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

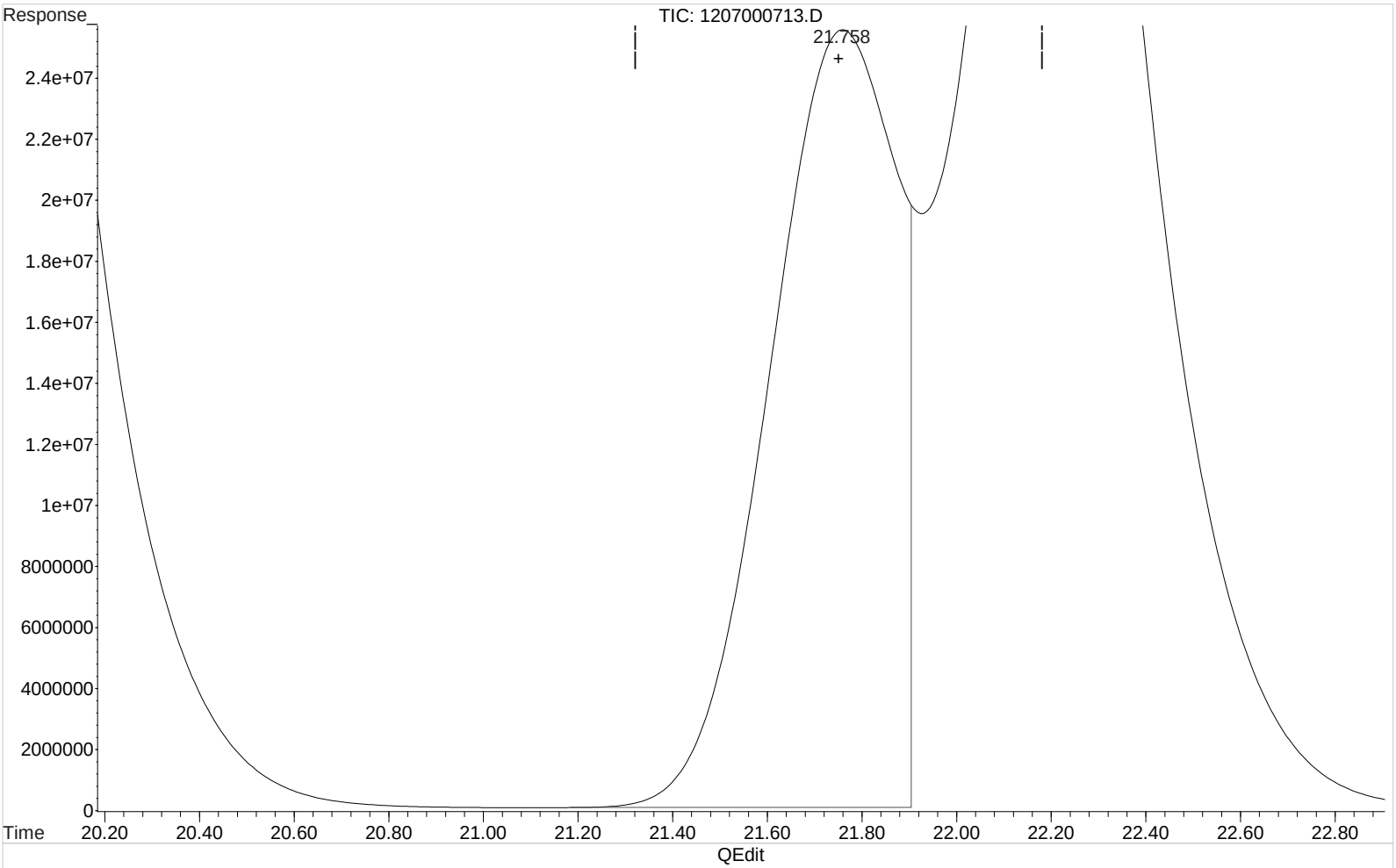


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:22:15 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.758min 19437.420 ug/L

response 474593969

Manual Integration:

Before

12/08/16

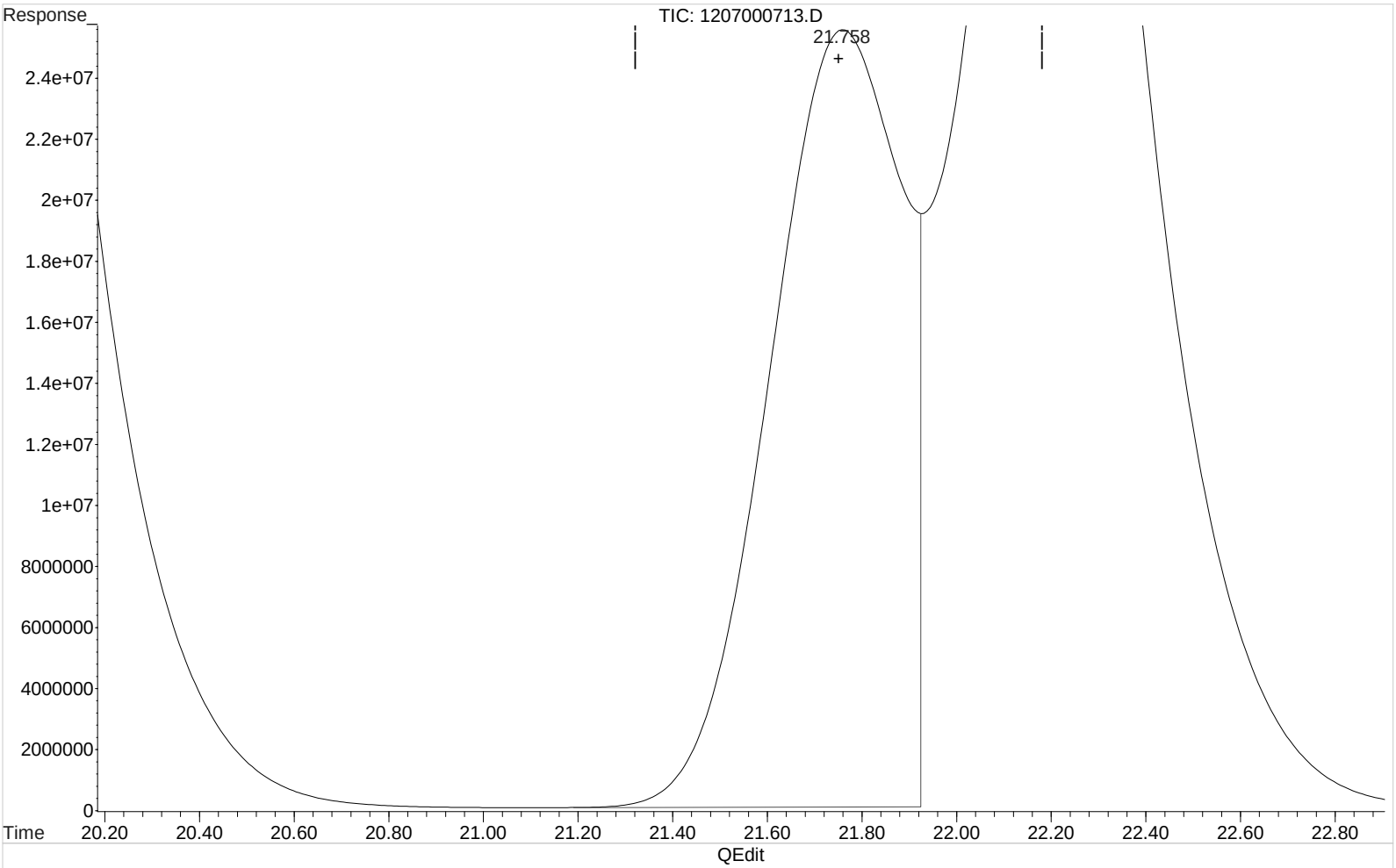
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:22:15 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.758min 20378.674 ug/L m

response 497576104

Manual Integration:

After

BLC

12/08/16

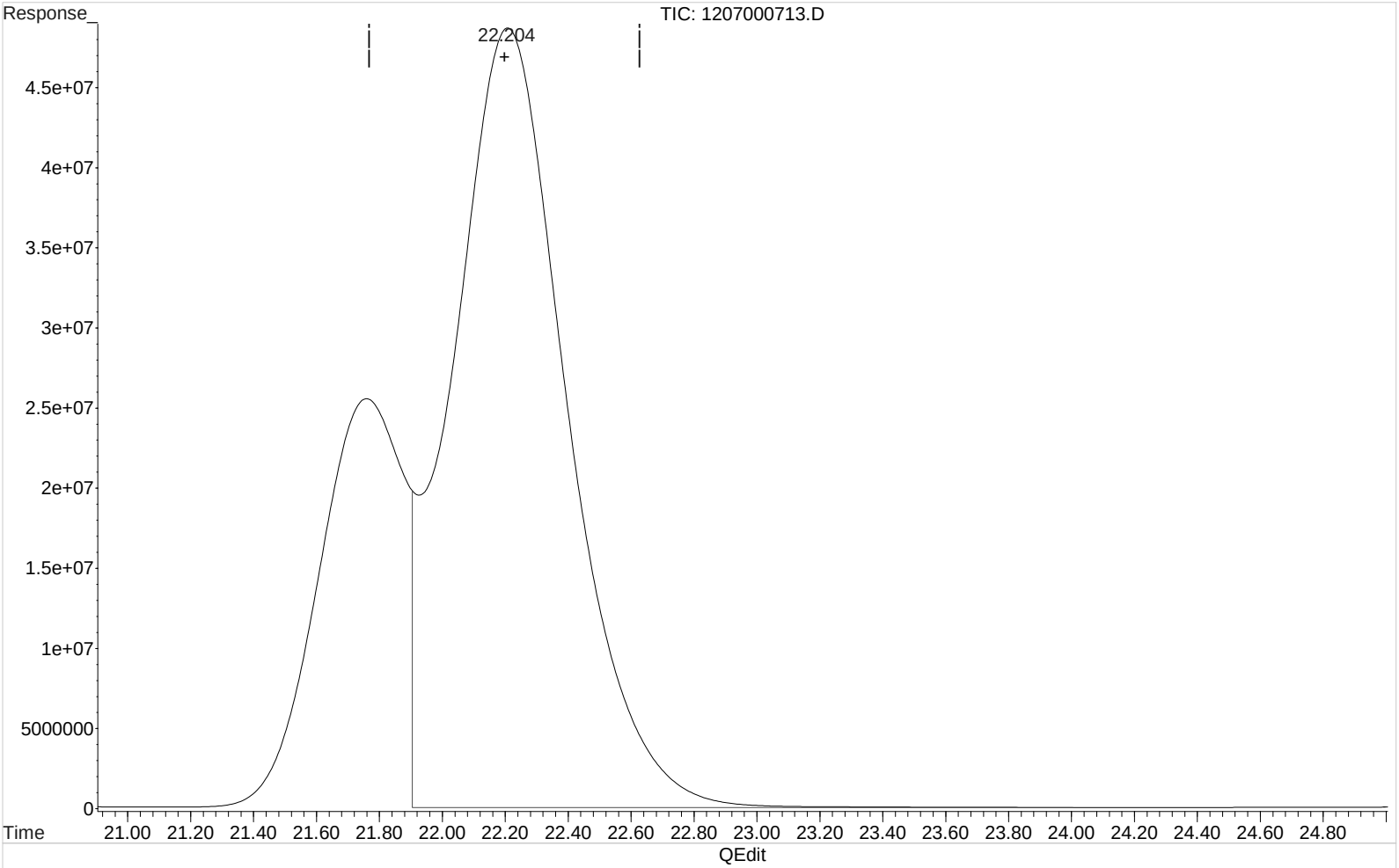
(+) = Expected Retention Time

(b) (6)
1st 2/08/16
2n 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:22:15 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.204min 20877.470 ug/L

response 1234754222

Manual Integration:

Before

12/08/16

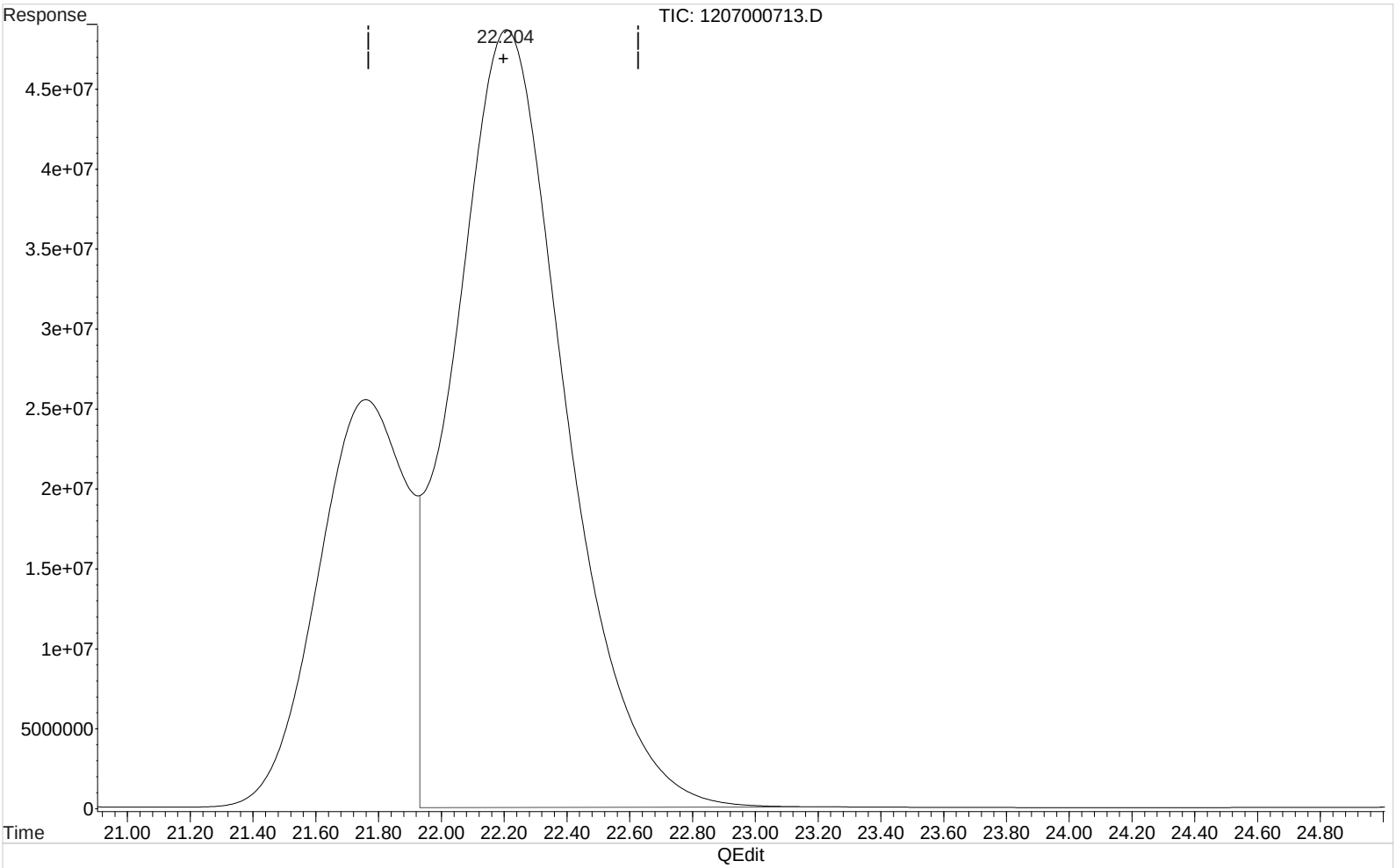
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:22:15 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.204min 20313.423 ug/L m

response 1201394842

Manual Integration:

After

BLC

12/08/16

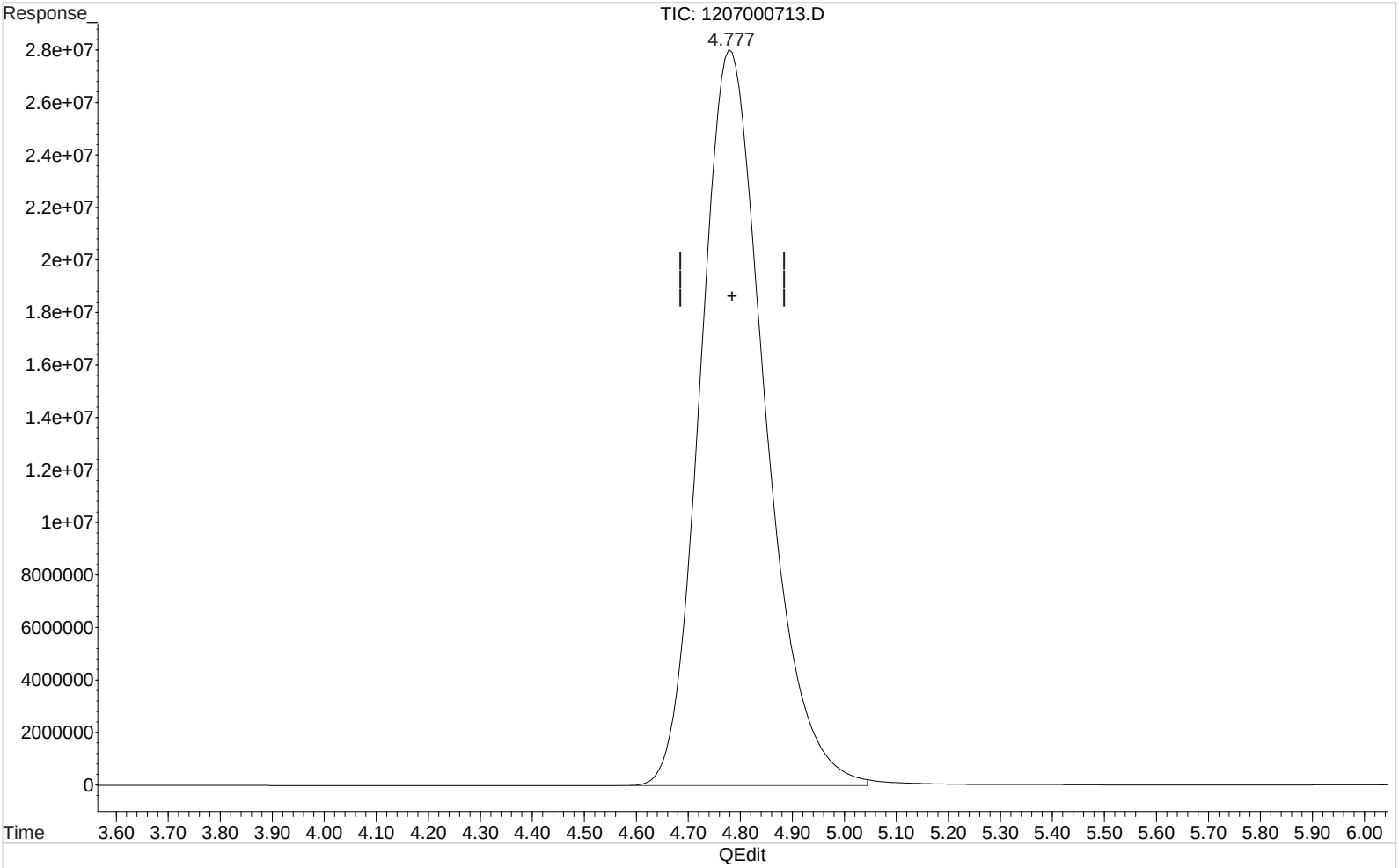
(+) = Expected Retention Time

1st (b) (6) 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:22:15 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(2) HMX (T)

4.777min 20269.811 ug/L

response 242453211

Manual Integration:

Before

12/08/16

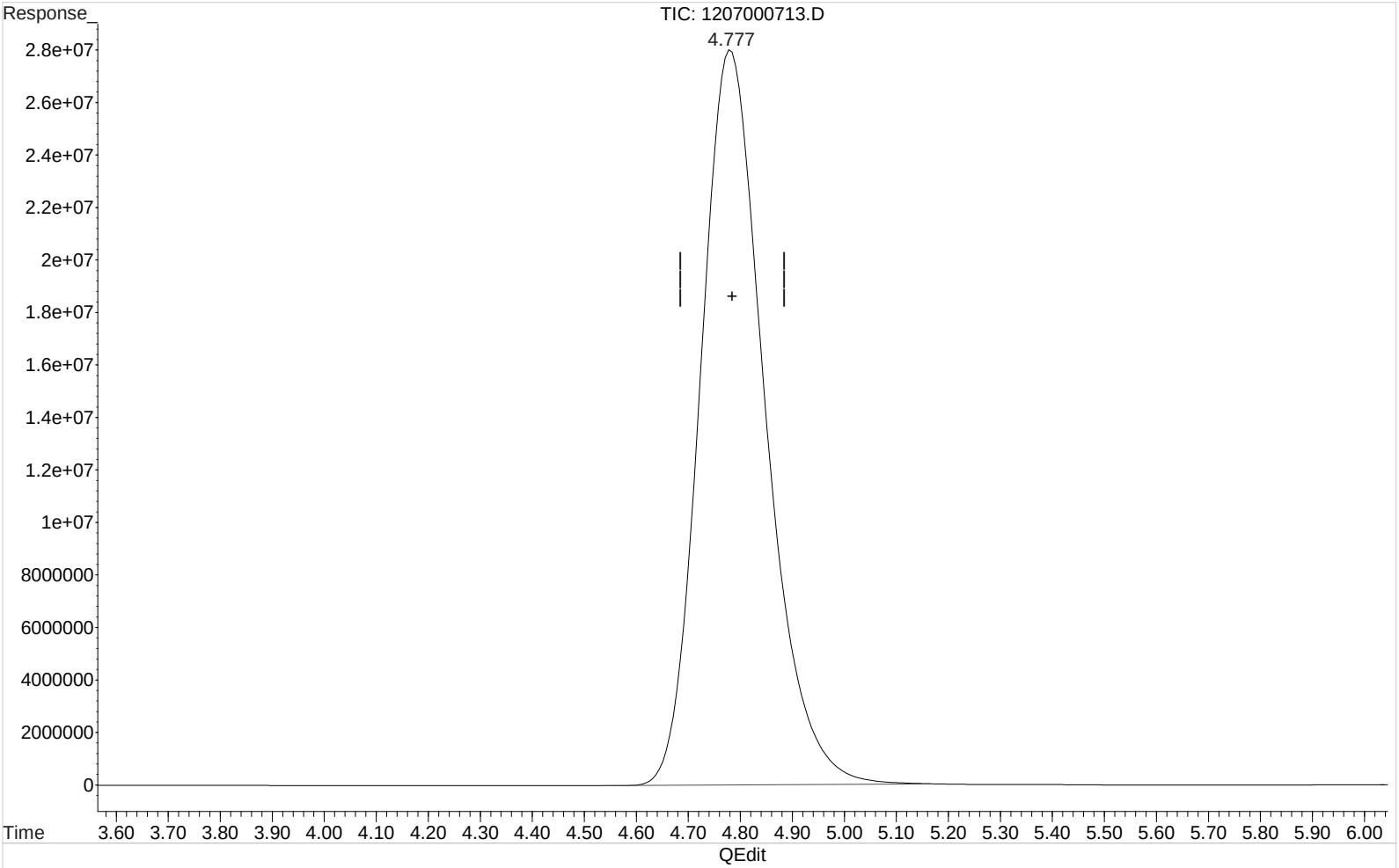
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:22:15 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(2) HMX (T)

4.777min 20229.108 ug/L m

response 241966350

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

(b) (6)
1st 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000715.D Vial: 13
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV ~~1000 PPB~~ 10,000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 13:49:43 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 13:47:31 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	29.691	178340313	8252.990	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	4.784	106984607	8933.998	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	8.371	176025842	8863.222	ug/L
5)	T	1,3,5-TNB	10.511	399499816	8944.120	ug/L
6)	T	1,3-DNB	13.851	535328425	8880.362	ug/L
7)	T	3,5-Dinitroaniline	14.958	428966341	8984.961	ug/L
8)	T	Tetryl	15.584	299167845	8957.215	ug/L
9)	T	Nitrobenzene	16.191	348449239	9023.839	ug/L
10)	T	2,4,6-TNT	17.438	377261904	9057.028	ug/L
11)	T	4-Amino-2,6-DNT	19.198	267038567	9047.901	ug/L
12)	T	2-Amino-4,6-DNT	20.017	374887145	8933.962	ug/L
13)	T	2,6-DNT	21.731	223573705	9139.357	ug/L
14)	T	2,4-DNT	22.184	532654960	8992.144	ug/L
15)	T	2-NT	25.311	161287053	8977.306	ug/L
16)	T	4-NT	26.231	141966427	8944.559	ug/L
17)	T	3-NT	27.364	176761245	8778.349	ug/L

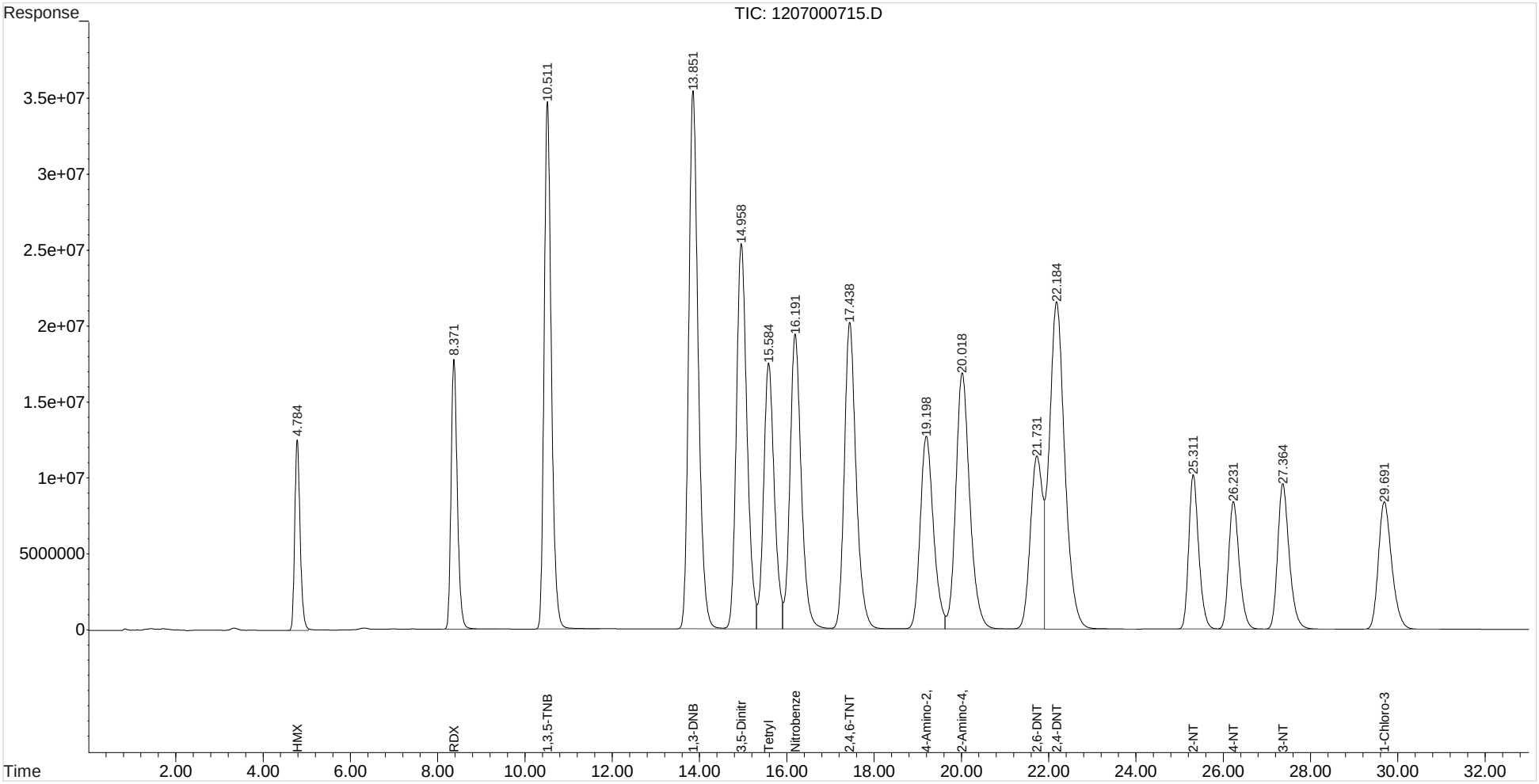
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000715.D Vial: 13
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 13:49:43 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 13:47:31 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



Preparation Information

Group ID:	KWG1701217	**Prep Method:**	METHOD	**Prep Date:**	02/14/17 13:35
Department:	Organic LC				

Lab Code	Client ID	Product	Matrix	Amt. Ext.	Final Vol.
K1701351-016	EB-020717	8330B NitramAroEsters	WATER	1050ml	4ml
K1701351-017	EB-020817	8330B NitramAroEsters	WATER	1030ml	4ml
K1701351-018	EB-020917	8330B NitramAroEsters	WATER	1040ml	4ml
KWG1701217-1	Lab Control Sample	8330B NitramAroEsters	WATER	1000ml	4ml
KWG1701217-2	Duplicate Lab Control Sampl	8330B NitramAroEsters	WATER	1000ml	4ml
KWG1701217-3	Method Blank	8330B NitramAroEsters	WATER	1000ml	4ml

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
K1701351-016	1586619	16-OLC-02-14C	20uL			(b) (6)
K1701351-017	1586620	16-OLC-02-14C	20uL			
K1701351-018	1586618	16-OLC-02-14C	20uL			
KWG1701217-1	1586621	16-OLC-02-14C	20uL	14-OLC-02-43M	8uL	
KWG1701217-2	1586622	16-OLC-02-14C	20uL	14-OLC-02-43M	8uL	
KWG1701217-3	1586623	16-OLC-02-14C	20uL			

Comments:

Started By: (b) (6) Assisted By:

Completed By: (b) (6) Assisted By:

Reviewed By: Date: 2/27/17 Storage:

Training: Yes / No; Yes / No

Chain of Custody (b) (6)

Relinquished By: Date: 2.15.17

Received By: Date: 2.16.17

Extracts Examined: Yes / No

Preparation Information

Group ID: KWG1701217 **Prep Method:** Method **Prep Date:** 2-14-17
Department: Organic LC

#	Lab Code	Client ID	B#	√	Product	Matrix	Amt. Ext. ml	pH	Int. Vol.	Final Vol.	Surr. Added	Spike Added
1	K1701351-016	EB-020717	.02	/	8330B NitramAroEst	WATER	1050	N/A	N/A	4 ml	20 ul	N/A
2	K1701351-017	EB-020817	.02	/	8330B NitramAroEst	WATER	1030	↓	↓	↓	↓	↓
3	K1701351-018	EB-020917	.02	/	8330B NitramAroEst	WATER	1040	↓	↓	↓	↓	↓
4	KWG1701217-1	Lab Control Sample			8330B NitramAroEst	WATER	1000	↓	↓	↓	↓	8 ul
5	KWG1701217-2	Duplicate Lab Control Sample			8330B NitramAroEst	WATER	1000	↓	↓	↓	↓	↓
6	KWG1701217-3	Method Blank			8330B NitramAroEst	WATER	1000	↓	↓	↓	↓	N/A

Comments: prep # 281558

Surrogate ID: 16-DLC-02-14C, 1000ppm, xp 5-31-17, 20ul
Spike ID: 14-DLC-02-43M, 1000ppm, xp 4-30-18, 8 ul
Witness: (b) (6) 02-14-17
Started By: (b) (6) Assisted By:
Completed By: Assisted By:

Additional Prep Information for Nitroaromatics and Nitramines by HPLC-SOP: SOC-8330B (rev. 5) in water

Service Request # K1701351 **Stealth Work Group #** KWG1701217

Lims Prep Run # 281558

Solvents/Reagents used:

ACN Lot #: 56207 **Acetone Lot #:** DP426

Hydrophobic DVB extraction cartridge Lot # 0000152839

Strata-X 33U 200mg/3mL cartridge Lot#: S300-0219

Initial SPE Start (Time/Date/Initial): 1335 2.14.17 (b) (6)

Initial SPE Stop (Time/Date/Initial): 1400 2.14.17

Second SPE Start (Time/Date/Initial): 1425 2.15.17 (b) (6)

Second SPE Stop (Time/Date/Initial): 1515 2.15.1

Final Volume Start (Time/Date/Initial) 1520 2.15.

Final Volume Stop (Time/Date/Initial) 1535 2.15.1

Vial Storage: Top Shelf **Archived Extract Storage:** Nemophilist

Comments/Observations:

Bench Sheet Review Check List
❑ Hold Times Met (if no, Reason:)
❑ Stealth group and lims group concur
❑ Prep date, dept, method, product code correct in stealth
❑ Spike Information correct
❑ Weights/Volumes and units correct on raw and final bench sheets
❑ Sample IDs have been checked—Bottle numbers appended if required
❑ Names present for: Started by, Completed by, relinquished by, and witnessed by.
❑ Training has been circled
❑ Extract Storage recorded
❑ Additional Prep Sheet completely filled out (NA or line out Blanks)
❑ All clean-ups have been noted on additional prep sheet
❑ Signed service request with Form V, if applicable, has been attached

Preparation Information

Group ID:	KWG1701417	**Prep Method:**	METHOD	**Prep Date:**	02/21/17 17:05
Department:	Organic LC				

Lab Code	Client ID	Product	Matrix	Amt. Ext.	Final Vol.	Solids
K1701351-001	FD-020717	8330B Fire Range Nitr	SOIL	10.004g	8ml	
K1701351-002	FD-020817	8330B Fire Range Nitr	SOIL	10.015g	8ml	
K1701351-003	FTBL-SB-02-0-0.5-020817	8330B Fire Range Nitr	SOIL	10.078g	8ml	
K1701351-004	FTBL-SB-02-0.5-2-020817	8330B Fire Range Nitr	SOIL	10.291g	8ml	
K1701351-005	FTBL-SB-02-4-5.5-020817	8330B Fire Range Nitr	SOIL	10.120g	8ml	
K1701351-006	FTBL-SB-01D-0-0.5-020717	8330B Fire Range Nitr	SOIL	10.320g	8ml	
K1701351-007	FTBL-SB-01D-0.5-2-020717	8330B Fire Range Nitr	SOIL	10.212g	8ml	
K1701351-008	FTBL-SB-01D-4-6-020717	8330B Fire Range Nitr	SOIL	10.220g	8ml	
K1701351-009	FTBL-SB-01-0-0.5-020717	8330B Fire Range Nitr	SOIL	10.159g	8ml	
K1701351-010	FTBL-SB-01-0.5-2-020717	8330B Fire Range Nitr	SOIL	10.017g	8ml	
K1701351-011	FTBL-SB-01-4-6-020717	8330B Fire Range Nitr	SOIL	10.189g	8ml	
K1701351-012	FTBL-SB-03-0-0.5-020817	8330B Fire Range Nitr	SOIL	10.090g	8ml	
K1701351-013	FTBL-SB-03-6-8-020817	8330B Fire Range Nitr	SOIL	10.026g	8ml	
K1701351-015	FTBL-SB03-28-30-020917	8330B Fire Range Nitr	SOIL	10.048g	8ml	
KWG1701417-1	Duplicate	8330B Fire Range Nitr	SOIL	10.004g	8ml	
KWG1701417-2	Triplicate	8330B Fire Range Nitr	SOIL	10.047g	8ml	
KWG1701417-3	Matrix Spike	8330B Fire Range Nitr	SOIL	10.007g	8ml	
KWG1701417-4	Duplicate Matrix Spike	8330B Fire Range Nitr	SOIL	10.017g	8ml	
KWG1701417-5	Standard Reference Material	8330B Fire Range Nitr	SOIL	10.036g	8ml	
KWG1701417-6	Storage Blank	8330B Fire Range Nitr	SOIL	10.317g	8ml	
KWG1701417-7	Storage Blank	8330B Fire Range Nitr	SOIL	10.084g	8ml	
KWG1701417-8	Lab Control Sample	8330B Fire Range Nitr	SOIL	10.000g	8ml	
KWG1701417-9	Method Blank	8330B Fire Range Nitr	SOIL	10.000g	8ml	

Lab Code	Parent Lab Code	Comments
KWG1701417-1	K1701351-001	KQ1701866-01
KWG1701417-2	K1701351-001	KQ1701866-02
KWG1701417-3	K1701351-001	KQ1701866-03
KWG1701417-4	K1701351-001	KQ1701866-04
KWG1701417-5		KQ1701866-05
KWG1701417-6		KQ1701866-06
KWG1701417-7		KQ1701866-07

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
K1701351-001	1587763	16-OLC-02-14C	40uL			(b) (6)
K1701351-002	1587764	16-OLC-02-14C	40uL			

Comments:

Started By: (b) (6) Assisted By:

Completed By: (b) (6) Assisted By:

Reviewed By: Date: 3/28/17 Storage:

Training: Yes / No; Yes / No

Chain of Custody

Relinquished By: (b) (6) Date: 3-1-2017

Received By: Date: 3-1-2017

Extracts Examined: Yes / No

Group ID:	KWG1701417	**Prep Method:**	METHOD	**Prep Date:**	02/21/17 17:05
Department:	Organic LC				

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
K1701351-003	1587765	16-OLC-02-14C	40uL			(b) (6)
K1701351-004	1587766	16-OLC-02-14C	40uL			
K1701351-005	1587767	16-OLC-02-14C	40uL			
K1701351-006	1587768	16-OLC-02-14C	40uL			
K1701351-007	1587769	16-OLC-02-14C	40uL			
K1701351-008	1587770	16-OLC-02-14C	40uL			
K1701351-009	1587771	16-OLC-02-14C	40uL			
K1701351-010	1587772	16-OLC-02-14C	40uL			
K1701351-011	1587773	16-OLC-02-14C	40uL			
K1701351-012	1587774	16-OLC-02-14C	40uL			
K1701351-013	1587775	16-OLC-02-14C	40uL			
K1701351-015	1587776	16-OLC-02-14C	40uL			
KWG1701417-1	1587777	16-OLC-02-14C	40uL			
KWG1701417-2	1587778	16-OLC-02-14C	40uL			
KWG1701417-3	1587779	16-OLC-02-14C	40uL	14-OLC-02-43M	20uL	
KWG1701417-4	1587780	16-OLC-02-14C	40uL	14-OLC-02-43M	20uL	
KWG1701417-5	1587781	16-OLC-02-14C	40uL			
KWG1701417-6	1587782	16-OLC-02-14C	40uL			
KWG1701417-7	1587783	16-OLC-02-14C	40uL			
KWG1701417-8	1587784	16-OLC-02-14C	40uL	14-OLC-02-43M	20uL	
KWG1701417-9	1587785	16-OLC-02-14C	40uL			

Comments:

Started By: (b) (6) Assisted By:

Completed By: Assisted By:

Reviewed By: (b) (6) Date: 3/6/17 Storage:

Training: Yes / No; Yes / No

Chain of Custody

Relinquished By: (b) (6) Date: 3.1.2017

Received By: Date: 3.1.2017

Extracts Examined: Yes / No

Preparation Information

Group ID:	KWG1701417	**Prep Method:**		**Prep Date:**	
Department:	Organic LC		EPA 3535A		02/21/17

#	Lab Code	Client ID	B#	√	Product	Matrix	Amt. Ext. g	pH	Int. Vol.	Final Vol. mL	Surr. Added µL	Spike Added µL
1	K1701351-001	FD-020717			8330B Fire Range Nitr	SOIL	see pre-prep	n/a	n/a	8	40	
2	K1701351-002	FD-020817			8330B Fire Range Nitr	SOIL						
3	K1701351-003	FTBL-SB-02-0-0.5-020817			8330B Fire Range Nitr	SOIL						
4	K1701351-004	FTBL-SB-02-0.5-2-020817			8330B Fire Range Nitr	SOIL						
5	K1701351-005	FTBL-SB-02-4-5.5-020817			8330B Fire Range Nitr	SOIL						
6	K1701351-006	FTBL-SB-01D-0-0.5-020717			8330B Fire Range Nitr	SOIL						
7	K1701351-007	FTBL-SB-01D-0.5-2-020717			8330B Fire Range Nitr	SOIL						
8	K1701351-008	FTBL-SB-01D-4-6-020717			8330B Fire Range Nitr	SOIL						
9	K1701351-009	FTBL-SB-01-0-0.5-020717			8330B Fire Range Nitr	SOIL						
10	K1701351-010	FTBL-SB-01-0.5-2-020717			8330B Fire Range Nitr	SOIL						
11	K1701351-011	FTBL-SB-01-4-6-020717			8330B Fire Range Nitr	SOIL						
12	K1701351-012	FTBL-SB-03-0-0.5-020817			8330B Fire Range Nitr	SOIL						
13	K1701351-013	FTBL-SB-03-6-8-020817			8330B Fire Range Nitr	SOIL						
14	K1701351-015	FTBL-SB03-28-30-020917			8330B Fire Range Nitr	SOIL						
15	KWG1701417-1	Duplicate K1701351-001			8330B Fire Range Nitr	SOIL						
16	KWG1701417-2	Triplicate K1701351-001			8330B Fire Range Nitr	SOIL						
17	KWG1701417-3	Matrix Spike K1701351-001			8330B Fire Range Nitr	SOIL						20
18	KWG1701417-4	Duplicate Matrix Spike K1701351-001			8330B Fire Range Nitr	SOIL						20

Comments:

Surrogate ID: 16-OLC-02-14C 1000 ppm xp 5-31-17

Spike ID: 14-OLC-02-43M 1000 ppm xp 04-31-18

Witness: (b) (6) 2/21/17

Started By: (b) (6)

Assisted By: (b) (6)

Completed By: [redacted]

Assisted By:

Group ID:	KWG1701417	**Prep Method:**	**Prep Date:**
Department:	Organic LC	EPA 3535A	02/21/17

#	Lab Code	Client ID	B#	√	Product	Matrix	Amt. Ext. g	pH	Int. Vol.	Final Vol. mL	Surr. Added mL	Spike Added mL
19	KWG1701417-5	Standard Reference Material	—		8330B Fire Range Nitr	SOIL	see pre-prep	N/a	N/a	8	40	—
20	KWG1701417-6	Storage Blank GB1	—		8330B Fire Range Nitr	SOIL	↓	↓	↓	↓	↓	—
21	KWG1701417-7	Storage Blank GB2	—		8330B Fire Range Nitr	SOIL	↓	↓	↓	↓	↓	—
22	KWG1701417-8	Lab Control Sample	—		8330B Fire Range Nitr	SOIL	↓	↓	↓	↓	↓	20
23	KWG1701417-9	Method Blank	—		8330B Fire Range Nitr	SOIL	↓	↓	↓	↓	↓	—

Comments:

Surrogate ID: 16-OLC-02-14C 1000 ppm xp 05.31.17

Spike ID: 14-OLC-02-43M 1000 ppm xp 04.31.18

Witness: (b) (6) /17

Started By: (b) (6) Assisted By:

Completed By: Assisted By:

Additional Prep Information For Nitroaromatics and Nitramines by HPLC – SOP: SOC-8330B (rev. 4) in Soil

Service Request # K1701351 **Stealth Work Group #** KWG1701417

Lims Run # 282053

Solvents/Reagents used:

0.1% Glacial Acetic Acid/ACN Lot# 17-OLC-01-03L

ACN Lot# 56207 **Reagent Water Lot#** 56160

Balance ID#: -49, -50

Sonic Bath Start (Time/Date/Initial): 17:05 02/21/17 [redacted]

Sonic Bath Stop (Time/Date/Initial): 12:30 02/22/17 [redacted]

Strata-X 33U 200mg/3mL cartridge Lot# S300-0219

Extraction Start (Time/Date/Initial): 1040 3.1.17 [redacted]

Extraction Stop (Time/Date/Initial): 1430 3/1/17 [redacted]

Final Volume Start (Time/Date/Initial): 1430 3/1/17 [redacted]

Final Volume Stop (Time/Date/Initial): 1525 3/1/17 [redacted]

Completion (Time/Date/Initial) 1525 3/1/17 [redacted] **Vial Storage:** TOP SHELF

Archived Extract Storage: LIME JELLO

Comments/Observations:

Bench Sheet Review Check List
❑ Hold Times Met (if no, Reason:)
❑ Stealth group and lims group concur
❑ Prep date, dept, method, product code correct in stealth
❑ Spike Information correct
❑ Weights/Volumes and units correct on raw and final bench sheets
❑ Sample IDs have been checked—Bottle numbers appended if required
❑ Names present for: Started by, Completed by, relinquished by, and witnessed by.
❑ Training has been circled
❑ Extract Storage recorded
❑ Additional Prep Sheet completely filled out (NA or line out Blanks)
❑ All clean-ups have been noted on additional prep sheet
❑ Signed service request with Form V, if applicable, has been attached

Pre-Prep Information Benchsheet

Prep Run #: 282053 **Prep Method:** **Team:** **Prep Due Date:** Feb-21-2017

#	Lab Code	Bottle	Test Name	Weight	Sample Comments	Test Comments
1	K1701351-001	.03	Fire Range Nitr	10.004g		PrepComments:APOSEY K-BALANCE-49
2	K1701351-002	.03	Fire Range Nitr	10.015g		PrepComments:DMadden K-Balance-50
3	K1701351-003	.03	Fire Range Nitr	10.078g		PrepComments:DMadden K-Balance-50
4	K1701351-004	.04	Fire Range Nitr	10.291g		PrepComments:DMadden K-Balance-50
5	K1701351-005	.04	Fire Range Nitr	10.120g		PrepComments:DMadden K-Balance-50
6	K1701351-006	.04	Fire Range Nitr	10.320g		PrepComments:DMadden K-Balance-50
7	K1701351-007	.04	Fire Range Nitr	10.212g		PrepComments:DMadden K-Balance-50
8	K1701351-008	.04	Fire Range Nitr	10.220g		PrepComments:DMadden K-Balance-50
9	K1701351-009	.04	Fire Range Nitr	10.159g		PrepComments:DMadden K-Balance-50
10	K1701351-010	.04	Fire Range Nitr	10.017g		PrepComments:DMadden K-Balance-50
11	K1701351-011	.04	Fire Range Nitr	10.189g		PrepComments:DMadden K-Balance-50
12	K1701351-012	.05	Fire Range Nitr	10.090g		PrepComments:DMadden K-Balance-50
13	K1701351-013	.05	Fire Range Nitr	10.026g		PrepComments:DMadden K-Balance-50
14	K1701351-015	.07	Fire Range Nitr	10.048g		PrepComments:DMadden K-Balance-50
15	K1701351-001 DUP KQ1701866-01	.03	Fire Range Nitr	10.004g		PrepComments:APOSEY K-BALANCE-49
16	K1701351-001 TRP KQ1701866-02	.03	Fire Range Nitr	10.047g		PrepComments:APOSEY K-BALANCE-49
17	K1701351-001 MS KQ1701866-03	.03	Fire Range Nitr	10.007g		PrepComments:APOSEY K-BALANCE-49
18	K1701351-001 DMS KQ1701866-04	.03	Fire Range Nitr	10.017g		PrepComments:APOSEY K-BALANCE-49
19	KQ1701866-05 SRM KQ1701866-05	.01	Fire Range Nitr	10.036	17-OLC-01-13C xp 2.28.17	
20	KQ1701866-06 MB KQ1701866-06	.01	Fire Range Nitr	10.317	Samples 1-10	
21	KQ1701866-07 MB KQ1701866-07	.02	Fire Range Nitr	10.084	11-13, 15	

*% Solids is a calculated field meant solely as a reference value for verifying the presence of Total Solids in calculations

015624 Page 3990 of 4534 11/01/2018

Date: 2/9/2017 XC-254 YC-210

ALS Environmental

ICAL Date: 2/9/2017

By: AE

Injection Log

ICAL ID: CAL 15185 (210) CAL 15192 (254)

Stealth ID: N/A **LC8 - Agilent 1260** **LIMS ID:** N/A

2nd Review:

Column: Ultra Aromax SN: 150411353J

Mobile Phases A: MeOH Lot#: 56189 **B:** ACN Lot#: 56207 **C:** H_2O Lot#: 56160 NA

		File Name	Method	Dilution	R	Comments
1	PRIMER	0209000101	8330BXC.M	NA		
2	PRIMER	0209000102	8330BXC.M	NA	X	
3	IB	0209000103	8330BXC.M	NA	X	
4	17-OLC-01-09J 20 PPB	0209000104	8330BXC.M	NA	X	
5	17-OLC-01-09I 50 PPB	0209000105	8330BXC.M	NA	X	
6	17-OLC-01-09H 100 PPB	0209000106	8330BXC.M	NA	X	
7	17-OLC-01-09G 200 PPB	0209000107	8330BXC.M	NA	X	
8	17-OLC-01-09F 500 PPB	0209000108	8330BXC.M	NA	X	
9	17-OLC-01-09E 1000 PPB	0209000109	8330BXC.M	NA	X	
10	17-OLC-01-09D 2000 PPB	0209000110	8330BXC.M	NA	X	
11	17-OLC-01-09C 5000 PPB	0209000111	8330BXC.M	NA	X	
12	17-OLC-01-09B 10000 PPB	0209000112	8330BXC.M	NA	X	
13	17-OLC-01-09A 20000 PPB	0209000113	8330BXC.M	NA	X	
14	IB	0209000114	8330BXC.M	NA	X	
15	17-OLC-01-09K 1000 PPB ICV	0209000115	8330BXC.M	NA	X	
16	IB	0209000116	8330BXC.M	NA	X	

(b) (6)

2/13/17

2/17/17

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000103.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 15:23:38 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:39:27 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
Target Compounds					
1) T	Nitroglycerin	0.000	0	N.D.	ug/L
2) T	PETN	0.000	0	N.D.	ug/L d

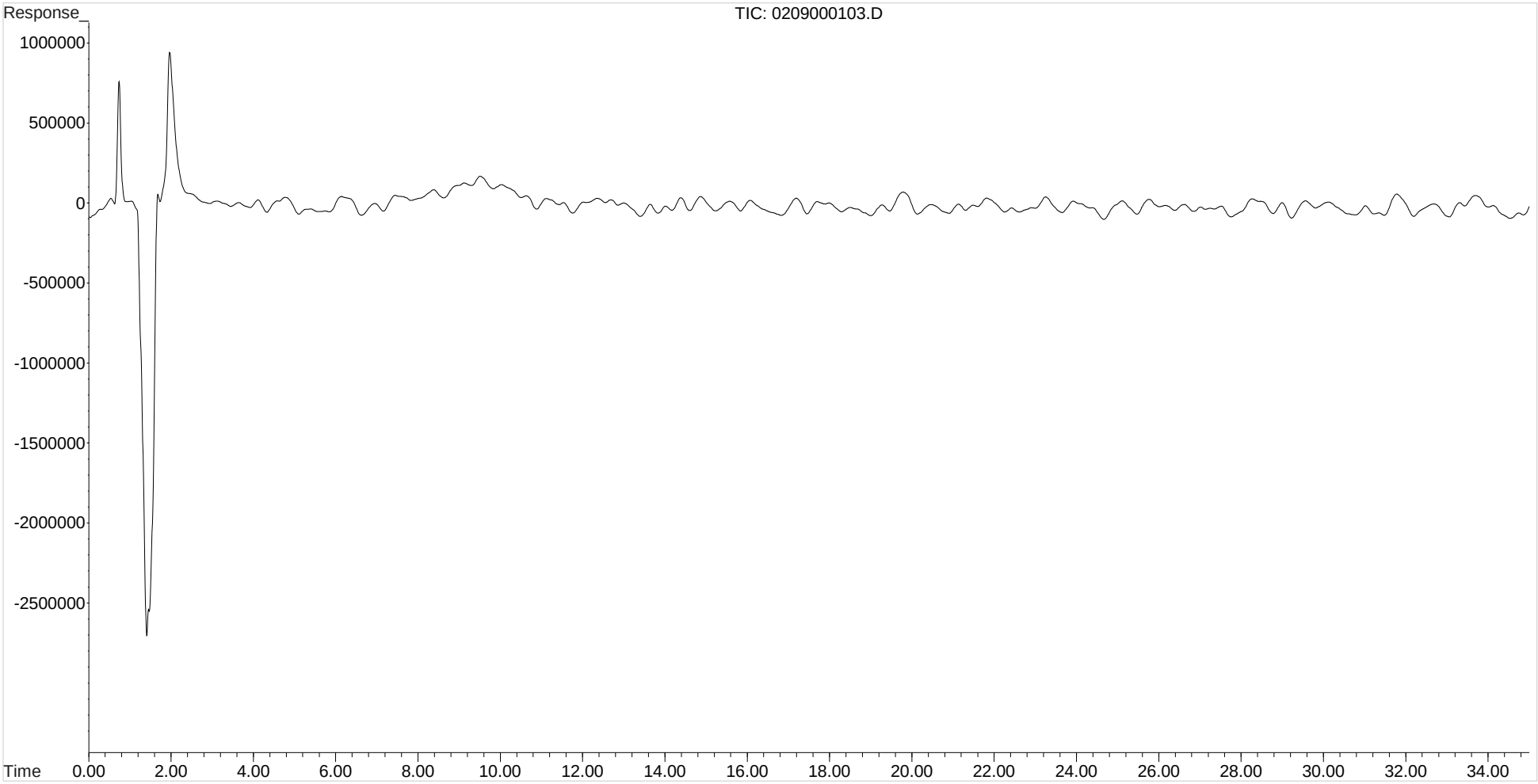
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000103.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 15:23:38 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:39:27 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:33:41 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	8.147	652772	9.384 ug/L m
Target Compounds				
1) T	Nitroglycerin	3.793	1642816	78.604 ug/L m
2) T	PETN	6.980	1691788	20.719 ug/L m

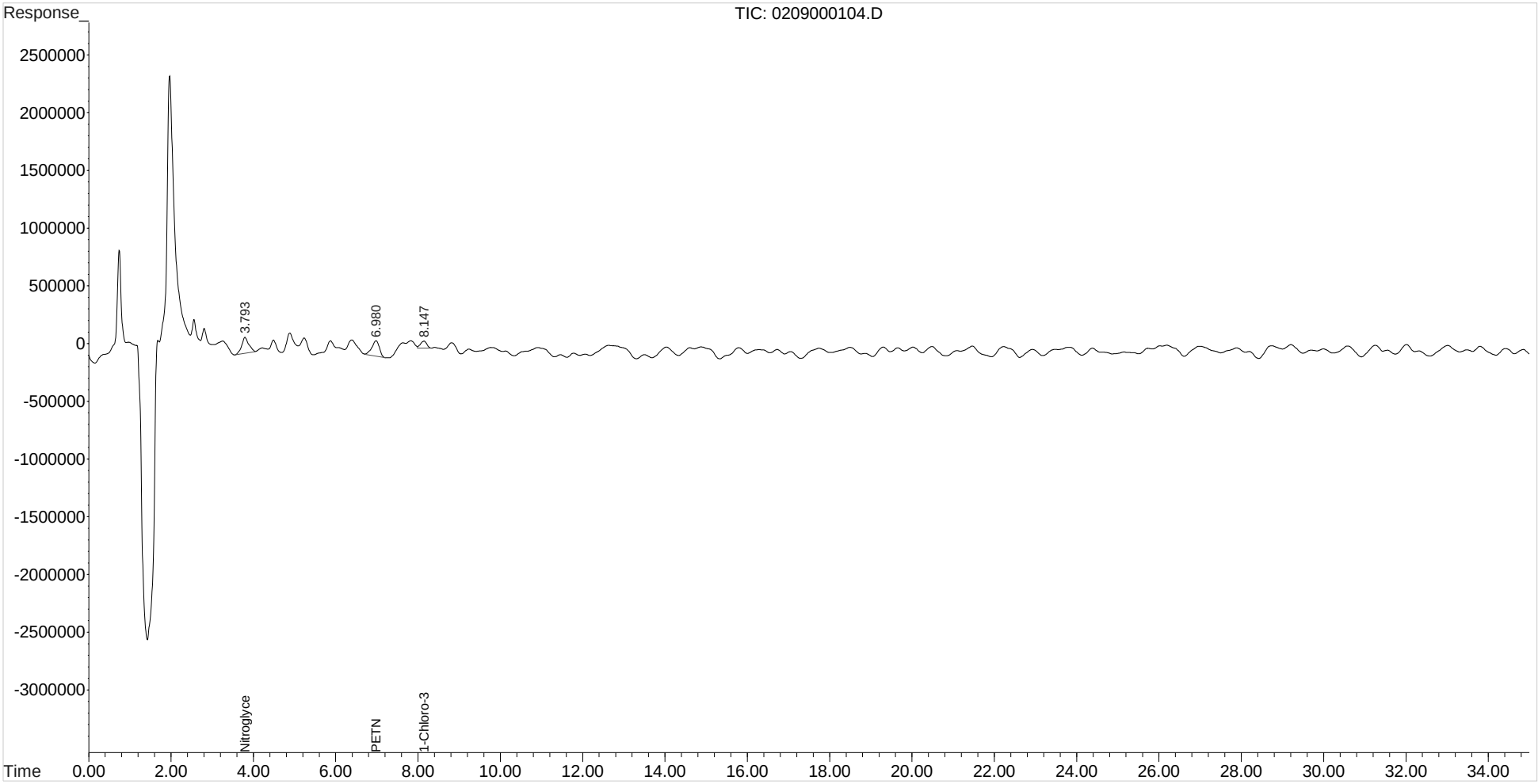
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:33:41 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

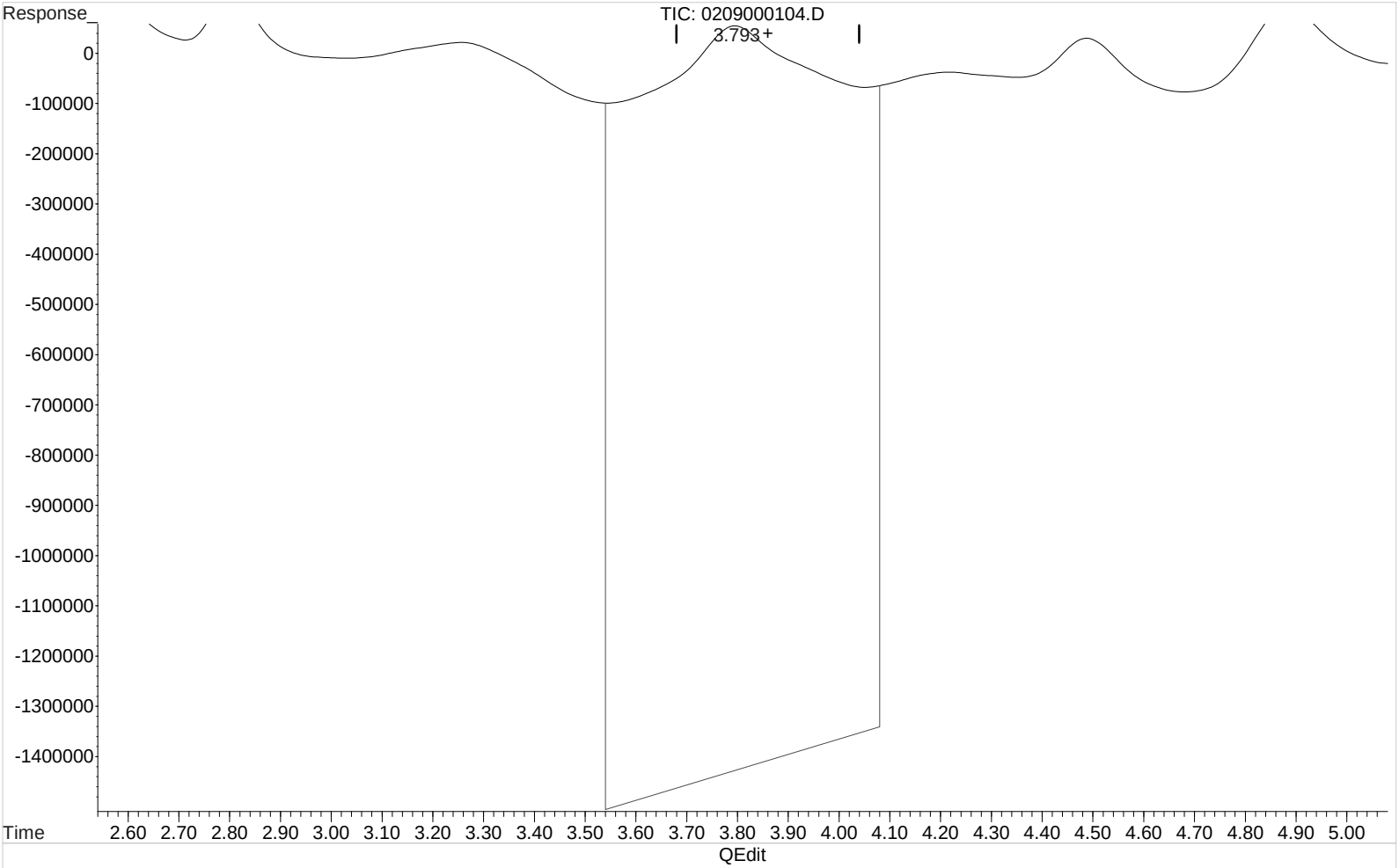


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:44 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.793min 2157.292 ug/L

response 45086986

Manual Integration:

Before

02/10/17

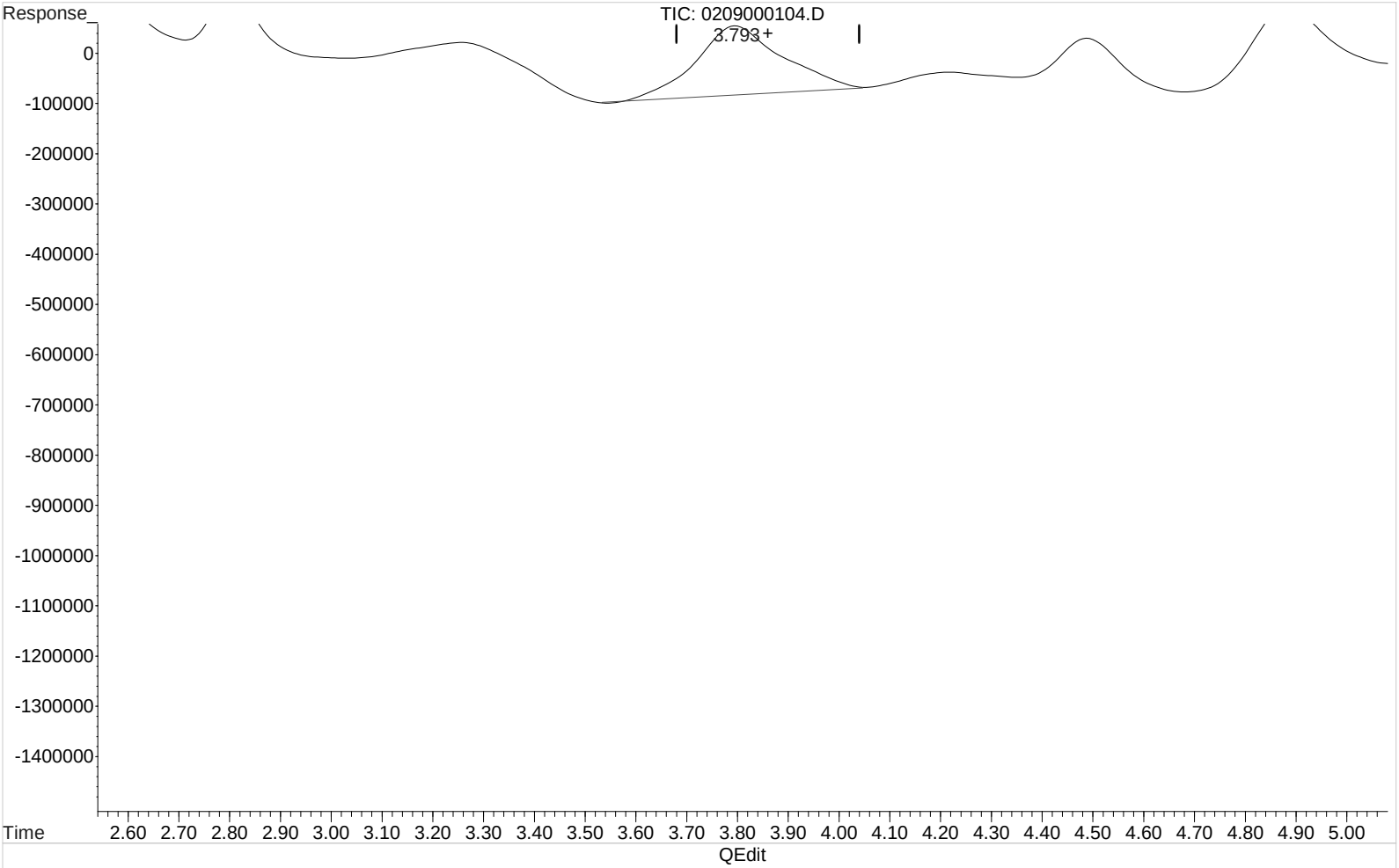
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:44 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.793min 78.604 ug/L m

response 1642816

Manual Integration:

After

BLC

02/10/17

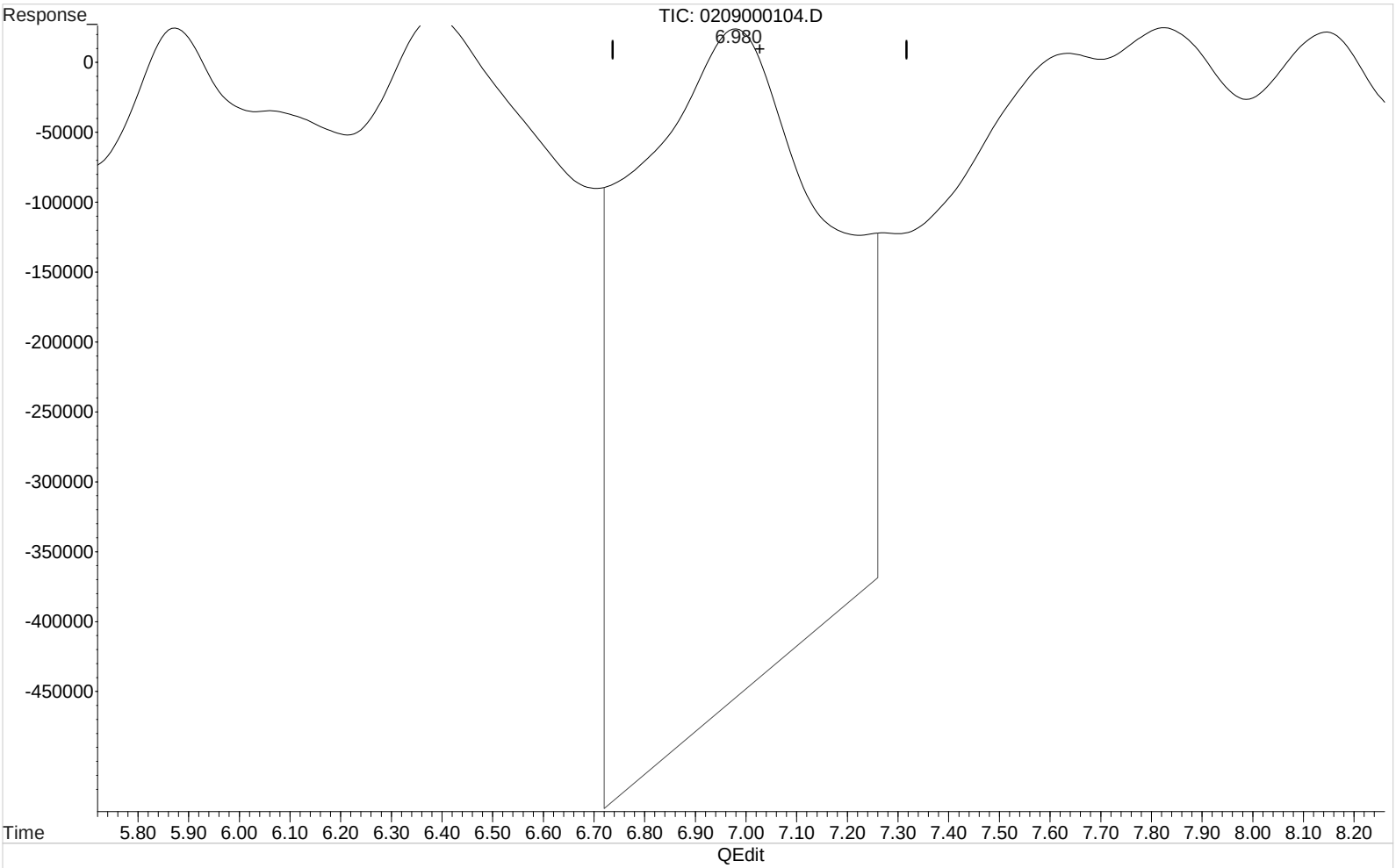
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:44 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.980min 156.268 ug/L

response 12760096

Manual Integration:

Before

02/10/17

(+) = Expected Retention Time

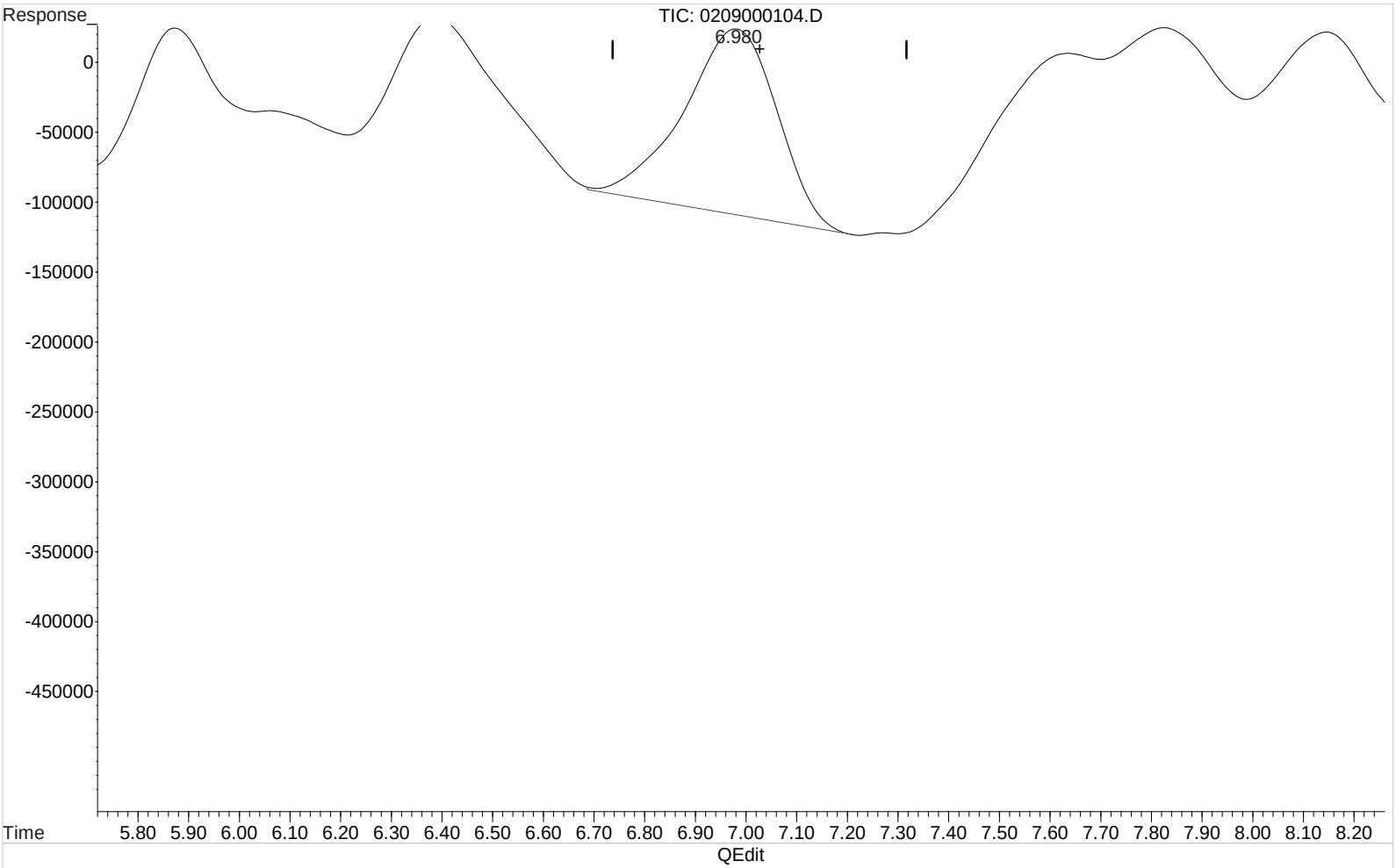
Quantitation Report (Qedit)

(b) (6)
1st 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:44 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.980min 20.719 ug/L m

response 1691788

Manual Integration:

After

BLC

02/10/17

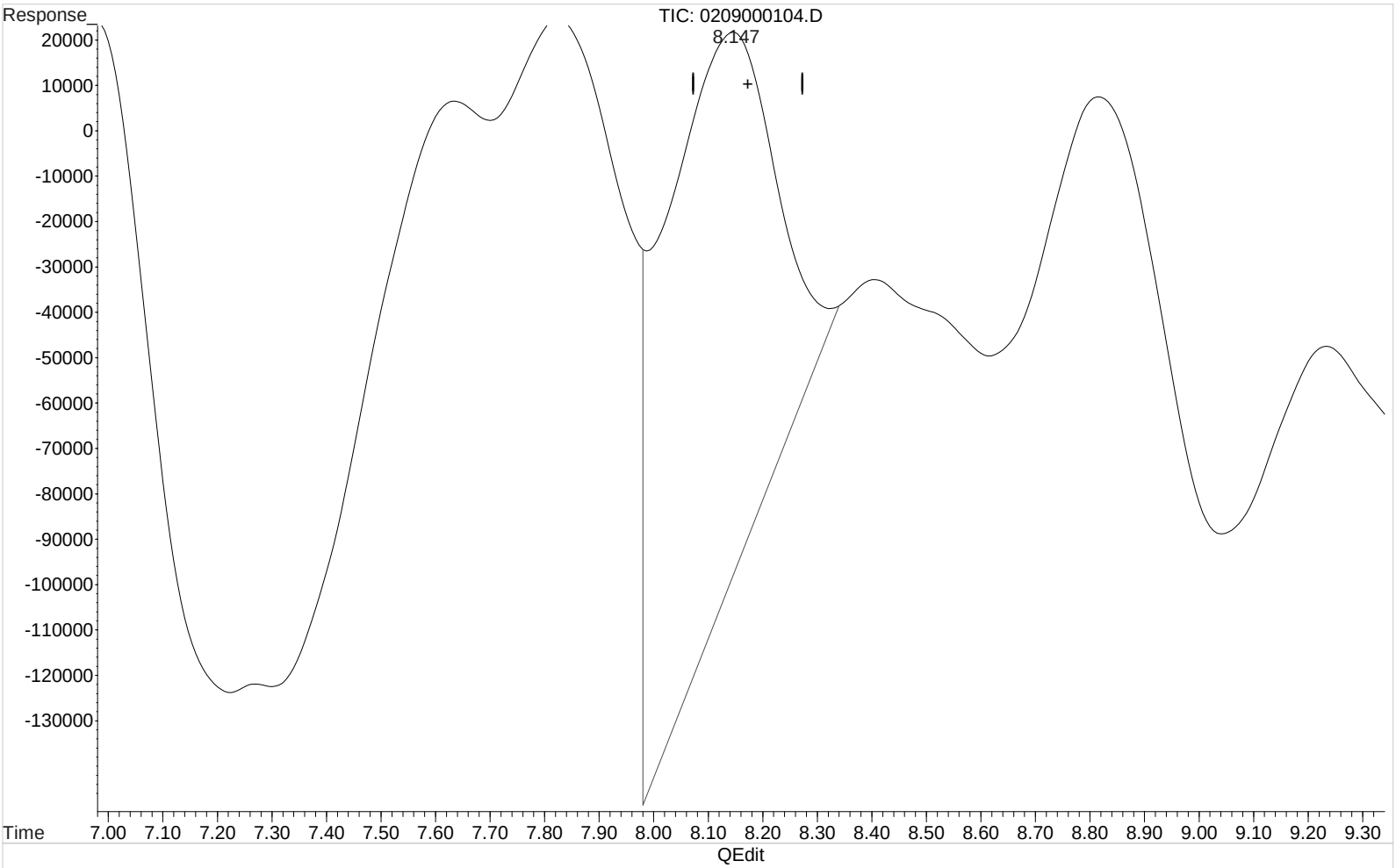
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:44 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

8.147min 26.209 ug/L

response 1823212

Manual Integration:

Before

02/10/17

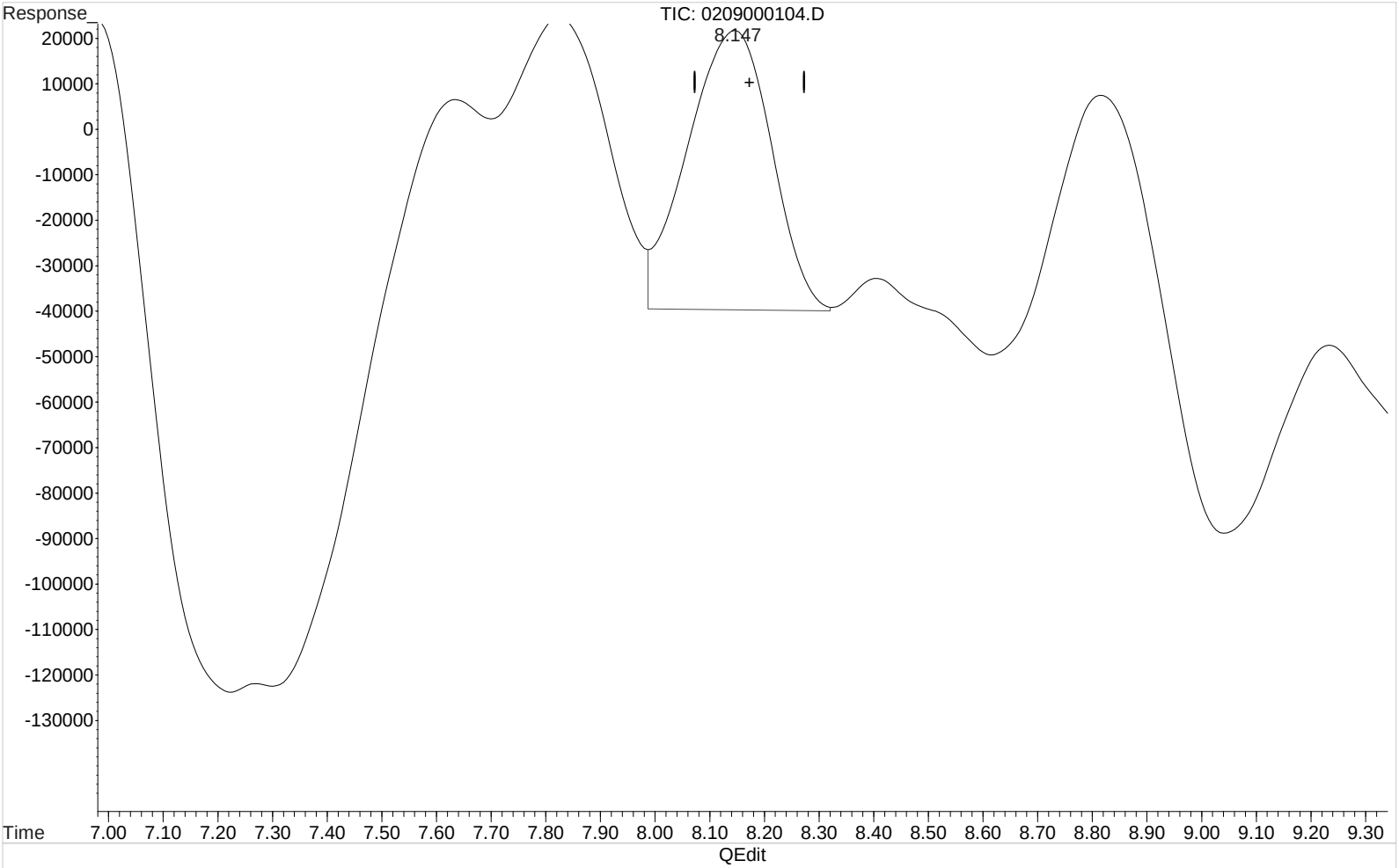
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000104.D Vial: 2
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:44 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:32:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

8.147min 9.384 ug/L m

response 652772

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

(b) (6)
1st 02/13/17
2n 02/17/17

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	8.133	3061814	43.366 ug/L m
Target Compounds				
1) T	Nitroglycerin	3.793	1022712	48.804 ug/L m
2) T	PETN	6.993	3642903	44.021 ug/L m

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

(b) (6)

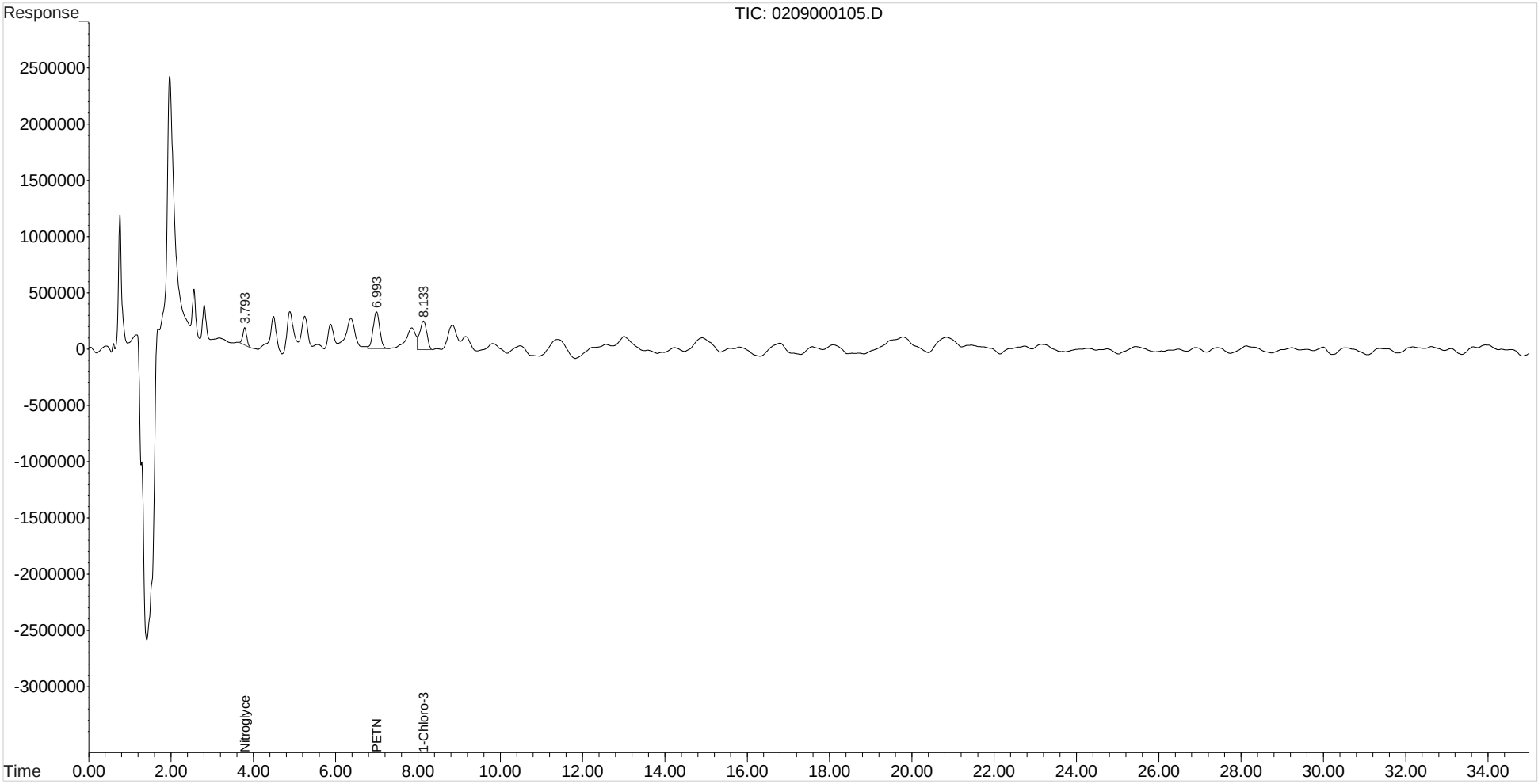
1s 02/13/17

2 02/17/17

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:32:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

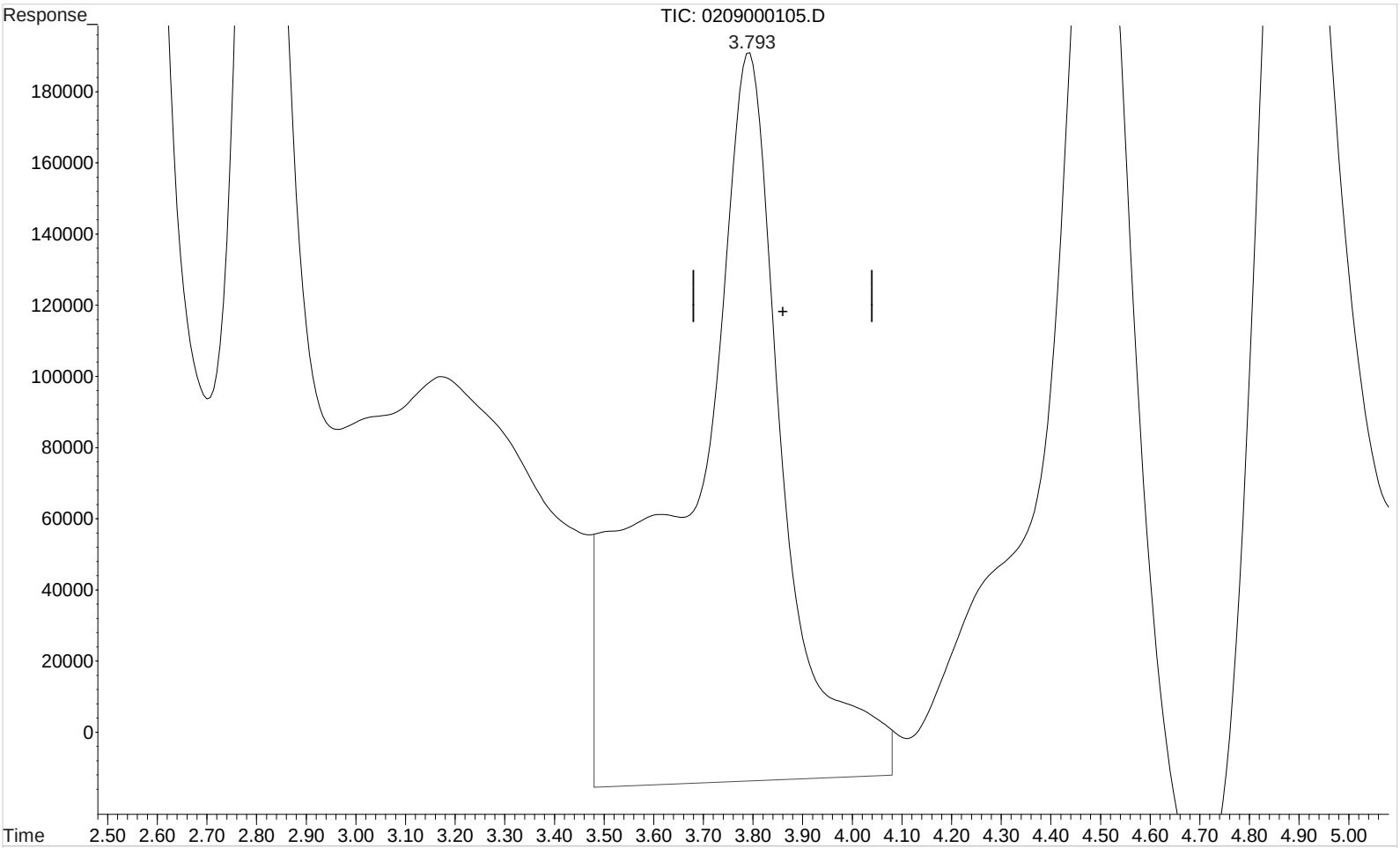


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:25 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.793min 133.146 ug/L

response 2790132

Manual Integration:

Before

02/10/17

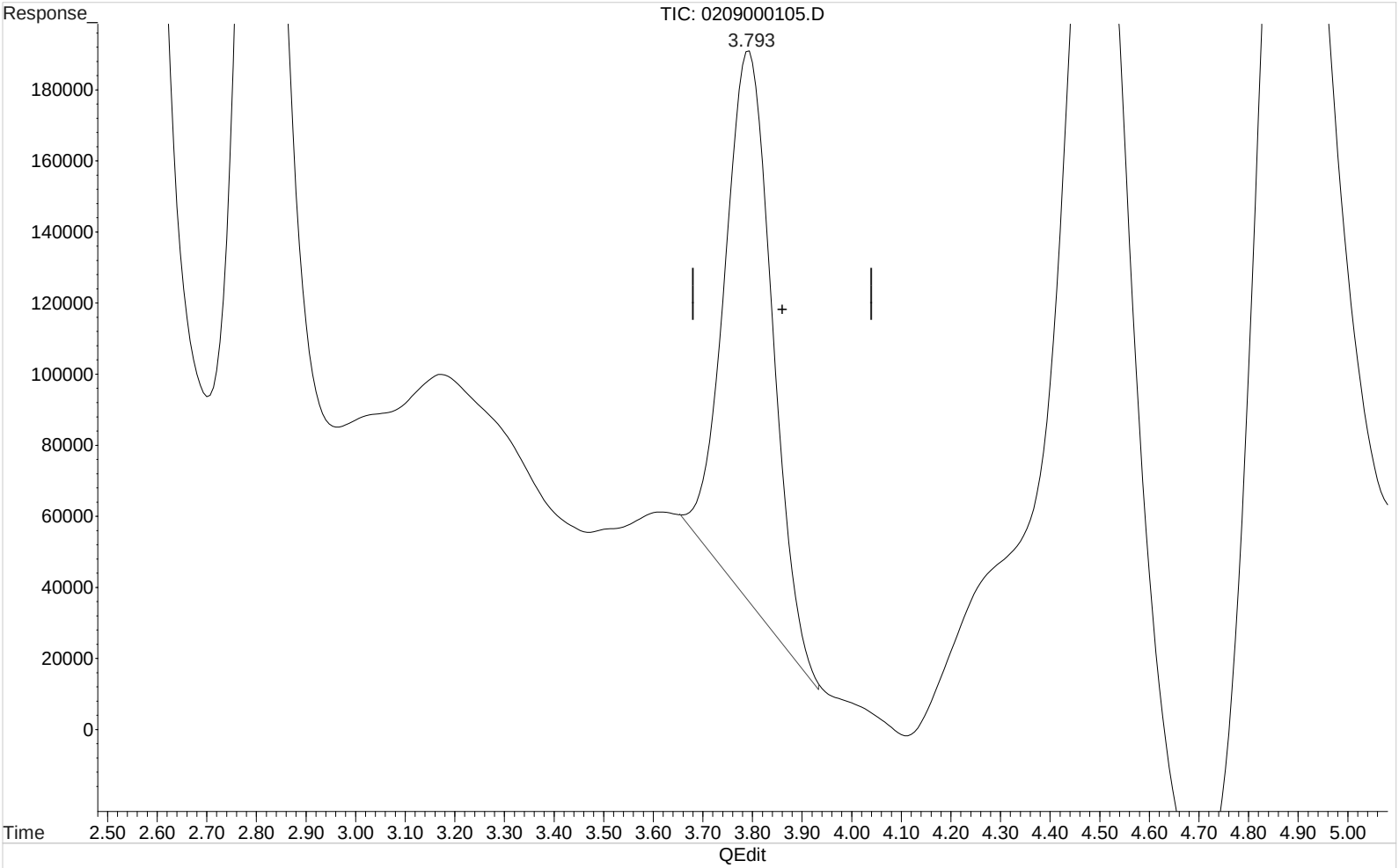
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:25 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.793min 48.804 ug/L m

response 1022712

Manual Integration:

After

BLC

02/10/17

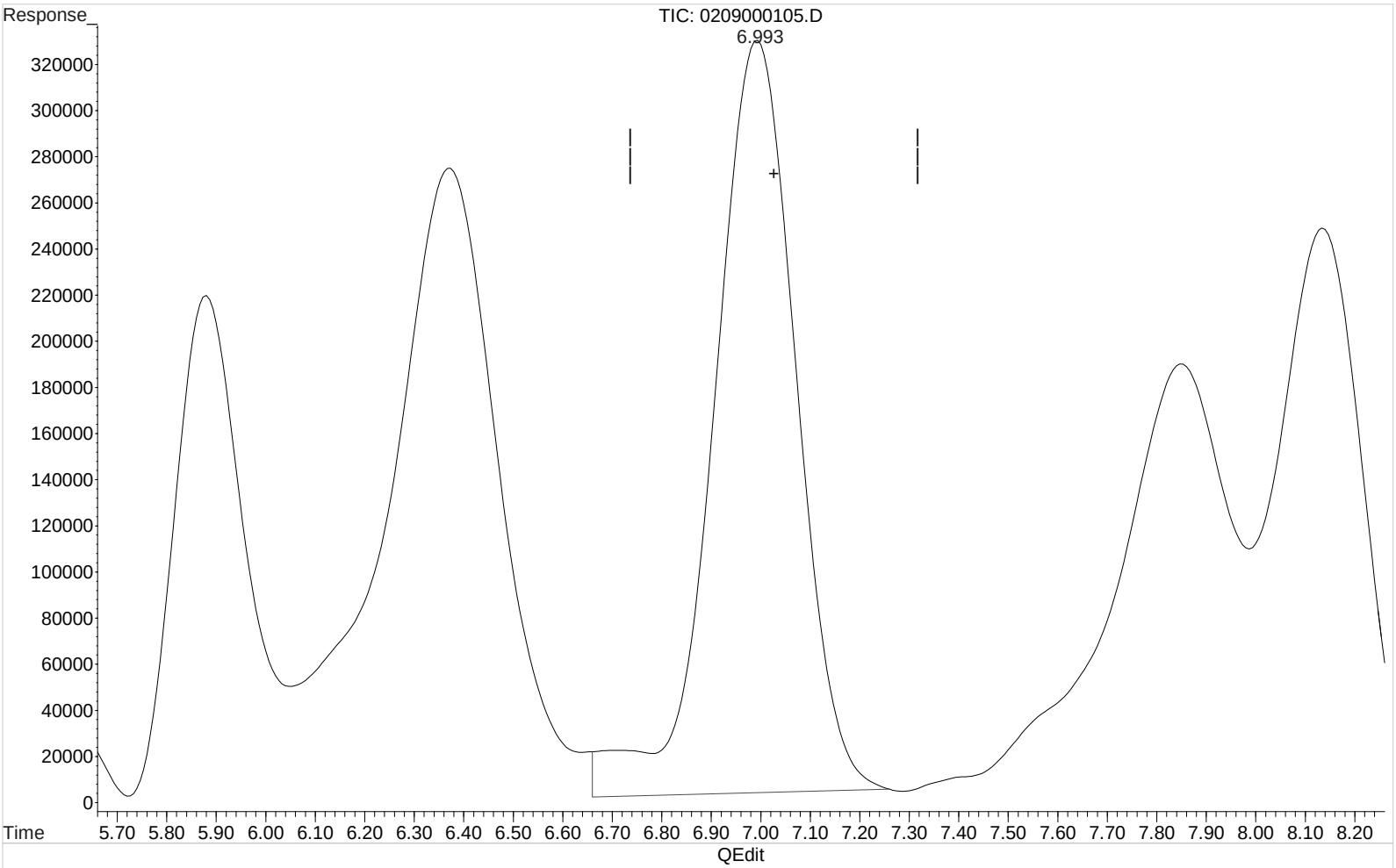
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:25 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.993min 45.943 ug/L

response 3802017

Manual Integration:

Before

02/10/17

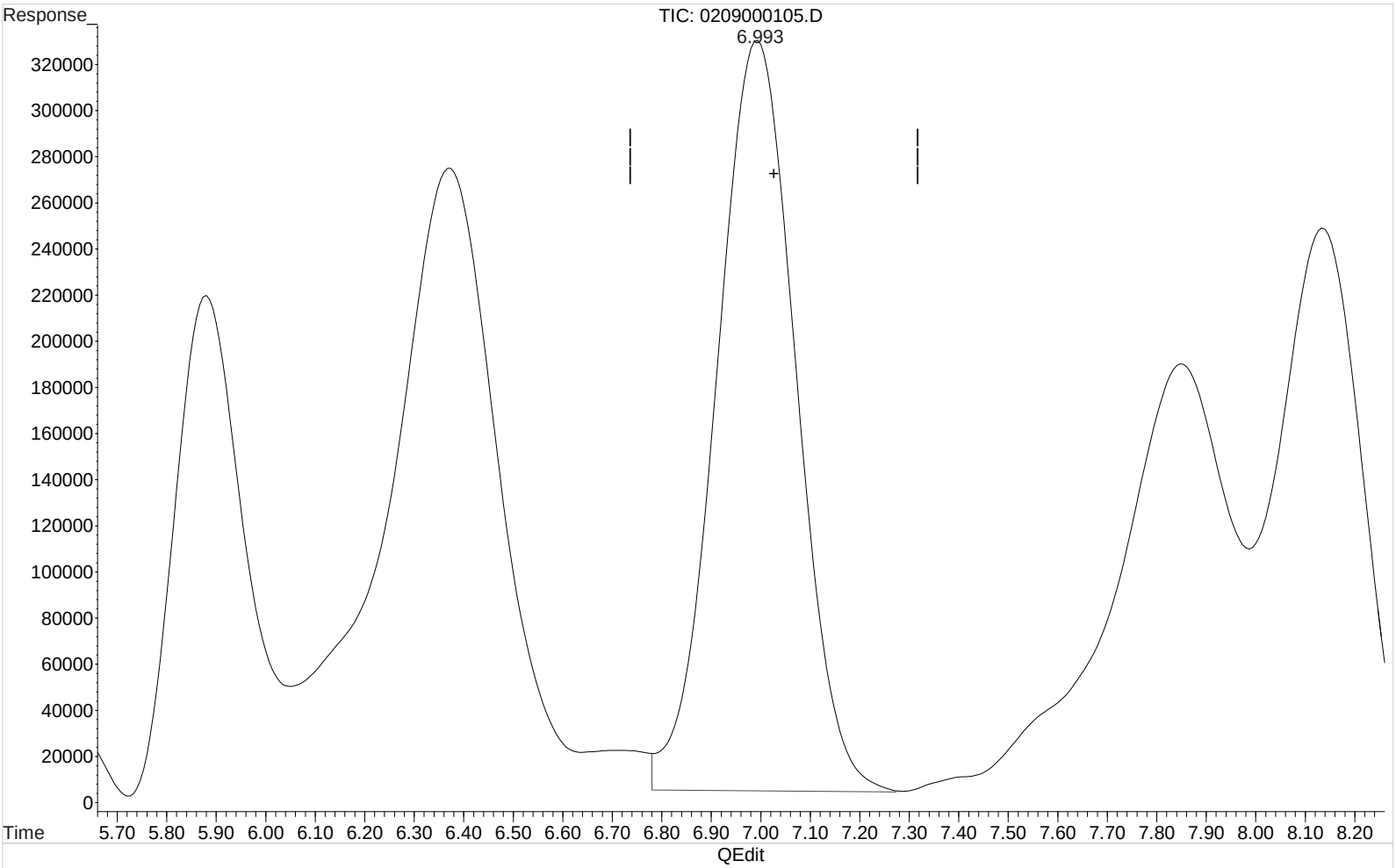
(+) = Expected Retention Time

(b)
(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:25 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.993min 44.021 ug/L m

response 3642903

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

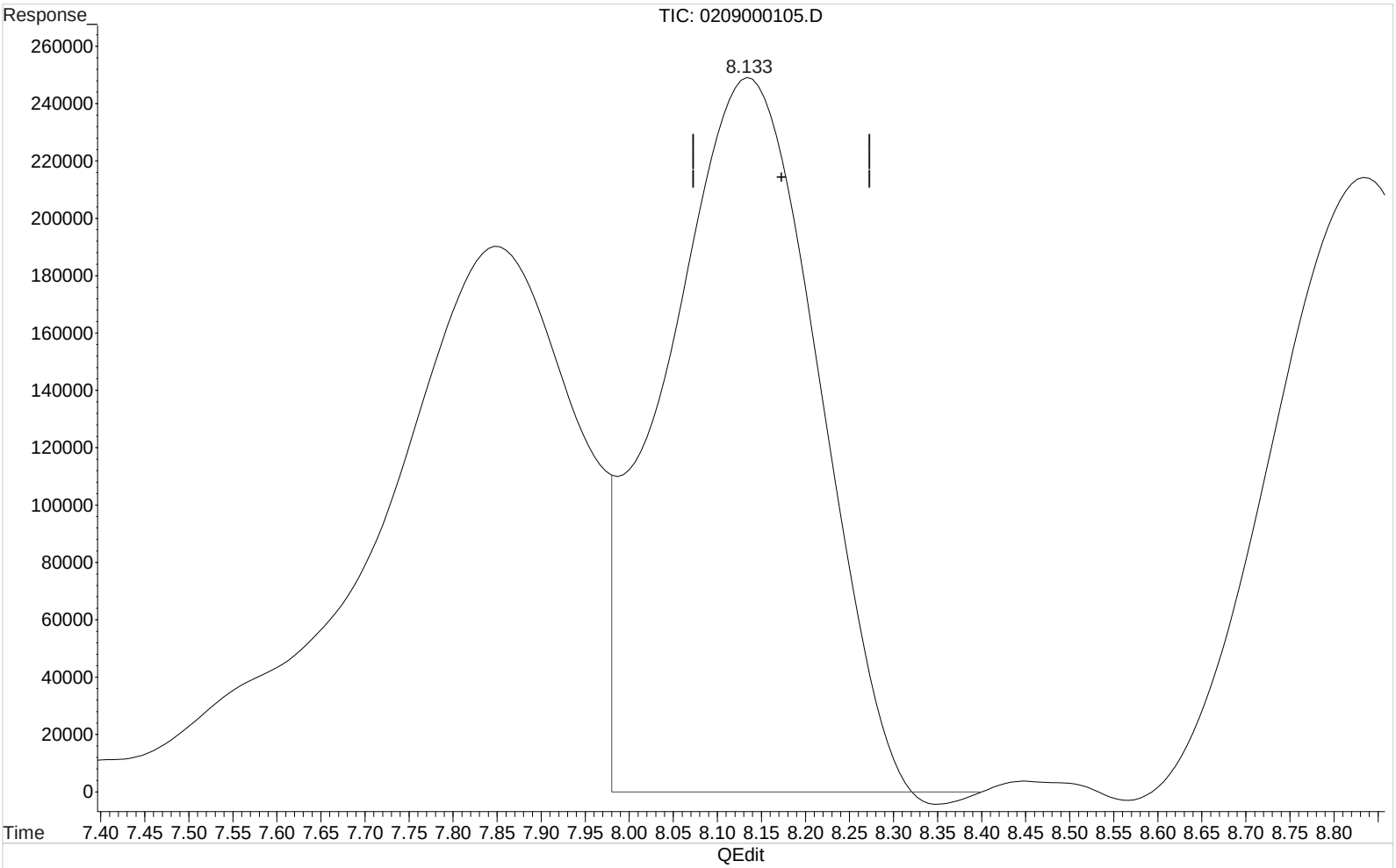
Quantitation Report (Qedit)

(b) (6)
1st 2/13/17
2n 2/17/17

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:25 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.133min 41.867 ug/L

response 2955960

Manual Integration:

Before

02/10/17

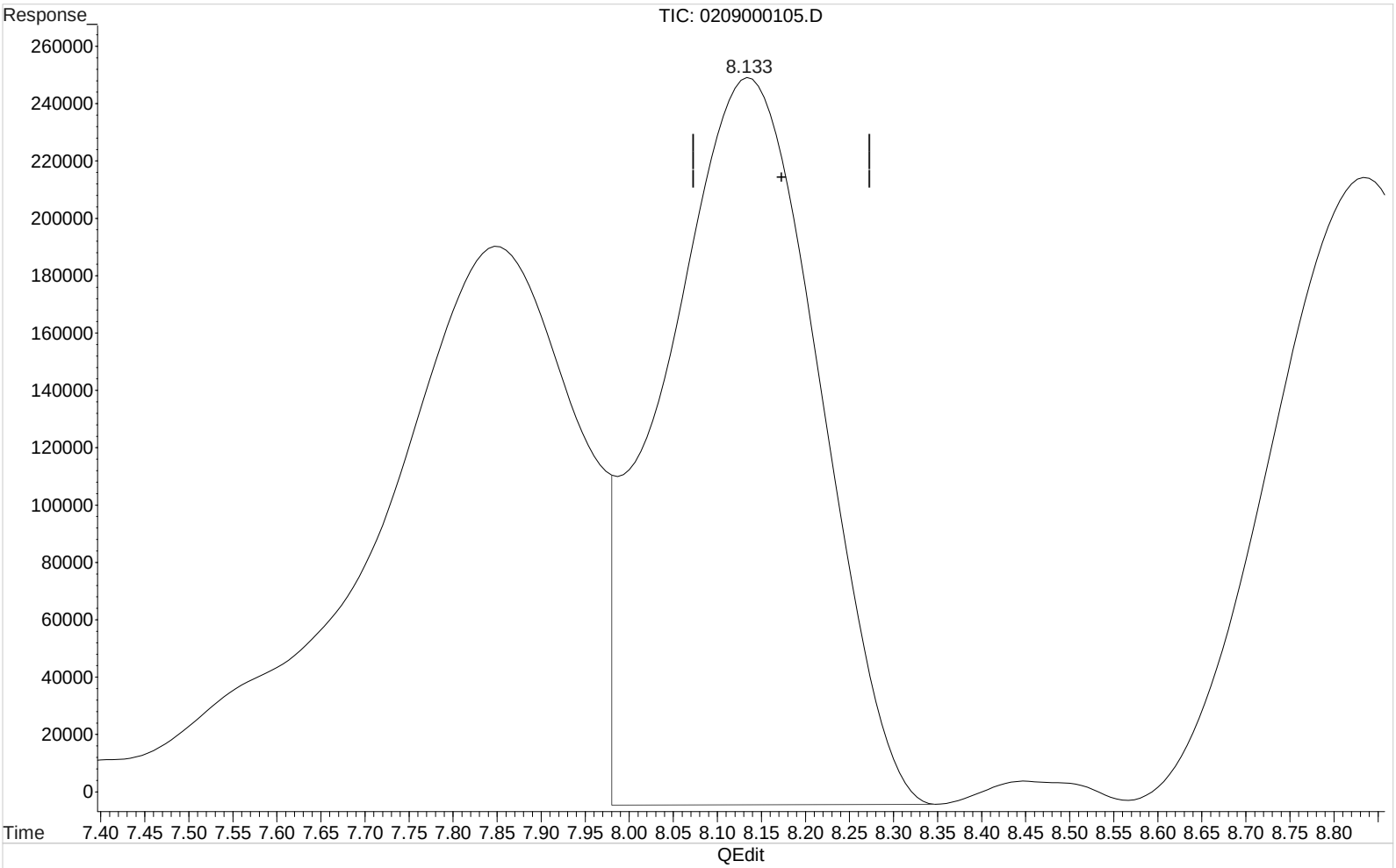
(+) = Expected Retention Time

(b)(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-210\0209000105.D Vial: 3
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:25 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:31:16 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.133min 43.366 ug/L m

response 3061814

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:09 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	8.147	7680230	110.160 ug/L m
Target Compounds				
1) T	Nitroglycerin	3.787	1979030	93.695 ug/L m
2) T	PETN	6.987	8553205	103.854 ug/L m

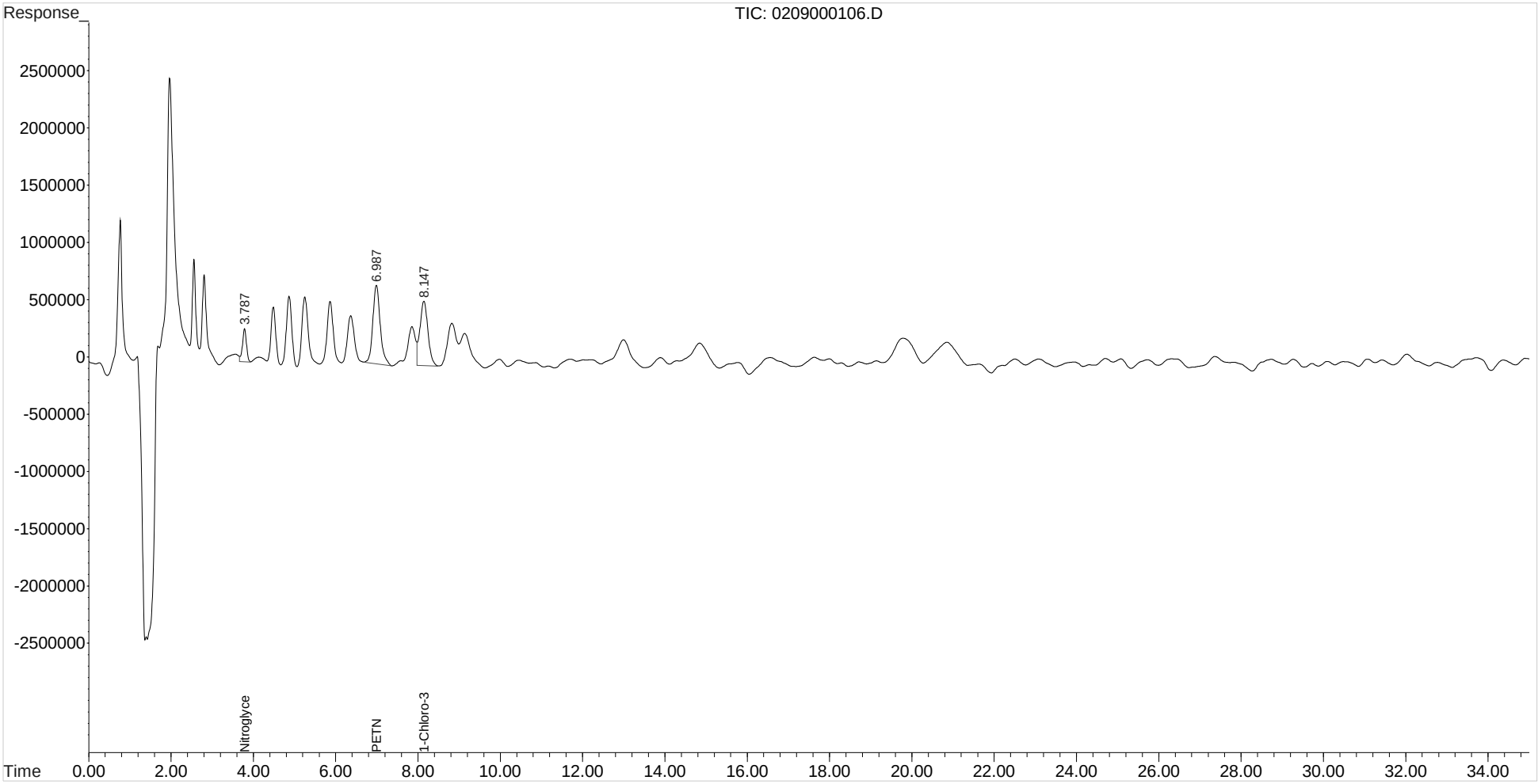
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:31:09 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

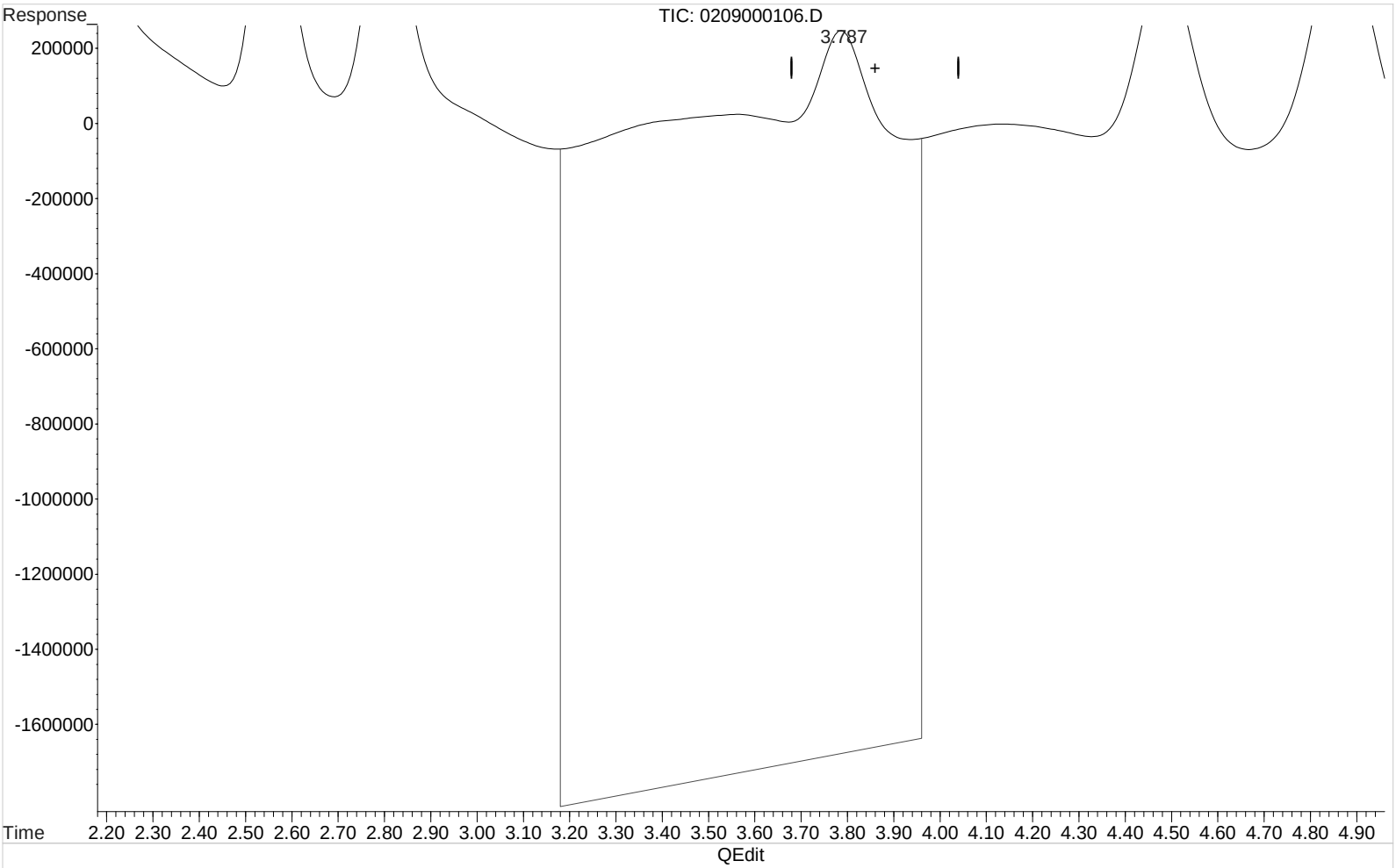


(b)(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:30:06 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.787min 3880.314 ug/L

response 81959818

Manual Integration:

Before

02/10/17

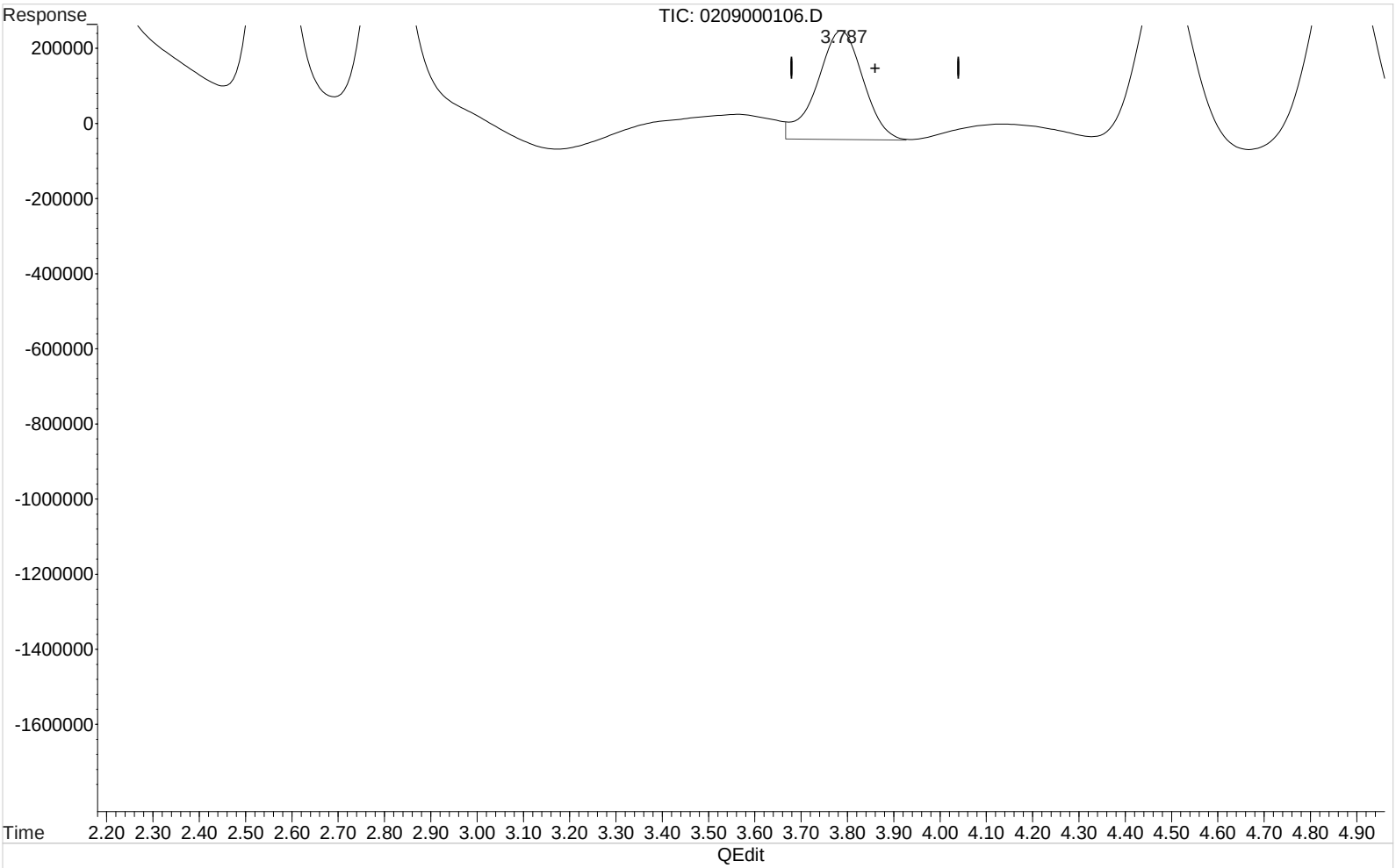
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:30:06 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.787min 93.695 ug/L m

response 1979030

Manual Integration:

After

BLC

02/10/17

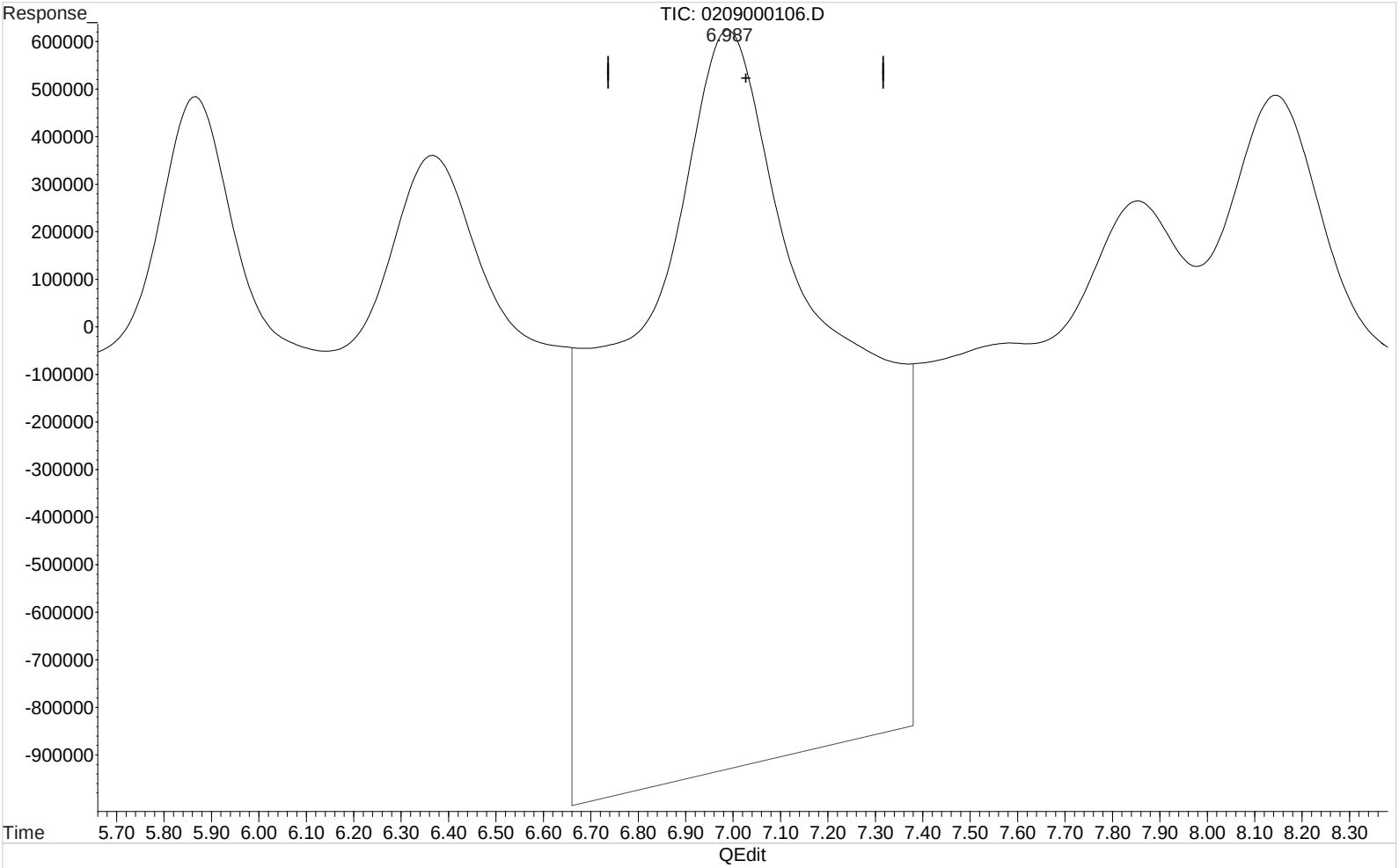
(+) = Expected Retention Time

(b)(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:30:06 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.987min 555.668 ug/L

response 45763665

Manual Integration:

Before

02/10/17

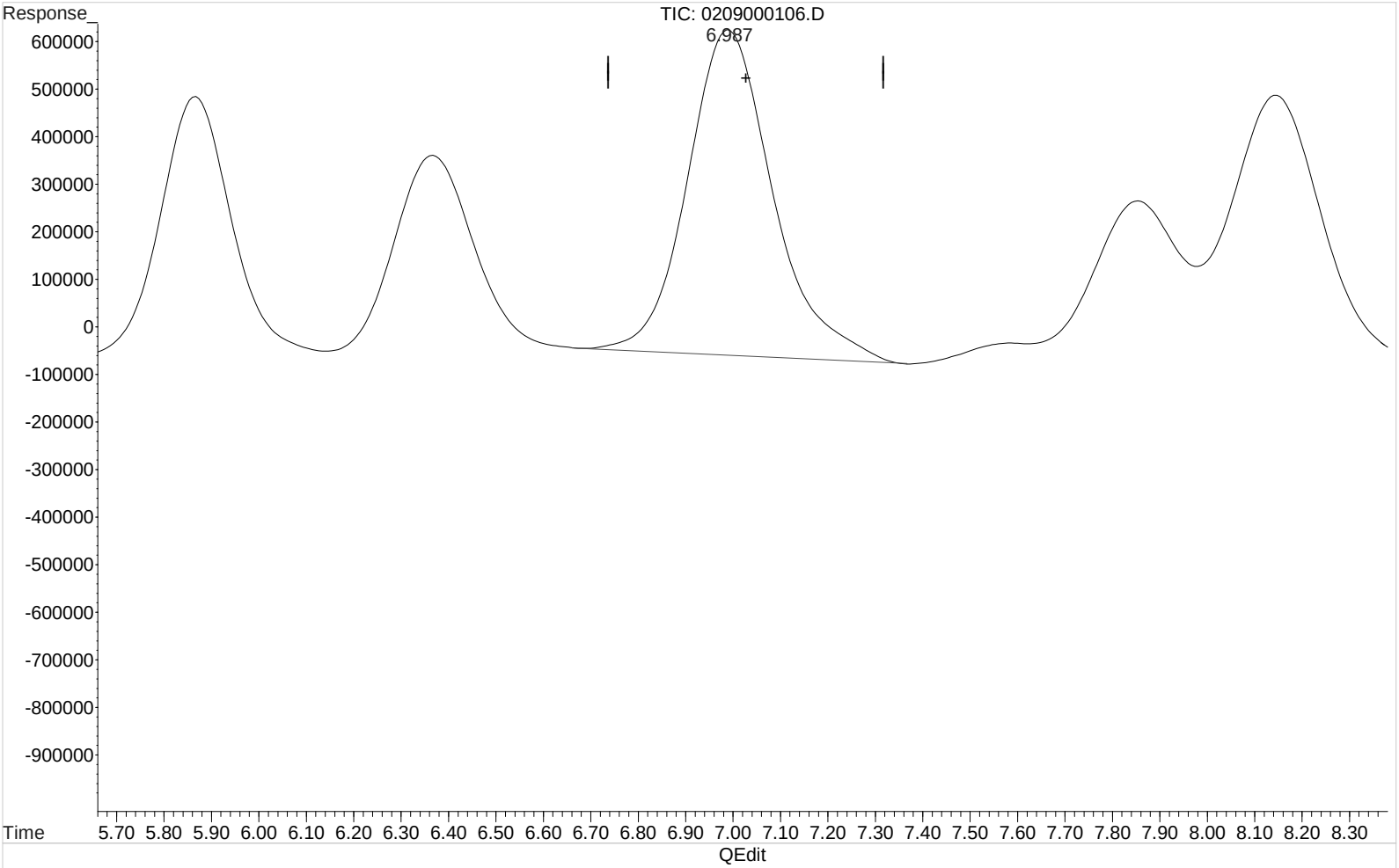
(+) = Expected Retention Time

(b)
(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:30:06 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.987min 103.854 ug/L m

response 8553205

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

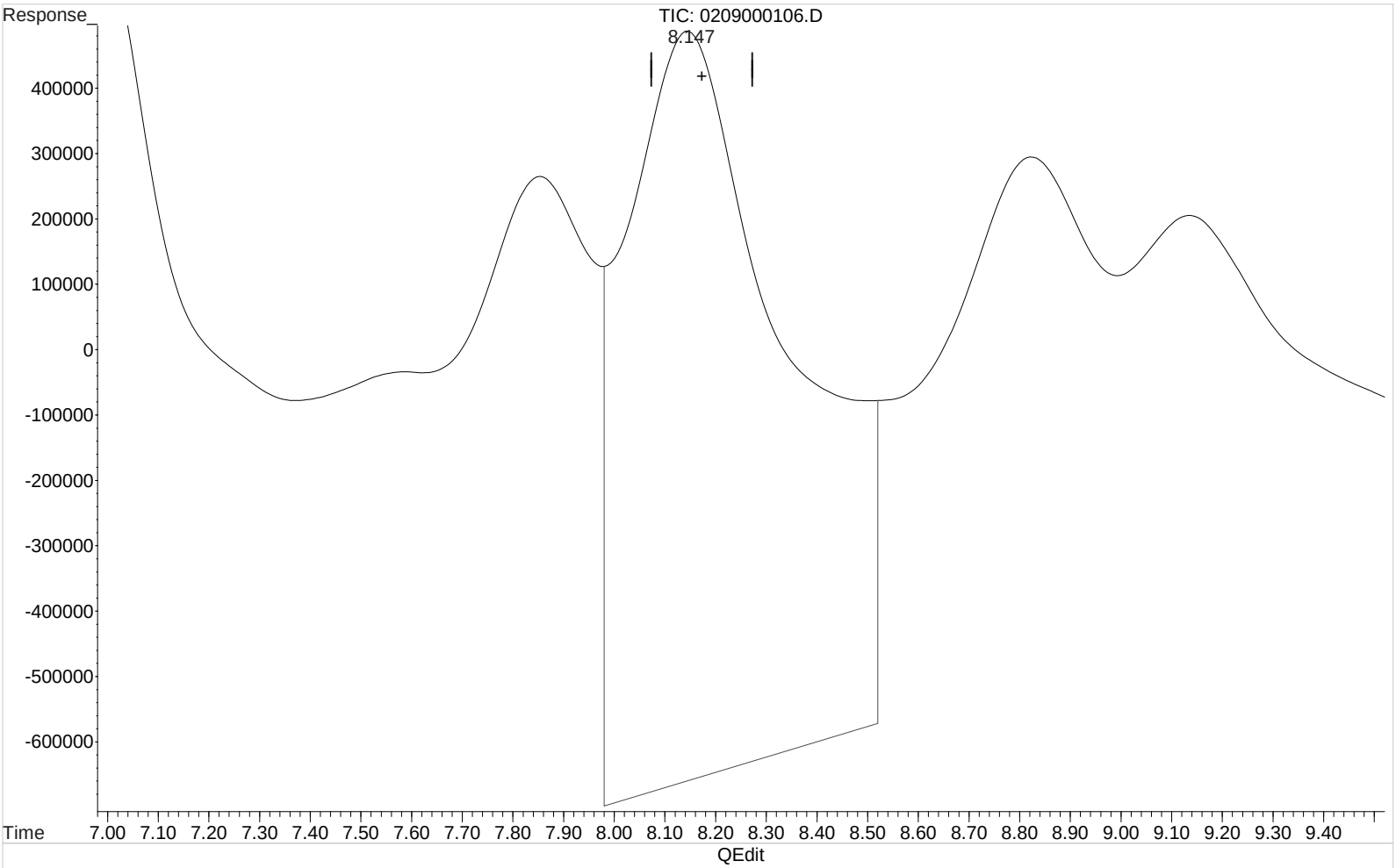
1st 02/13/17

2nd 02/17/17

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:30:06 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.147min 368.214 ug/L

response 25671459

Manual Integration:

Before

02/10/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

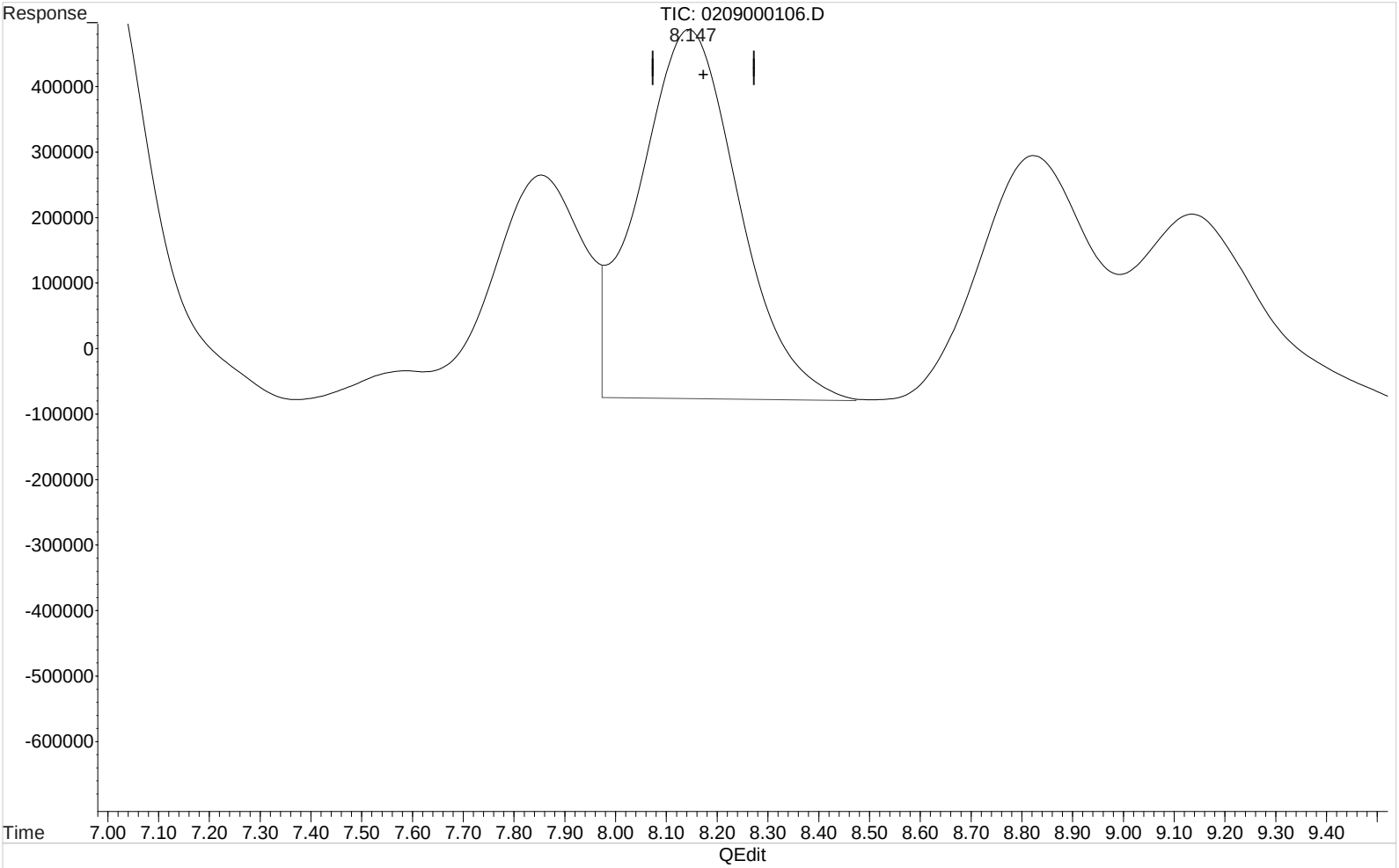
1st 02/13/17

2n 02/17/17

Data File : J:\LC08\Data\020917XC-210\0209000106.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:30:06 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:29:57 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.147min 110.160 ug/L m

response 7680230

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:29:46 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	8.133	13561422	193.631 ug/L m
Target Compounds				
1) T	Nitroglycerin	3.780	3978902	186.571 ug/L m
2) T	PETN	6.980	17566508	215.684 ug/L m

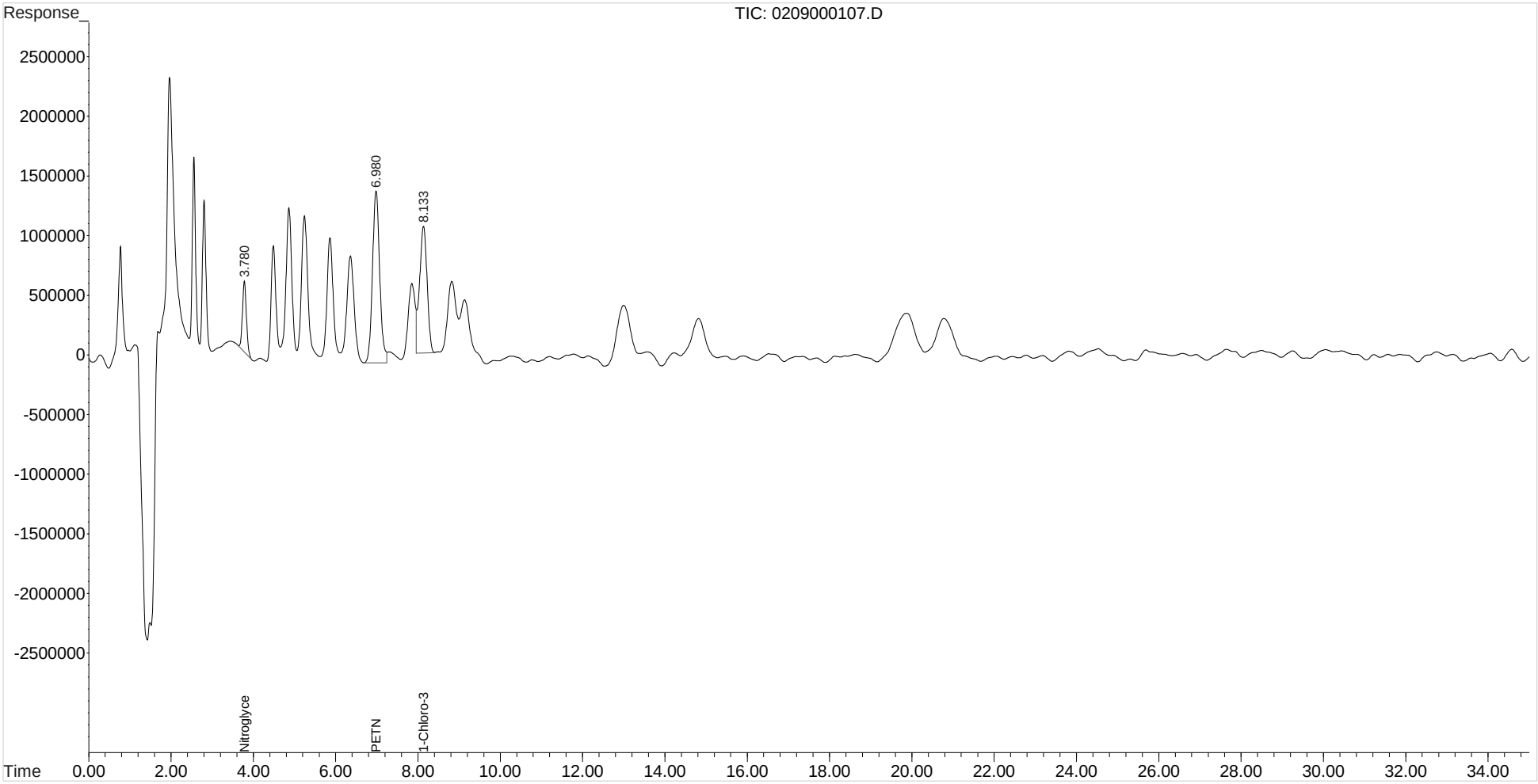
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:29:46 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

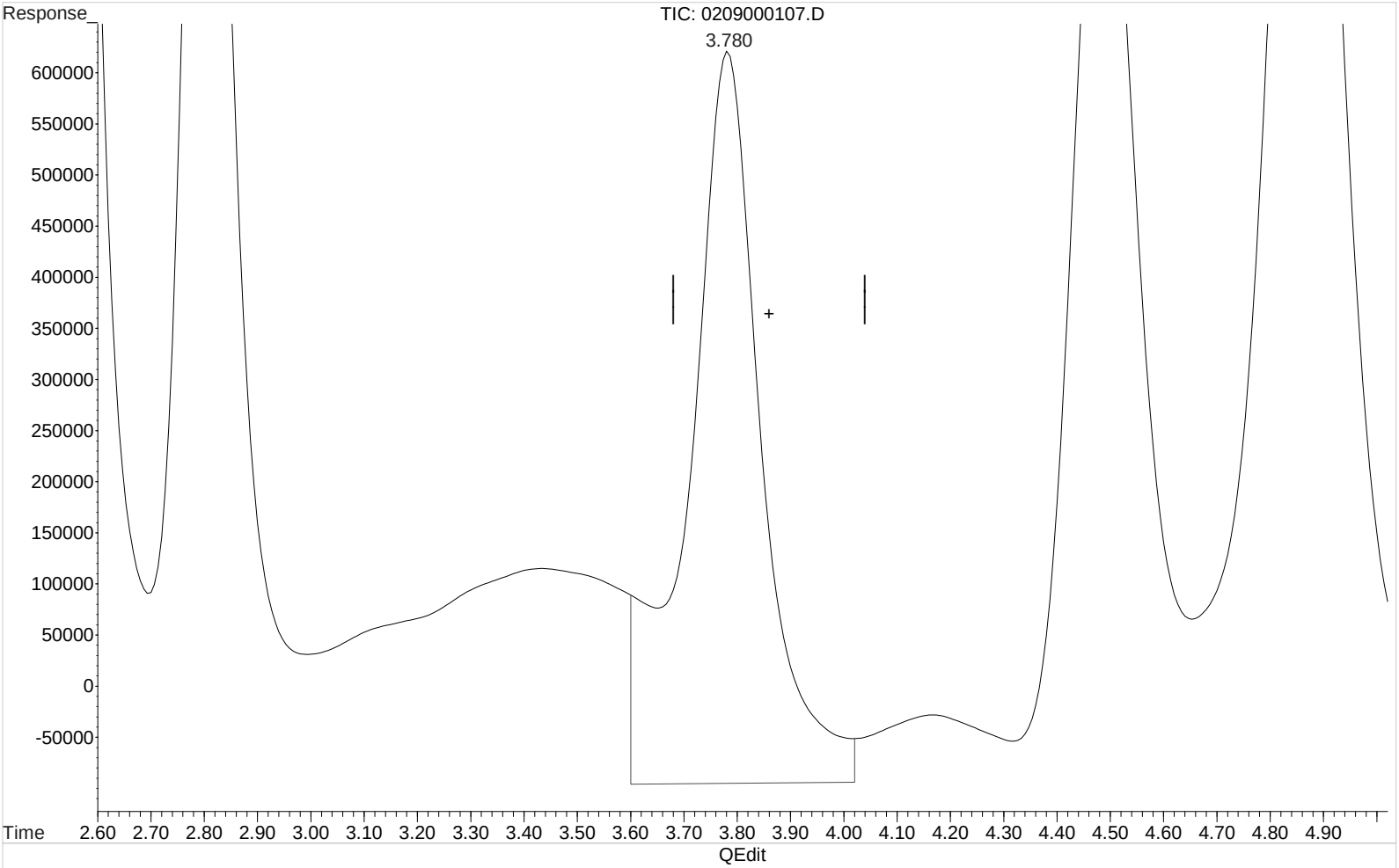


(b) (6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:42 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.780min 317.059 ug/L

response 6761779

Manual Integration:

Before

02/10/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

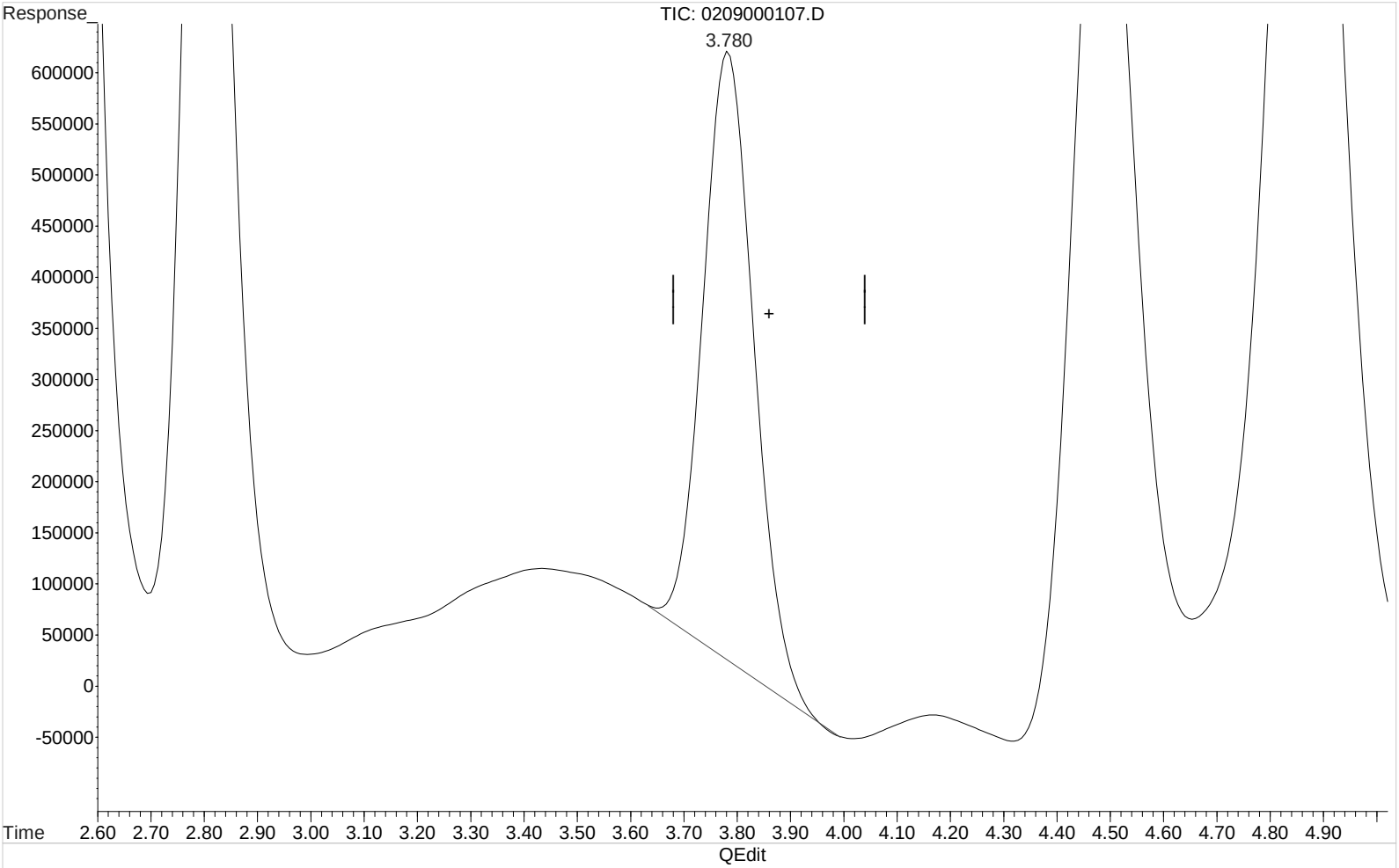
1st 02/13/17

2nd 02/17/17

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:42 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.780min 186.571 ug/L m

response 3978902

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

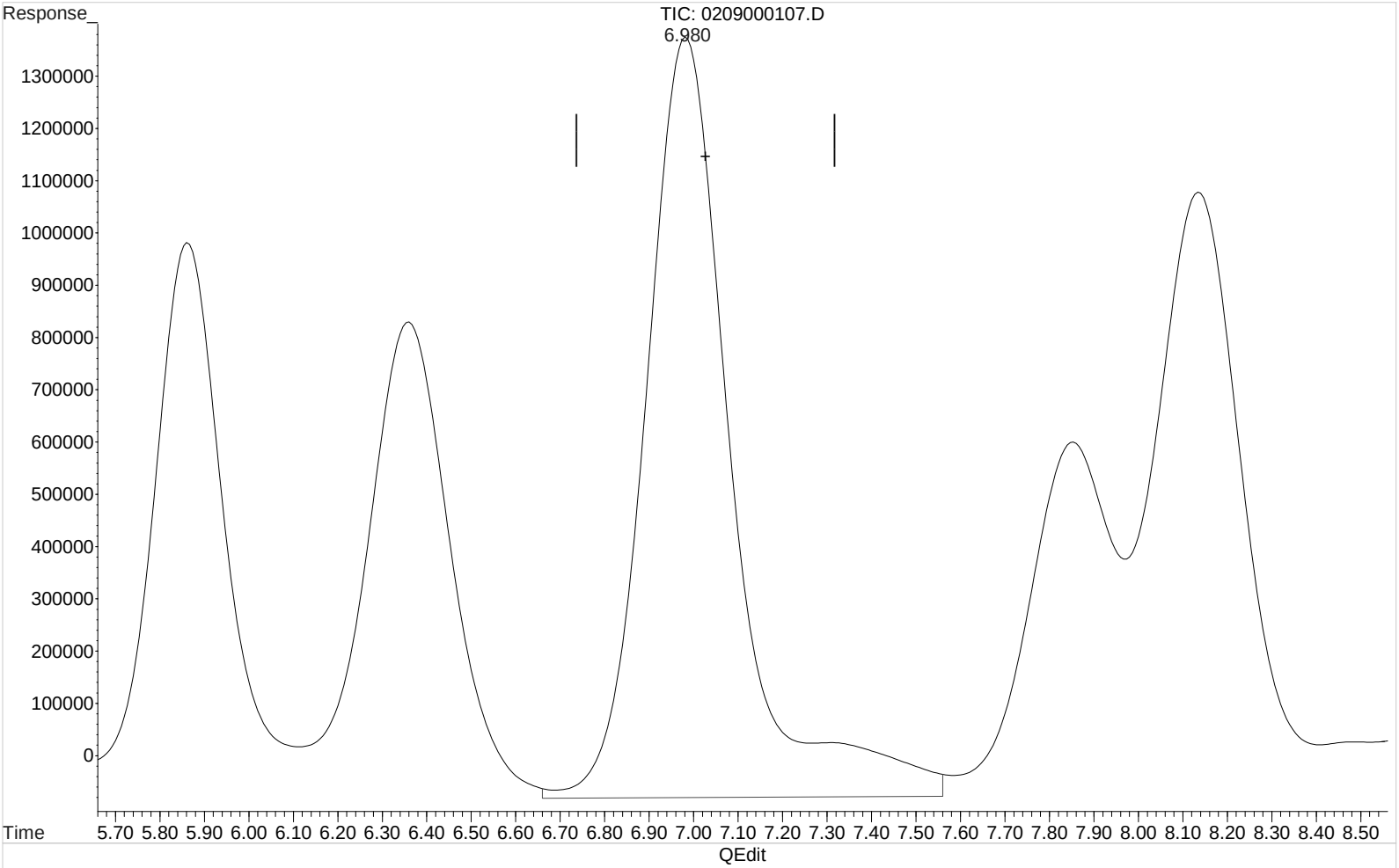
Quantitation Report (Qedit)

1st (b)(6) 02/13/17
2nd [redacted] 02/17/17

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:42 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.980min 240.910 ug/L

response 19621034

Manual Integration:

Before

02/10/17

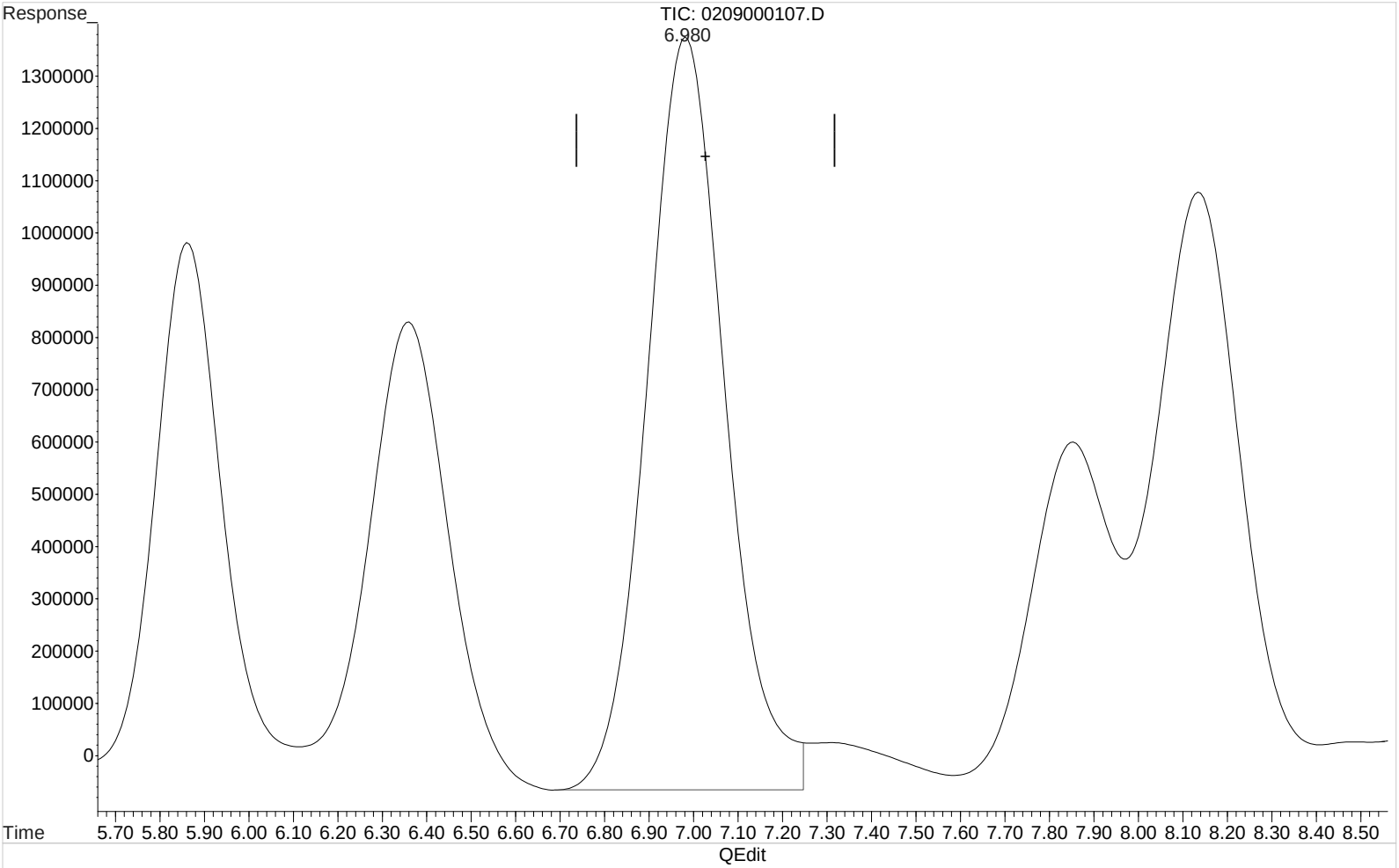
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:42 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.980min 215.684 ug/L m

response 17566508

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

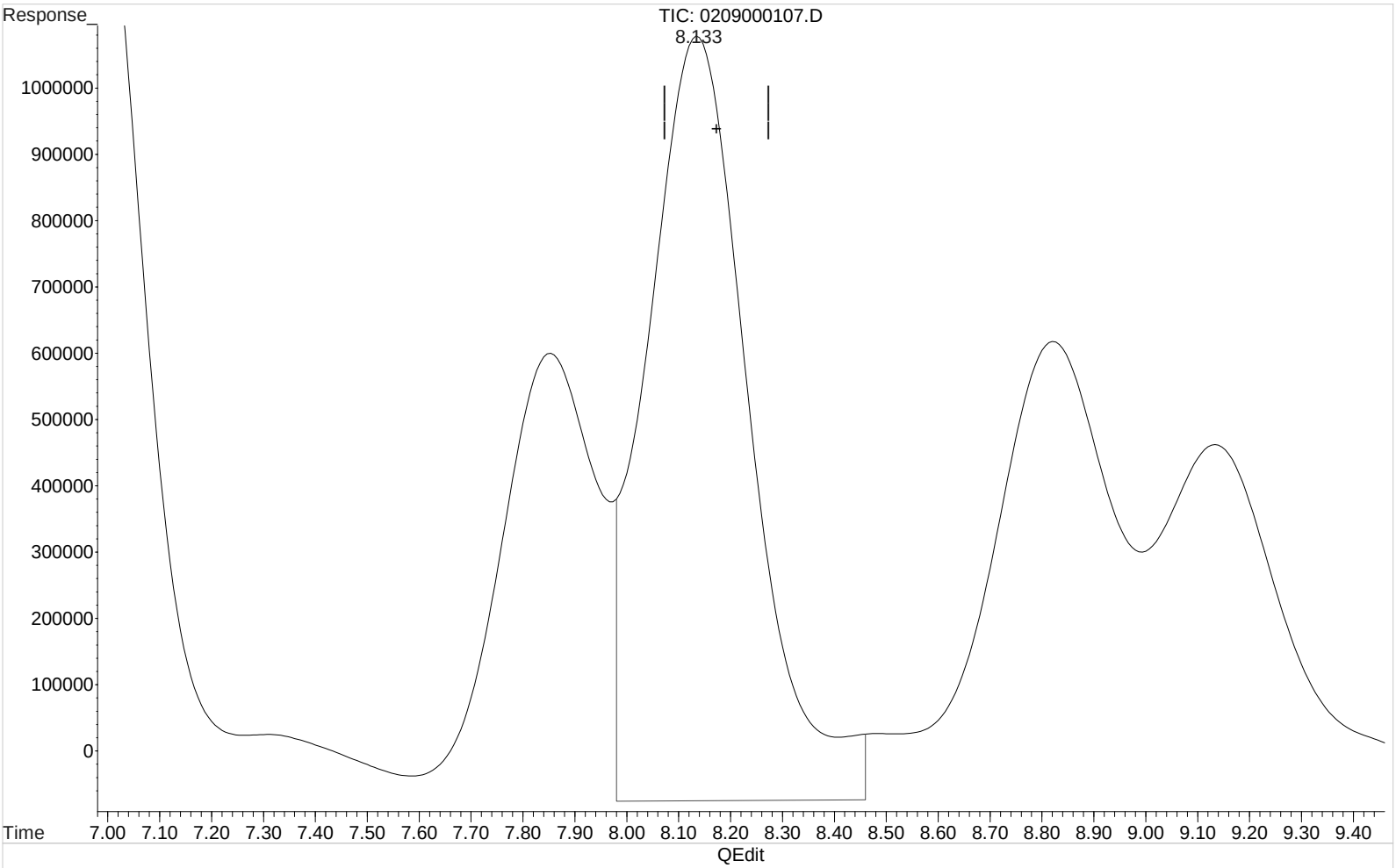
Quantitation Report (Qedit)

1st (b) (6) 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:42 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.133min 225.281 ug/L

response 15778076

Manual Integration:

Before

02/10/17

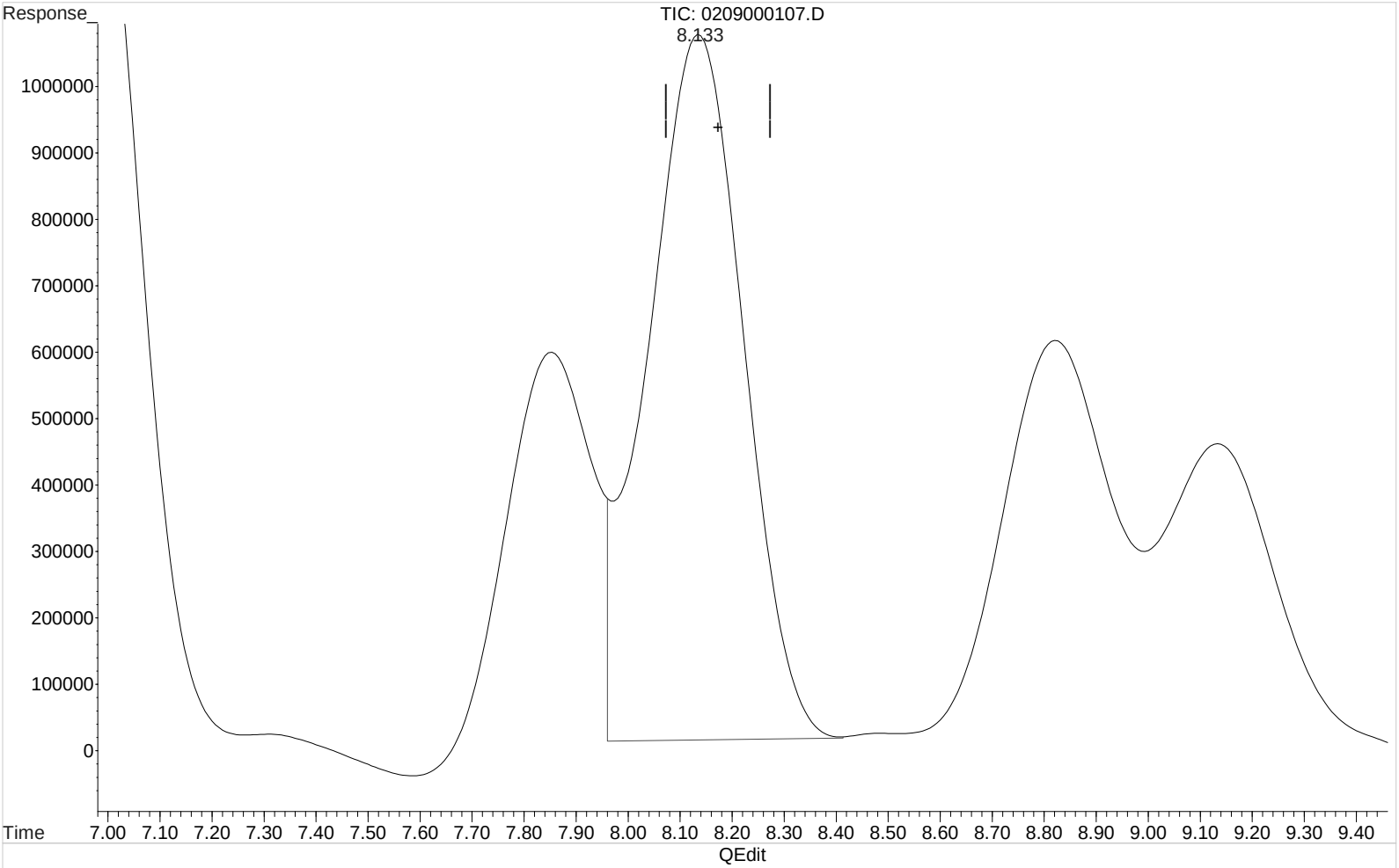
(+) = Expected Retention Time

(b) (6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-210\0209000107.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:42 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:28:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.133min 193.631 ug/L m

response 13561422

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

(b)(6)
1st 02/13/17
2nd 02/17/17

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000108.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:14 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:27:33 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	8.153	35971989	516.422 ug/L
Target Compounds				
1) T	Nitroglycerin	3.800	11272556	534.680 ug/L m
2) T	PETN	6.993	42145946	521.117 ug/L m

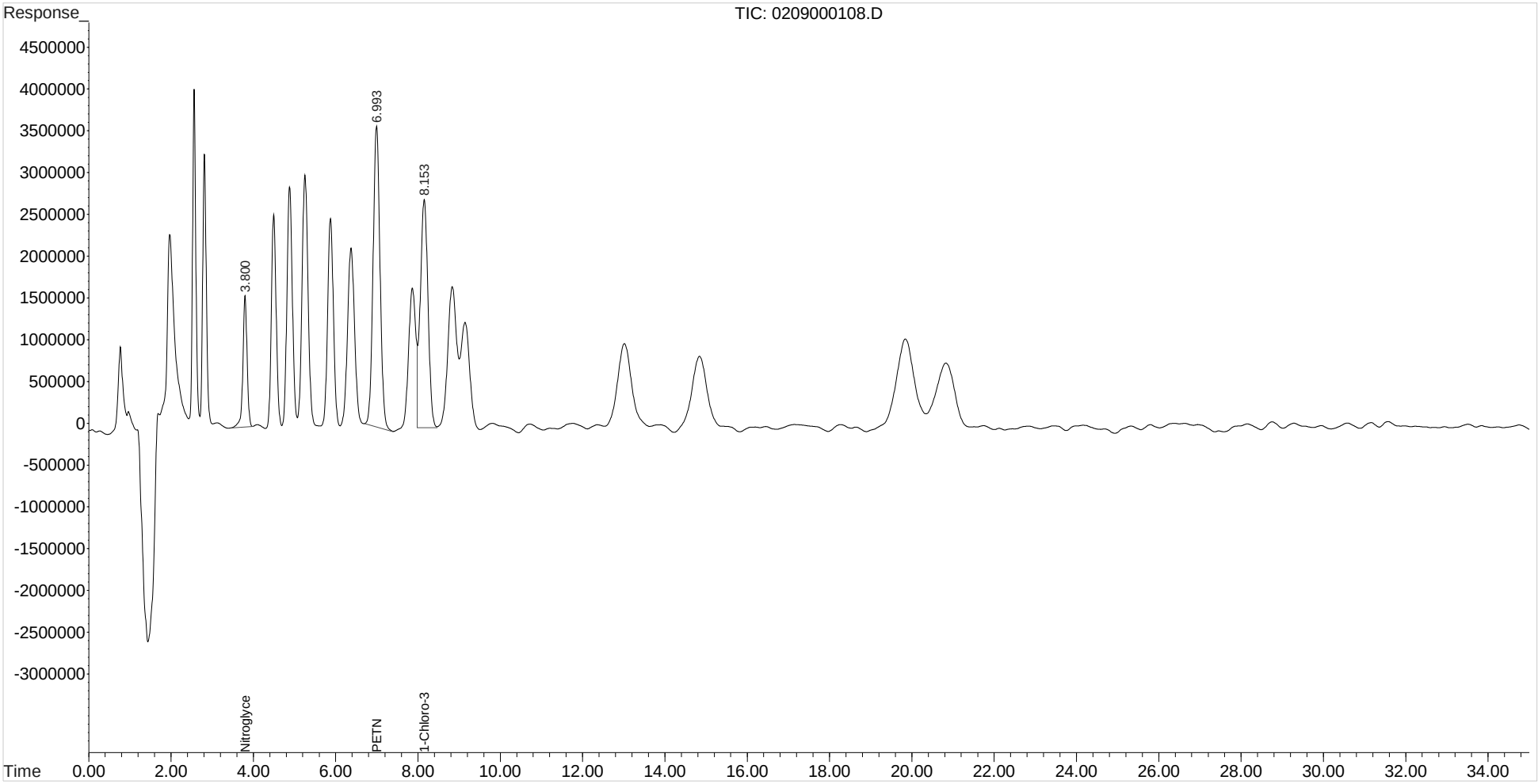
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000108.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:28:14 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:27:33 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



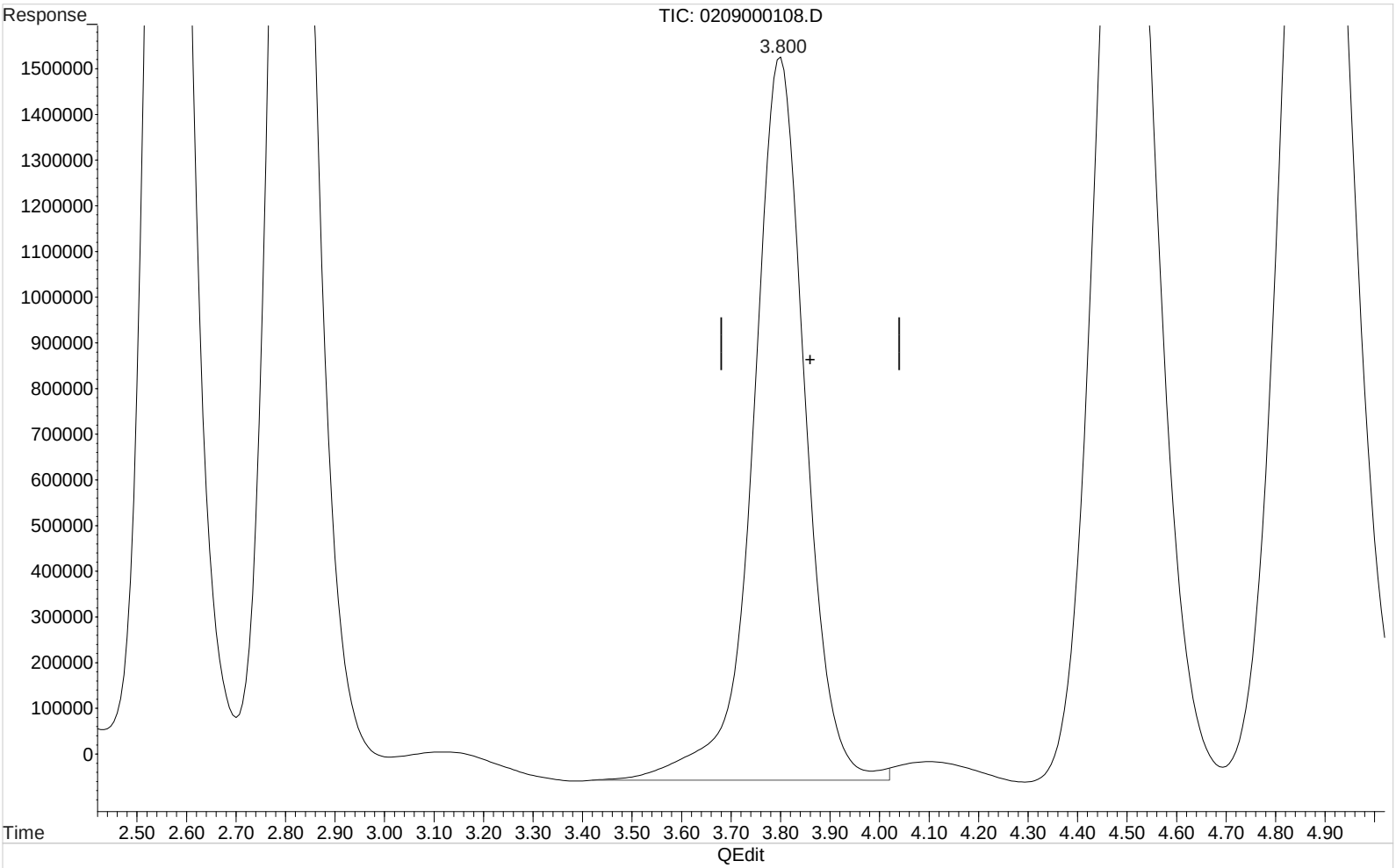
Quantitation Report (Qedit)

(b) (6)
1st 02/13/17
2n 02/17/17

Data File : J:\LC08\Data\020917XC-210\0209000108.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:43 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:27:33 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.800min 552.022 ug/L

response 11638168

Manual Integration:

Before

02/10/17

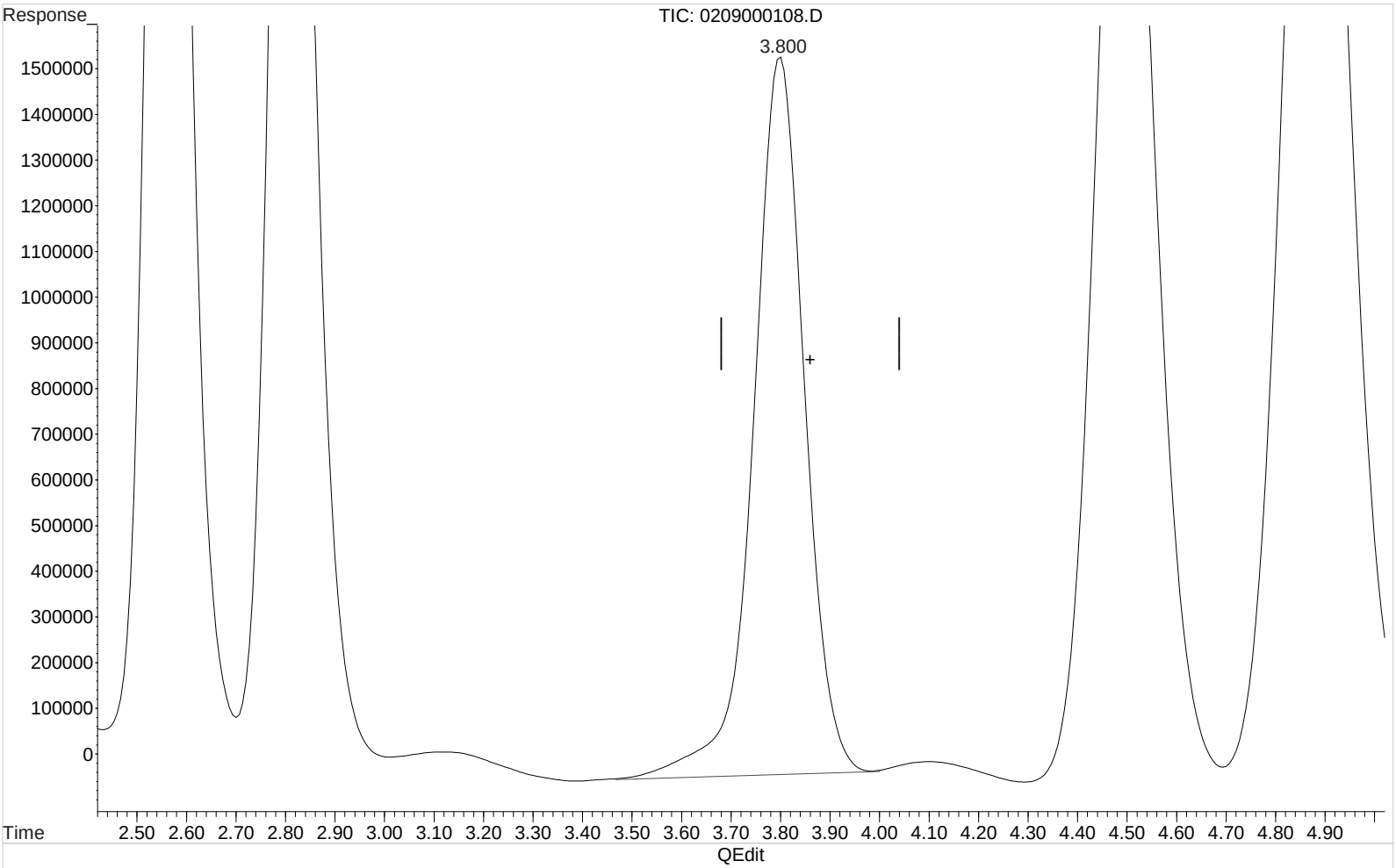
(+) = Expected Retention Time

(b) (6)
1st [redacted] 02/13/17
2nd [redacted] 02/17/17

Data File : J:\LC08\Data\020917XC-210\0209000108.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:43 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:27:33 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.800min 534.680 ug/L m

response 11272556

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

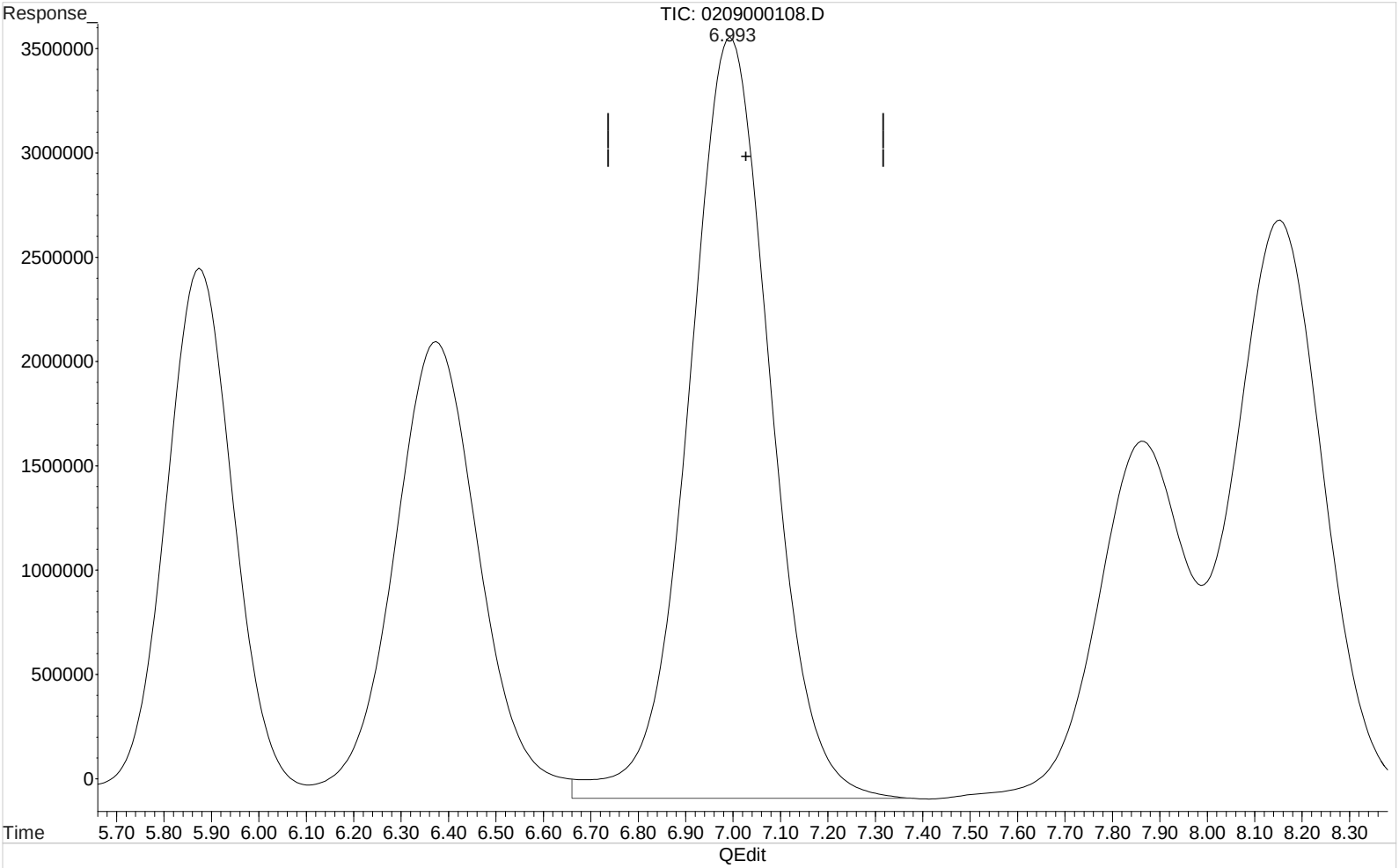
1st 02/13/17

2n 02/17/17

Data File : J:\LC08\Data\020917XC-210\0209000108.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:43 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:27:33 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.993min 544.802 ug/L

response 44061458

Manual Integration:

Before

02/10/17

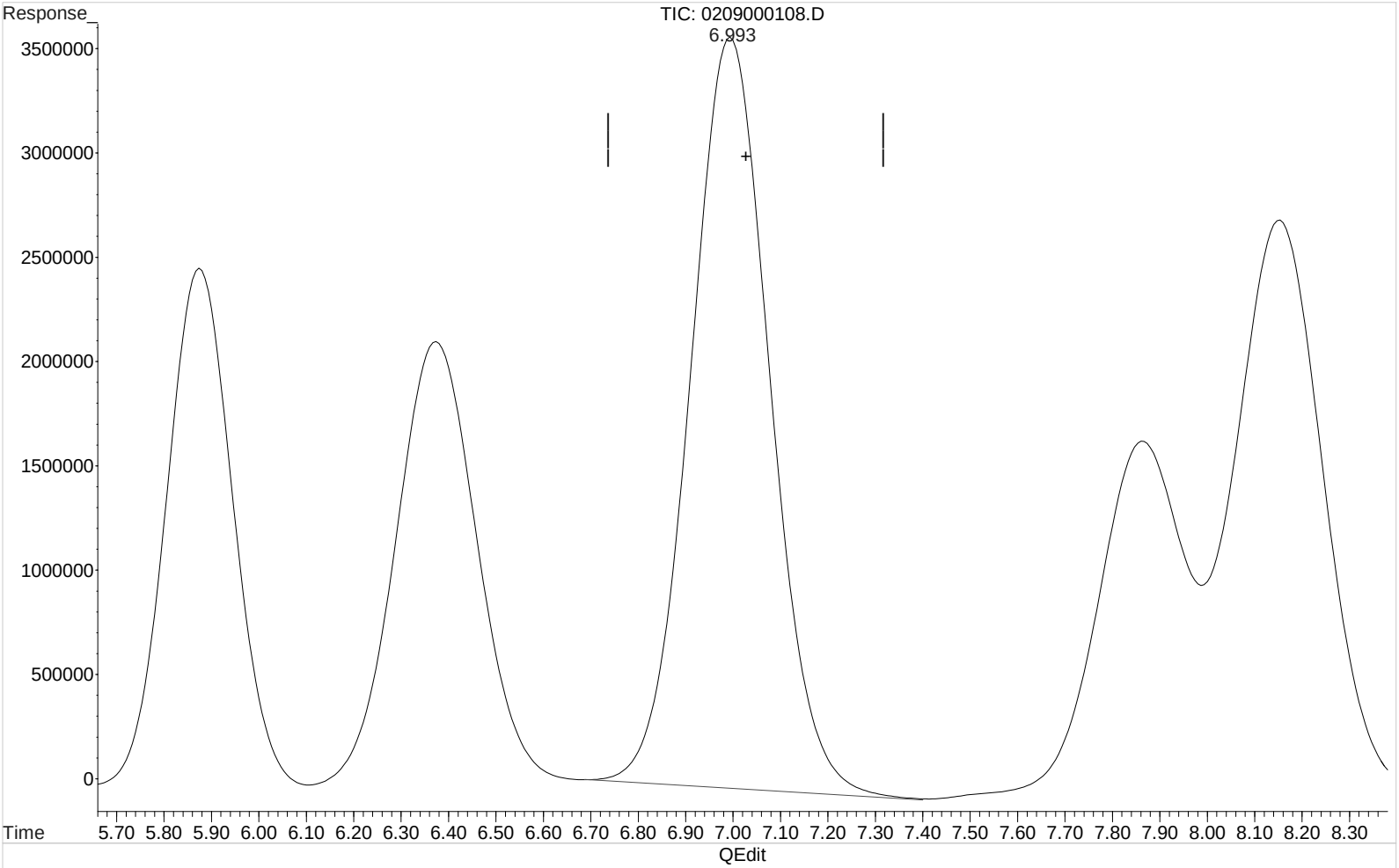
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000108.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:43 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:27:33 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.993min 521.117 ug/L m

response 42145946

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

(b) (6)
1st 2/13/17
2n 2/17/17

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:23 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:26:45 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	8.140	69921036	1004.758	ug/L	
Target Compounds						
1) T	Nitroglycerin	3.793	21356542	1016.282	ug/L	m
2) T	PETN	6.987	82490148	1025.070	ug/L	m

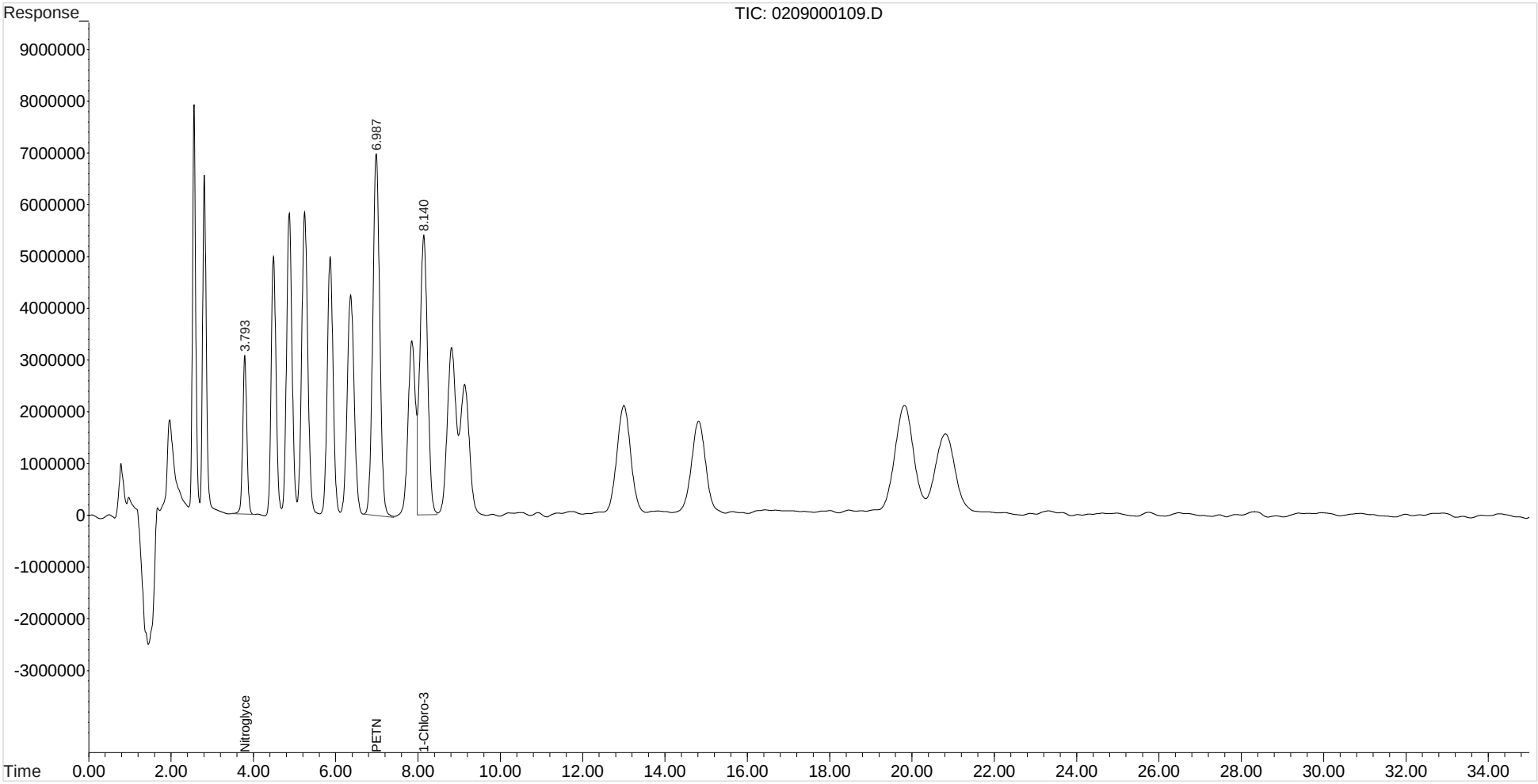
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:23 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:26:45 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



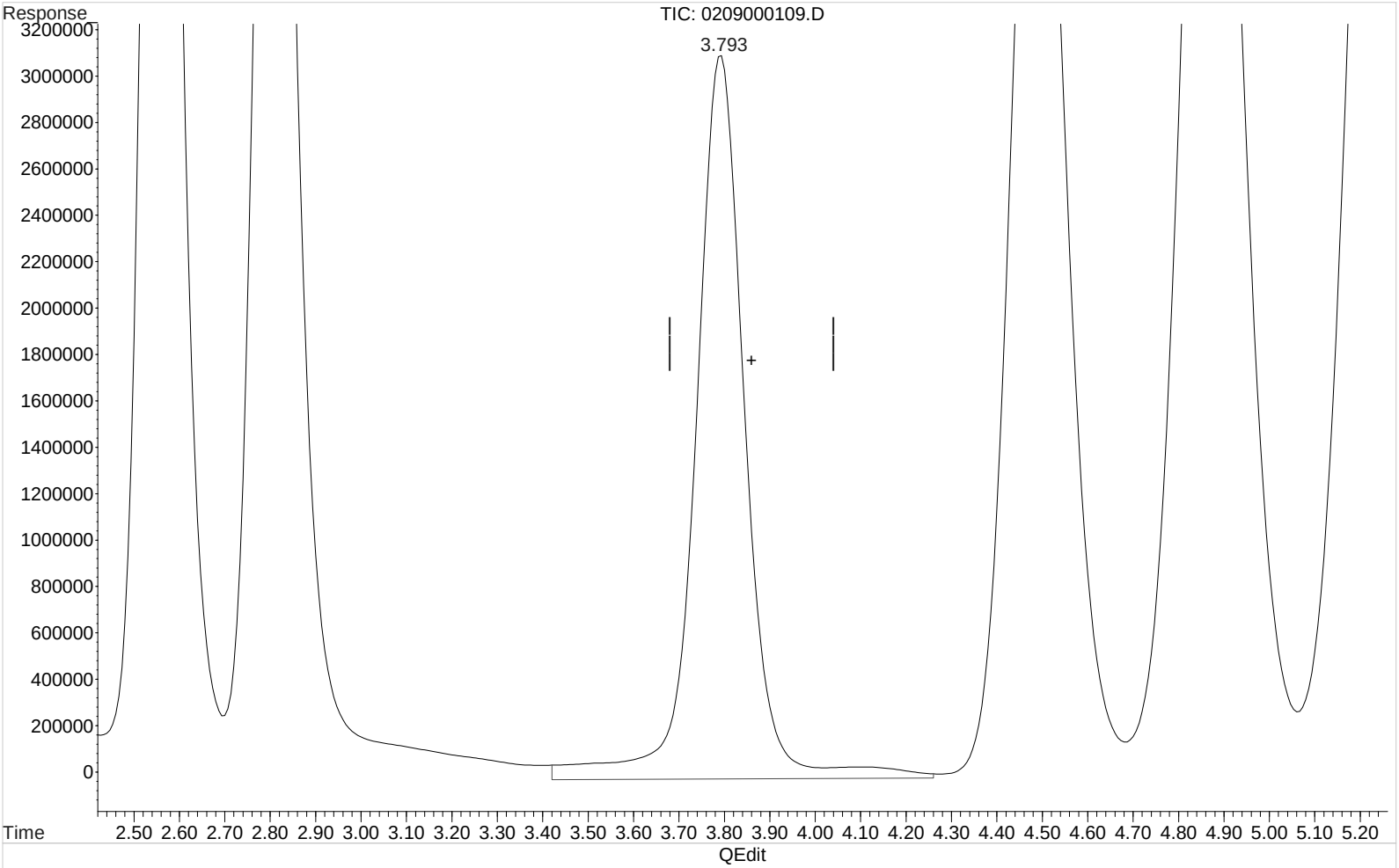
Quantitation Report (Qedit)

1st (b) (6) 2/13/17
2nd [redacted] 2/17/17

Data File : J:\LC08\Data\020917XC-210\0209000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:01 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:26:45 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.793min 1137.163 ug/L

response 23896782

Manual Integration:

Before

02/10/17

(+) = Expected Retention Time

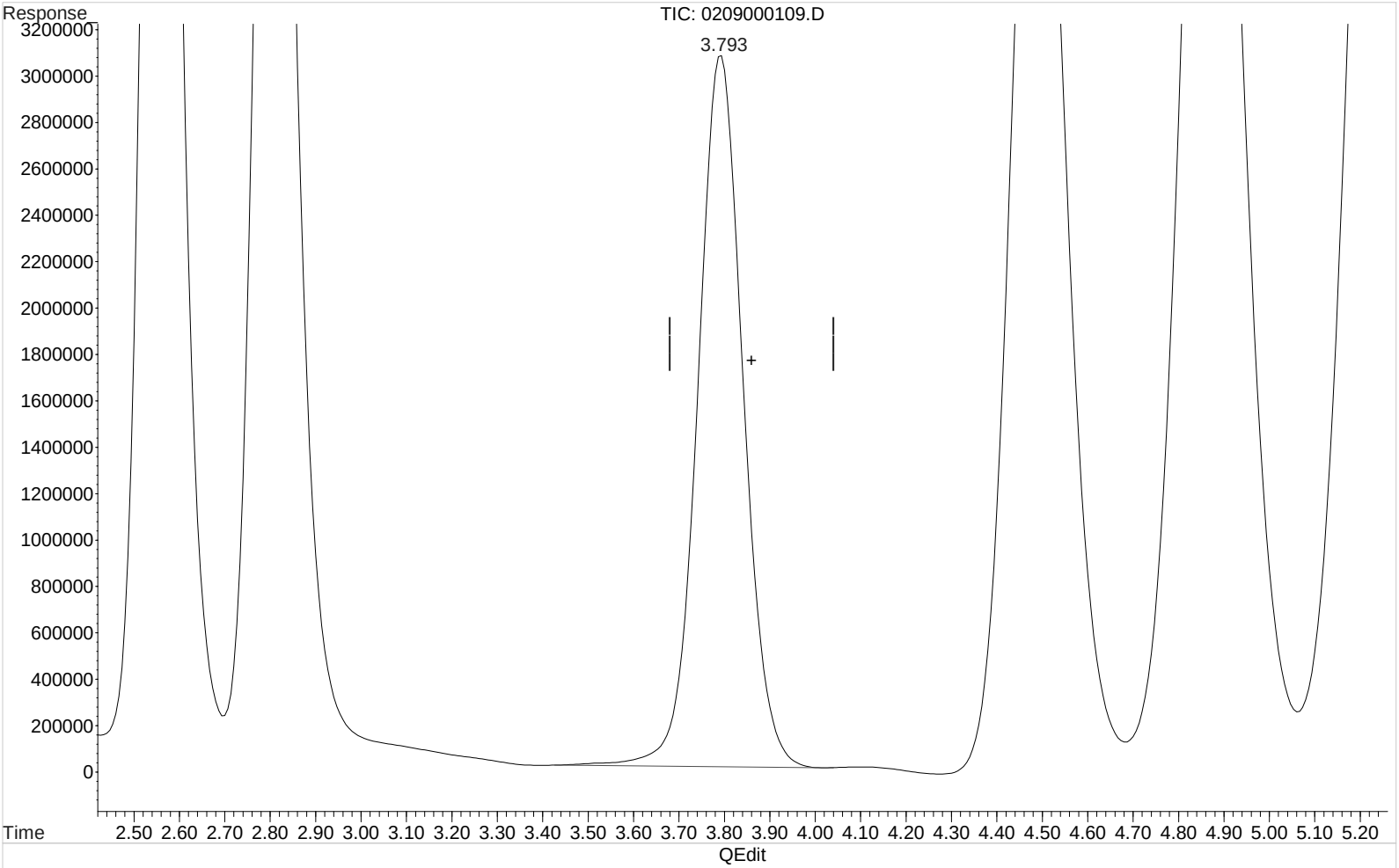
Quantitation Report (Qedit)

(b) (6)
1st 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-210\0209000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:01 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:26:45 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.793min 1016.282 ug/L m

response 21356542

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

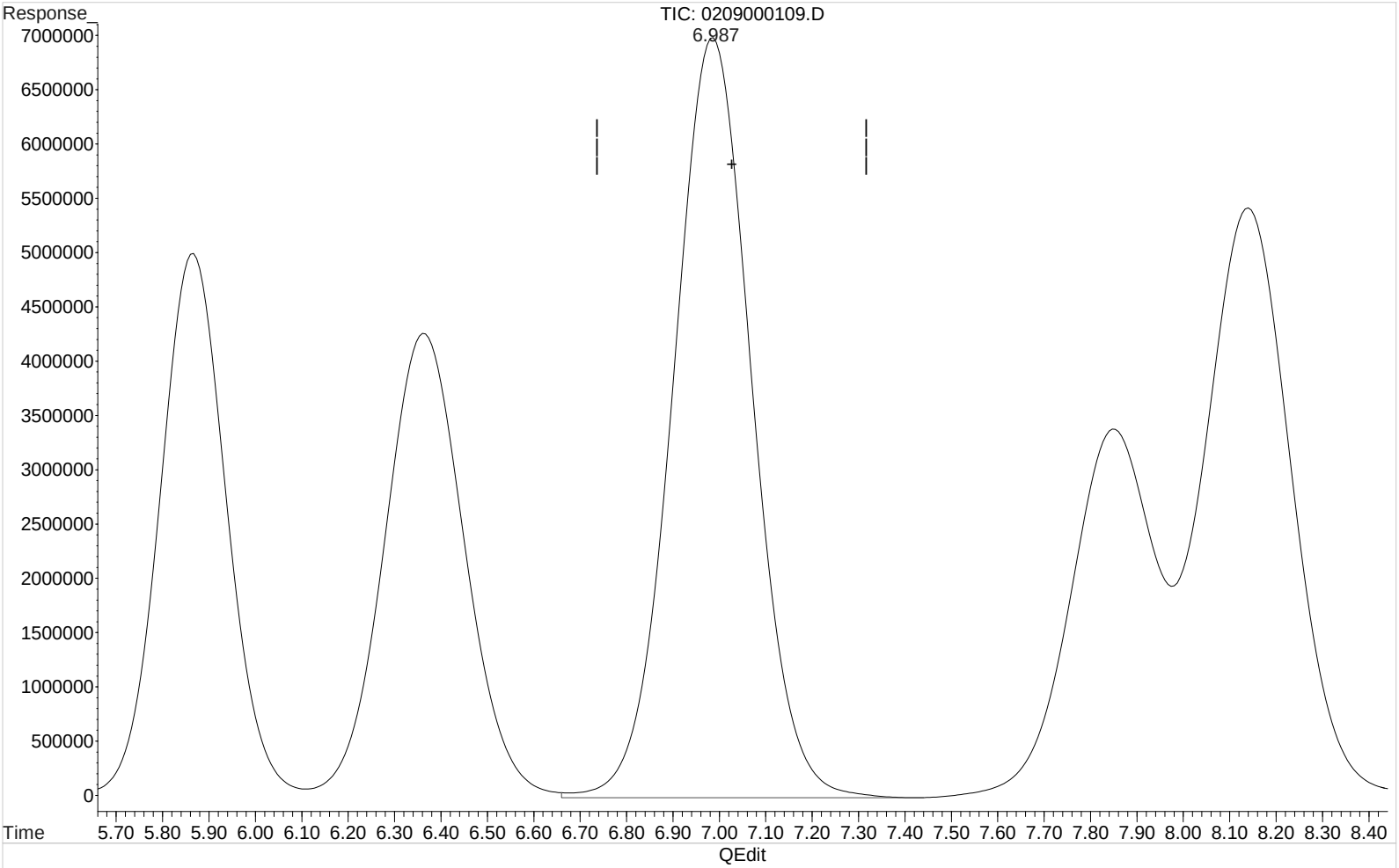
Quantitation Report (Qedit)

(b) (6)
1st 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-210\0209000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:01 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:26:45 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.987min 1031.524 ug/L

response 83009500

Manual Integration:

Before

02/10/17

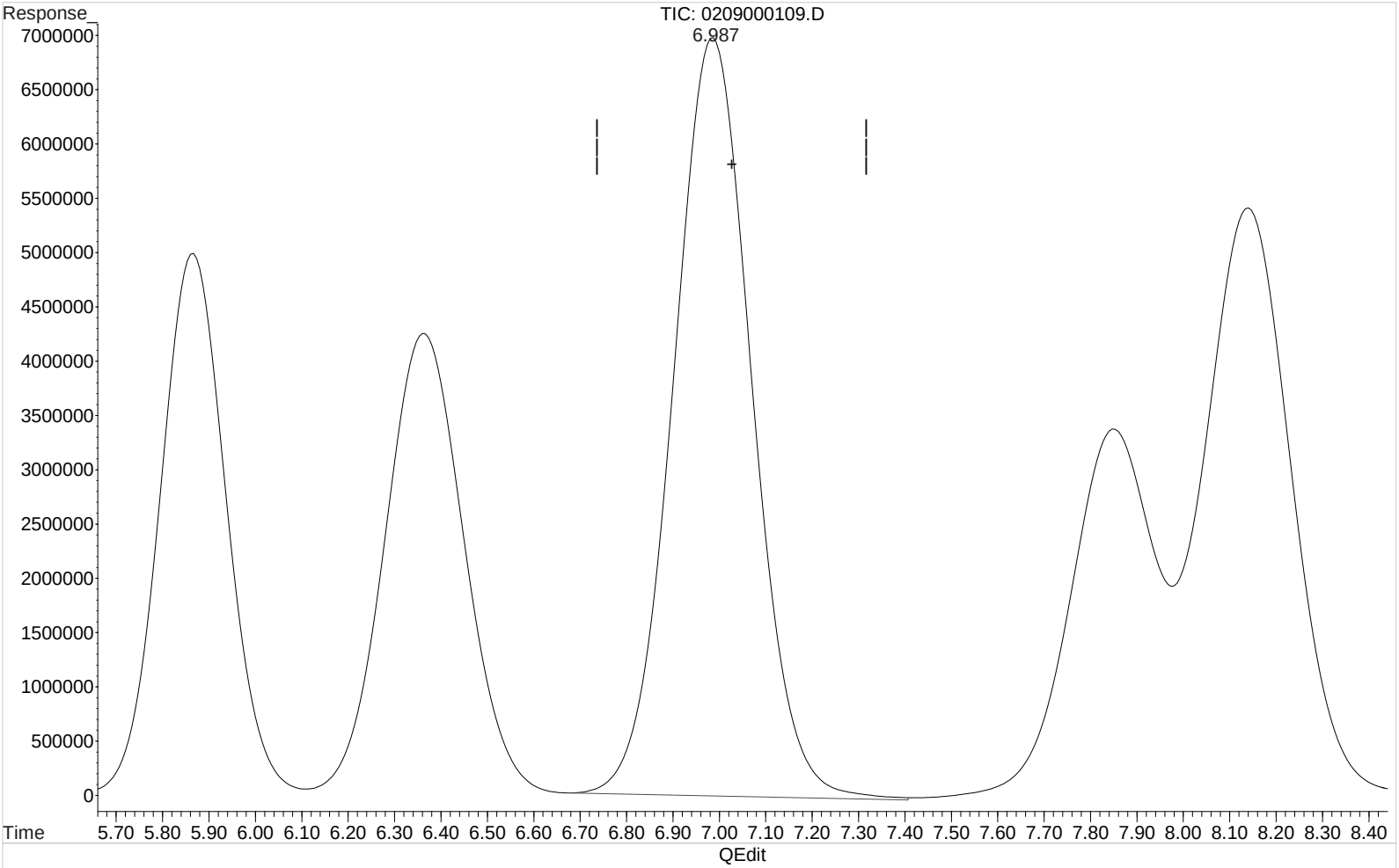
(+) = Expected Retention Time

(b) (6)
1st /13/17
2n /17/17

Data File : J:\LC08\Data\020917XC-210\0209000109.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:27:01 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:26:45 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.987min 1025.070 ug/L m

response 82490148

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

(b) (6)
1st 2/13/17
2nd 2/17/17

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:26:26 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	8.140	139414192	2004.492	ug/L	m
Target Compounds						
1) T	Nitroglycerin	3.793	42551590	2033.310	ug/L	m
2) T	PETN	6.987	162597336	2027.466	ug/L	m

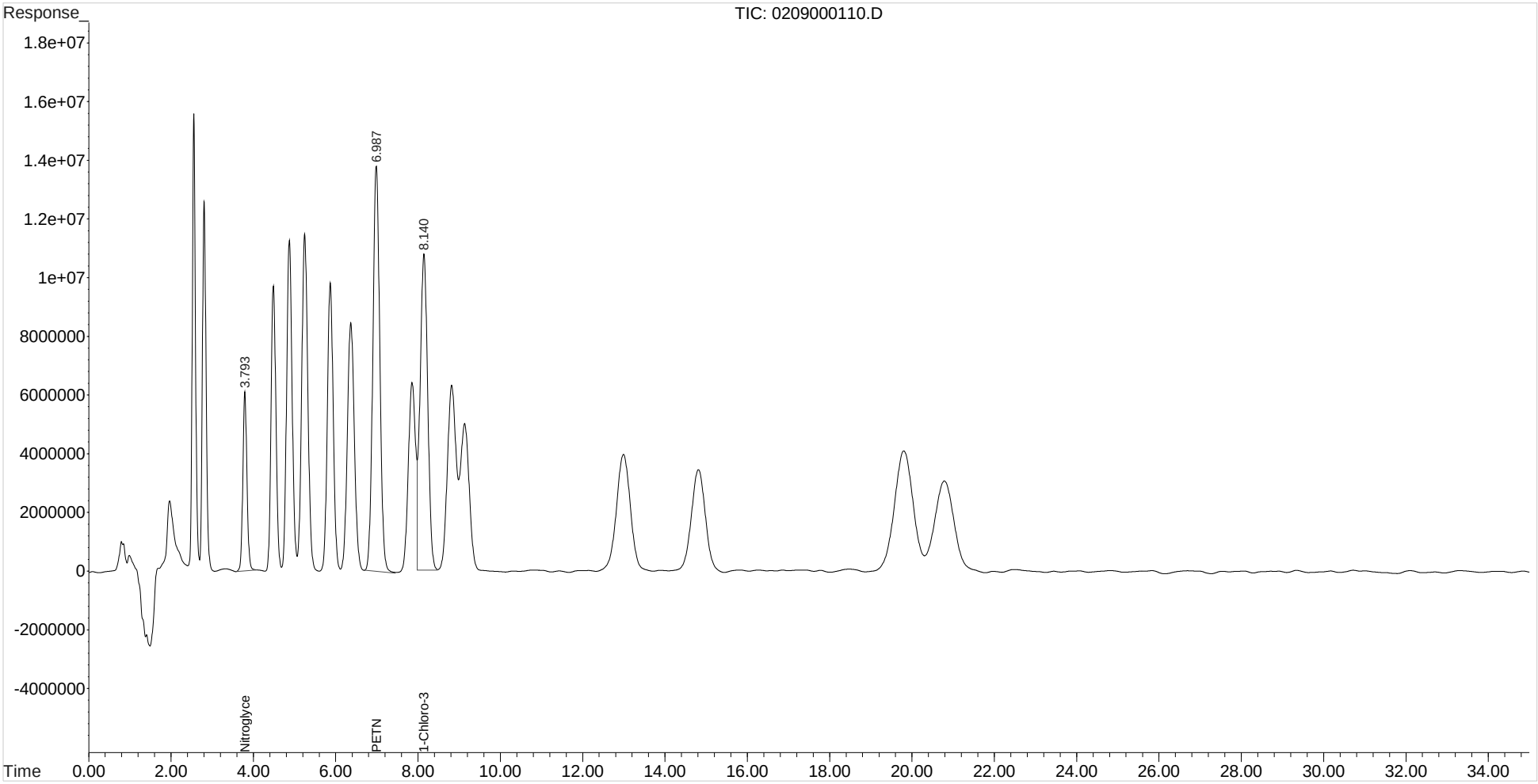
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:26:26 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

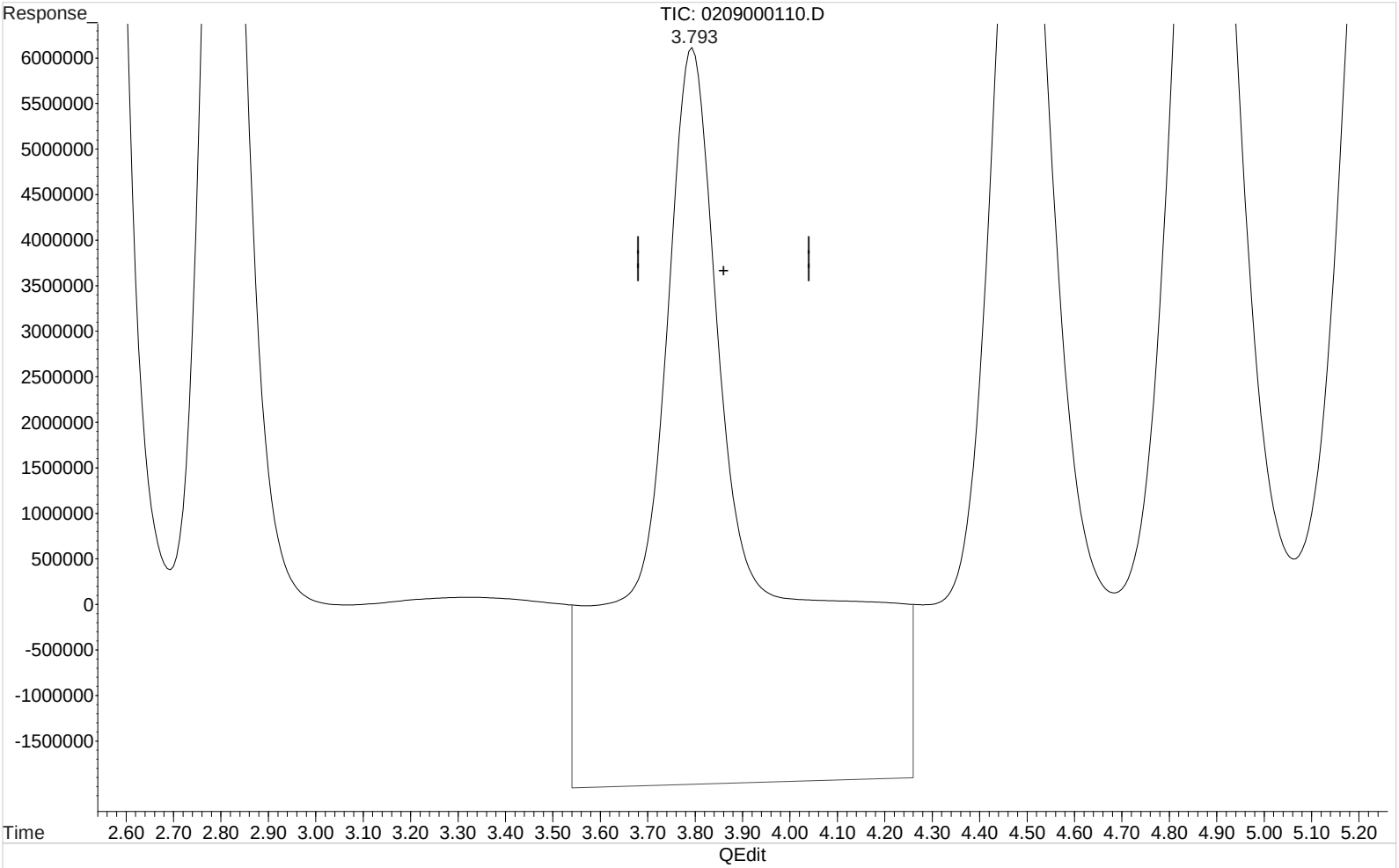


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:58 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.793min 6103.062 ug/L

response 127720293

Manual Integration:

Before

02/10/17

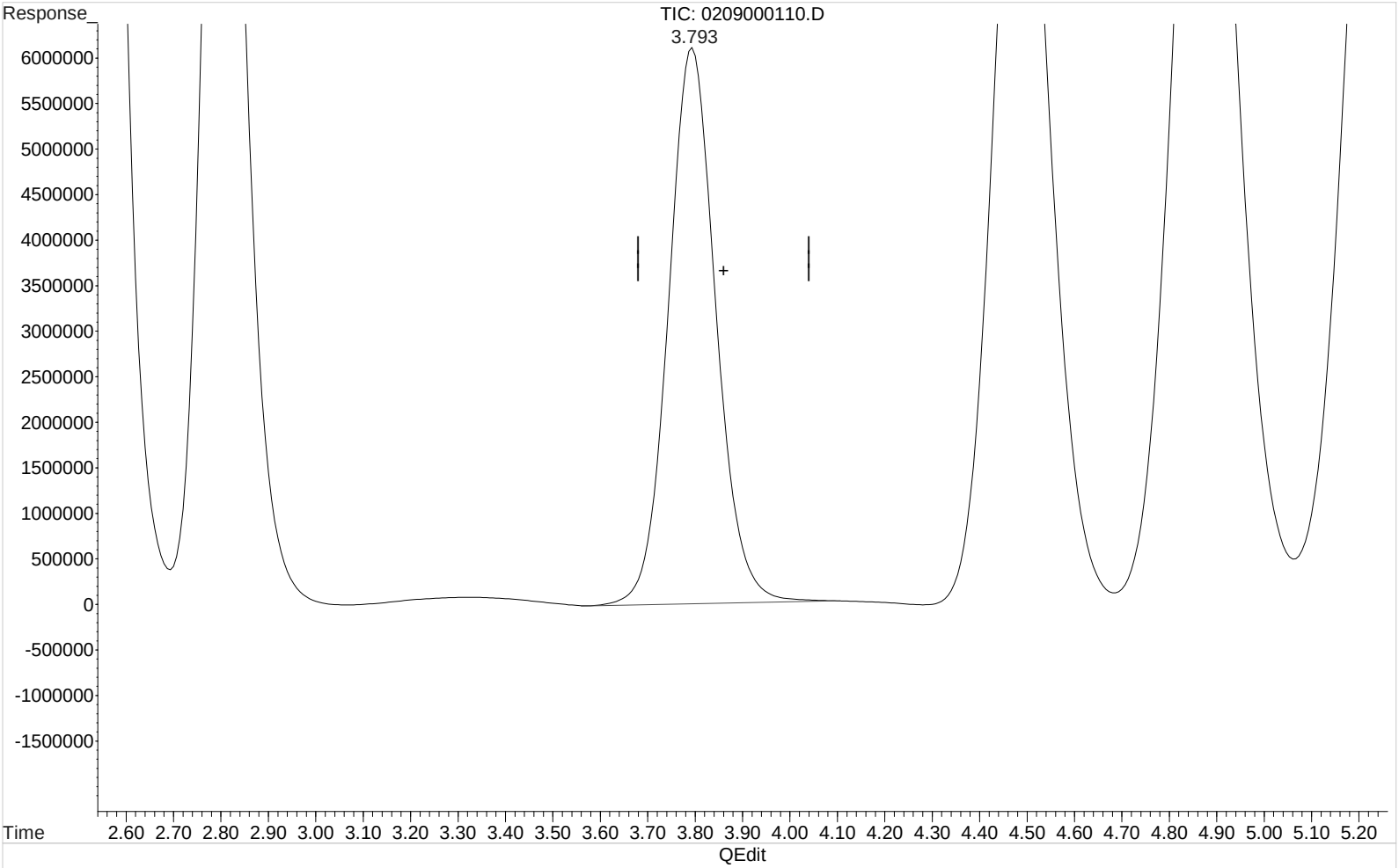
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:58 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.793min 2033.310 ug/L m

response 42551590

Manual Integration:

After

BLC

02/10/17

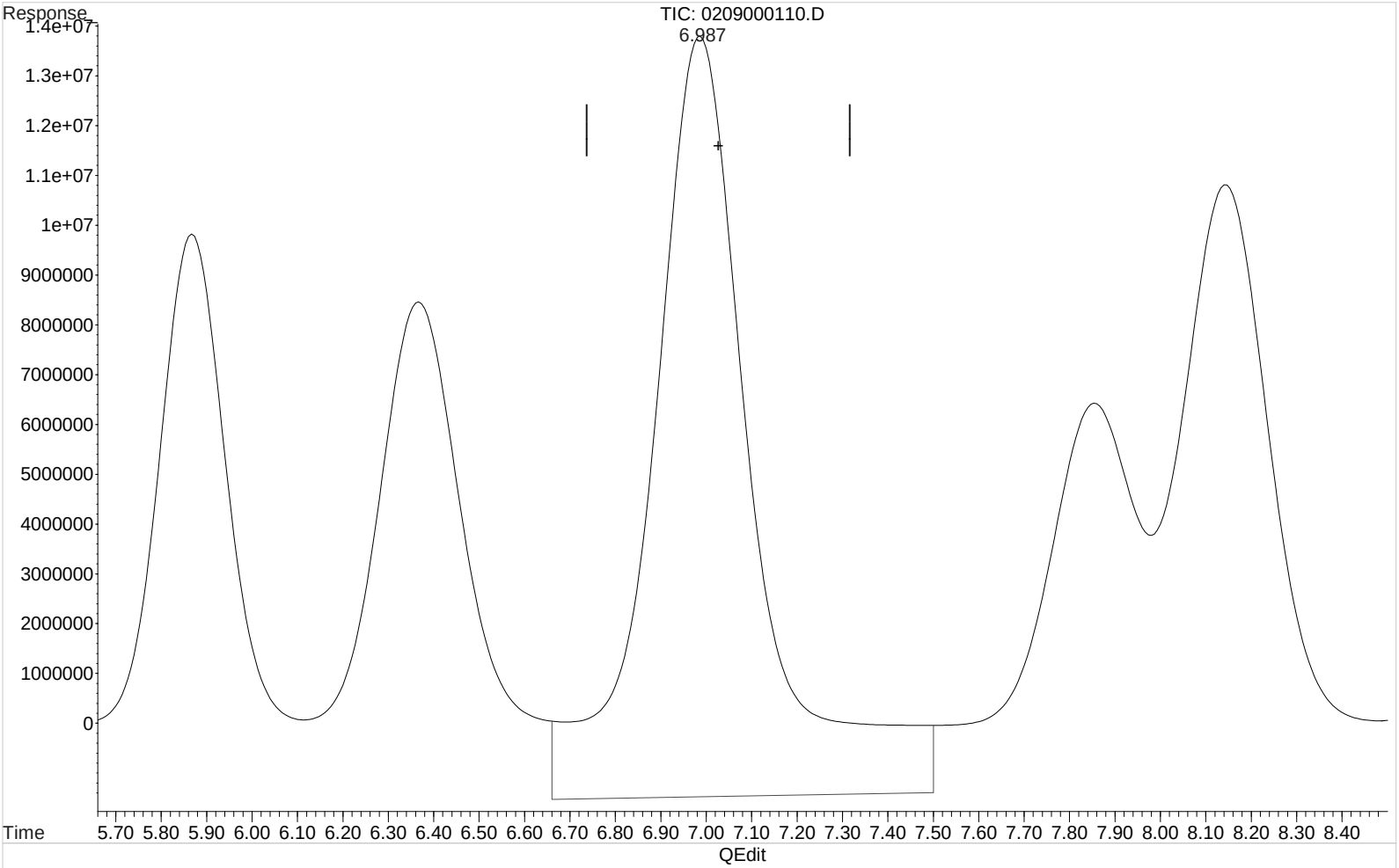
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:58 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.987min 2934.380 ug/L

response 235329399

Manual Integration:

Before

02/10/17

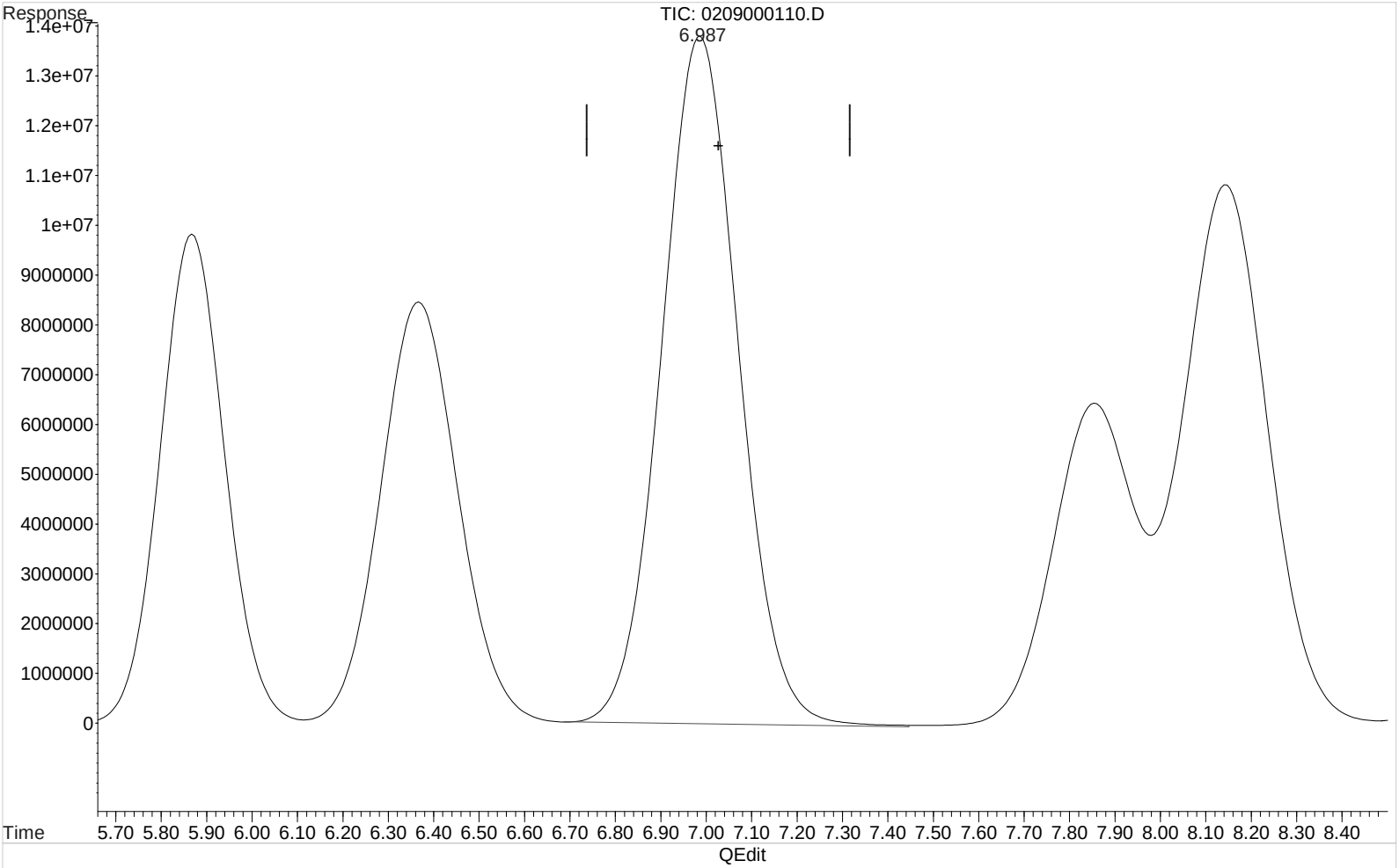
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:58 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.987min 2027.466 ug/L m

response 162597336

Manual Integration:

After

BLC

02/10/17

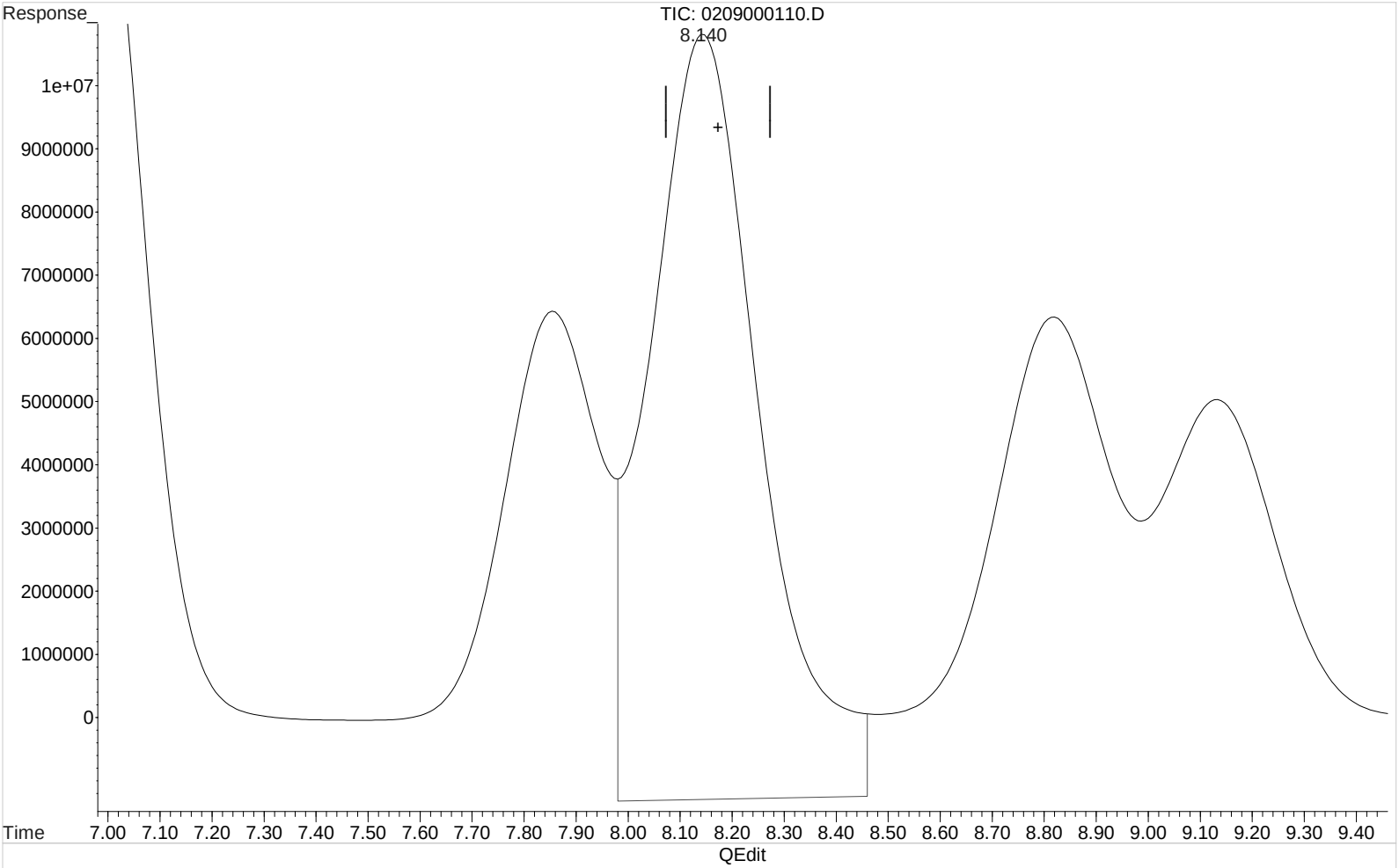
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:58 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.140min 2549.905 ug/L

response 177348124

Manual Integration:

Before

02/10/17

(+) = Expected Retention Time

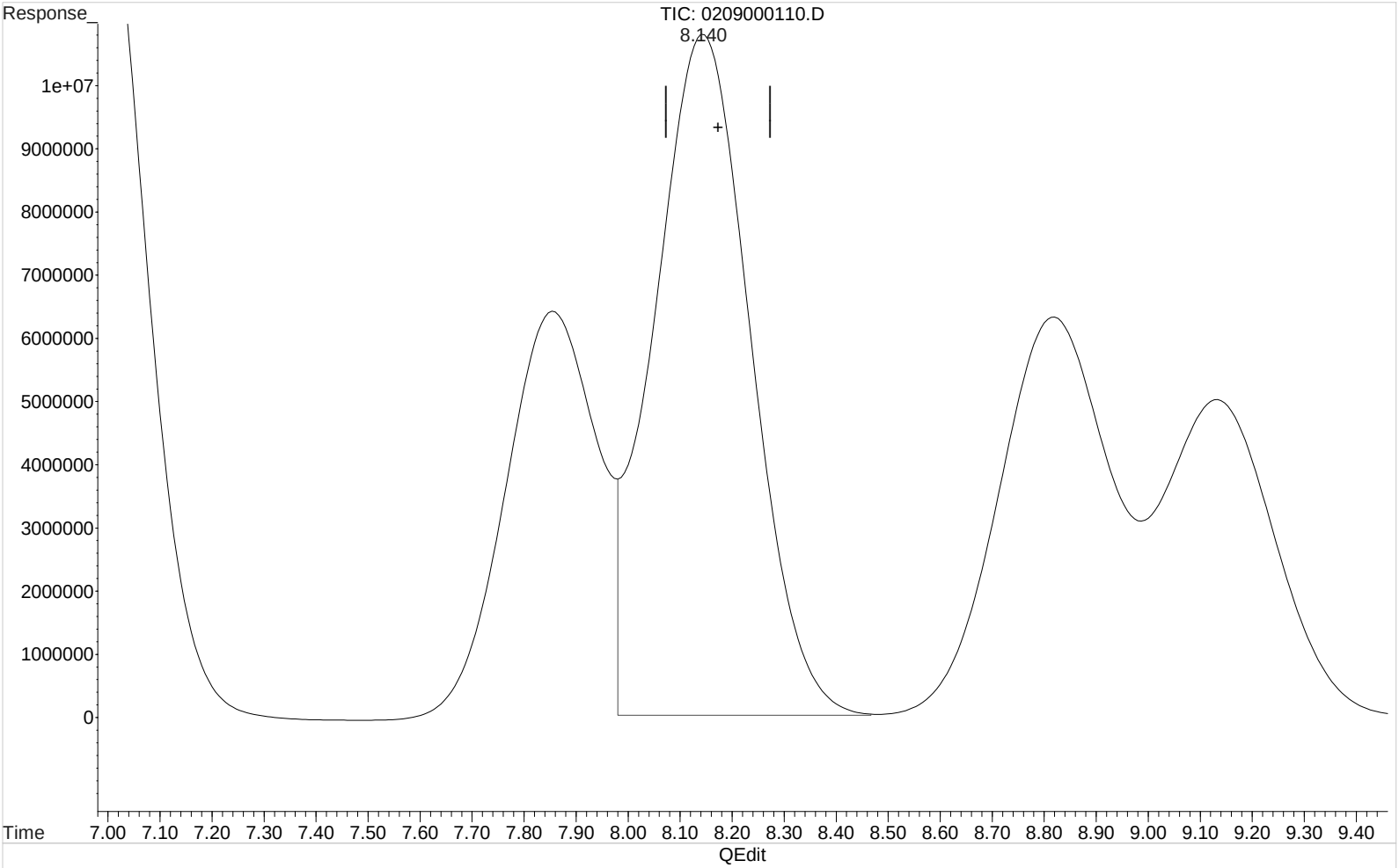
020917_Short_8330B@210.M Fri Feb 10 10:26:22 2017 Page: 1

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000110.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:58 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:48 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.140min 2004.492 ug/L m

response 139414192

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000111.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:40 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:08 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	8.147	351298284	5076.822	ug/L	
Target Compounds						
1) T	Nitroglycerin	3.787	104644653	5000.603	ug/L	m
2) T	PETN	6.987	405313182	5081.362	ug/L	m

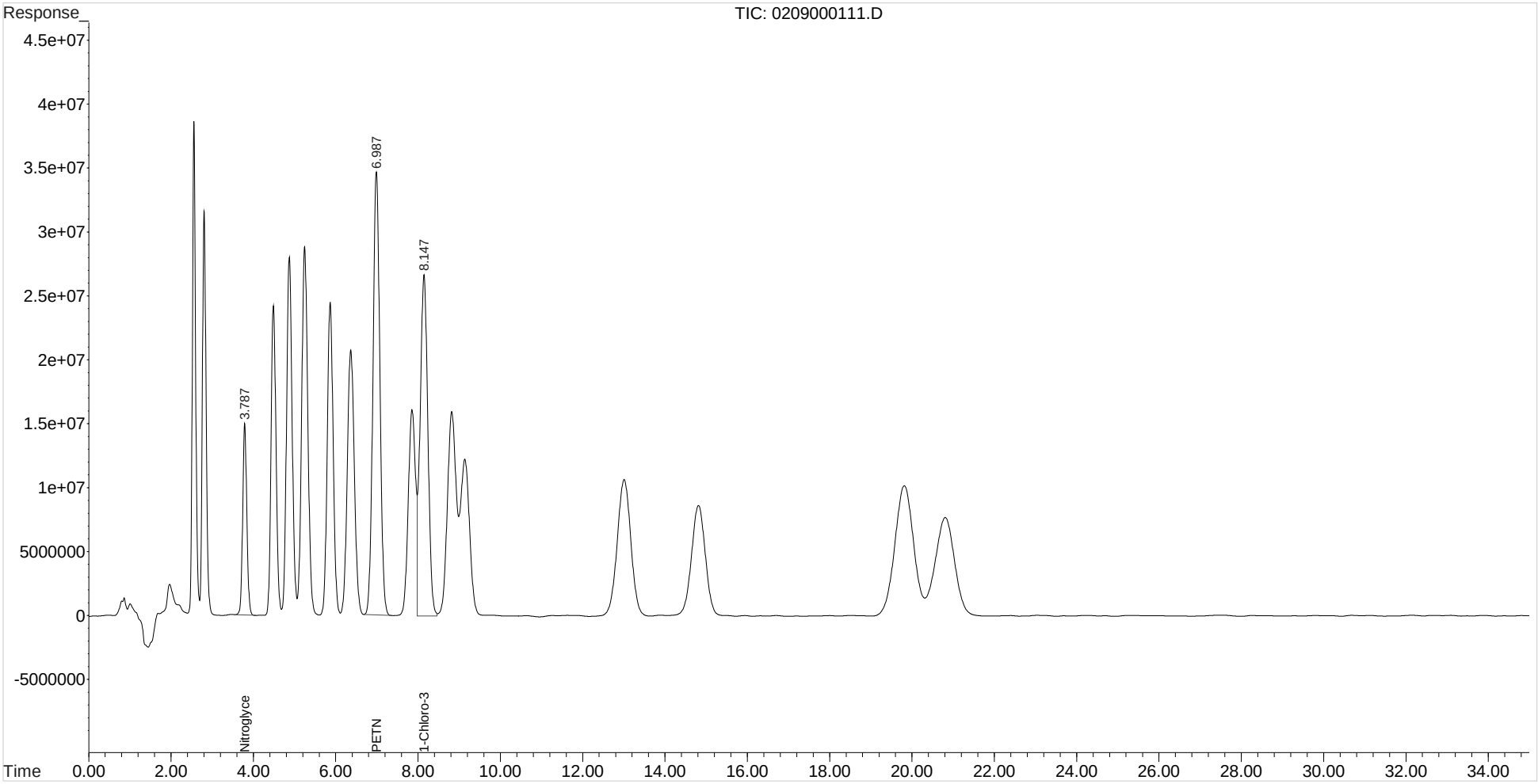
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000111.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:40 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:08 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(b) (6)

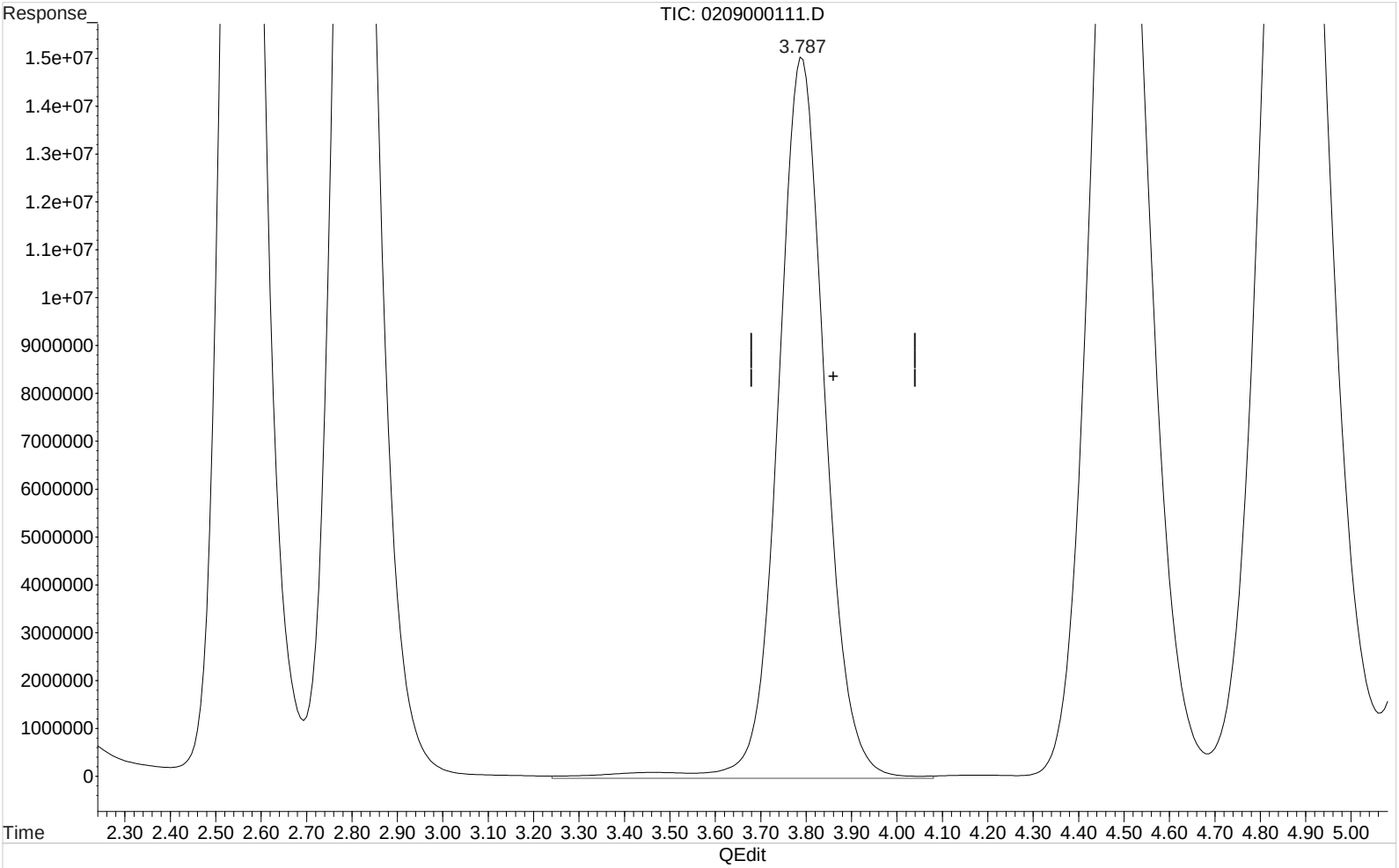
2/13/17

2/17/17

Data File : J:\LC08\Data\020917XC-210\0209000111.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:08 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.787min 5213.557 ug/L

response 109101011

Manual Integration:

Before

02/10/17

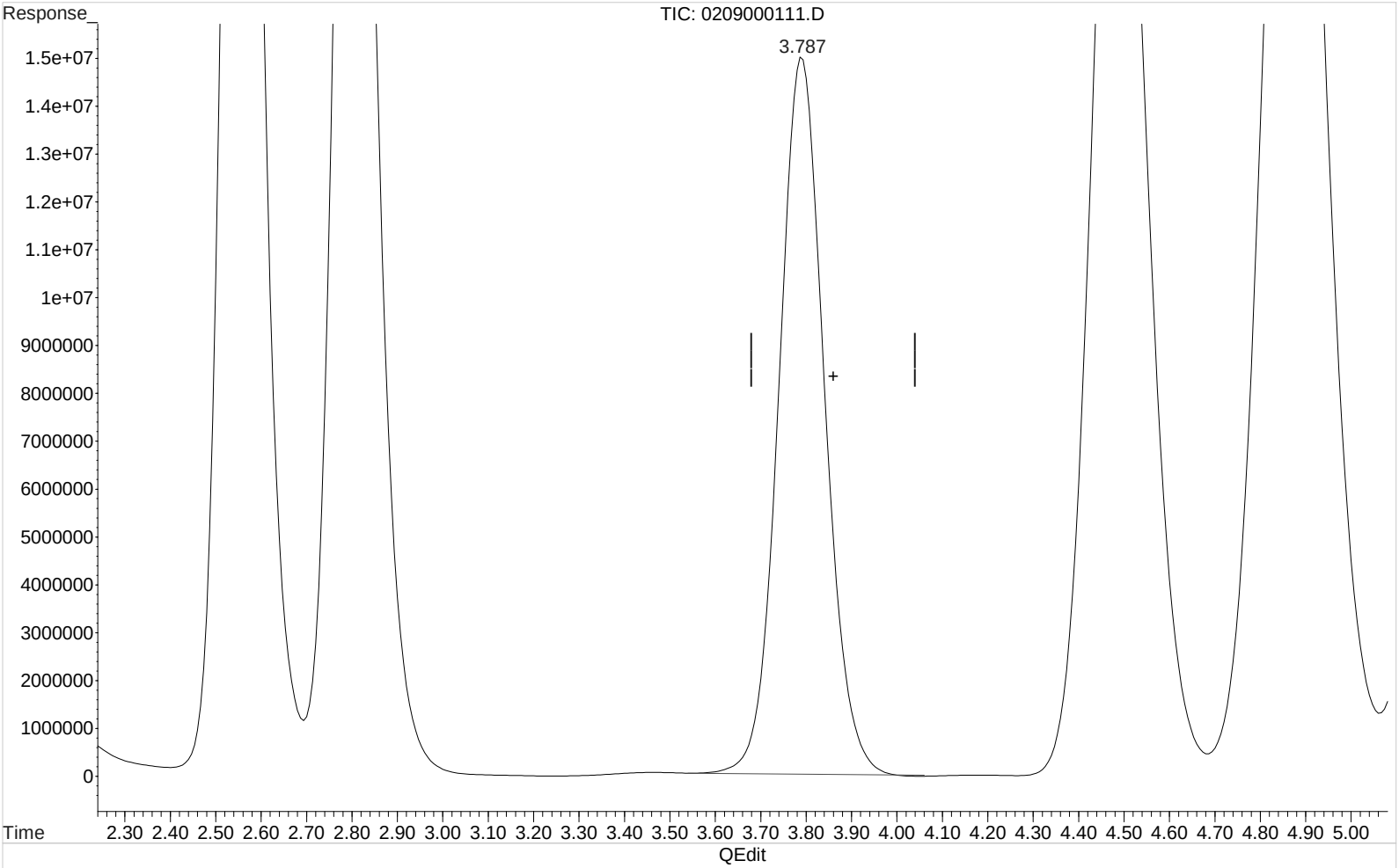
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000111.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:08 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.787min 5000.603 ug/L m

response 104644653

Manual Integration:

After

BLC

02/10/17

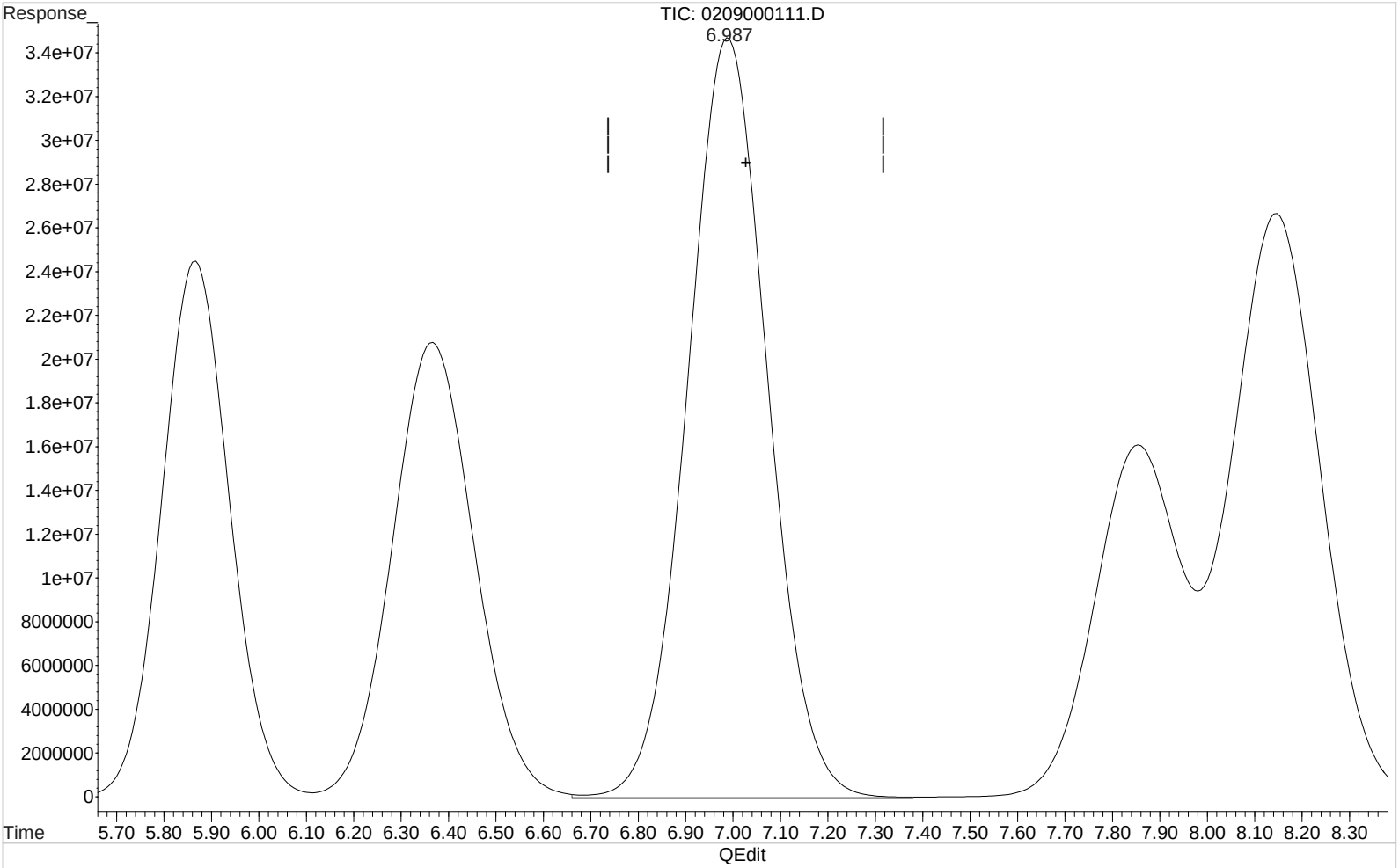
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000111.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:08 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(2) PETN (T)

6.987min 5129.172 ug/L

response 409126699

Manual Integration:

Before

02/10/17

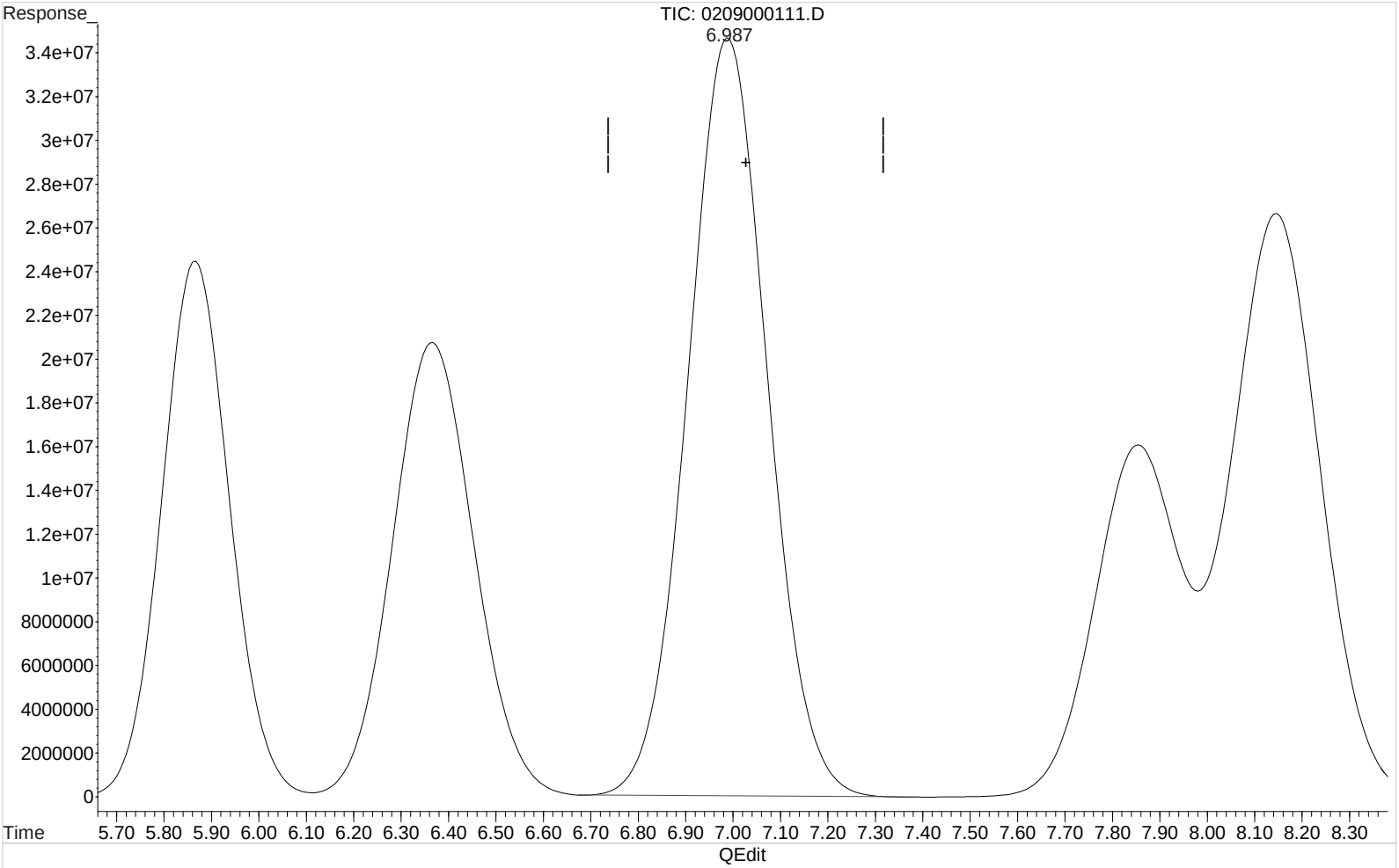
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000111.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:25:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:25:08 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.987min 5081.362 ug/L m

response 405313182

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000112.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:24:52 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:24:06 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	8.147	689768693	9936.722	ug/L	
Target Compounds						
1) T	Nitroglycerin	3.793	210346801	10104.020	ug/L	m
2) T	PETN	6.987	805997758	10211.609	ug/L	m

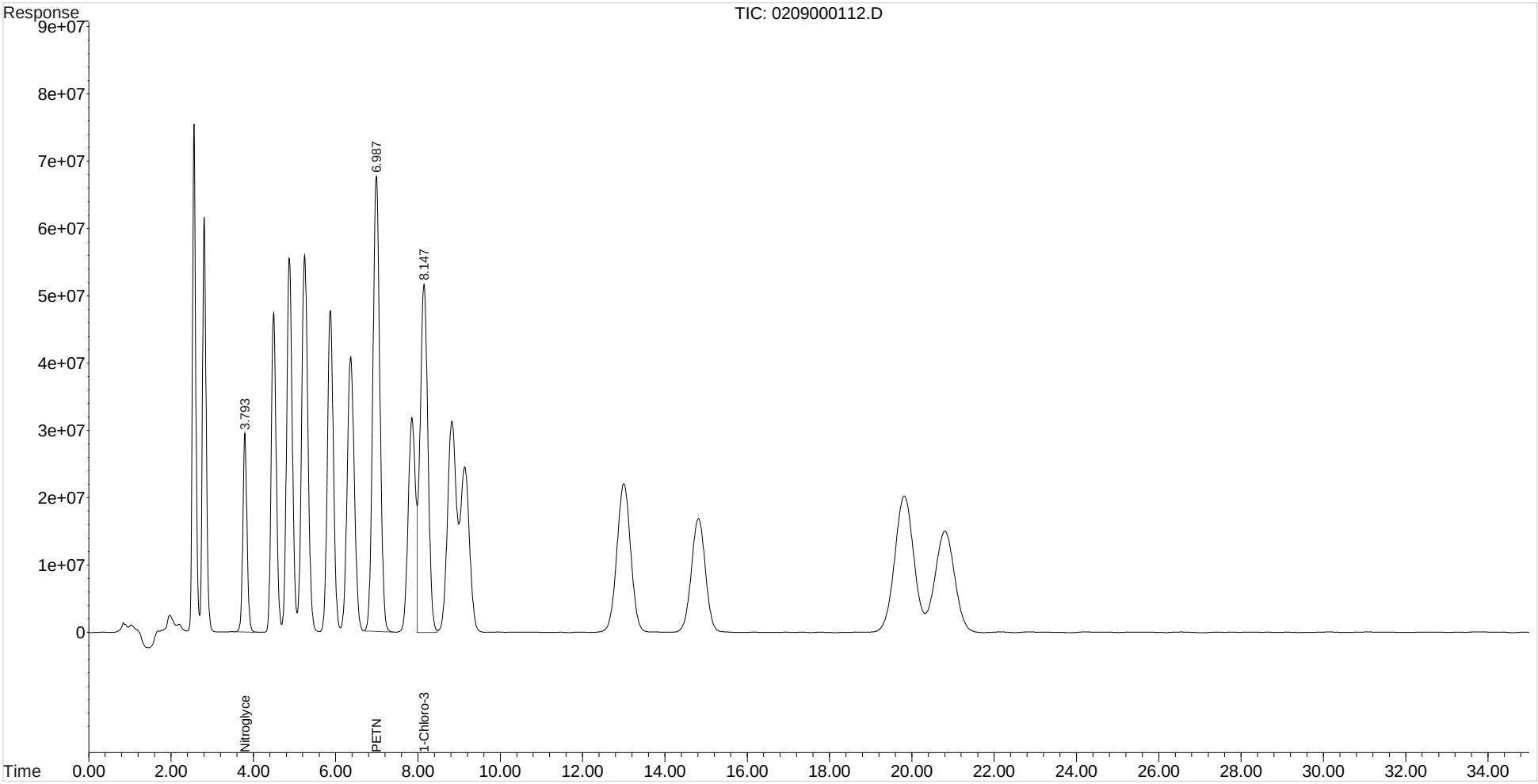
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000112.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:24:52 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:24:06 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

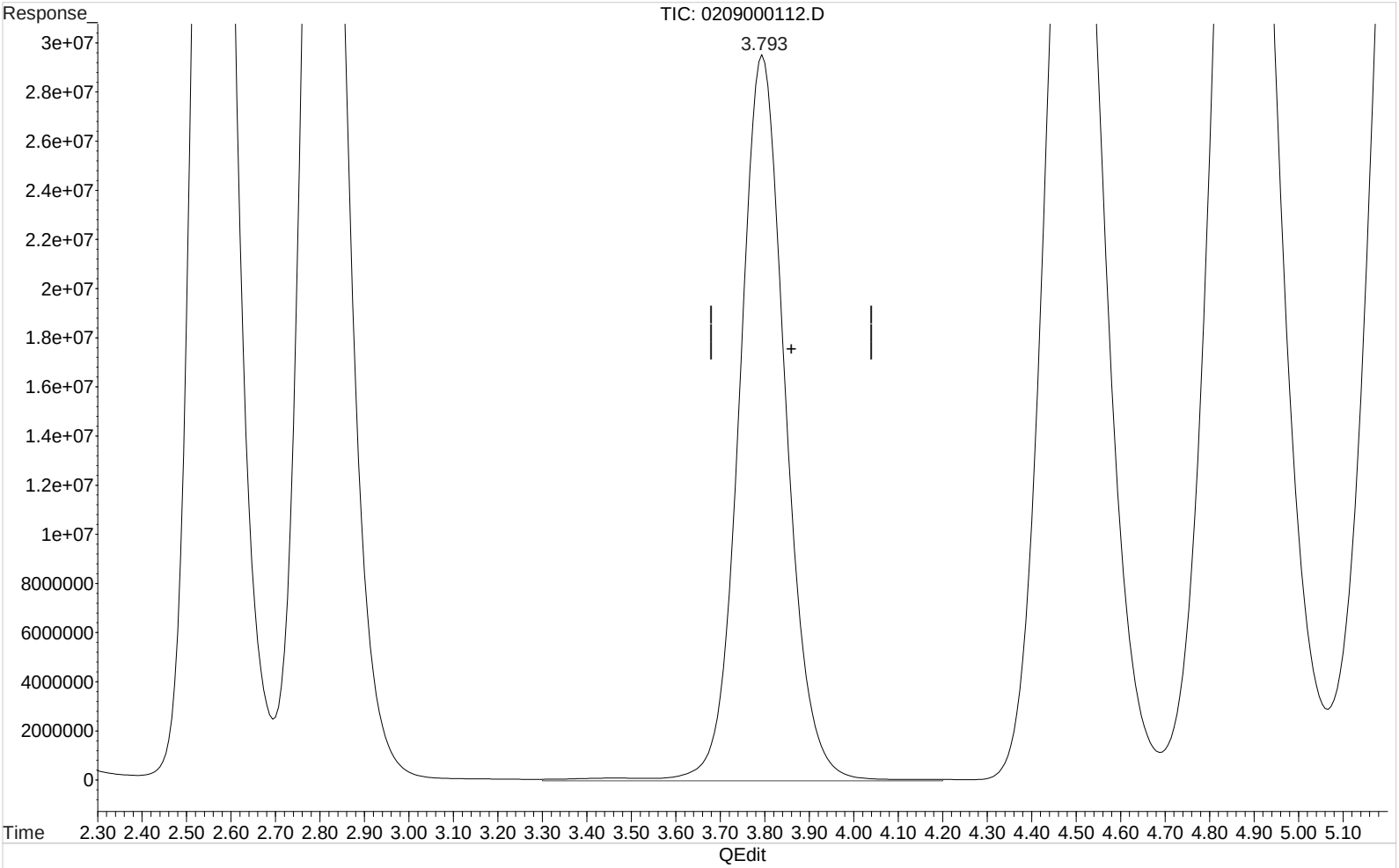


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000112.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:24:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:24:06 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.793min 10277.587 ug/L

response 213960148

Manual Integration:

Before

02/10/17

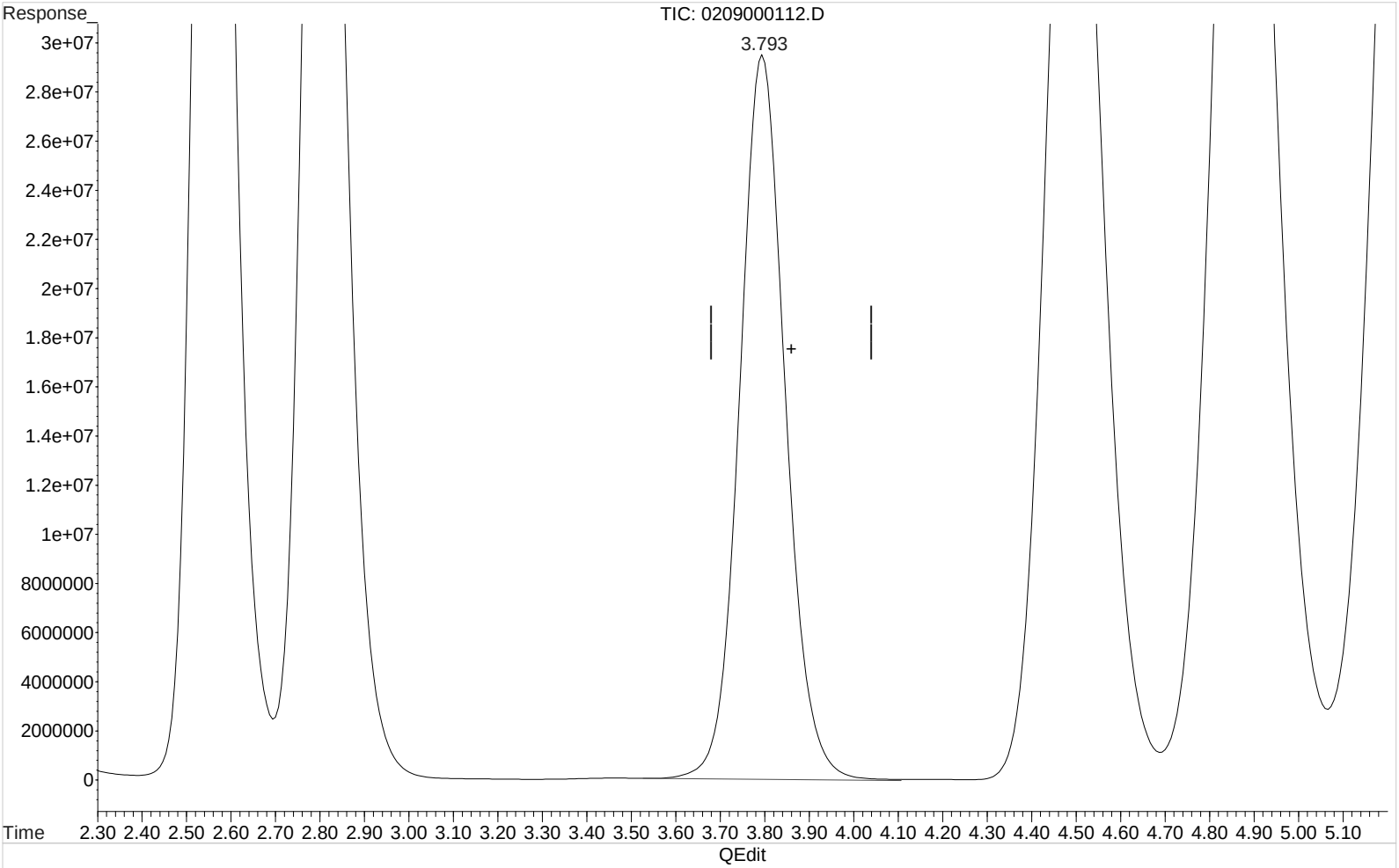
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000112.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:24:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:24:06 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

3.793min 10104.020 ug/L m

response 210346801

Manual Integration:

After

BLC

02/10/17

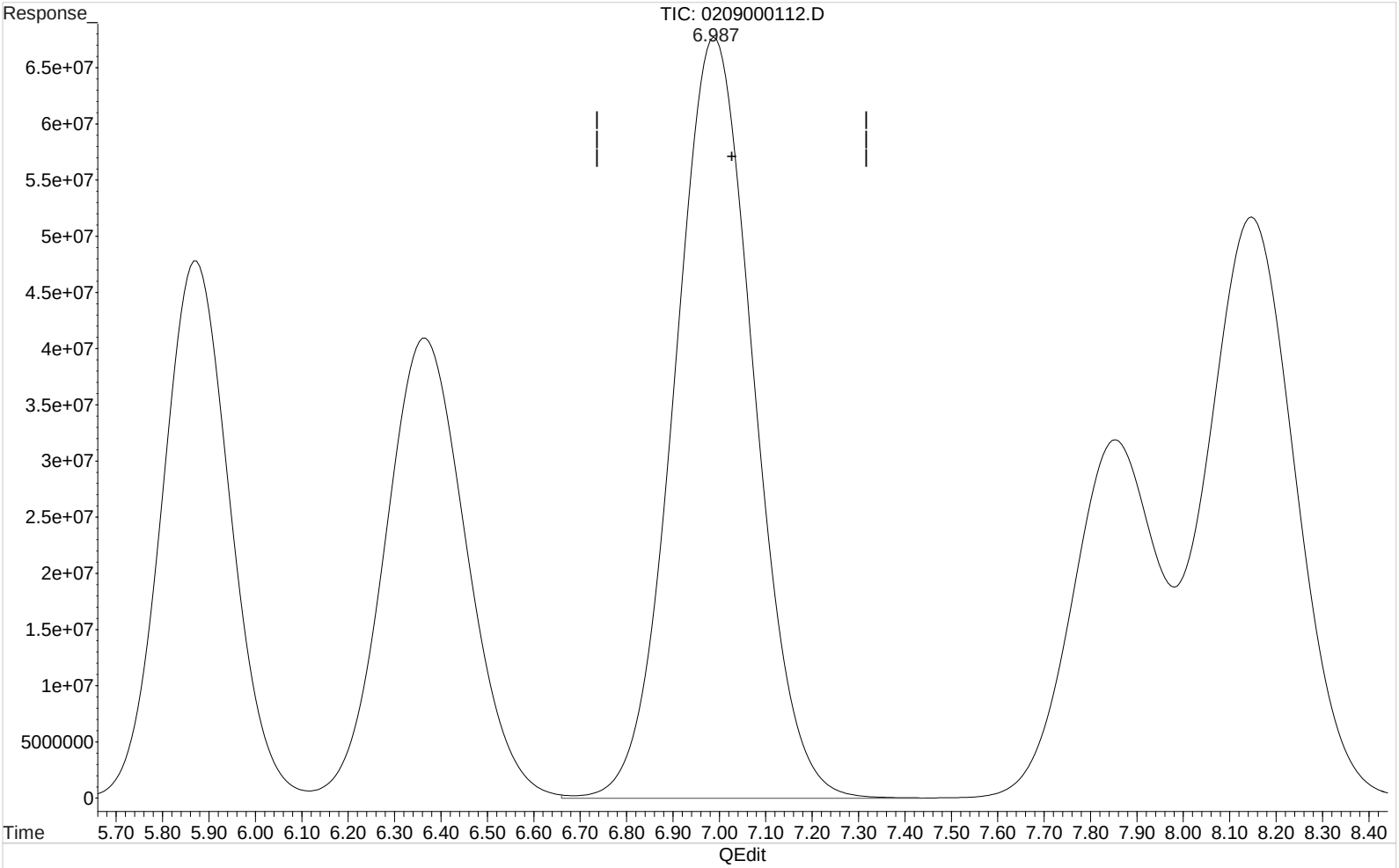
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000112.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:24:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:24:06 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.987min 10290.163 ug/L

response 812198027

Manual Integration:

Before

02/10/17

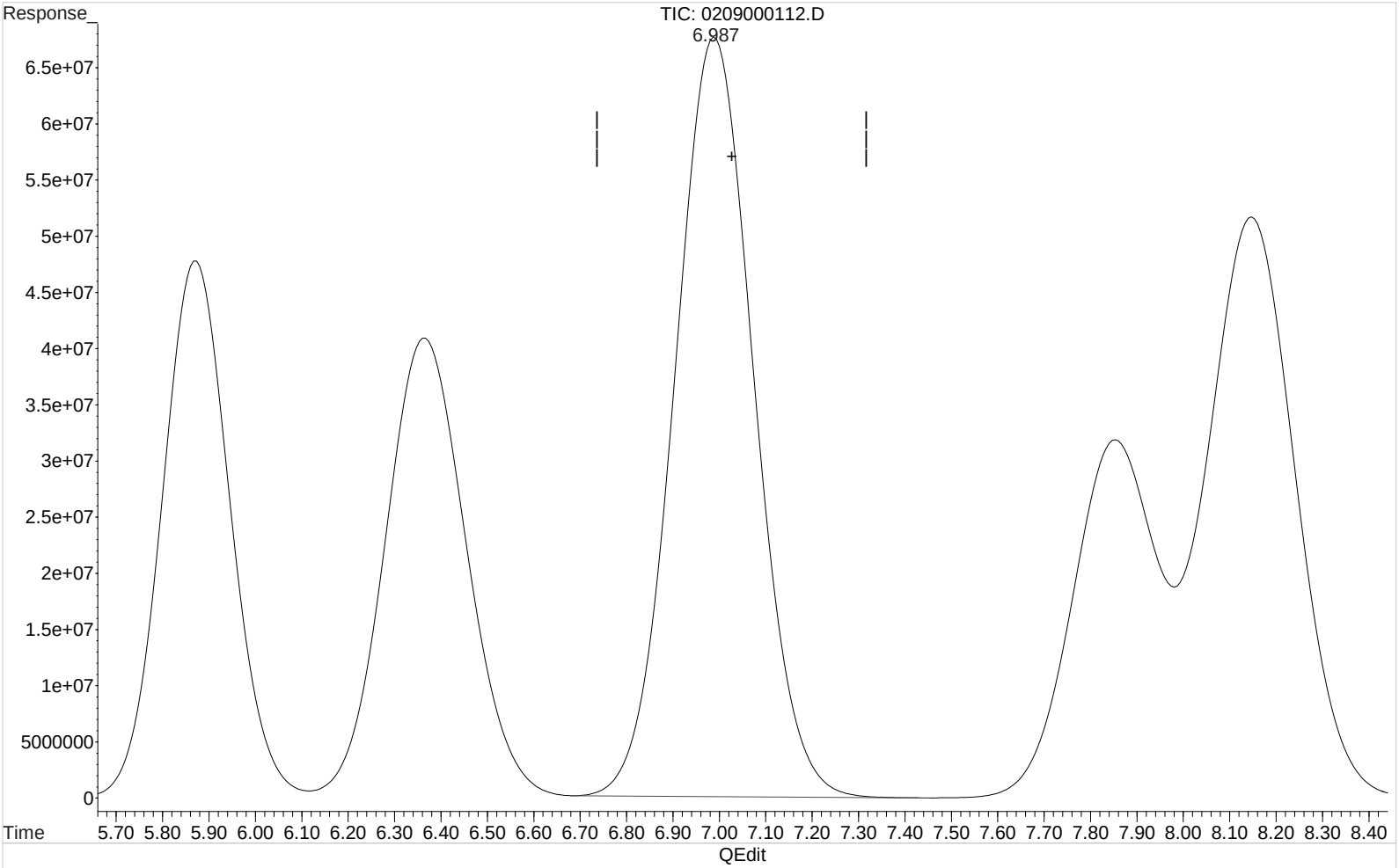
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000112.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:24:19 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:24:06 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(2) PETN (T)

6.987min 10211.609 ug/L m

response 805997758

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000113.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:23:51 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:23:31 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	8.127	1388322466	NoCal	ug/L	m
Target Compounds						
1) T	Nitroglycerin	3.780	416362602	NoCal	ug/L	
2) T	PETN	6.973	1578591137	NoCal	ug/L	

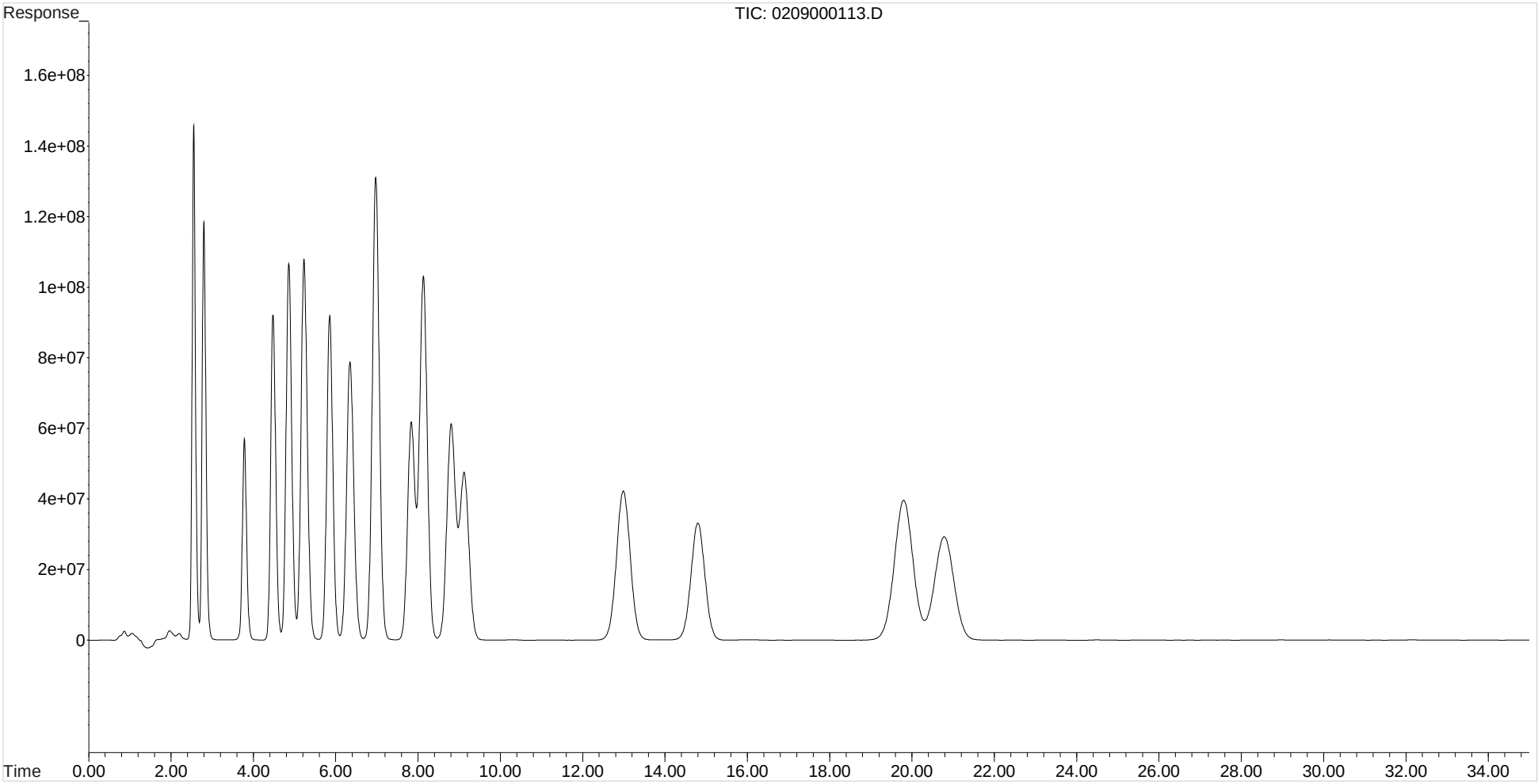
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000113.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:23:51 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:23:31 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

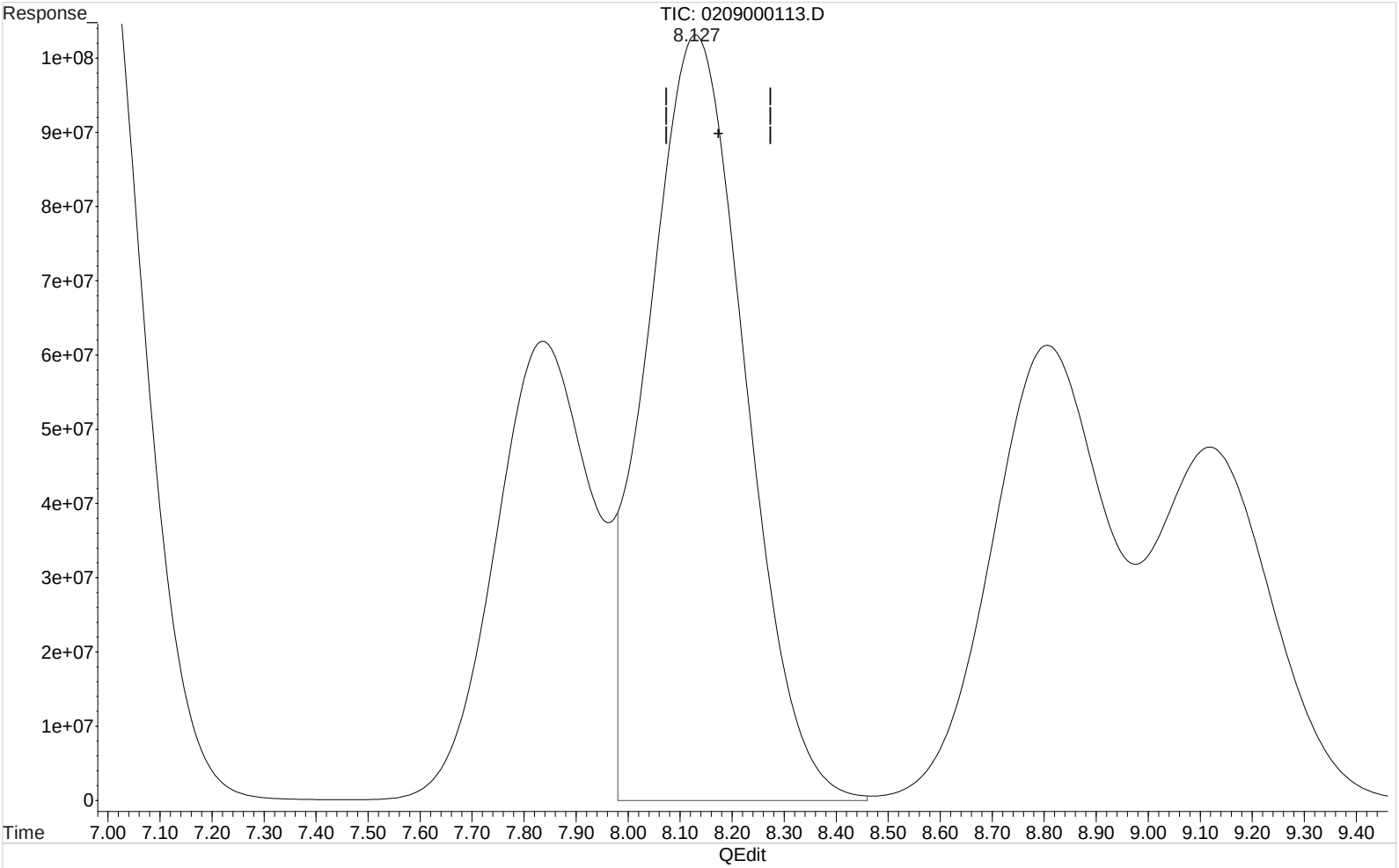


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000113.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:23:39 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:23:31 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

8.127min 0.000 ug/L

response 1344410632

Manual Integration:

Before

02/10/17

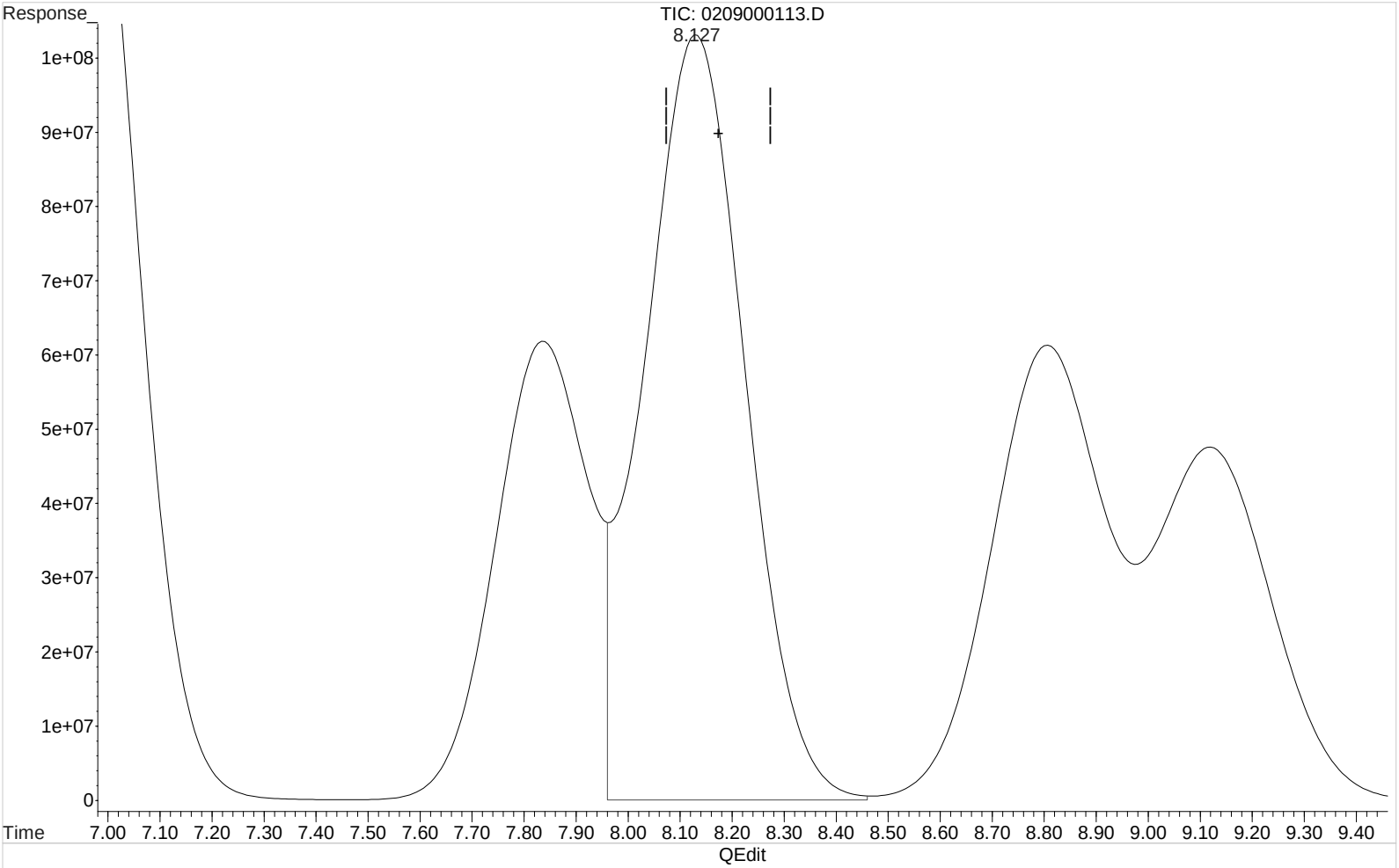
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000113.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:23:39 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:23:31 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

8.127min 0.000 ug/L m

response 1388322466

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000114.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 22:09:06 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:37:33 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
Target Compounds						
1) T	Nitroglycerin	0.000	0	N.D.	ug/L	
2) T	PETN	0.000	0	N.D.	ug/L	d

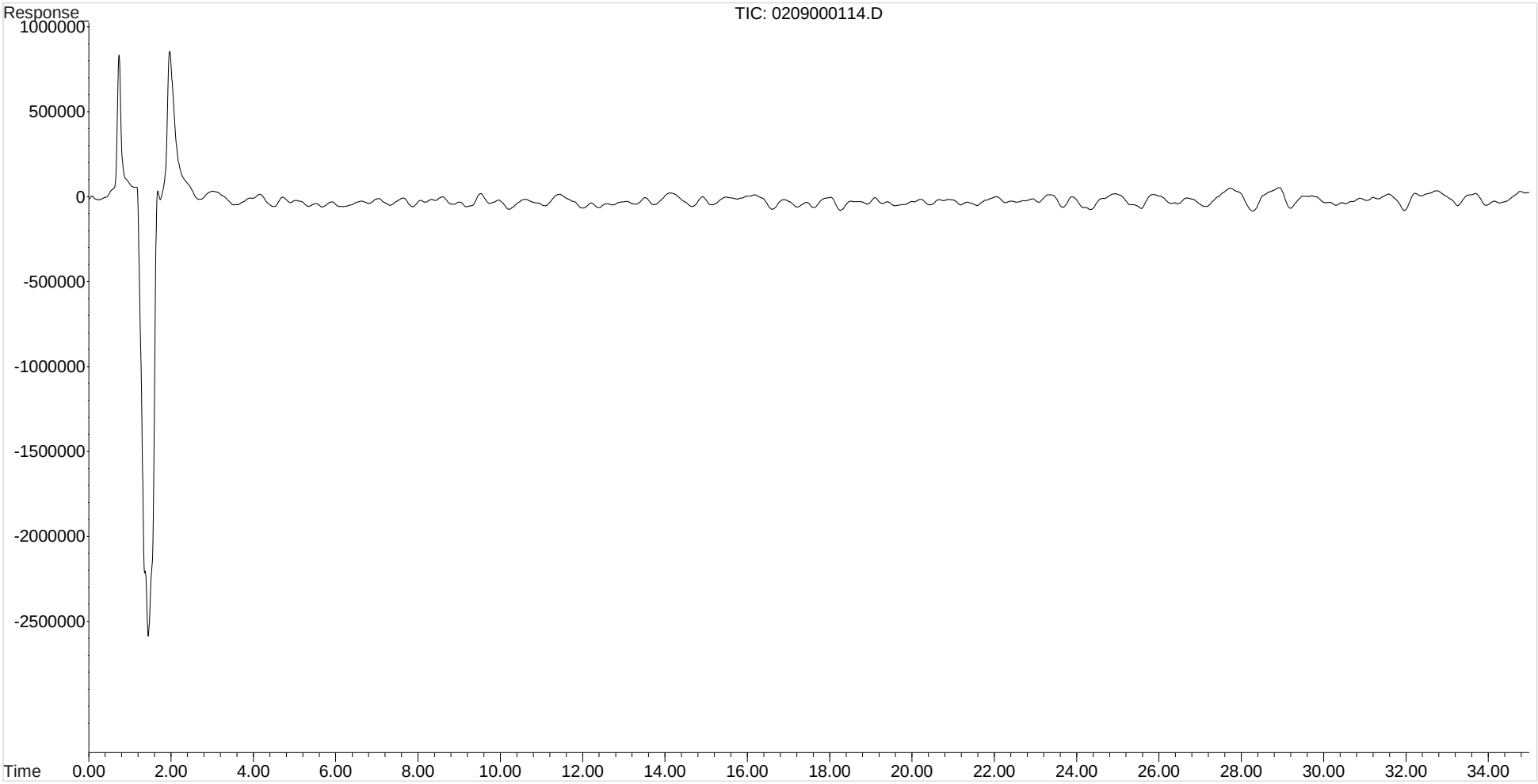
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000114.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 22:09:06 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:37:33 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000115.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:38:11 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	8.127	67923552	976.427 ug/L
Target Compounds				
1) T	Nitroglycerin	3.787	20764472	993.525 ug/L m
2) T	PETN	6.973	77460880	945.239 ug/L

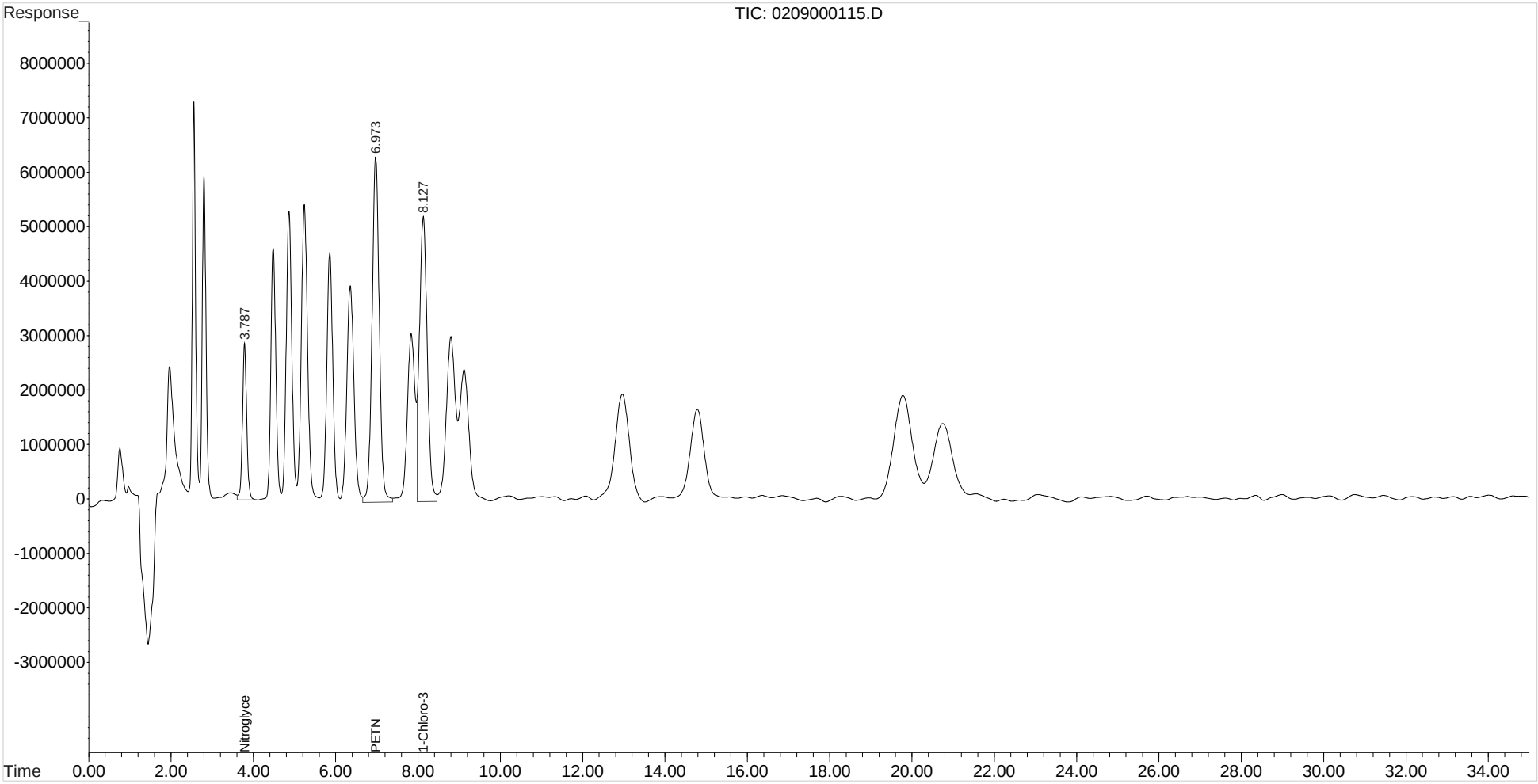
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-210\0209000115.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:38:11 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm

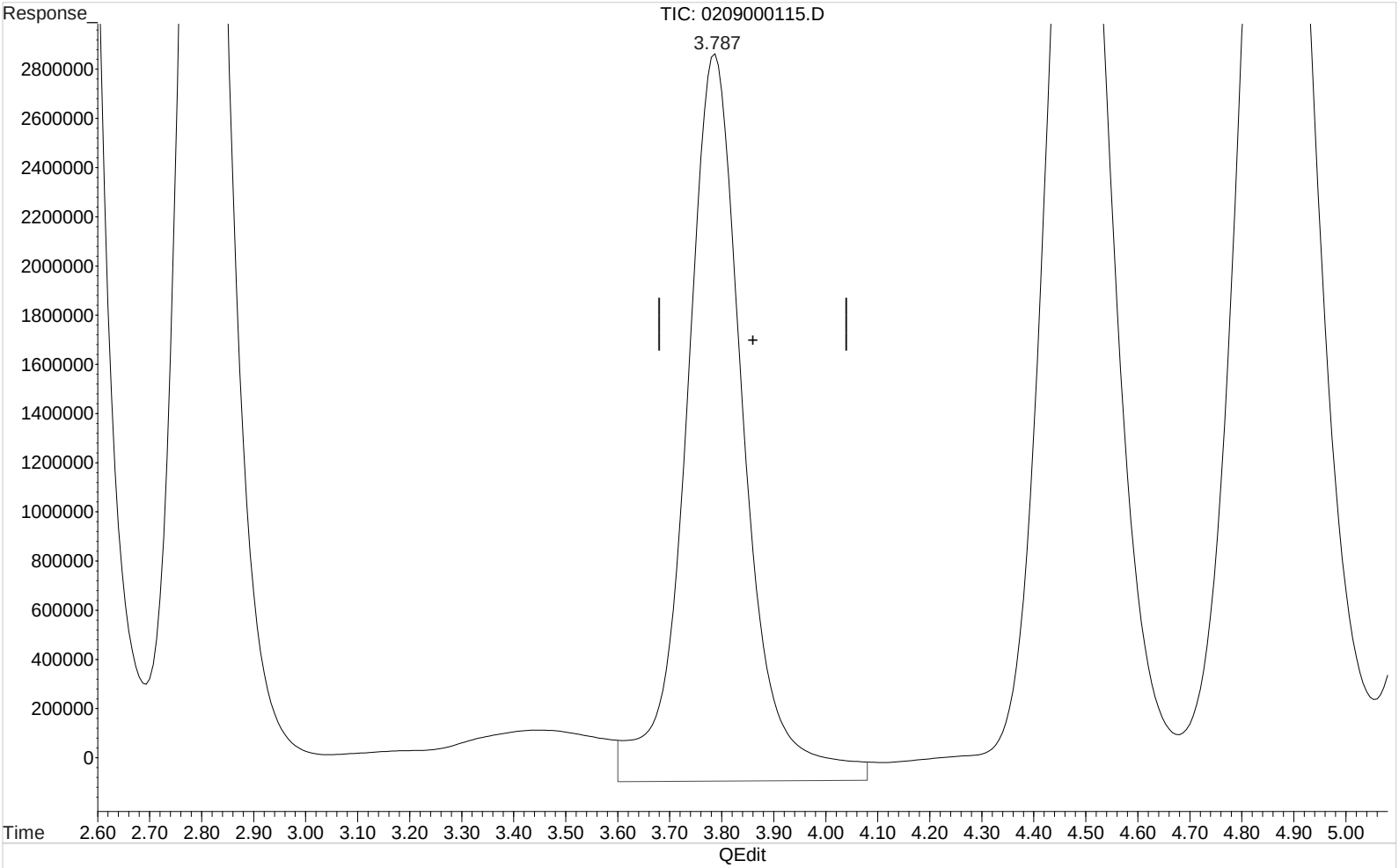


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000115.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:37:47 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.787min 1099.844 ug/L

response 22986522

Manual Integration:

Before

02/10/17

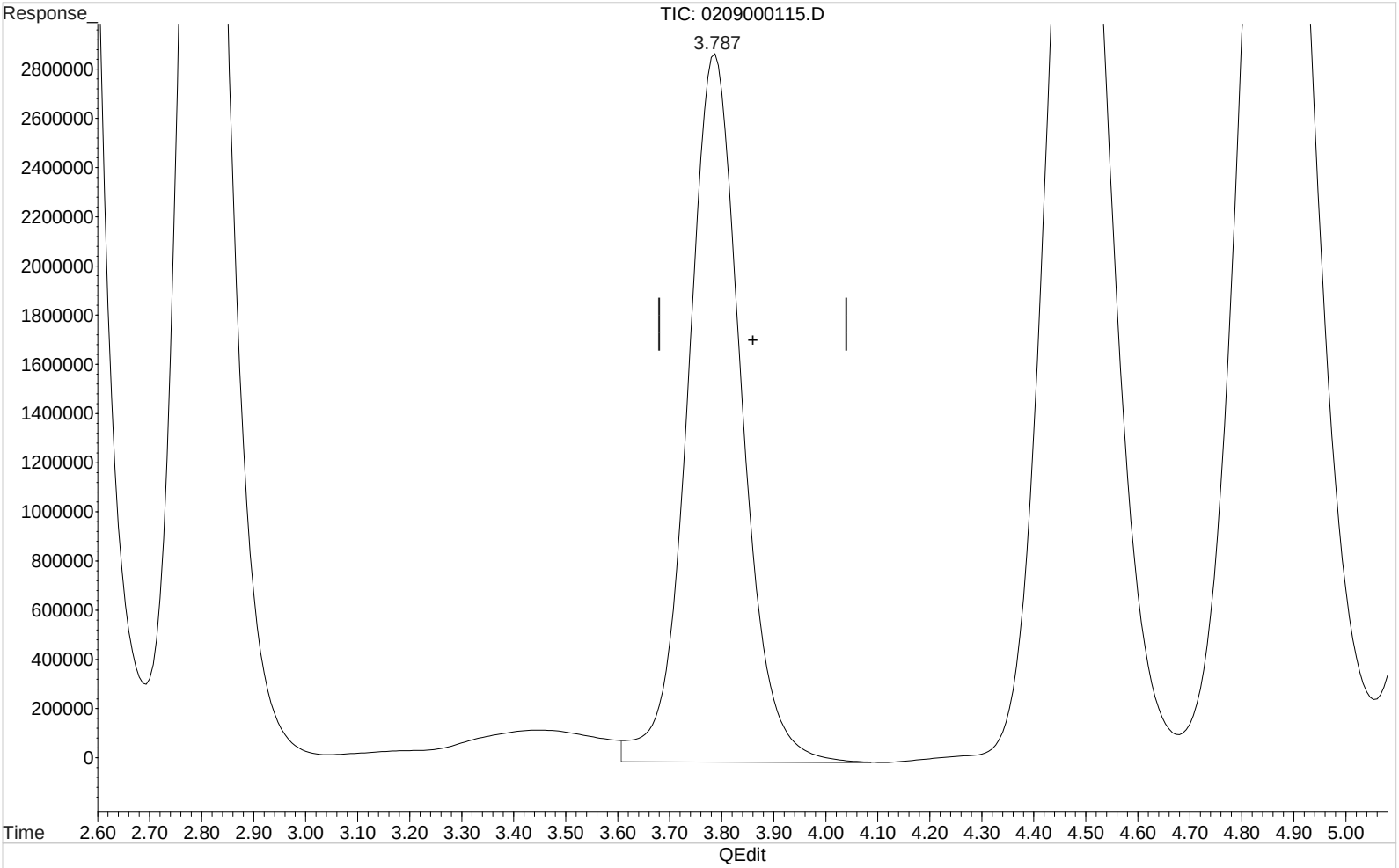
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-210\0209000115.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 10 10:37:47 2017
Quant Results File: 020917_Short_8330B@210.RES

Quant Method : J:\LC08\Method\020917_Short_8330B@210.M
Quant Title : CAL15048
QLast Update : Fri Feb 10 10:33:49 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 210nm



(1) Nitroglycerin (T)

3.787min 993.525 ug/L m

response 20764472

Manual Integration:

After

BLC

02/10/17

(+) = Expected Retention Time

Date: 2/9/2017 XC-254 YC-210

ALS Environmental

ICAL Date: 2/9/2017

By: AE

Injection Log

ICAL ID: CAL 15185 (210) CAL 15192 (254)

Stealth ID: N/A

LC8 - Agilent 1260

LIMS ID: N/A

2nd Review:

Column: Ultra Aromax SN: 150411353J

Mobile Phases A: MeOH Lot#: 56189 B: ACN Lot#: 56207 C: H_2O Lot#: 56160 NA

		File Name	Method	Dilution	R	Comments
1	PRIMER	0209000101	8330BXC.M	NA		
2	PRIMER	0209000102	8330BXC.M	NA	X	
3	IB	0209000103	8330BXC.M	NA	X	
4	17-OLC-01-09J 20 PPB	0209000104	8330BXC.M	NA	X	
5	17-OLC-01-09I 50 PPB	0209000105	8330BXC.M	NA	X	
6	17-OLC-01-09H 100 PPB	0209000106	8330BXC.M	NA	X	
7	17-OLC-01-09G 200 PPB	0209000107	8330BXC.M	NA	X	
8	17-OLC-01-09F 500 PPB	0209000108	8330BXC.M	NA	X	
9	17-OLC-01-09E 1000 PPB	0209000109	8330BXC.M	NA	X	
10	17-OLC-01-09D 2000 PPB	0209000110	8330BXC.M	NA	X	
11	17-OLC-01-09C 5000 PPB	0209000111	8330BXC.M	NA	X	
12	17-OLC-01-09B 10000 PPB	0209000112	8330BXC.M	NA	X	
13	17-OLC-01-09A 20000 PPB	0209000113	8330BXC.M	NA	X	
14	IB	0209000114	8330BXC.M	NA	X	
15	17-OLC-01-09K 1000 PPB ICV	0209000115	8330BXC.M	NA	X	
16	IB	0209000116	8330BXC.M	NA	X	

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000103.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 15:23:38 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:25:25 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
11) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	
	Target Compounds					
1) T	HMX	0.000	0	N.D.	ug/L	d
2) T	RDX	0.000	0	N.D.	ug/L	
3) T	Nitrobenzene	0.000	0	N.D.	ug/L	
4) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L	d
5) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L	d
6) T	2-NT	0.000	0	N.D.	ug/L	
7) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L	d
8) T	3-NT	0.000	0	N.D.	ug/L	d
9) T	1,3-DNB	0.000	0	N.D.	ug/L	
10) T	4-NT	0.000	0	N.D.	ug/L	
12) T	2,6-DNT	0.000	0	N.D.	ug/L	
13) T	2,4-DNT	0.000	0	N.D.	ug/L	d
14) T	Tetryl	0.000	0	N.D.	ug/L	d
15) T	1,3,5-TNB	0.000	0	N.D.	ug/L	d
16) T	2,4,6-TNT	0.000	0	N.D.	ug/L	d

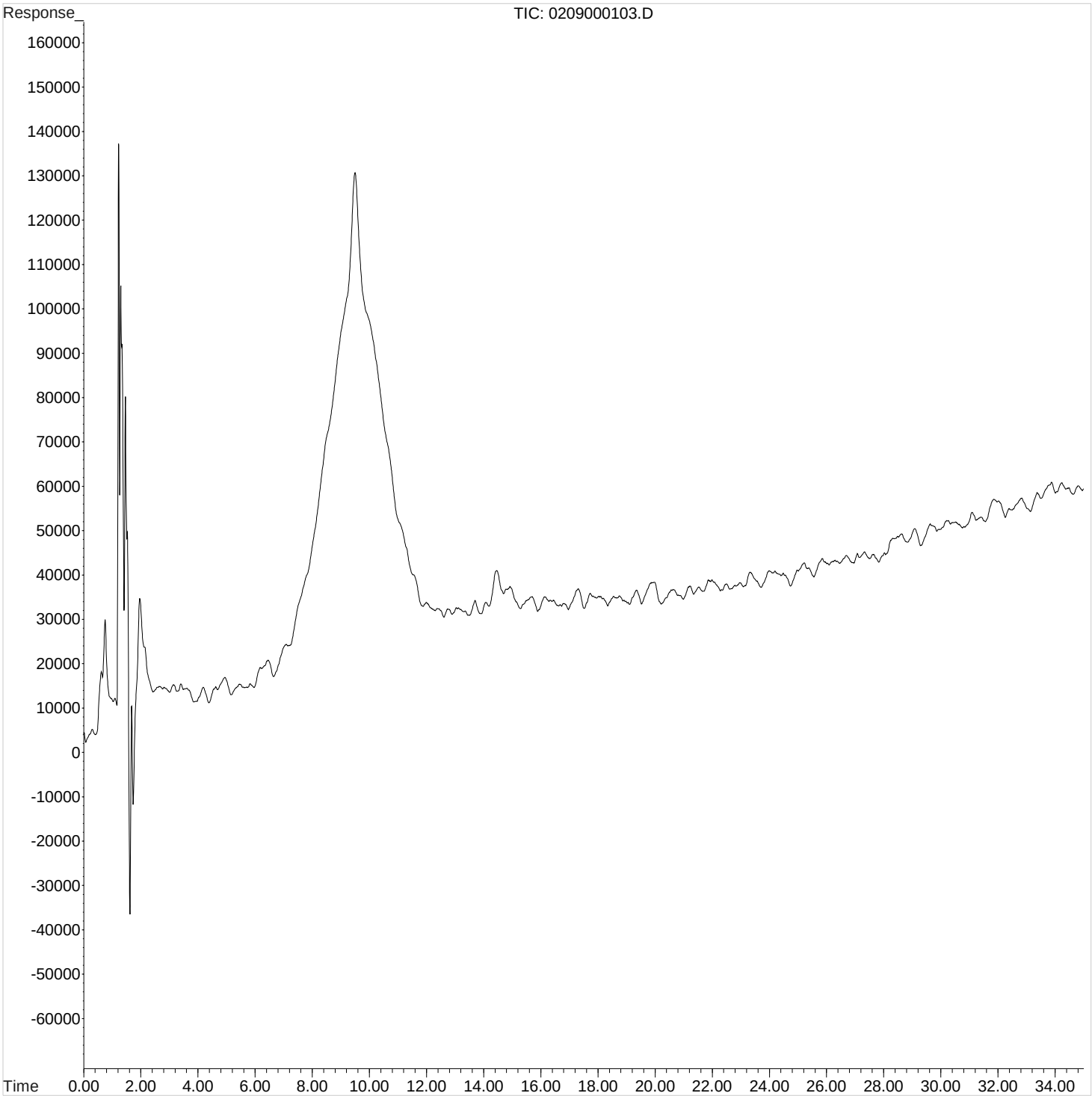
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000103.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 15:23:38 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:25:25 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:16:35 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
11) S	1-Chloro-3-Nitrobenzene	8.147	514214	19.490	ug/L	m
	Target Compounds					
1) T	HMX	2.553	294269	18.763	ug/L	m
2) T	RDX	2.807	452332	24.916	ug/L	m
3) T	Nitrobenzene	4.487	743763	19.991	ug/L	m
4) T	3,5-Dinitroaniline	5.247	964857	20.844	ug/L	m
5) T	4-Amino-2,6-DNT	4.873	652694	20.547	ug/L	m
6) T	2-NT	5.867	473214	20.100	ug/L	m
7) T	2-Amino-4,6-DNT	6.367	889746	21.218	ug/L	m
8) T	3-NT	6.987	566568	20.307	ug/L	m
9) T	1,3-DNB	9.147	1128441	20.188	ug/L	m
10) T	4-NT	7.853	544768	23.816	ug/L	m
12) T	2,6-DNT	8.827	491185	20.081	ug/L	m
13) T	2,4-DNT	14.827	1250552	24.282	ug/L	
14) T	Tetryl	12.993	621836	21.319	ug/L	m
15) T	1,3,5-TNB	19.800	970683	23.433	ug/L	
16) T	2,4,6-TNT	20.793	819690	21.258	ug/L	

(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)

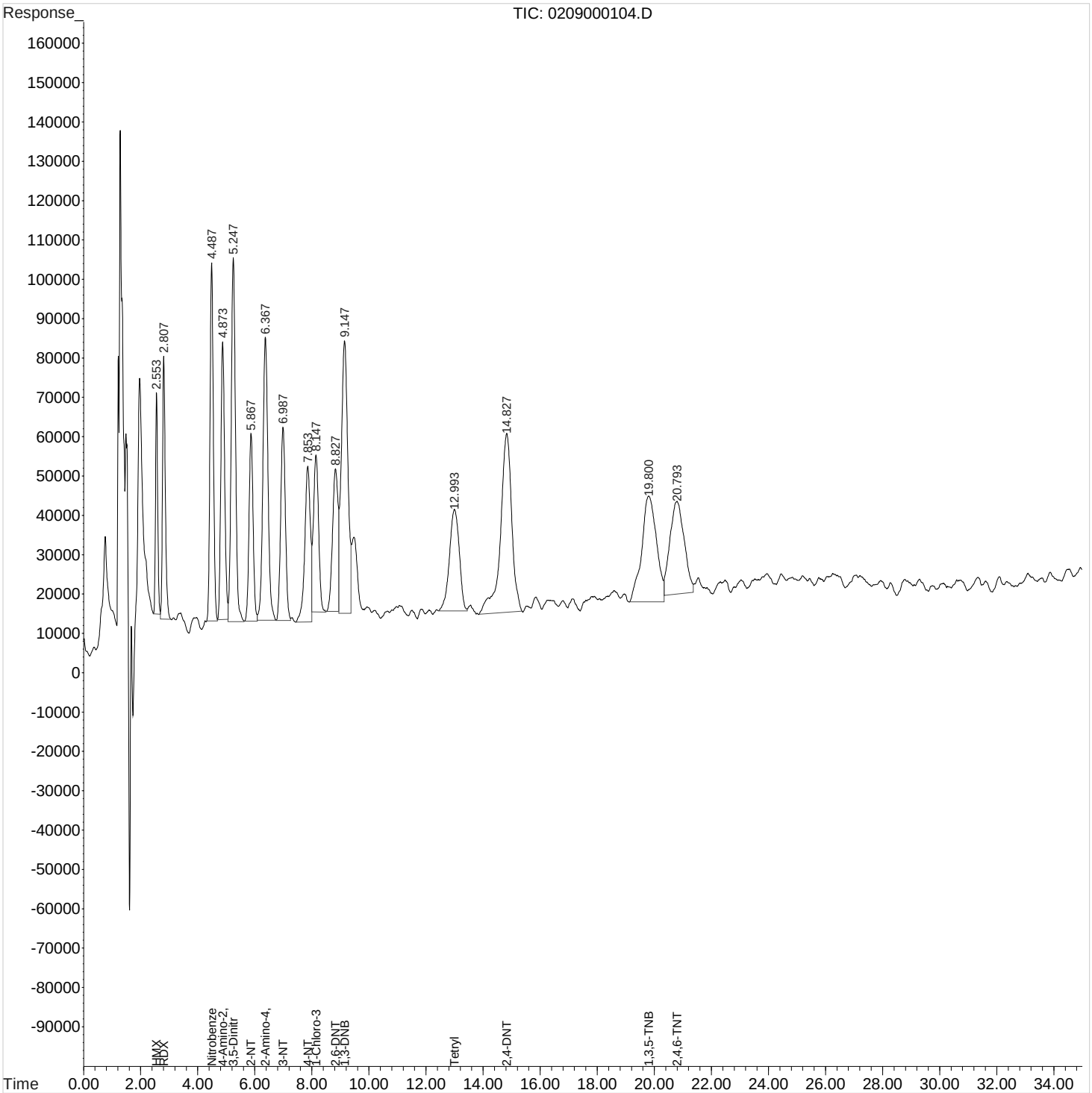
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:16:35 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

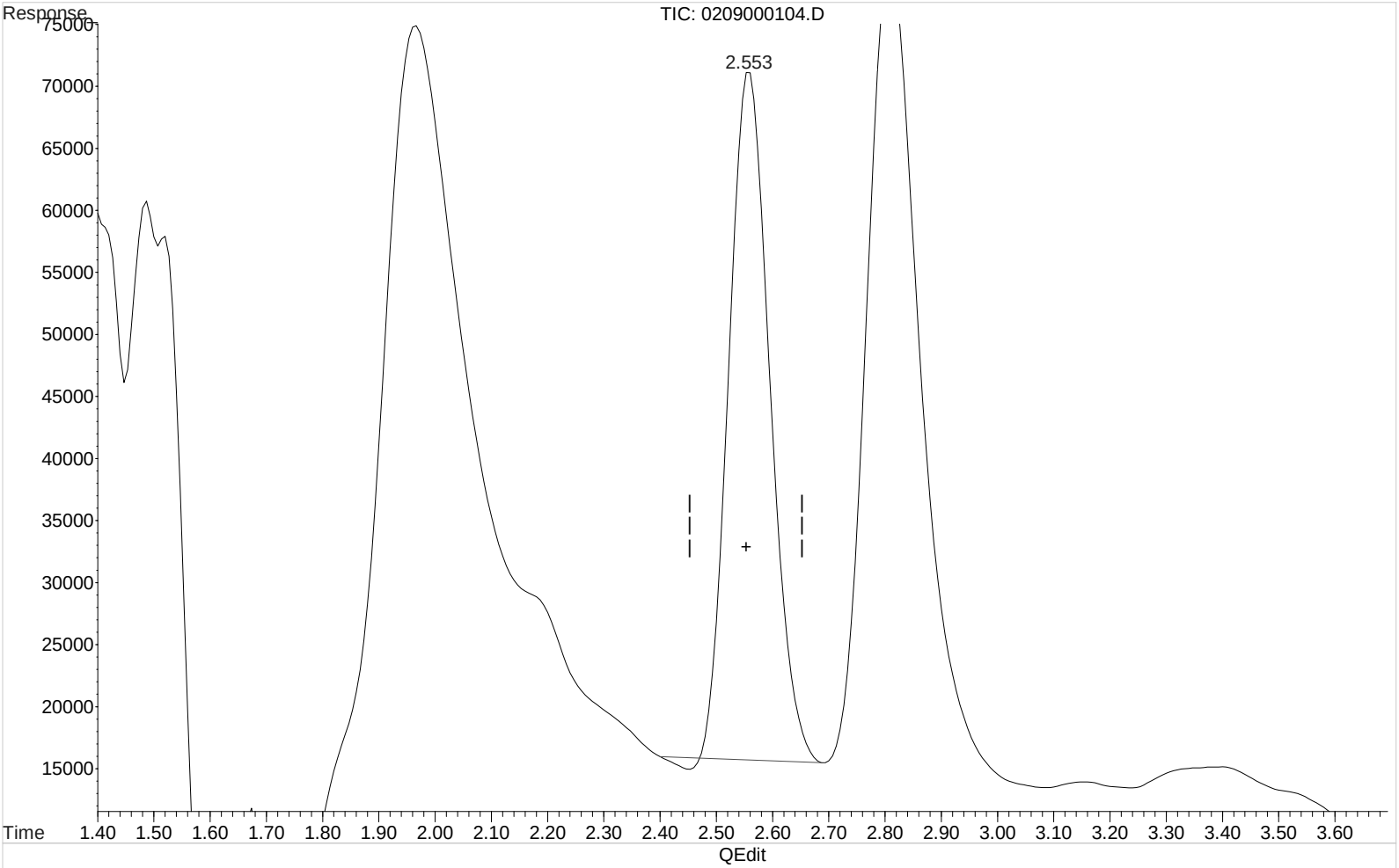


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.553min 17.958 ug/L

response 281642

Manual Integration:

Before

02/13/17

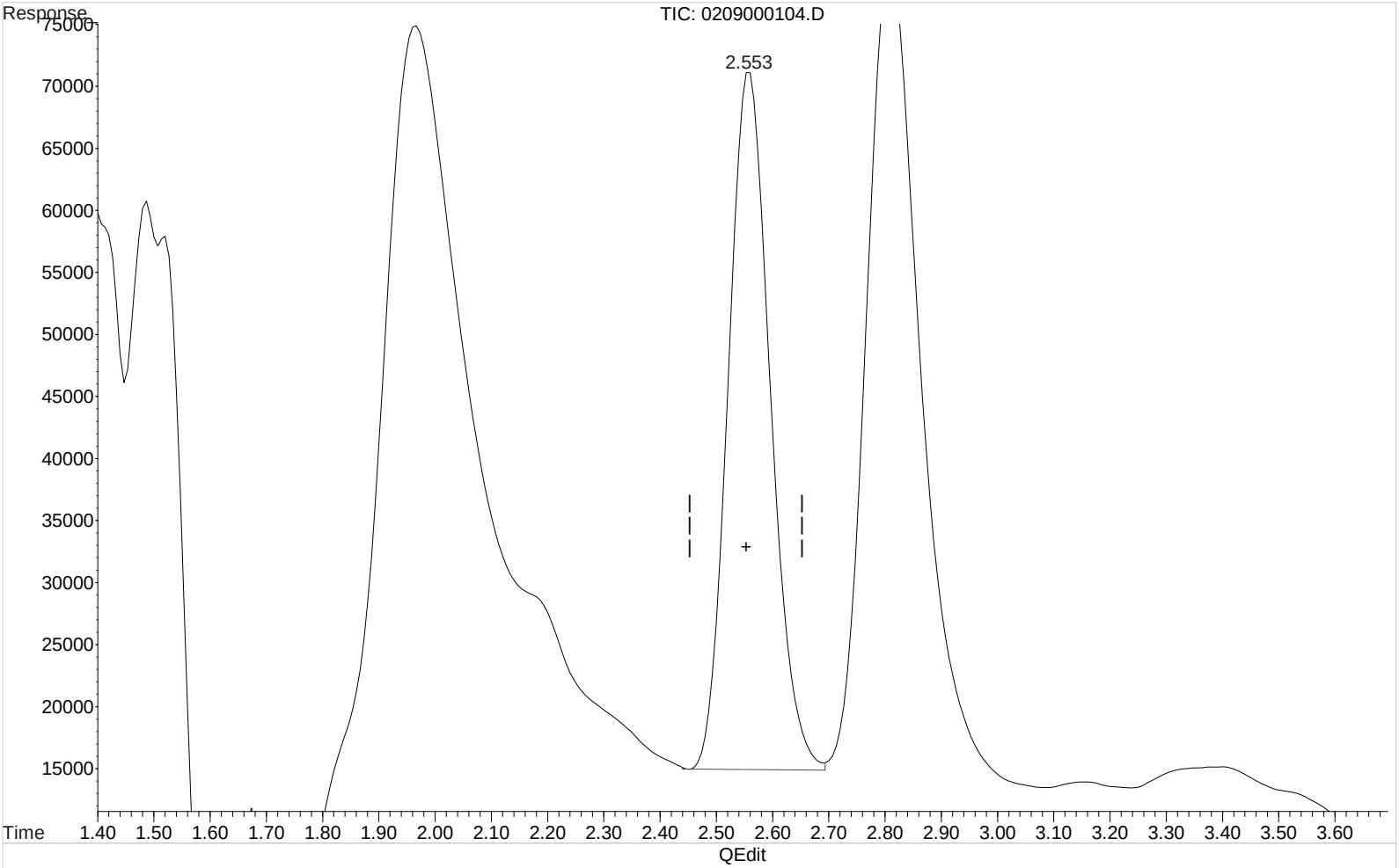
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(1) HMX (T)

2.553min 18.763 ug/L m

response 294269

Manual Integration:

After

BLC

02/13/17

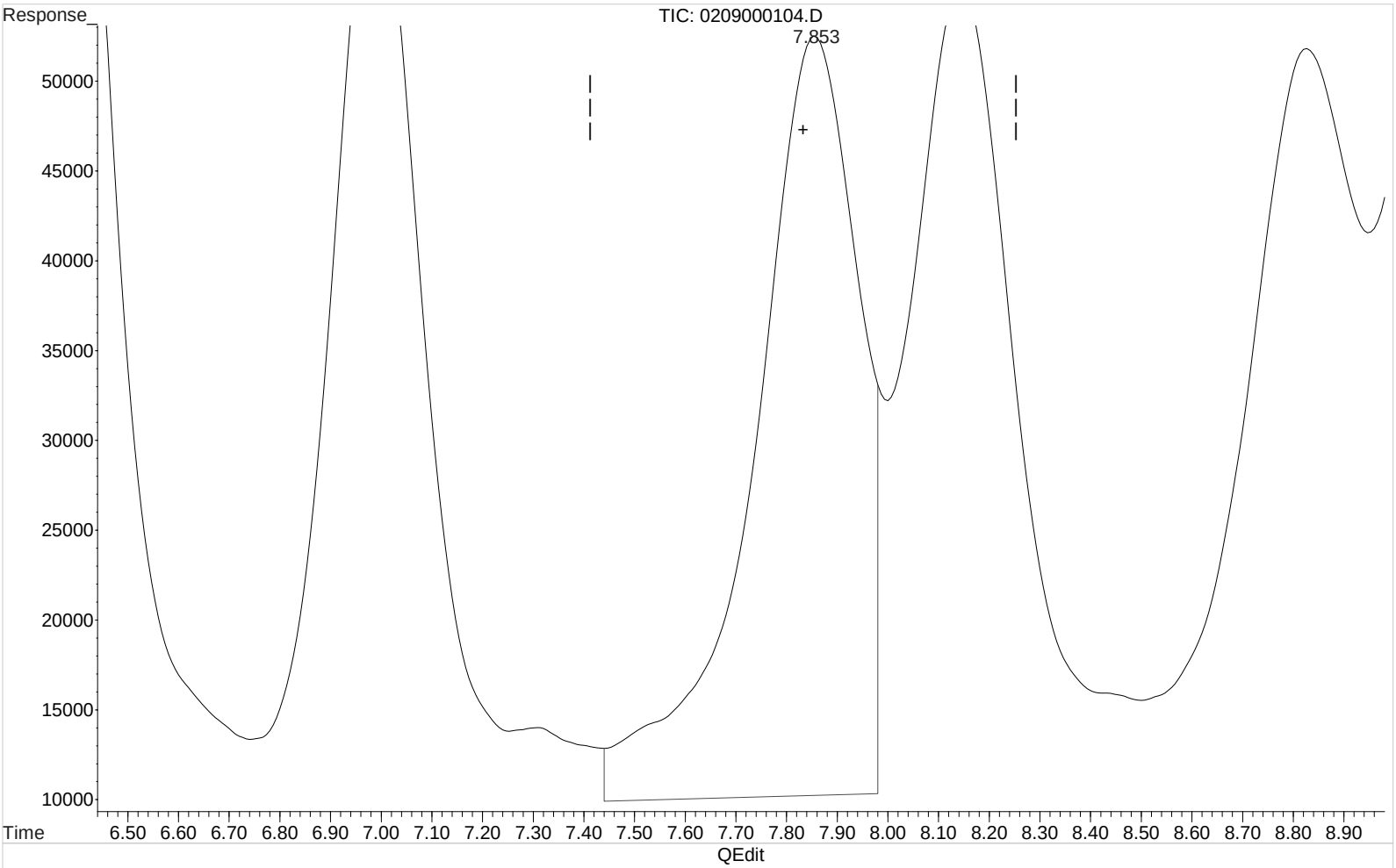
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(10) 4-NT (T)

7.853min 26.678 ug/L

response 610248

Manual Integration:

Before

02/13/17

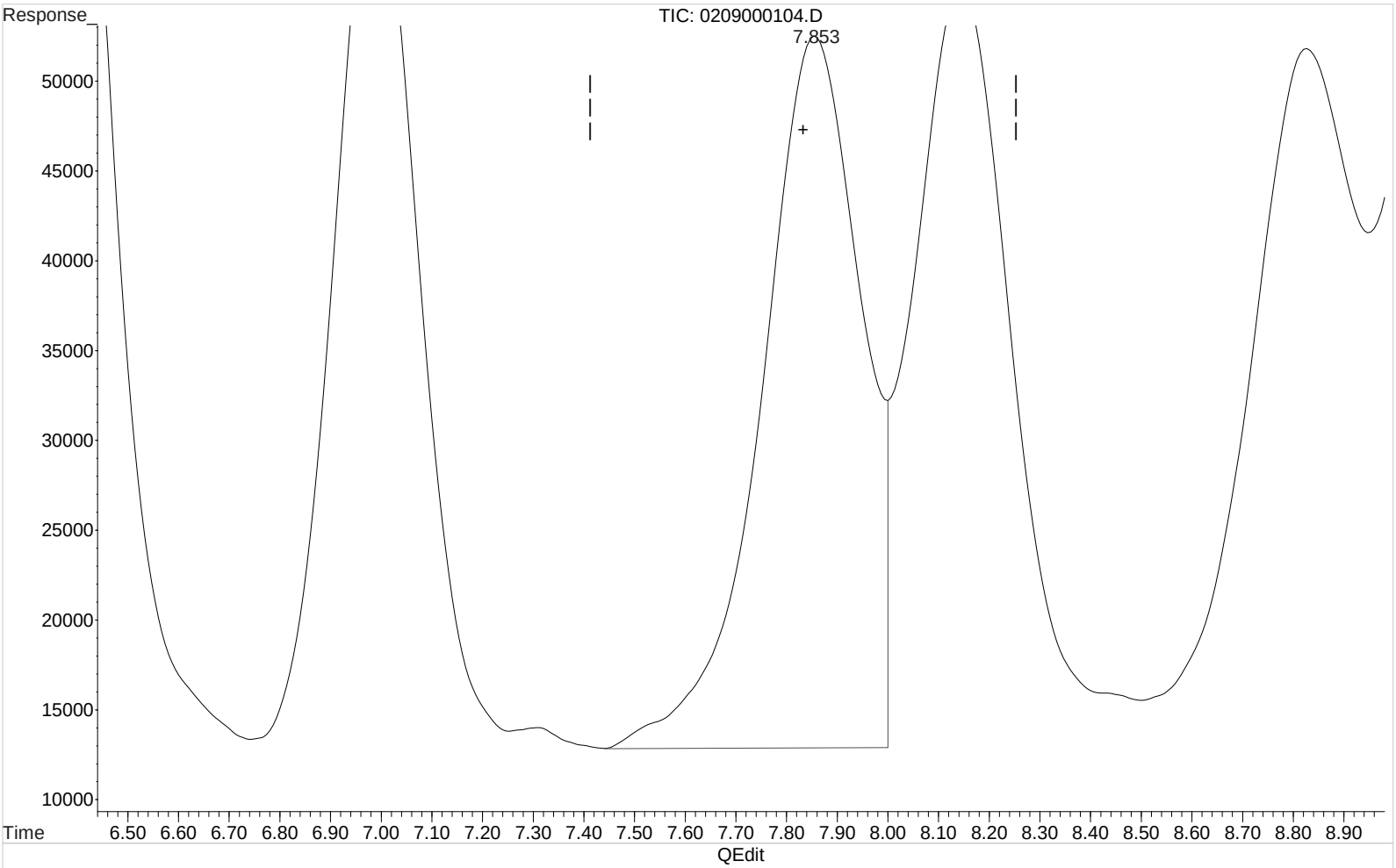
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(10) 4-NT (T)

7.853min 23.816 ug/L m

response 544768

Manual Integration:

After

BLC

02/13/17

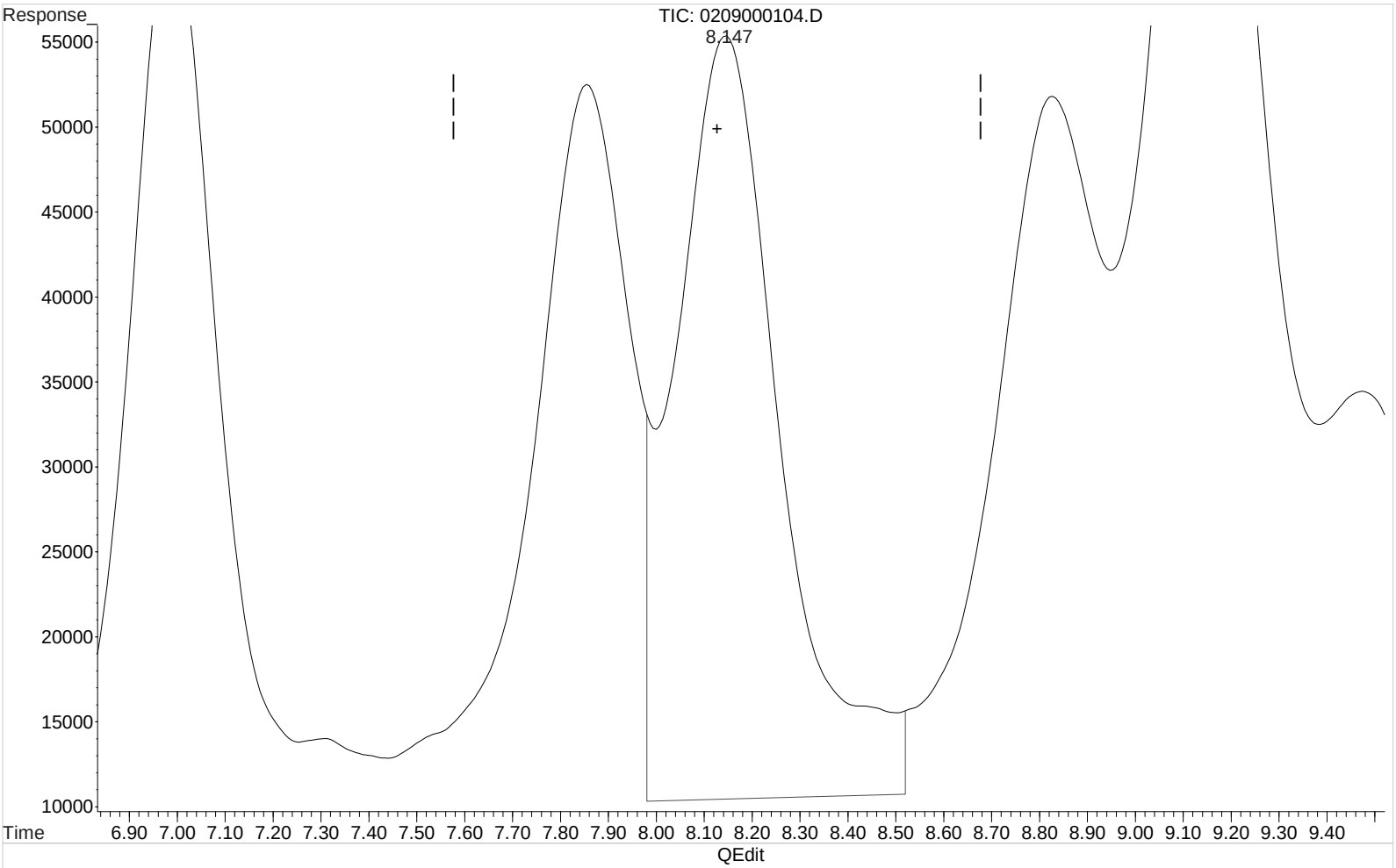
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(11) 1-Chloro-3-Nitrobenzene (S)

8.147min 25.798 ug/L

response 680648

Manual Integration:

Before

02/13/17

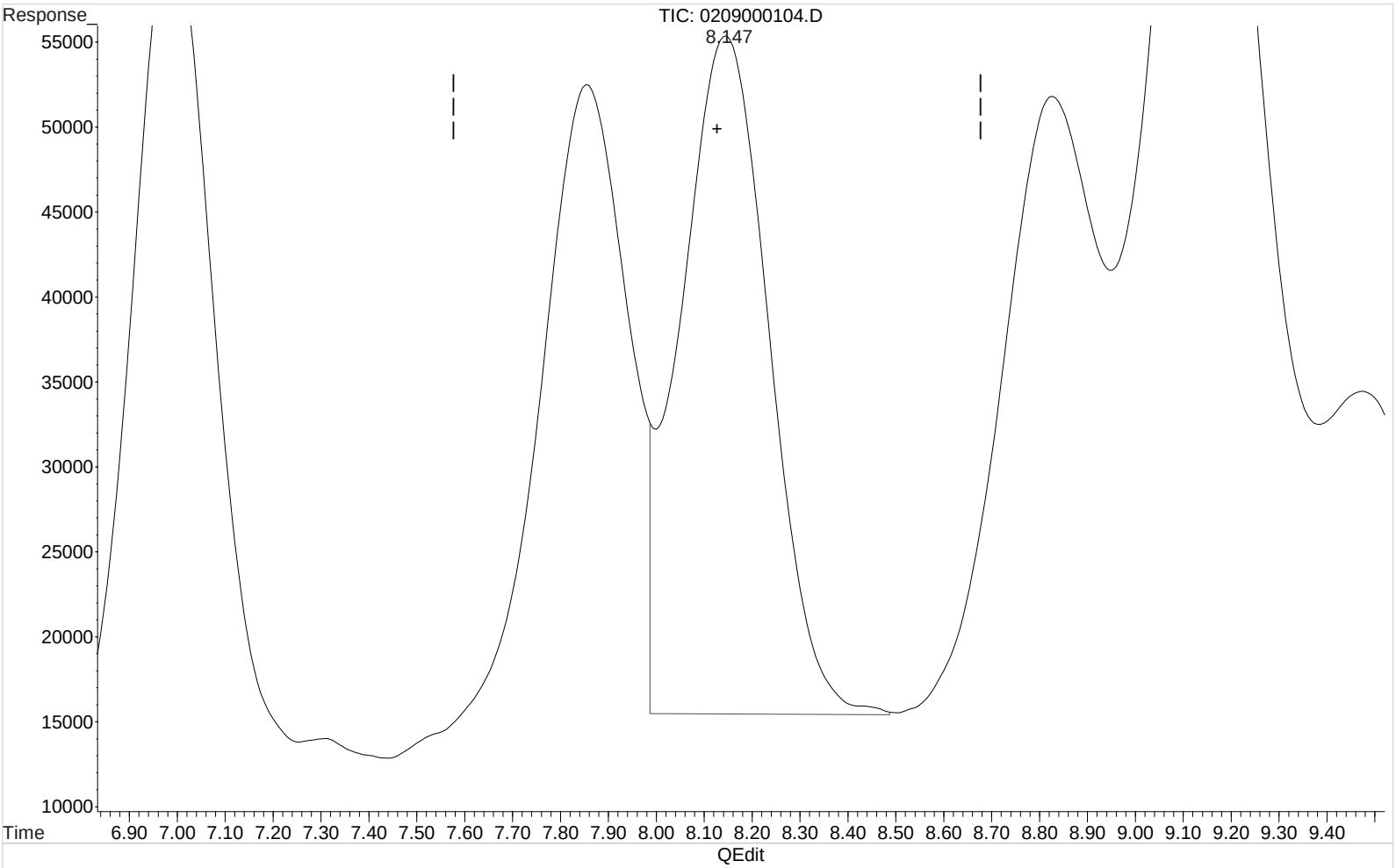
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(11) 1-Chloro-3-Nitrobenzene (S)

8.147min 19.490 ug/L m

response 514214

Manual Integration:

After

BLC

02/13/17

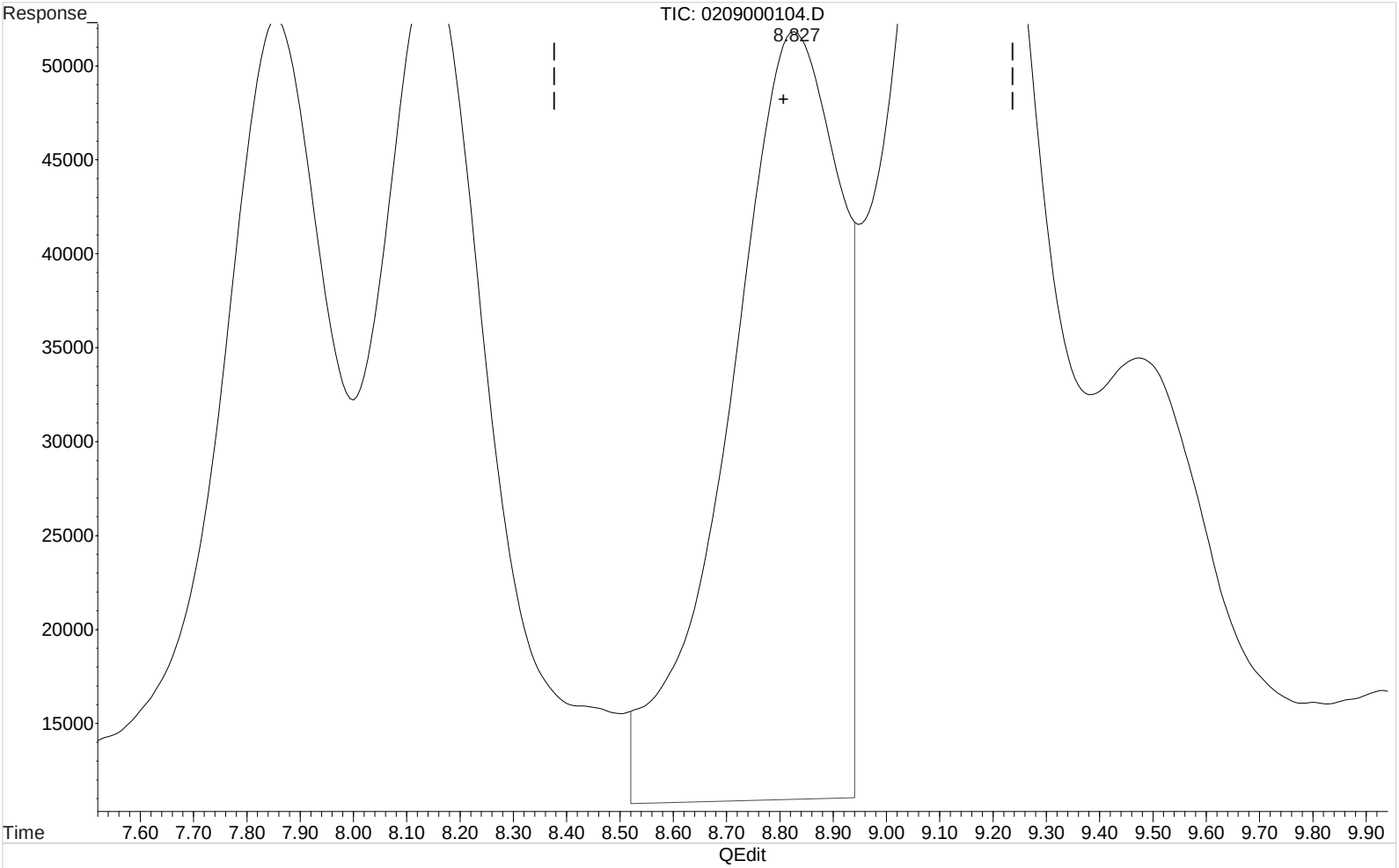
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(12) 2,6-DNT (T)

8.827min 24.500 ug/L

response 599282

Manual Integration:

Before

02/13/17

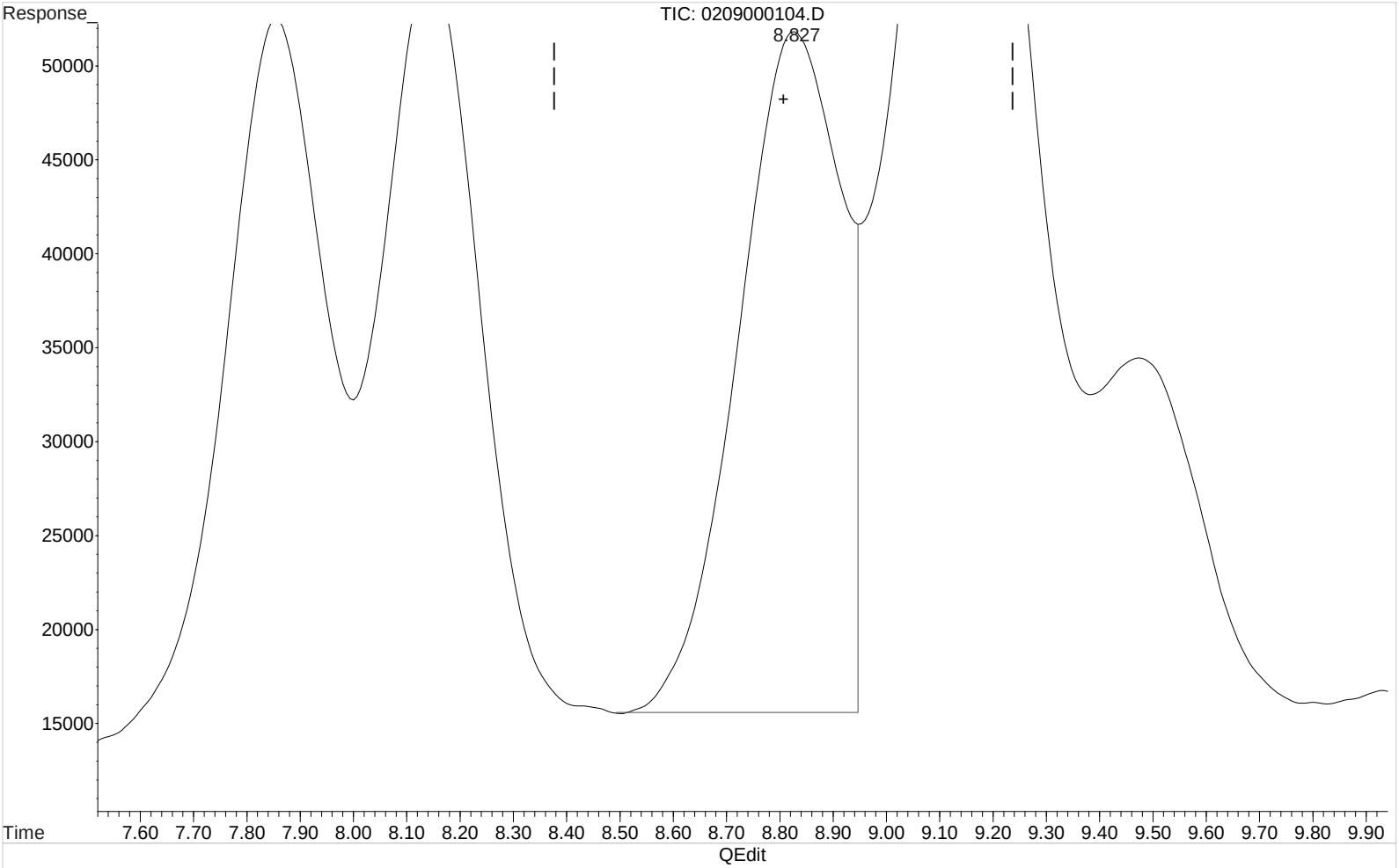
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(12) 2,6-DNT (T)

8.827min 20.081 ug/L m

response 491185

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

(b) (6)

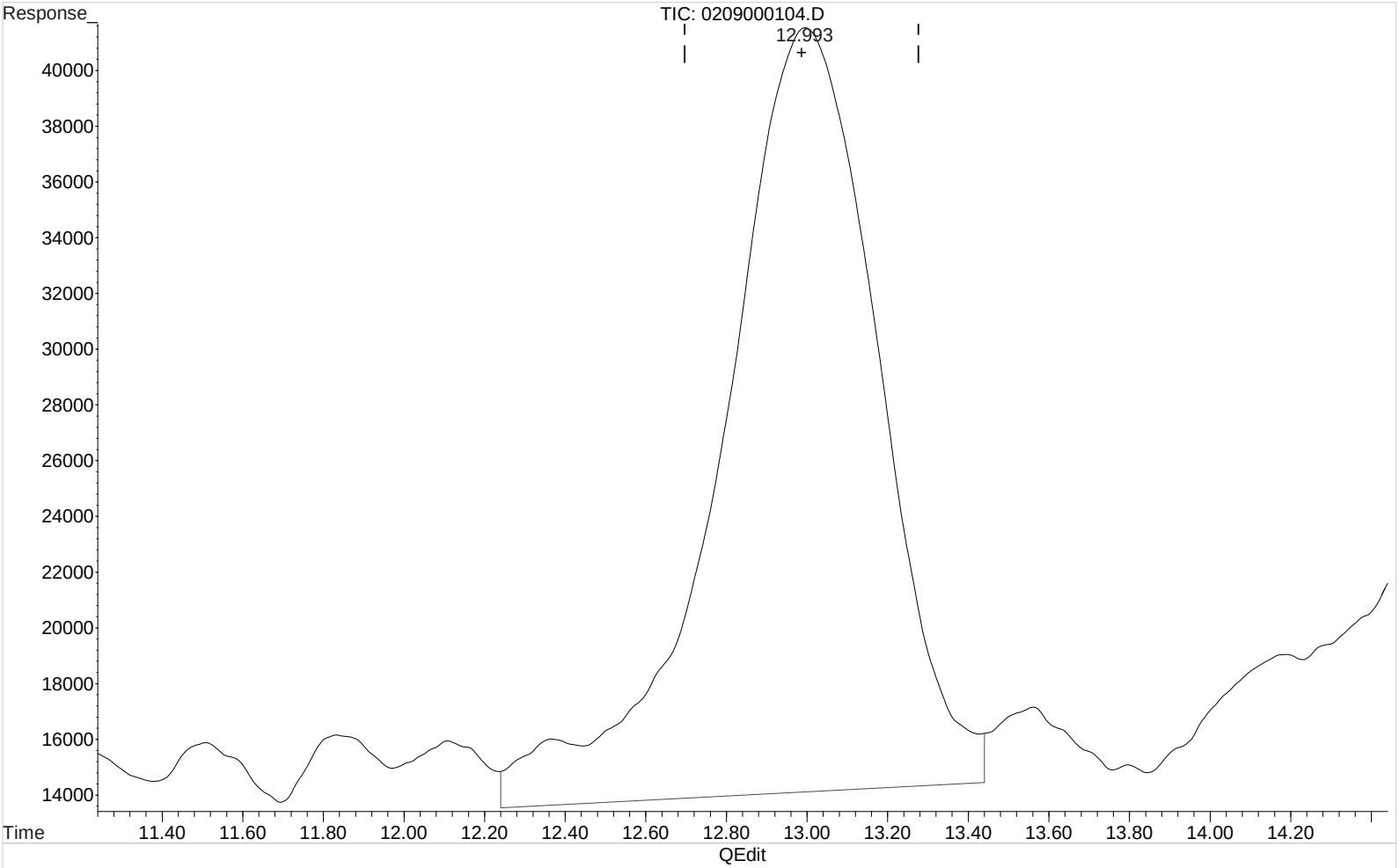
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(14) Tetryl (T)

12.993min 25.507 ug/L

response 743989

Manual Integration:

Before

02/13/17

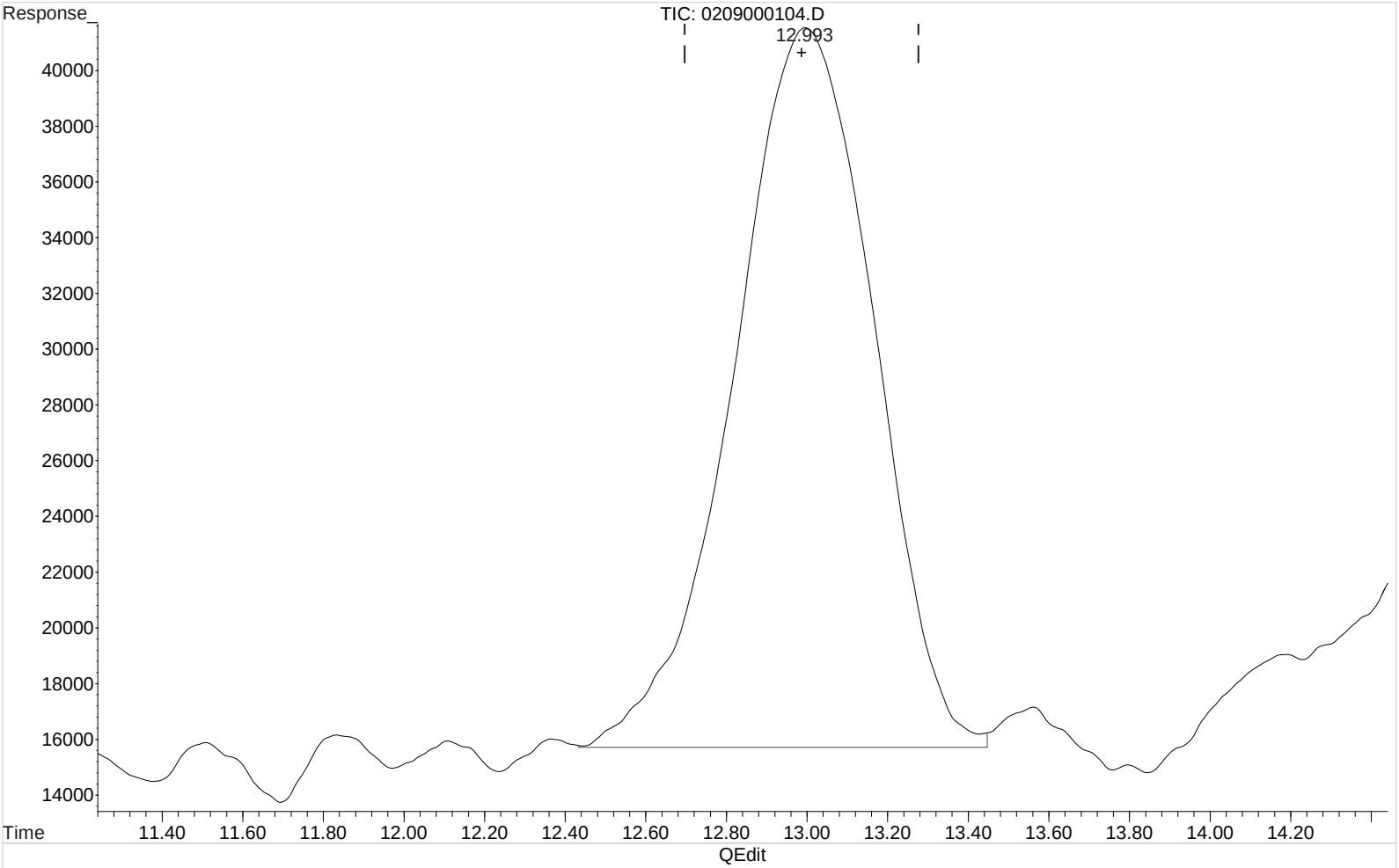
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(14) Tetryl (T)

12.993min 21.319 ug/L m

response 621836

Manual Integration:

After

BLC

02/13/17

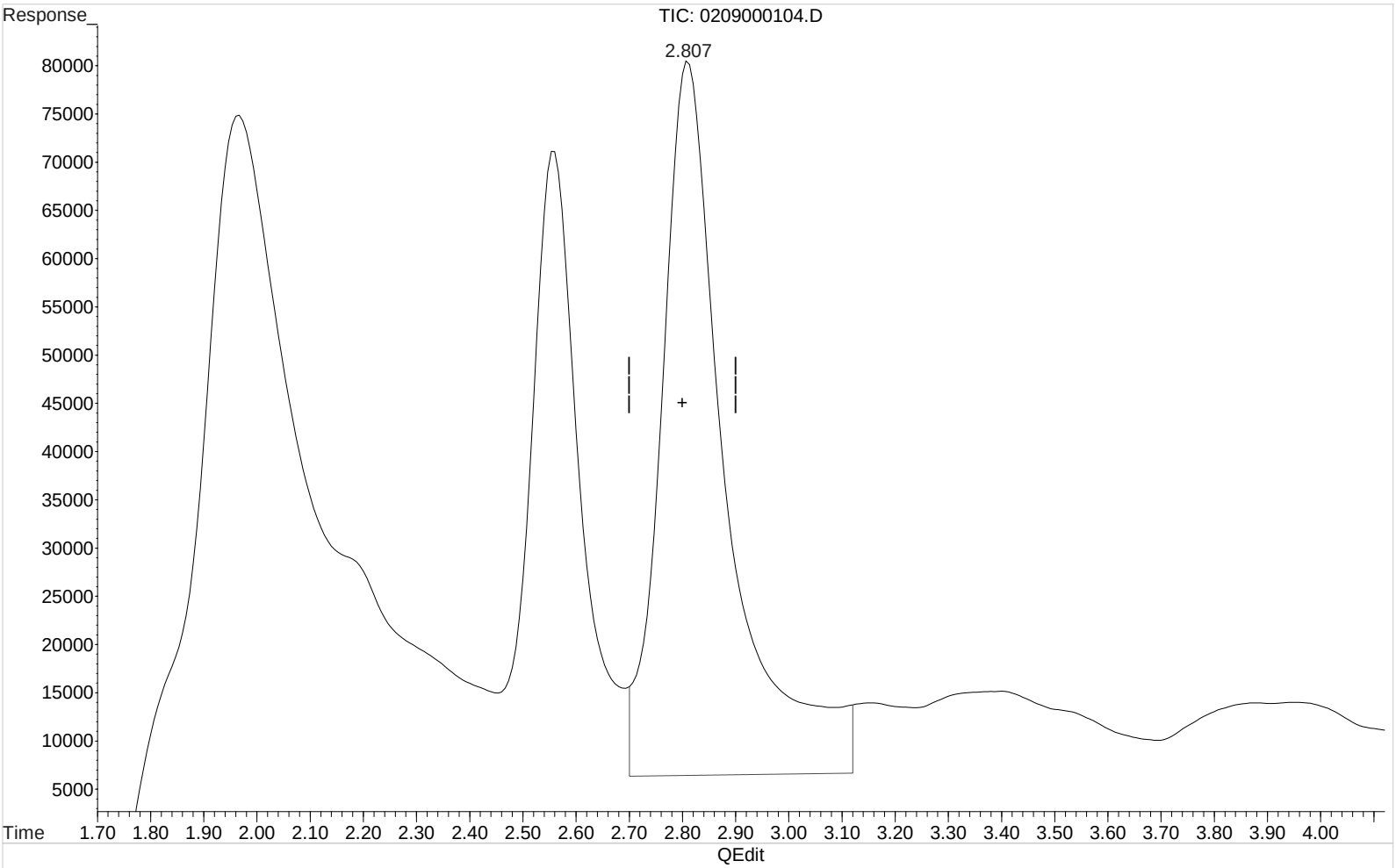
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.807min 34.755 ug/L

response 630962

Manual Integration:

Before

02/13/17

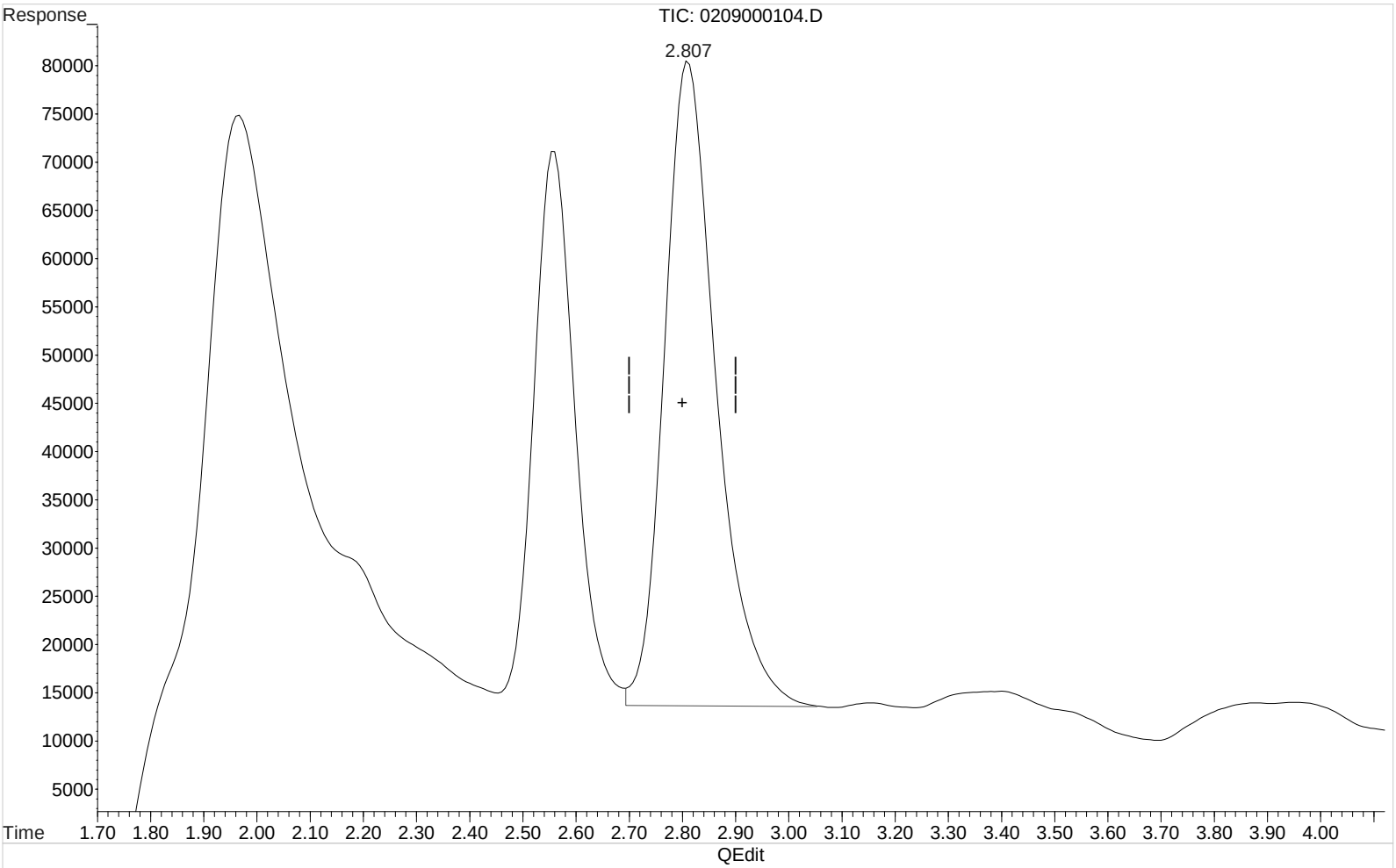
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.807min 24.916 ug/L m

response 452332

Manual Integration:

After

BLC

02/13/17

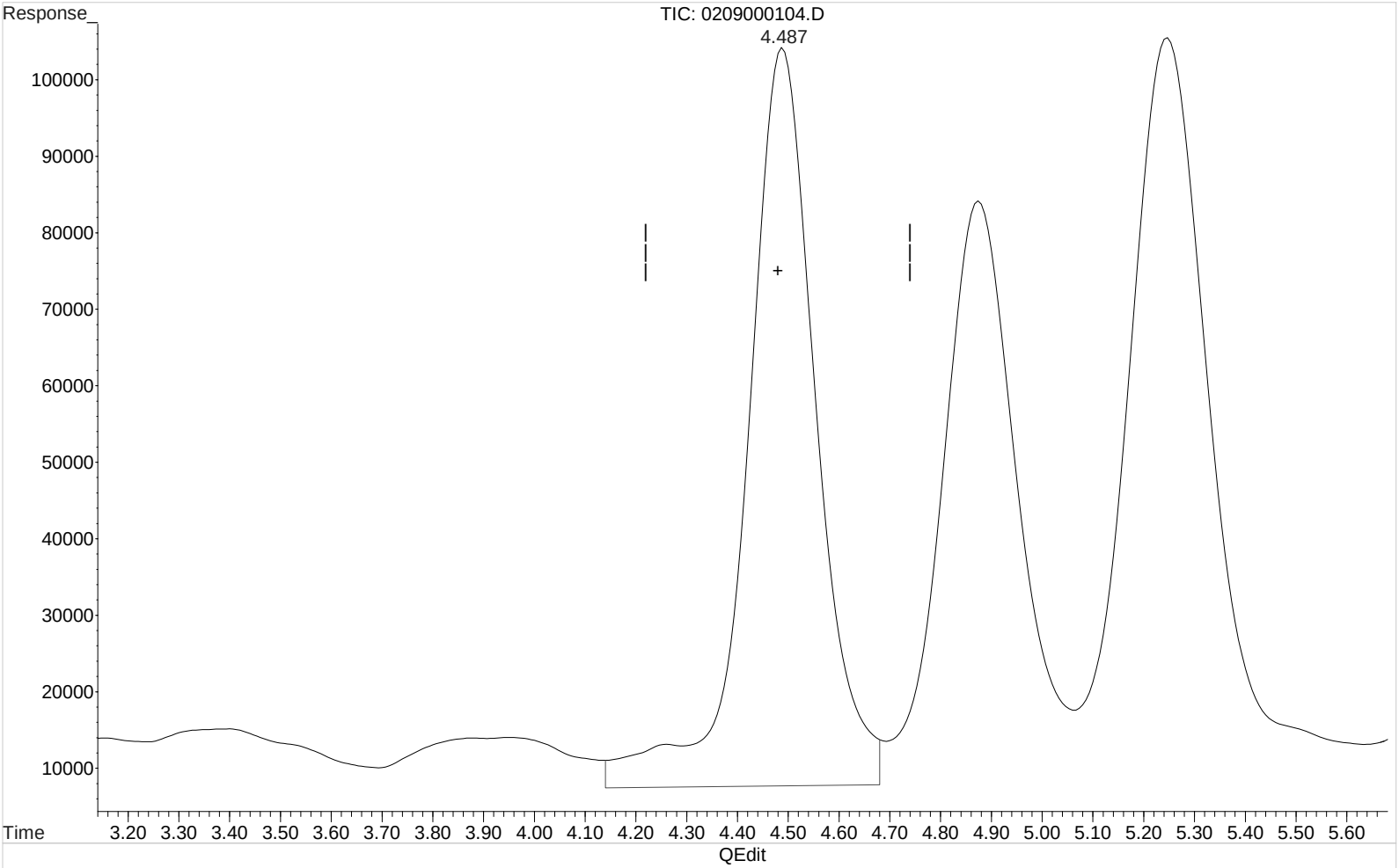
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(3) Nitrobenzene (T)

4.487min 24.547 ug/L

response 913278

Manual Integration:

Before

02/13/17

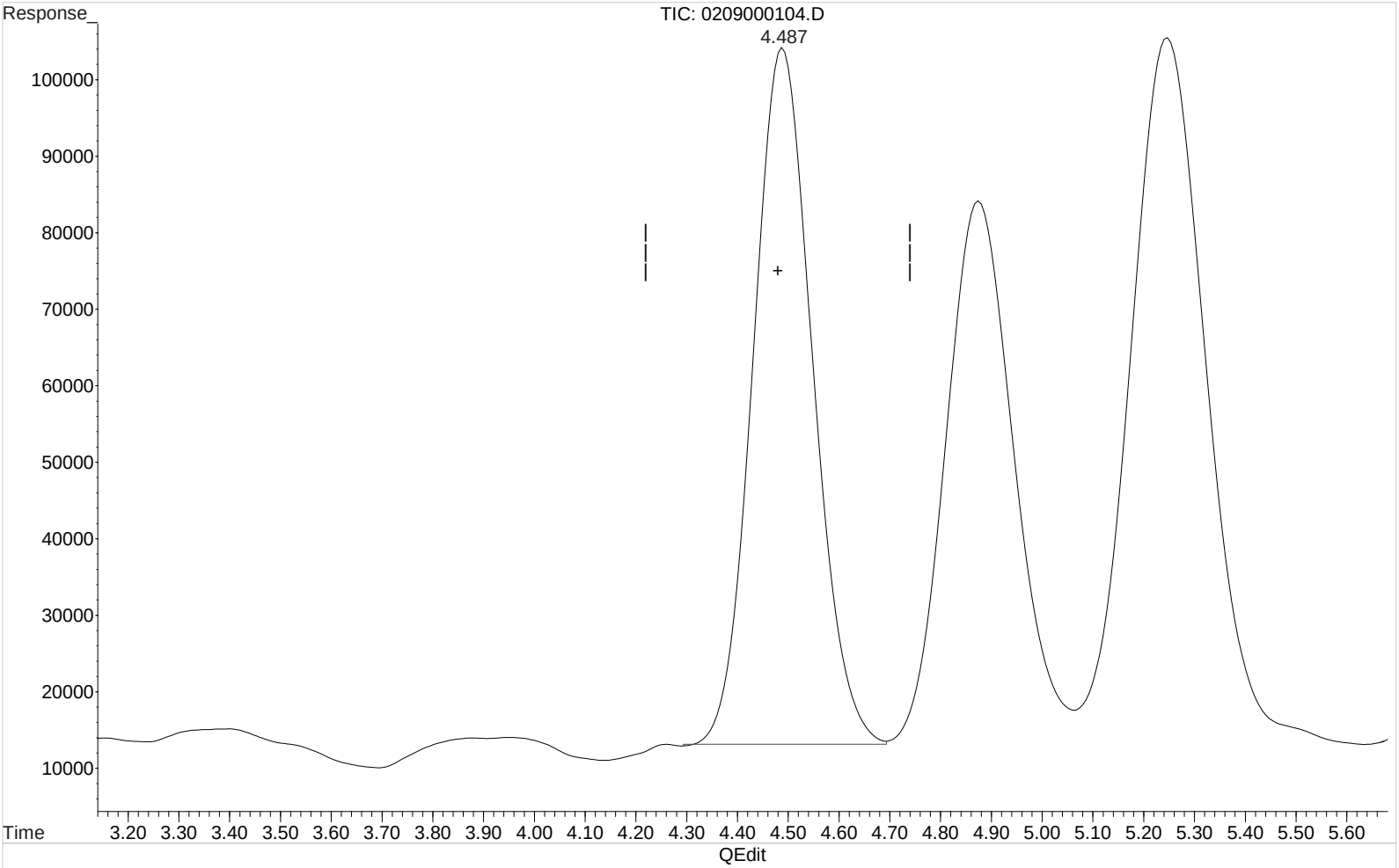
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 19.991 ug/L m

response 743763

Manual Integration:

After

BLC

02/13/17

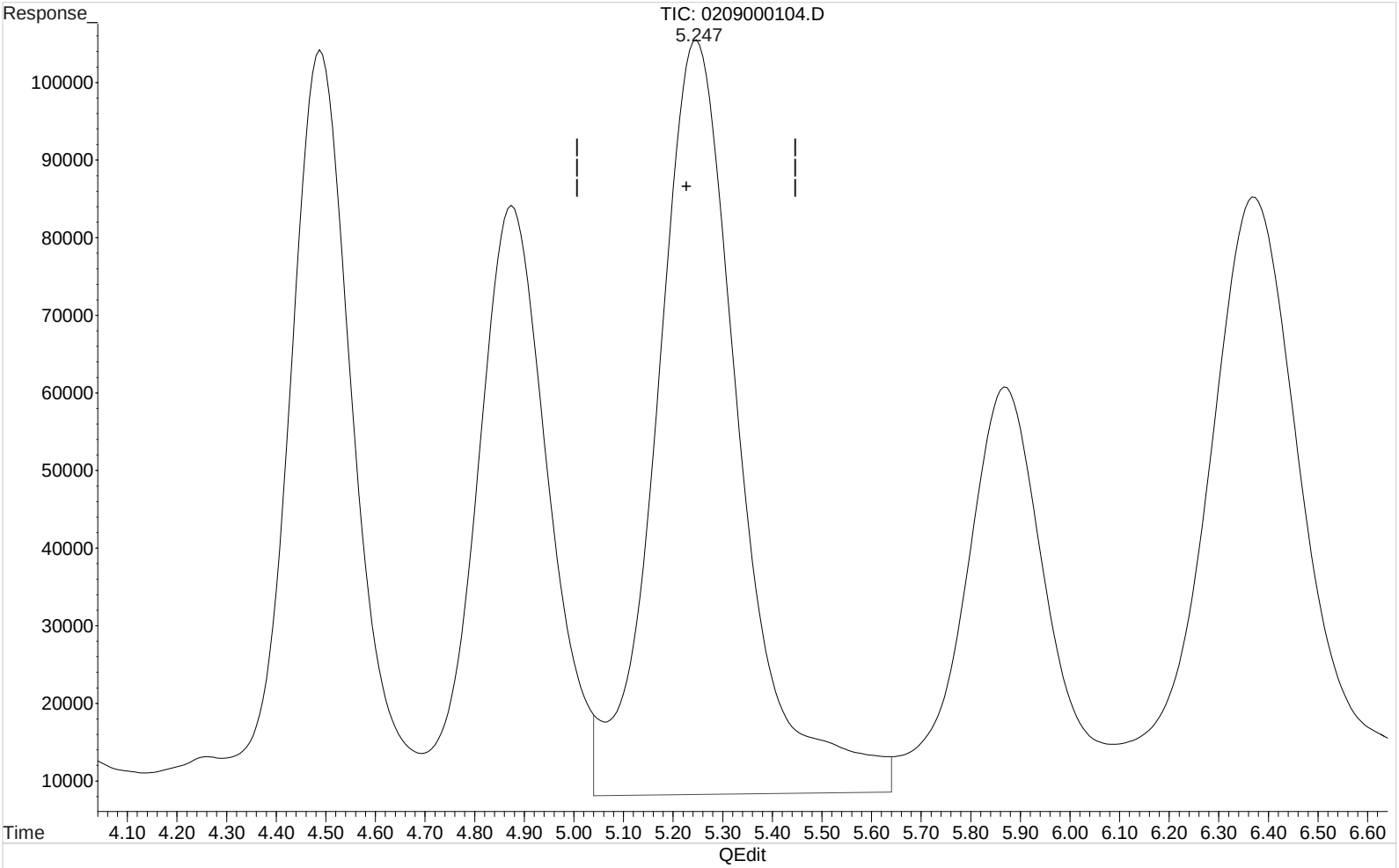
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(4) 3,5-Dinitroaniline (T)

5.247min 24.596 ug/L

response 1138541

Manual Integration:

Before

02/13/17

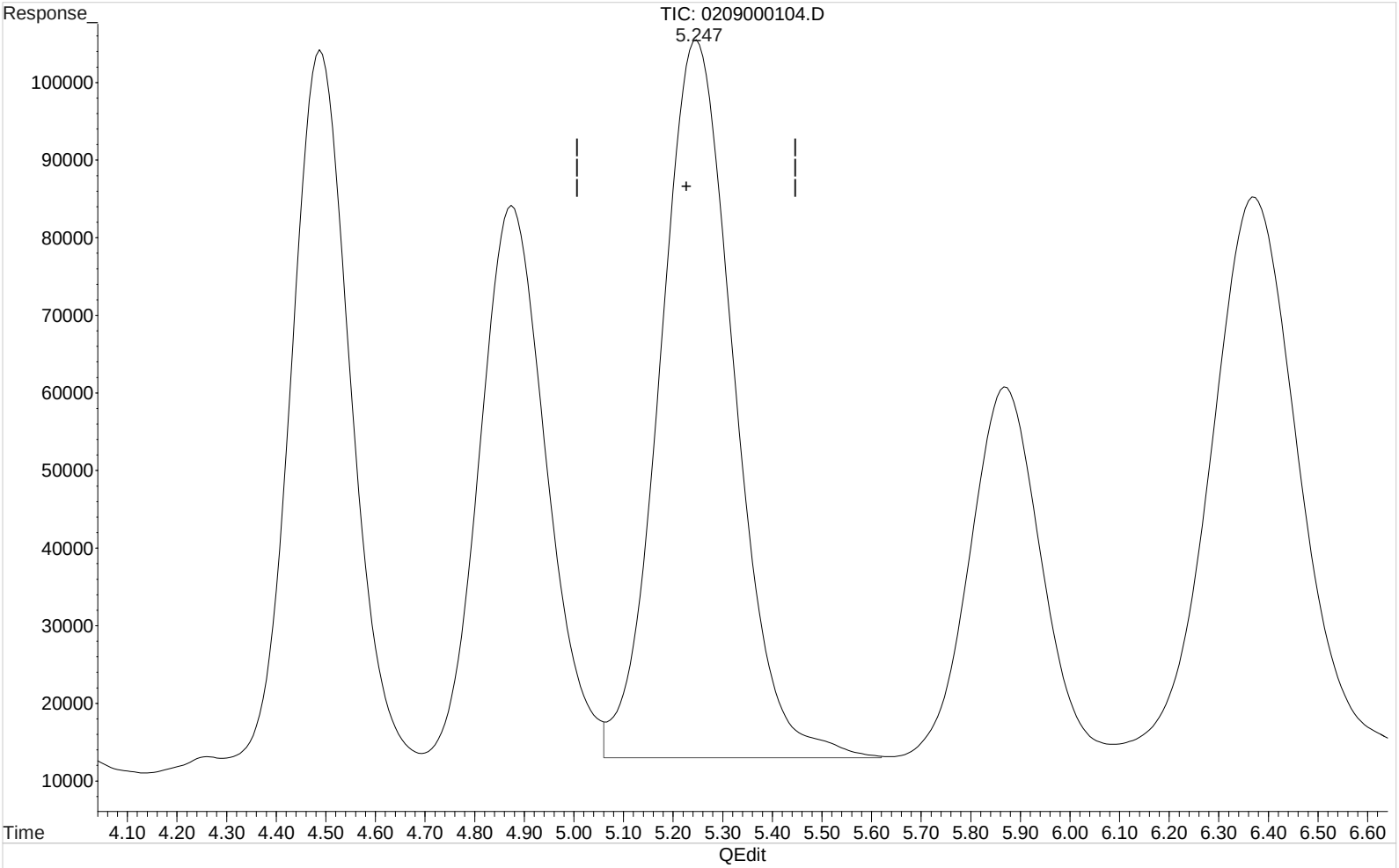
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(4) 3,5-Dinitroaniline (T)

5.247min 20.844 ug/L m

response 964857

Manual Integration:

After

BLC

02/13/17

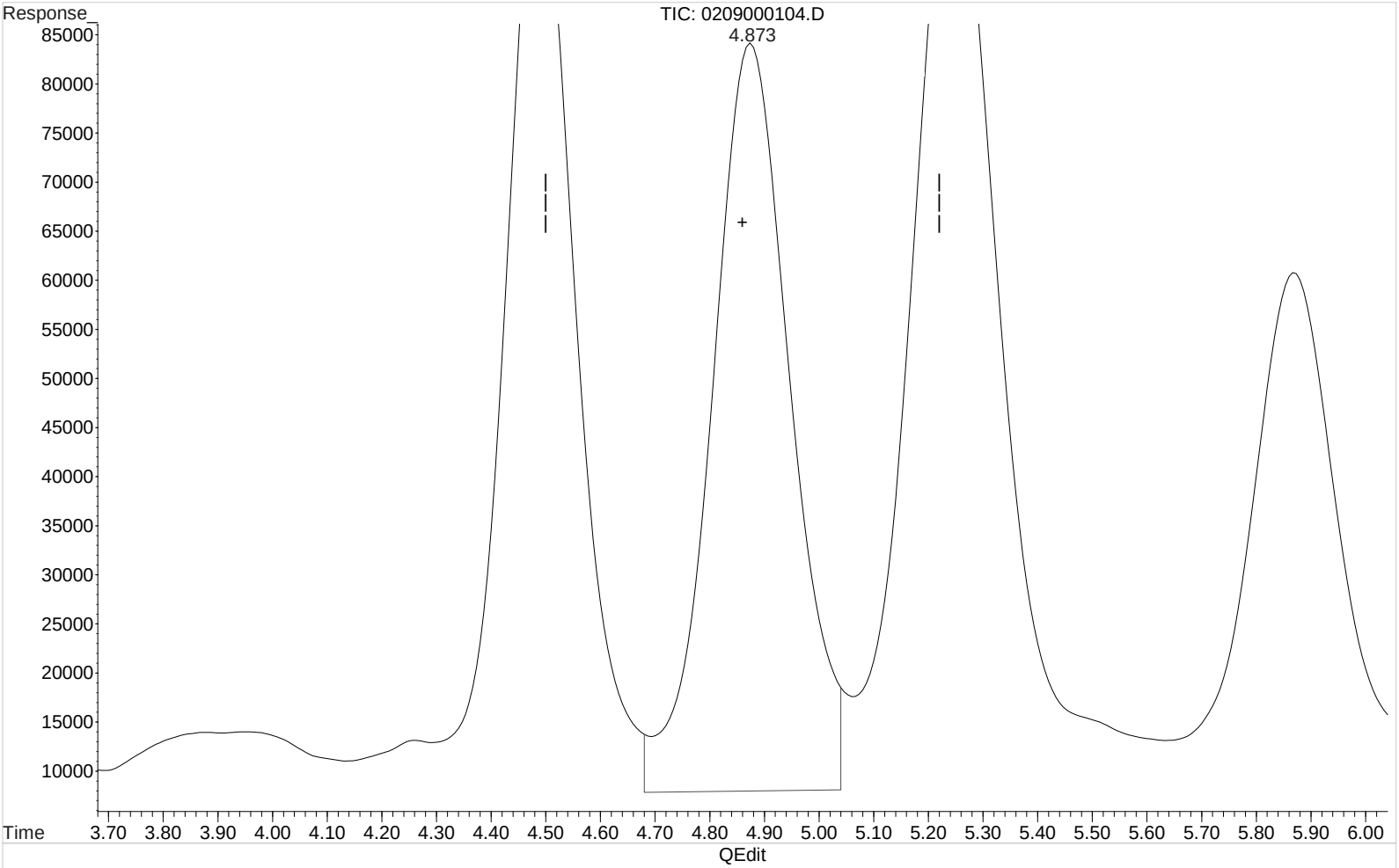
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(5) 4-Amino-2,6-DNT (T)

4.873min 24.112 ug/L

response 765953

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b) (6)

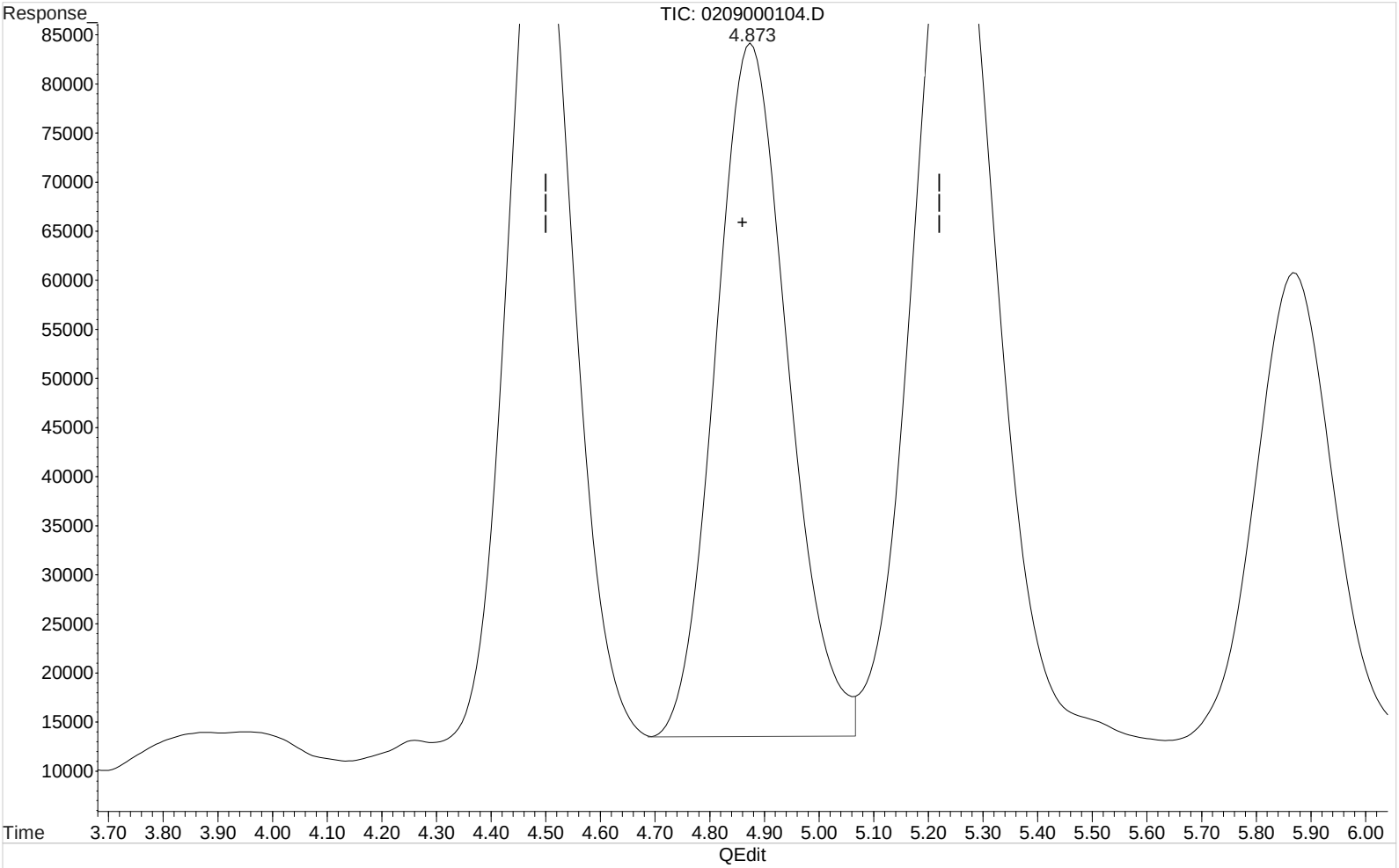
02/13/17

02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(5) 4-Amino-2,6-DNT (T)

4.873min 20.547 ug/L m

response 652694

Manual Integration:

After

BLC

02/13/17

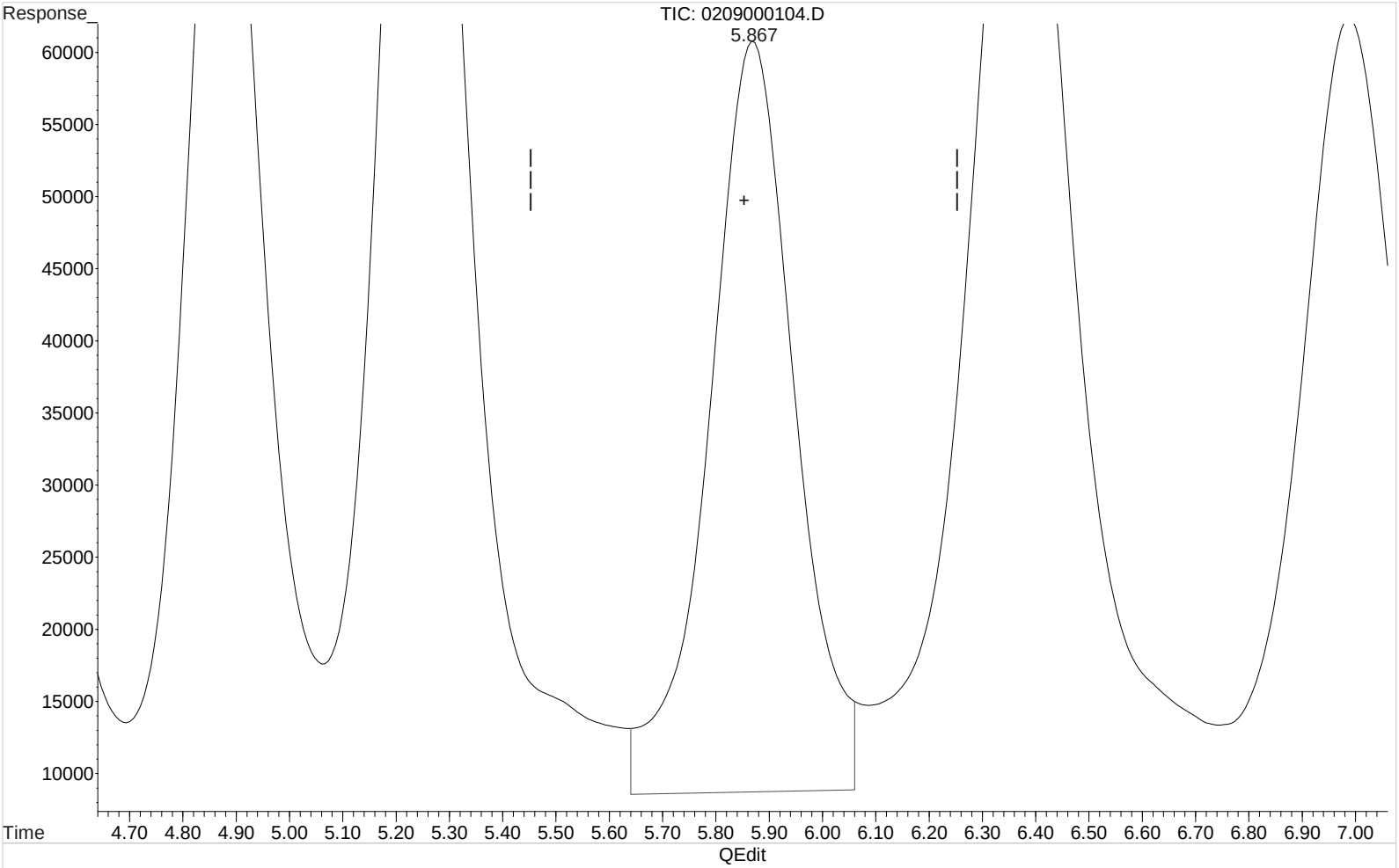
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.867min 24.679 ug/L

response 581023

Manual Integration:

Before

02/13/17

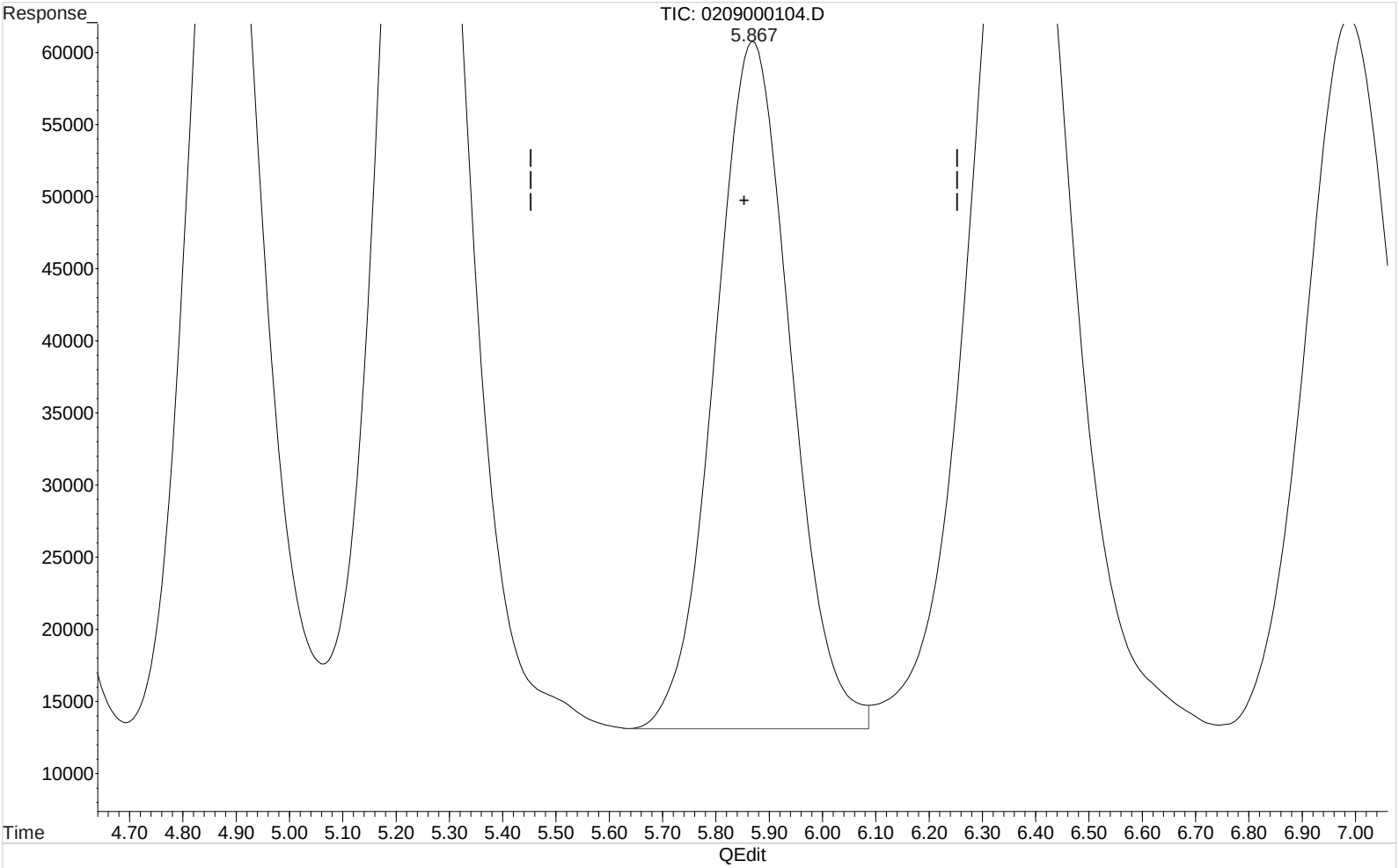
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.867min 20.100 ug/L m

response 473214

Manual Integration:

After

BLC

02/13/17

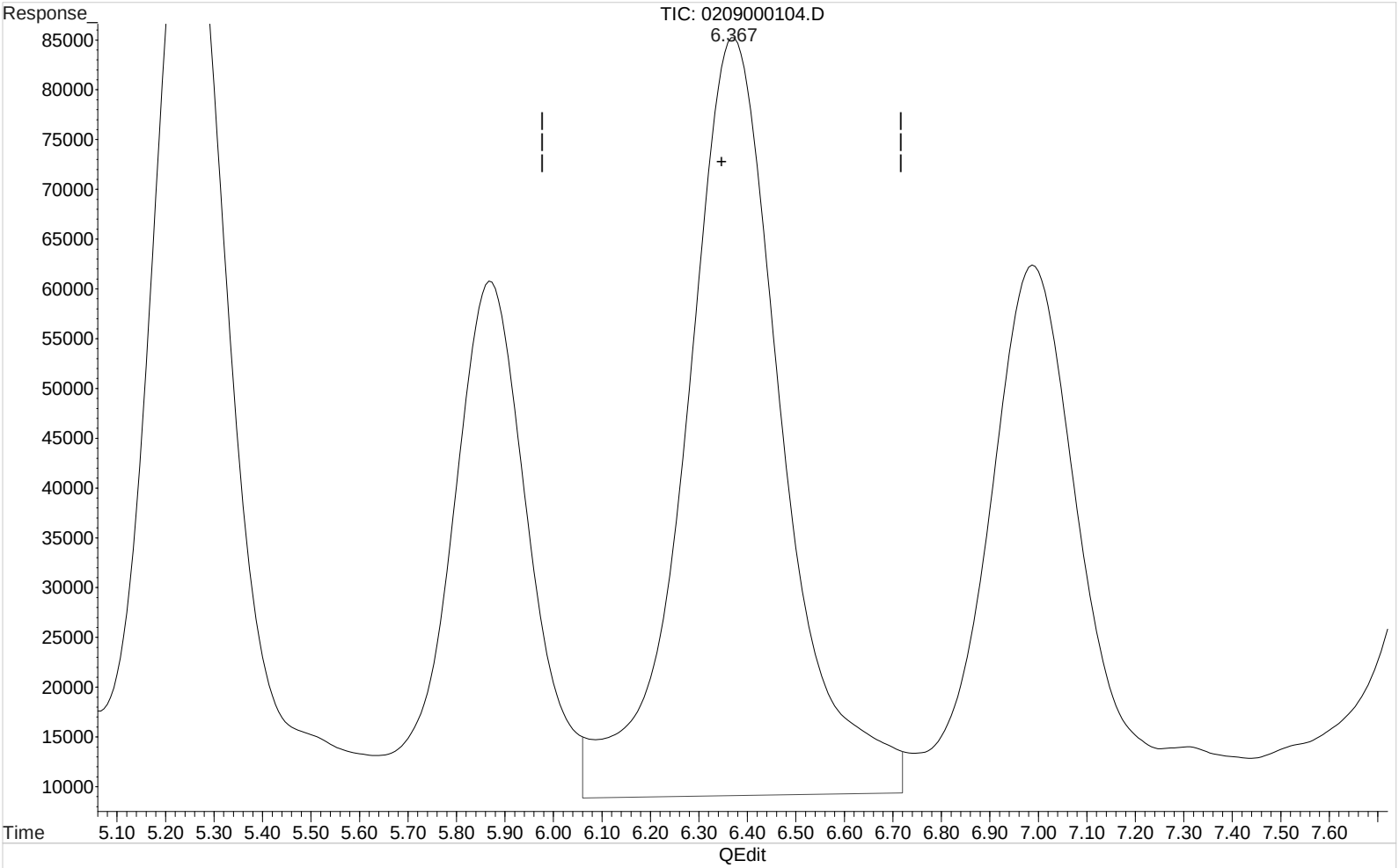
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.367min 25.225 ug/L

response 1057778

Manual Integration:

Before

02/13/17

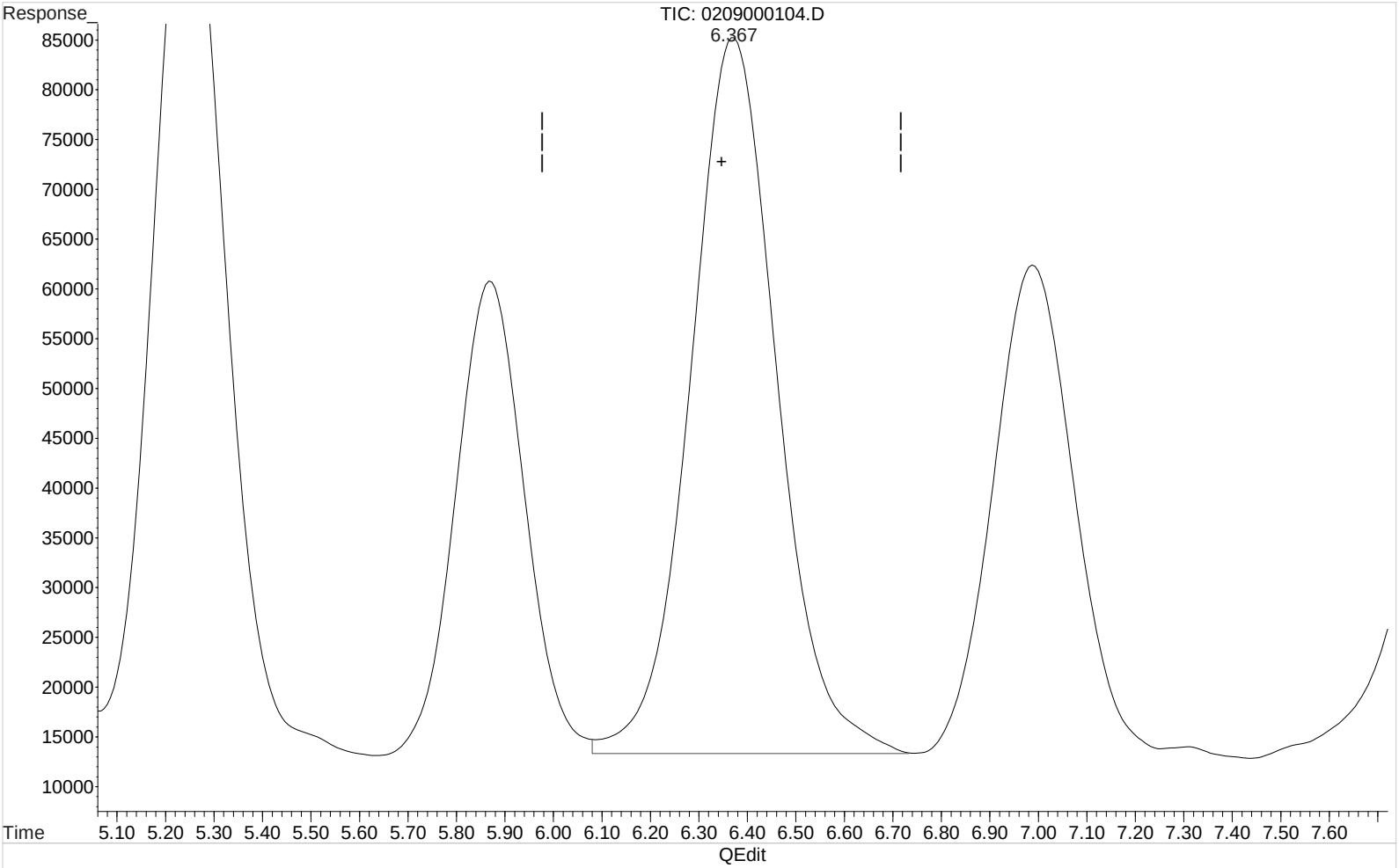
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.367min 21.218 ug/L m

response 889746

Manual Integration:

After

BLC

02/13/17

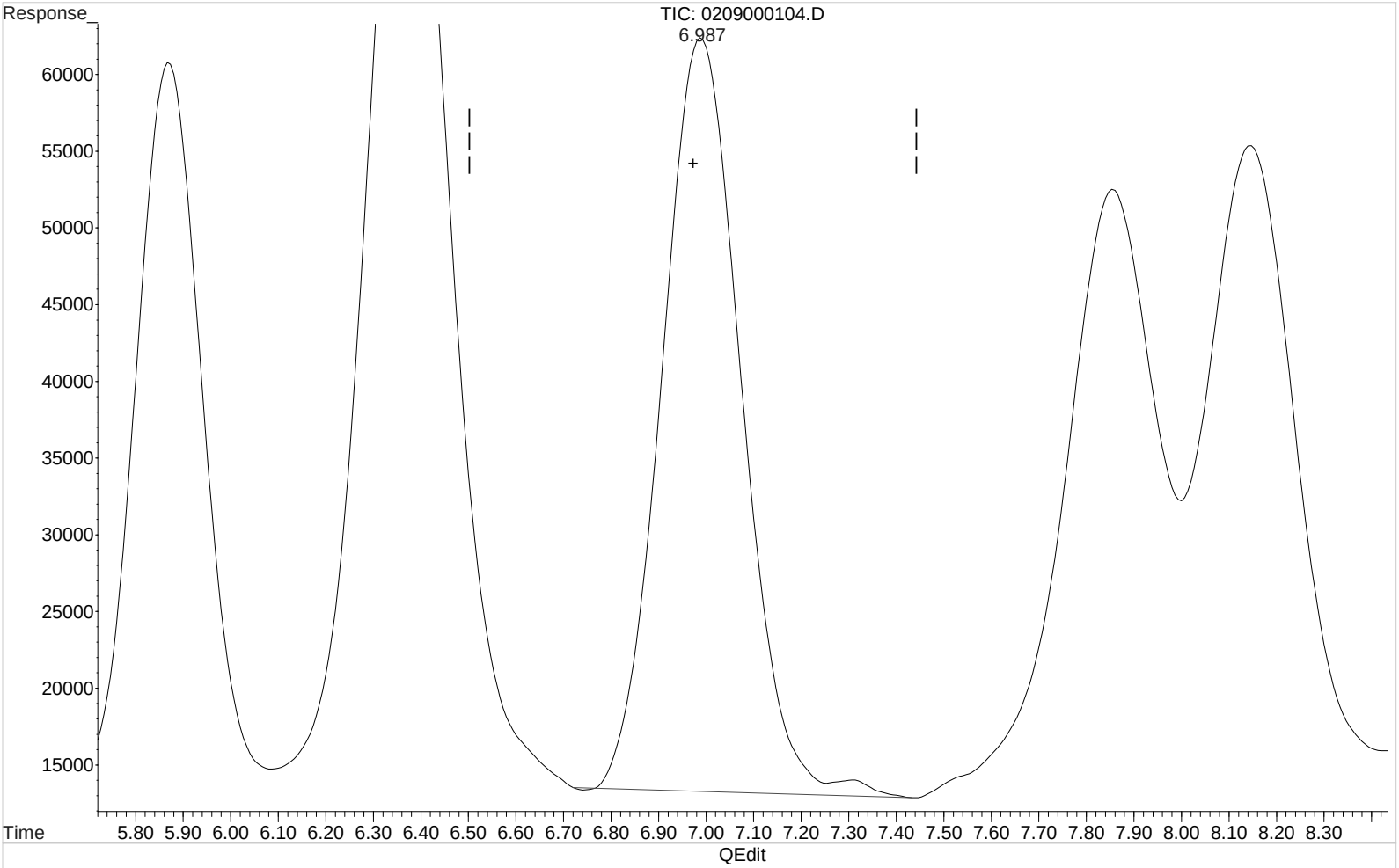
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(8) 3-NT (T)

6.987min 20.561 ug/L

response 573667

Manual Integration:

Before

02/13/17

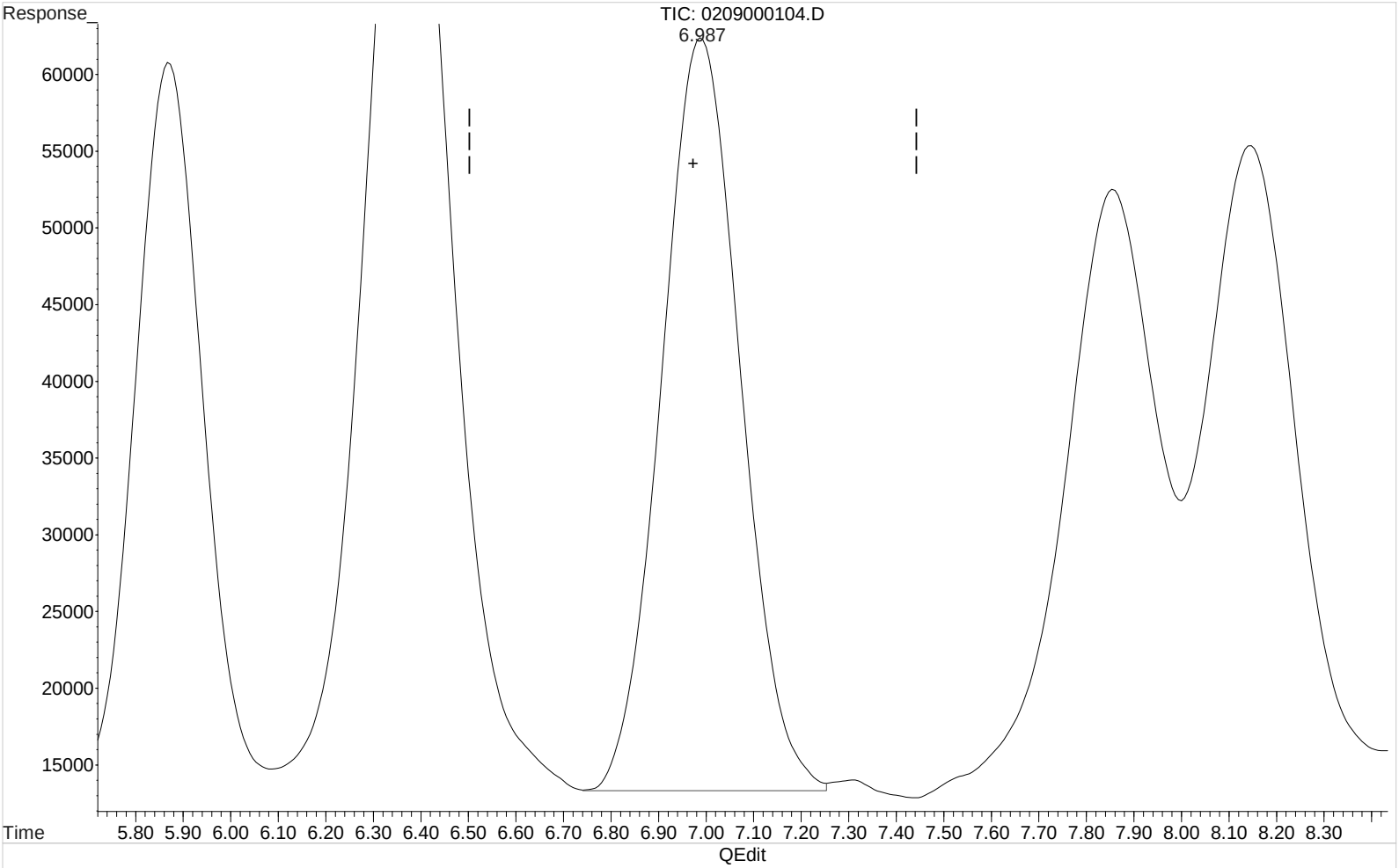
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(8) 3-NT (T)

6.987min 20.307 ug/L m

response 566568

Manual Integration:

After

BLC

02/13/17

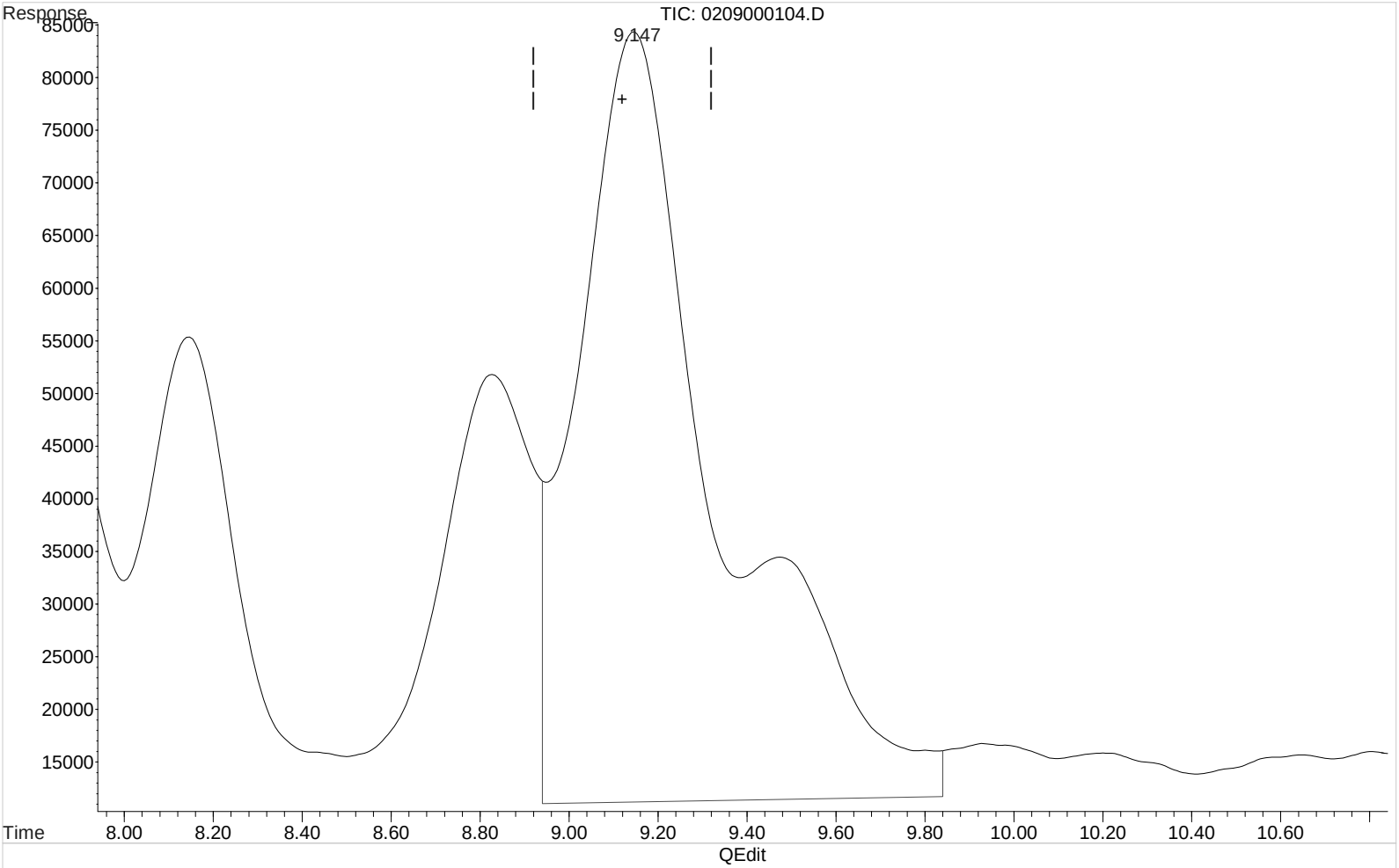
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(9) 1,3-DNB (T)

9.147min 28.638 ug/L

response 1600738

Manual Integration:

Before

02/13/17

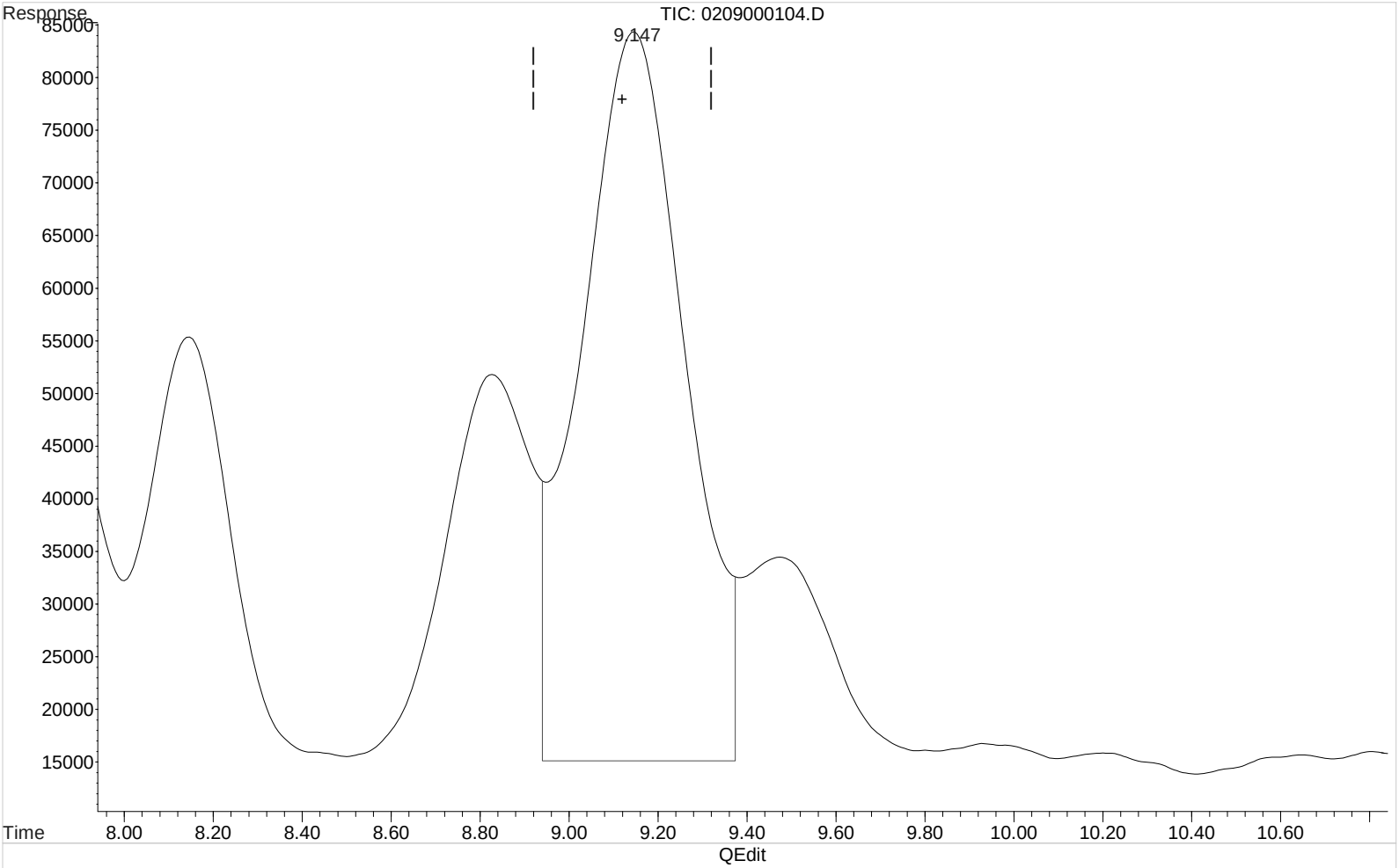
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000104.D Vial: 2
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:00:29 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:13:11 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:12:43 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(9) 1,3-DNB (T)

9.147min 20.188 ug/L m

response 1128441

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:12:28 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
11) S	1-Chloro-3-Nitrobenzene	8.147	1336894	50.757	ug/L	
	Target Compounds					
1) T	HMX	2.560	778040	49.560	ug/L	m
2) T	RDX	2.807	976620	54.310	ug/L	m
3) T	Nitrobenzene	4.493	1930068	52.121	ug/L	m
4) T	3,5-Dinitroaniline	5.253	2326297	50.288	ug/L	m
5) T	4-Amino-2,6-DNT	4.880	1640782	51.865	ug/L	m
6) T	2-NT	5.873	1175129	49.902	ug/L	m
7) T	2-Amino-4,6-DNT	6.373	2151466	51.475	ug/L	
8) T	3-NT	6.993	1417335	50.902	ug/L	
9) T	1,3-DNB	9.147	2937294	52.887	ug/L	
10) T	4-NT	7.853	1198086	52.690	ug/L	m
12) T	2,6-DNT	8.833	1216672	49.709	ug/L	
13) T	2,4-DNT	14.827	2785081	54.635	ug/L	
14) T	Tetryl	13.013	1450932	49.712	ug/L	m
15) T	1,3,5-TNB	19.827	2198383	53.482	ug/L	m
16) T	2,4,6-TNT	20.813	1897768	49.120	ug/L	m

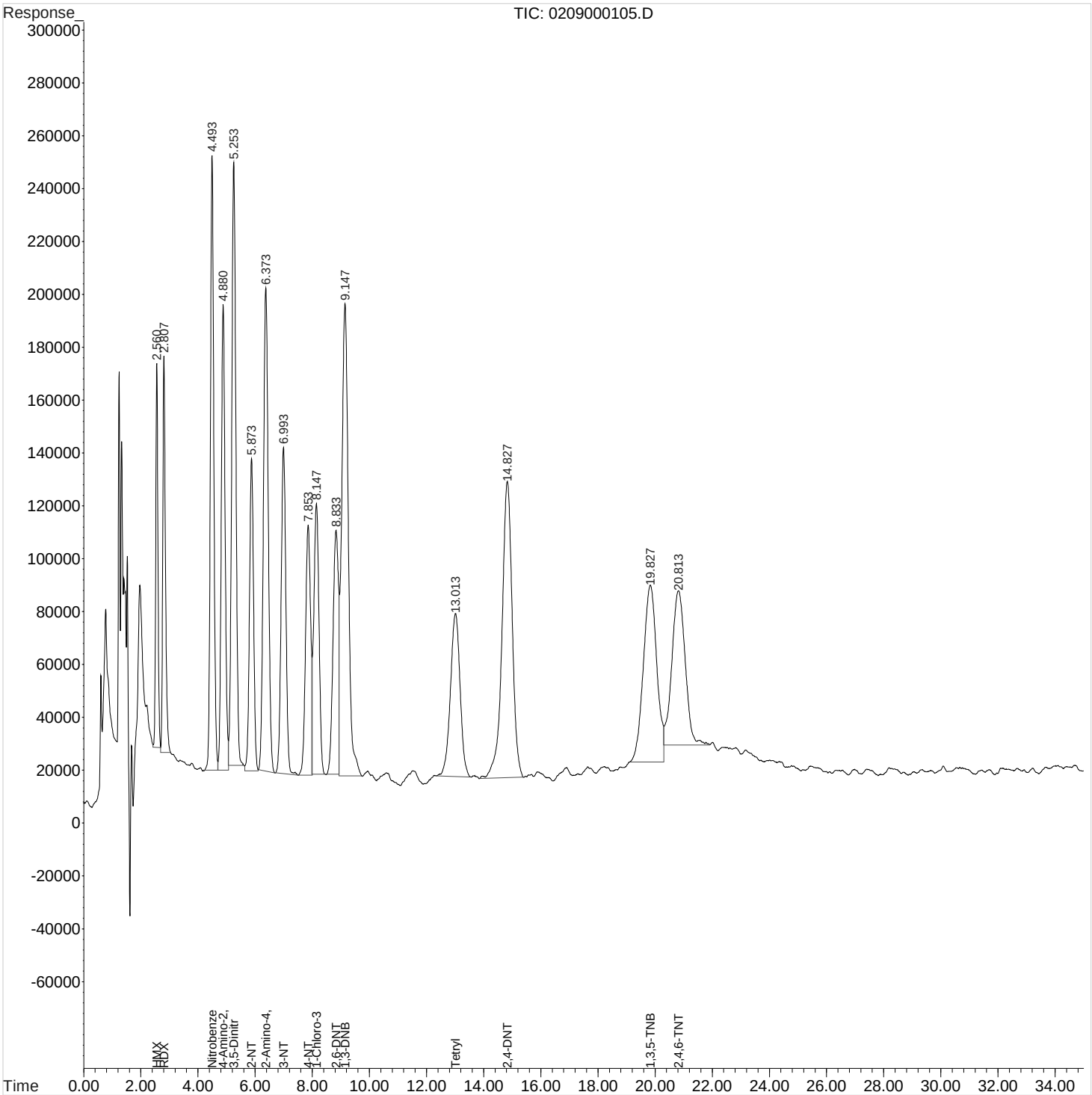
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:12:28 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



Quantitation Report (Qedit)

(b) (6)

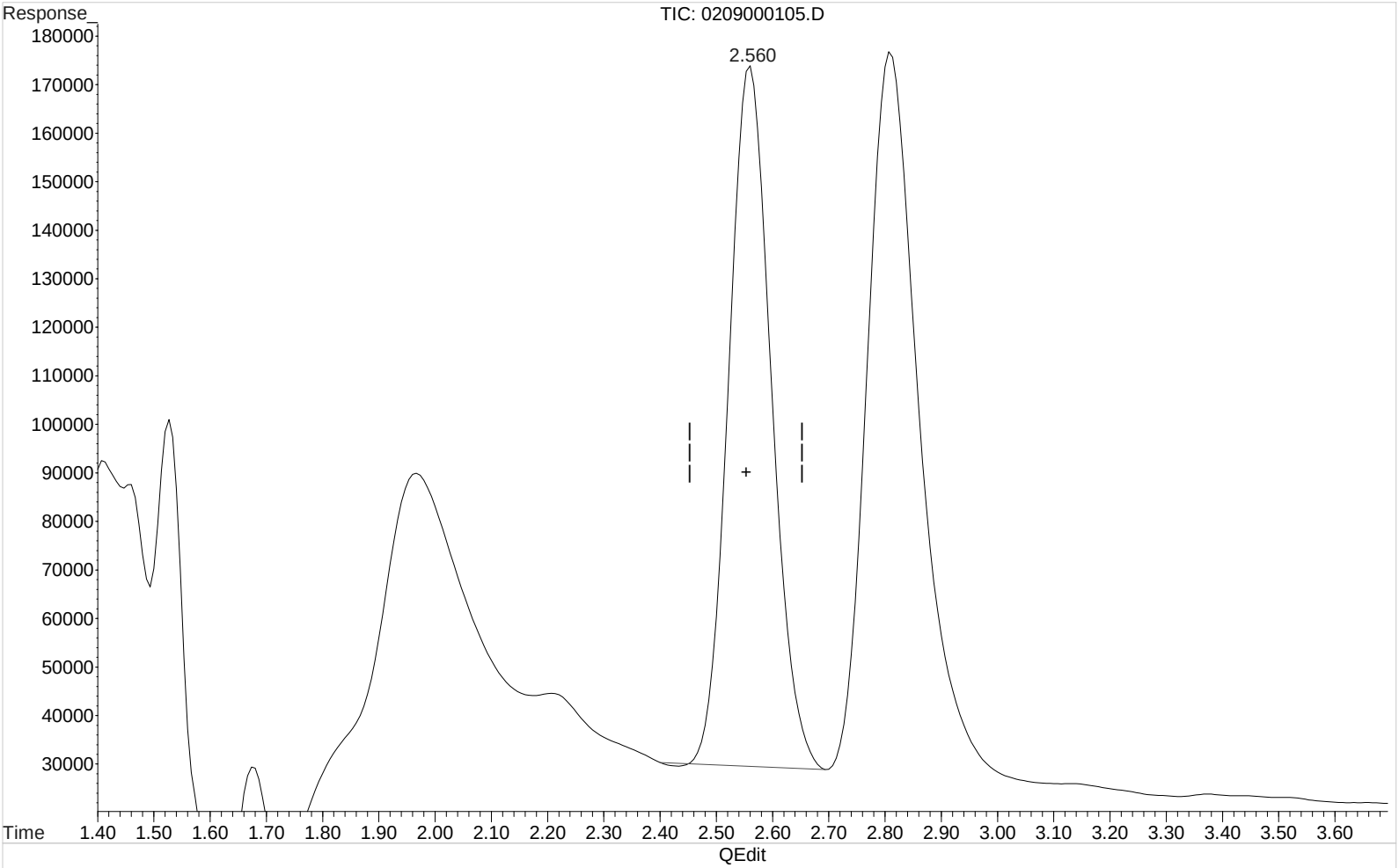
1 /13/17

2 /17/17

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.560min 48.616 ug/L

response 763221

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

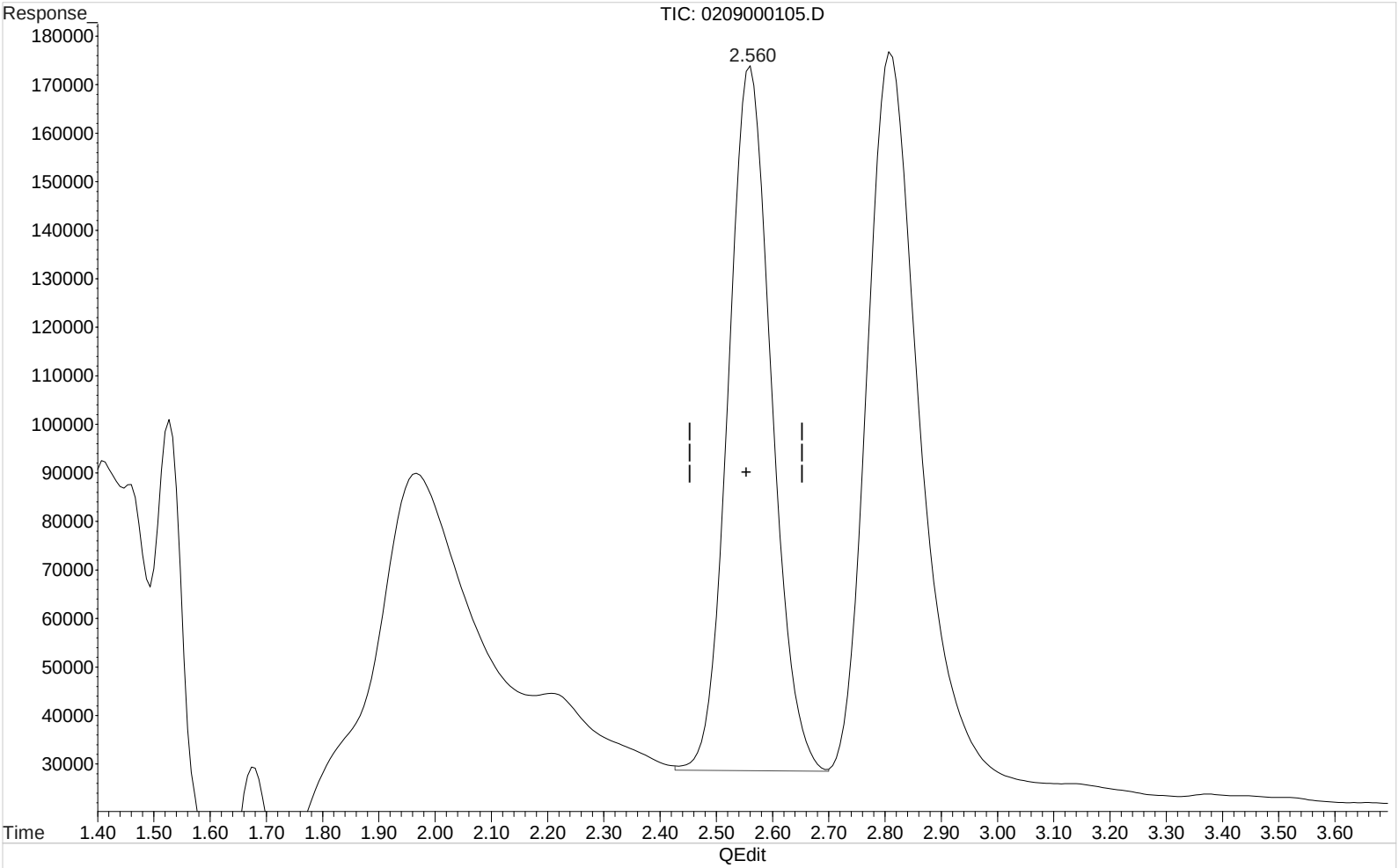
1st 02/13/17

2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.560min 49.560 ug/L m

response 778040

Manual Integration:

After

BLC

02/13/17

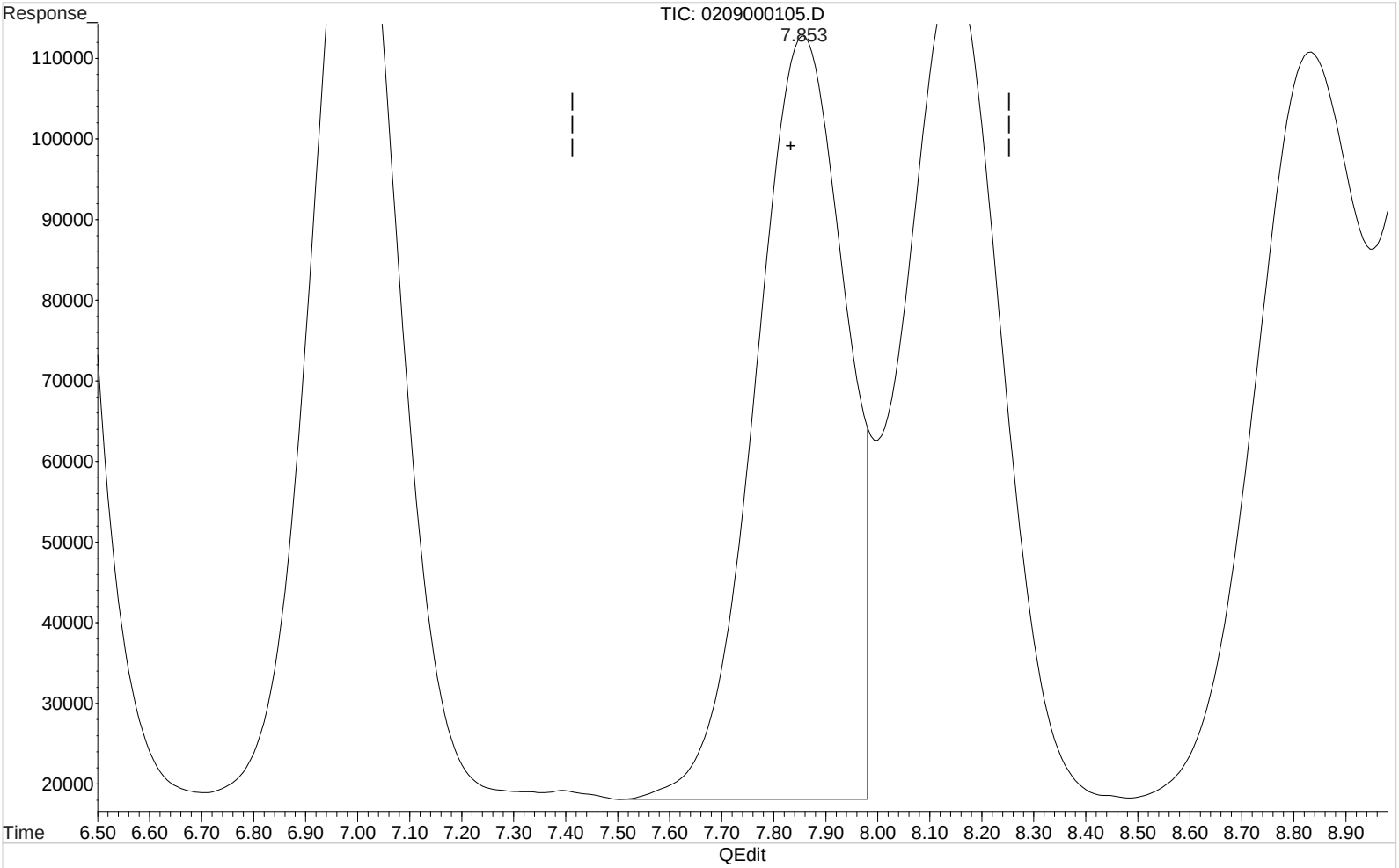
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.853min 50.394 ug/L

response 1145870

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

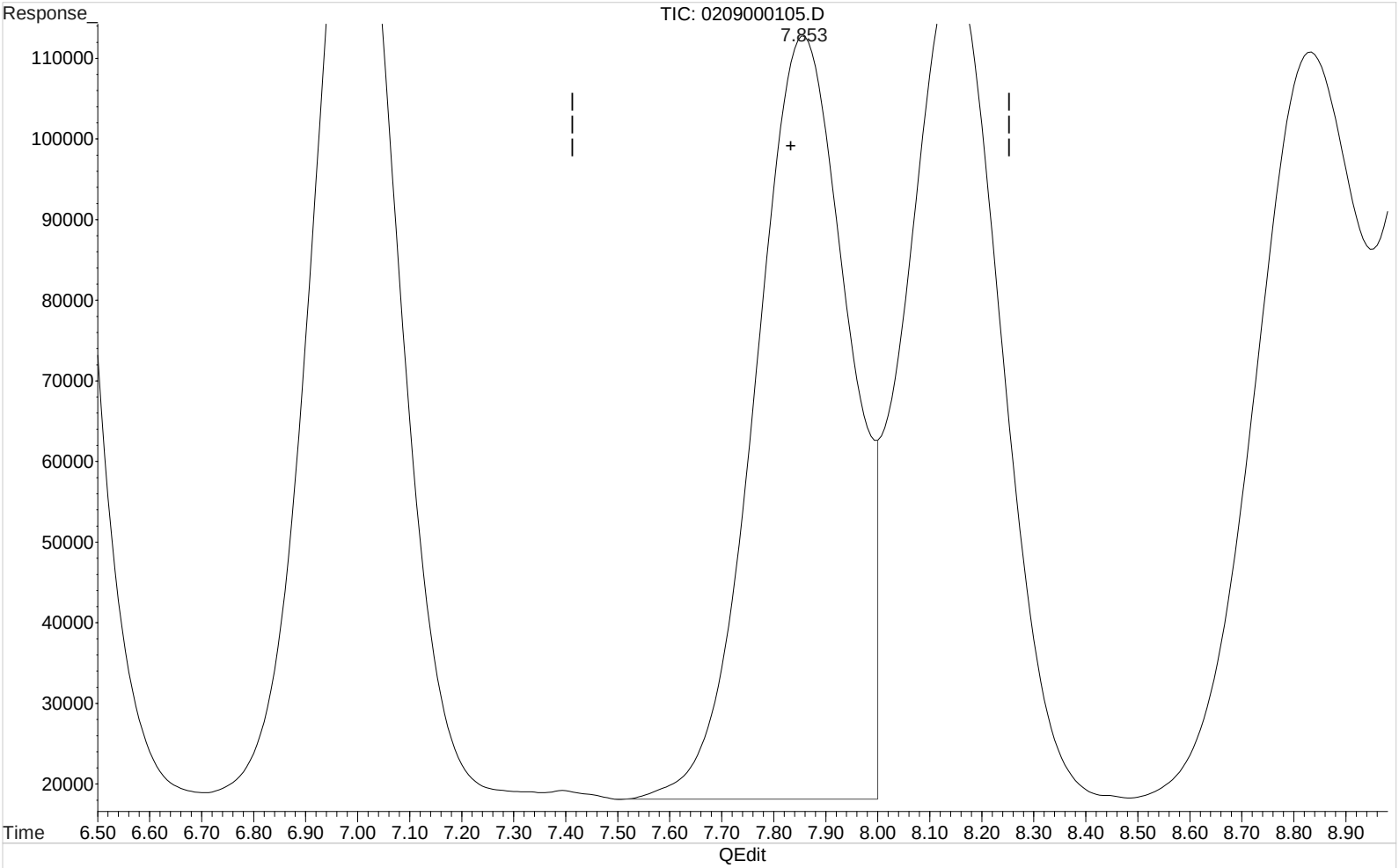
Quantitation Report (Qedit)

(b) (6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.853min 52.690 ug/L m

response 1198086

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

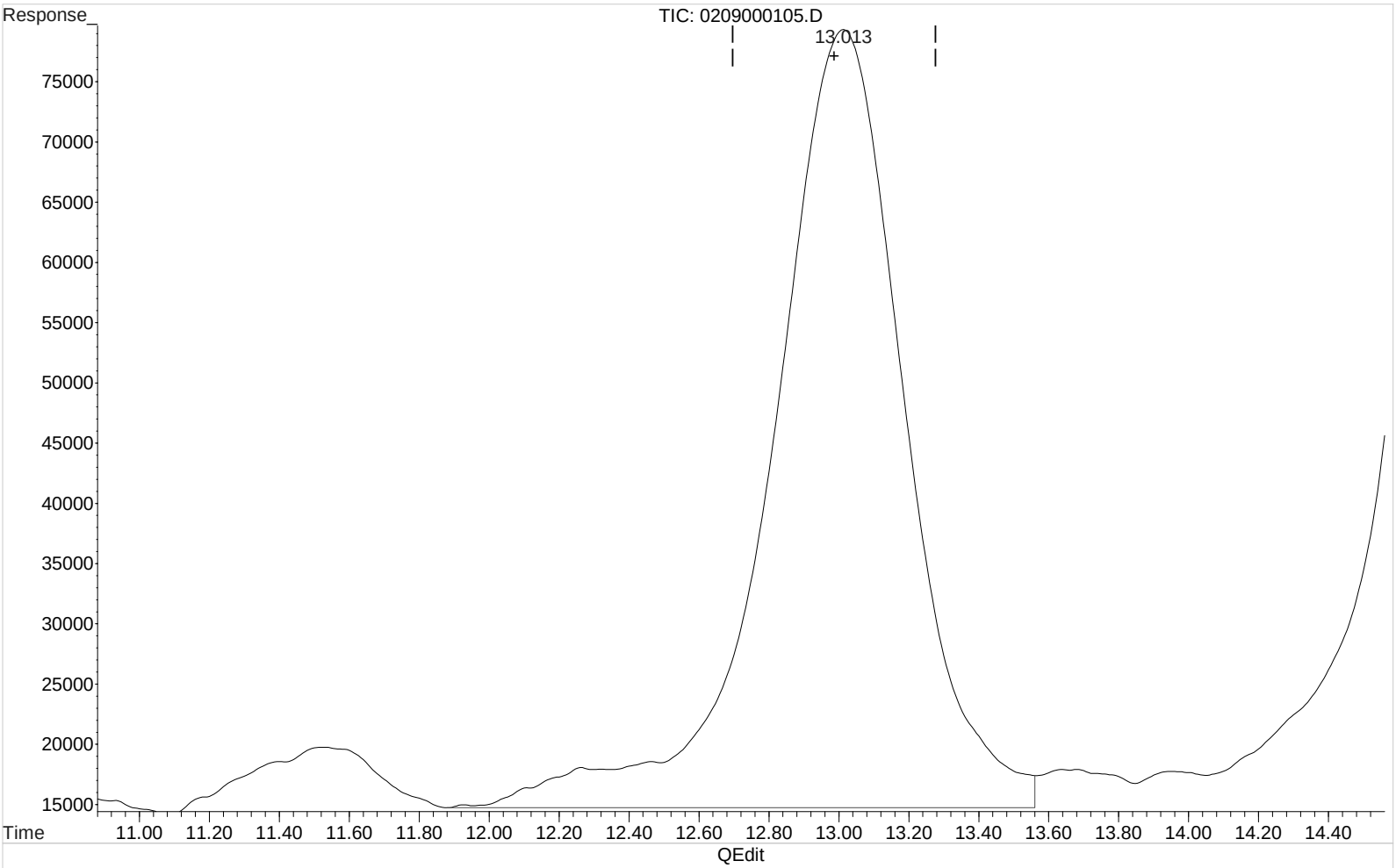
Quantitation Report (Qedit)

(b) (6)
1st 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(14) Tetryl (T)

13.013min 58.523 ug/L

response 1708087

Manual Integration:

Before

02/13/17

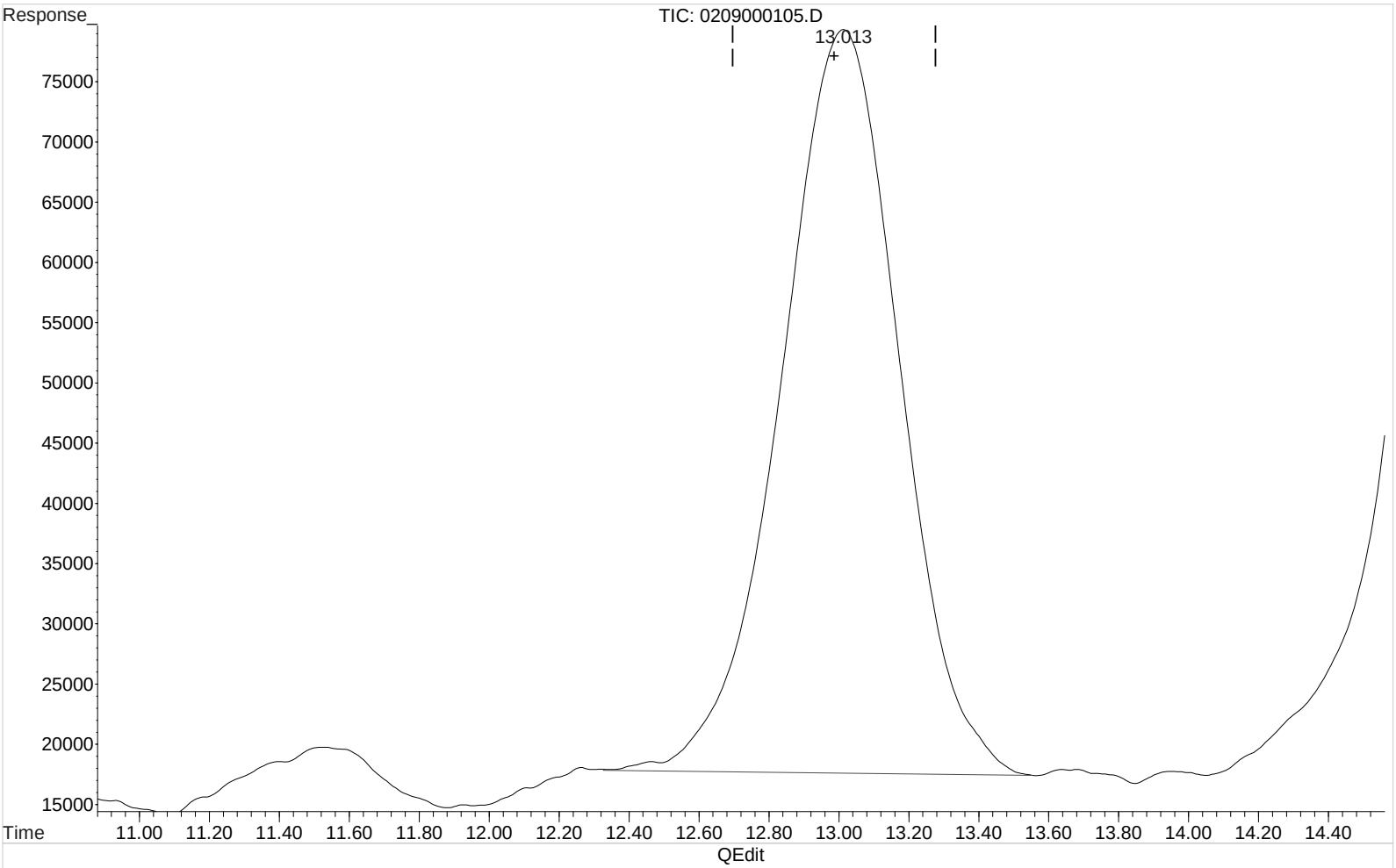
(+) = Expected Retention Time

(b) (6)
1st /13/17
2nd /17/17

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(14) Tetryl (T)

13.013min 49.712 ug/L m

response 1450932

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b) (6)

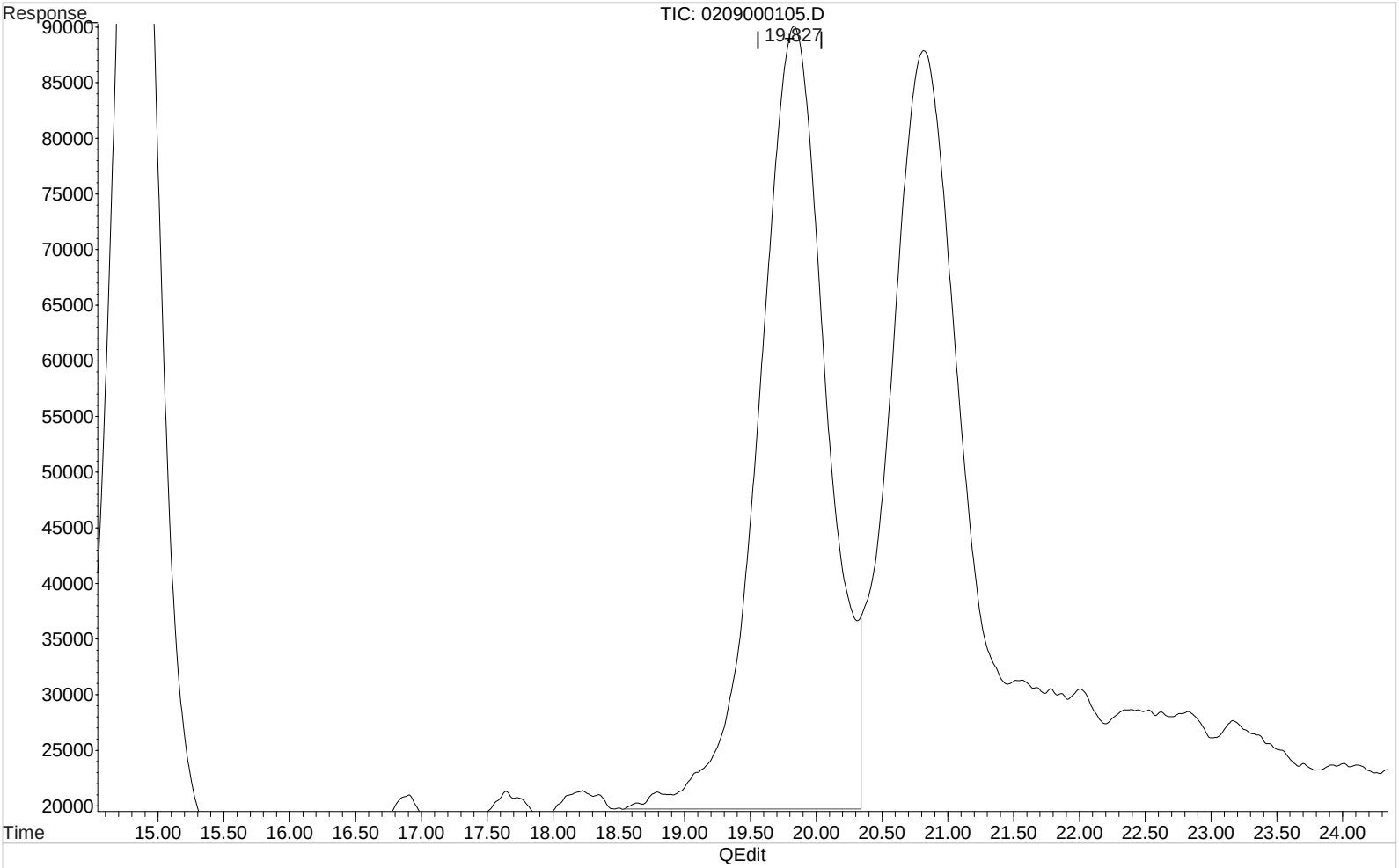
1 02/13/17

2 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(15) 1,3,5-TNB (T)

19.827min 61.425 ug/L

response 2524868

Manual Integration:

Before

02/13/17

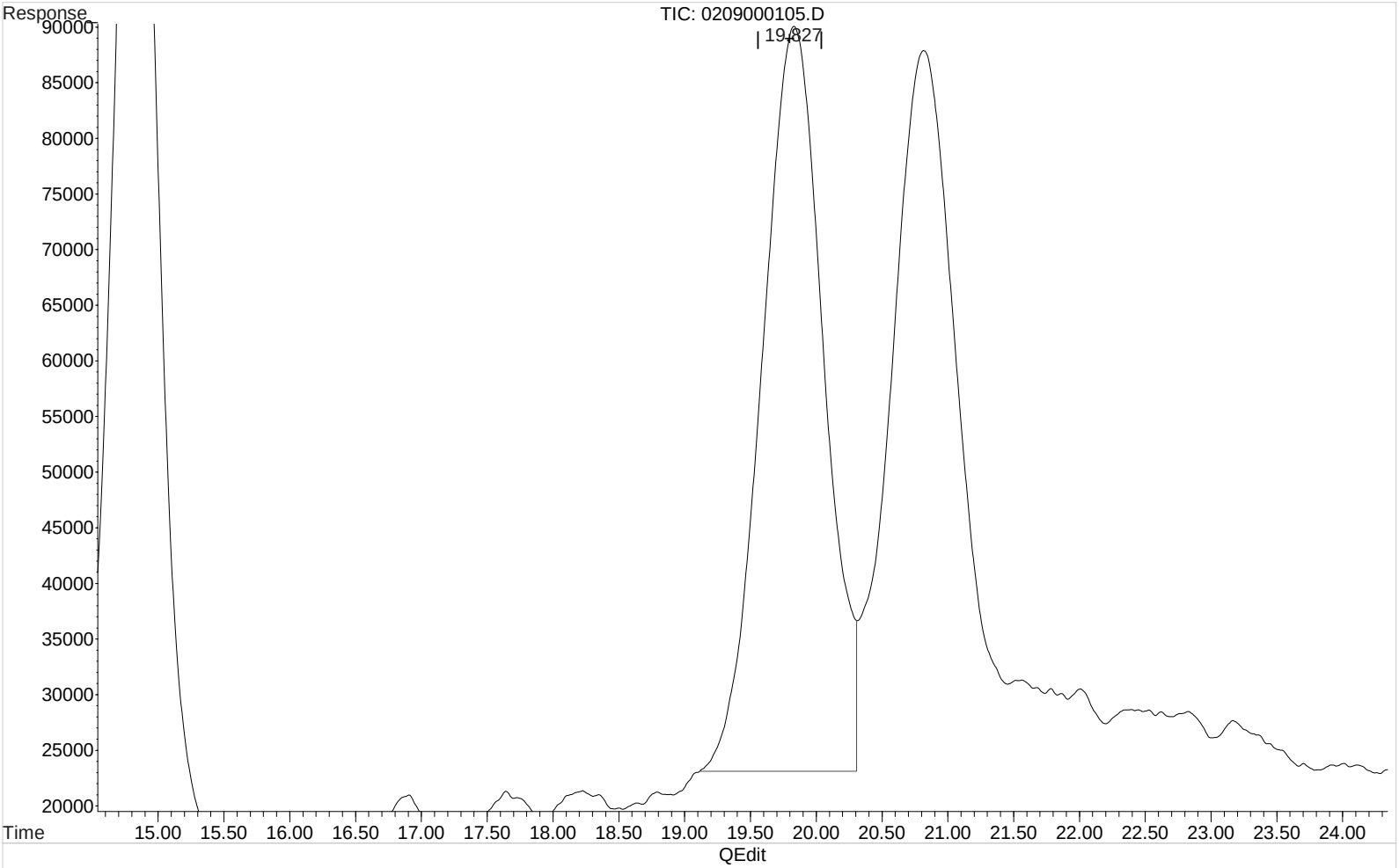
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(15) 1,3,5-TNB (T)

19.827min 53.482 ug/L m

response 2198383

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

020917_Short_8330@254.M Mon Feb 13 11:12:15 2017 Page: 1

Quantitation Report (Qedit)

(b)(6)

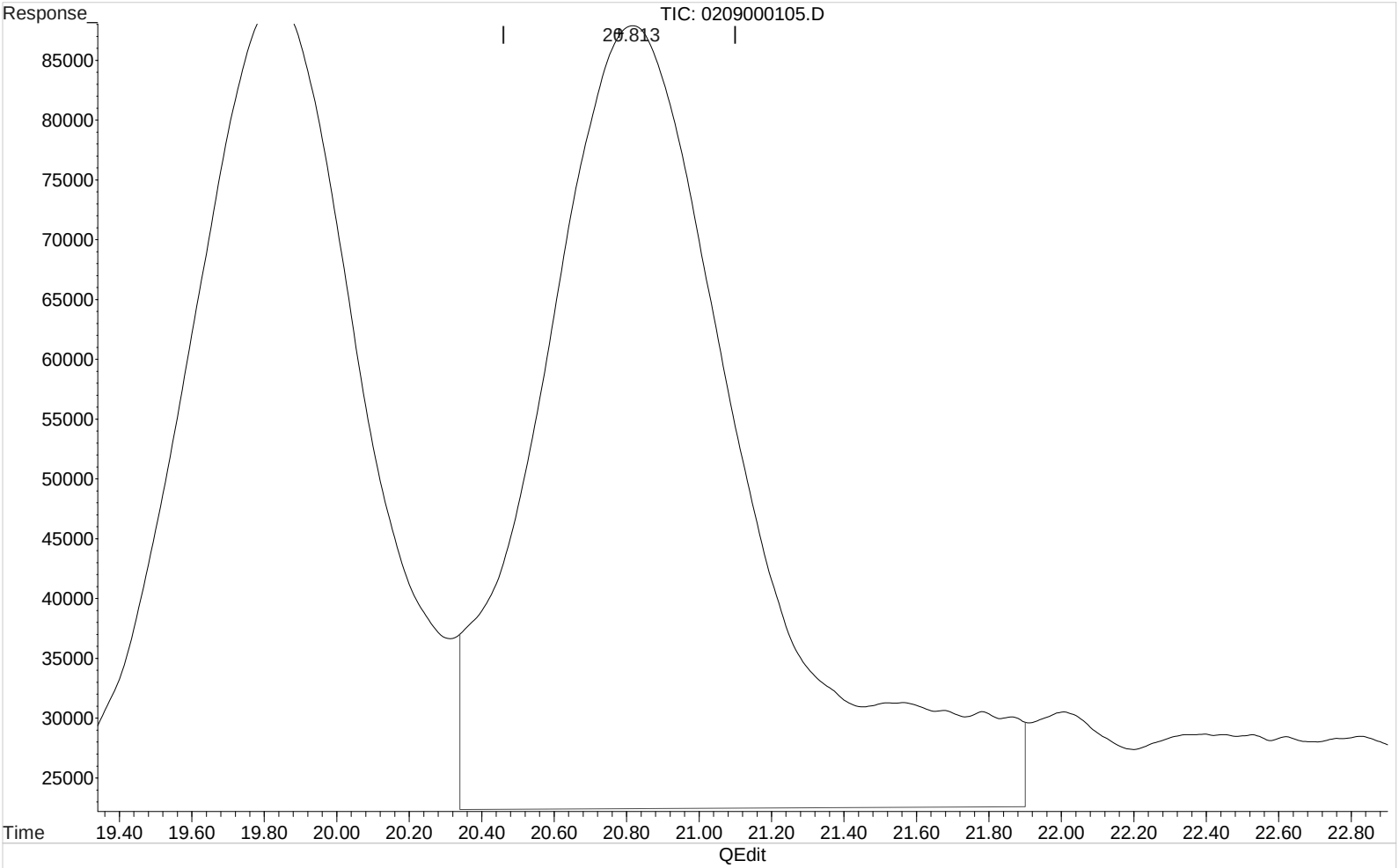
1st 02/13/17

2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(16) 2,4,6-TNT (T)

20.813min 65.772 ug/L

response 2541132

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

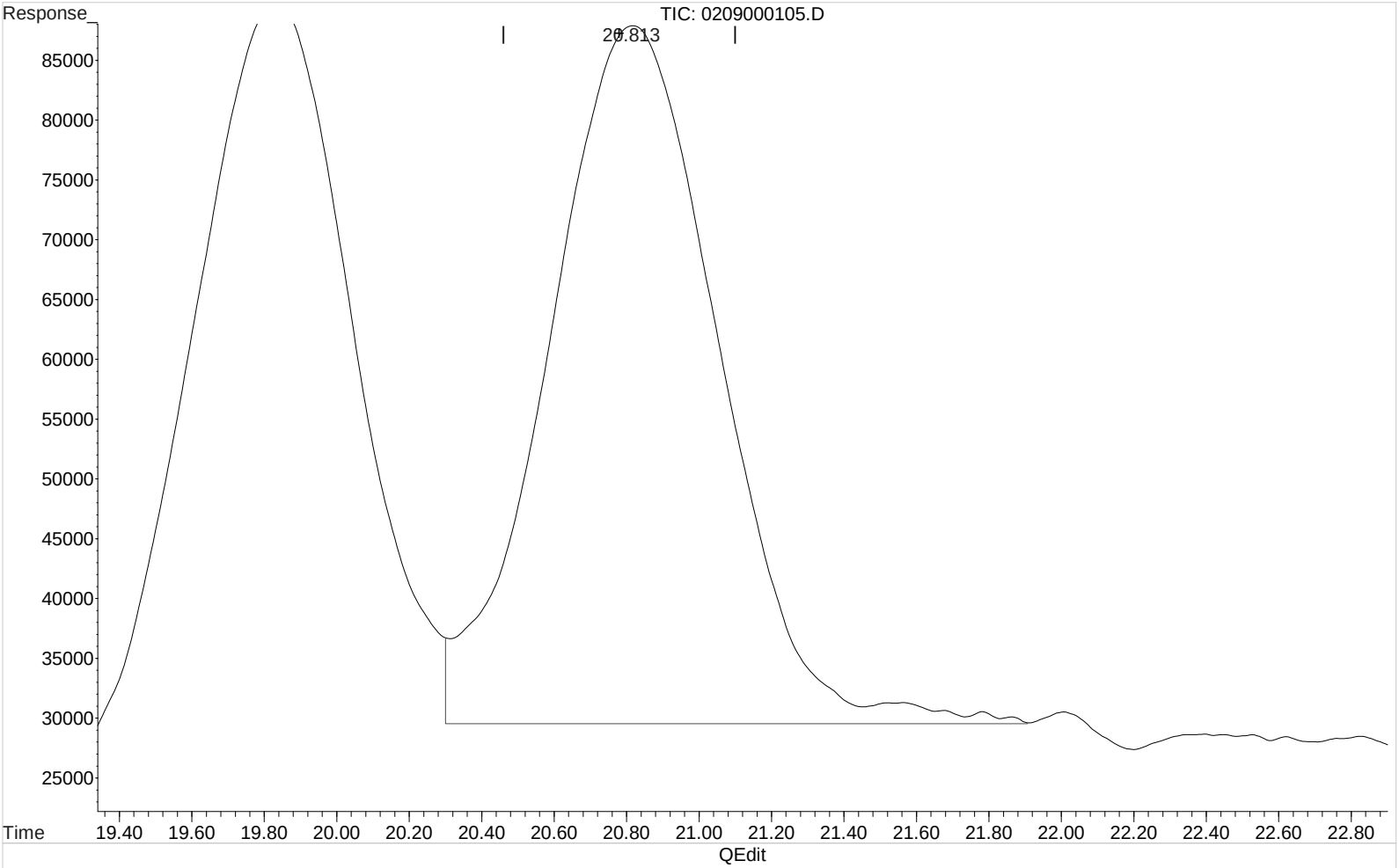
Quantitation Report (Qedit)

(b) (6)
1st /13/17
2nd /17/17

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(16) 2,4,6-TNT (T)

20.813min 49.120 ug/L m

response 1897768

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

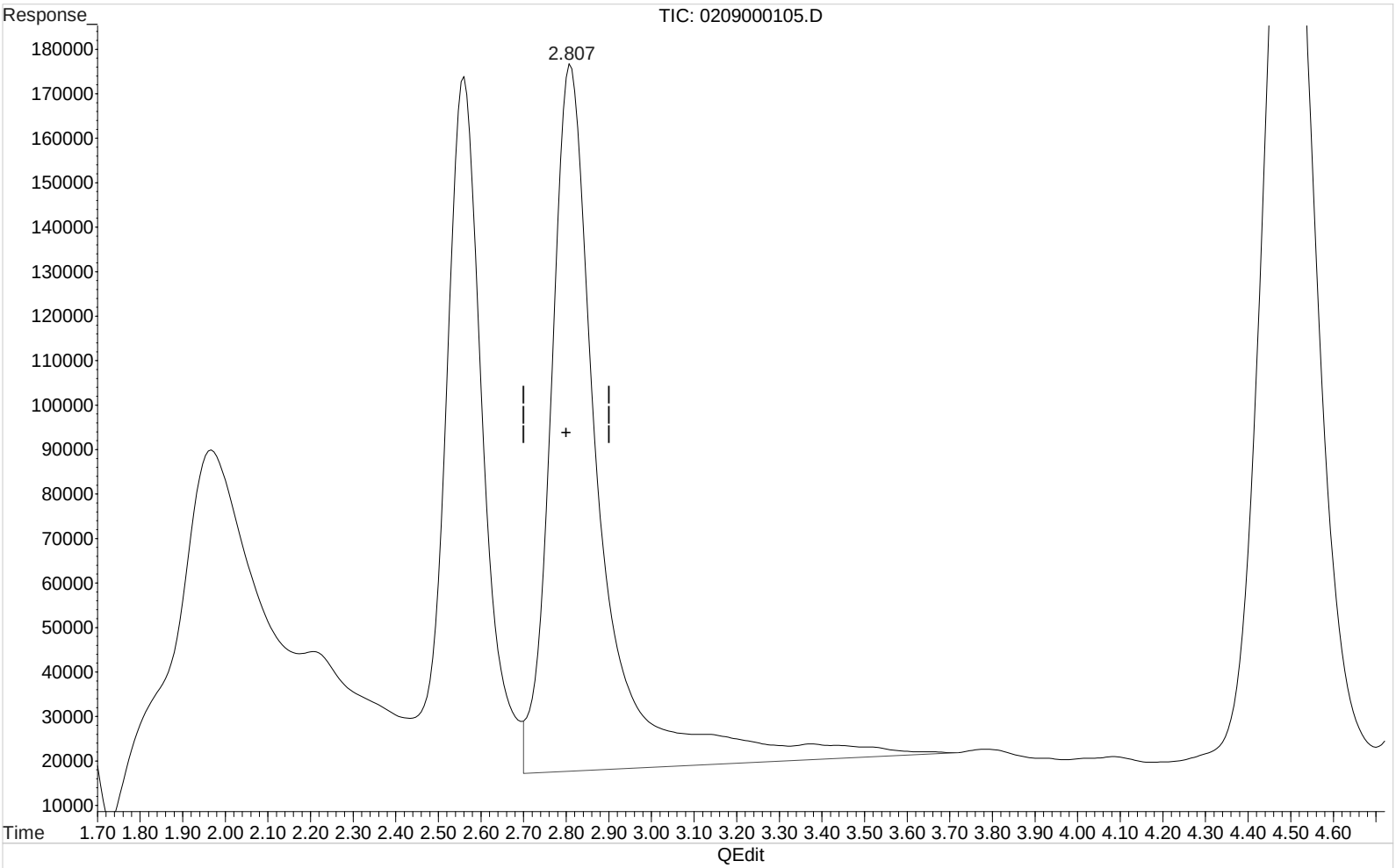
Quantitation Report (Qedit)

(b) (6)
1st [redacted] 02/13/17
2nd [redacted] 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.807min 71.943 ug/L

response 1293711

Manual Integration:

Before

02/13/17

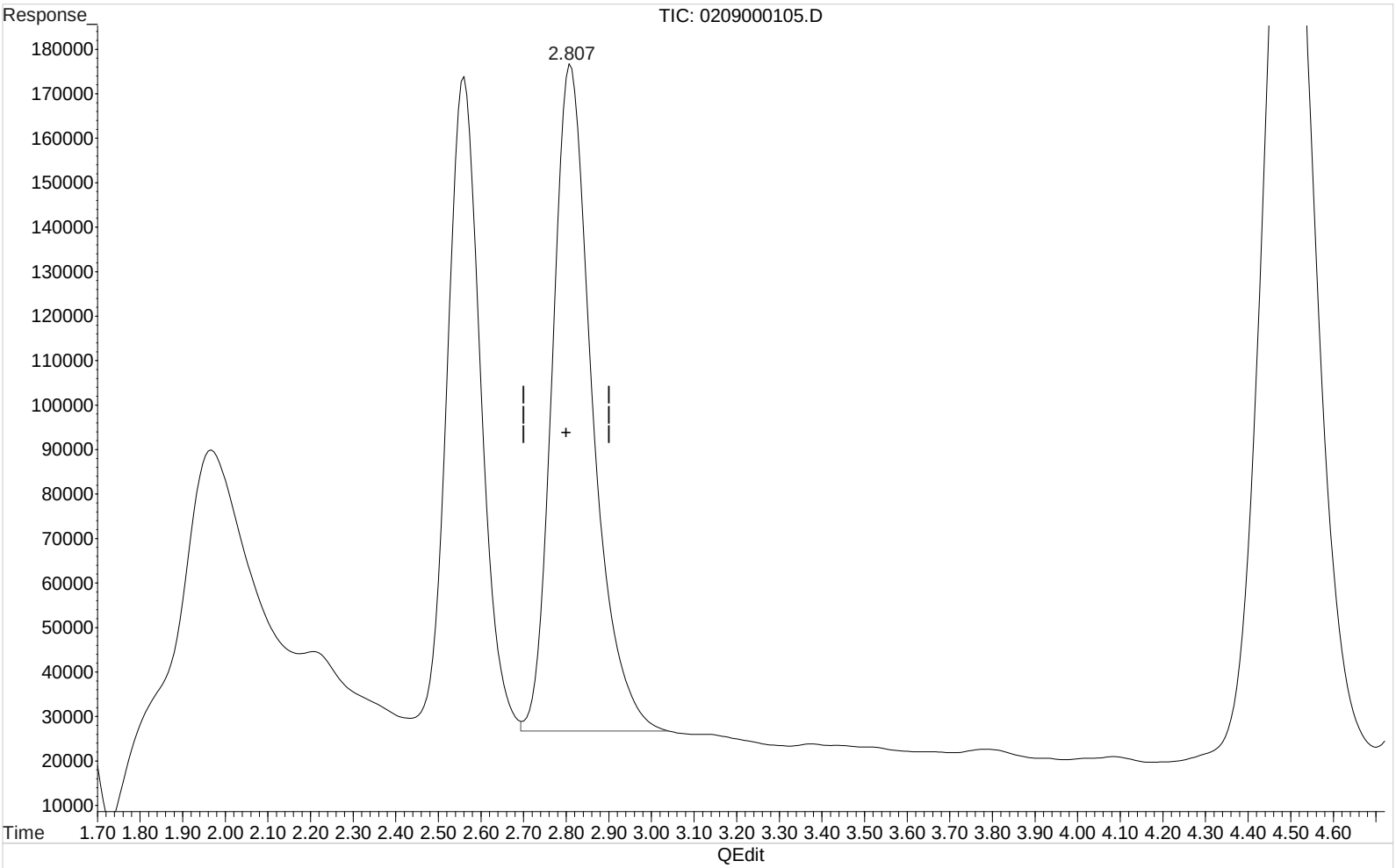
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.807min 54.310 ug/L m

response 976620

Manual Integration:

After

BLC

02/13/17

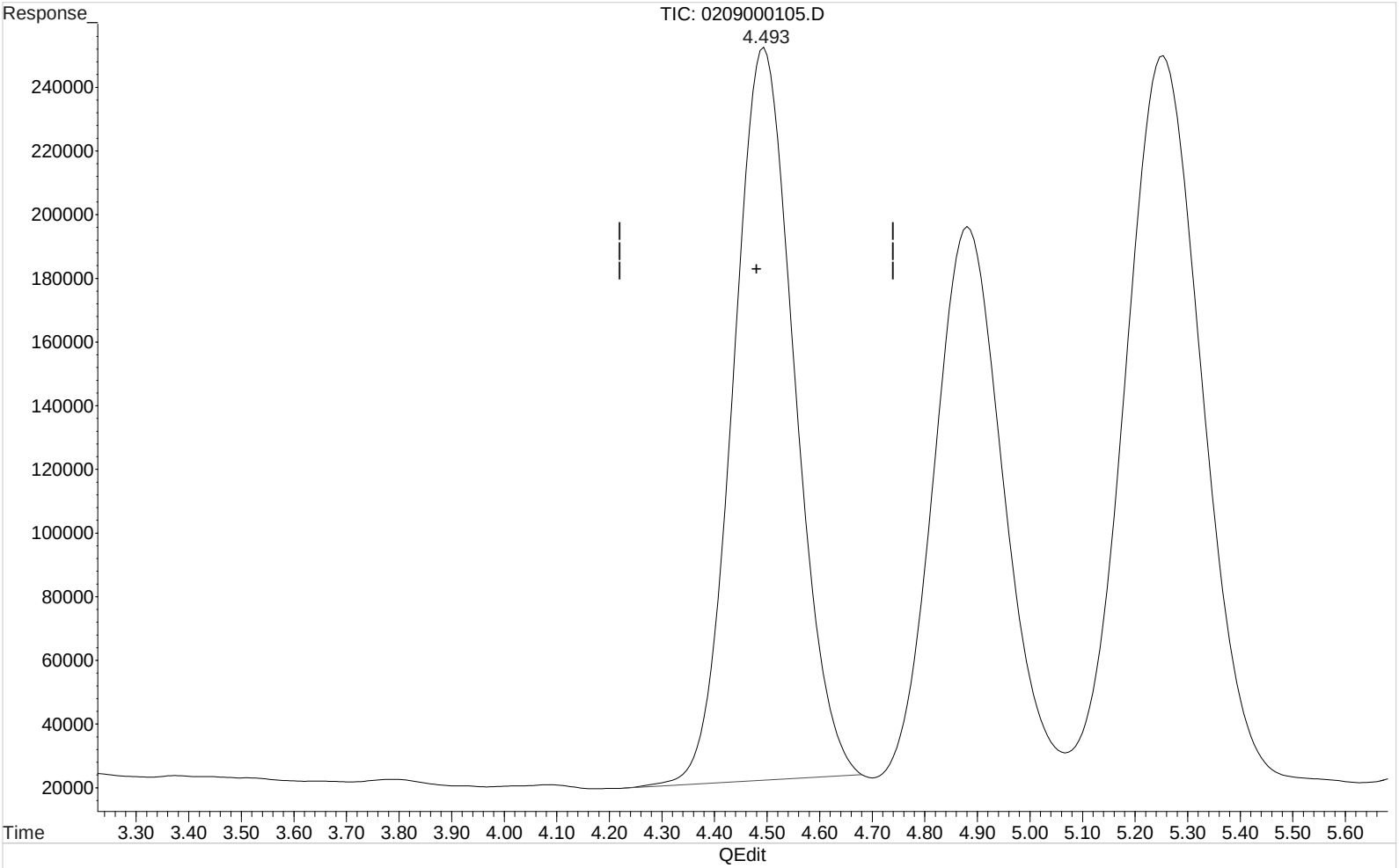
(+) = Expected Retention Time

(b) (6)
1st 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.493min 50.613 ug/L

response 1874219

Manual Integration:

Before

02/13/17

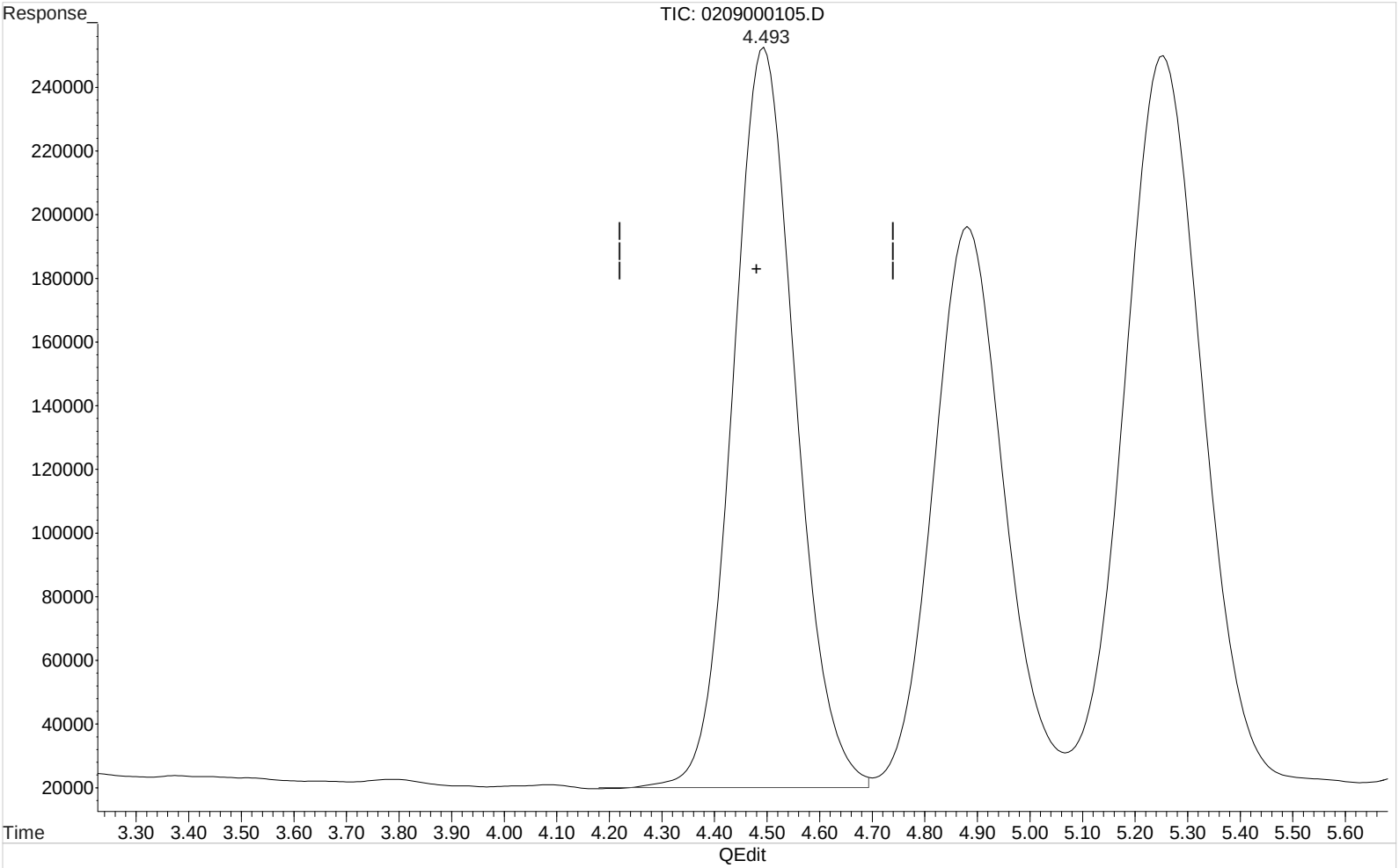
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.493min 52.121 ug/L m

response 1930068

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

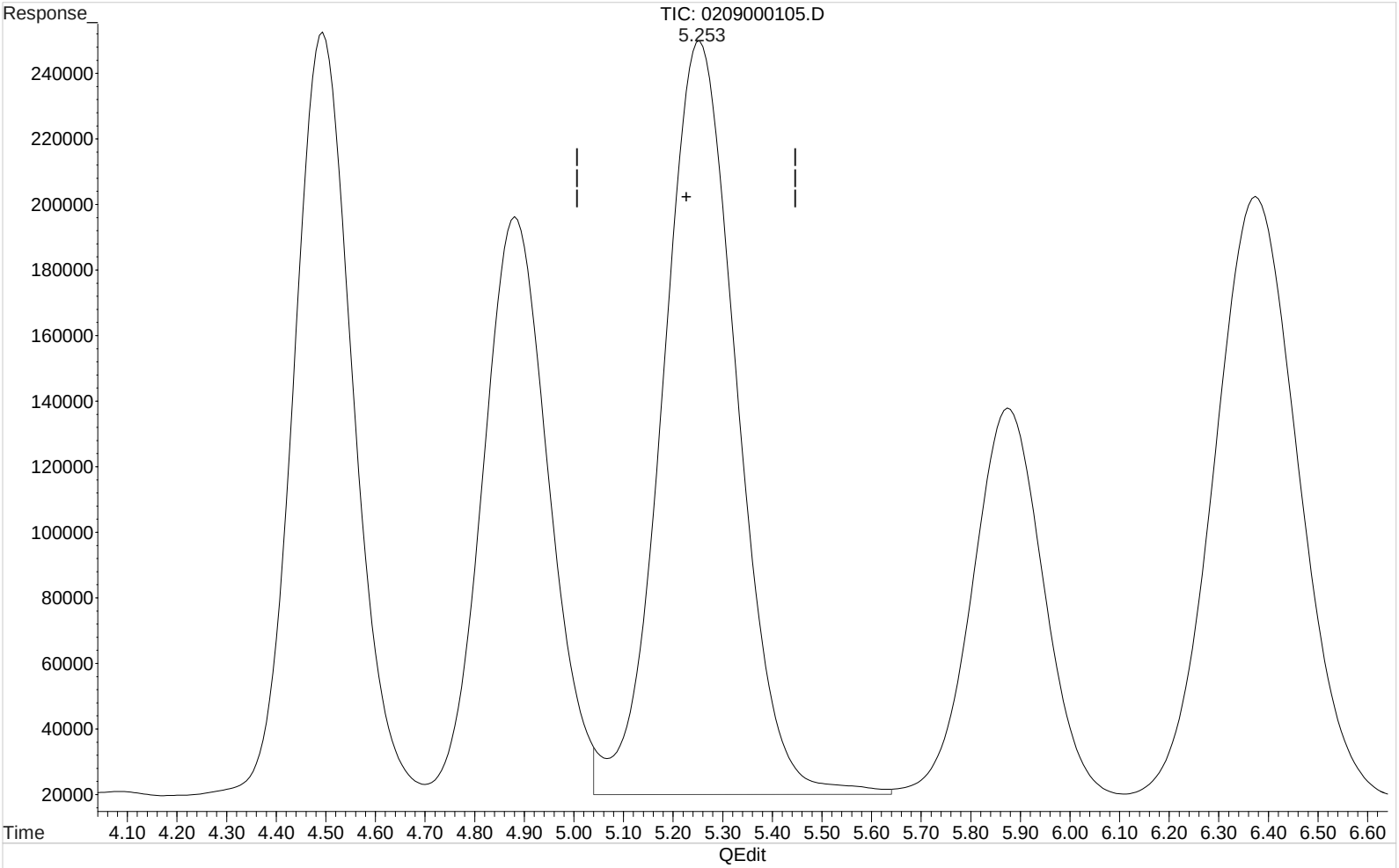
Quantitation Report (Qedit)

(b) (6)
1st 2/13/17
2n 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(4) 3,5-Dinitroaniline (T)

5.253min 51.967 ug/L

response 2403967

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

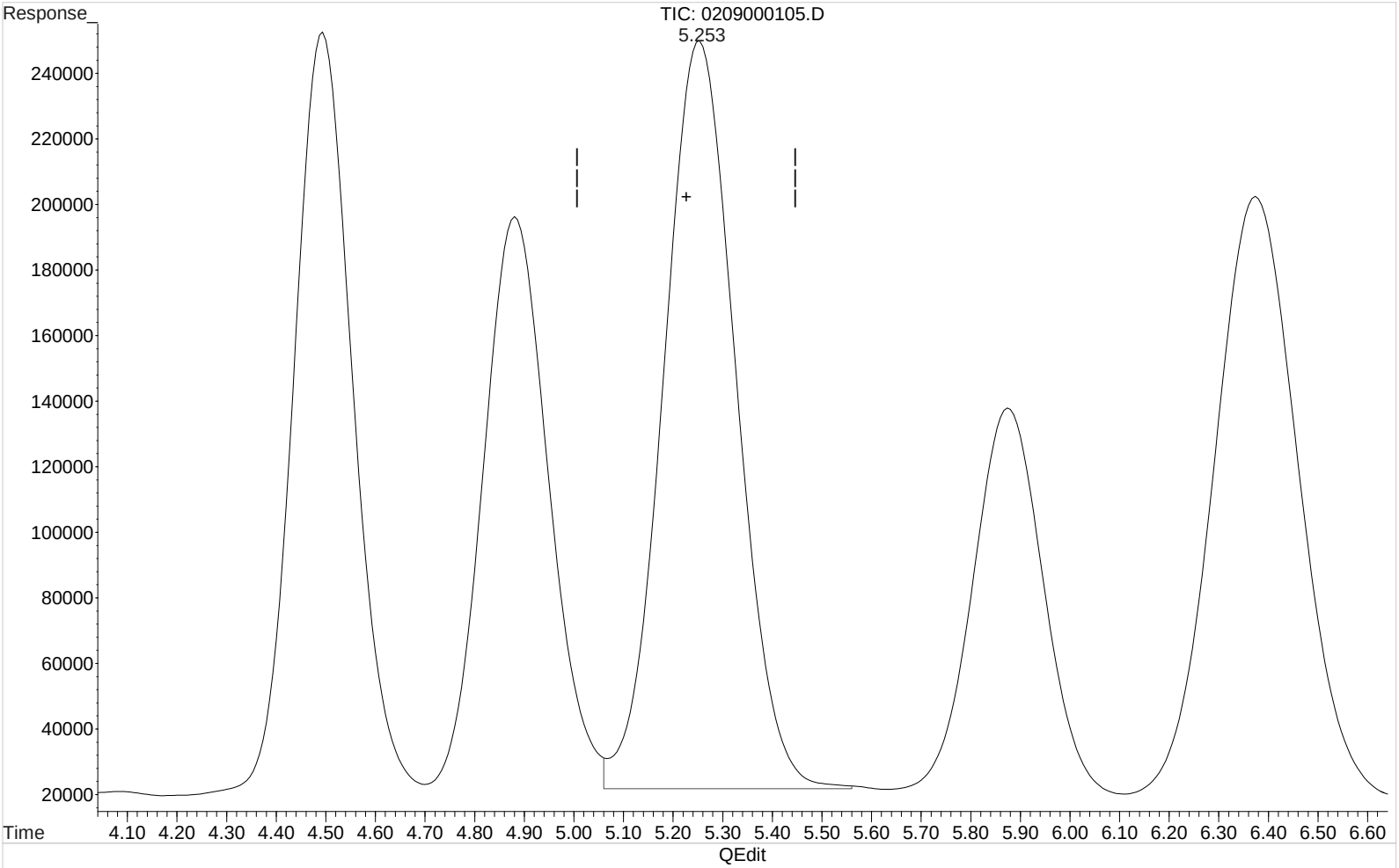
Quantitation Report (Qedit)

(b) (6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(4) 3,5-Dinitroaniline (T)

5.253min 50.288 ug/L m

response 2326297

Manual Integration:

After

BLC

02/13/17

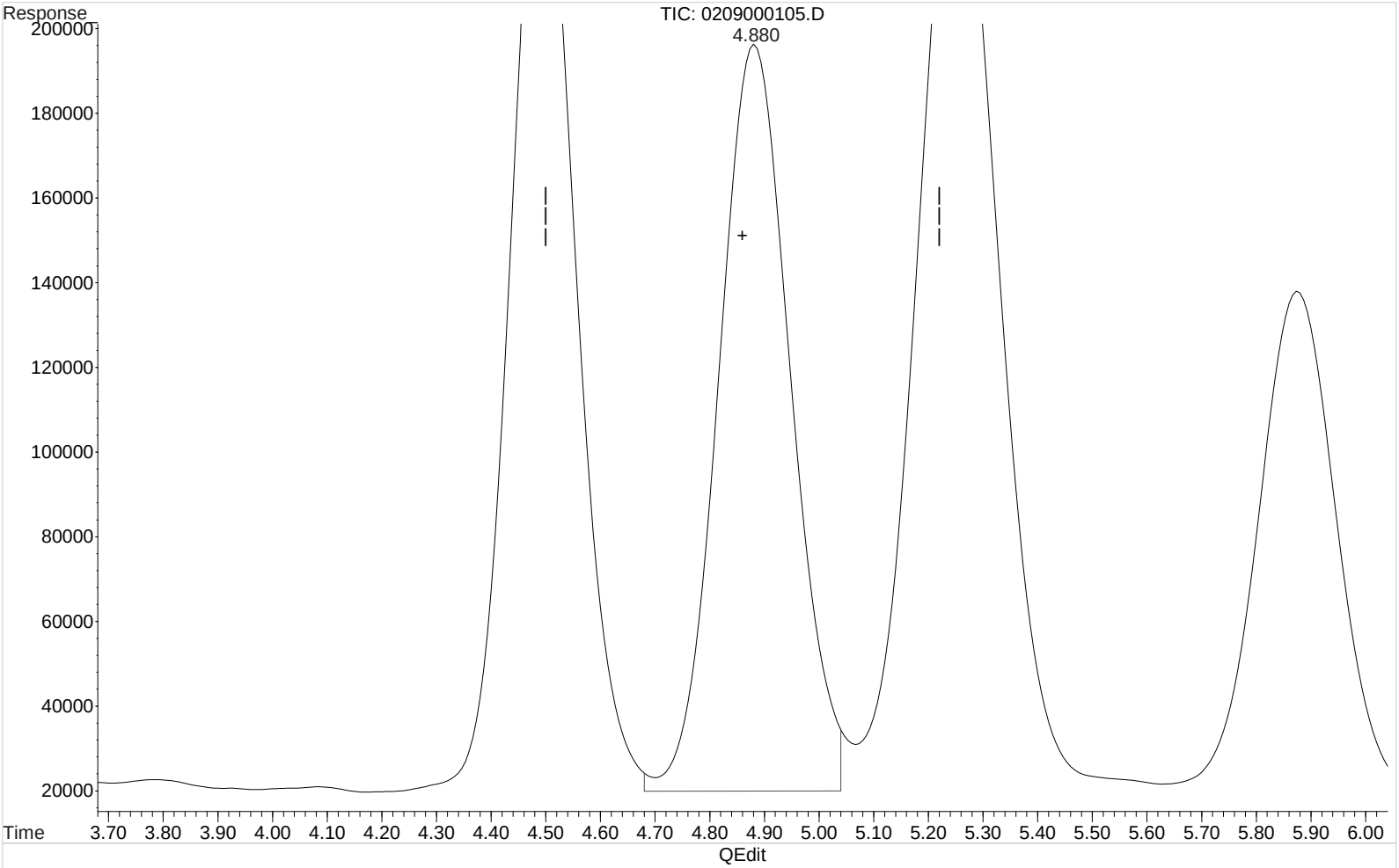
(+) = Expected Retention Time

1st (b) (6) /13/17
2nd /17/17

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(5) 4-Amino-2,6-DNT (T)

4.880min 51.450 ug/L

response 1627659

Manual Integration:

Before

02/13/17

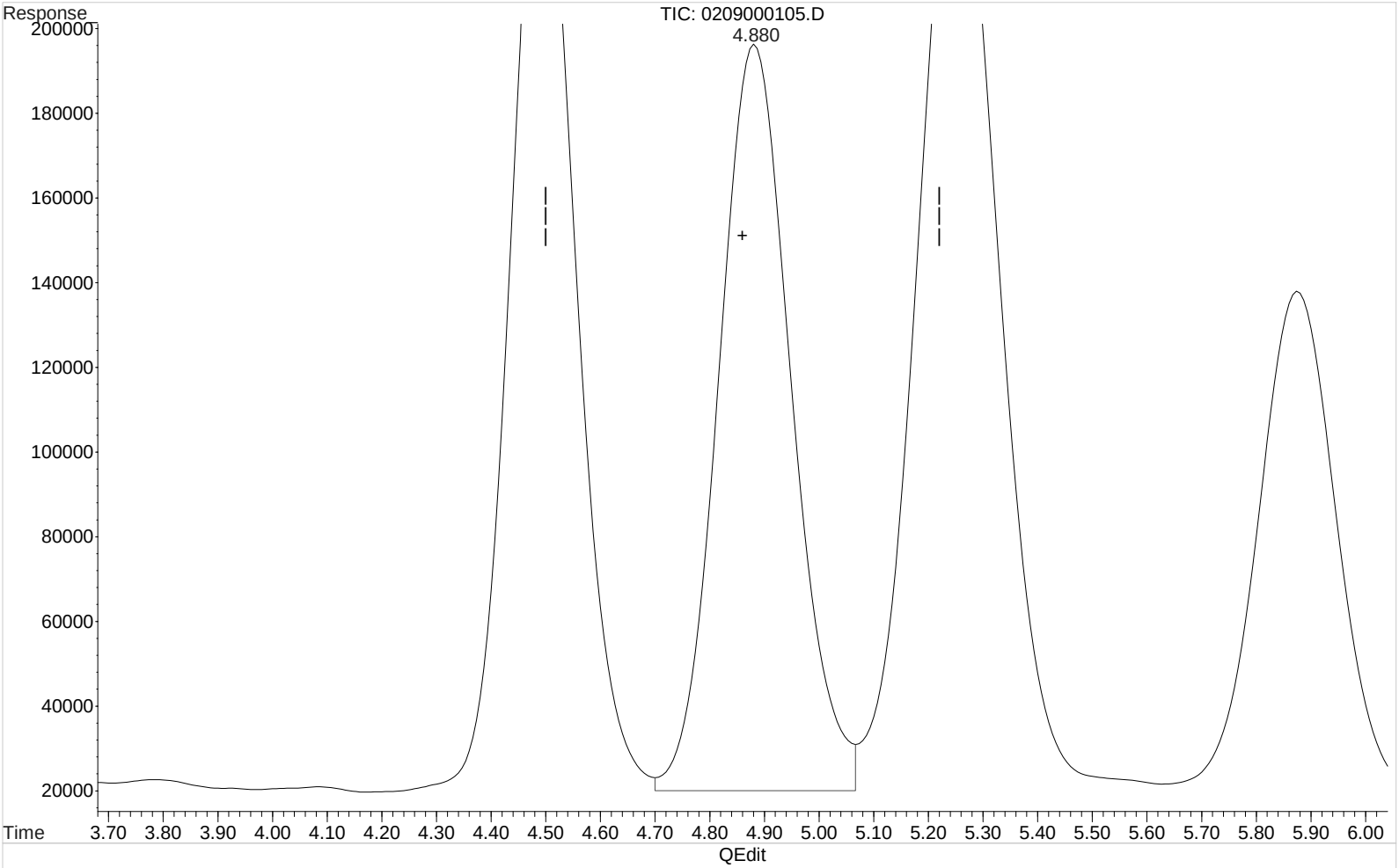
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(5) 4-Amino-2,6-DNT (T)

4.880min 51.865 ug/L m

response 1640782

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

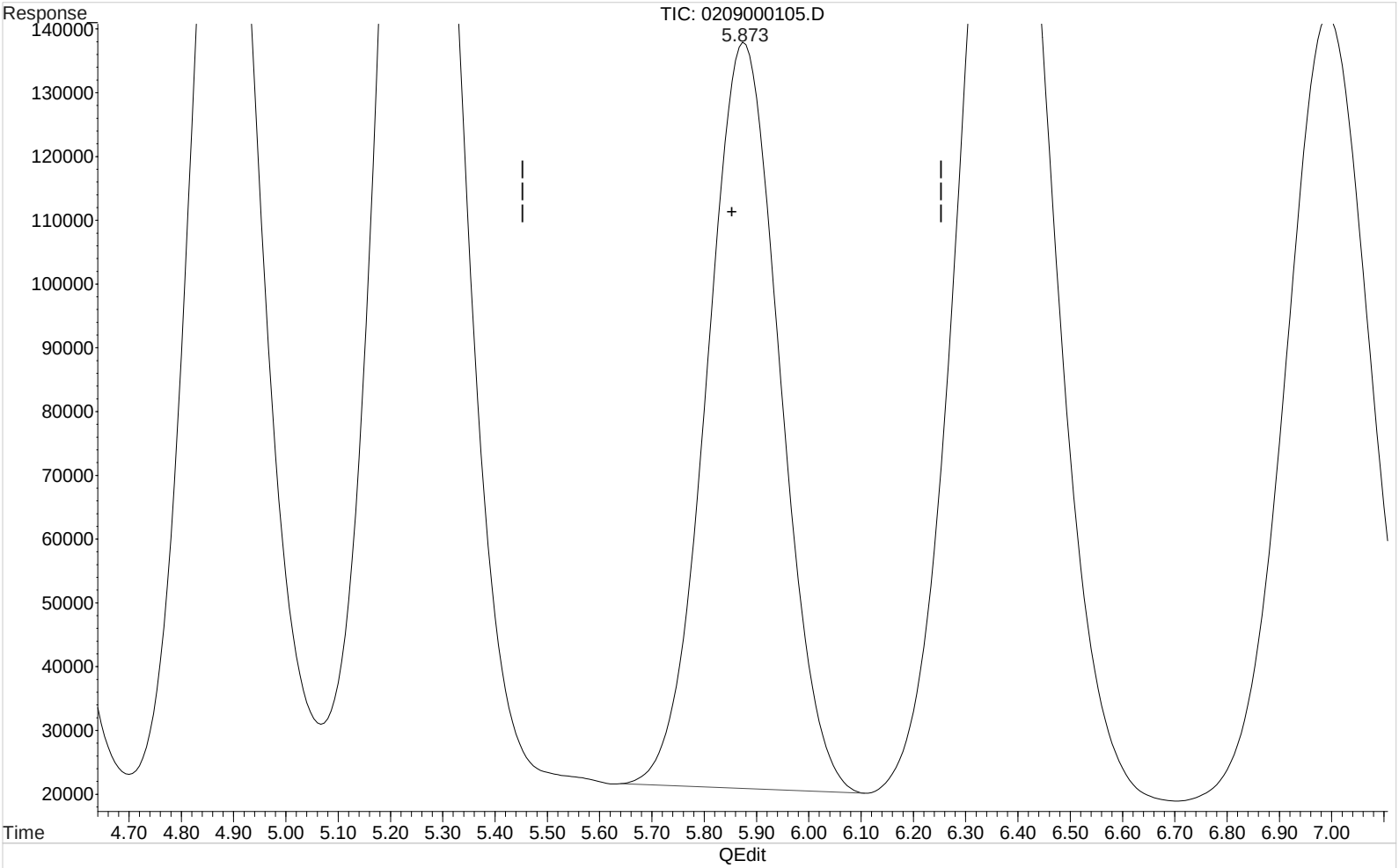
Quantitation Report (Qedit)

(b) (6)
1st 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.873min 48.523 ug/L

response 1142649

Manual Integration:

Before

02/13/17

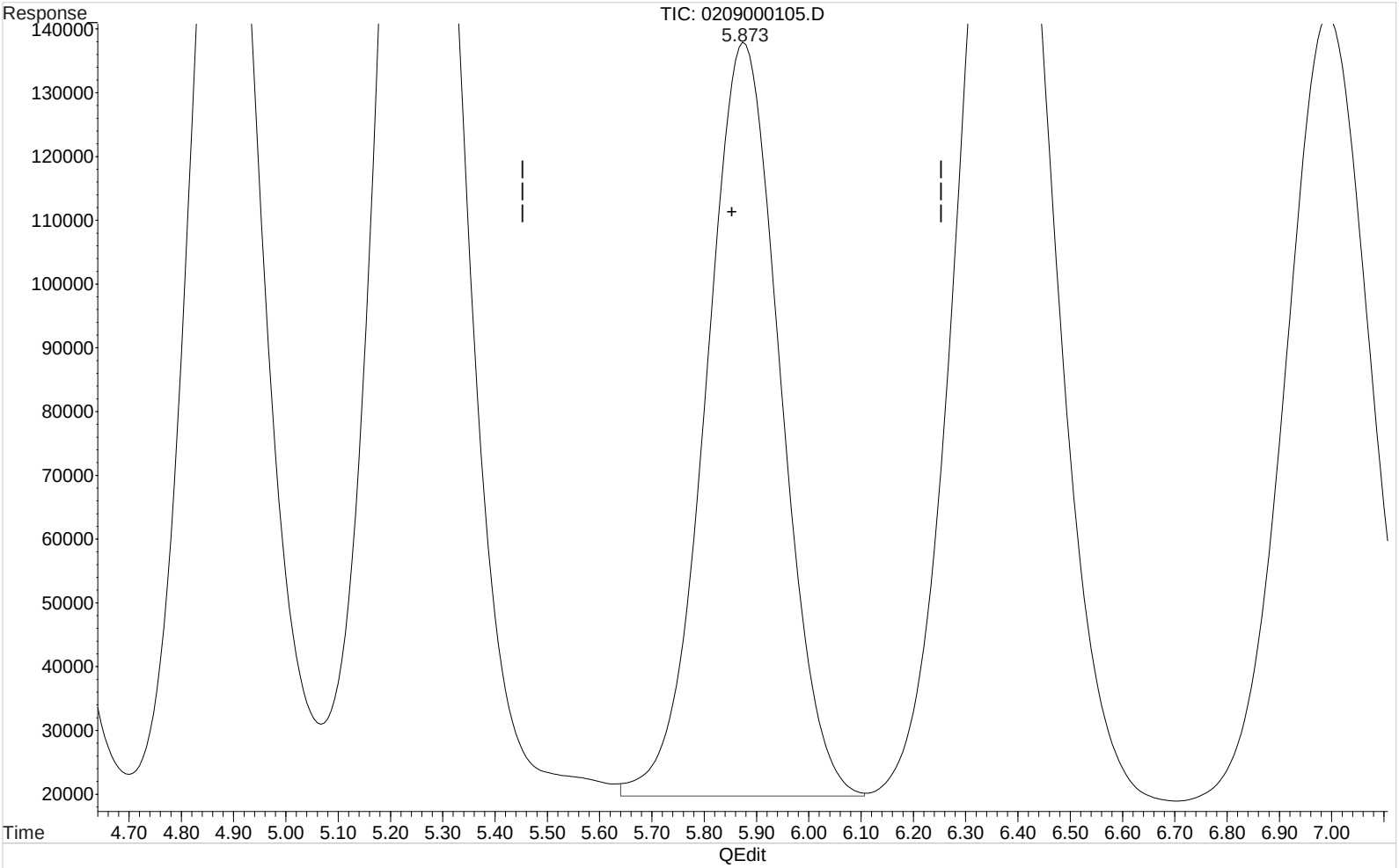
(+) = Expected Retention Time

1st (b) (6) 02/13/17
2nd [redacted] 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000105.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 16:37:21 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:56 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:07:41 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.873min 49.902 ug/L m

response 1175129

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:21 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds							
11)	S	1-Chloro-3-Nitrobenzene	8.140	2657922	101.044	ug/L	
Target Compounds							
1)	T	HMX	2.553	1564147	99.582	ug/L	m
2)	T	RDX	2.800	1816656	101.172	ug/L	m
3)	T	Nitrobenzene	4.487	3709544	100.200	ug/L	m
4)	T	3,5-Dinitroaniline	5.247	4640472	100.360	ug/L	m
5)	T	4-Amino-2,6-DNT	4.867	3162039	99.946	ug/L	
6)	T	2-NT	5.867	2360051	100.252	ug/L	m
7)	T	2-Amino-4,6-DNT	6.367	4206003	100.723	ug/L	m
8)	T	3-NT	6.987	2804284	100.814	ug/L	
9)	T	1,3-DNB	9.140	5626152	101.488	ug/L	
10)	T	4-NT	7.853	2280814	100.351	ug/L	
12)	T	2,6-DNT	8.827	2426327	99.008	ug/L	
13)	T	2,4-DNT	14.820	5175598	101.753	ug/L	
14)	T	Tetryl	13.000	3027728	104.293	ug/L	
15)	T	1,3,5-TNB	19.807	4146878	101.012	ug/L	
16)	T	2,4,6-TNT	20.793	3878263	100.435	ug/L	

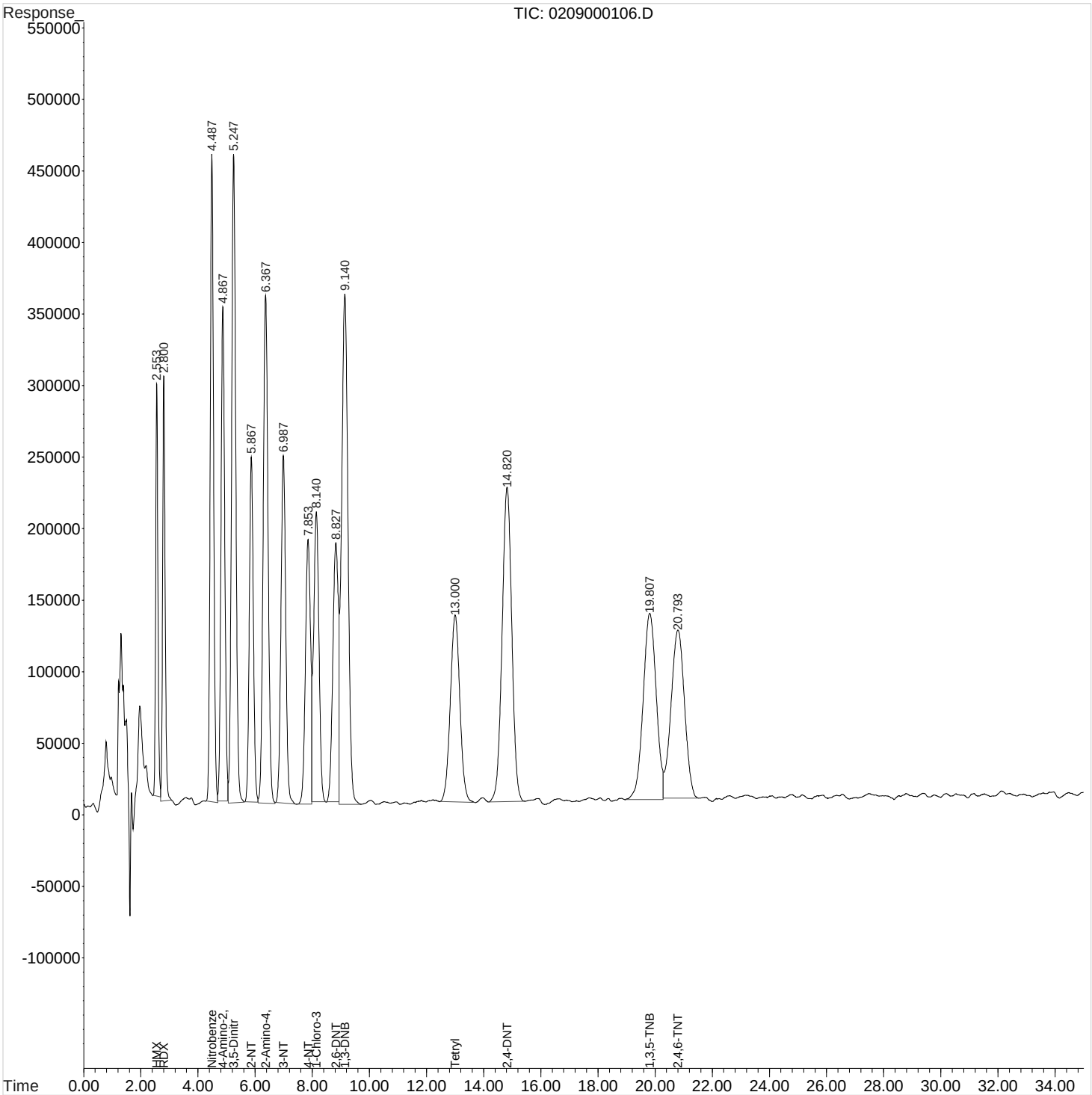
(f)=RT Delta > 1/2 Window (m)=manual int.

1st (b) (6) 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:21 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



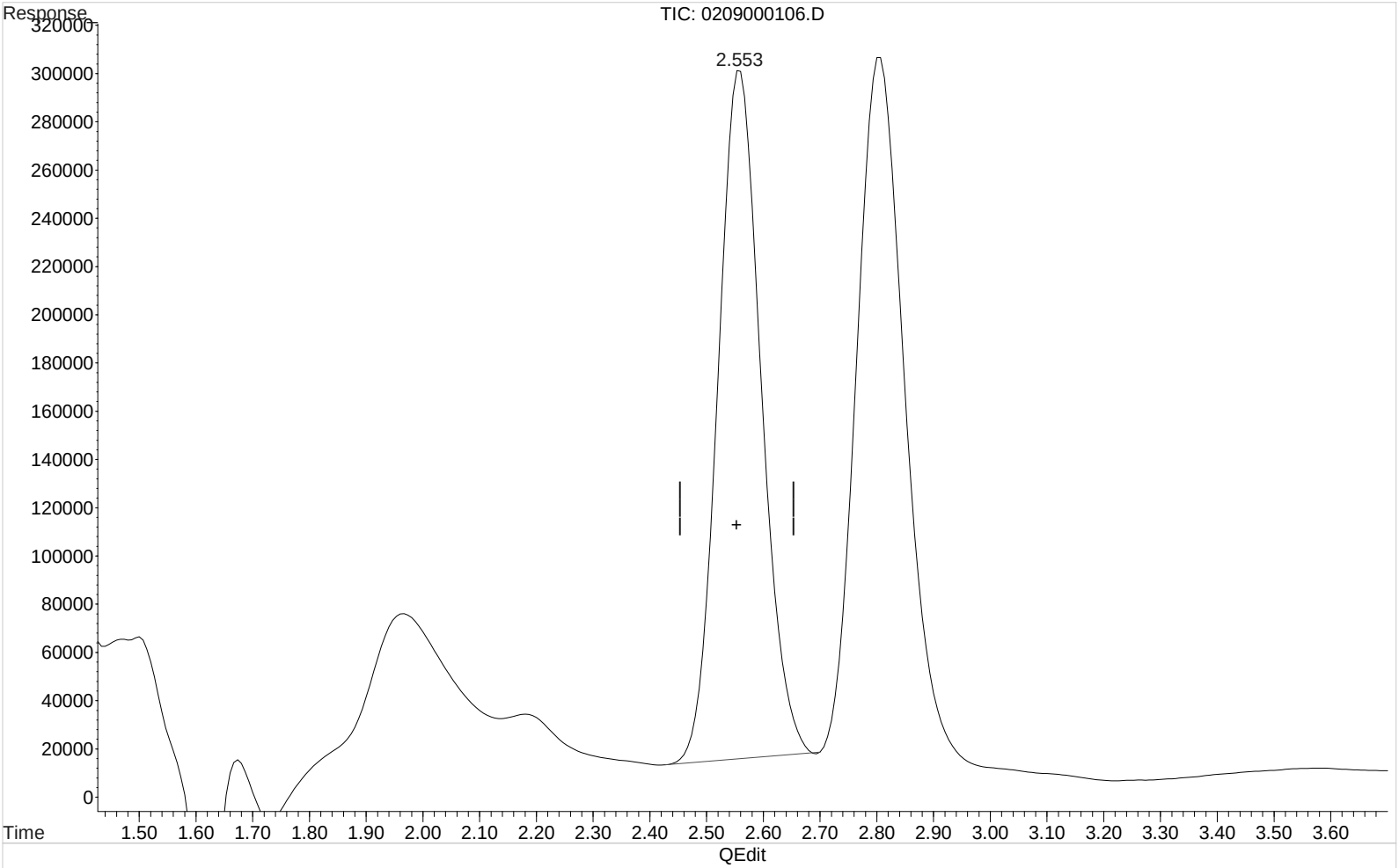
Quantitation Report (Qedit)

(b)(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.553min 96.655 ug/L

response 1518161

Manual Integration:

Before

02/13/17

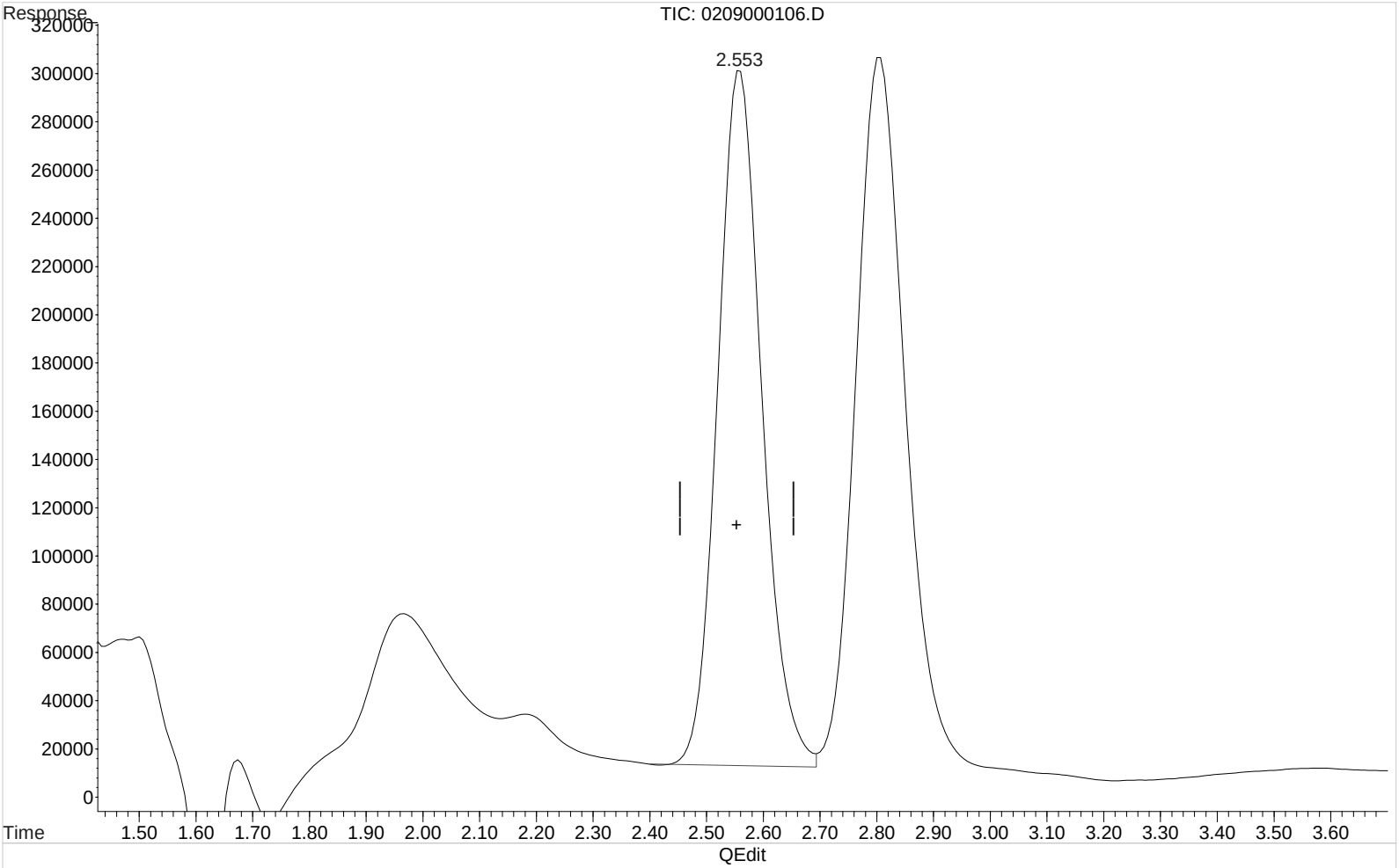
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.553min 99.582 ug/L m

response 1564147

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

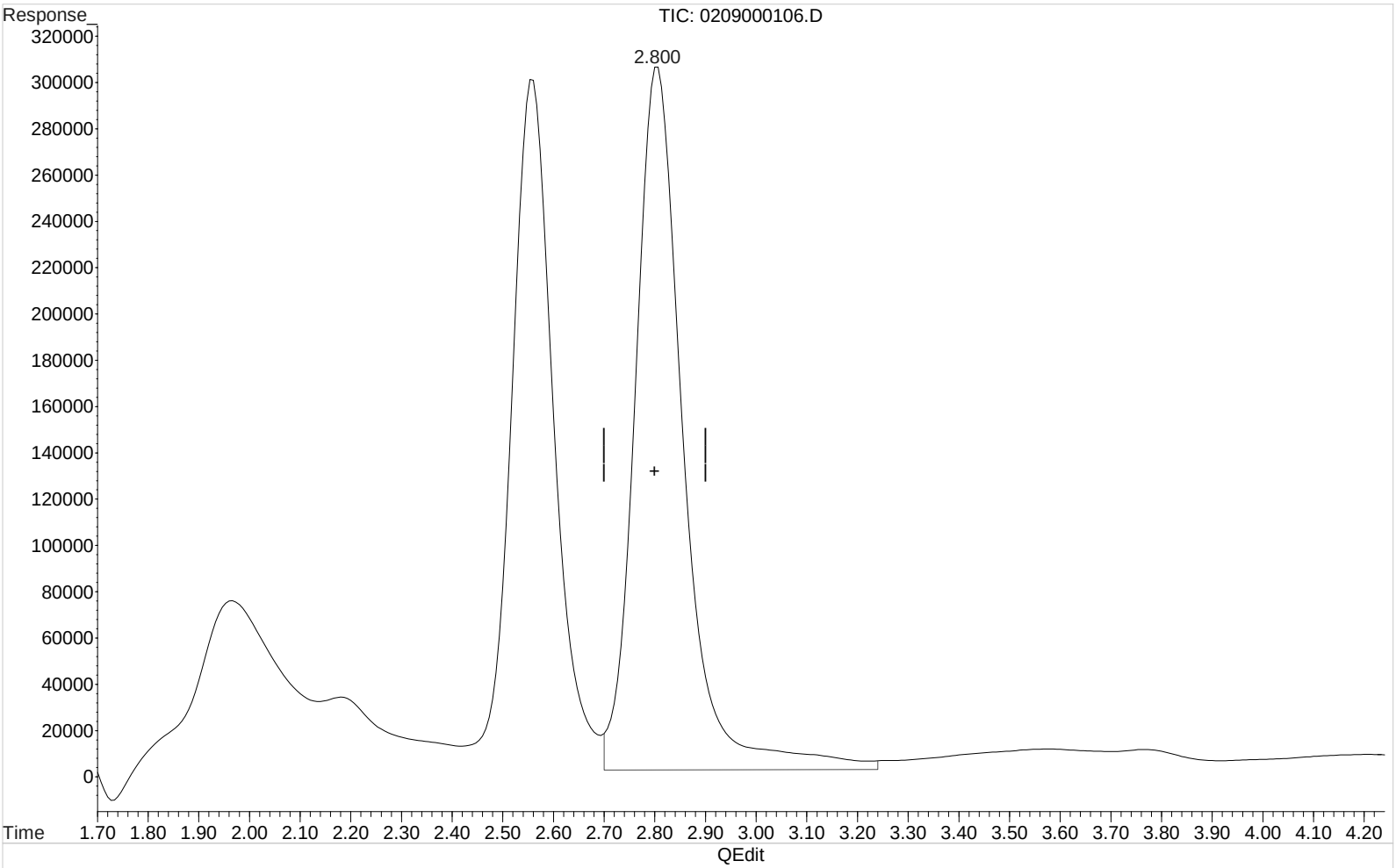
Quantitation Report (Qedit)

(b) (6)
1s 2/13/17
2n 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(2) RDX (T)

2.800min 112.506 ug/L

response 2020163

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

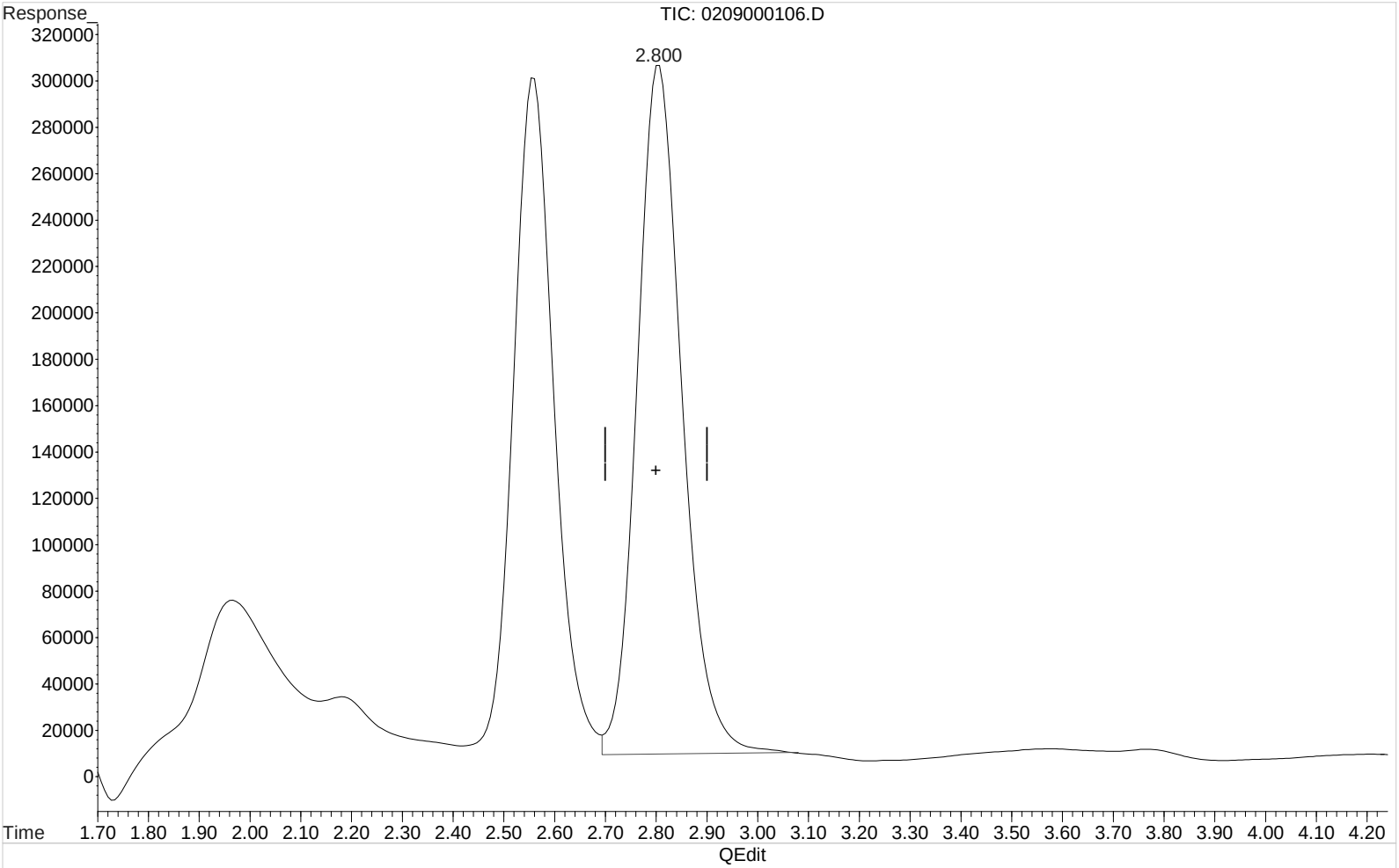
Quantitation Report (Qedit)

(b) (6)
1st 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(2) RDX (T)

2.800min 101.172 ug/L m

response 1816656

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

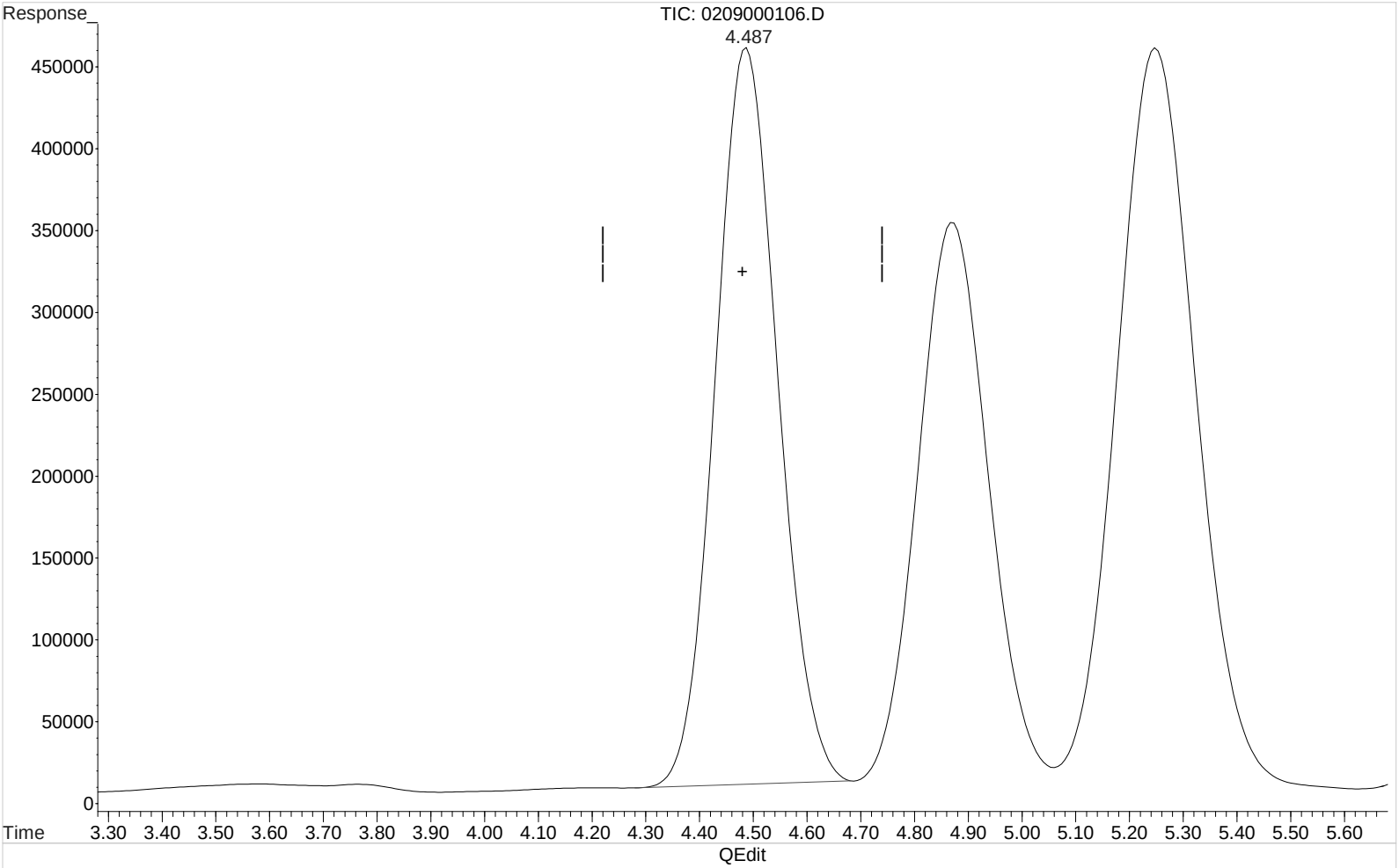
Quantitation Report (Qedit)

(b) (6)
1st 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 98.379 ug/L

response 3642131

Manual Integration:

Before

02/13/17

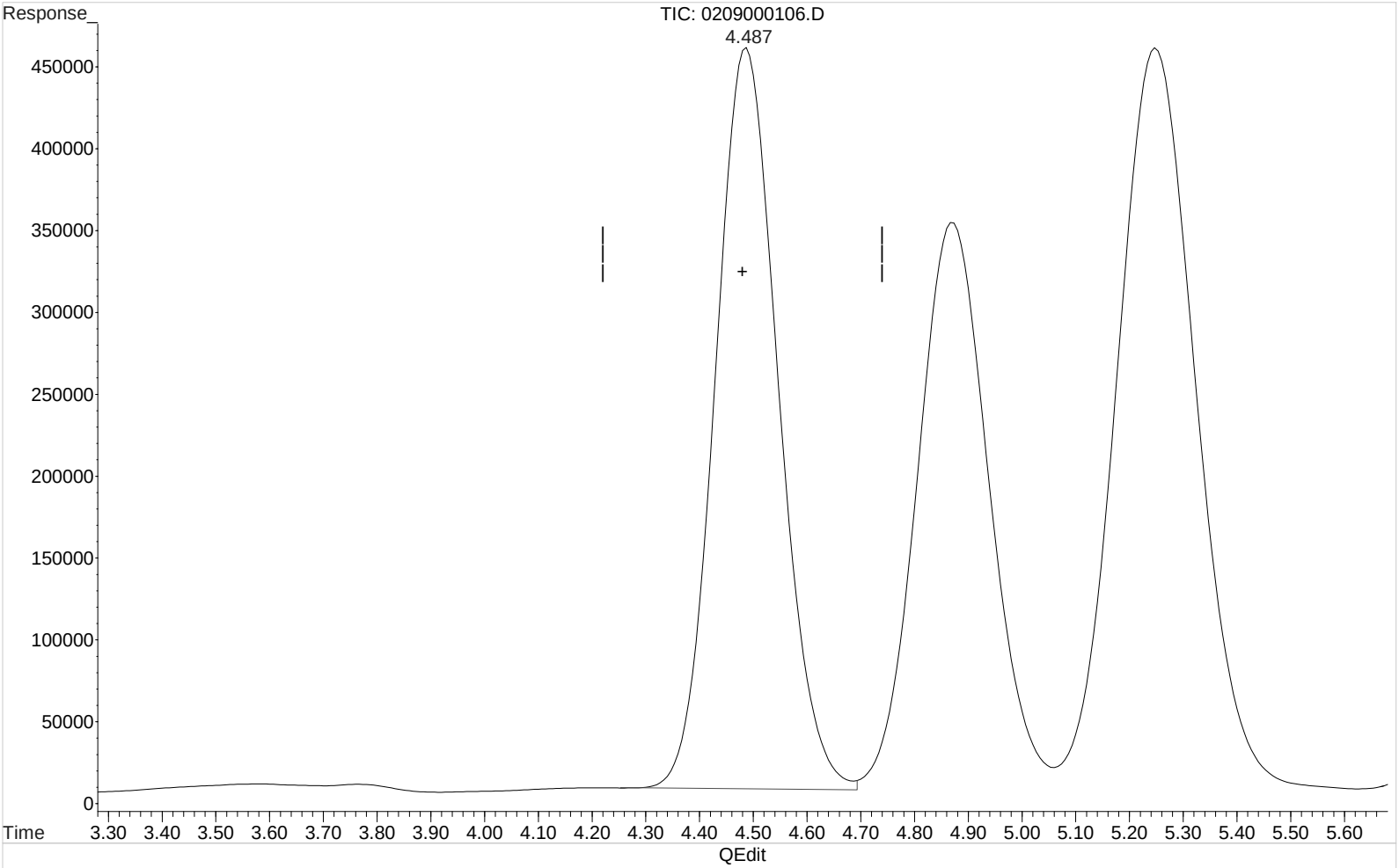
(+) = Expected Retention Time

1st (b) (6) /13/17
2nd /17/17

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 100.200 ug/L m

response 3709544

Manual Integration:

After

BLC

02/13/17

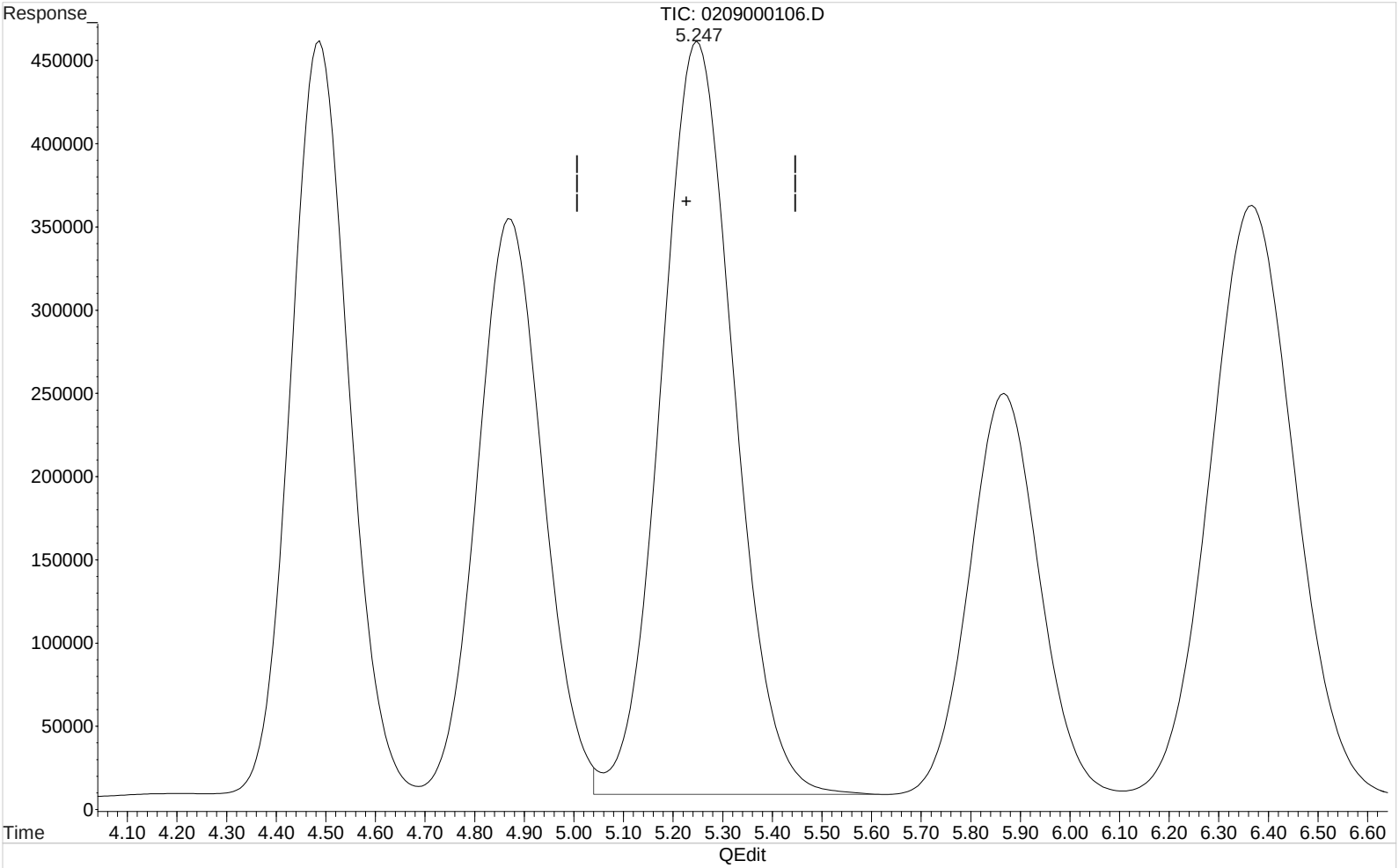
(+) = Expected Retention Time

(b) (6)
1st /13/17
2nd /17/17

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(4) 3,5-Dinitroaniline (T)

5.247min 100.244 ug/L

response 4635102

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

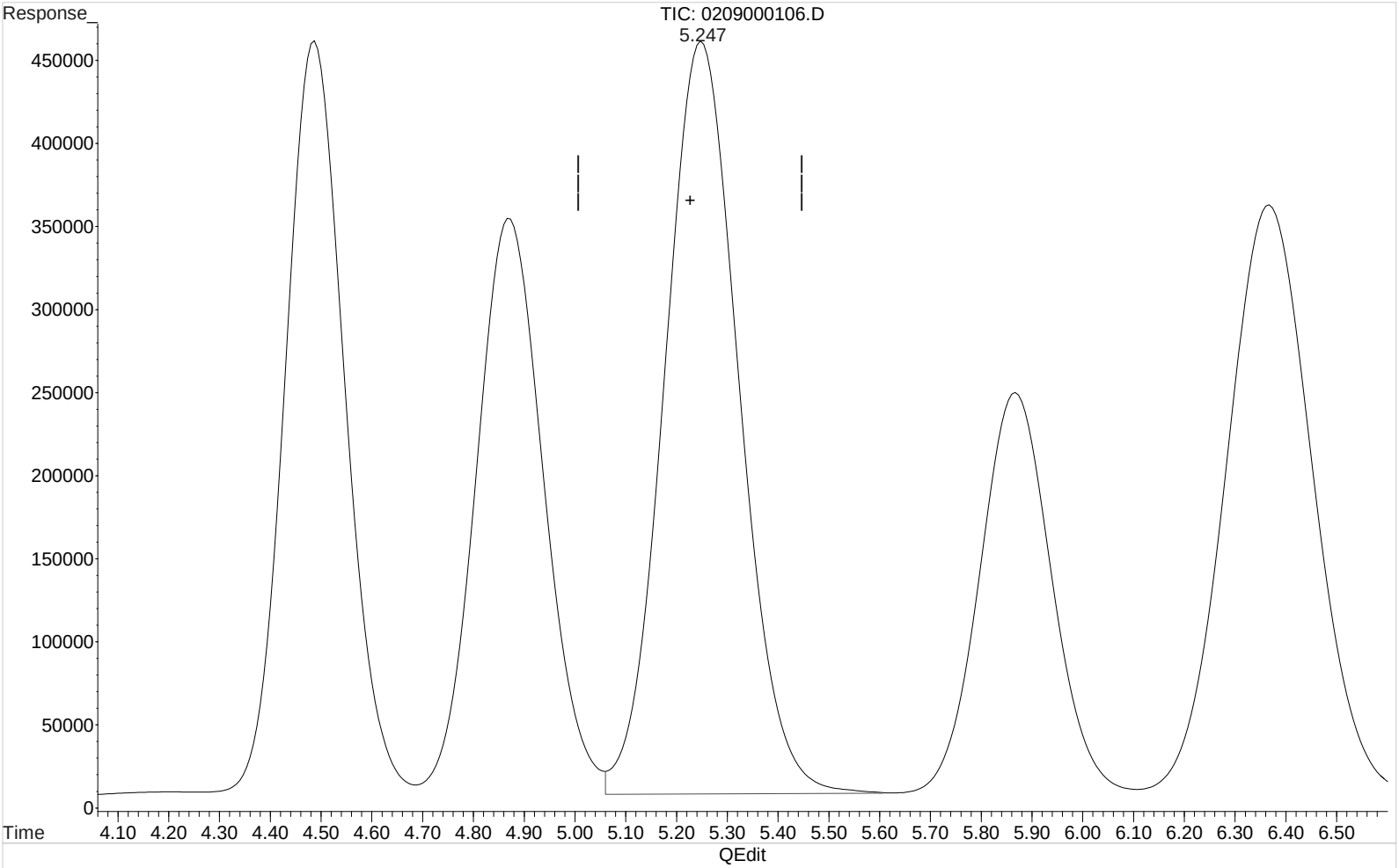
Quantitation Report (Qedit)

1st (b) (6) 02/13/17
2nd [redacted] 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:07:21 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(4) 3,5-Dinitroaniline (T)

5.247min 100.360 ug/L m

response 4640472

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

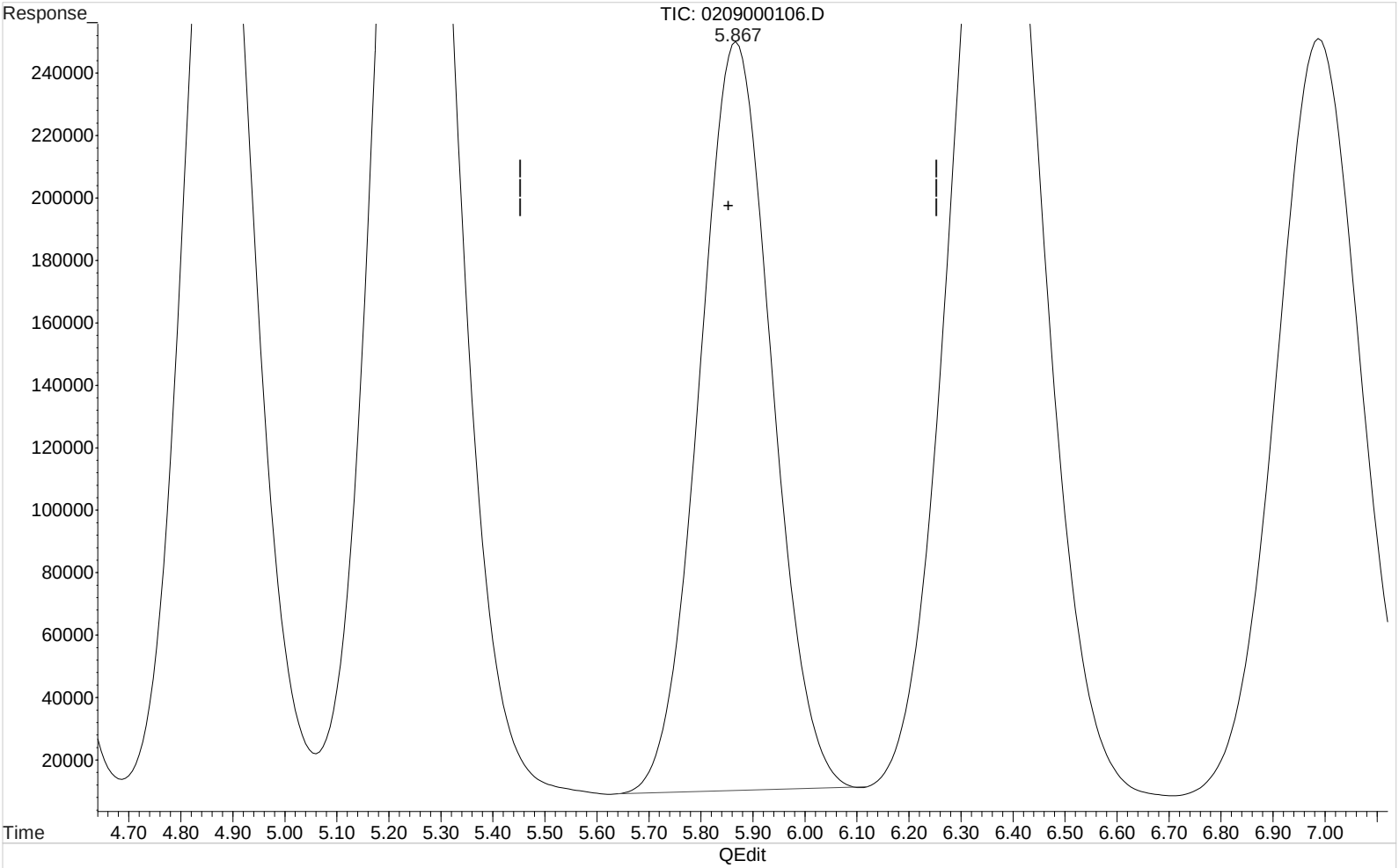
Quantitation Report (Qedit)

(b) (6)
1st 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.867min 98.817 ug/L

response 2326248

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

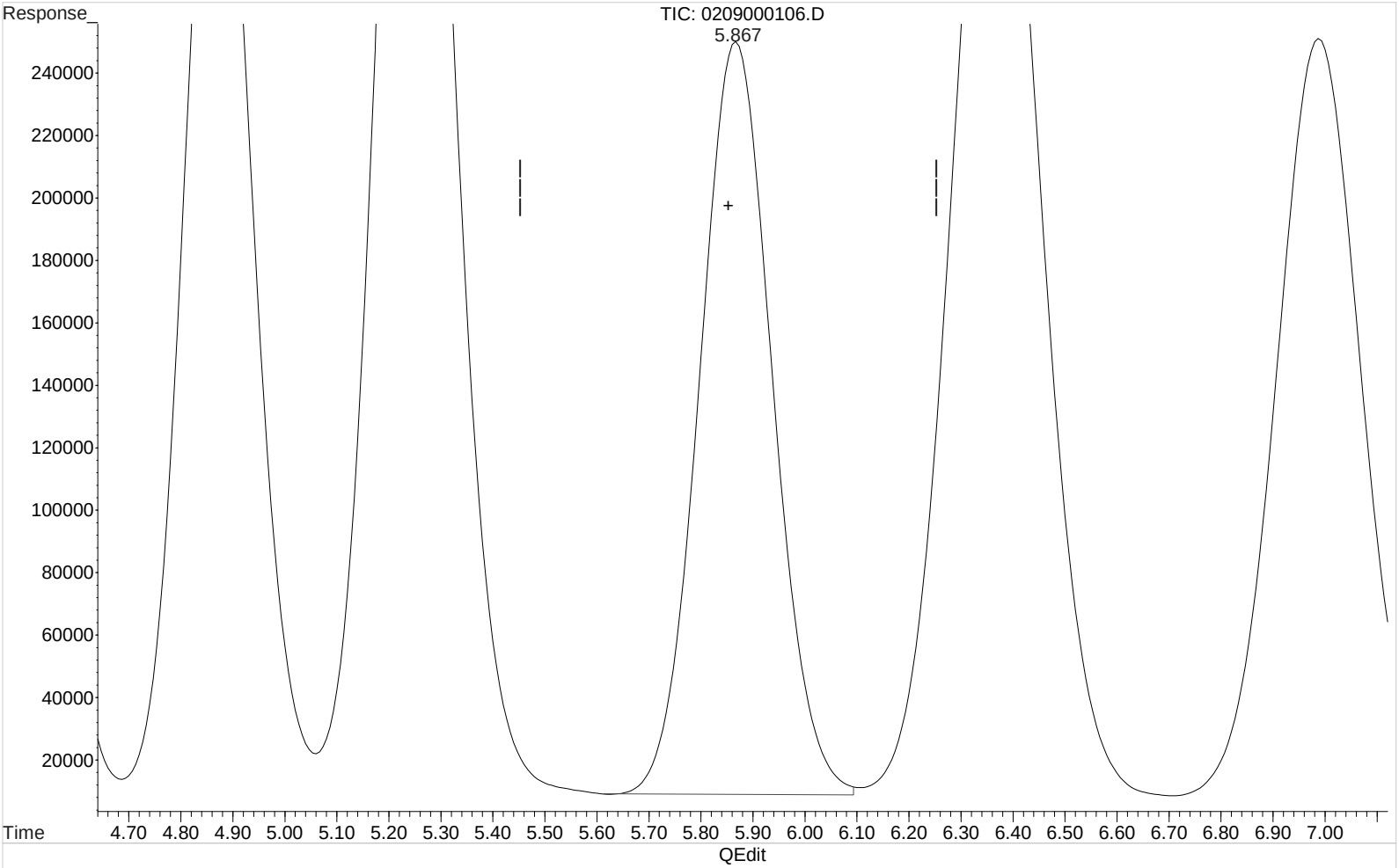
Quantitation Report (Qedit)

(b)
(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.867min 100.252 ug/L m

response 2360051

Manual Integration:

After

BLC

02/13/17

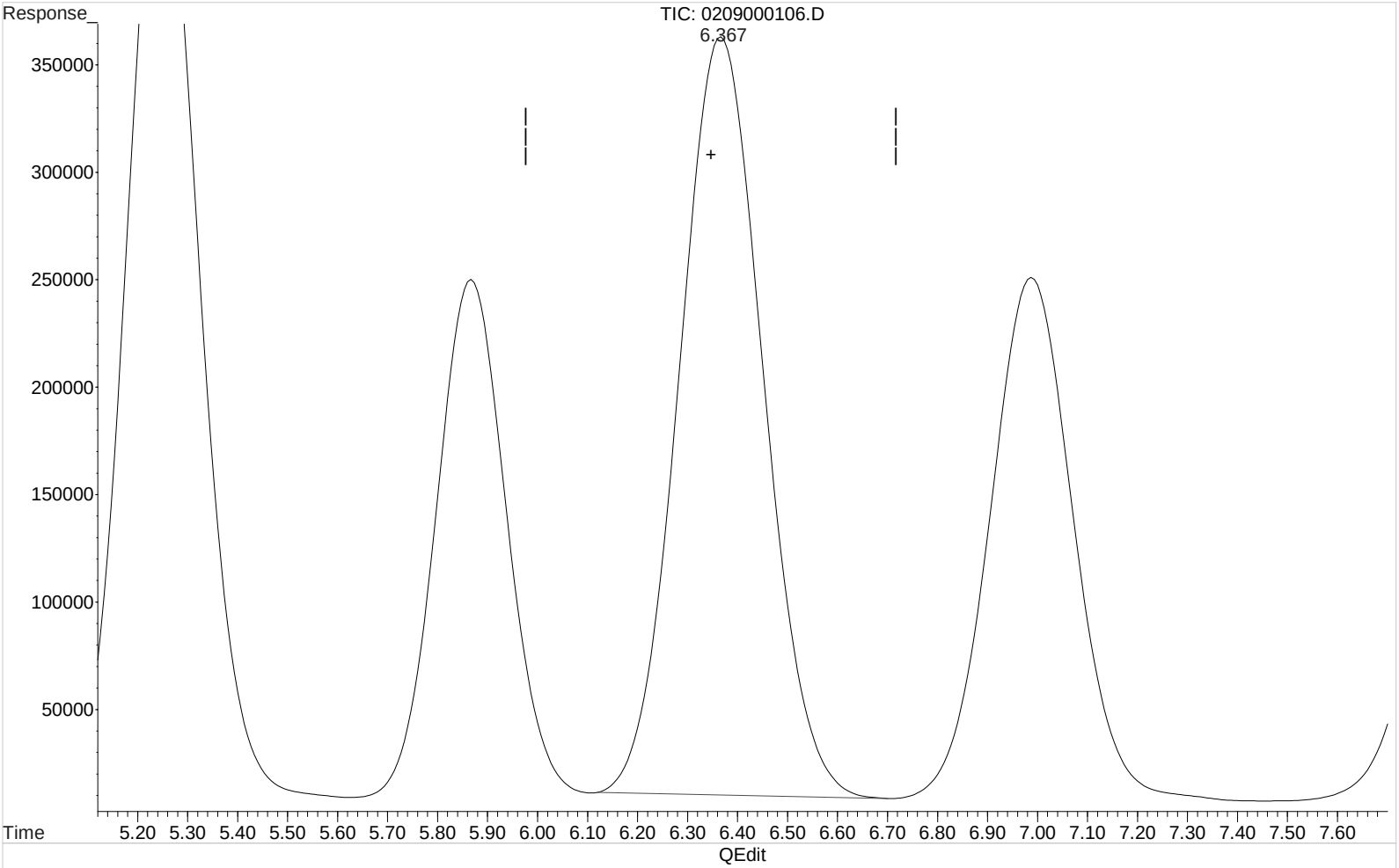
(+) = Expected Retention Time

1st (b) (6) 02/13/17
2nd [redacted] 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.367min 99.082 ug/L

response 4137499

Manual Integration:

Before

02/13/17

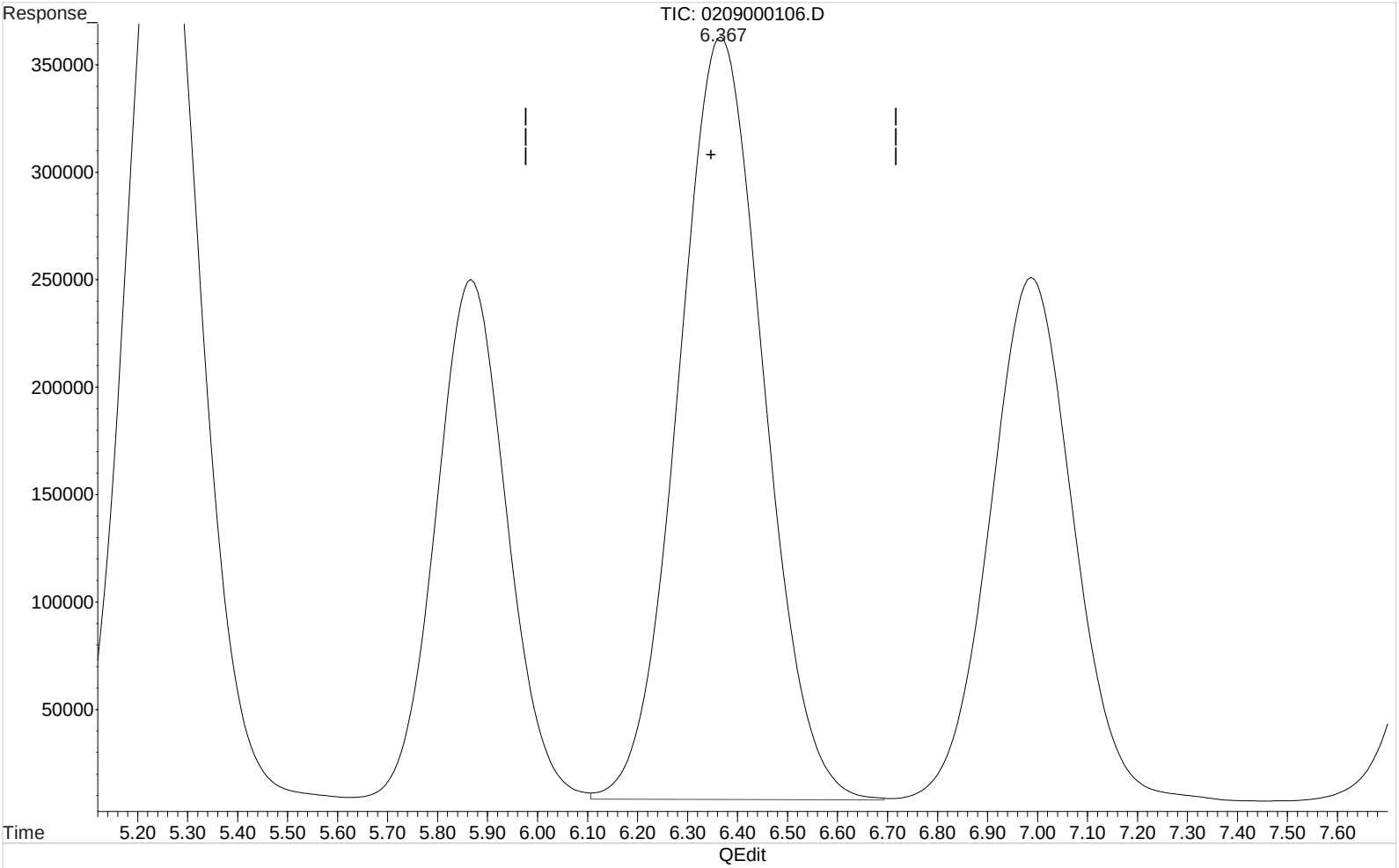
(+) = Expected Retention Time

1st (b) (6) 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000106.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:14:13 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:04:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:04:07 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(7) 2-Amino-4,6-DNT (T)

6.367min 100.723 ug/L m

response 4206003

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:02:59 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
11) S	1-Chloro-3-Nitrobenzene	8.133	5220675	198.216	ug/L	
	Target Compounds					
1) T	HMX	2.553	3190741	203.674	ug/L	m
2) T	RDX	2.800	3669487	205.104	ug/L	m
3) T	Nitrobenzene	4.487	7378721	199.195	ug/L	m
4) T	3,5-Dinitroaniline	5.240	9267786	200.507	ug/L	
5) T	4-Amino-2,6-DNT	4.867	6395822	202.523	ug/L	
6) T	2-NT	5.860	4647246	196.985	ug/L	m
7) T	2-Amino-4,6-DNT	6.360	8414458	201.757	ug/L	m
8) T	3-NT	6.980	5578596	200.643	ug/L	m
9) T	1,3-DNB	9.133	11230158	203.013	ug/L	
10) T	4-NT	7.847	4460100	195.620	ug/L	
12) T	2,6-DNT	8.820	4883983	199.176	ug/L	
13) T	2,4-DNT	14.813	10333460	203.692	ug/L	
14) T	Tetryl	13.000	5723089	196.668	ug/L	
15) T	1,3,5-TNB	19.820	8131157	197.745	ug/L	
16) T	2,4,6-TNT	20.800	7763771	201.236	ug/L	

(f)=RT Delta > 1/2 Window (m)=manual int.

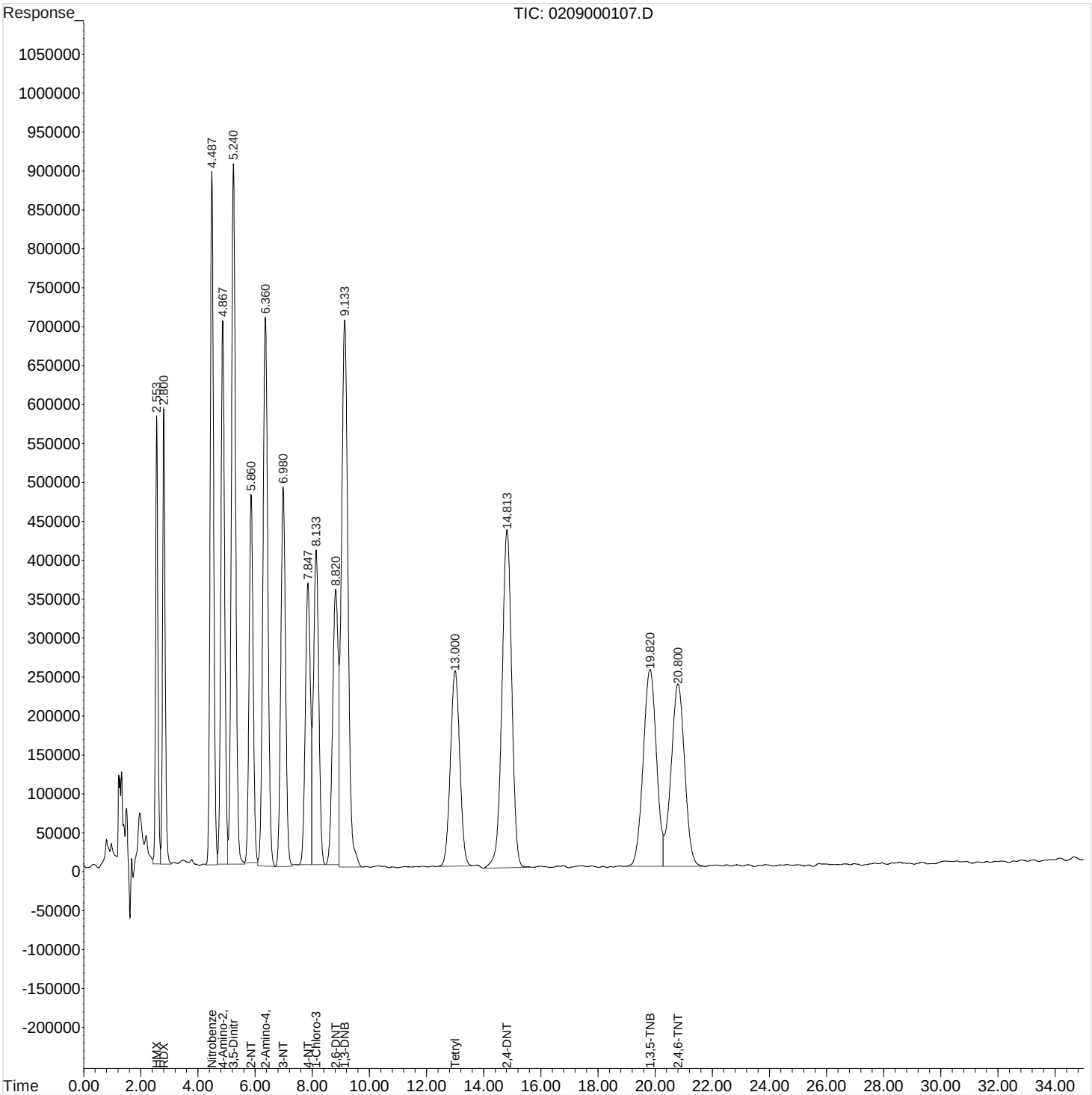
Quantitation Report (QT Reviewed)

1st (b)(6) 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:02:59 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



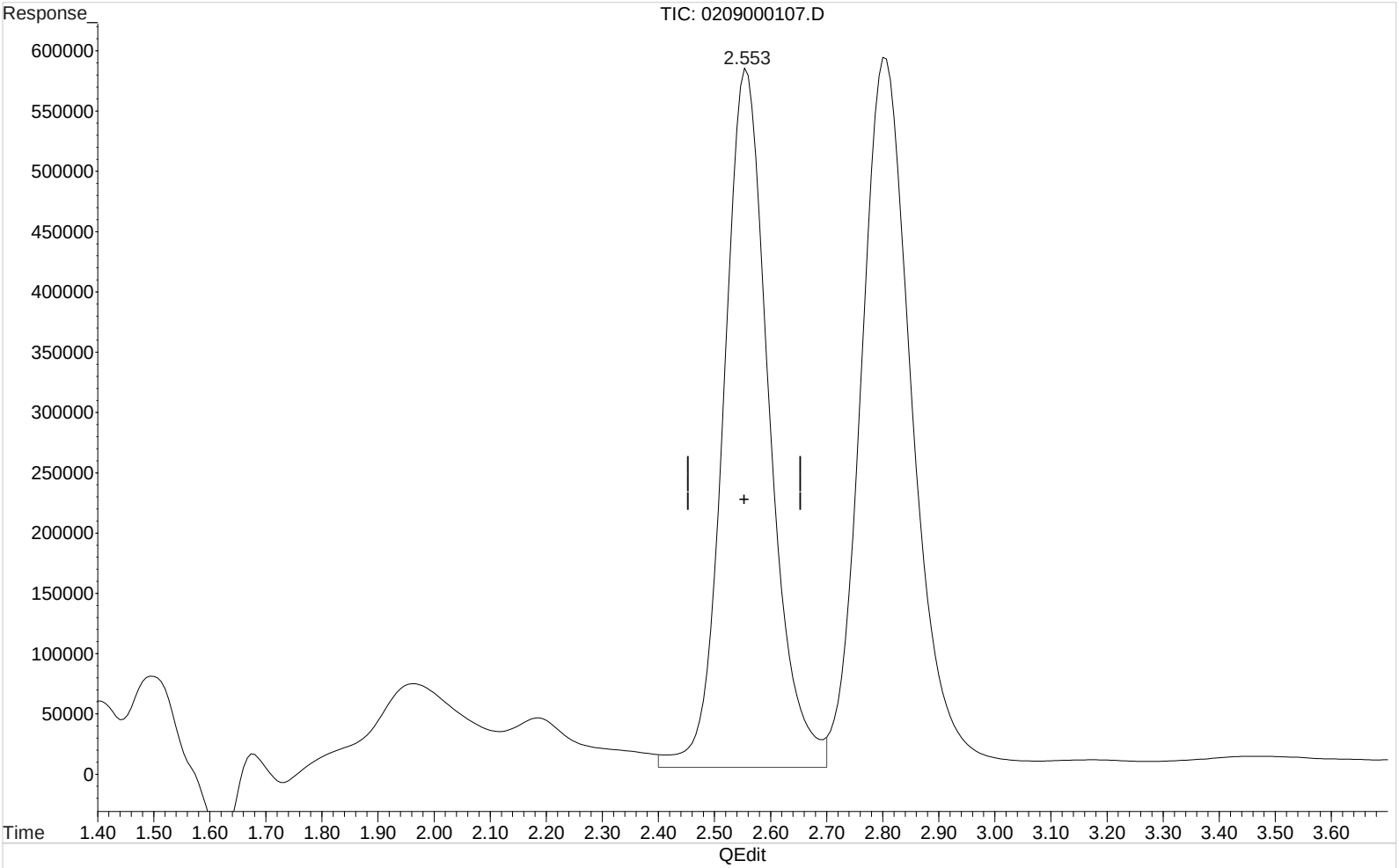
Quantitation Report (Qedit)

(b)(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.553min 209.905 ug/L

response 3288352

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

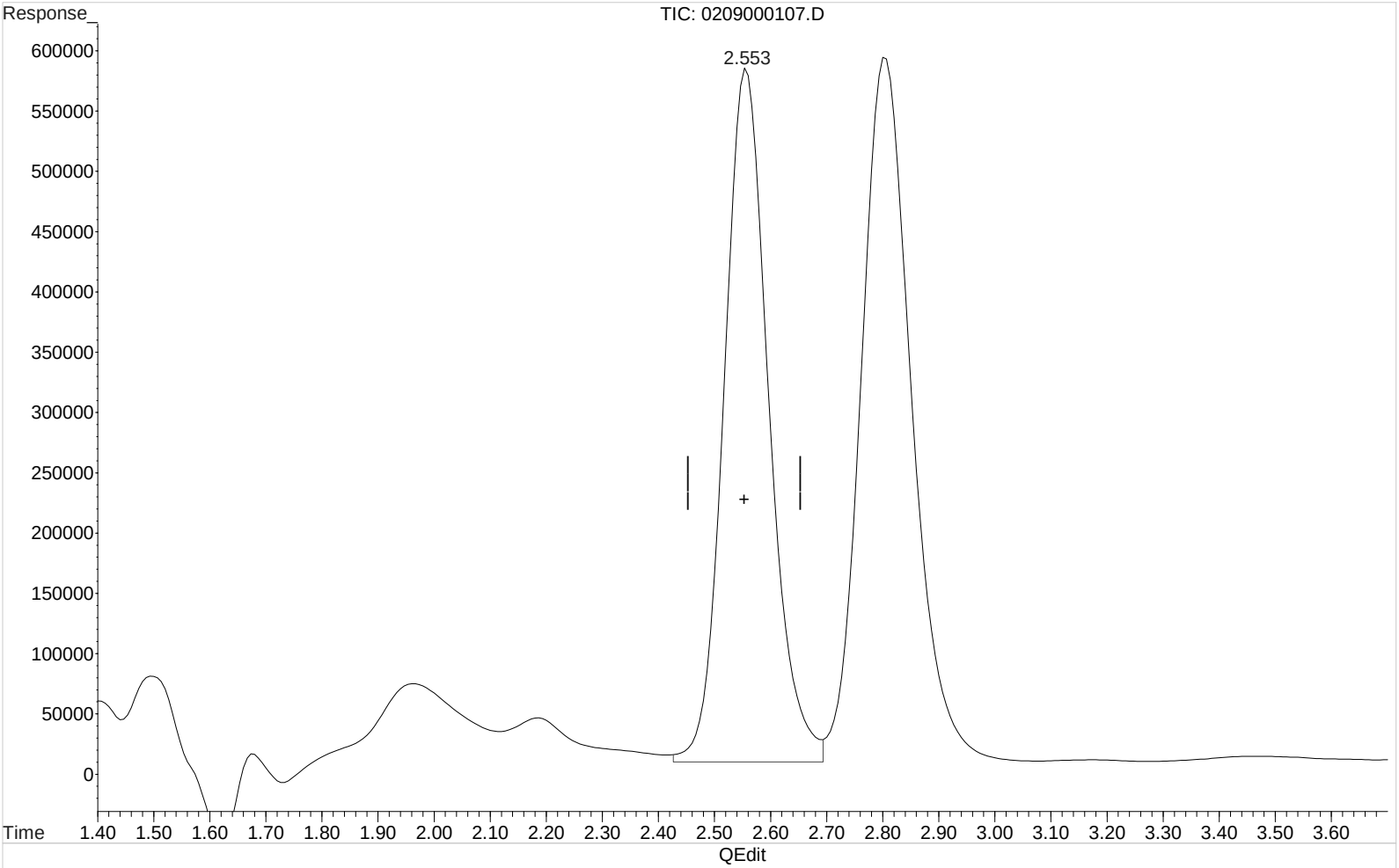
1st 02/13/17

2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.553min 203.674 ug/L m

response 3190741

Manual Integration:

After

BLC

02/13/17

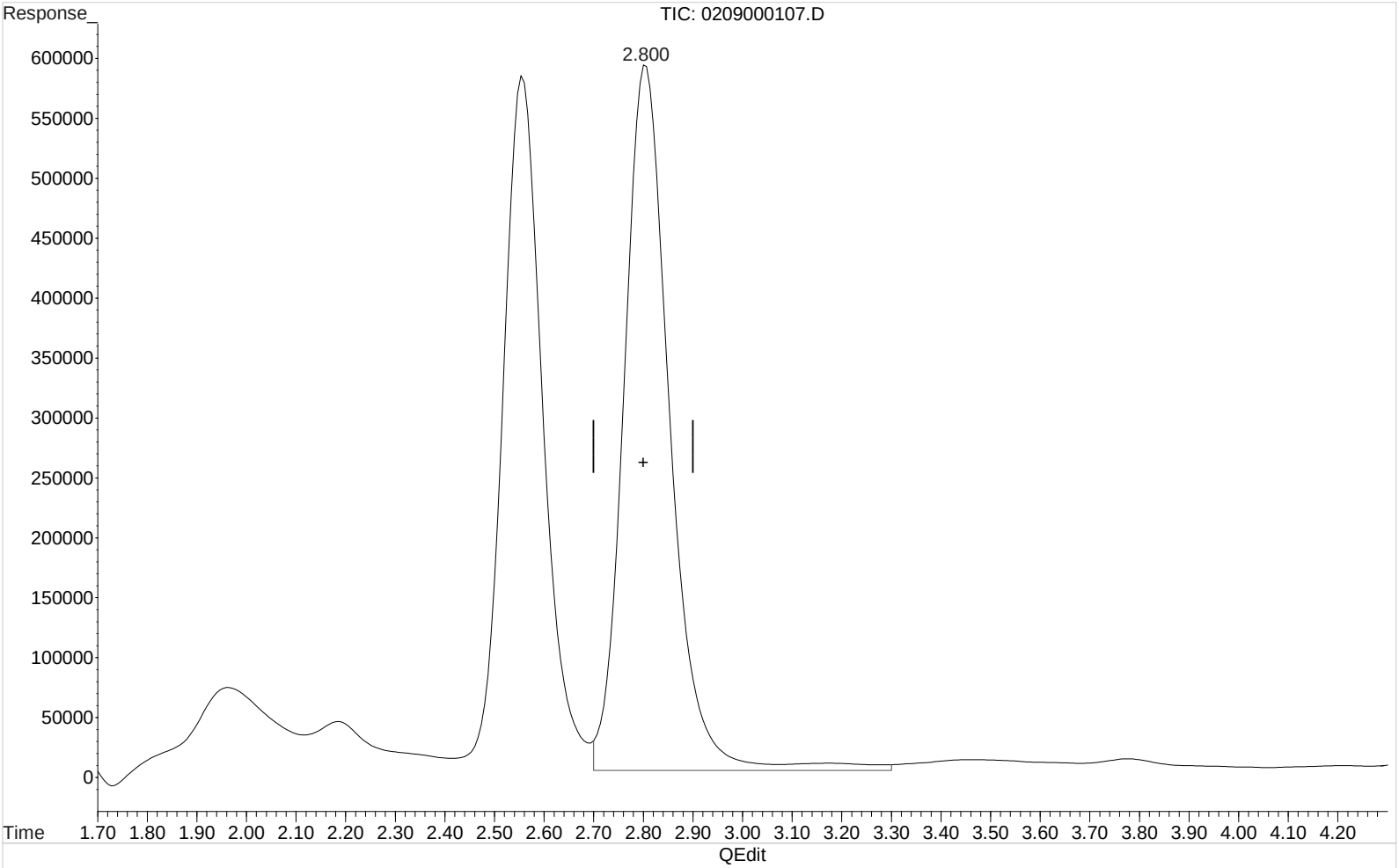
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(2) RDX (T)

2.800min 213.070 ug/L

response 3812015

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

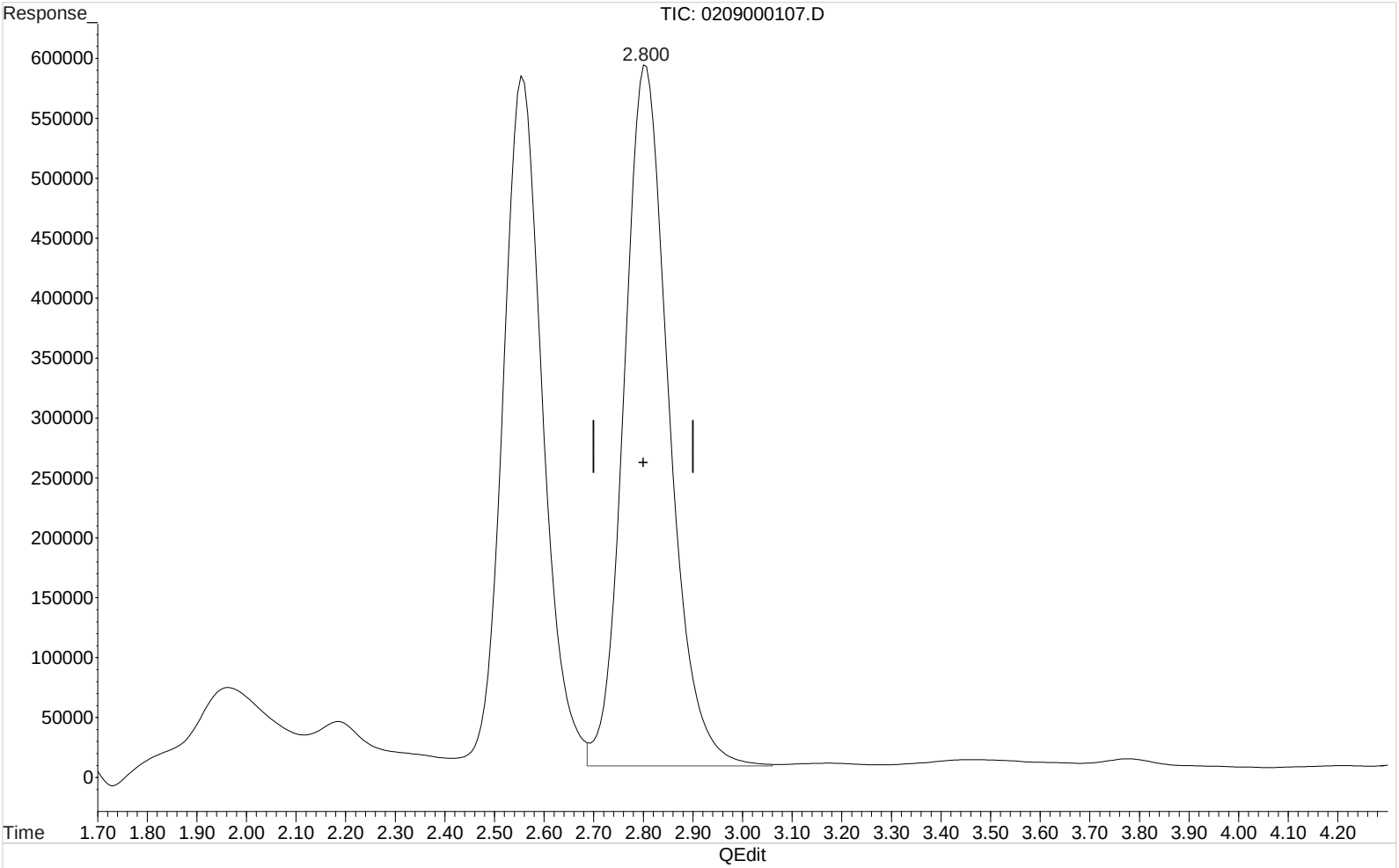
Quantitation Report (Qedit)

(b) (6)
1st 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(2) RDX (T)

2.800min 205.104 ug/L m

response 3669487

Manual Integration:

After

BLC

02/13/17

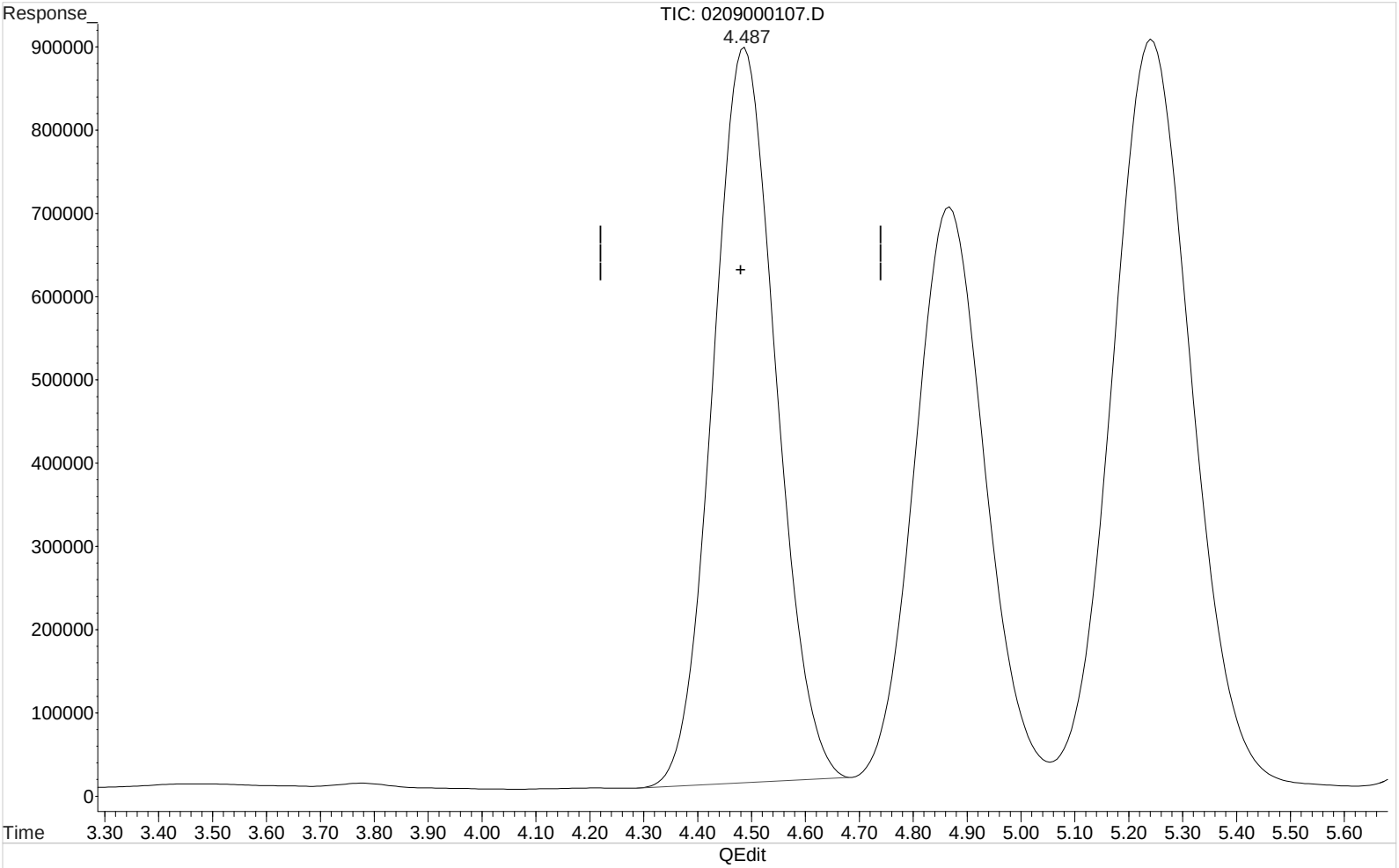
(+) = Expected Retention Time

(b) (6)
1st 2/13/17
2n 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 194.479 ug/L

response 7204041

Manual Integration:

Before

02/13/17

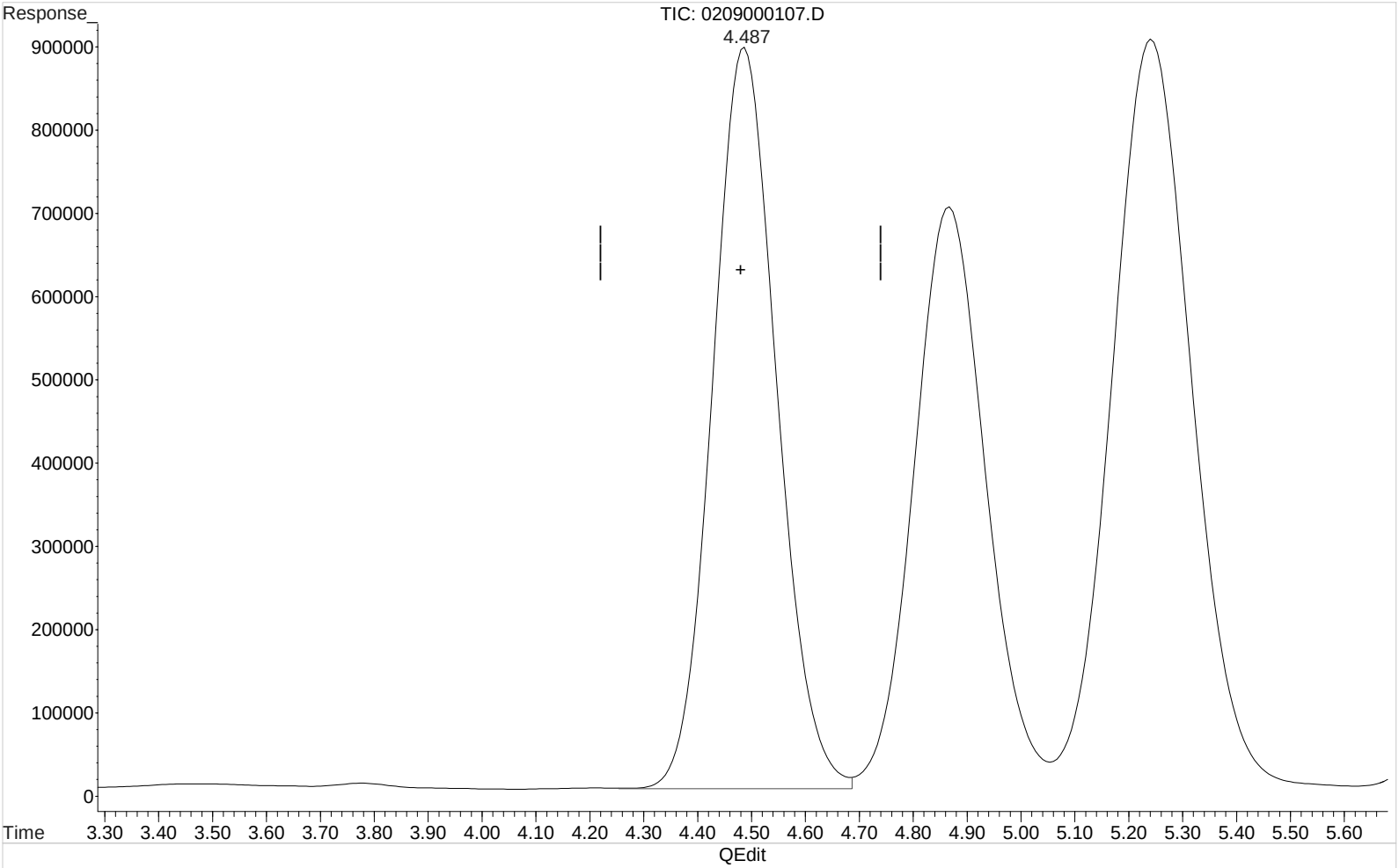
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 199.195 ug/L m

response 7378721

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

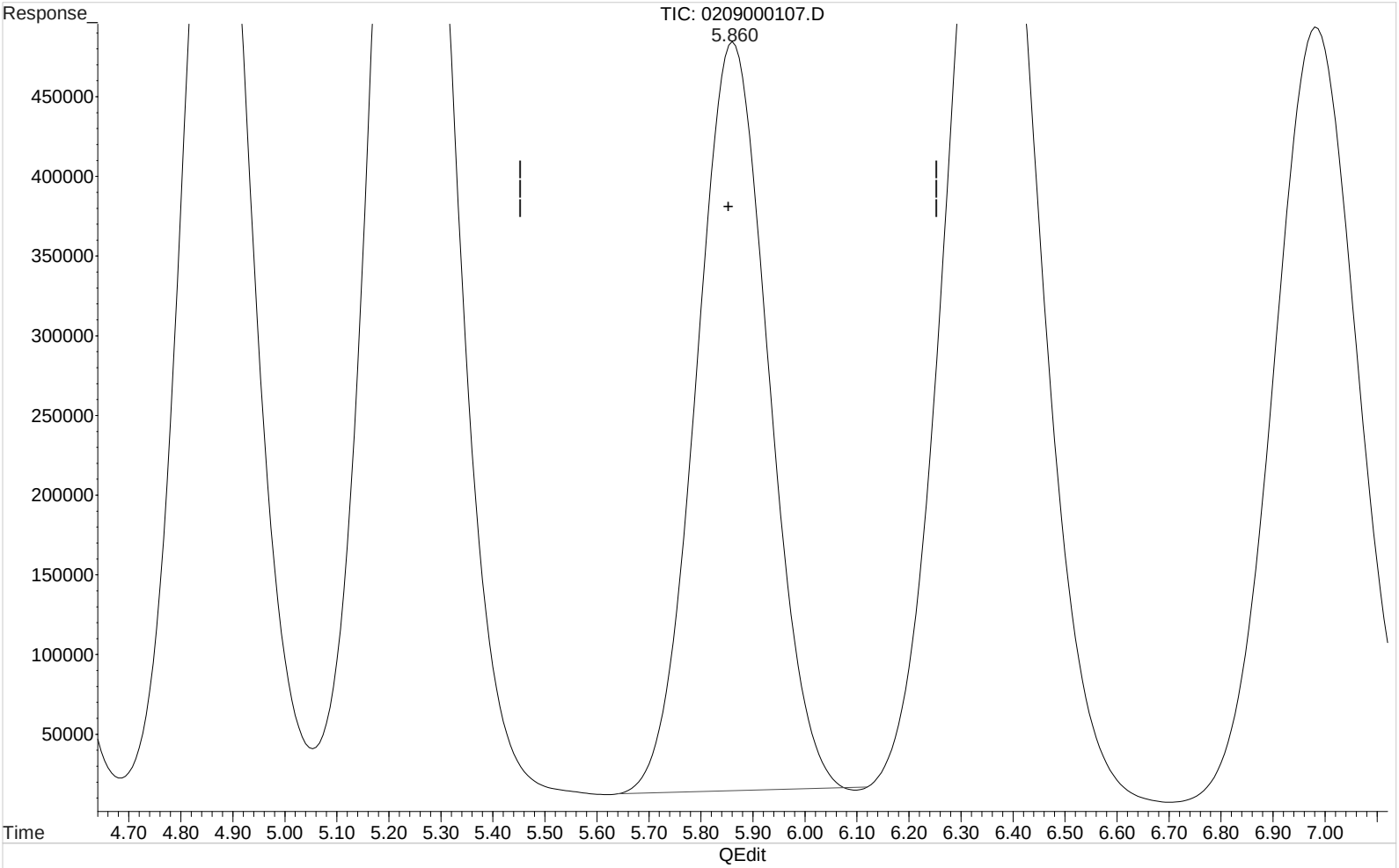
Quantitation Report (Qedit)

(b)
(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.860min 193.337 ug/L

response 4561182

Manual Integration:

Before

02/13/17

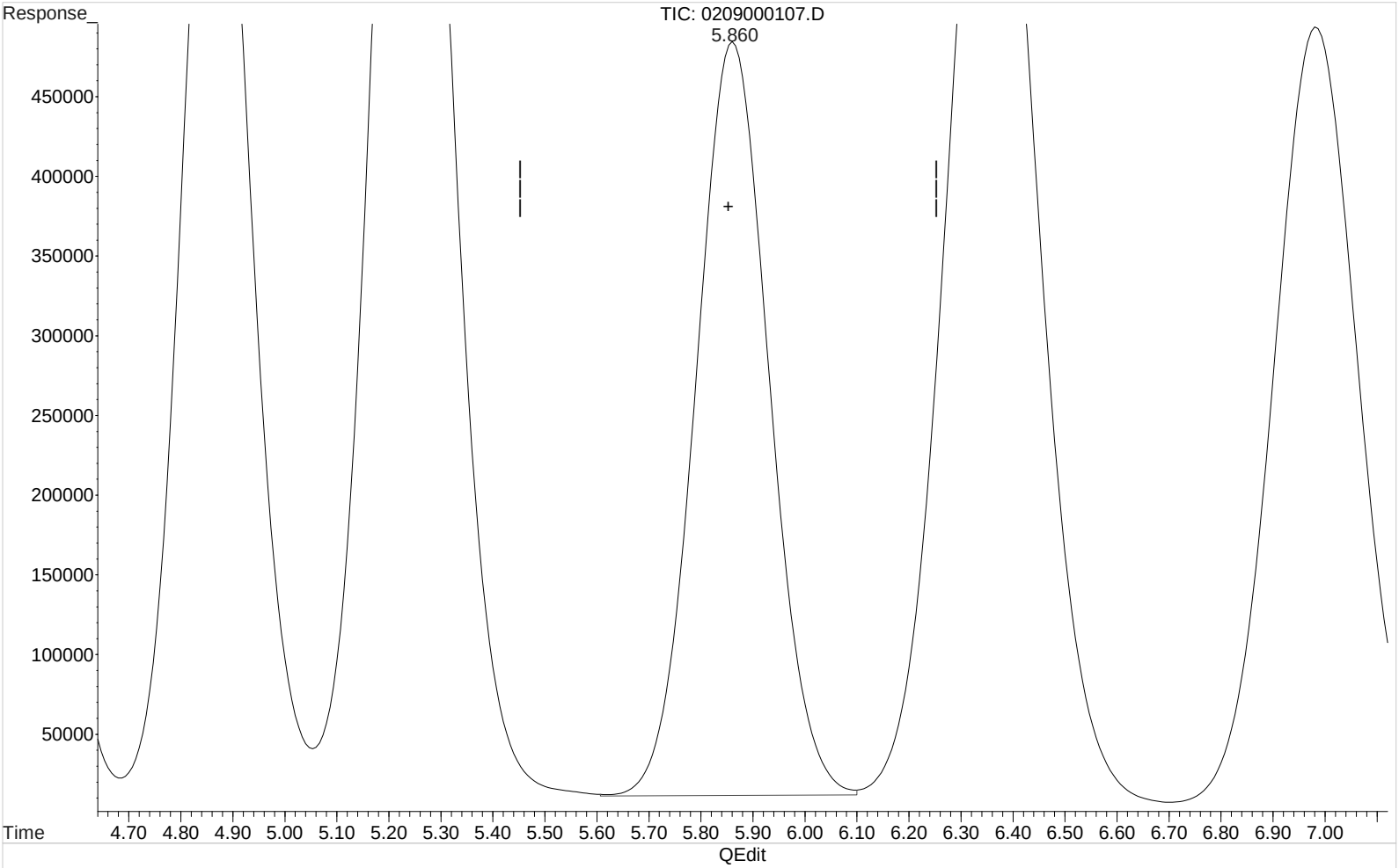
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.860min 196.985 ug/L m

response 4647246

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

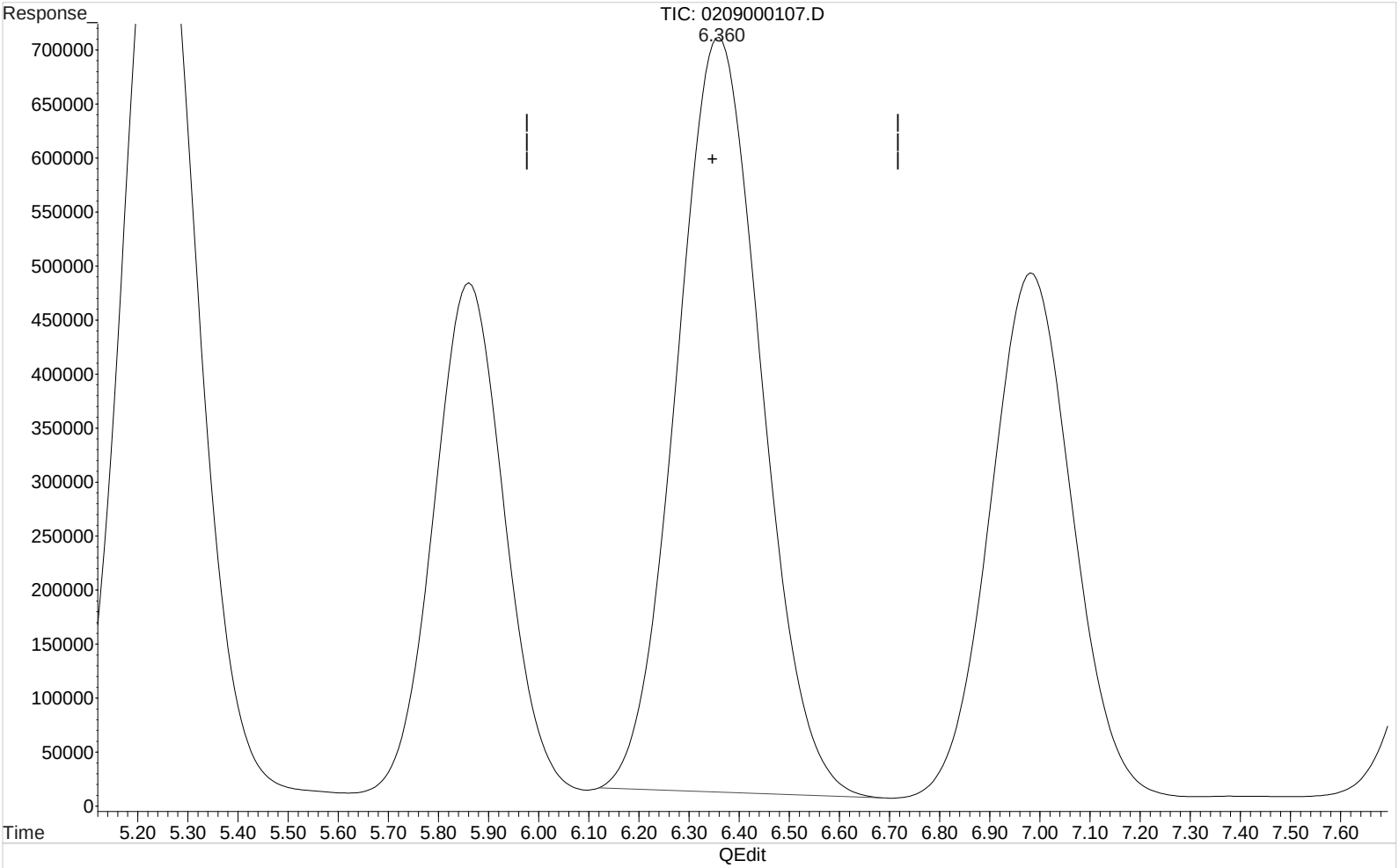
Quantitation Report (Qedit)

(b) (6)
1st [redacted] 02/13/17
2nd [redacted] 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(7) 2-Amino-4,6-DNT (T)

6.360min 197.248 ug/L

response 8226412

Manual Integration:

Before

02/13/17

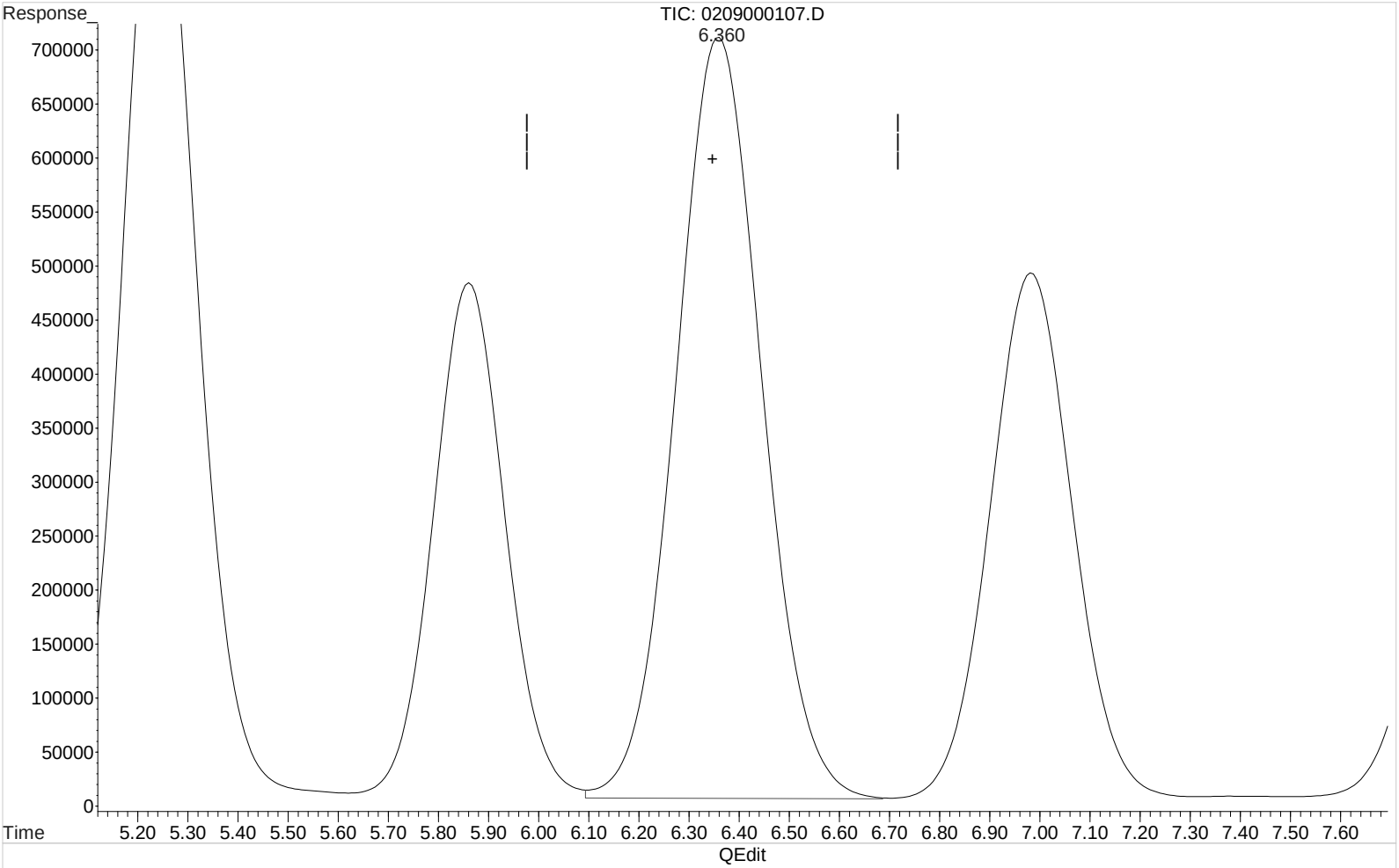
(+) = Expected Retention Time

(b) (6)
1st [redacted] 2/13/17
2nd [redacted] 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(7) 2-Amino-4,6-DNT (T)

6.360min 201.757 ug/L m

response 8414458

Manual Integration:

After

BLC

02/13/17

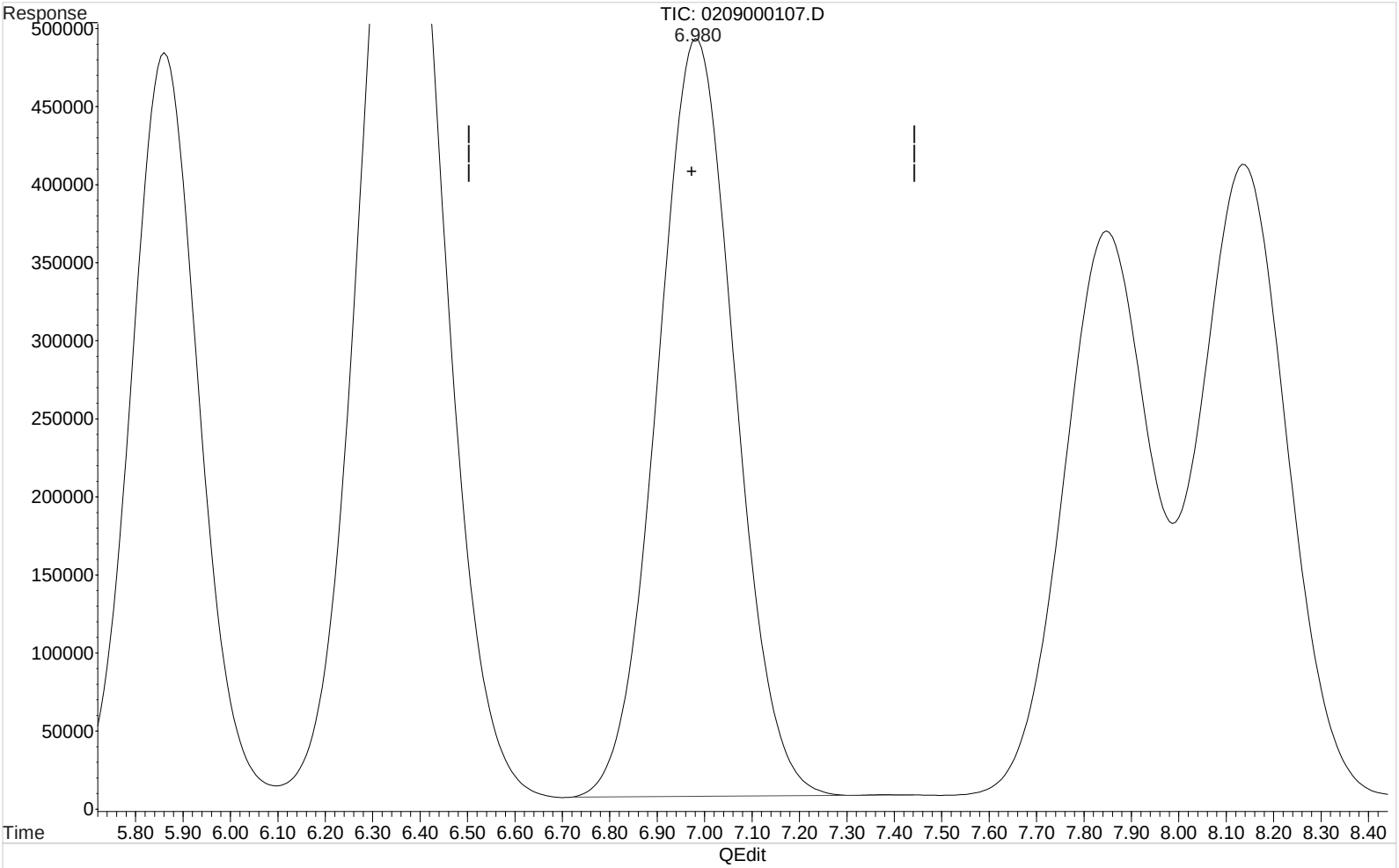
(+) = Expected Retention Time

(b) (6)
1st /13/17
2n /17/17

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(8) 3-NT (T)

6.980min 198.747 ug/L

response 5525861

Manual Integration:

Before

02/13/17

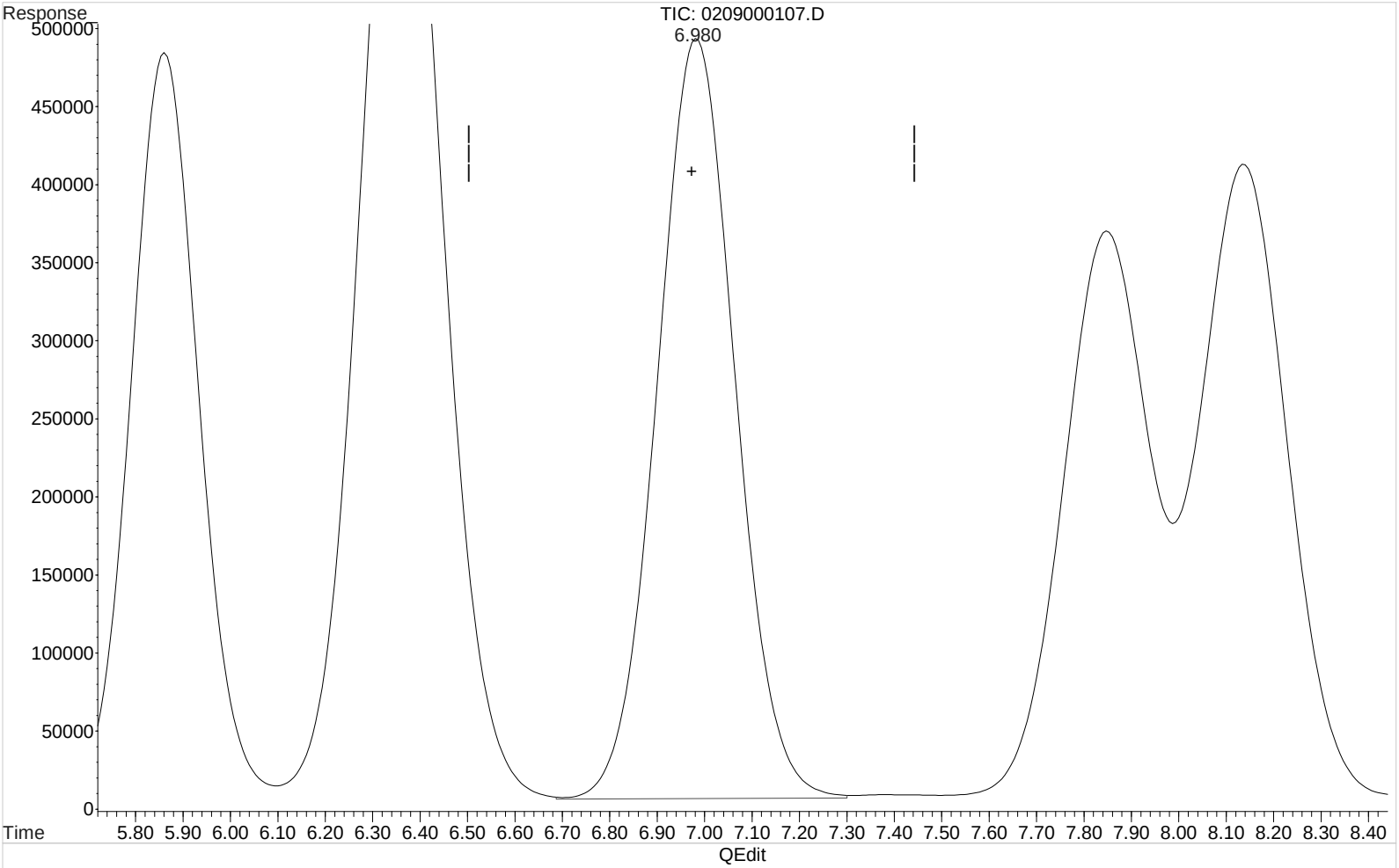
(+) = Expected Retention Time

1st (b) (6) 2/13/17
2nd [redacted] 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000107.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 17:51:05 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:01:00 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:00:37 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(8) 3-NT (T)

6.980min 200.643 ug/L m

response 5578596

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:00:13 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
11)	S	1-Chloro-3-Nitrobenzene	8.153	13230585	502.803	ug/L	m
		Target Compounds					
1)	T	HMX	2.560	7981926	511.454	ug/L	m
2)	T	RDX	2.807	9178077	515.685	ug/L	m
3)	T	Nitrobenzene	4.493	18916422	512.854	ug/L	m
4)	T	3,5-Dinitroaniline	5.253	23535159	511.057	ug/L	m
5)	T	4-Amino-2,6-DNT	4.880	16219825	516.408	ug/L	m
6)	T	2-NT	5.873	11974356	509.102	ug/L	m
7)	T	2-Amino-4,6-DNT	6.373	21311094	513.240	ug/L	m
8)	T	3-NT	6.993	14136686	510.173	ug/L	
9)	T	1,3-DNB	9.147	28581861	520.162	ug/L	
10)	T	4-NT	7.860	11759716	519.059	ug/L	m
12)	T	2,6-DNT	8.833	12553164	514.394	ug/L	m
13)	T	2,4-DNT	14.840	25979956	514.609	ug/L	
14)	T	Tetryl	13.020	14255446	487.896	ug/L	m
15)	T	1,3,5-TNB	19.840	21117484	516.366	ug/L	
16)	T	2,4,6-TNT	20.820	19559701	508.406	ug/L	

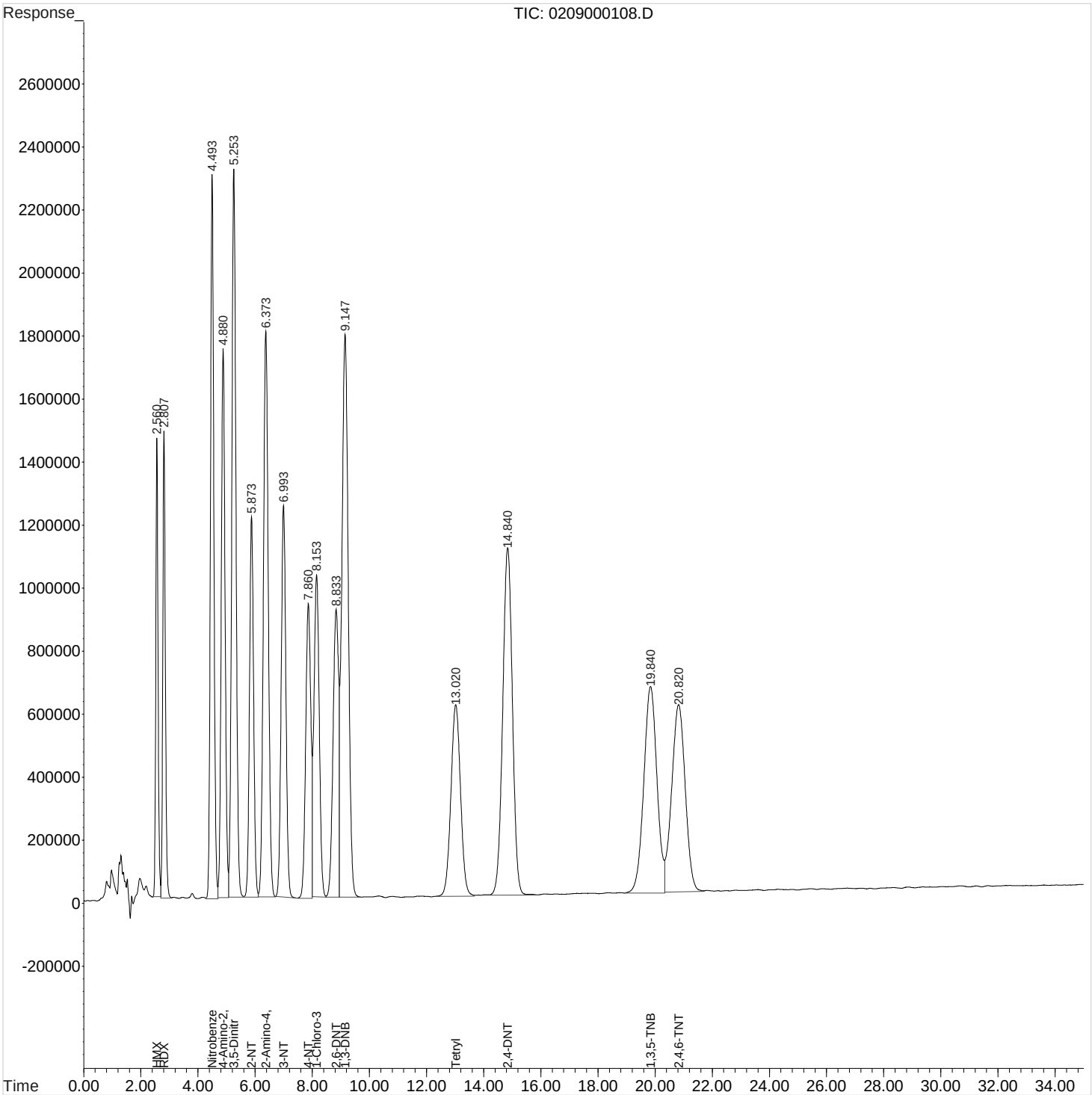
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:00:13 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

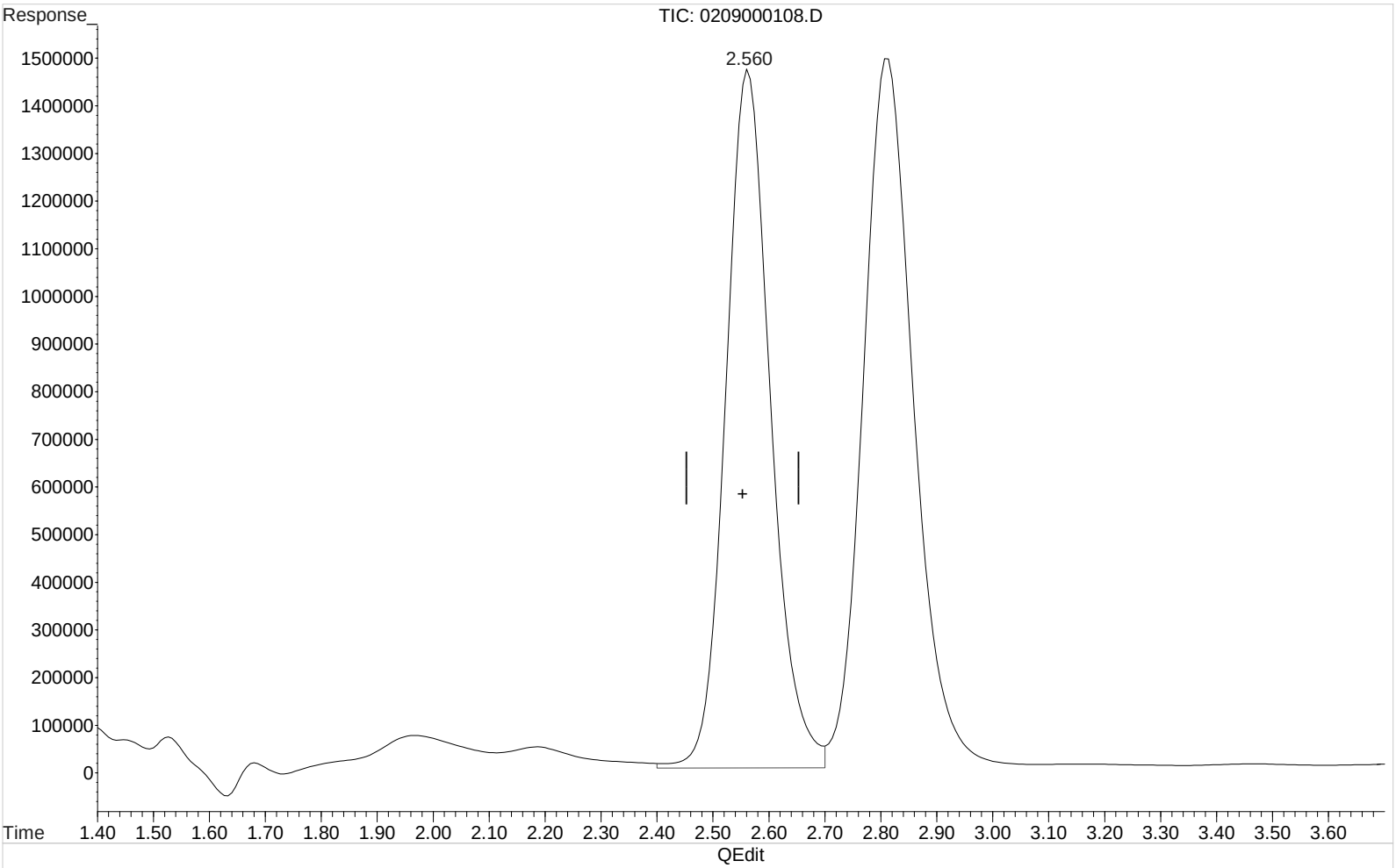


1st (b)(6) 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.560min 523.210 ug/L

response 8165394

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

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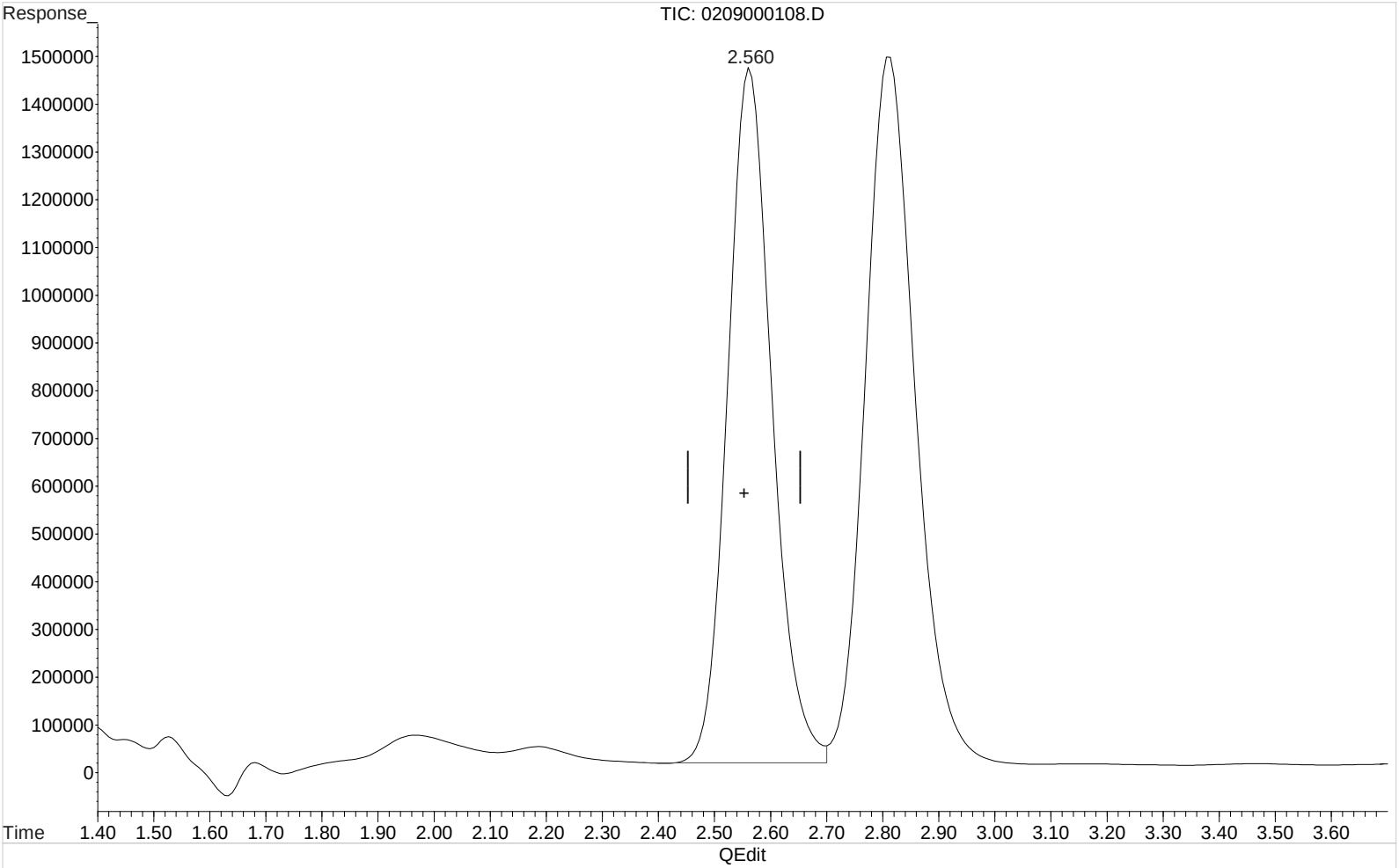
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.560min 511.454 ug/L m

response 7981926

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b) (6)
1st /13/17
2nd /17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
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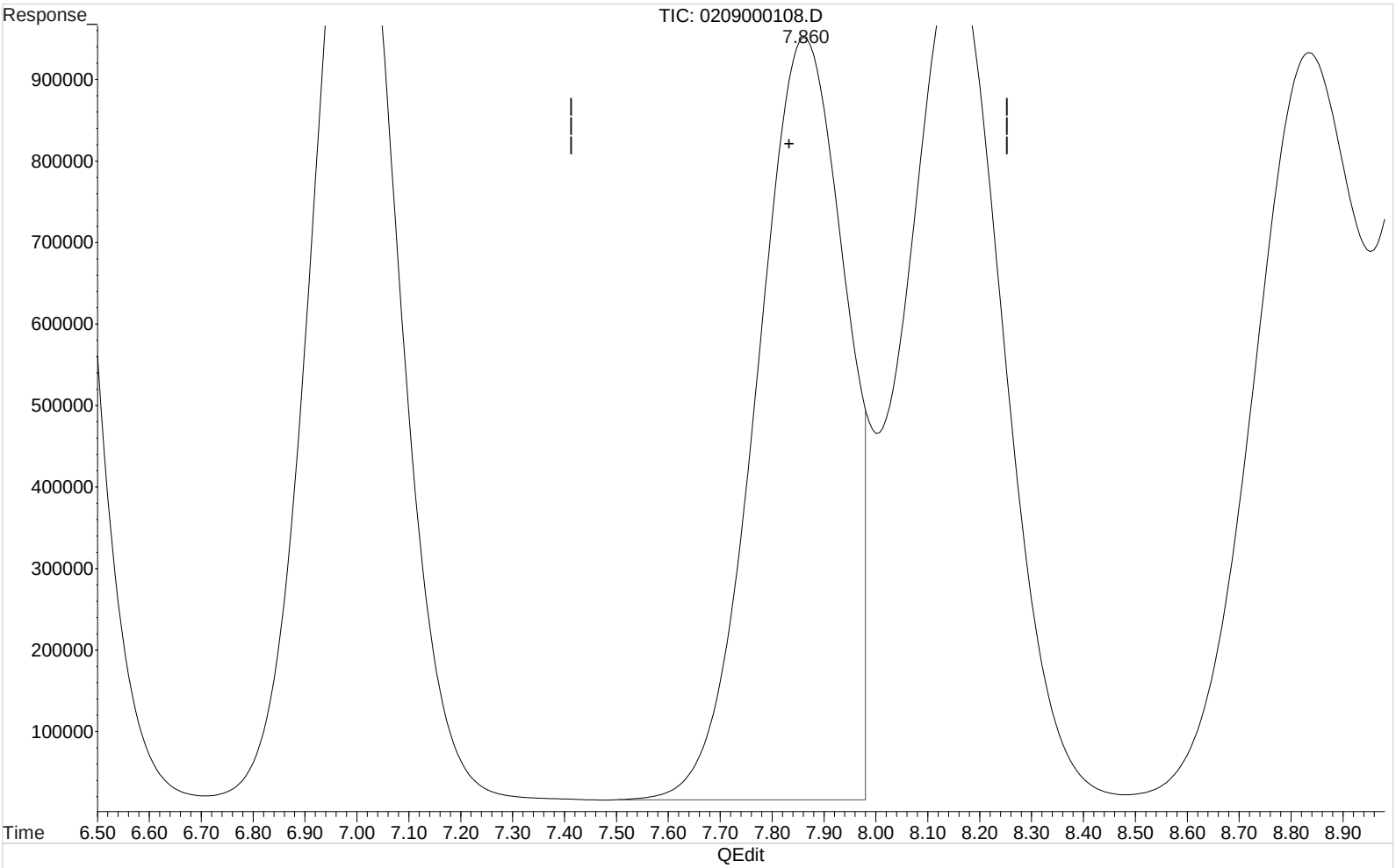
Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.860min 494.354 ug/L

response 11200008

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

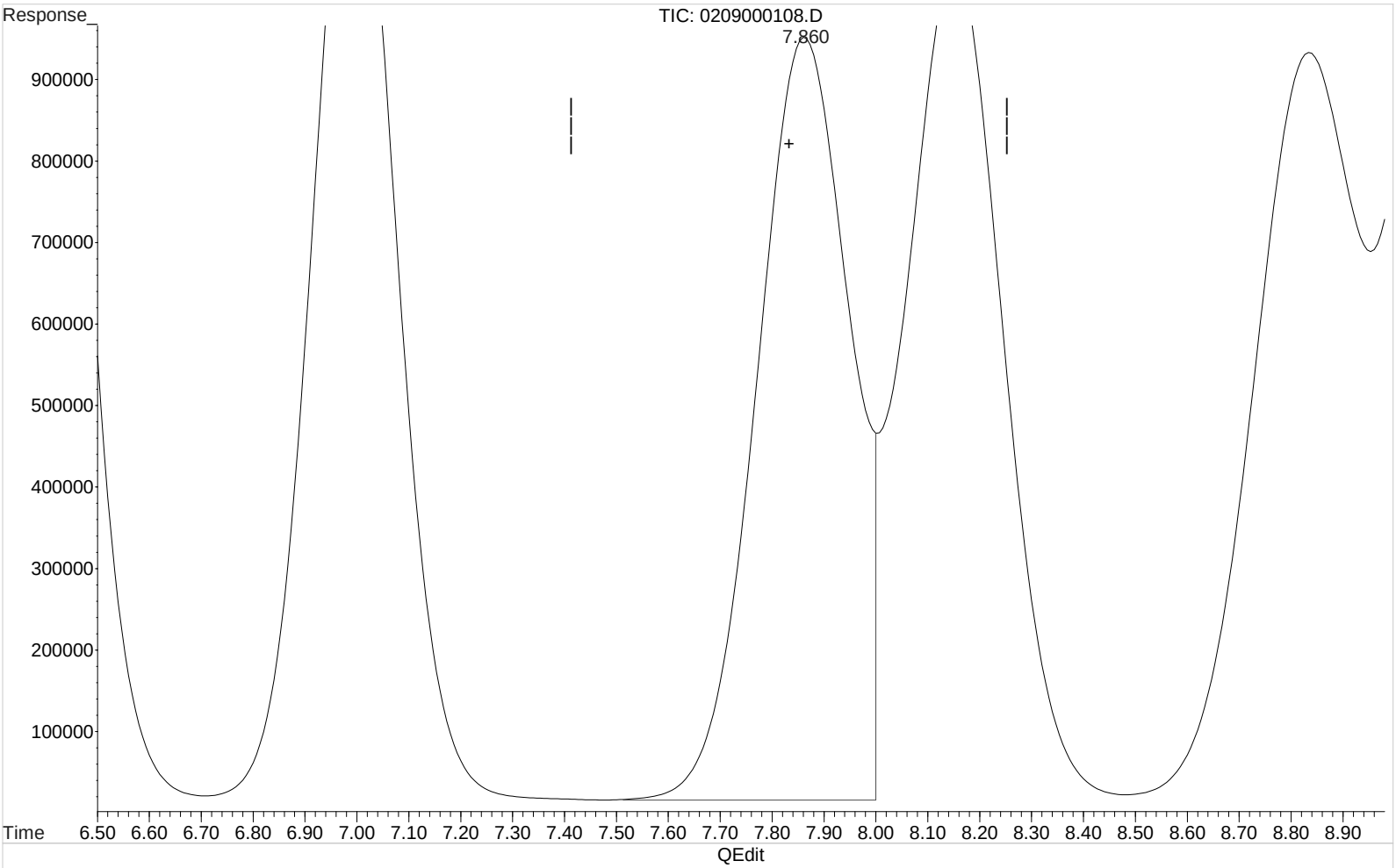
Quantitation Report (Qedit)

(b) (6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.860min 519.059 ug/L m

response 11759716

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

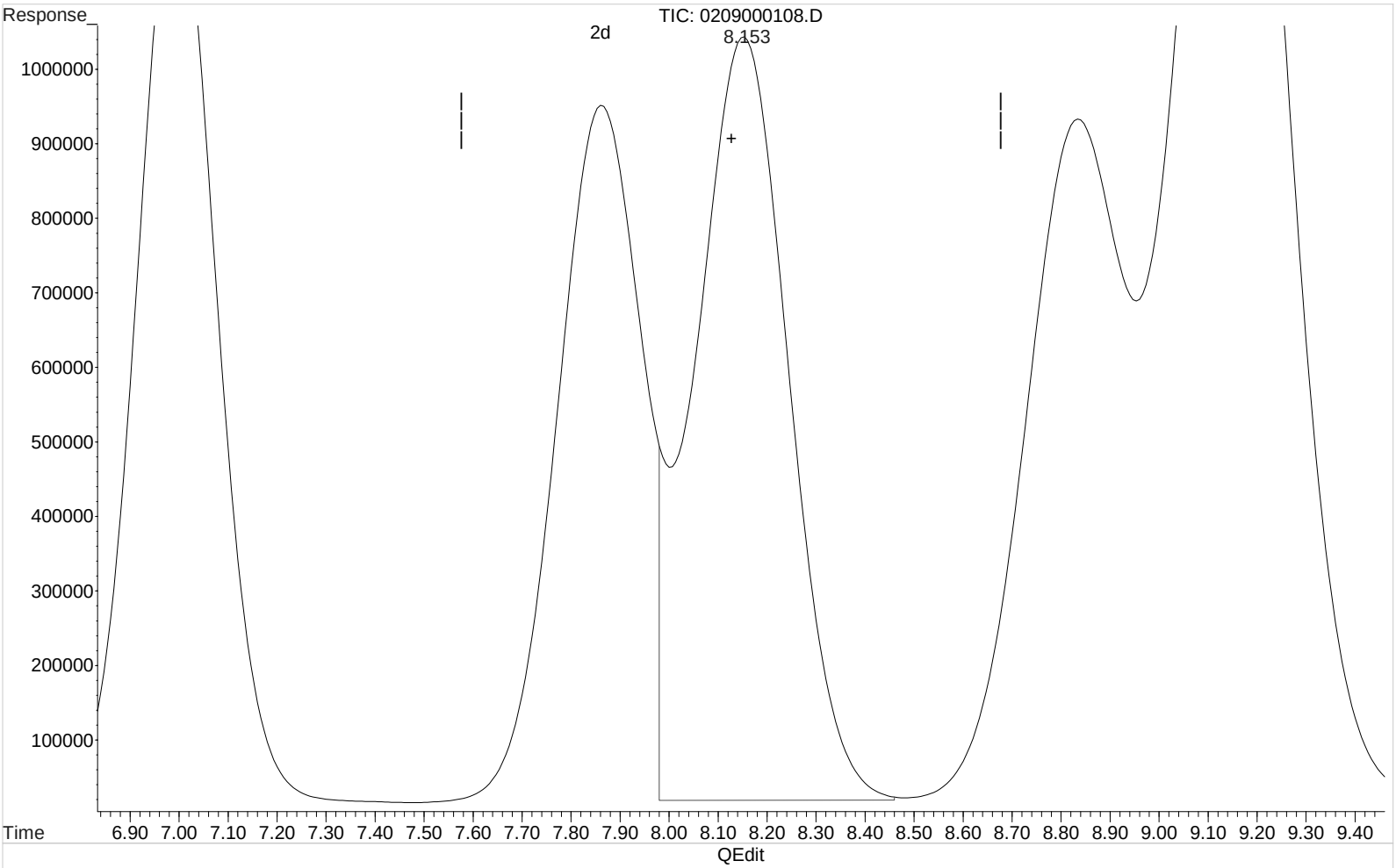
Quantitation Report (Qedit)

(b) (6)
1st 3/17
2nd 7/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(11) 1-Chloro-3-Nitrobenzene (S)

8.153min 524.076 ug/L

response 13790355

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

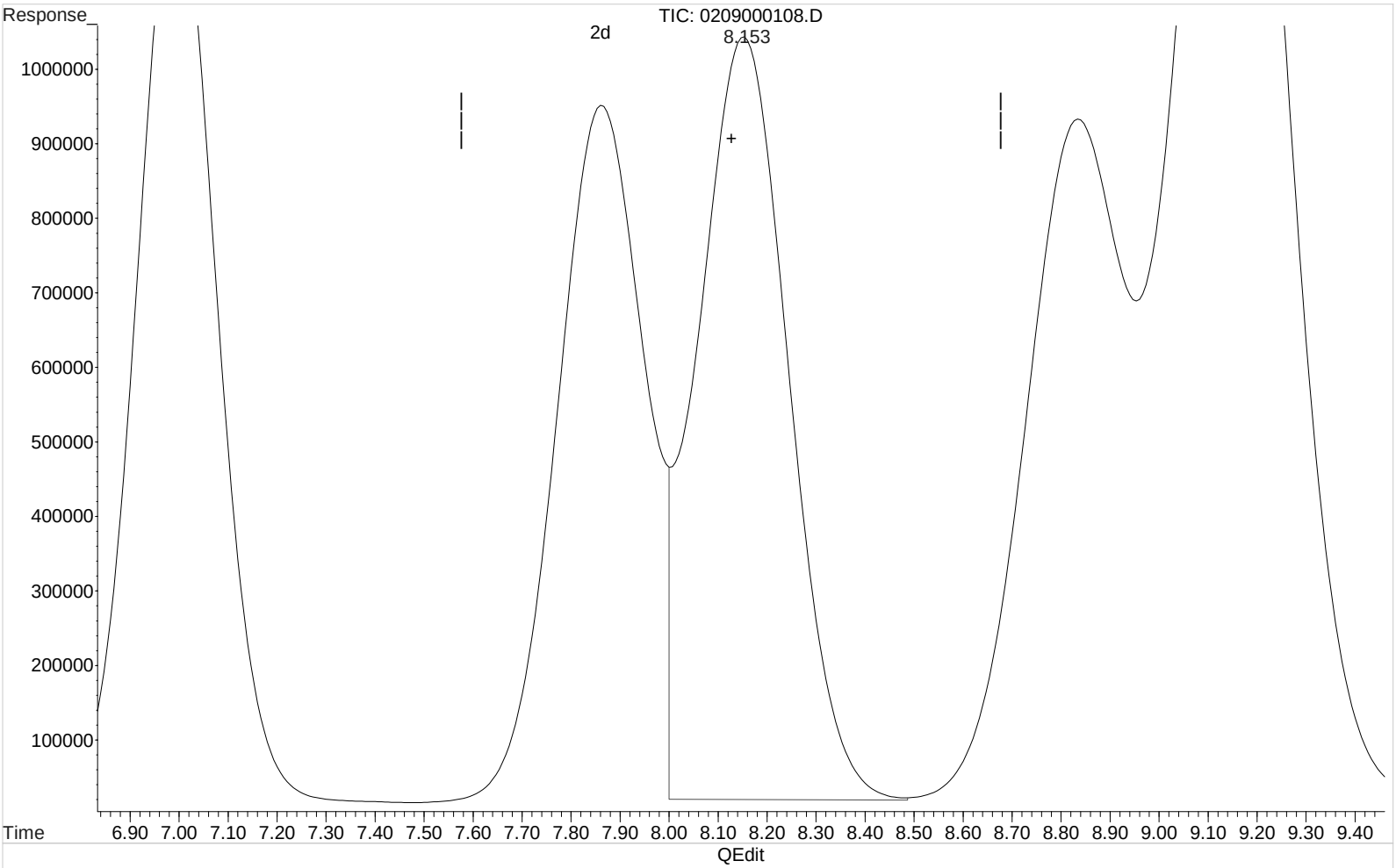
Quantitation Report (Qedit)

(b)
1st (6) 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(11) 1-Chloro-3-Nitrobenzene (S)

8.153min 502.803 ug/L m

response 13230585

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

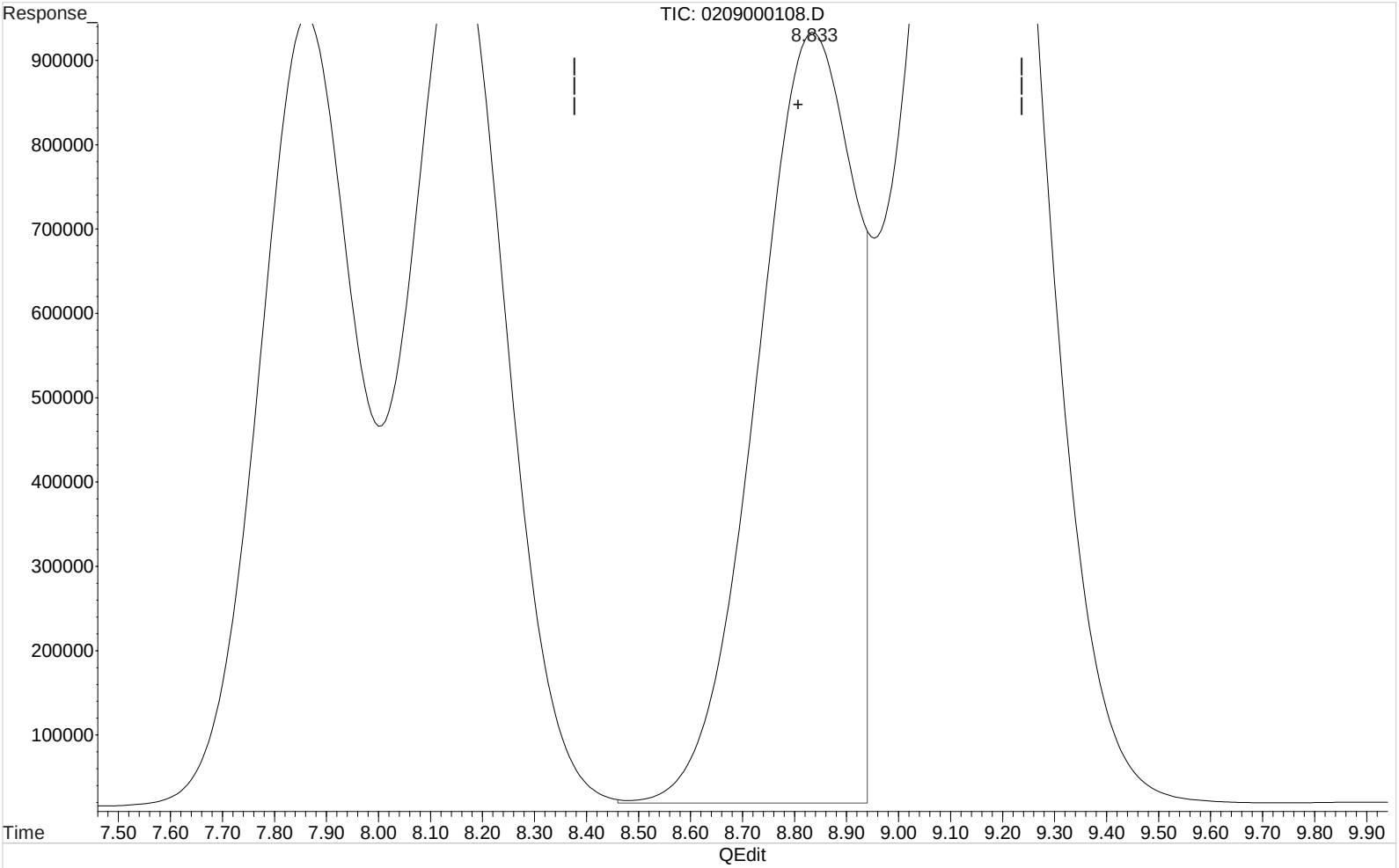
Quantitation Report (Qedit)

(b) (6)
1st 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(12) 2,6-DNT (T)

8.833min 492.505 ug/L

response 12018989

Manual Integration:

Before

02/13/17

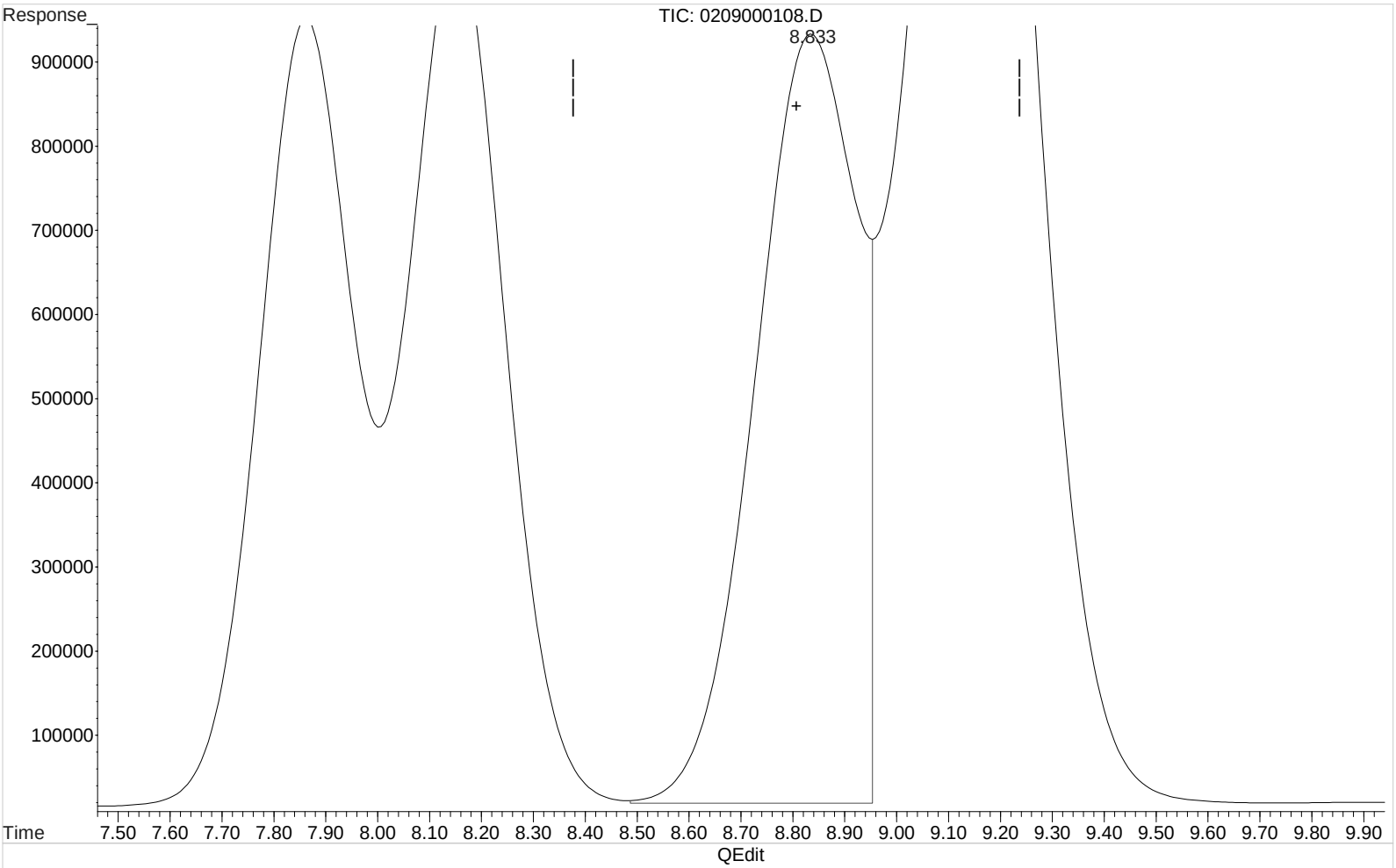
(+) = Expected Retention Time

(b) (6)
1st /13/17
2nd /17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(12) 2,6-DNT (T)

8.833min 514.394 ug/L m

response 12553164

Manual Integration:

After

BLC

02/13/17

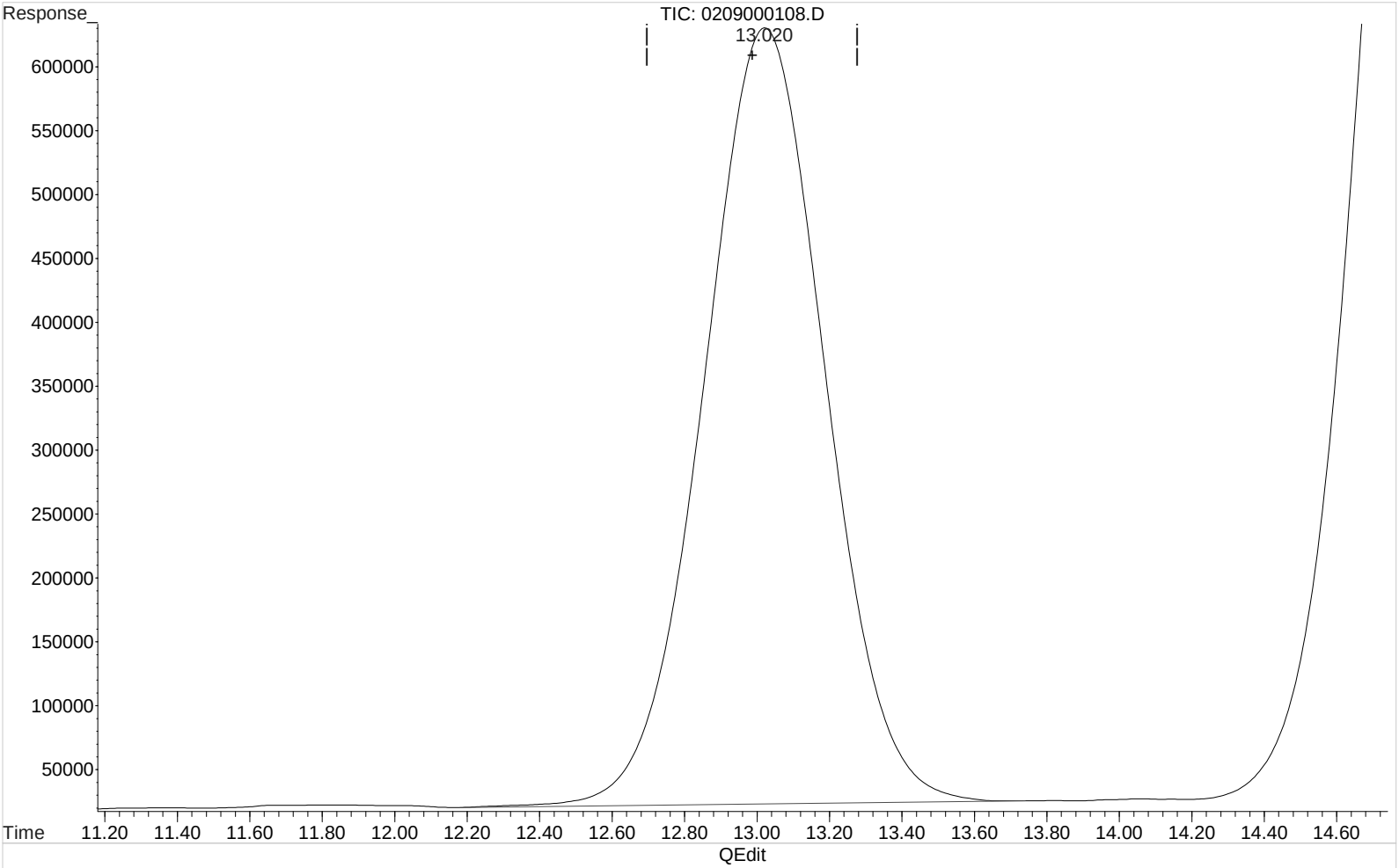
(+) = Expected Retention Time

(b) (6)
1st 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:59:29 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(14) Tetryl (T)

13.020min 484.451 ug/L

response 14154790

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

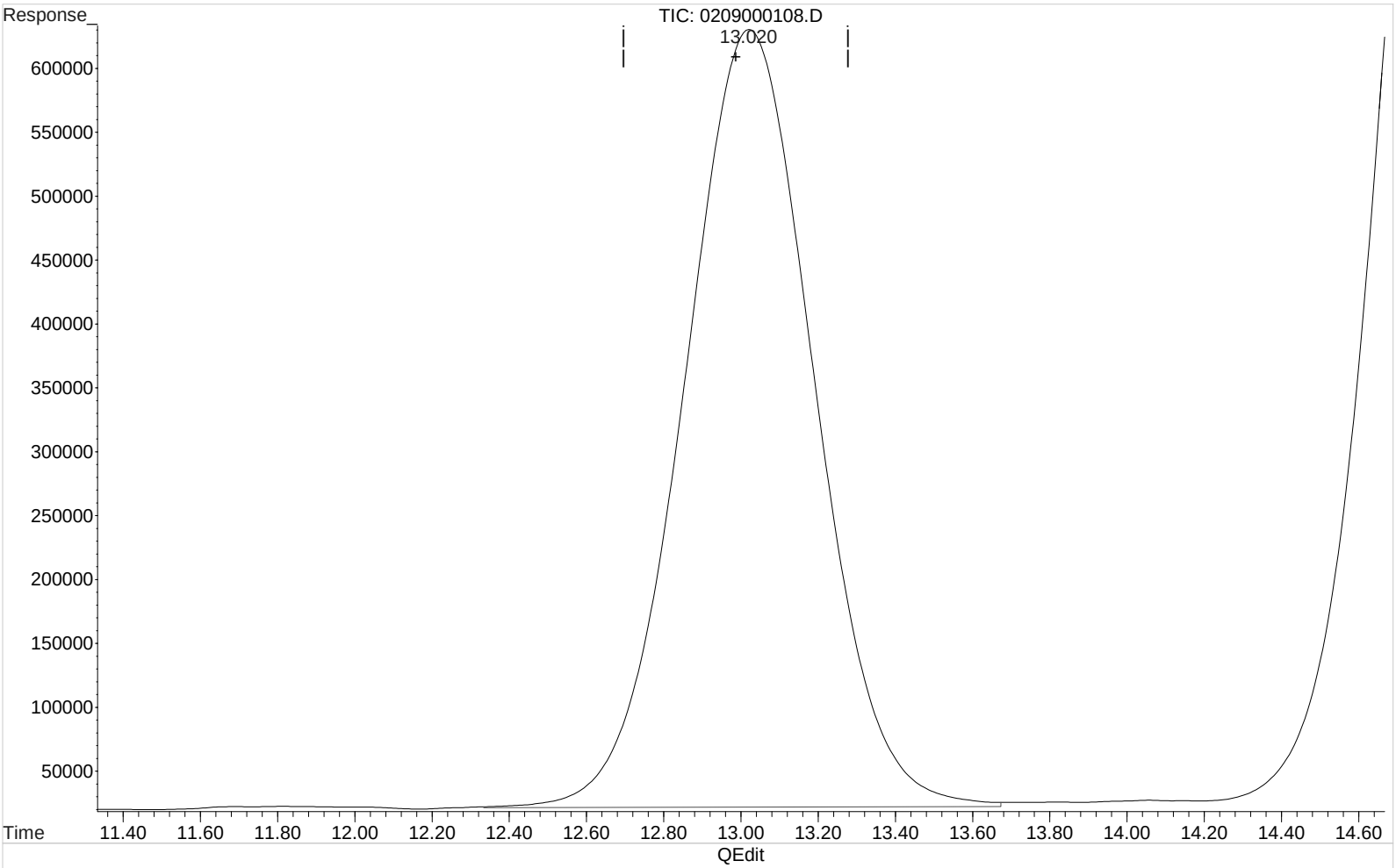
Quantitation Report (Qedit)

(b) (6)
1st 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:00:13 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(14) Tetryl (T)

13.020min 487.896 ug/L m

response 14255446

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

(b)(6)

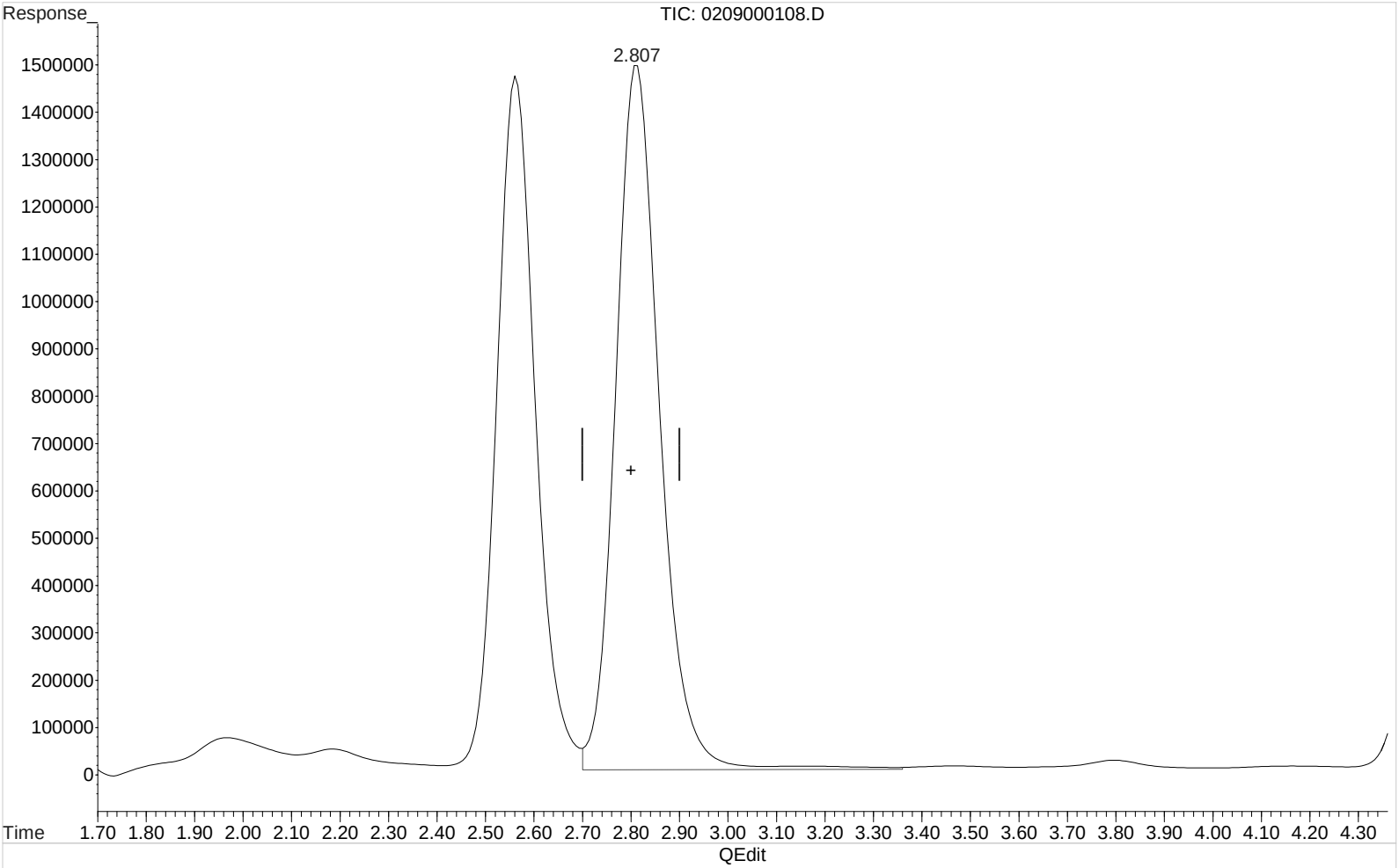
1st 2/13/17

2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.807min 528.530 ug/L

response 9406681

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
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Quant Title : CAL15047
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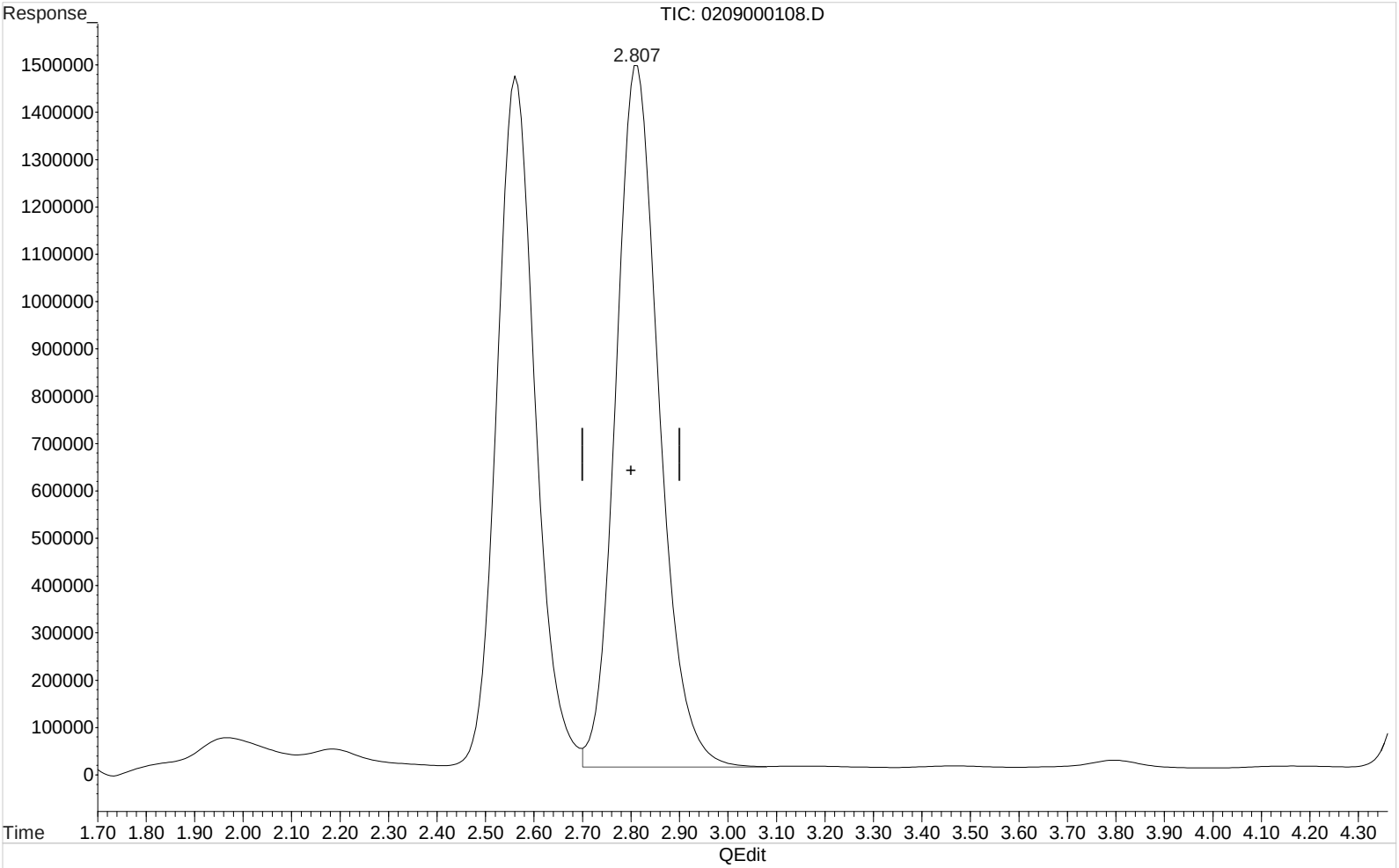
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.807min 515.685 ug/L m

response 9178077

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b) (6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
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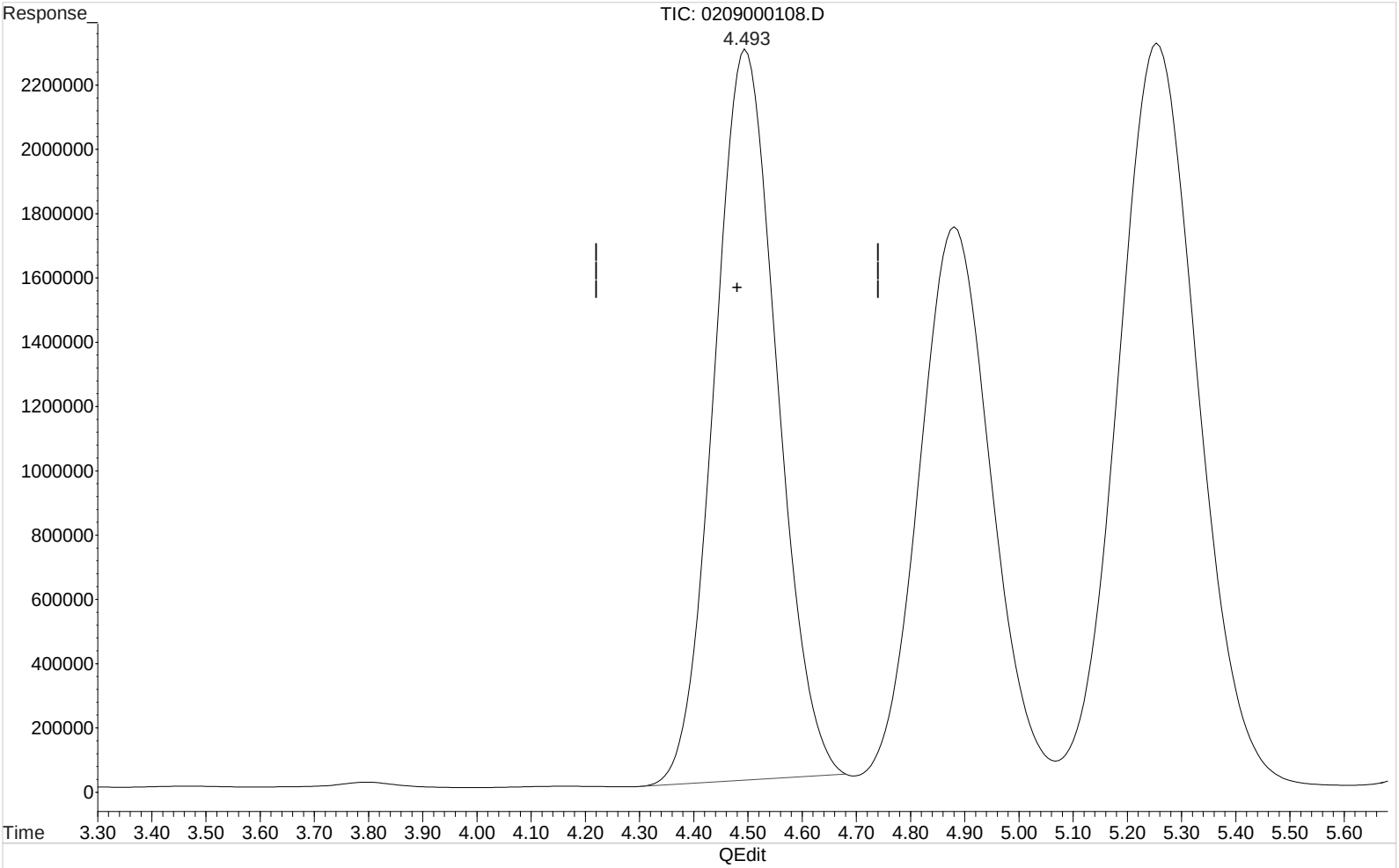
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.493min 497.348 ug/L

response 18344510

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

1st (b) (6) 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
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Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
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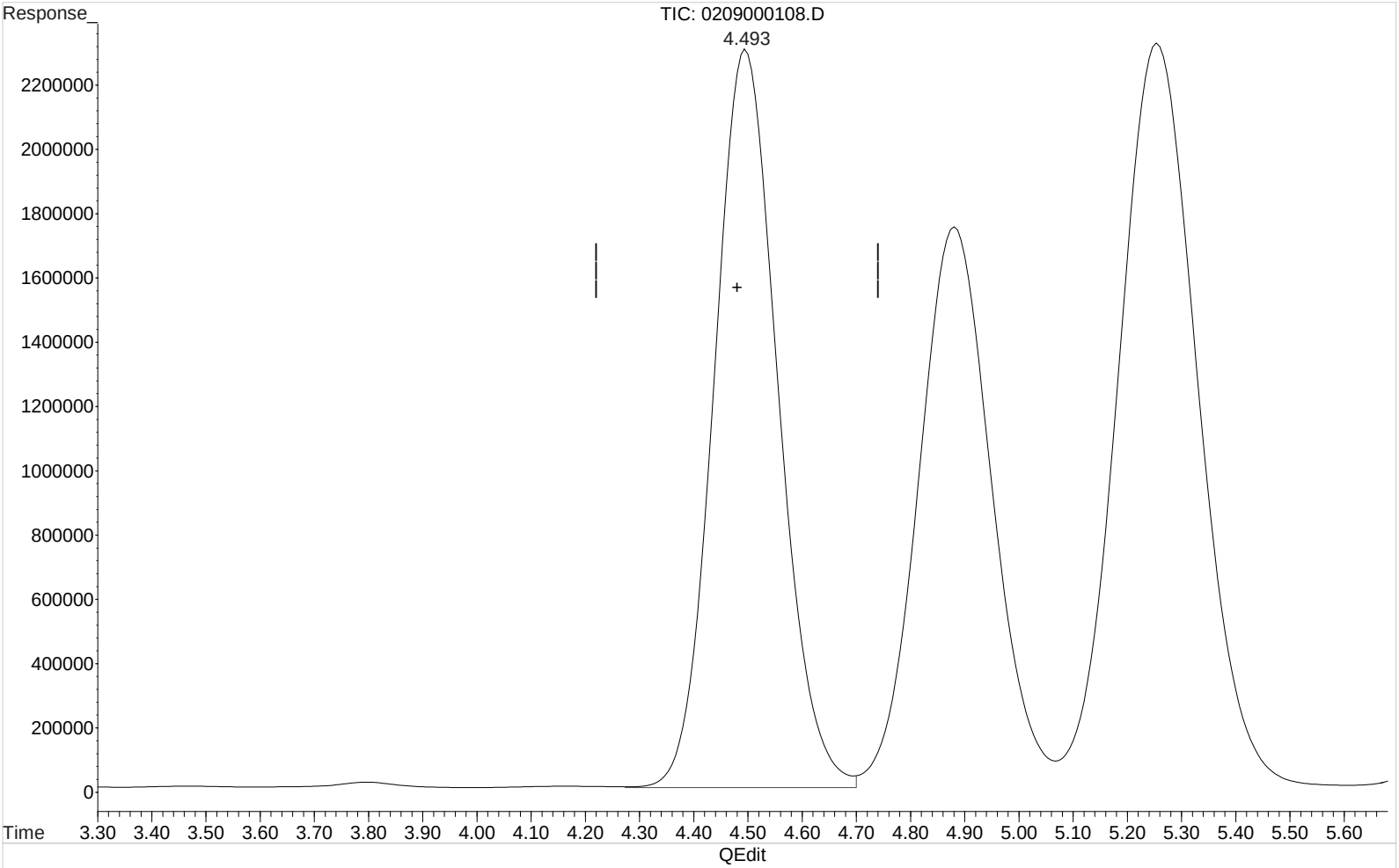
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(3) Nitrobenzene (T)

4.493min 512.854 ug/L m

response 18916422

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b) (6)
1st 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
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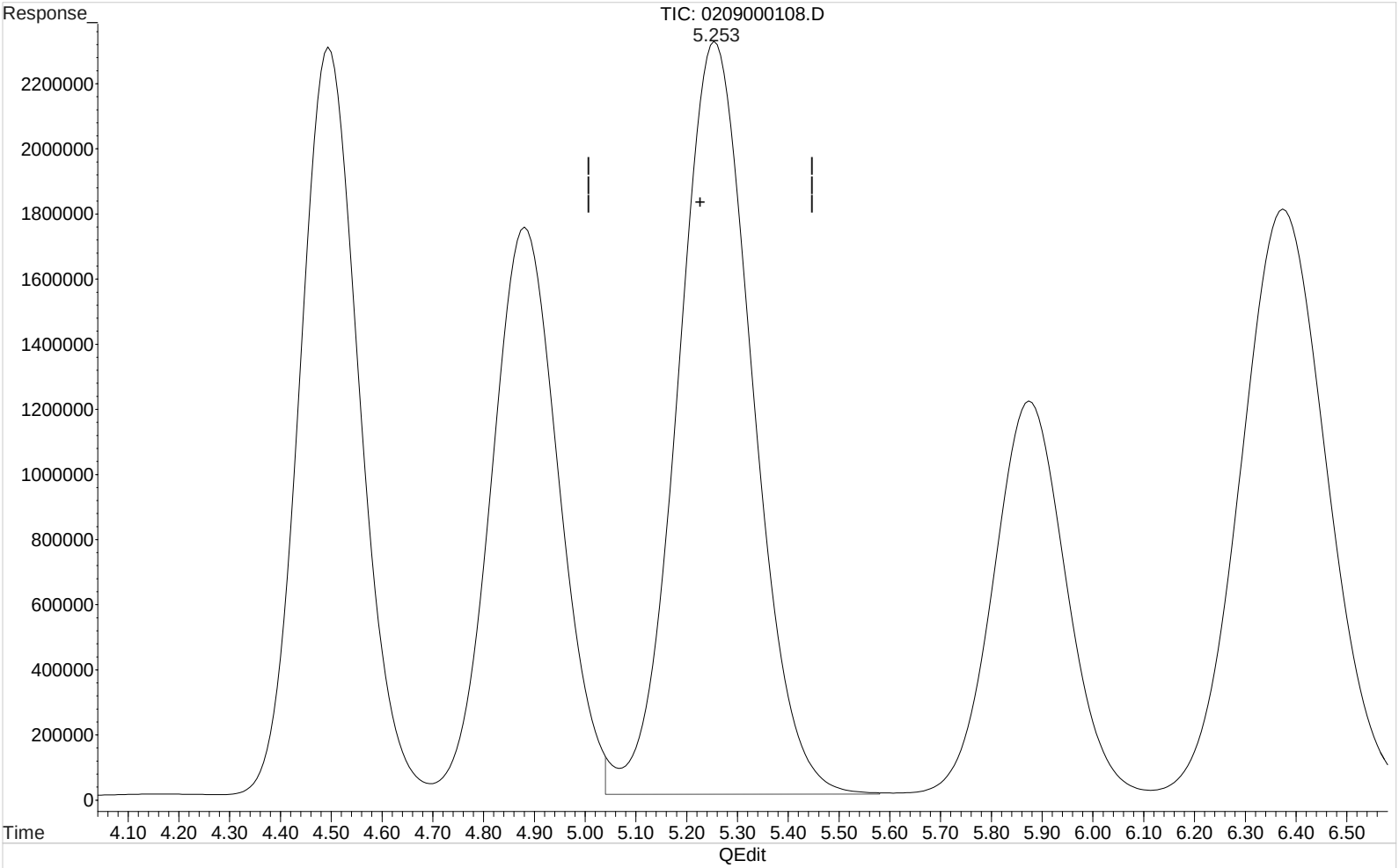
Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(4) 3,5-Dinitroaniline (T)

5.253min 515.473 ug/L

response 23738537

Manual Integration:

Before

02/13/17

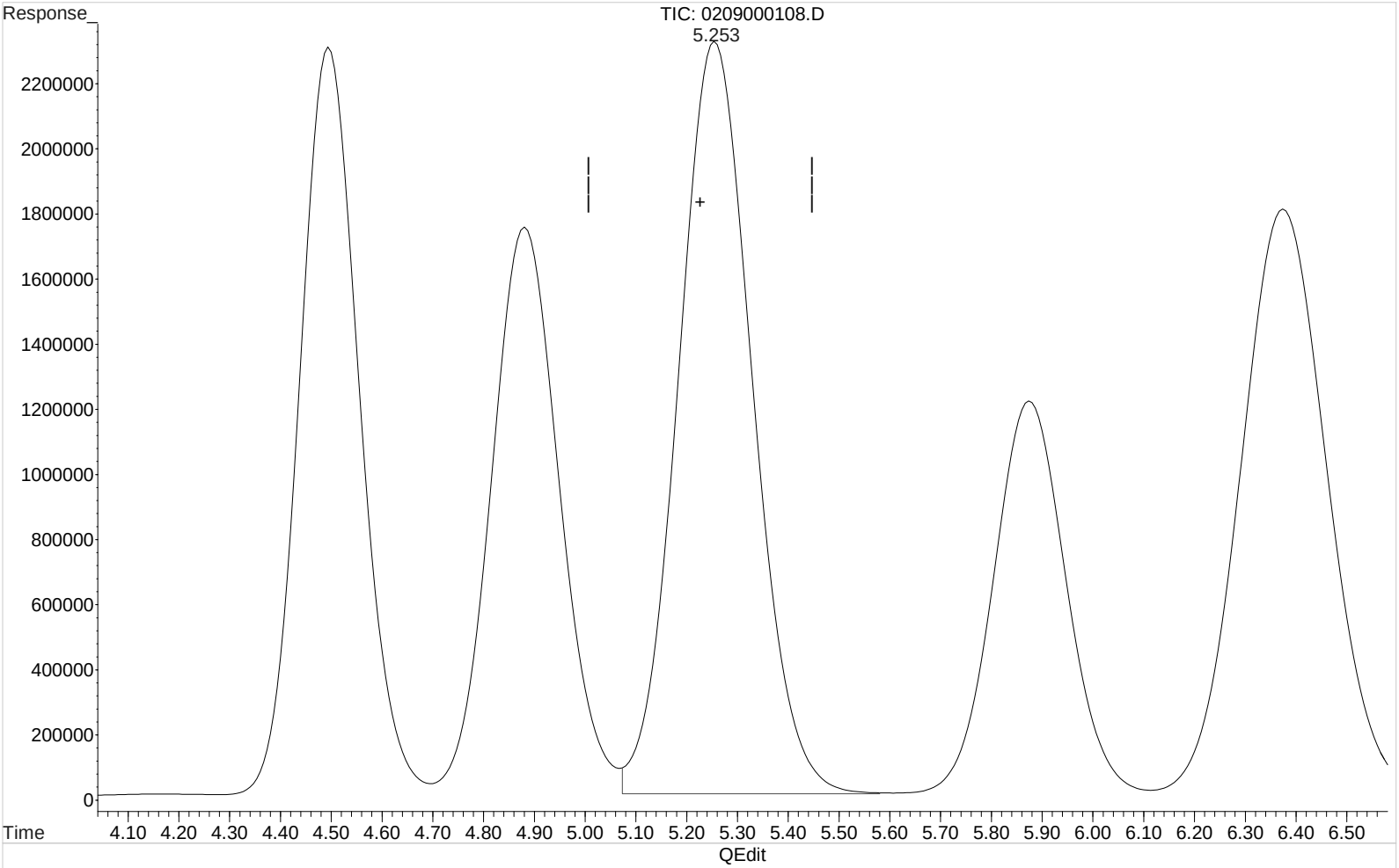
(+) = Expected Retention Time

(b)(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(4) 3,5-Dinitroaniline (T)

5.253min 511.057 ug/L m

response 23535159

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

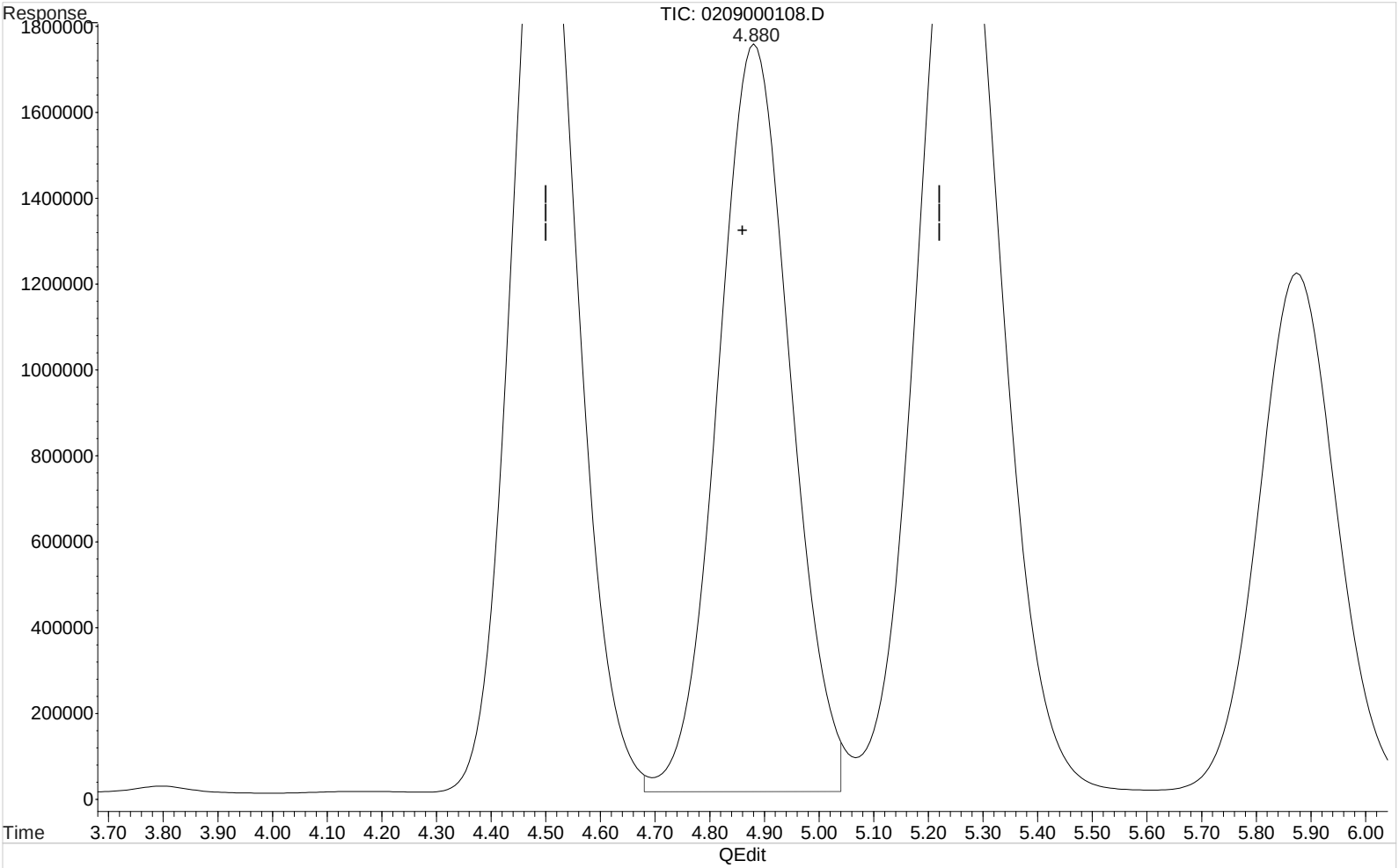
Quantitation Report (Qedit)

(b) (6)
1st 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(5) 4-Amino-2,6-DNT (T)

4.880min 512.609 ug/L

response 16100487

Manual Integration:

Before

02/13/17

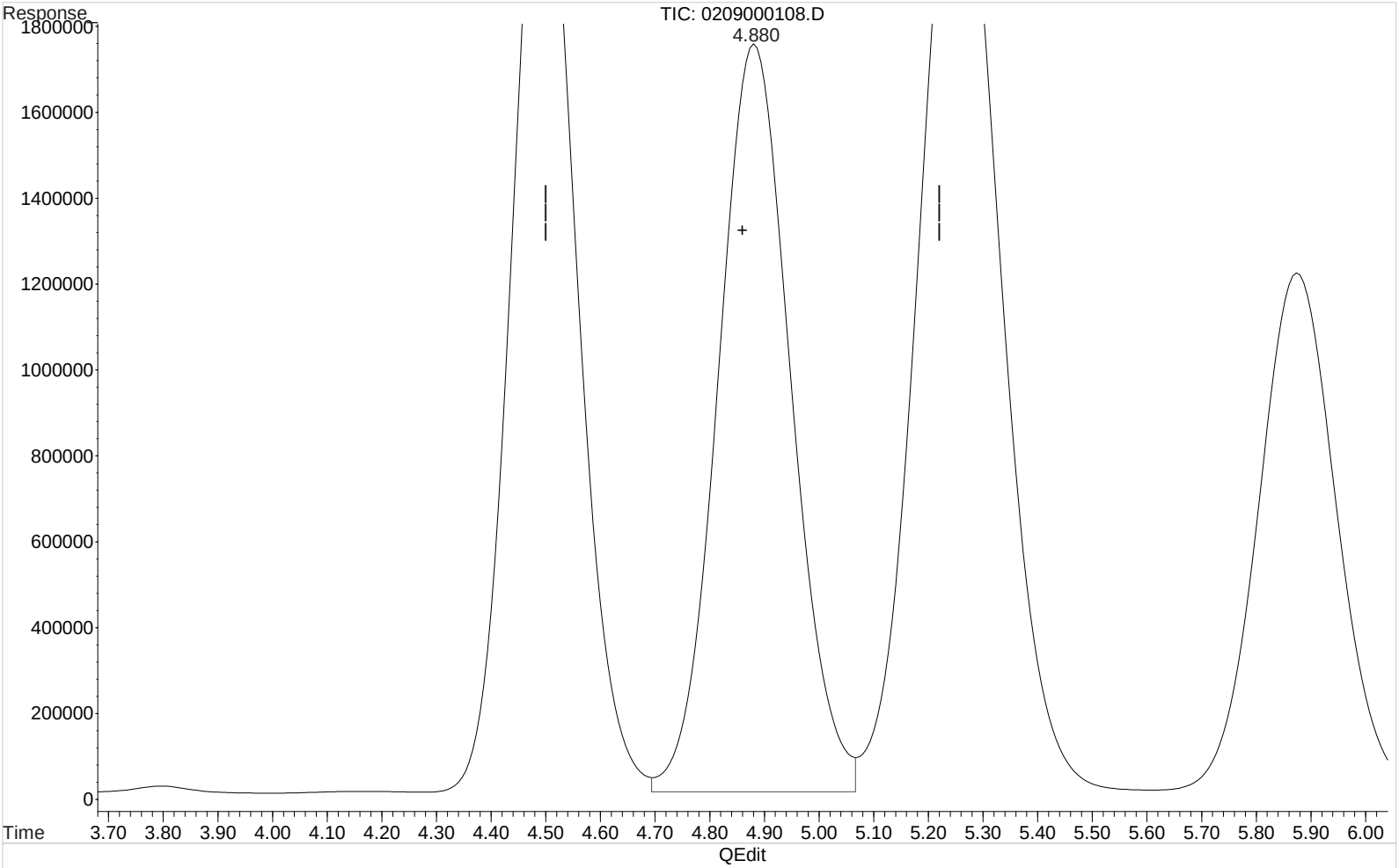
(+) = Expected Retention Time

(b)
(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(5) 4-Amino-2,6-DNT (T)

4.880min 516.408 ug/L m

response 16219825

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

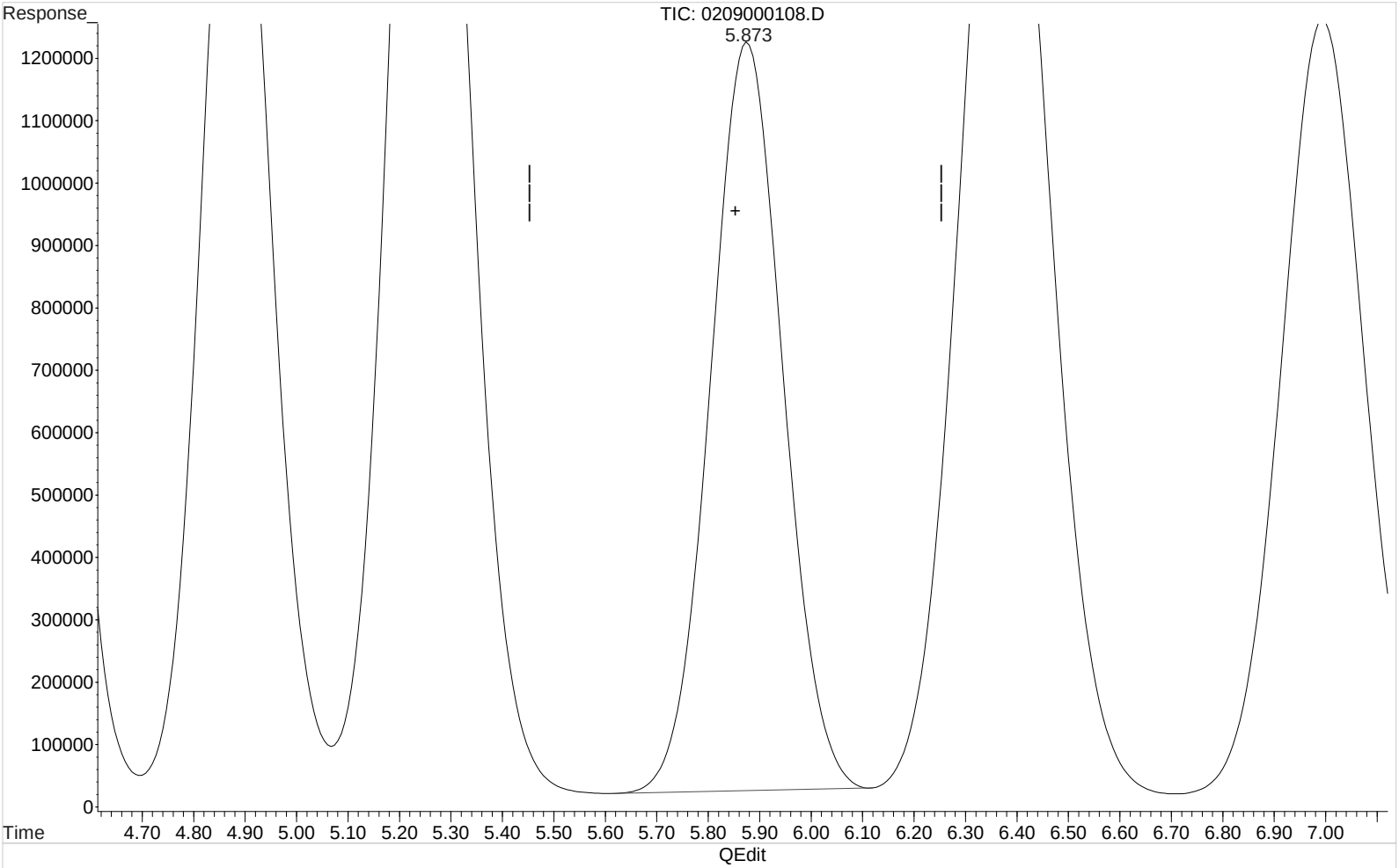
Quantitation Report (Qedit)

(b) (6)
1st 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.873min 500.725 ug/L

response 11777330

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

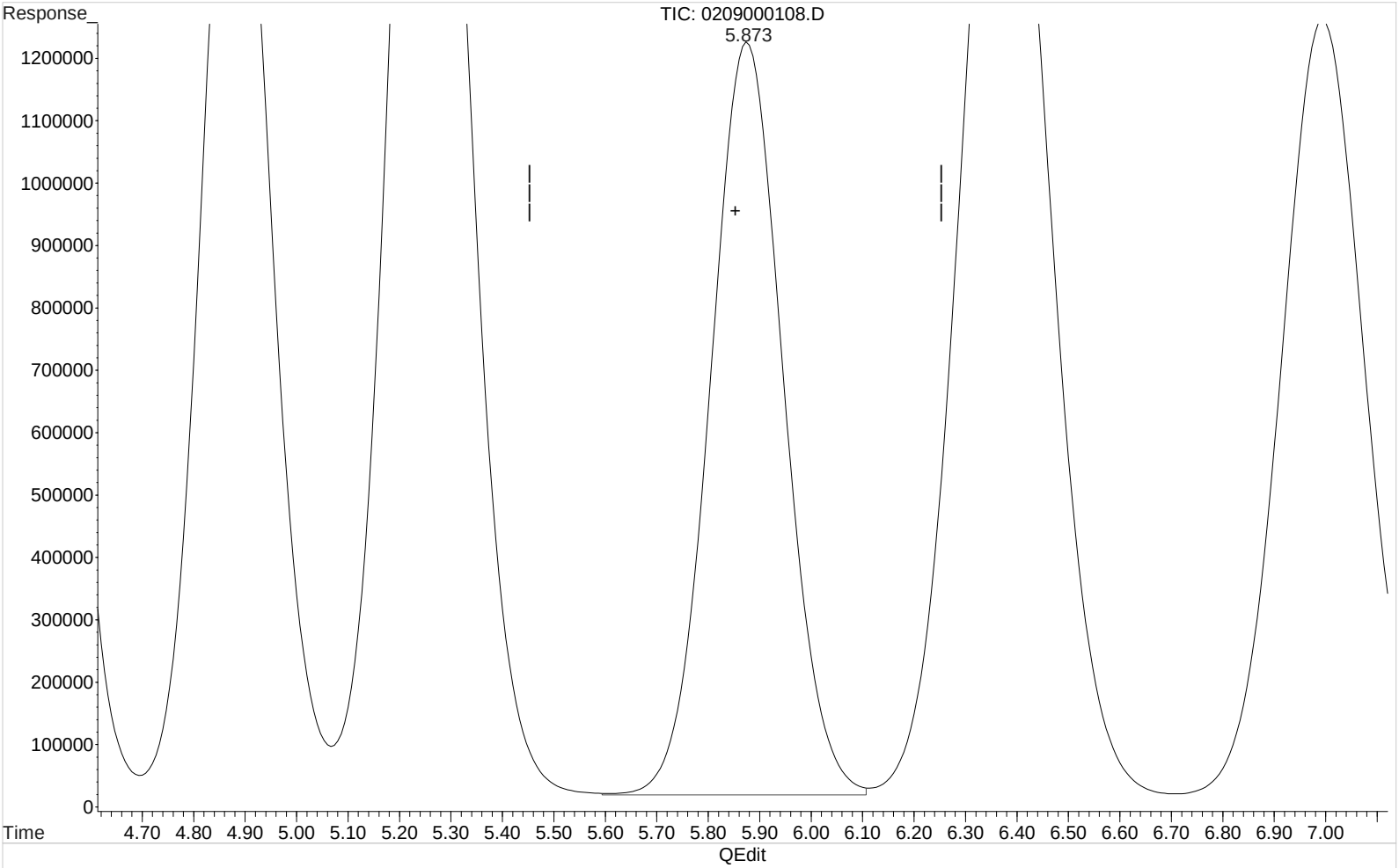
Quantitation Report (Qedit)

(b) (6)
1st 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.873min 509.102 ug/L m

response 11974356

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

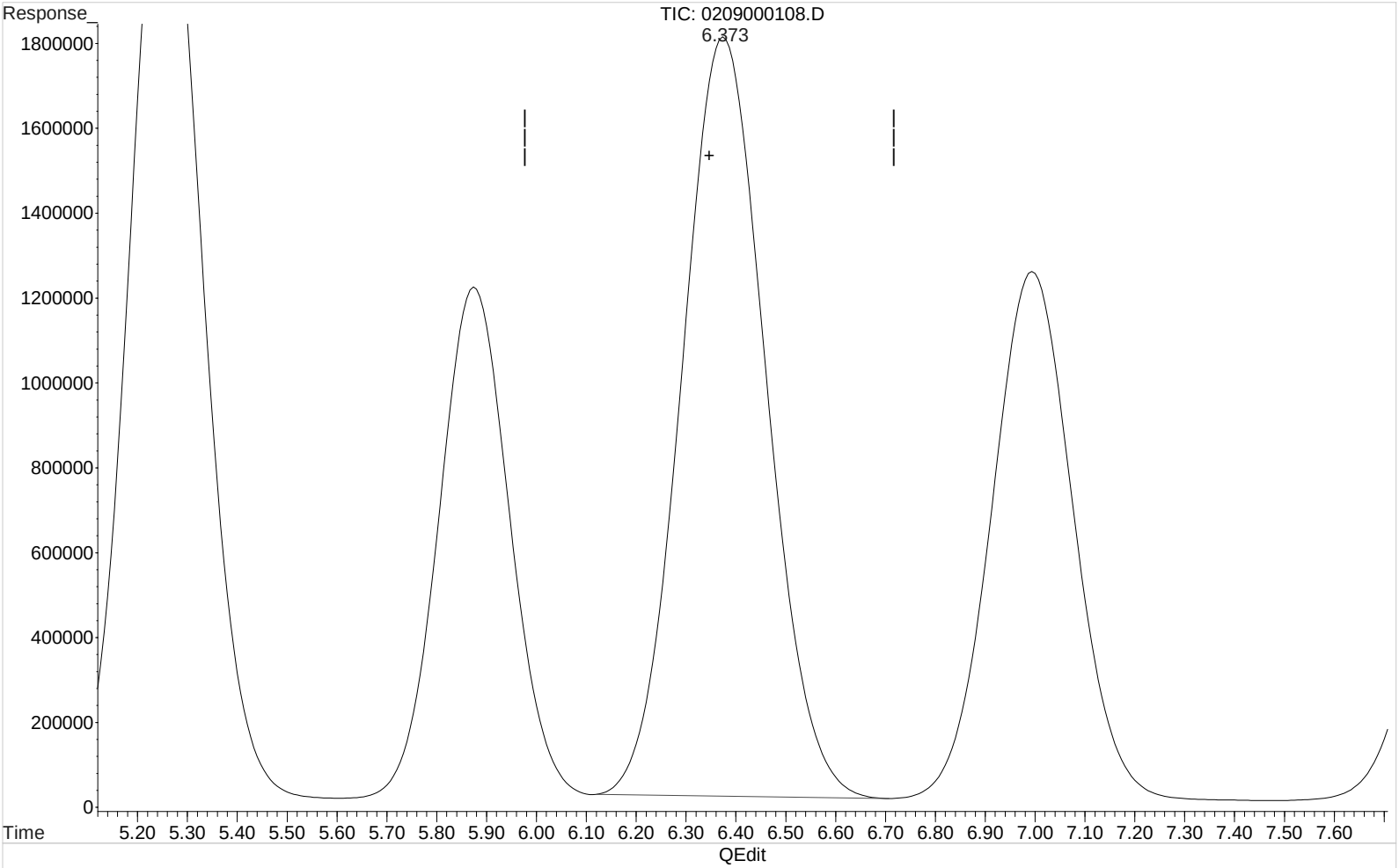
Quantitation Report (Qedit)

(b) (6)
1st 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.373min 508.092 ug/L

response 21097350

Manual Integration:

Before

02/13/17

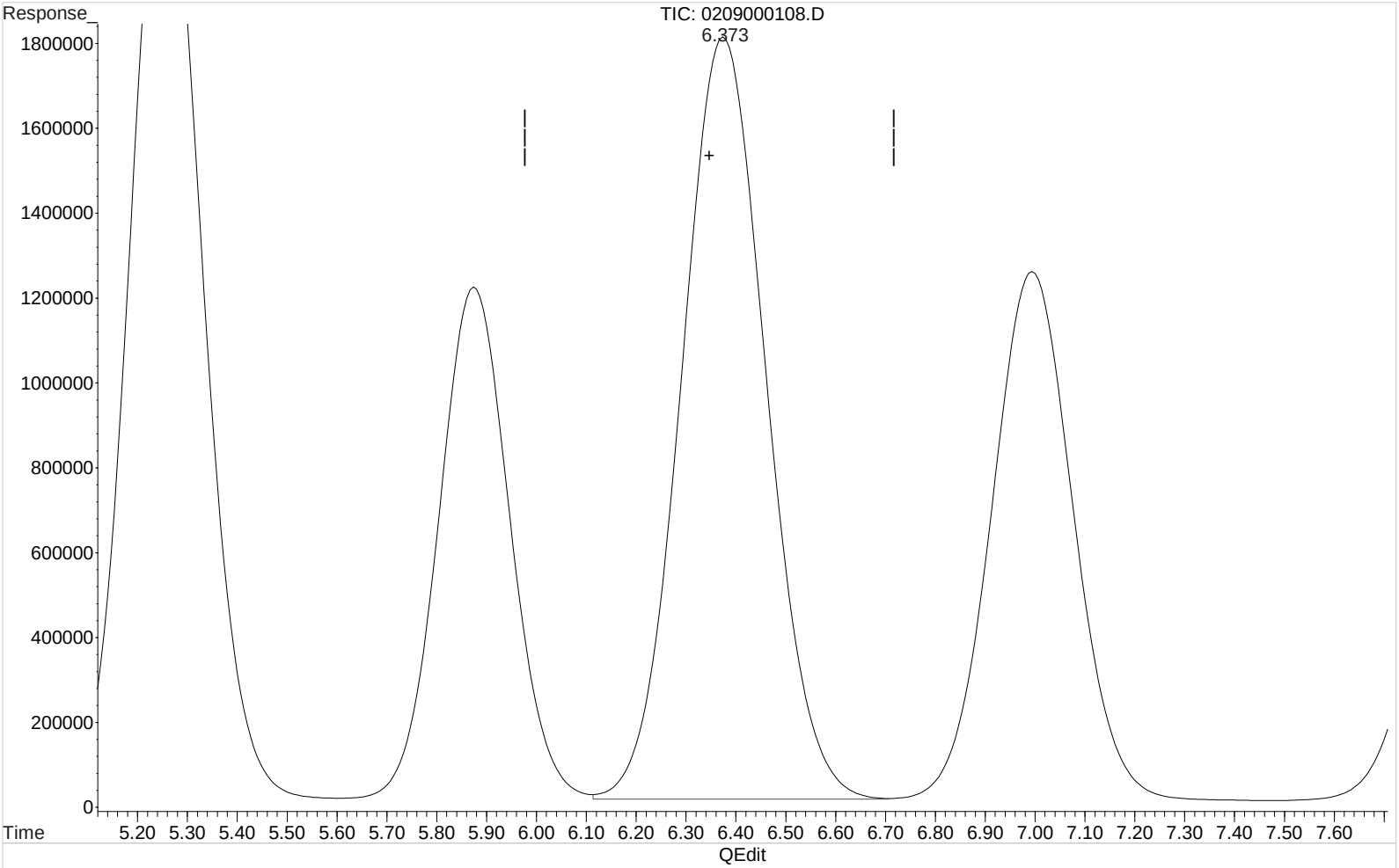
(+) = Expected Retention Time

(b) (6)
1st /13/17
2nd /17/17

Data File : J:\LC08\Data\020917XC-254\0209000108.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 18:27:56 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:55:27 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:54:12 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.373min 513.240 ug/L m

response 21311094

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:53:53 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
11)	S	1-Chloro-3-Nitrobenzene	8.140	26673138	1017.135	ug/L	
		Target Compounds					
1)	T	HMX	2.560	15754141	1011.865	ug/L	m
2)	T	RDX	2.807	18282213	1034.253	ug/L	
3)	T	Nitrobenzene	4.487	37153839	1009.140	ug/L	m
4)	T	3,5-Dinitroaniline	5.247	46792847	1020.192	ug/L	
5)	T	4-Amino-2,6-DNT	4.873	32003465	1023.774	ug/L	
6)	T	2-NT	5.867	23562112	1002.211	ug/L	m
7)	T	2-Amino-4,6-DNT	6.360	42381135	1025.978	ug/L	m
8)	T	3-NT	6.987	27875884	1007.514	ug/L	
9)	T	1,3-DNB	9.133	55586286	1014.562	ug/L	
10)	T	4-NT	7.847	22827299	1009.477	ug/L	
12)	T	2,6-DNT	8.820	24988433	1030.126	ug/L	
13)	T	2,4-DNT	14.813	51254762	1019.136	ug/L	
14)	T	Tetryl	13.000	28722923	978.901	ug/L	
15)	T	1,3,5-TNB	19.813	41471658	1017.646	ug/L	
16)	T	2,4,6-TNT	20.800	39028968	1018.142	ug/L	

(f)=RT Delta > 1/2 Window (m)=manual int.

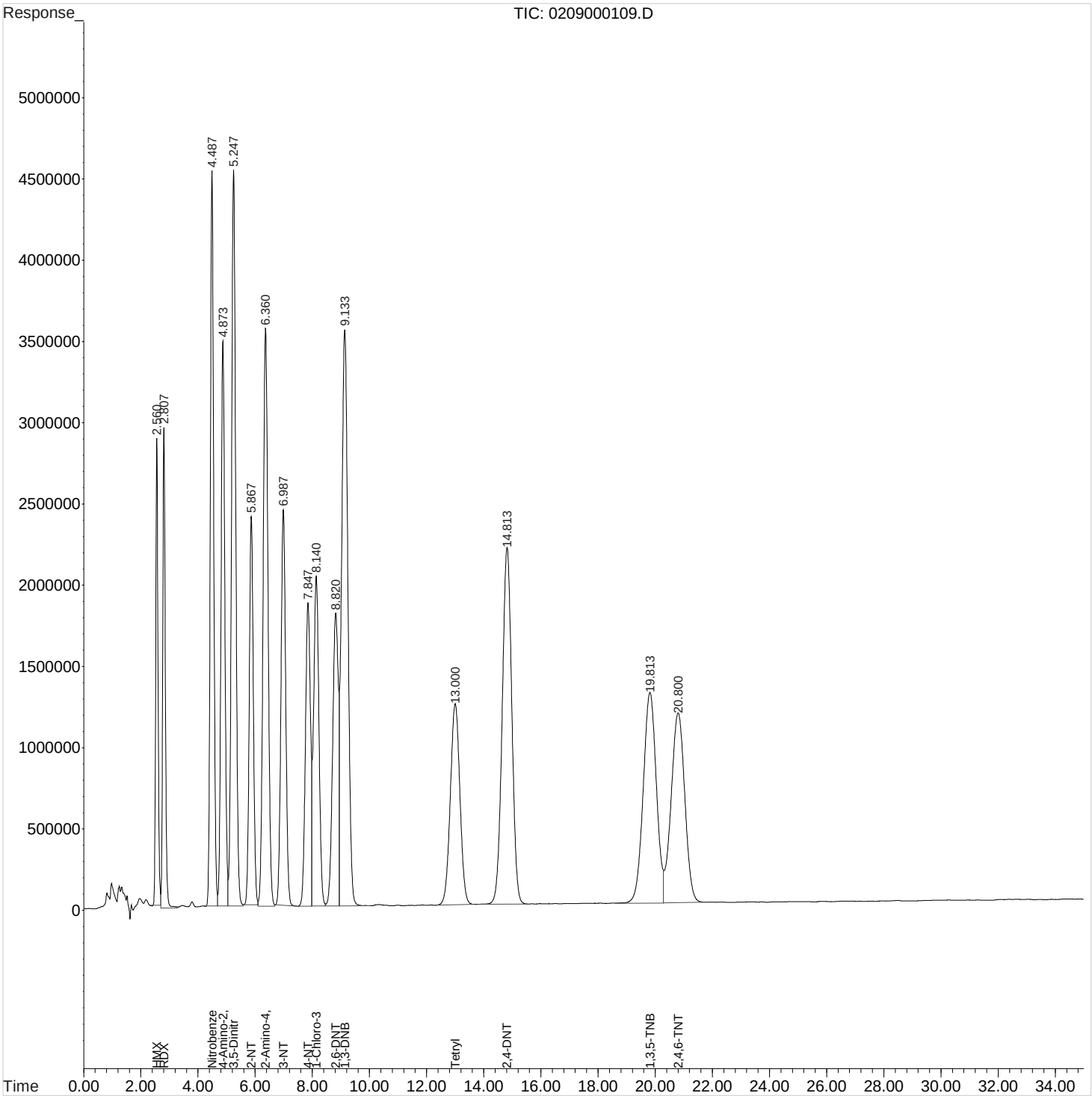
Quantitation Report (QT Reviewed)

1st (b) (6) 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:53:53 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

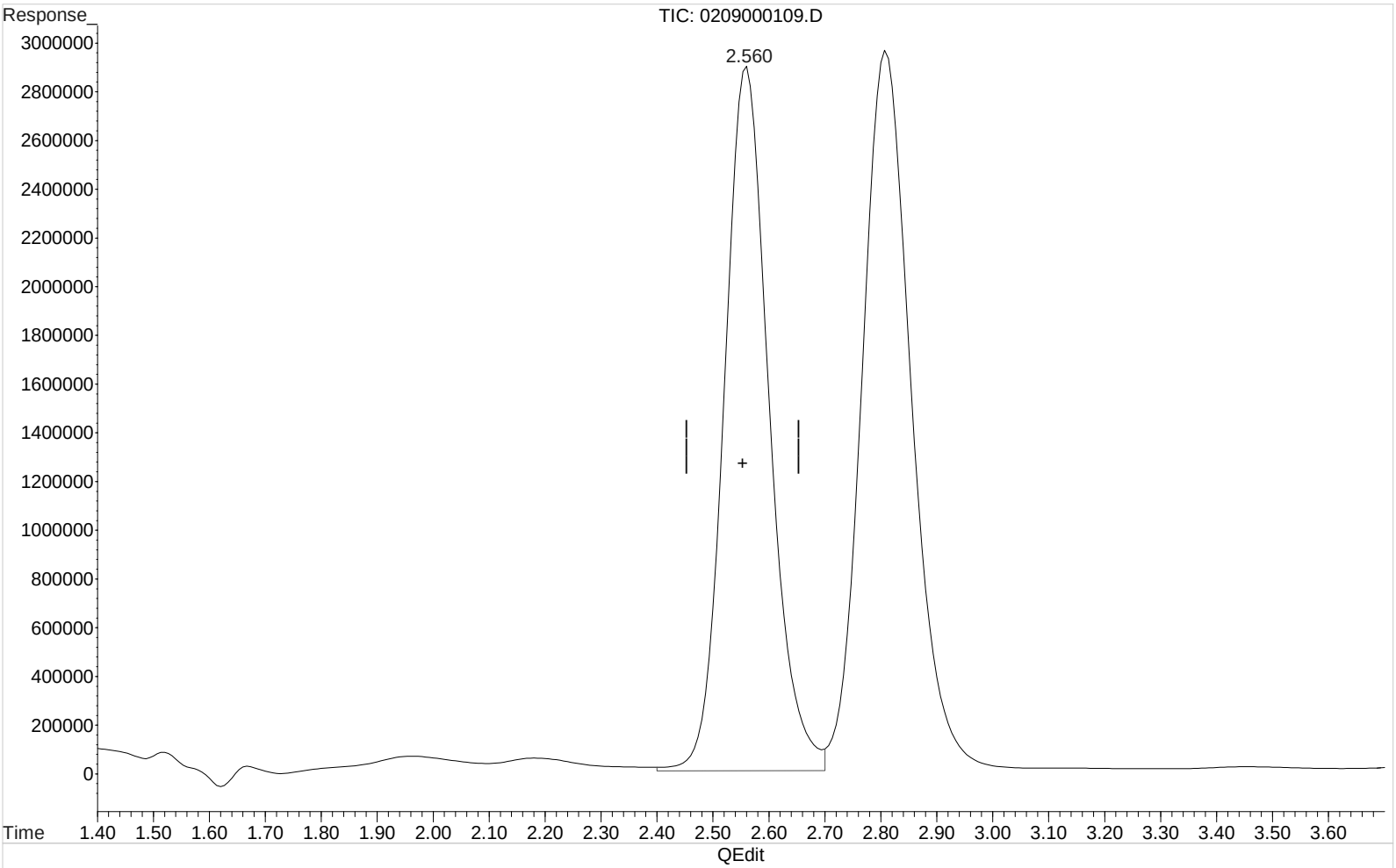


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:45:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(1) HMX (T)

2.560min 1035.968 ug/L

response 16129417

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

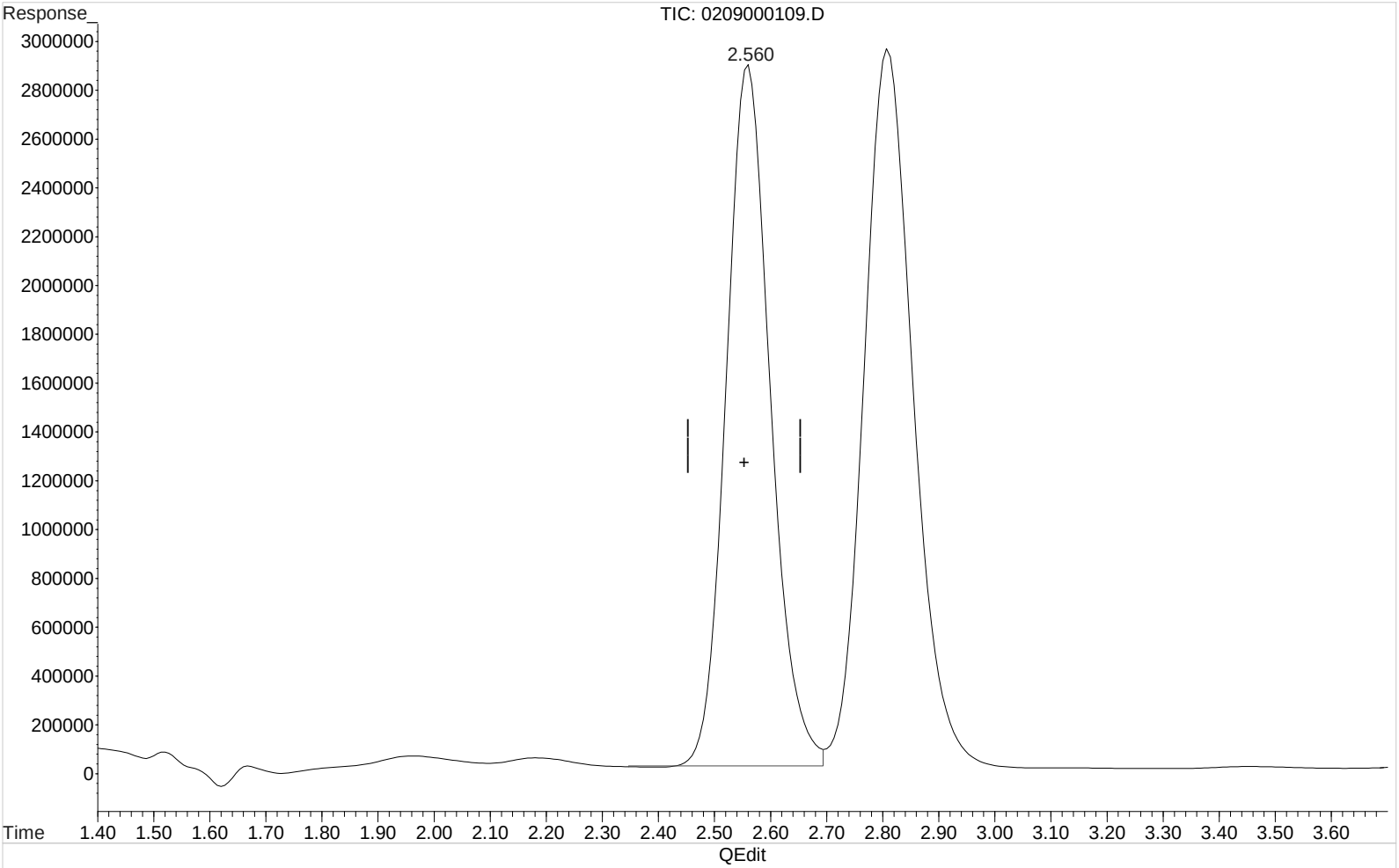
Quantitation Report (Qedit)

(b) (6)
1st 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:45:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.560min 1011.865 ug/L m

response 15754141

Manual Integration:

After

BLC

02/13/17

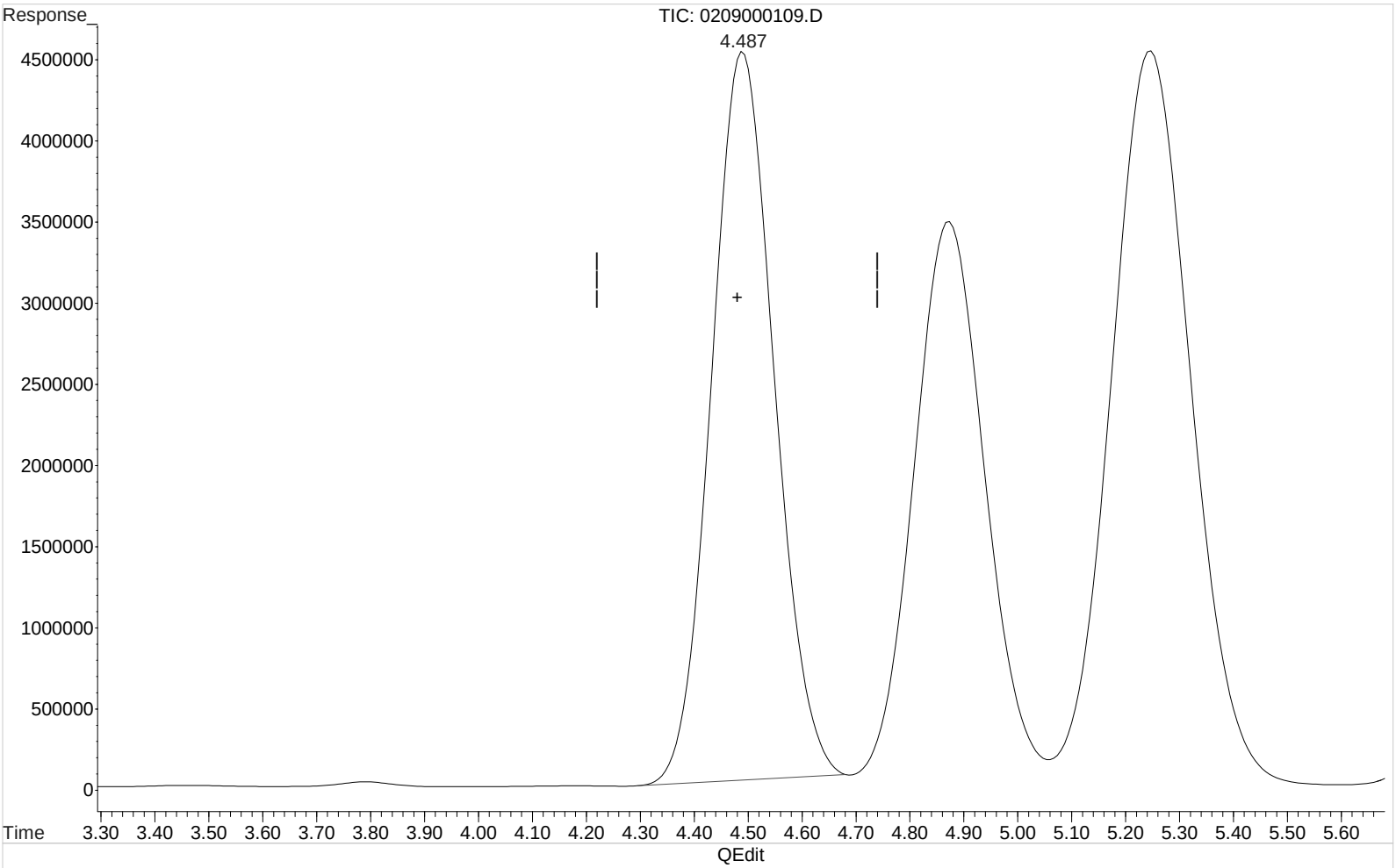
(+) = Expected Retention Time

(b) (6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:45:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(3) Nitrobenzene (T)

4.487min 987.330 ug/L

response 36350884

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

(b)(6)

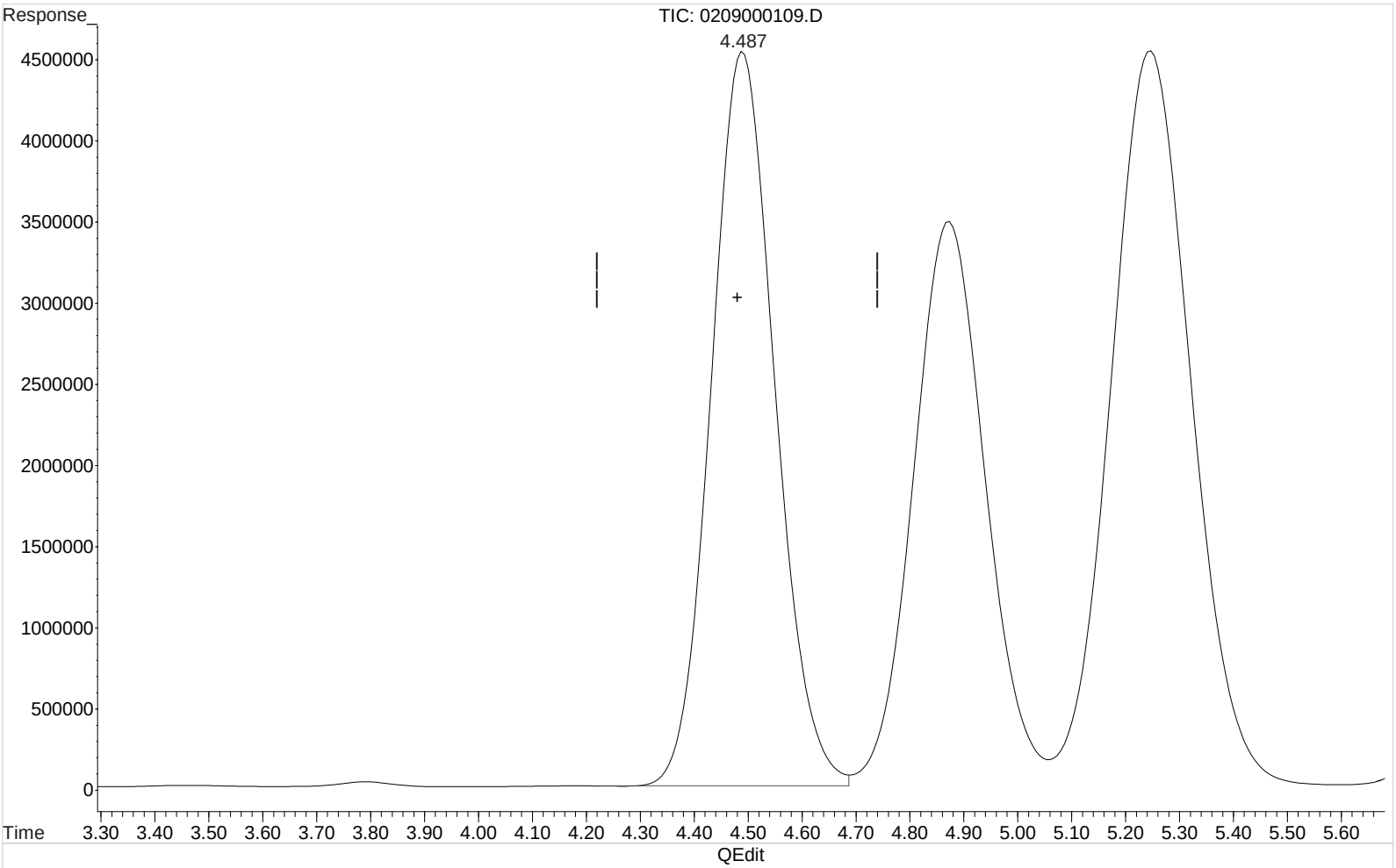
1st 02/13/17

2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:45:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 1009.140 ug/L m

response 37153839

Manual Integration:

After

BLC

02/13/17

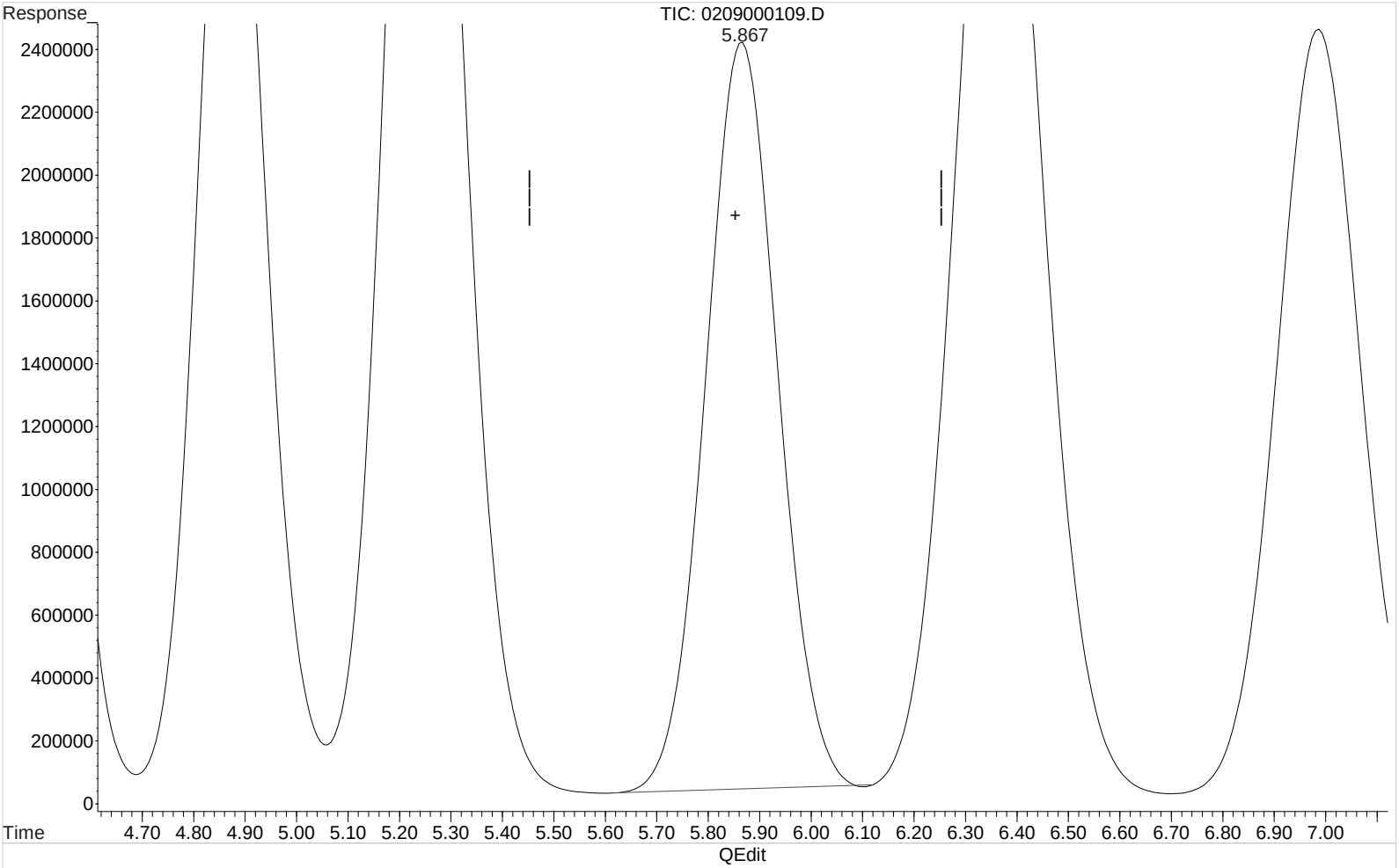
(+) = Expected Retention Time

(b)
(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:45:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.867min 987.309 ug/L

response 23211771

Manual Integration:

Before

02/13/17

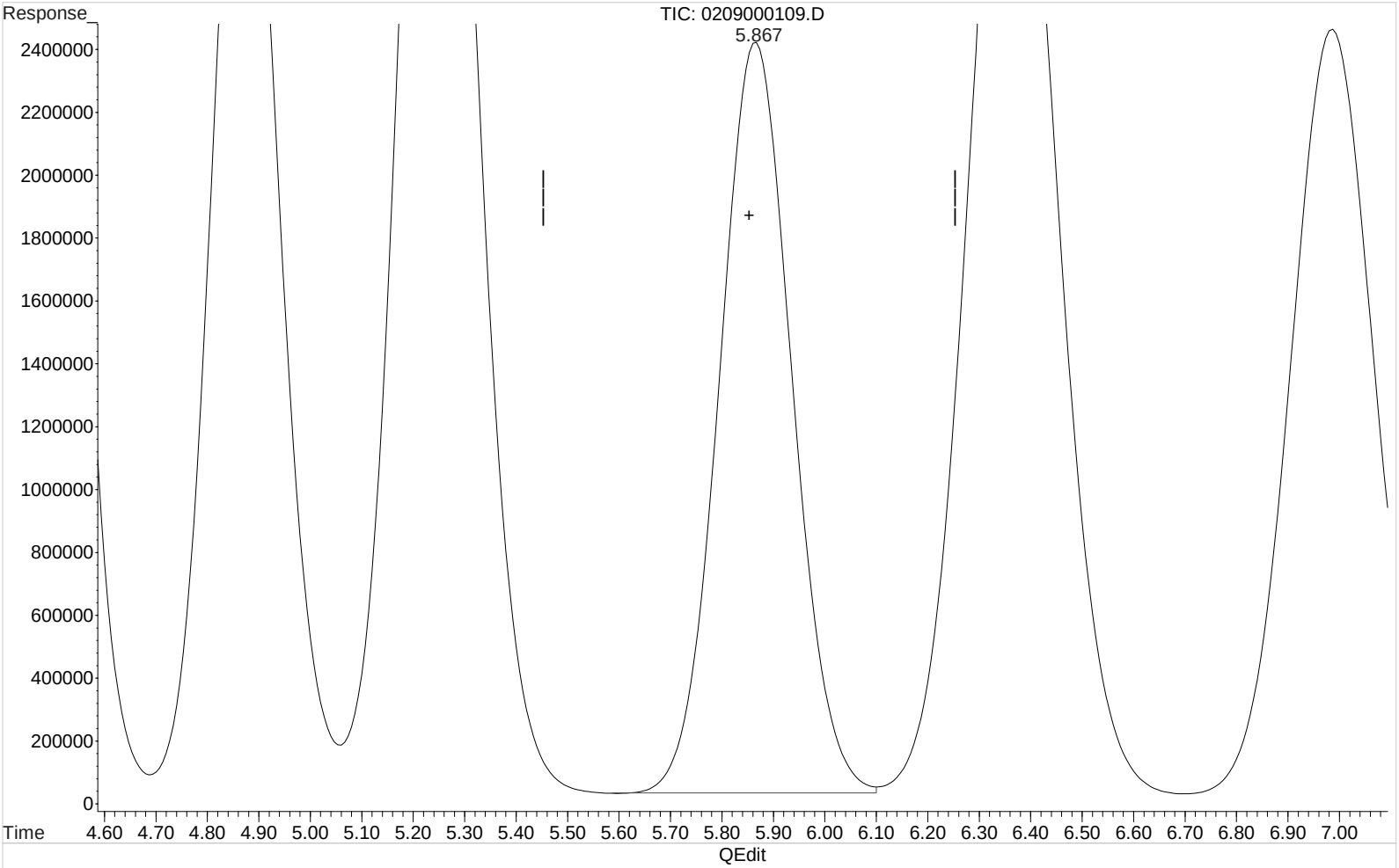
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:53:53 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(6) 2-NT (T)

5.867min 1002.211 ug/L m

response 23562112

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st (b)(6) 02/13/17
2nd [redacted] 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:45:06 2017
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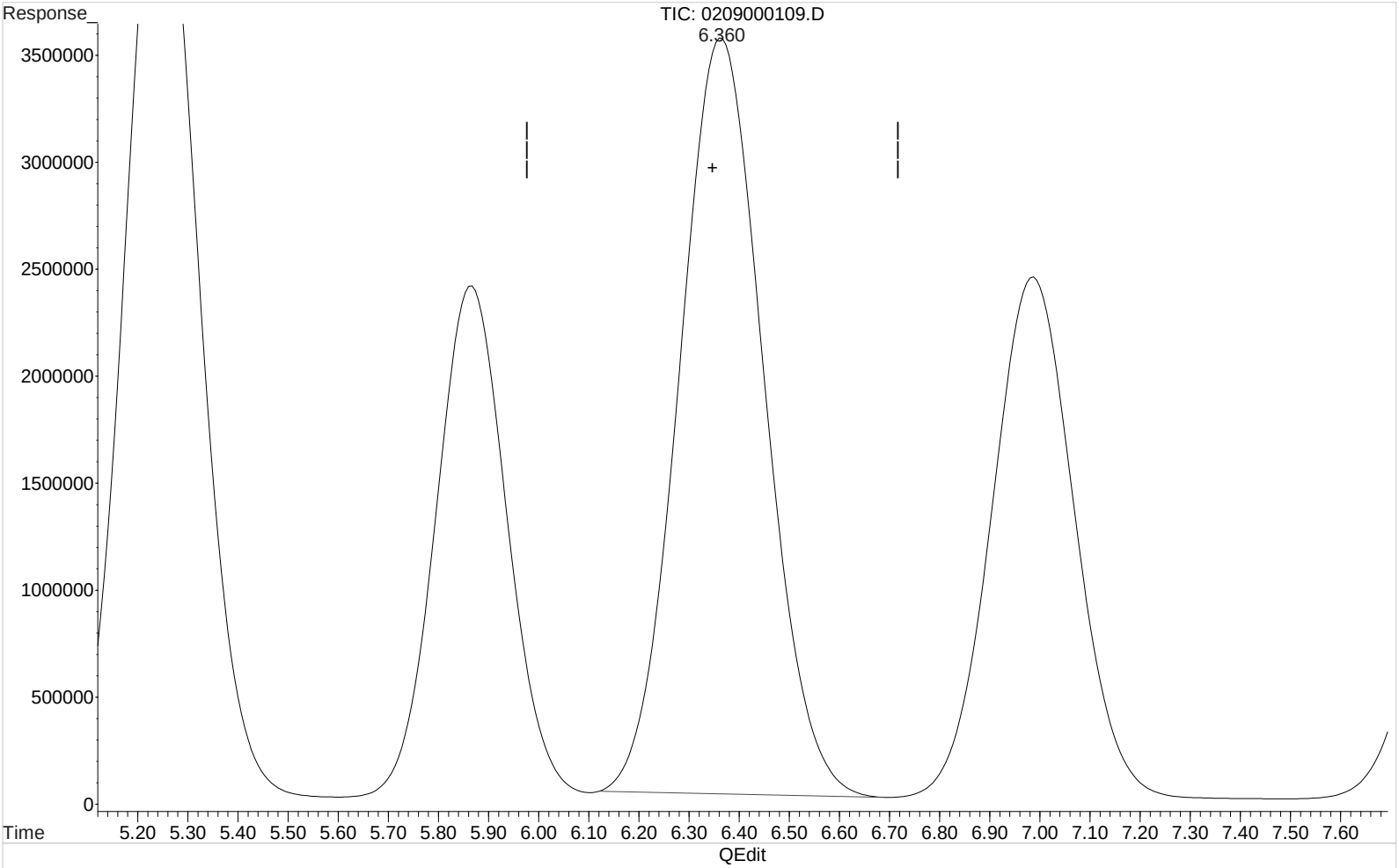
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(7) 2-Amino-4,6-DNT (T)

6.360min 1006.729 ug/L

response 41585985

Manual Integration:

Before

02/13/17

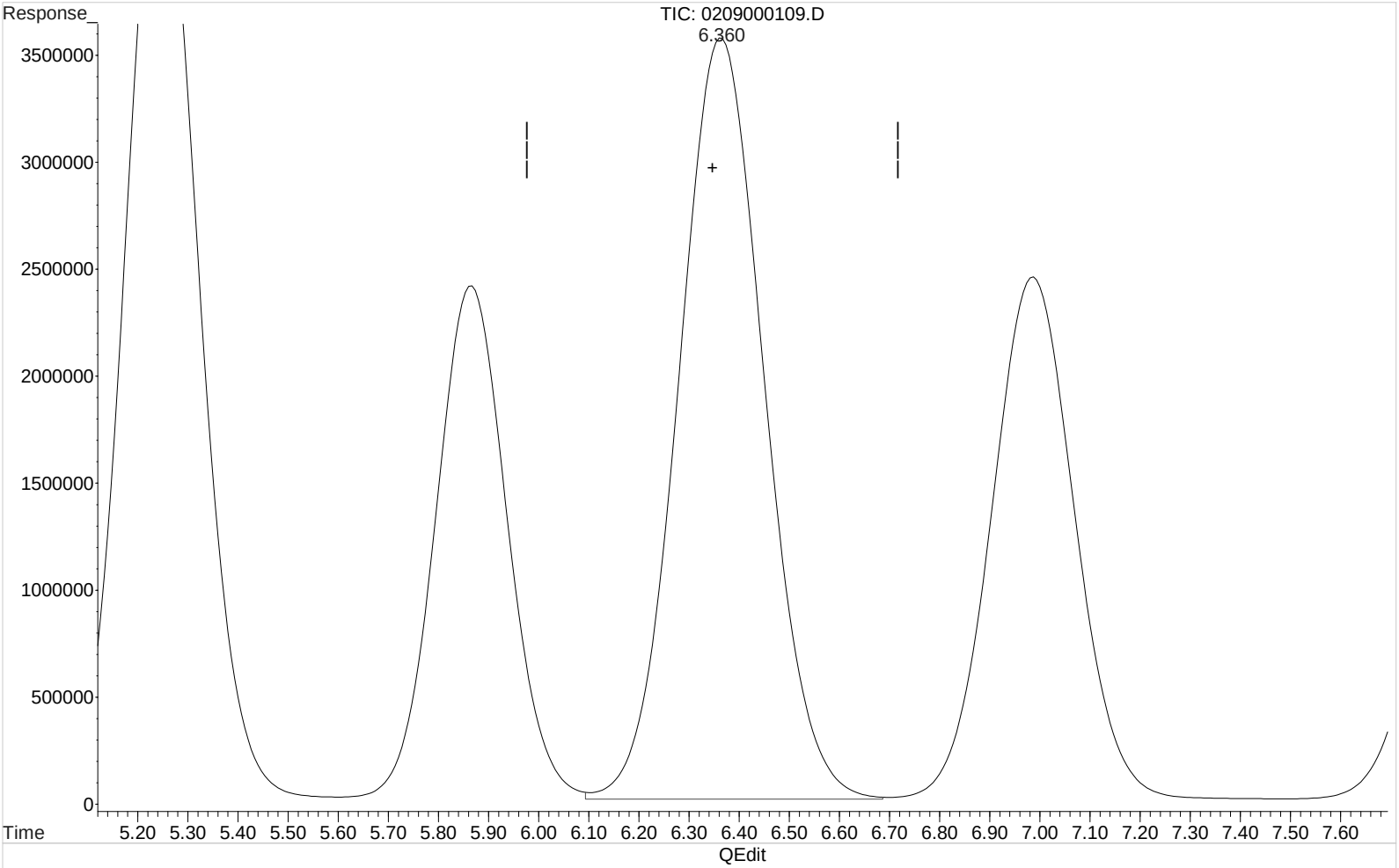
(+) = Expected Retention Time

(b)
(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000109.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:04:47 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:45:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:33:27 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(7) 2-Amino-4,6-DNT (T)

6.360min 1025.978 ug/L m

response 42381135

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:32:55 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds							
11)	S	1-Chloro-3-Nitrobenzene	8.140	53161422	2036.459	ug/L	
Target Compounds							
1)	T	HMX	2.553	31311485	2014.814	ug/L	m
2)	T	RDX	2.800	35554384	2015.185	ug/L	
3)	T	Nitrobenzene	4.487	73843312	2007.562	ug/L	m
4)	T	3,5-Dinitroaniline	5.247	92210324	2013.888	ug/L	
5)	T	4-Amino-2,6-DNT	4.873	62907414	2016.533	ug/L	
6)	T	2-NT	5.867	46778486	1986.311	ug/L	m
7)	T	2-Amino-4,6-DNT	6.367	83175566	2018.100	ug/L	m
8)	T	3-NT	6.987	55760509	2020.510	ug/L	m
9)	T	1,3-DNB	9.133	109641297	2001.567	ug/L	
10)	T	4-NT	7.853	45953635	2043.136	ug/L	m
12)	T	2,6-DNT	8.820	49007058	2027.122	ug/L	
13)	T	2,4-DNT	14.807	100936143	2009.326	ug/L	
14)	T	Tetryl	12.993	55778584	1870.117	ug/L	
15)	T	1,3,5-TNB	19.800	81579082	2002.423	ug/L	
16)	T	2,4,6-TNT	20.787	76817979	2005.253	ug/L	

(f)=RT Delta > 1/2 Window (m)=manual int.

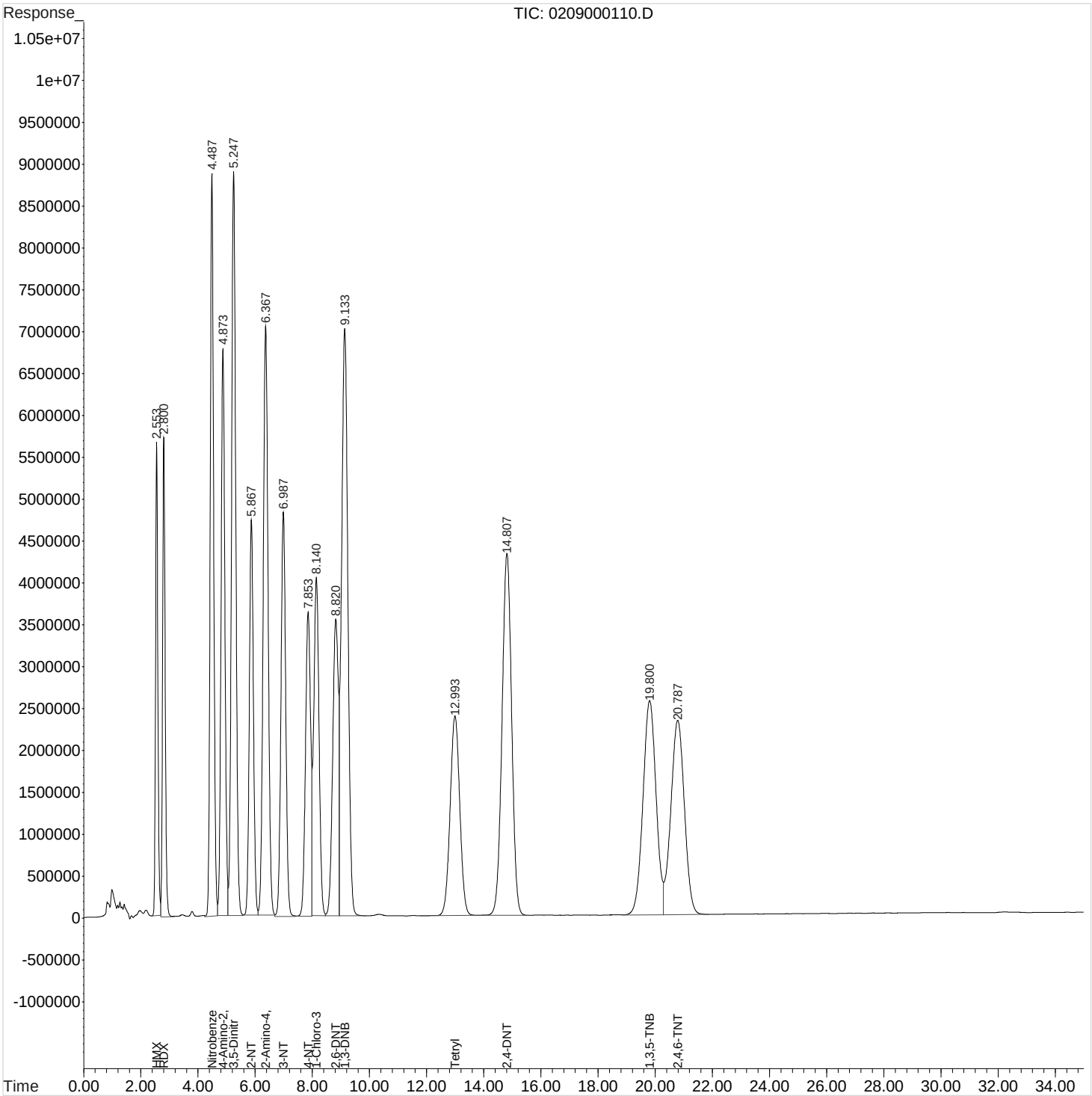
Quantitation Report (QT Reviewed)

1st (b)(6) 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:32:55 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



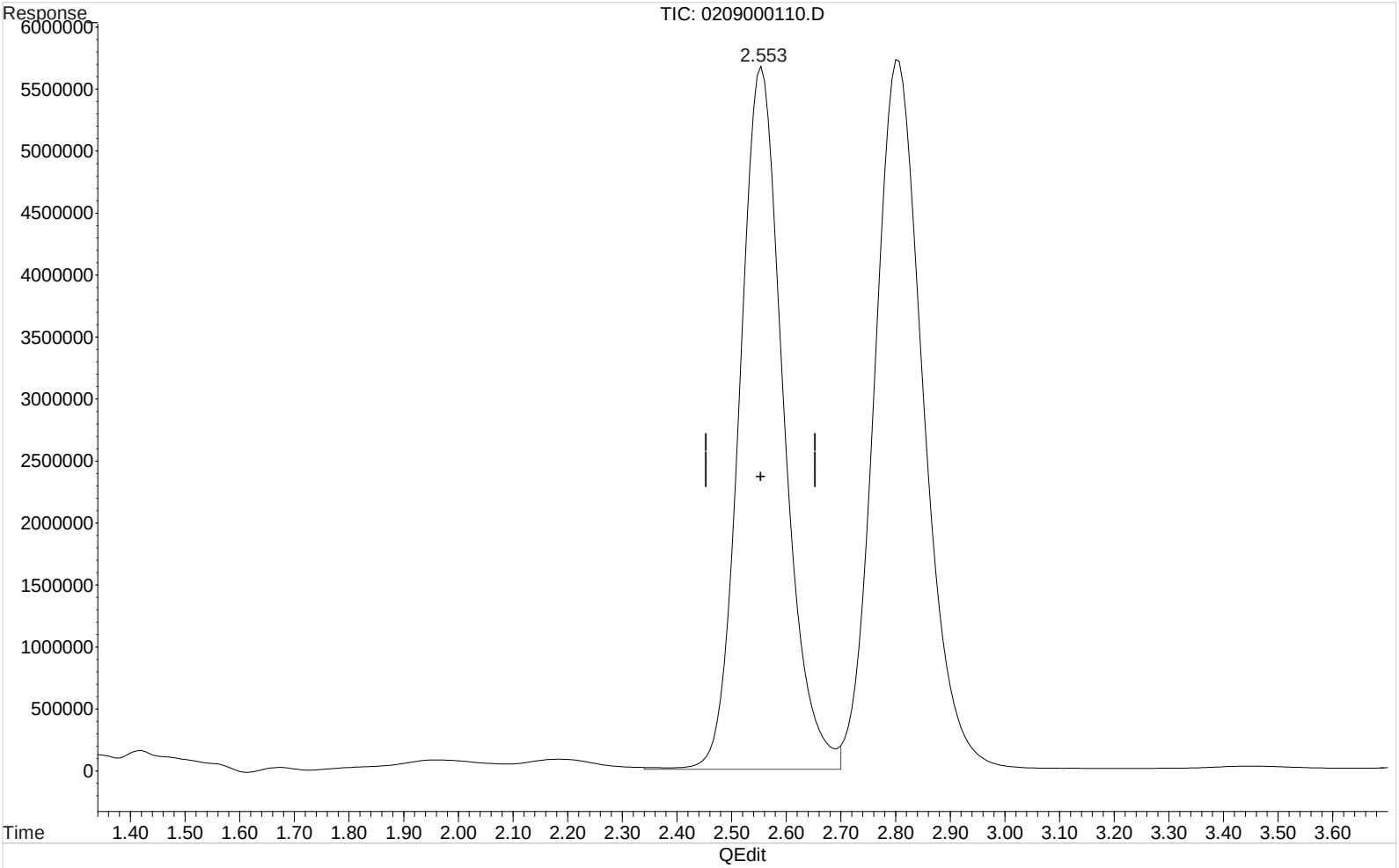
Quantitation Report (Qedit)

(b) (6)
1st [redacted] 02/13/17
2nd [redacted] 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(1) HMX (T)

2.553min 2039.049 ug/L

response 31688113

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

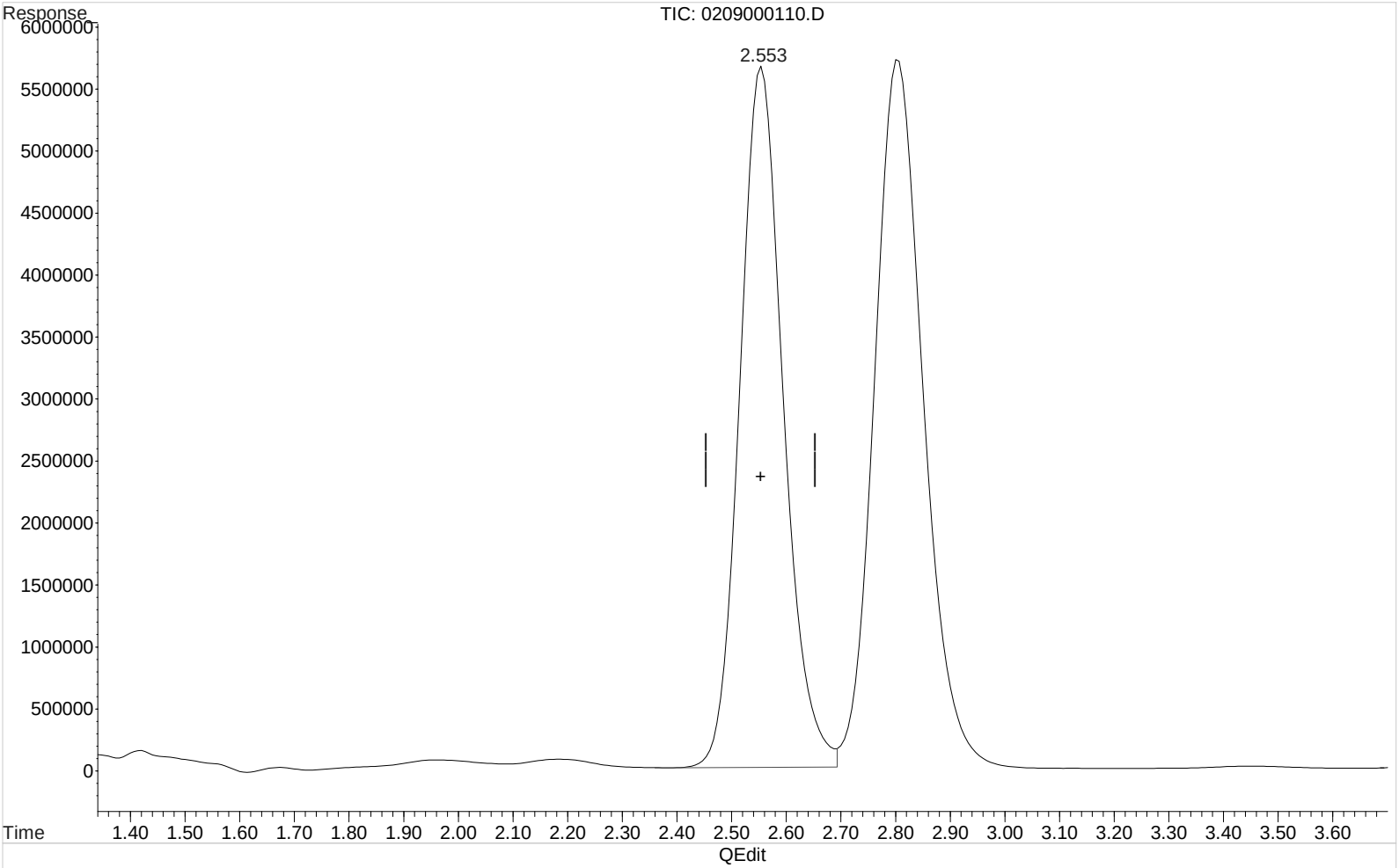
Quantitation Report (Qedit)

(b) (6)
1st [redacted] 02/13/17
2n [redacted] 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(1) HMX (T)

2.553min 2014.814 ug/L m

response 31311485

Manual Integration:

After

BLC

02/13/17

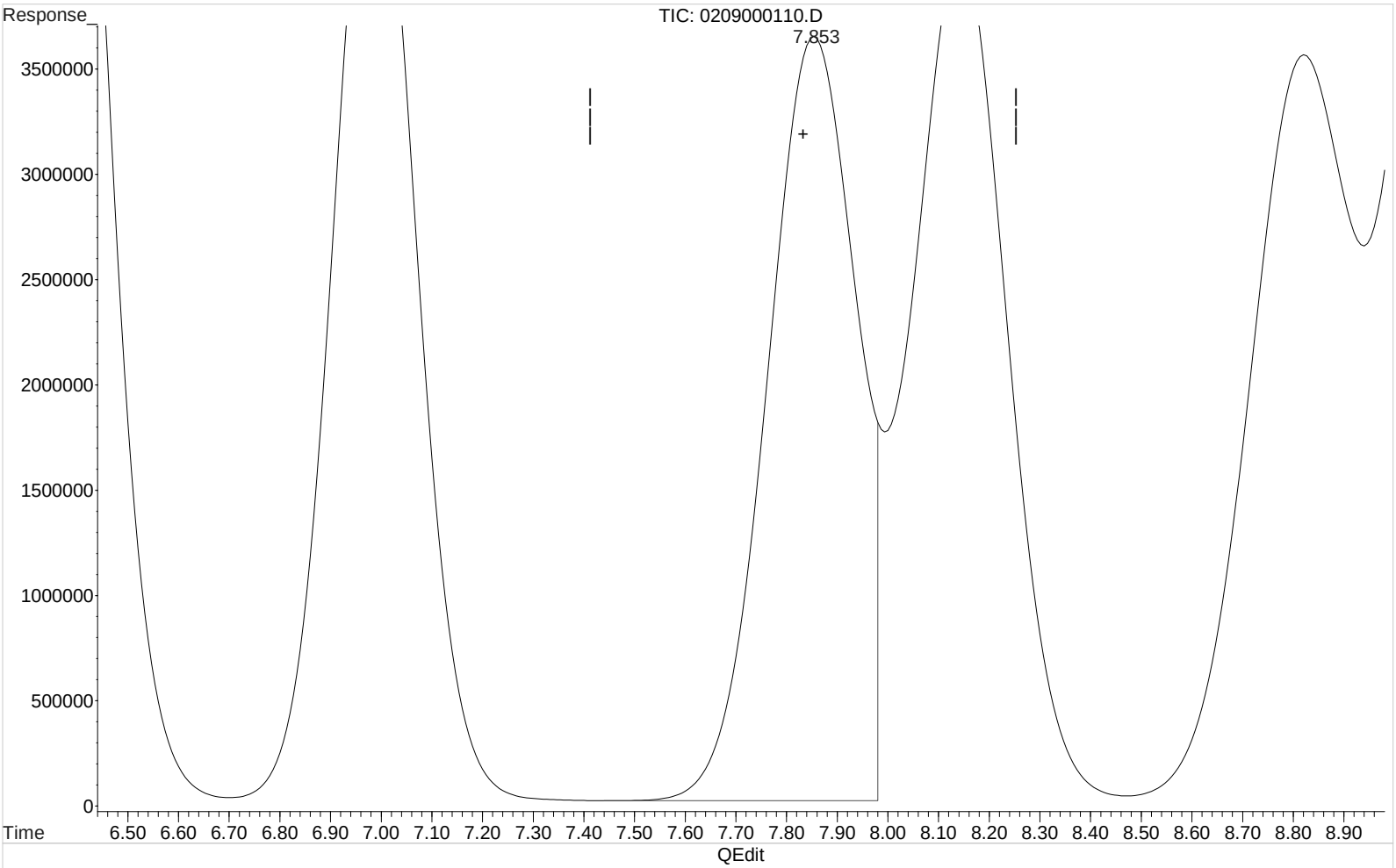
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.853min 1977.033 ug/L

response 44466866

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

(b) (6)

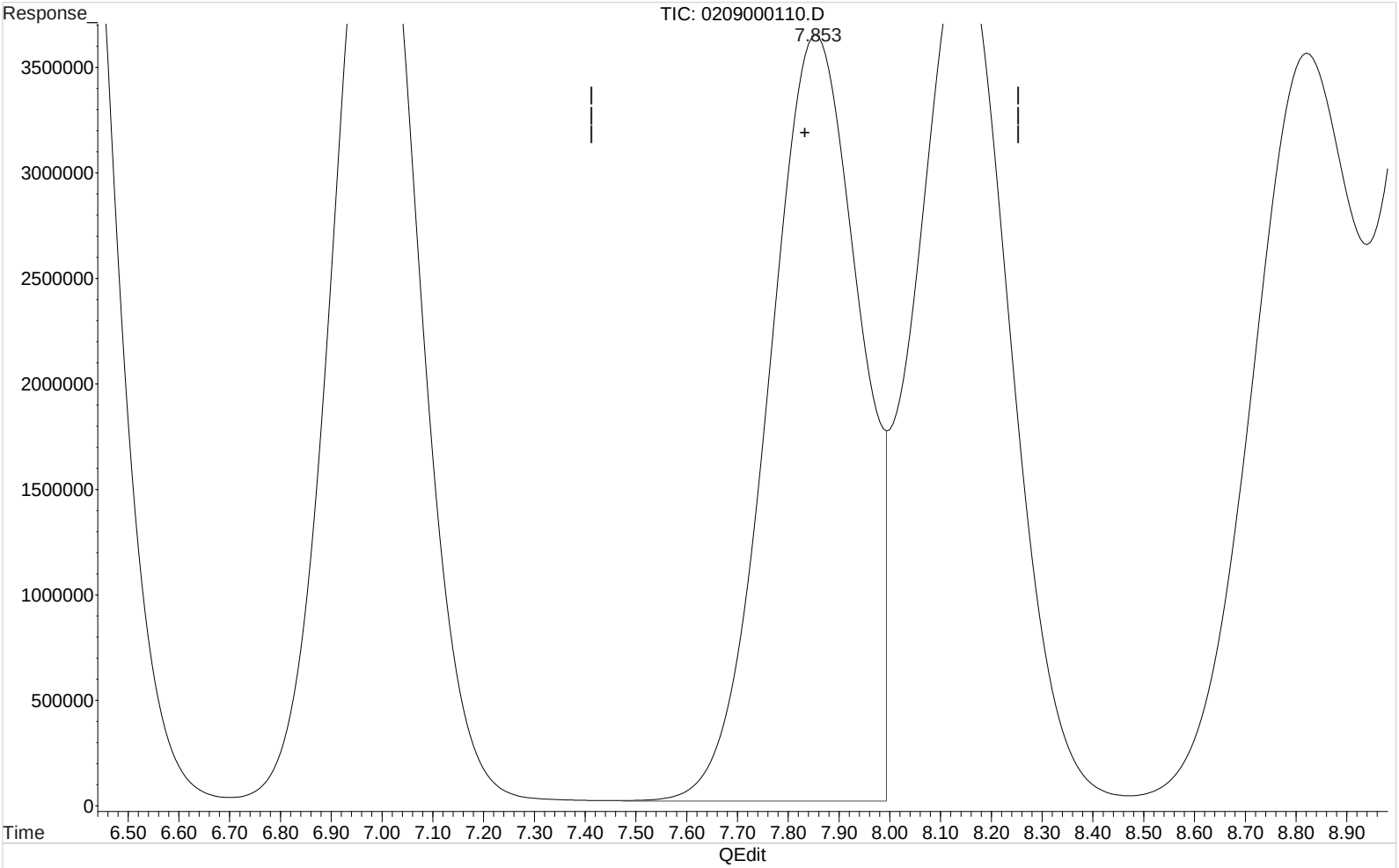
1st [redacted] 2/13/17

2nd [redacted] 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.853min 2043.136 ug/L m

response 45953635

Manual Integration:

After

BLC

02/13/17

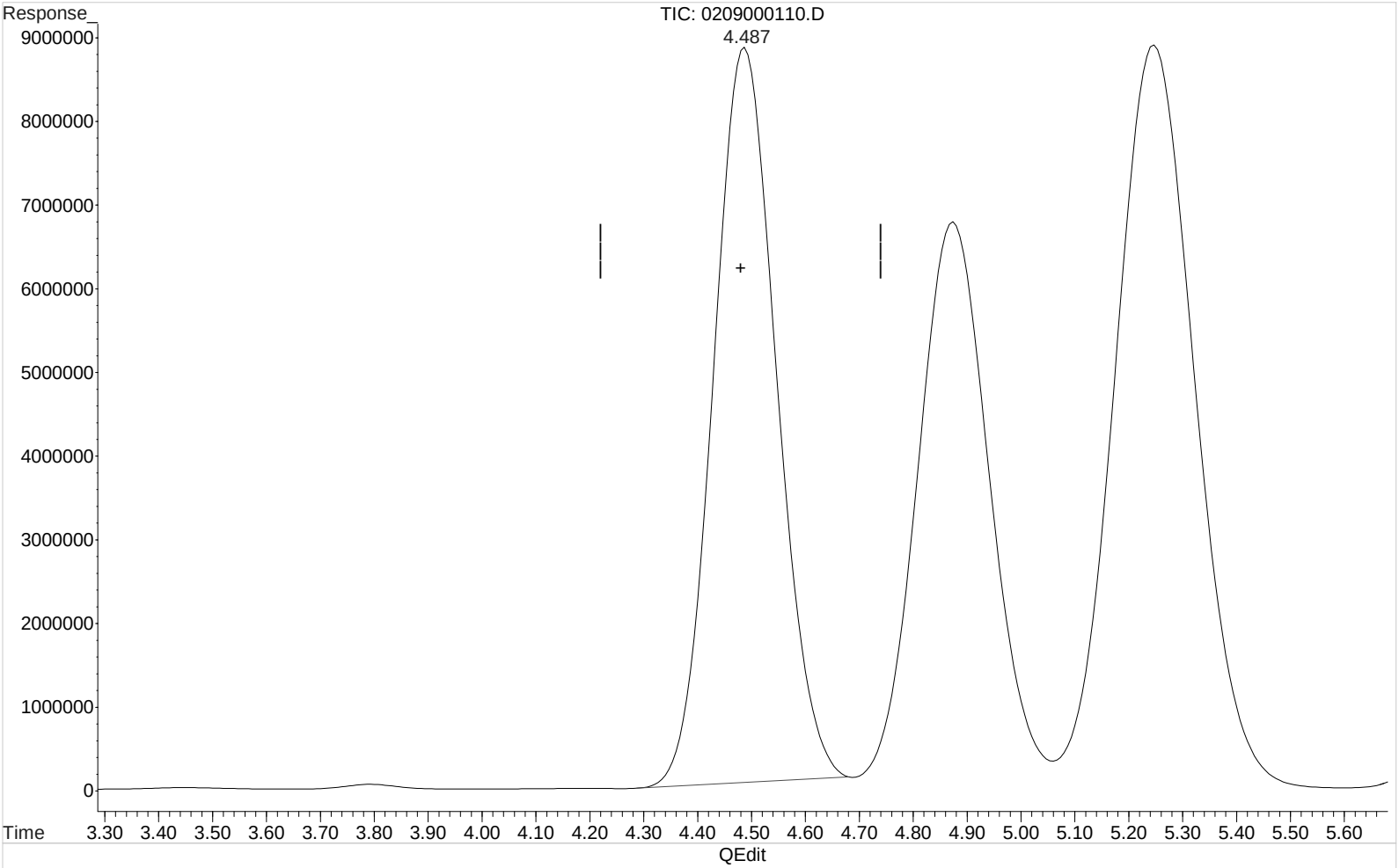
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 1955.136 ug/L

response 71914932

Manual Integration:

Before

02/13/17

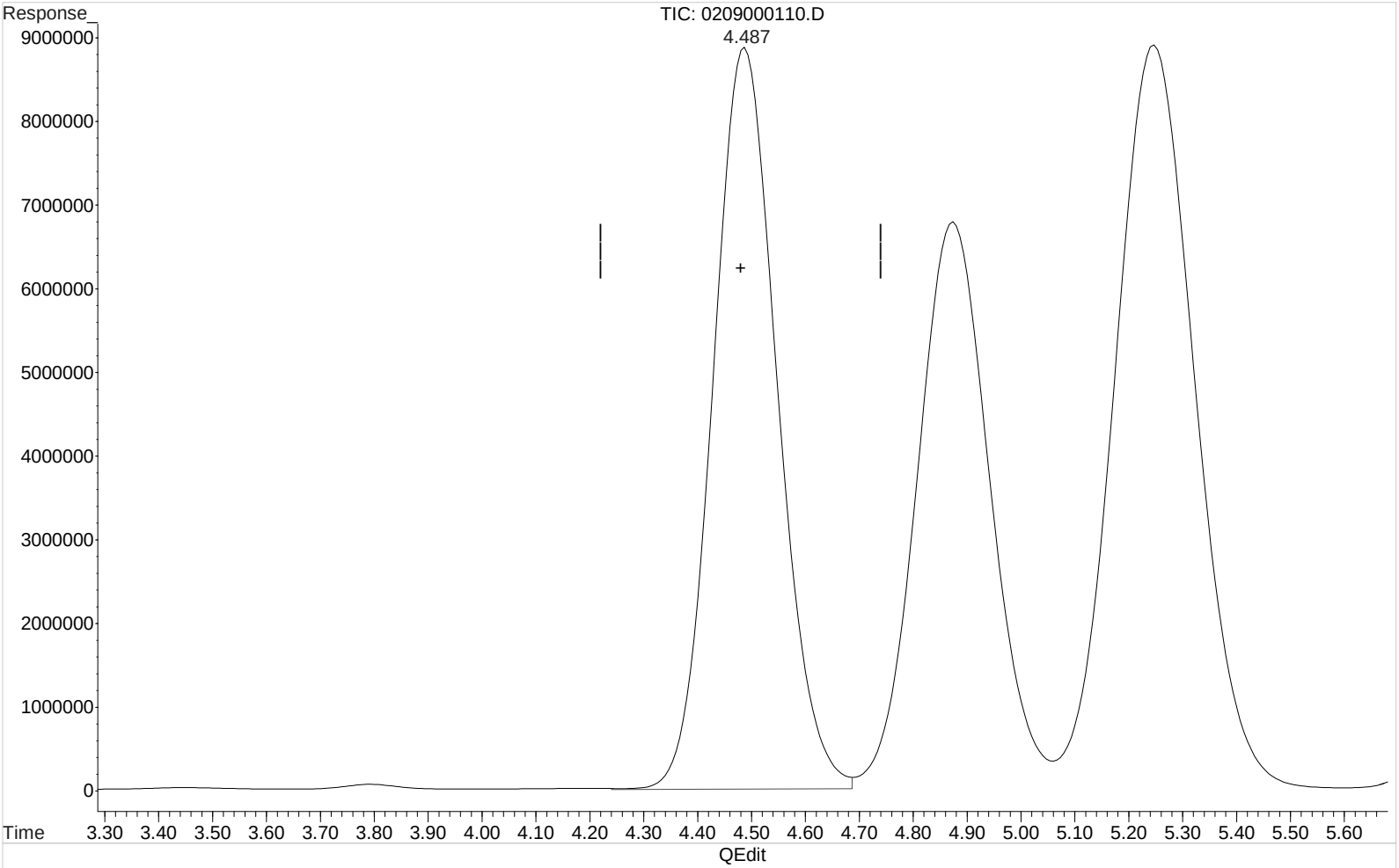
(+) = Expected Retention Time

1st (b)(6) 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 2007.562 ug/L m

response 73843312

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

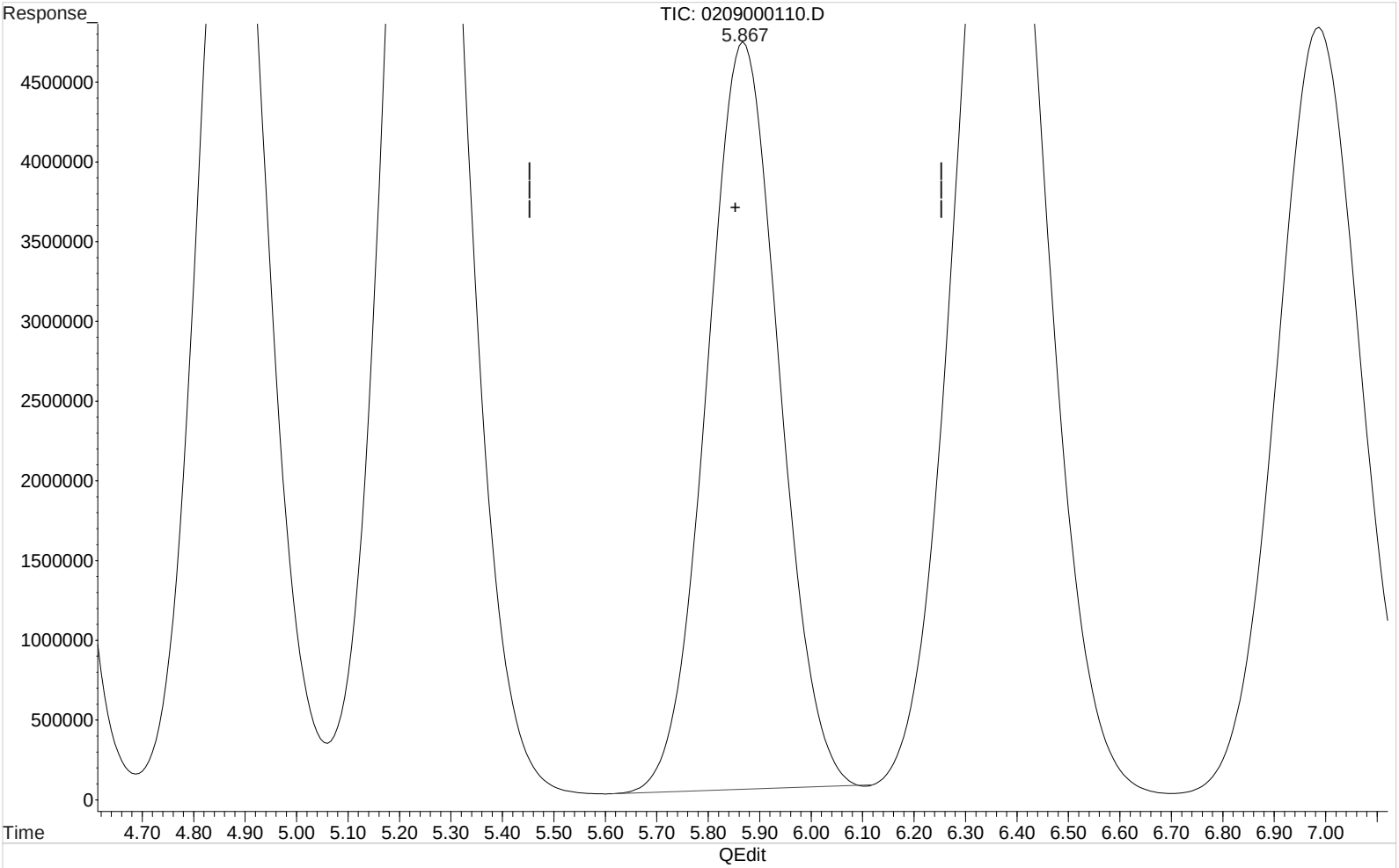
Quantitation Report (Qedit)

(b) (6)
1st [redacted] 2/13/17
2nd [redacted] 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.867min 1951.261 ug/L

response 45953051

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

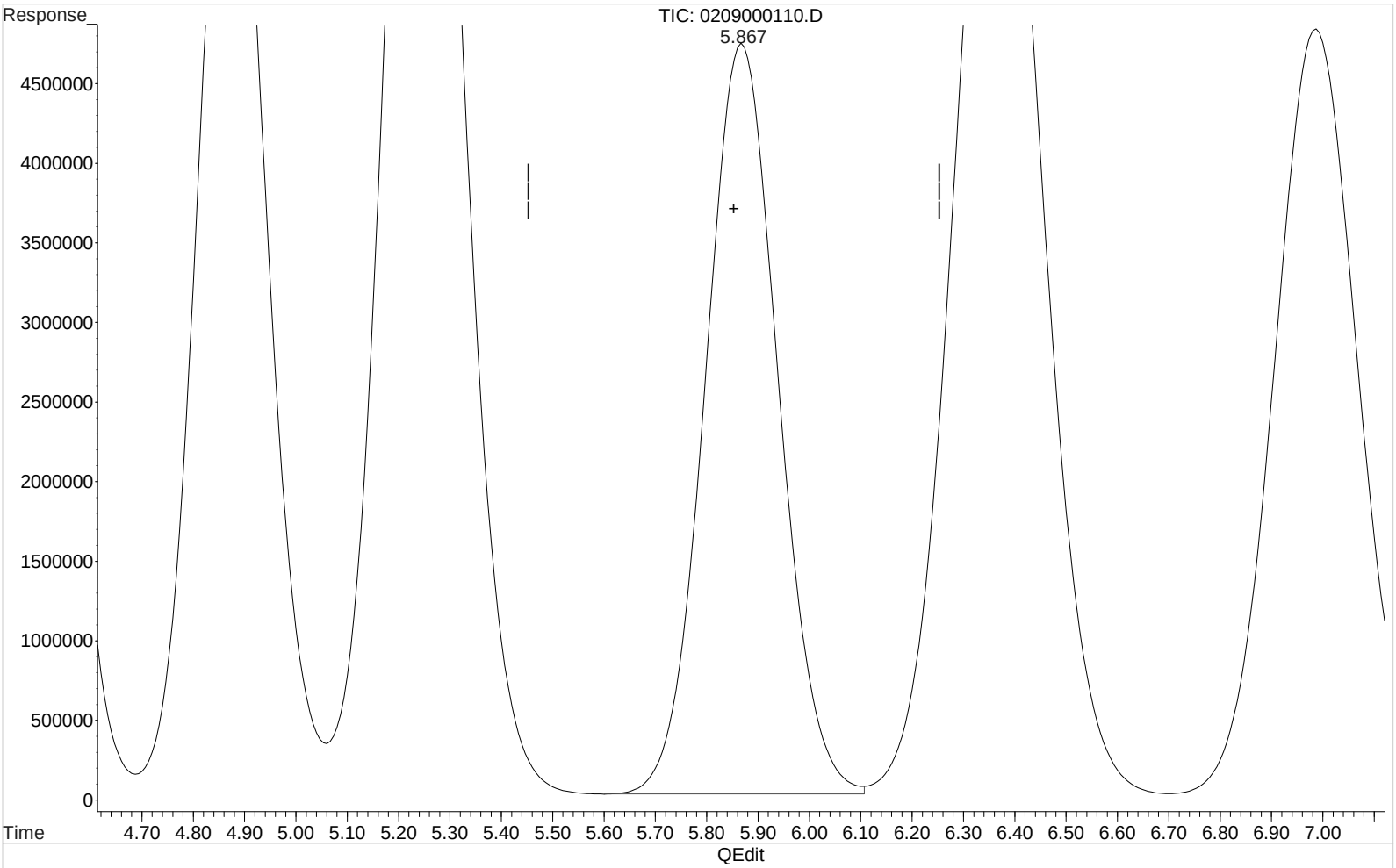
Quantitation Report (Qedit)

(b) (6)
1st 2/13/17
2n 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.867min 1986.311 ug/L m

response 46778486

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

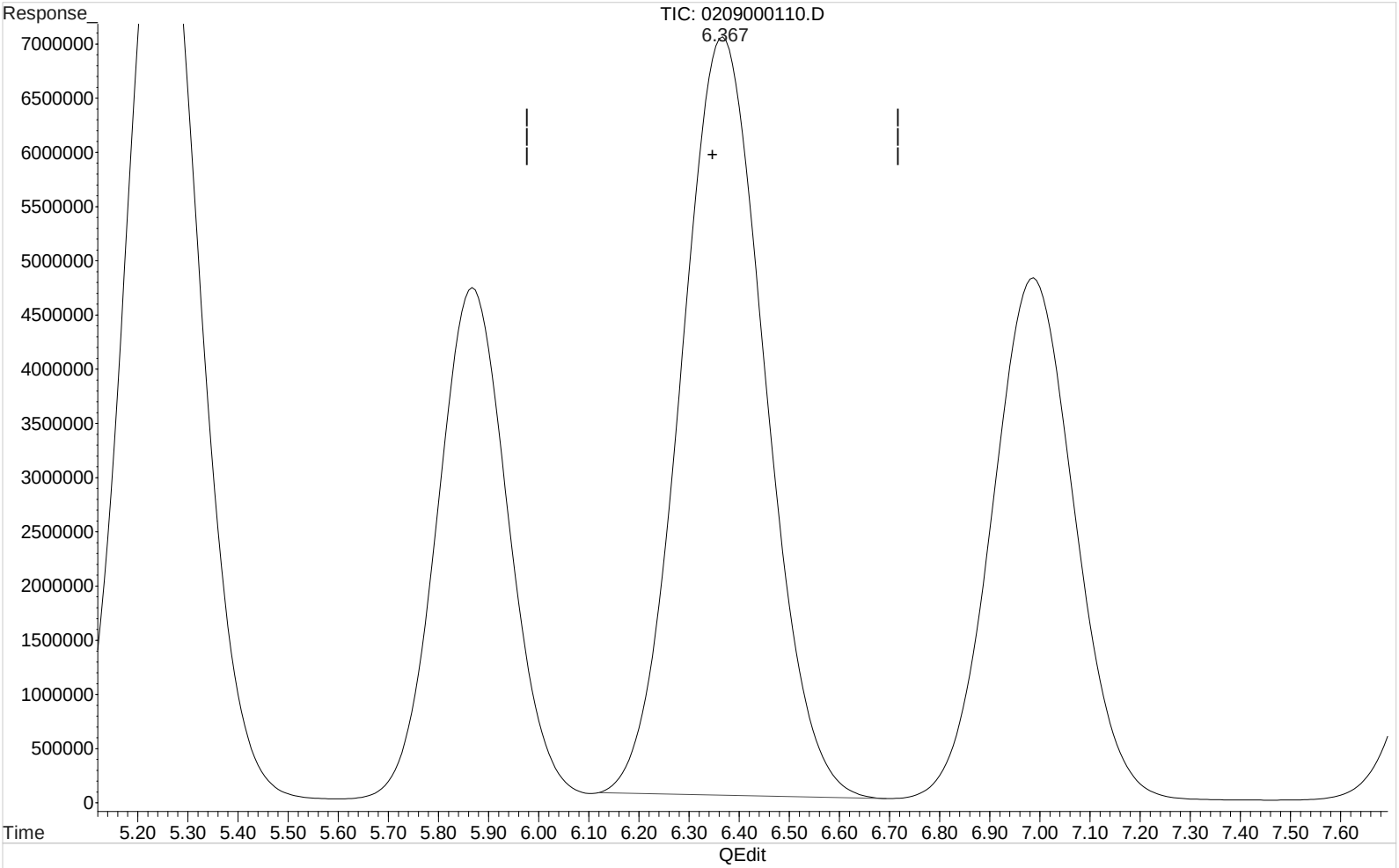
Quantitation Report (Qedit)

(b) (6)
1st 02/13/17
2n 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.367min 1990.374 ug/L

response 82032832

Manual Integration:

Before

02/13/17

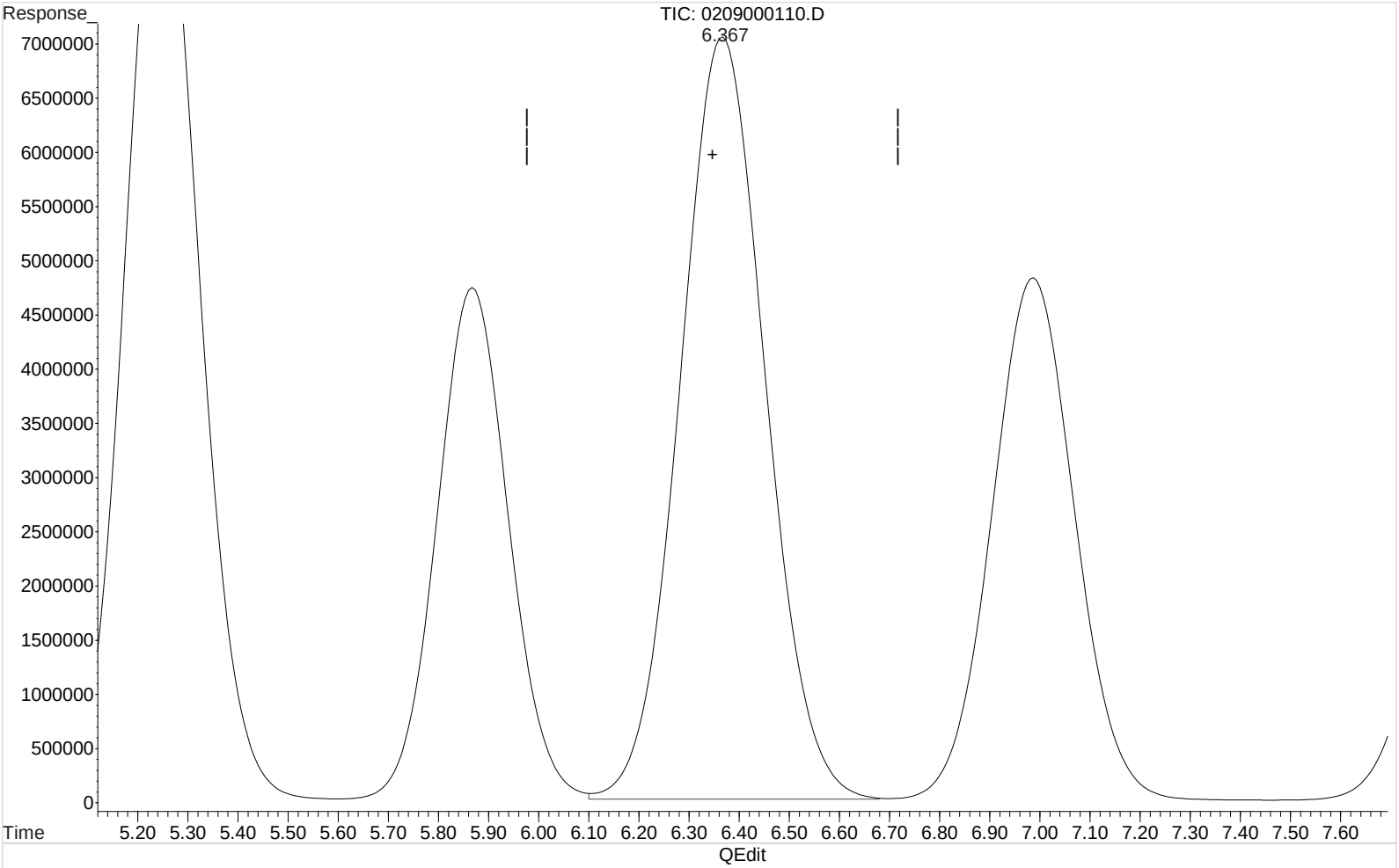
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.367min 2018.100 ug/L m

response 83175566

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

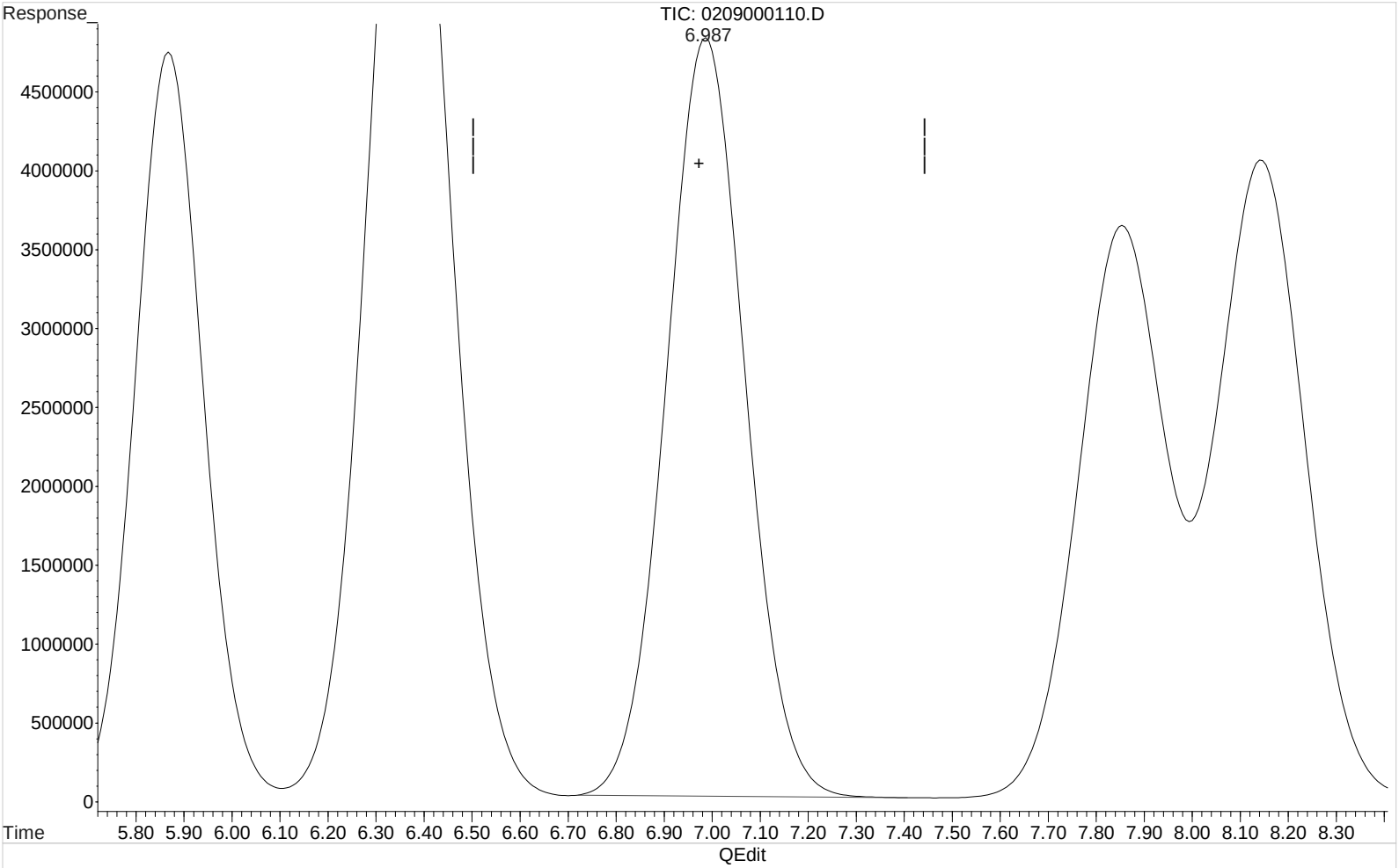
Quantitation Report (Qedit)

(b)(6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(8) 3-NT (T)

6.987min 1994.277 ug/L

response 55036545

Manual Integration:

Before

02/13/17

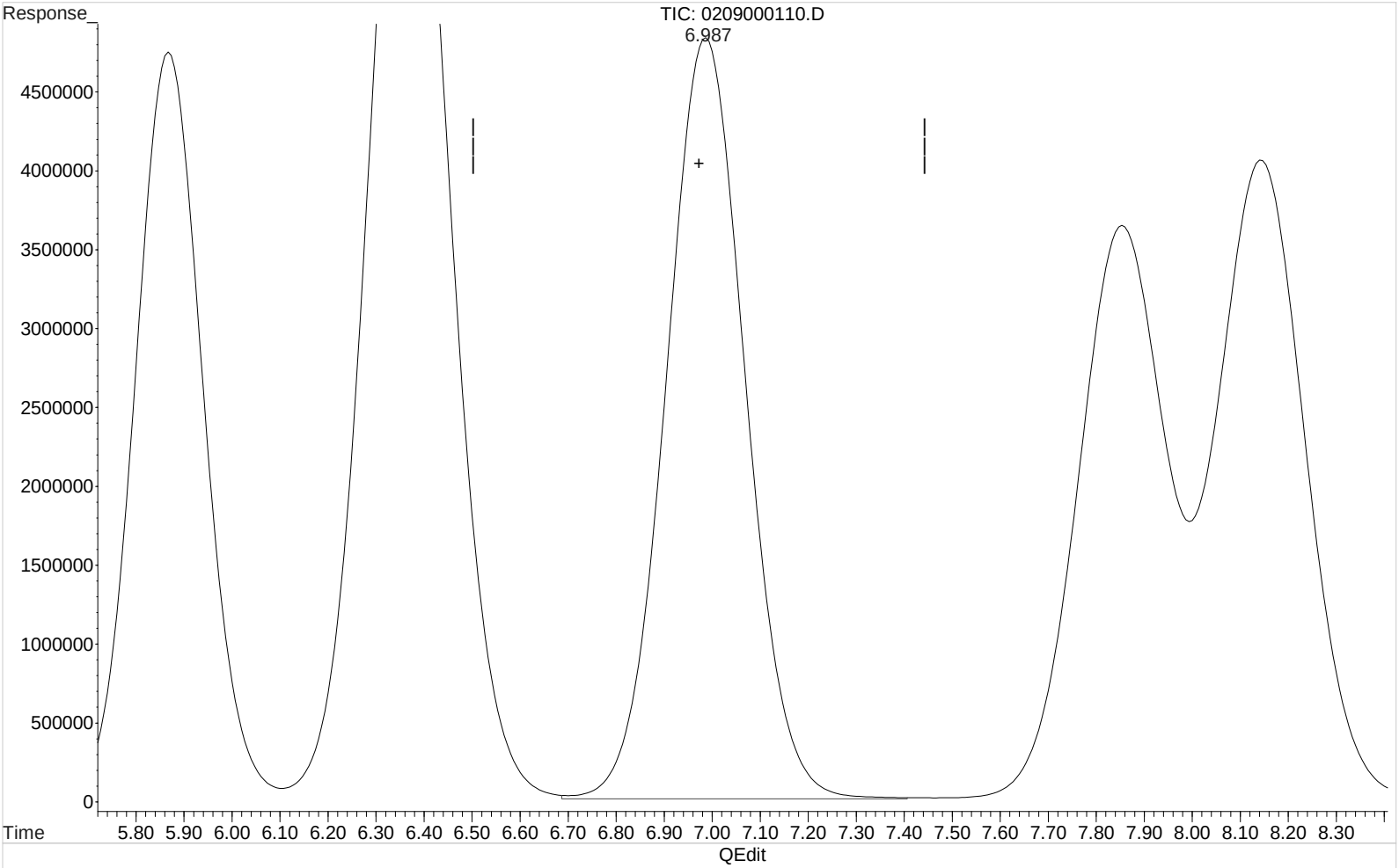
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000110.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 19:41:39 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:30:26 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:29:32 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(8) 3-NT (T)

6.987min 2020.510 ug/L m

response 55760509

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:28:34 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:17:26 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
11)	S	1-Chloro-3-Nitrobenzene	8.147	134147712	5211.143	ug/L	
		Target Compounds					
1)	T	HMX	2.553	79282682	5154.023	ug/L	
2)	T	RDX	2.800	89521974	5111.845	ug/L	
3)	T	Nitrobenzene	4.487	185665109	5071.799	ug/L	m
4)	T	3,5-Dinitroaniline	5.247	231796987	5094.312	ug/L	
5)	T	4-Amino-2,6-DNT	4.873	157685856	5082.517	ug/L	
6)	T	2-NT	5.867	118315059	5035.938	ug/L	m
7)	T	2-Amino-4,6-DNT	6.367	208559971	5091.027	ug/L	m
8)	T	3-NT	6.987	138478990	5026.831	ug/L	
9)	T	1,3-DNB	9.140	276098652	5060.762	ug/L	
10)	T	4-NT	7.853	111473856	4934.615	ug/L	
12)	T	2,6-DNT	8.820	122414021	5095.886	ug/L	
13)	T	2,4-DNT	14.813	253409776	5067.205	ug/L	
14)	T	Tetryl	13.007	146489426	4868.306	ug/L	
15)	T	1,3,5-TNB	19.813	205131325	5052.852	ug/L	
16)	T	2,4,6-TNT	20.807	193626551	5082.074	ug/L	

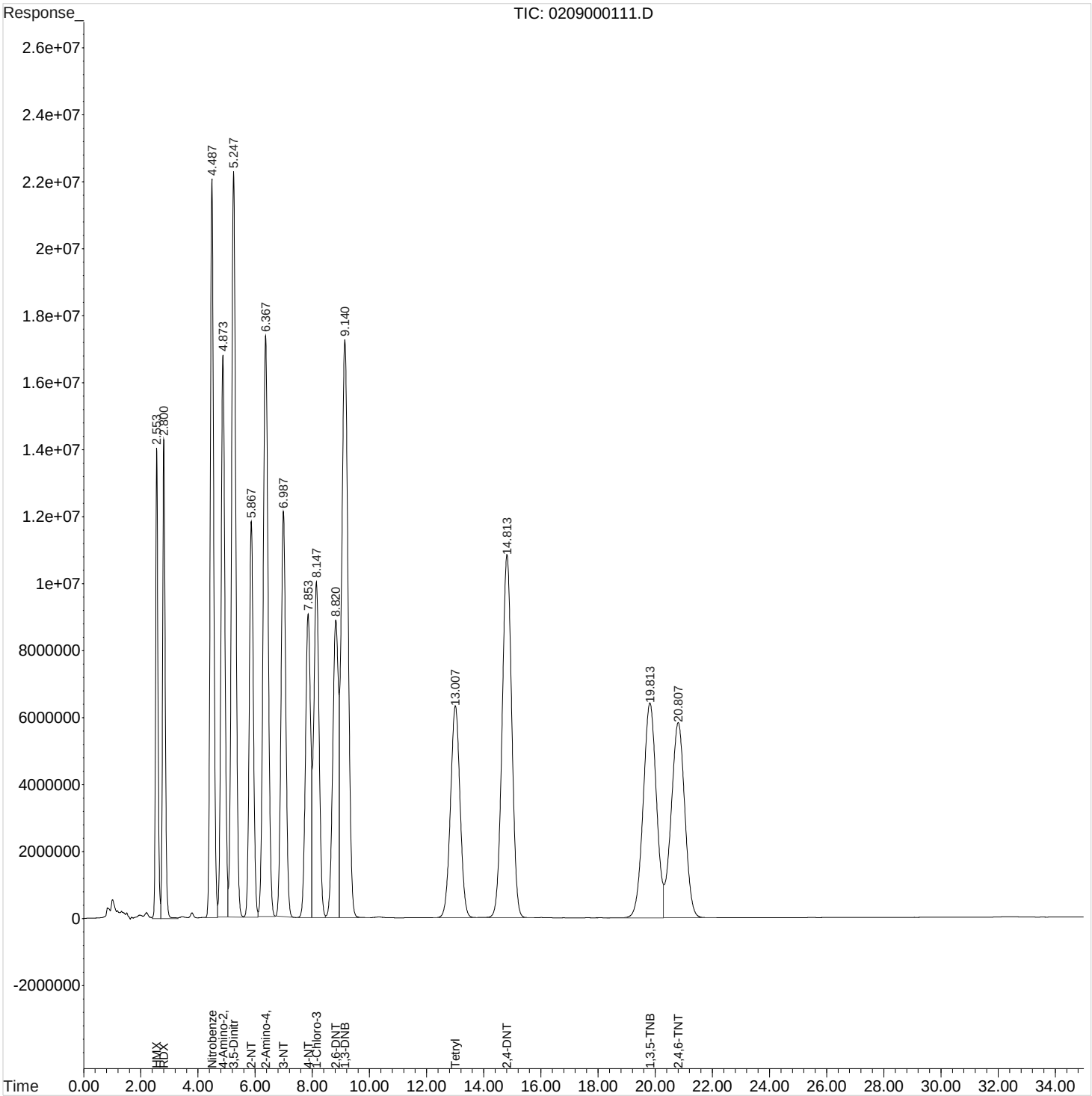
(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)
1st 02/13/17
2n 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:28:34 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:17:26 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



Quantitation Report (Qedit)

(b)(6)

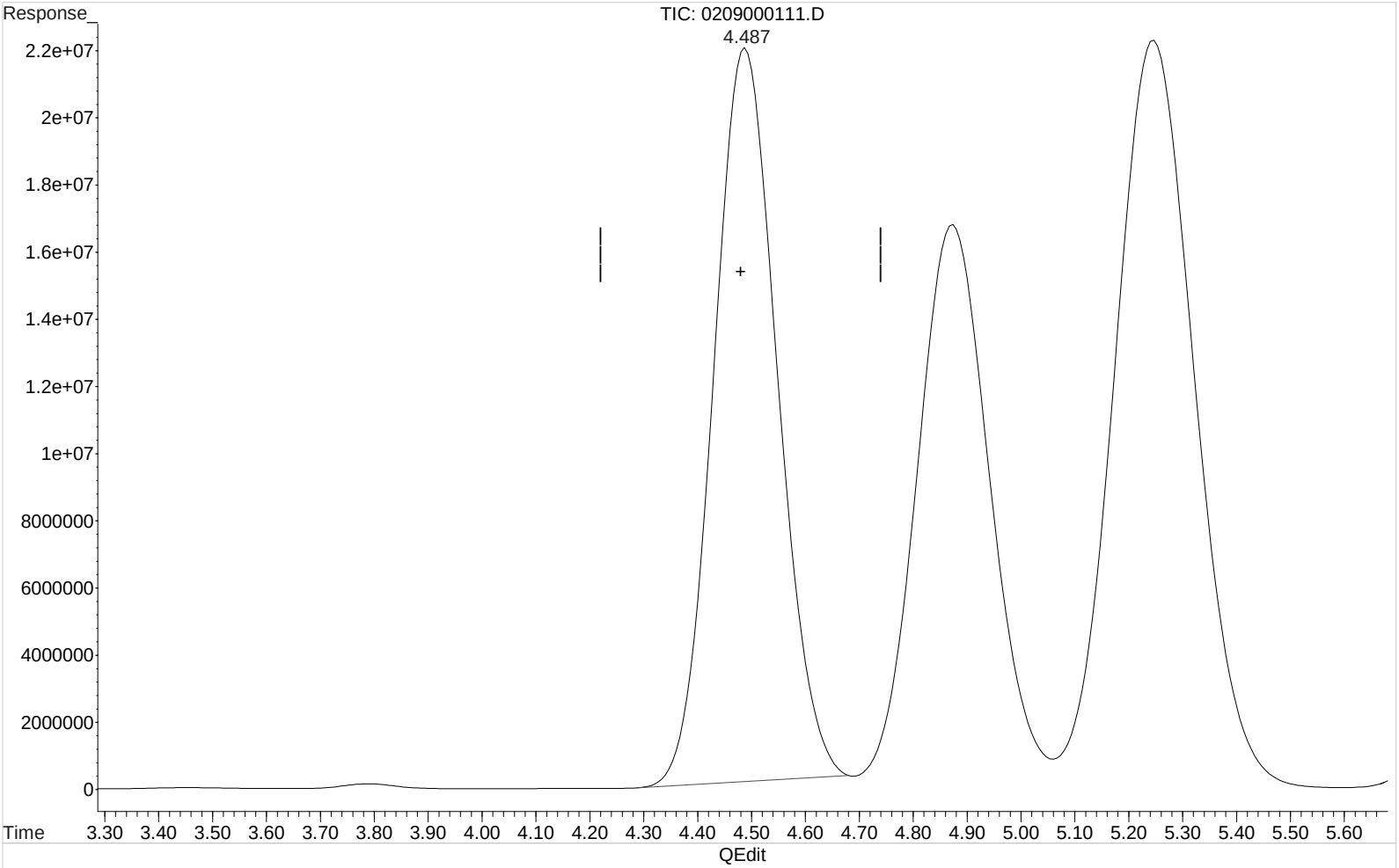
1st 02/13/17

2n 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:26:24 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:17:26 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 4932.834 ug/L

response 180577966

Manual Integration:

Before

02/13/17

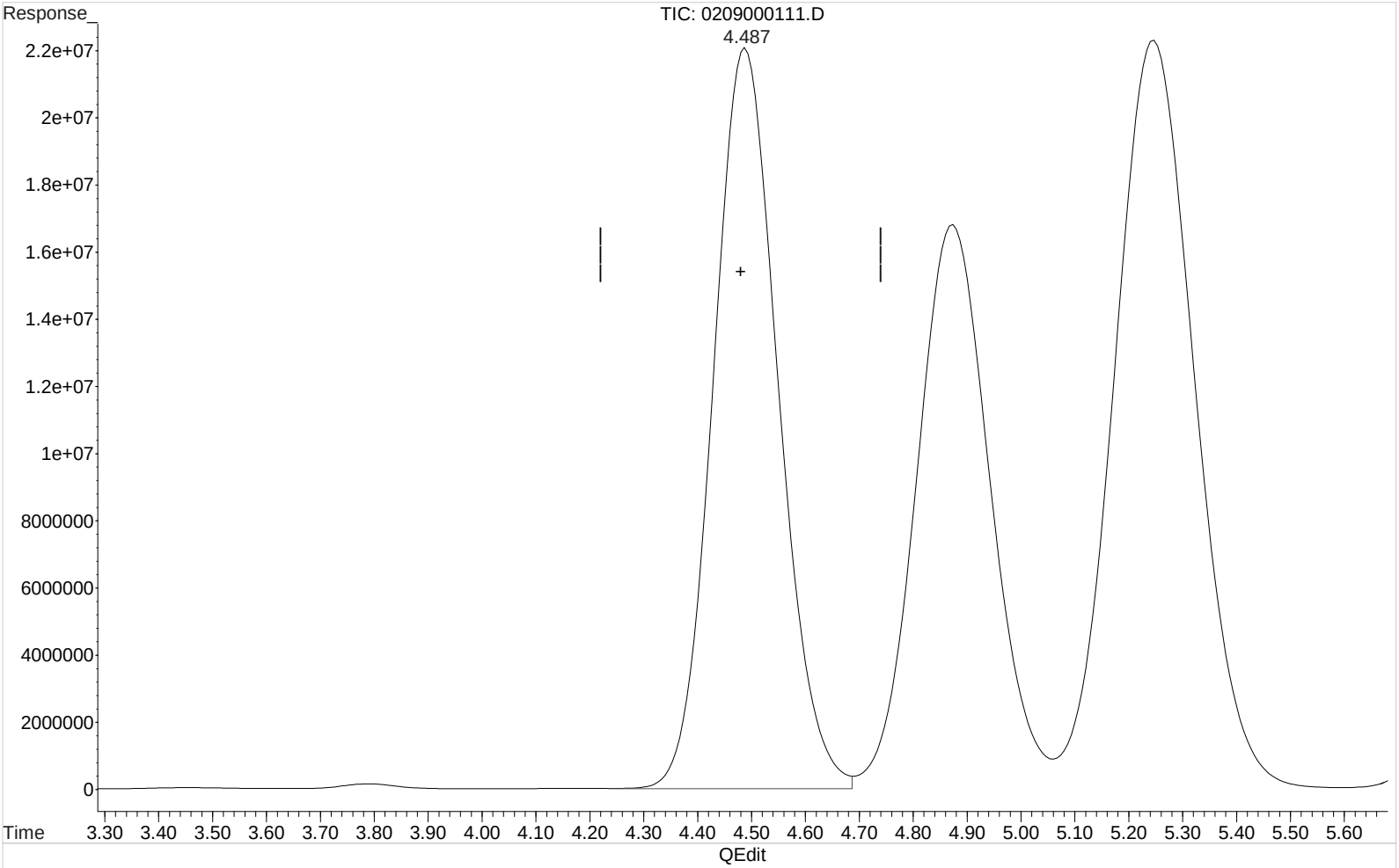
(+) = Expected Retention Time

(b) (6)
1st 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:26:24 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:17:26 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.487min 5071.799 ug/L m

response 185665109

Manual Integration:

After

BLC

02/13/17

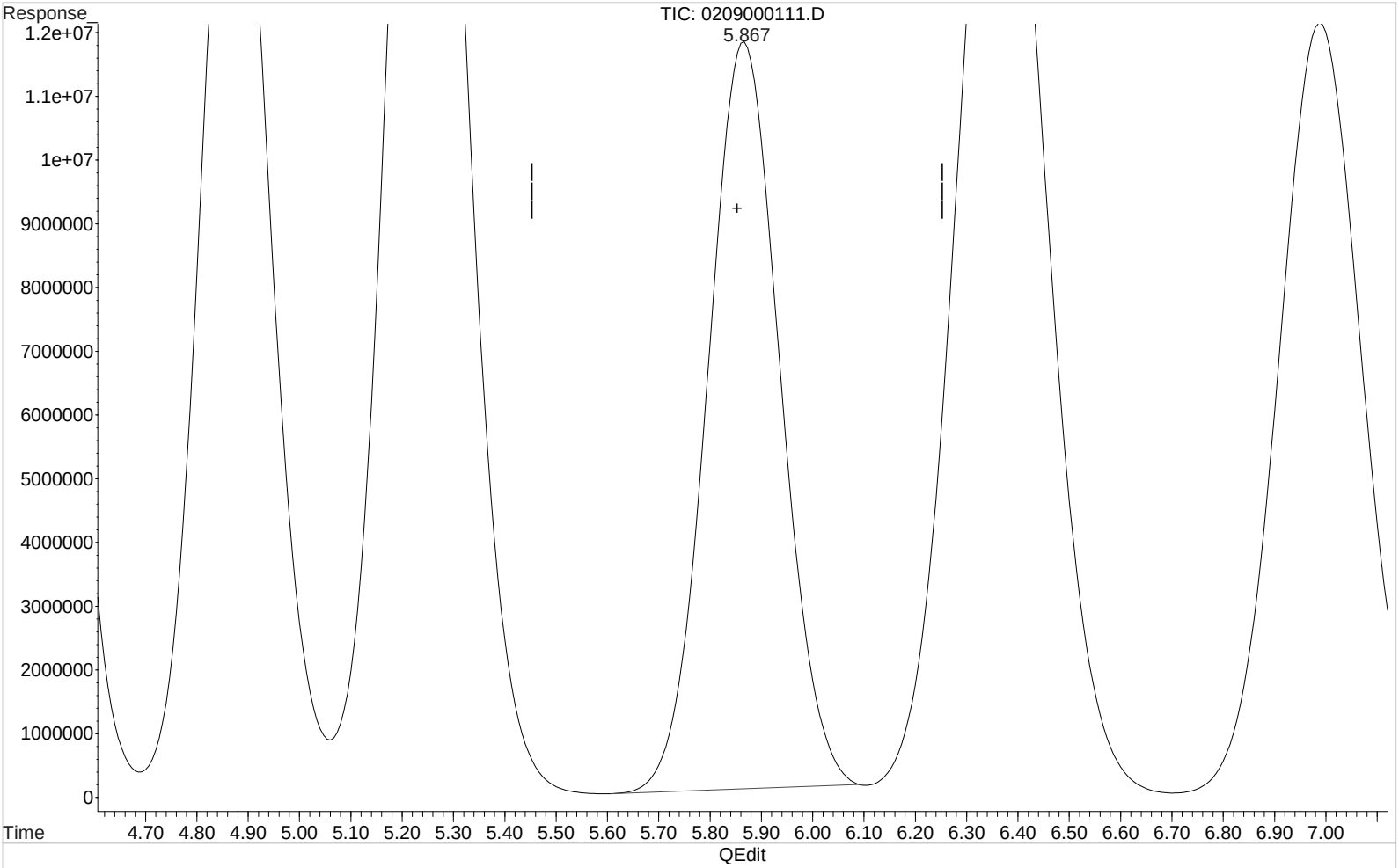
(+) = Expected Retention Time

(b) (6)
1st /13/17
2nd /17/17

Data File : J:\LC08\Data\020917XC-254\0209000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:26:24 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:17:26 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.867min 4916.930 ug/L

response 115519071

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

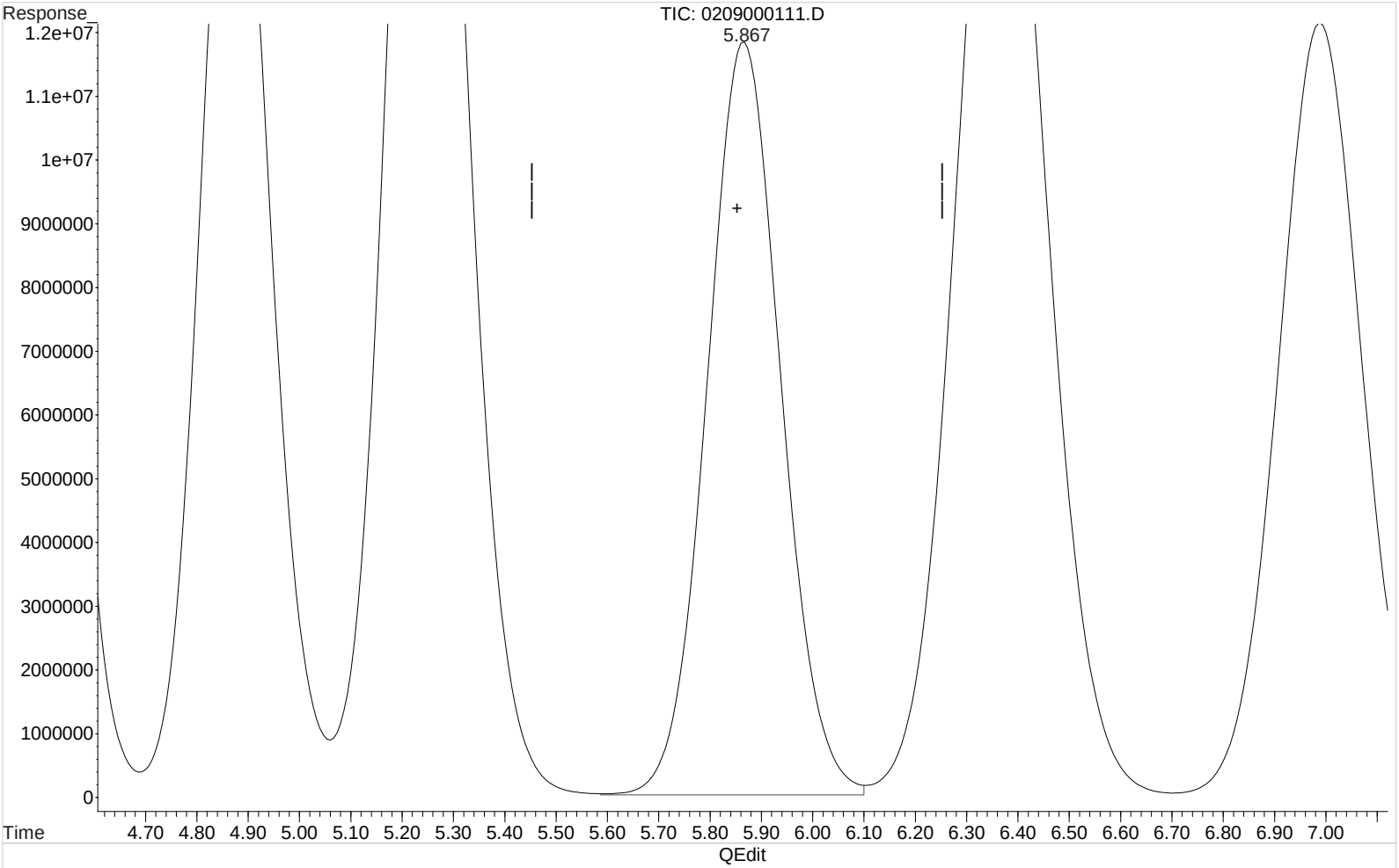
Quantitation Report (Qedit)

1st (b) (6) 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:26:24 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:17:26 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.867min 5035.938 ug/L m

response 118315059

Manual Integration:

After

BLC

02/13/17

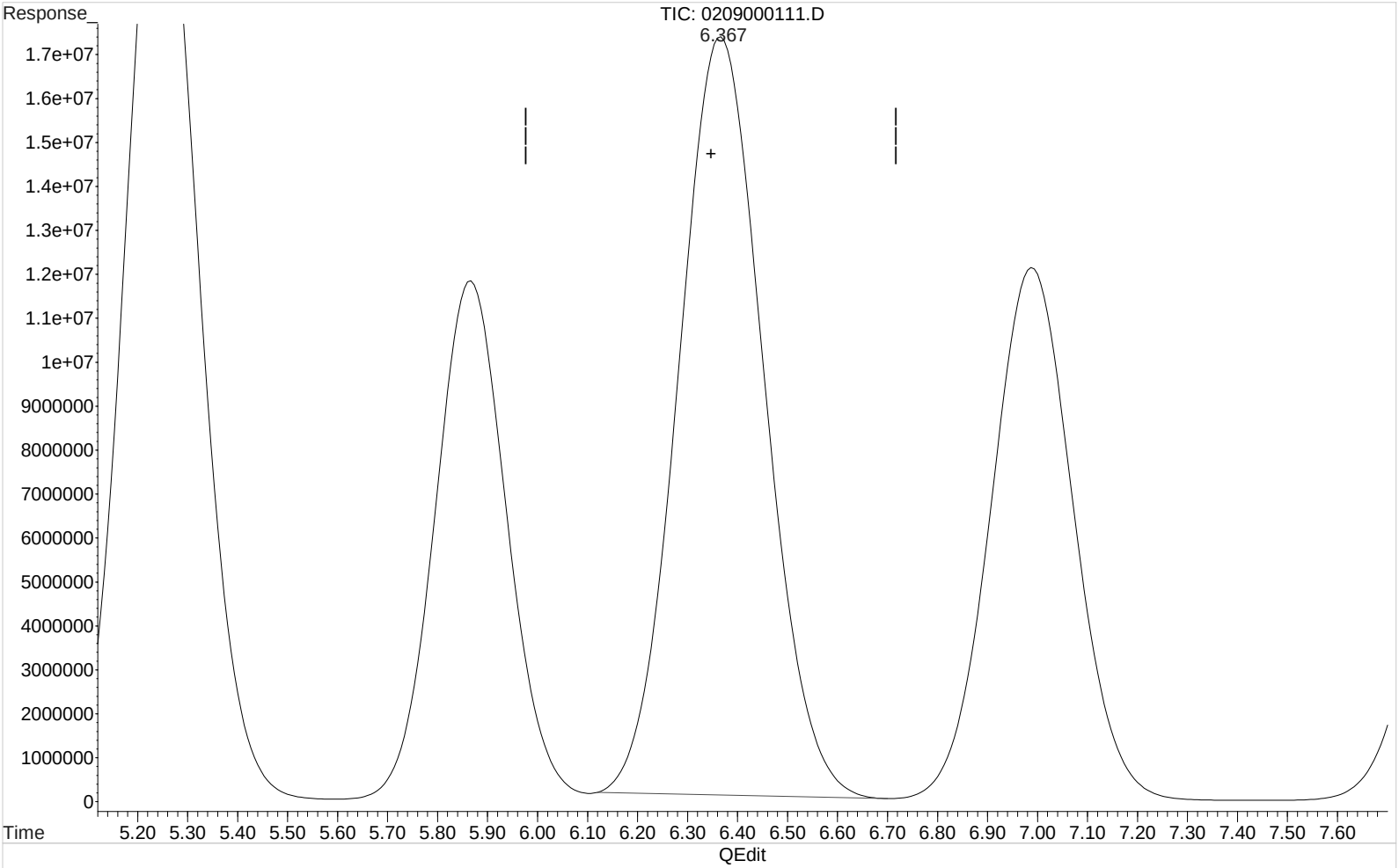
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:26:24 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:17:26 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.367min 5019.922 ug/L

response 205647048

Manual Integration:

Before

02/13/17

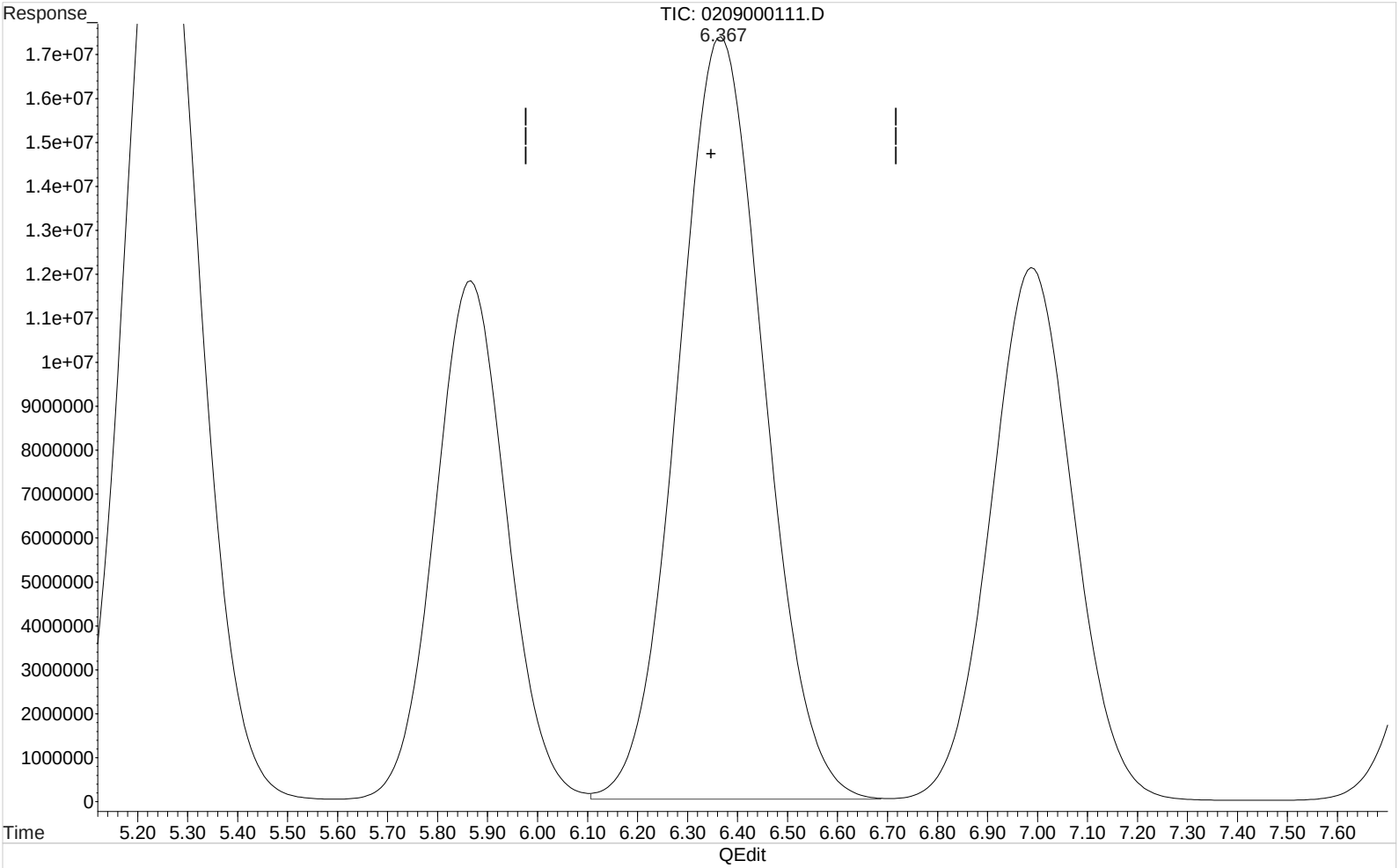
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000111.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:18:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:26:24 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:17:26 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(7) 2-Amino-4,6-DNT (T)

6.367min 5091.027 ug/L m

response 208559971

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:17:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds							
11)	S	1-Chloro-3-Nitrobenzene	8.147	257923438	10038.822	ug/L	m
Target Compounds							
1)	T	HMX	2.560	156330222	10330.871	ug/L	
2)	T	RDX	2.807	177001774	10216.476	ug/L	
3)	T	Nitrobenzene	4.493	370376696	10237.897	ug/L	
4)	T	3,5-Dinitroaniline	5.247	458842323	10169.818	ug/L	m
5)	T	4-Amino-2,6-DNT	4.873	313989796	10243.922	ug/L	m
6)	T	2-NT	5.867	236863088	10164.931	ug/L	m
7)	T	2-Amino-4,6-DNT	6.367	413821685	10205.169	ug/L	m
8)	T	3-NT	6.987	279071838	10264.235	ug/L	m
9)	T	1,3-DNB	9.140	552448178	10255.466	ug/L	
10)	T	4-NT	7.853	225919896	10001.598	ug/L	m
12)	T	2,6-DNT	8.827	240477250	10021.333	ug/L	
13)	T	2,4-DNT	14.813	504050621	10159.346	ug/L	
14)	T	Tetryl	13.000	305802840	10330.977	ug/L	
15)	T	1,3,5-TNB	19.813	409388283	10169.760	ug/L	
16)	T	2,4,6-TNT	20.800	385651394	10247.235	ug/L	

(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)

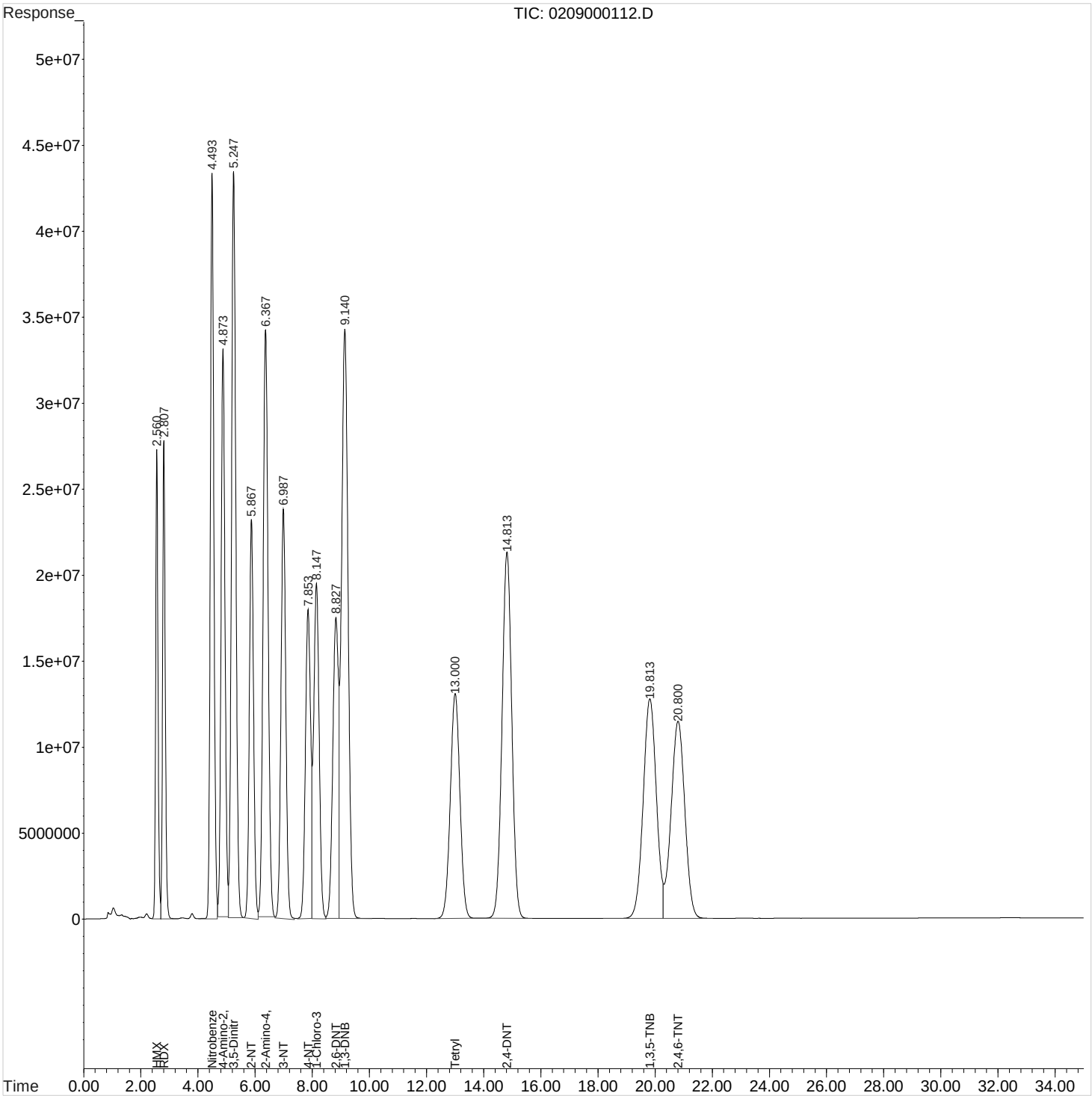
1st [redacted] 2/13/17

2n [redacted] 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:17:06 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

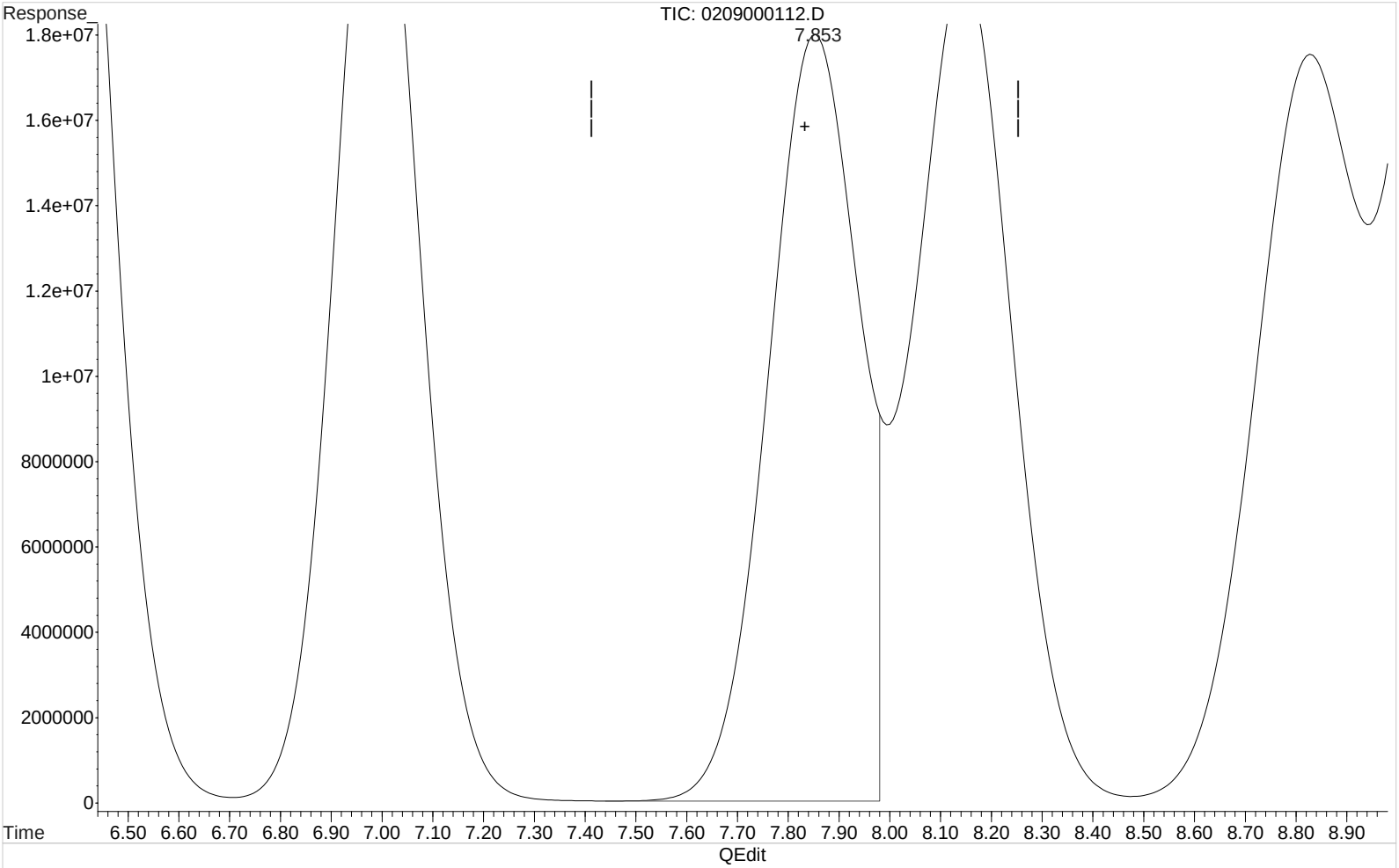


1st (b)(6) 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.853min 9829.535 ug/L

response 222033281

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

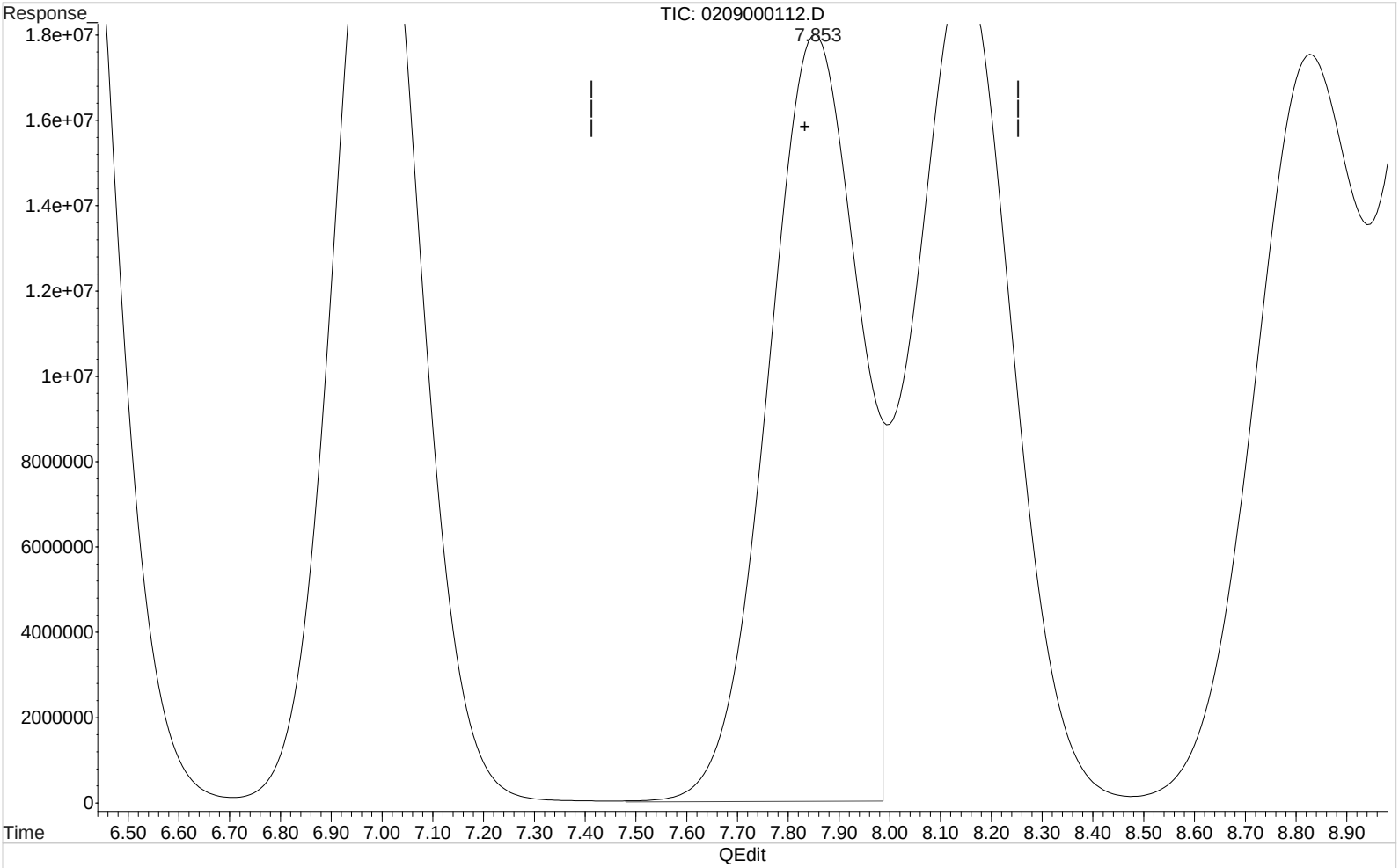
Quantitation Report (Qedit)

(b) (6)
1st [redacted] 2/13/17
2nd [redacted] 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(10) 4-NT (T)

7.853min 10001.598 ug/L m

response 225919896

Manual Integration:

After

BLC

02/13/17

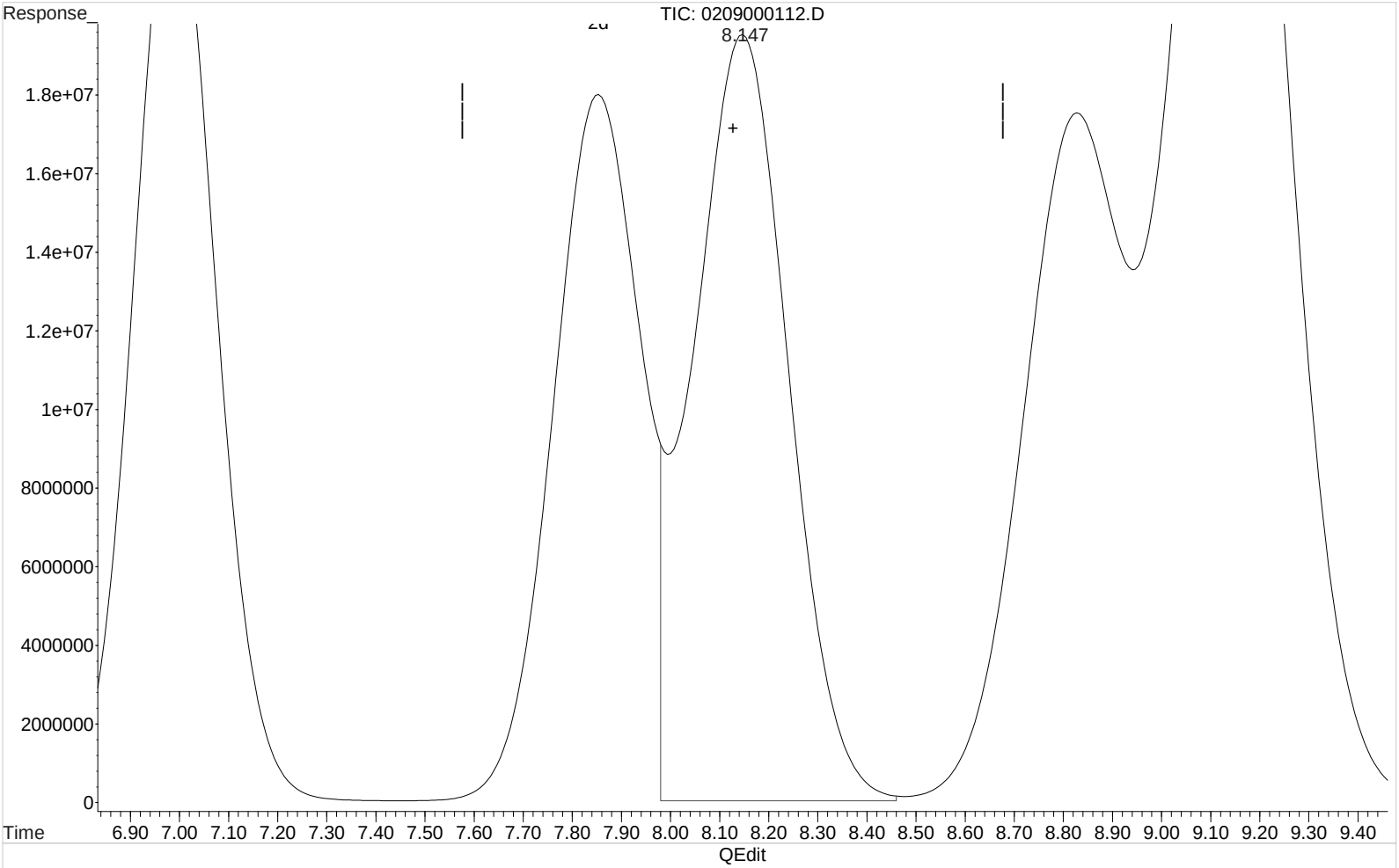
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(11) 1-Chloro-3-Nitrobenzene (S)

8.147min 10288.229 ug/L

response 264331346

Manual Integration:

Before

02/13/17

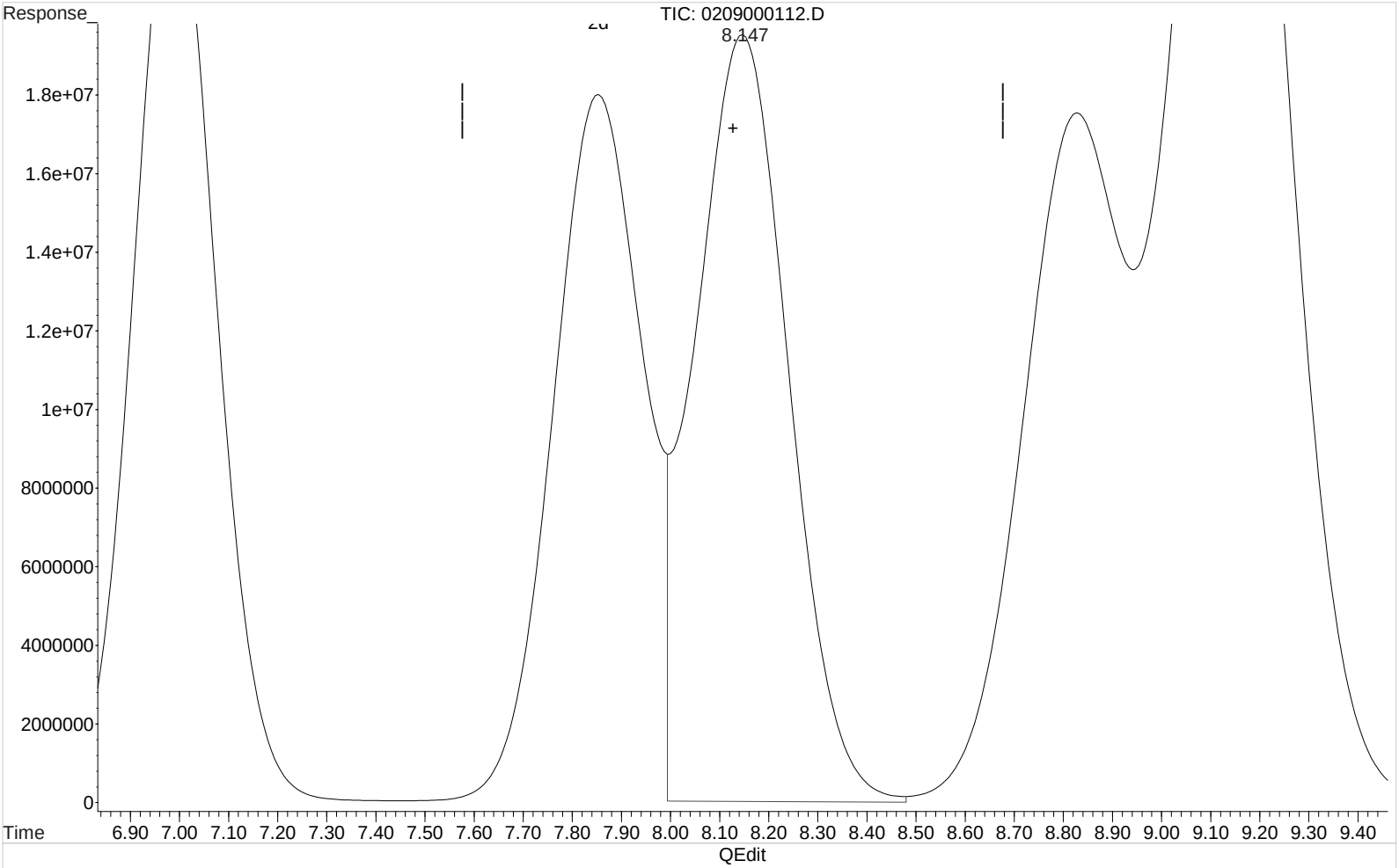
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(11) 1-Chloro-3-Nitrobenzene (S)

8.147min 10038.822 ug/L m

response 257923438

Manual Integration:

After

BLC

02/13/17

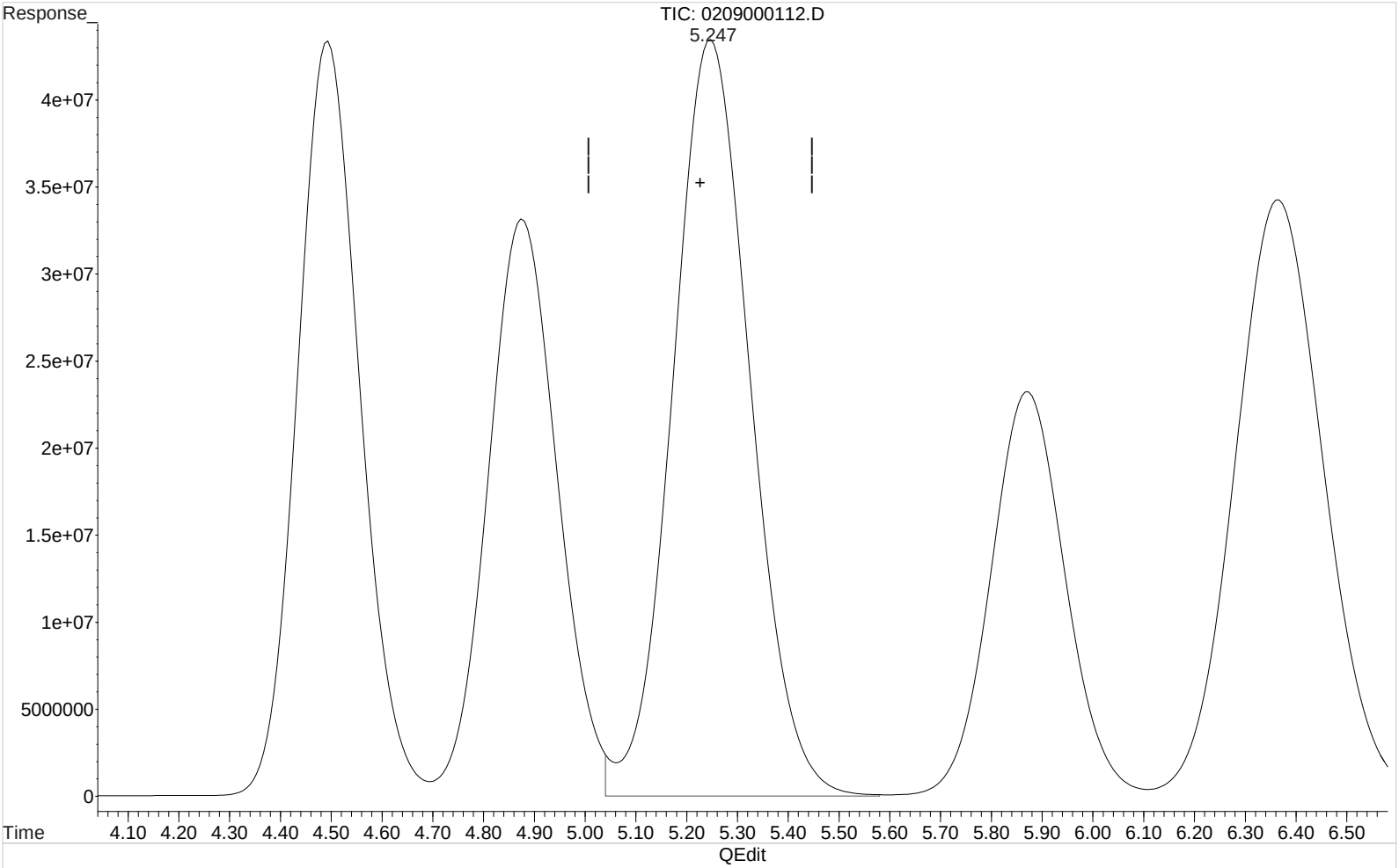
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(4) 3,5-Dinitroaniline (T)

5.247min 10267.538 ug/L

response 463251246

Manual Integration:

Before

02/13/17

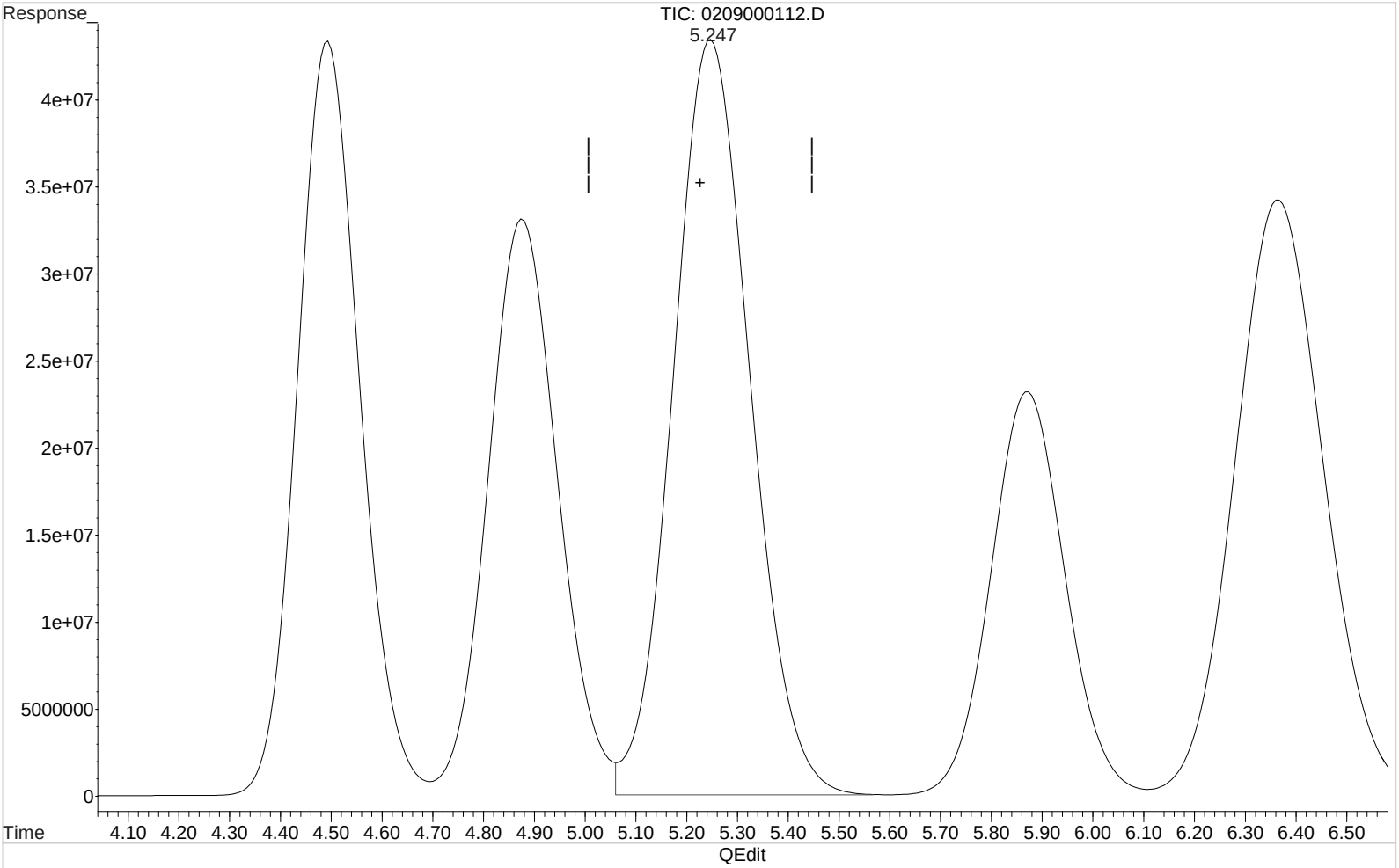
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(4) 3,5-Dinitroaniline (T)

5.247min 10169.818 ug/L m

response 458842323

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b) (6)
1st [redacted] 02/13/17
2n [redacted] 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

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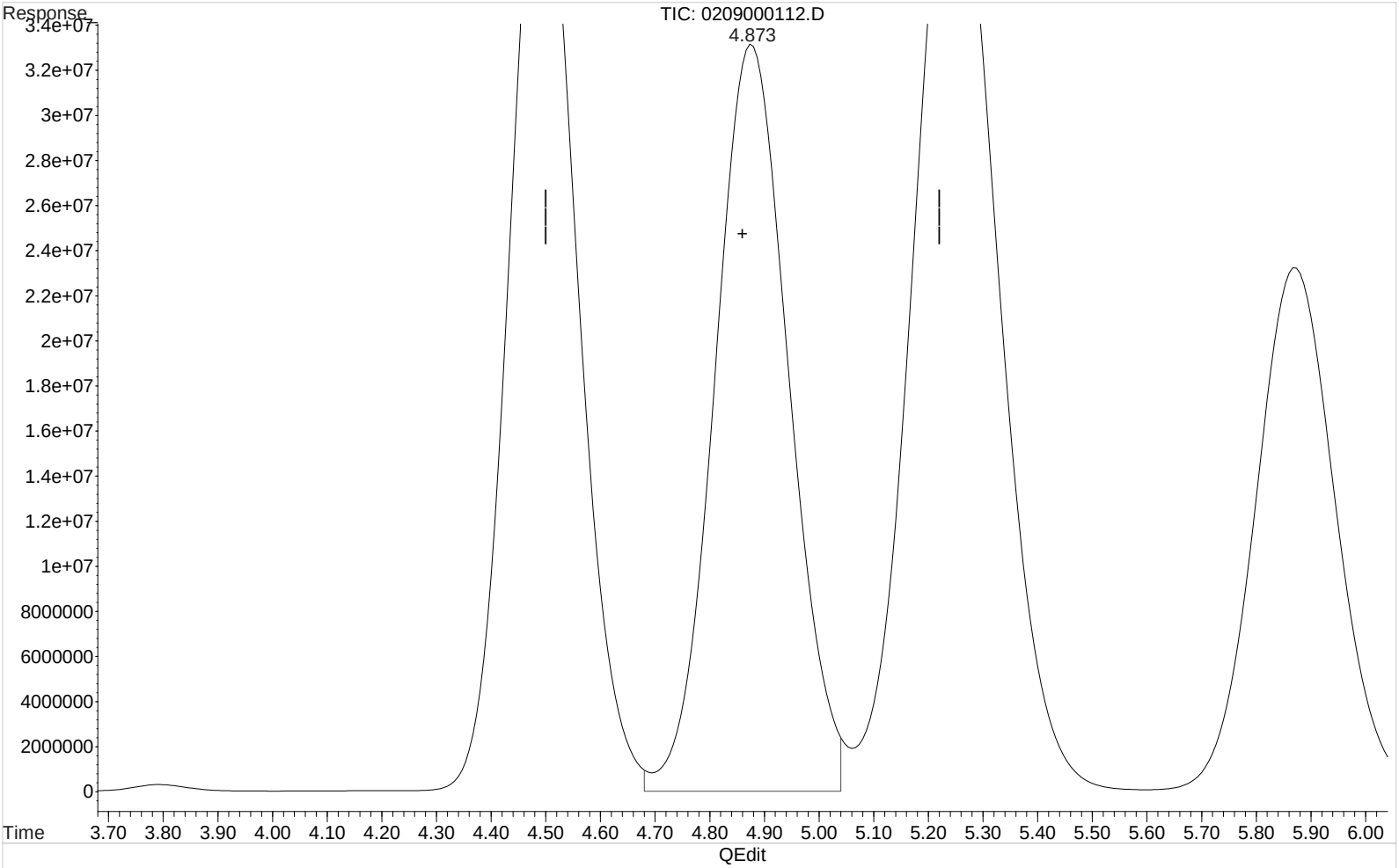
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(5) 4-Amino-2,6-DNT (T)

4.873min 10247.500 ug/L

response 314099468

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

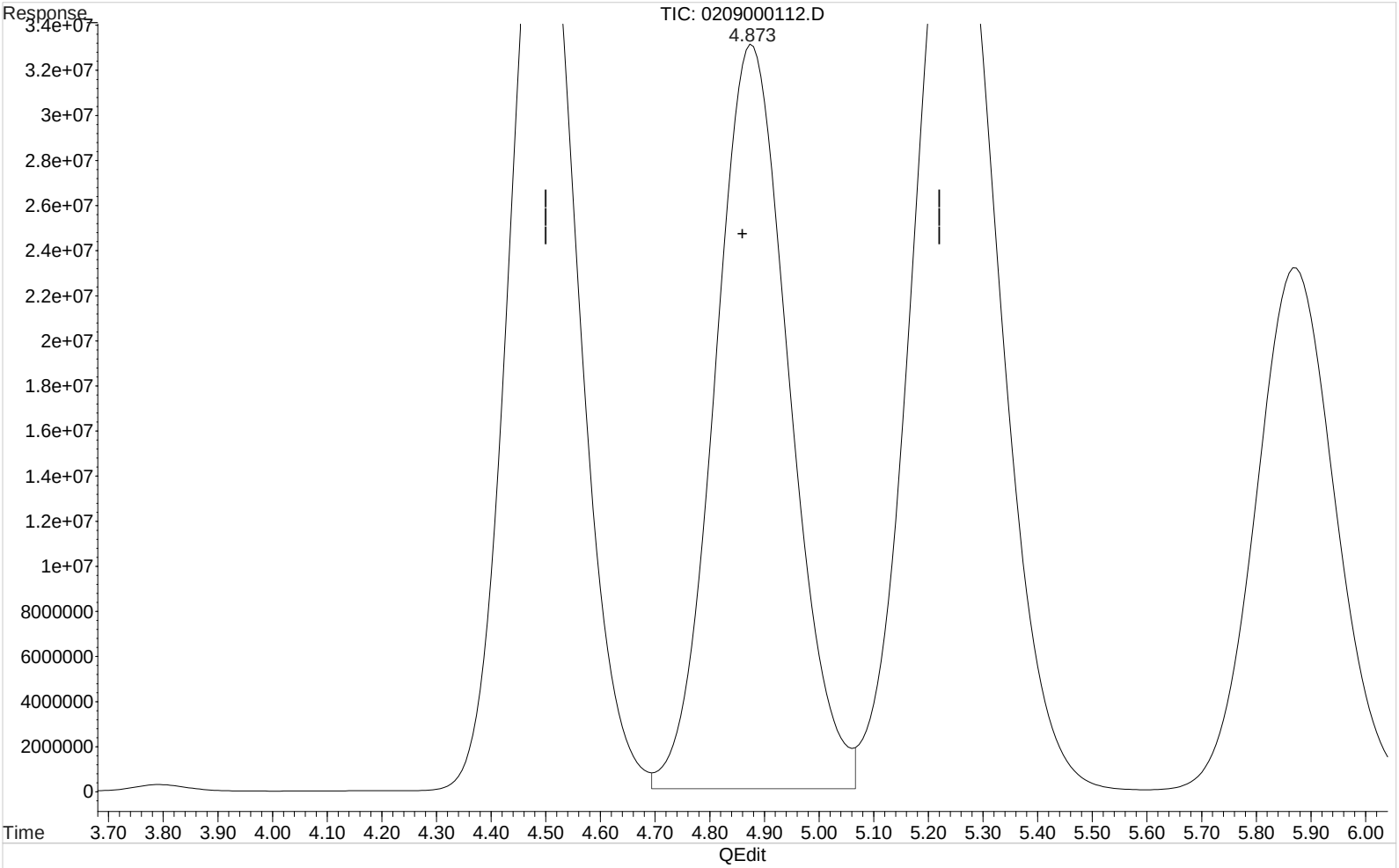
1st 02/13/17

2n 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(5) 4-Amino-2,6-DNT (T)

4.873min 10243.922 ug/L m

response 313989796

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

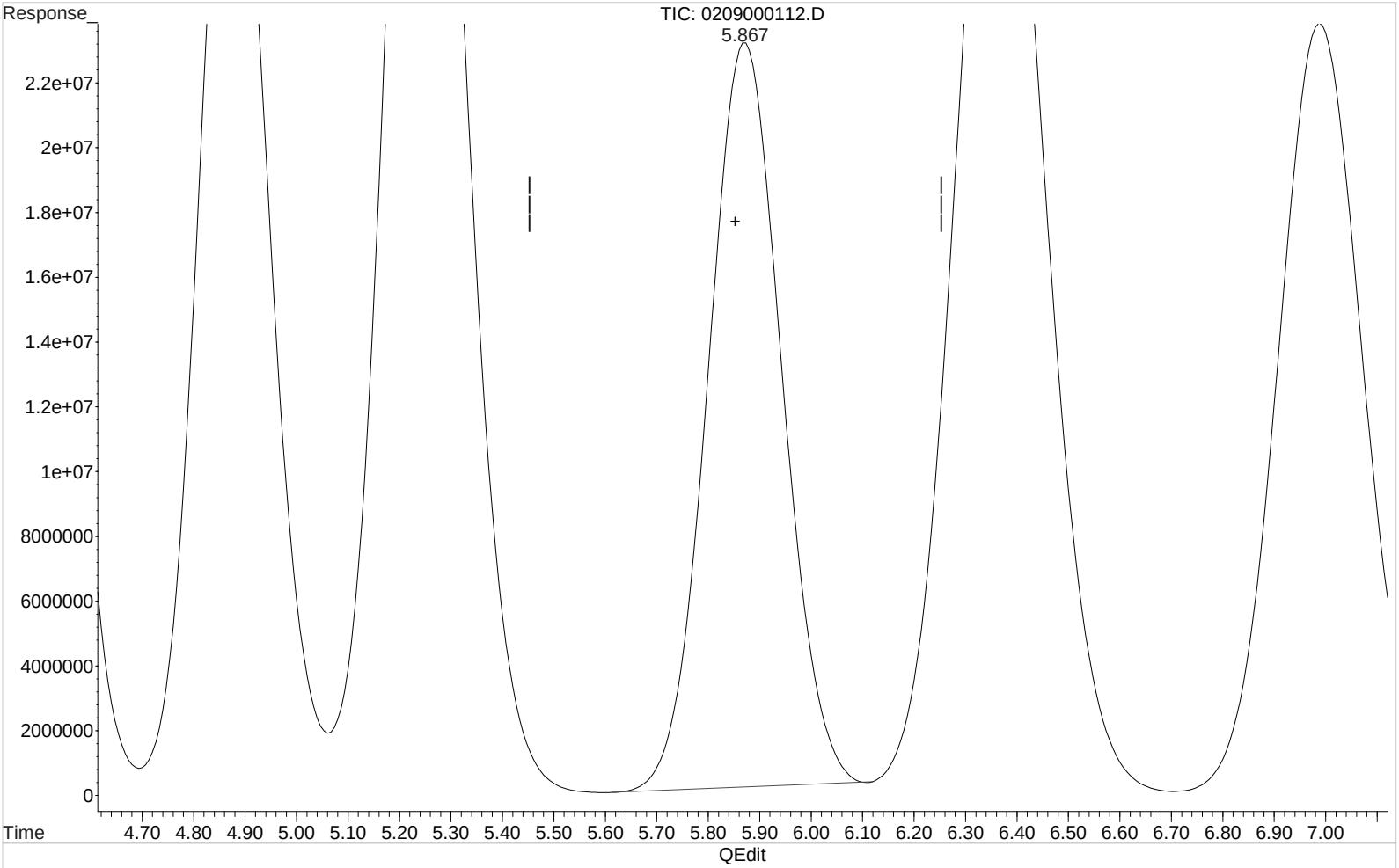
Quantitation Report (Qedit)

1st (b) (6) 2/13/17
2nd [redacted] 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.867min 9878.222 ug/L

response 230182186

Manual Integration:

Before

02/13/17

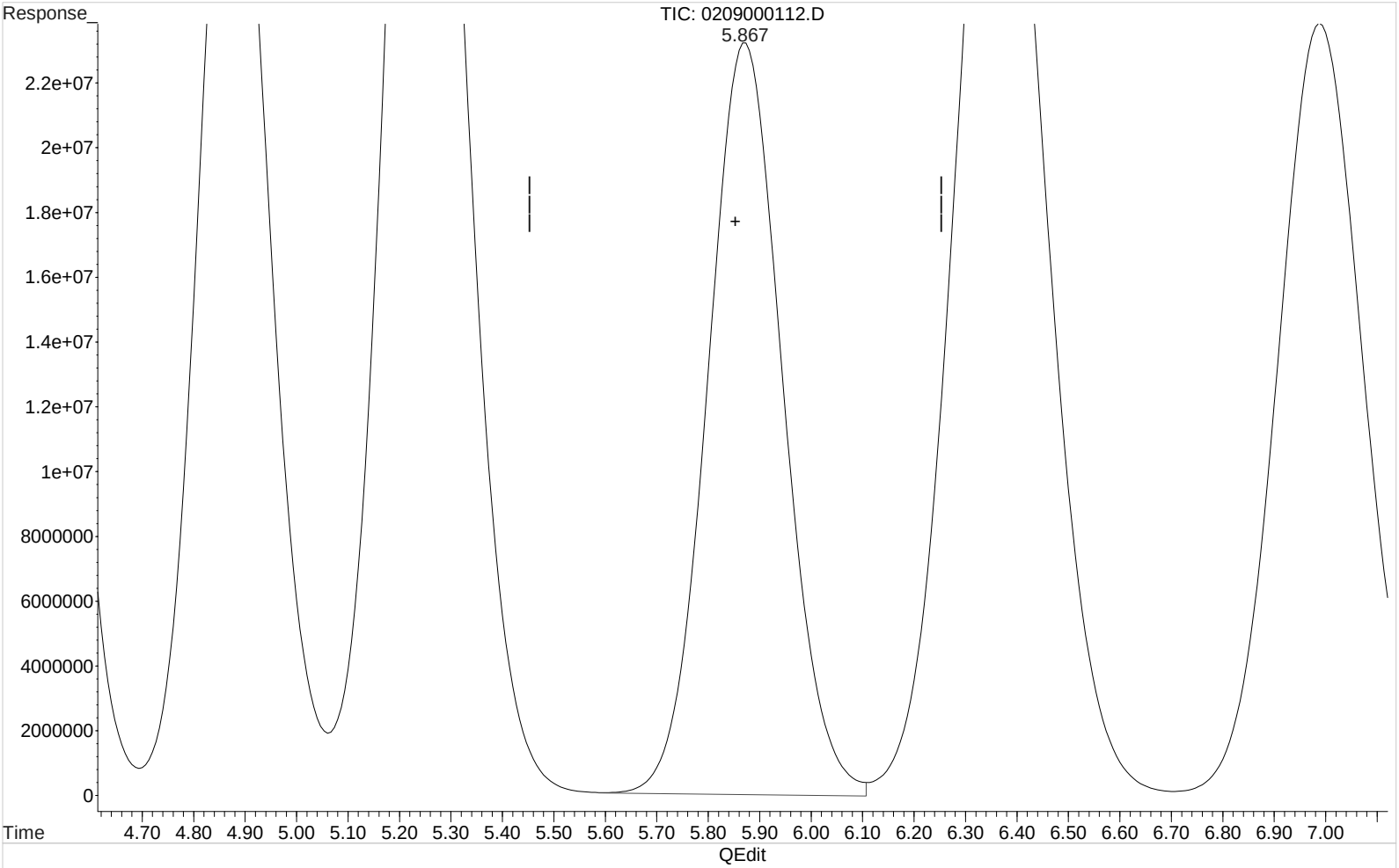
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.867min 10164.931 ug/L m

response 236863088

Manual Integration:

After

BLC

02/13/17

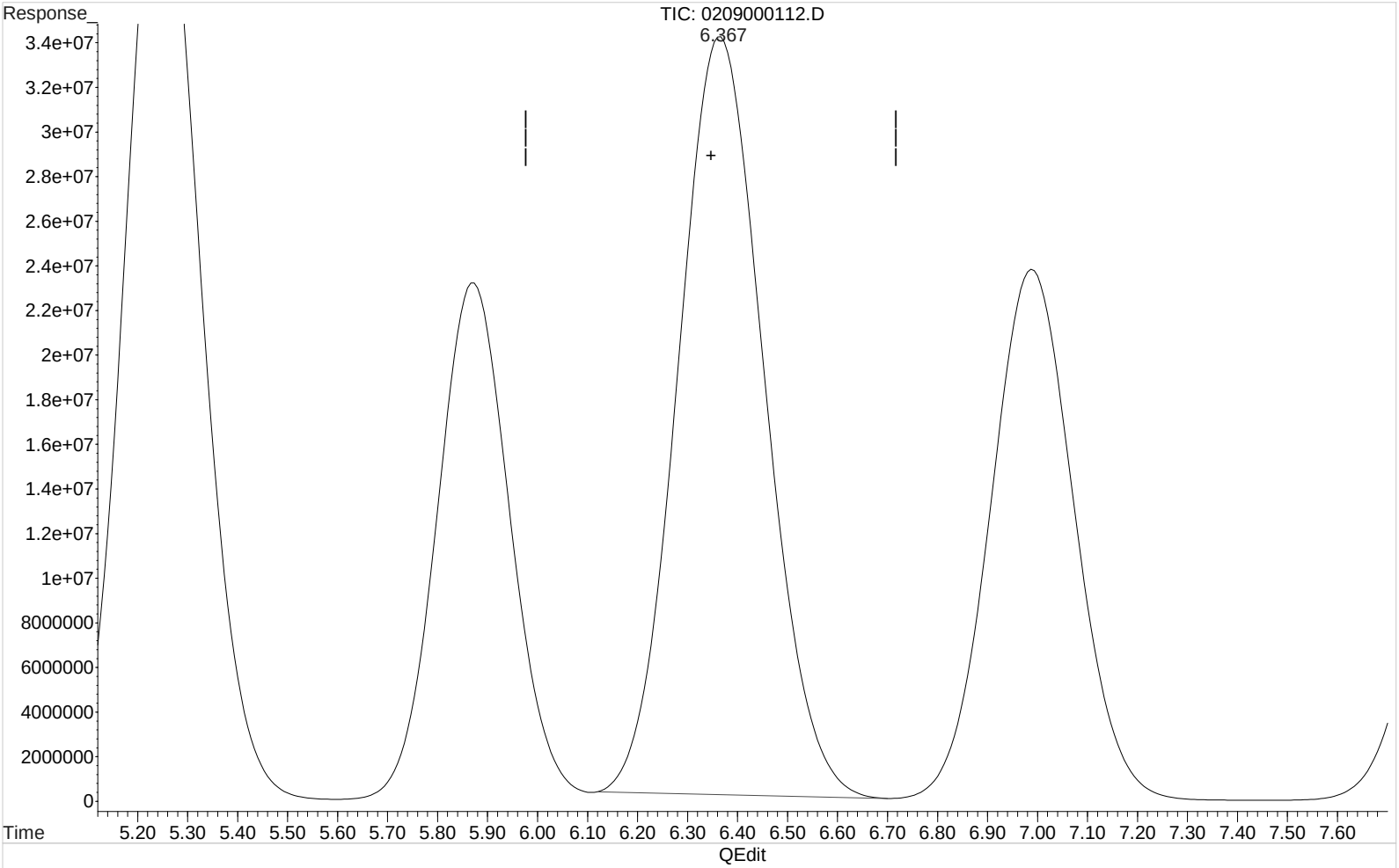
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.367min 10087.717 ug/L

response 409058973

Manual Integration:

Before

02/13/17

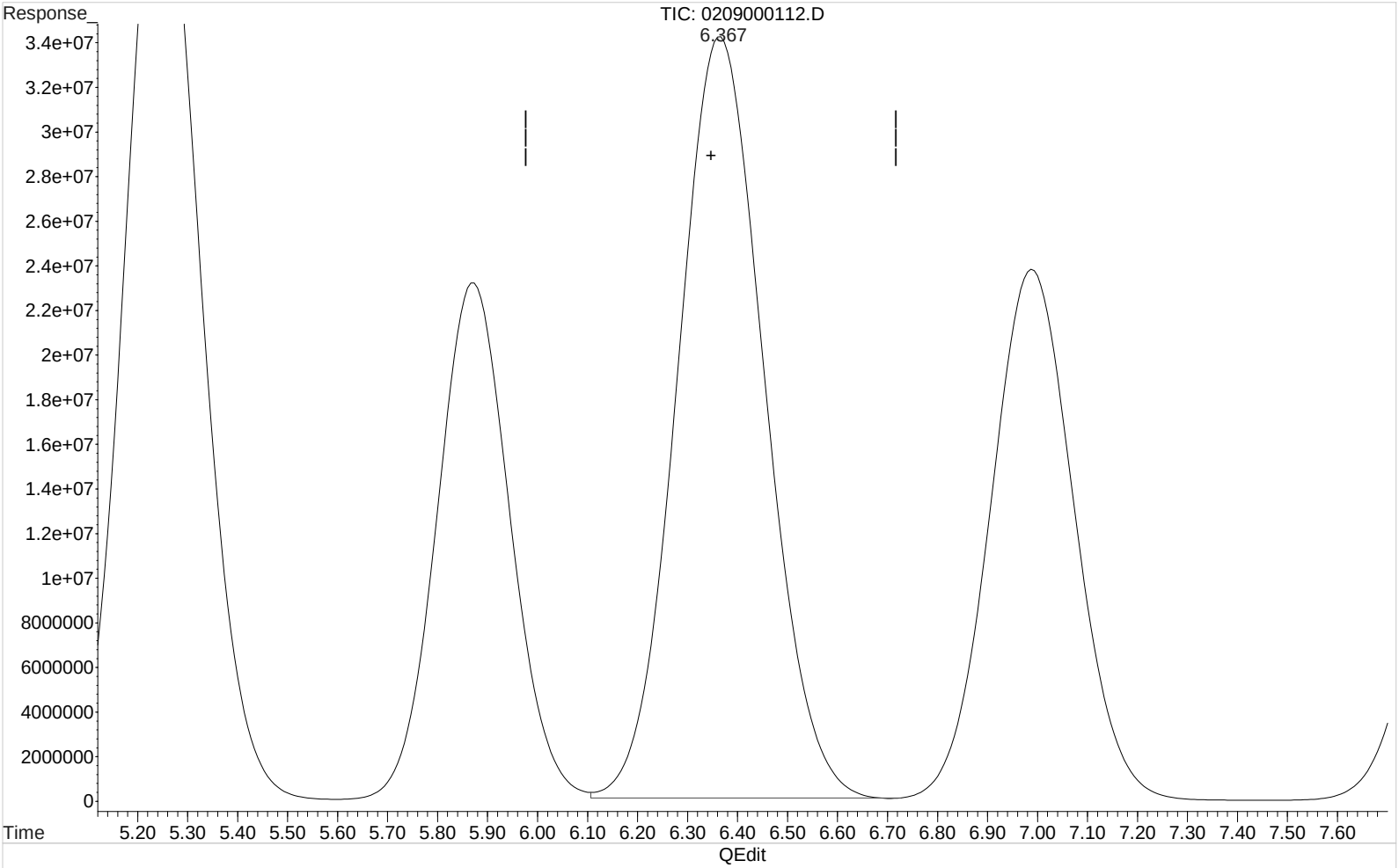
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(7) 2-Amino-4,6-DNT (T)

6.367min 10205.169 ug/L m

response 413821685

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

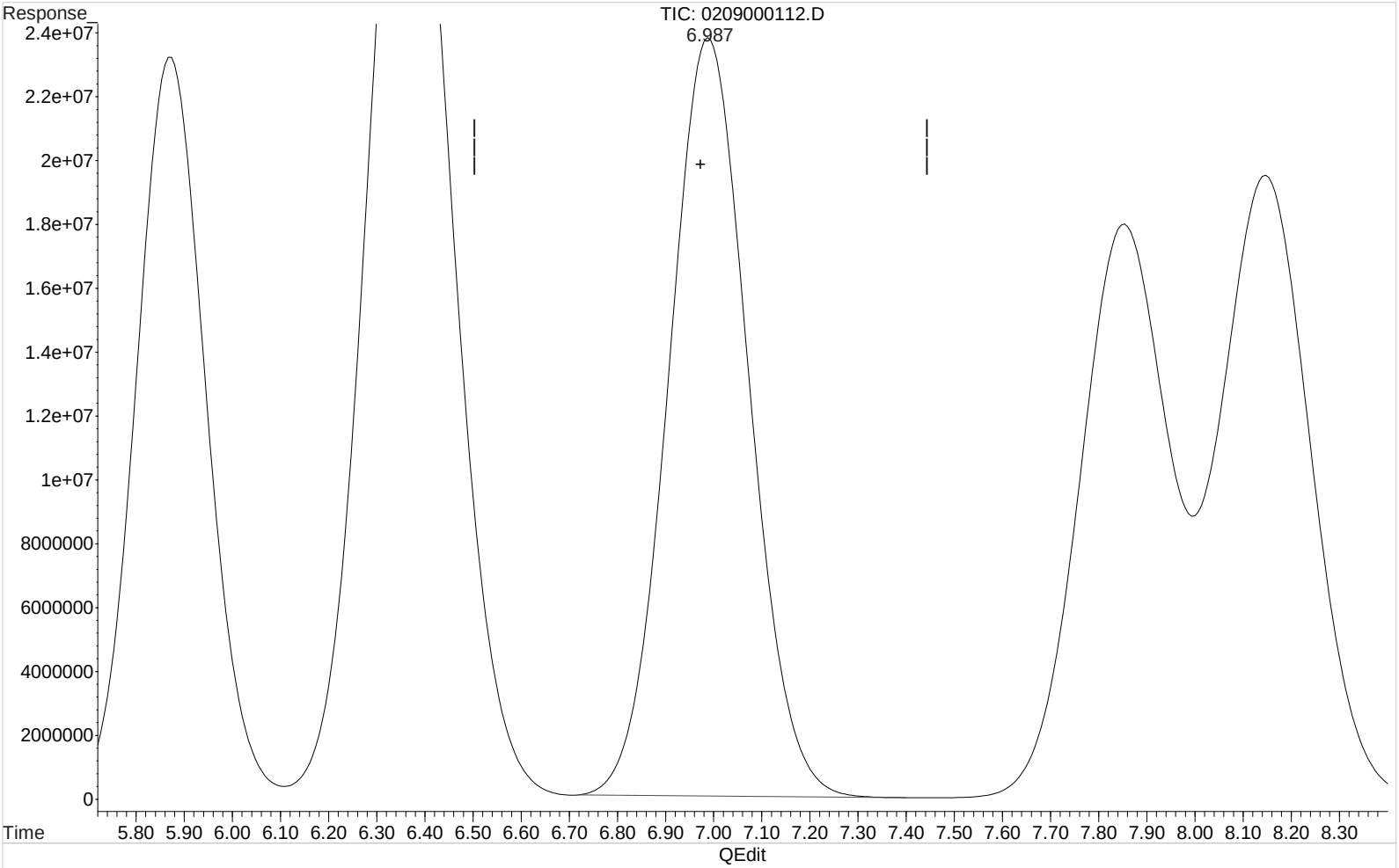
1s 02/13/17

2 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(8) 3-NT (T)

6.987min 10153.407 ug/L

response 276058564

Manual Integration:

Before

02/13/17

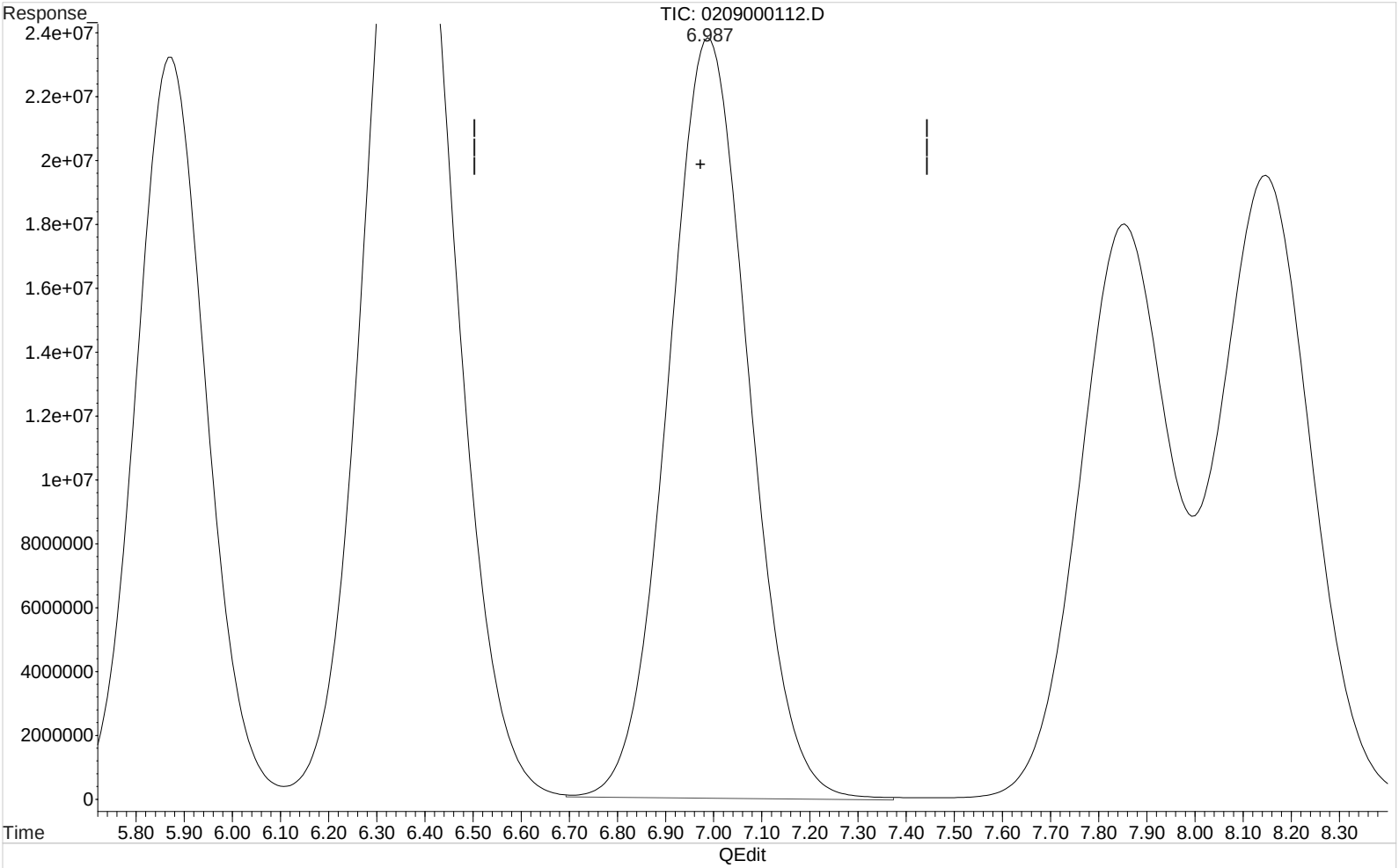
(+) = Expected Retention Time

1st (b)(6) 02/13/17
2nd 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000112.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 20:55:21 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:13:18 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:13:03 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(8) 3-NT (T)

6.987min 10264.235 ug/L m

response 279071838

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:12:35 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
11)	S	1-Chloro-3-Nitrobenzene	8.127	513851991	NoCal	ug/L	
		Target Compounds					
1)	T	HMX	2.553f	302646741	NoCal	ug/L	m
2)	T	RDX	2.800f	346502613	NoCal	ug/L	m
3)	T	Nitrobenzene	4.480	723540605	NoCal	ug/L	
4)	T	3,5-Dinitroaniline	5.227	902360936	NoCal	ug/L	
5)	T	4-Amino-2,6-DNT	4.860	613026515	NoCal	ug/L	
6)	T	2-NT	5.853	466039716	NoCal	ug/L	
7)	T	2-Amino-4,6-DNT	6.347	811004098	NoCal	ug/L	m
8)	T	3-NT	6.973	543775210	NoCal	ug/L	m
9)	T	1,3-DNB	9.120	1077373089	NoCal	ug/L	m
10)	T	4-NT	7.833	451767608	NoCal	ug/L	
12)	T	2,6-DNT	8.807	479930654	NoCal	ug/L	m
13)	T	2,4-DNT	14.800	992289543	NoCal	ug/L	
14)	T	Tetryl	12.987	592011460	NoCal	ug/L	
15)	T	1,3,5-TNB	19.800f	805109064	NoCal	ug/L	m
16)	T	2,4,6-TNT	20.780f	752693580	NoCal	ug/L	

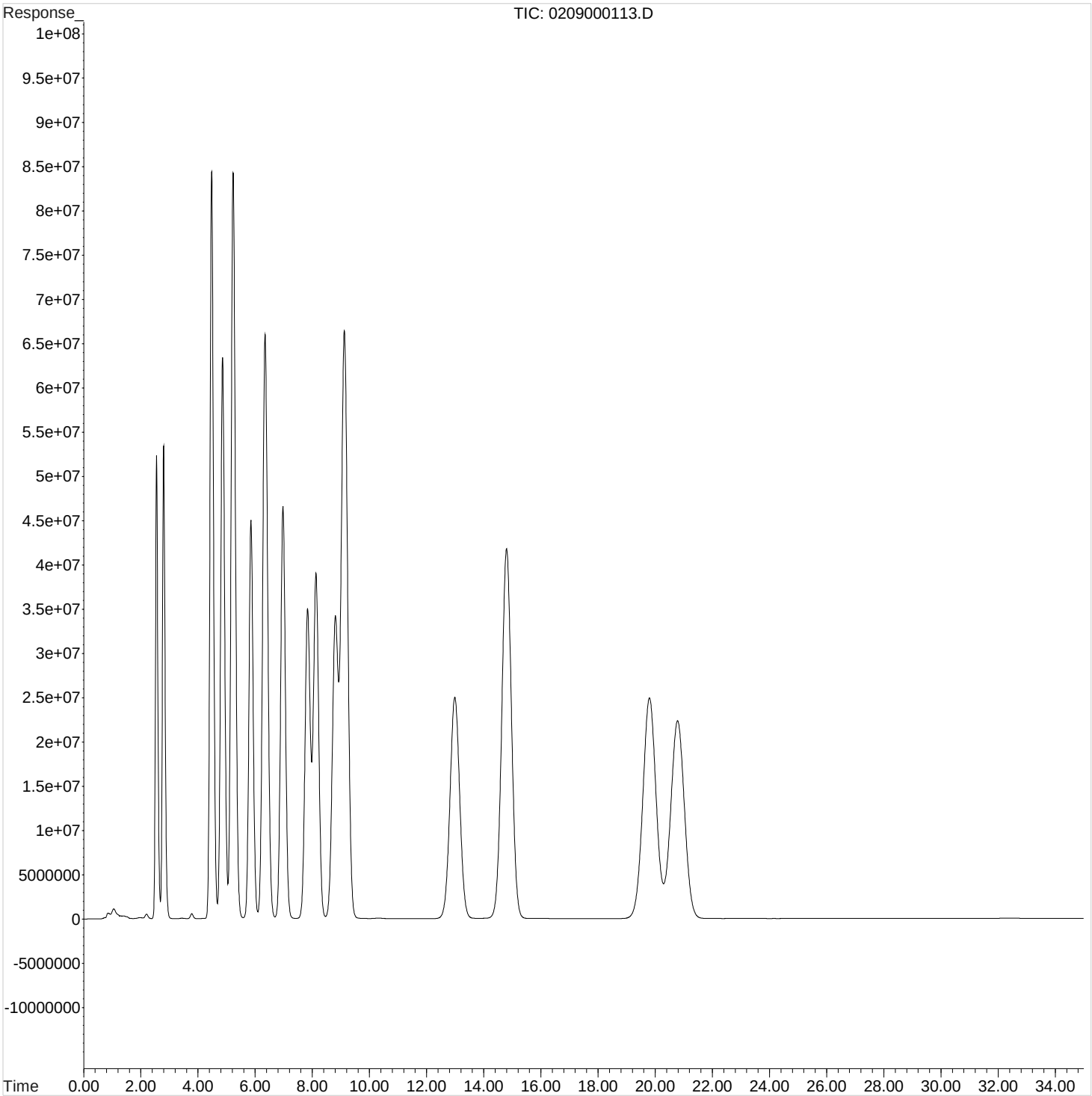
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:12:35 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

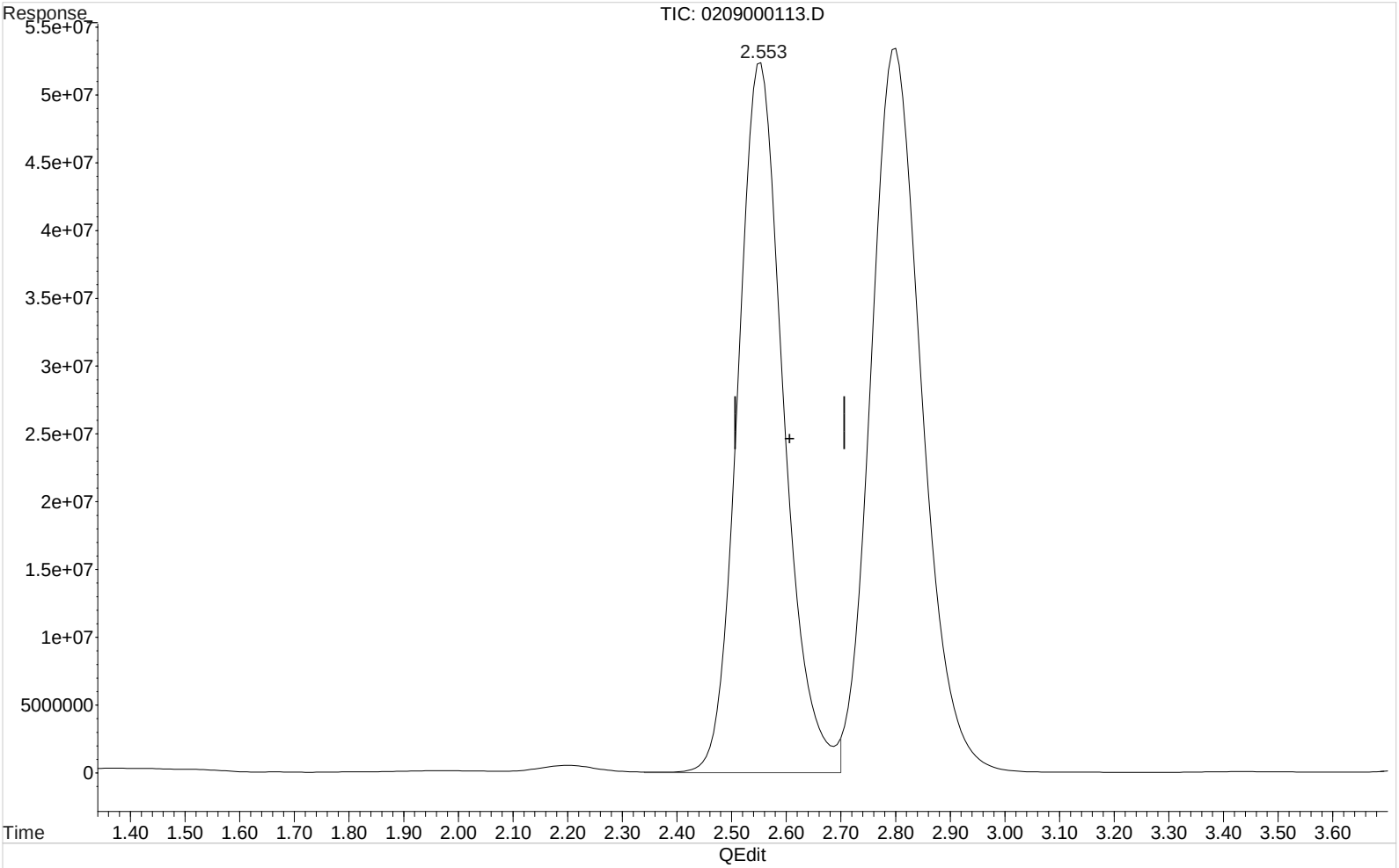


1st (b) (6) 2/13/17
2nd 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:19 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.553min 0.000 ug/L

response 305316401

Manual Integration:

Before

02/13/17

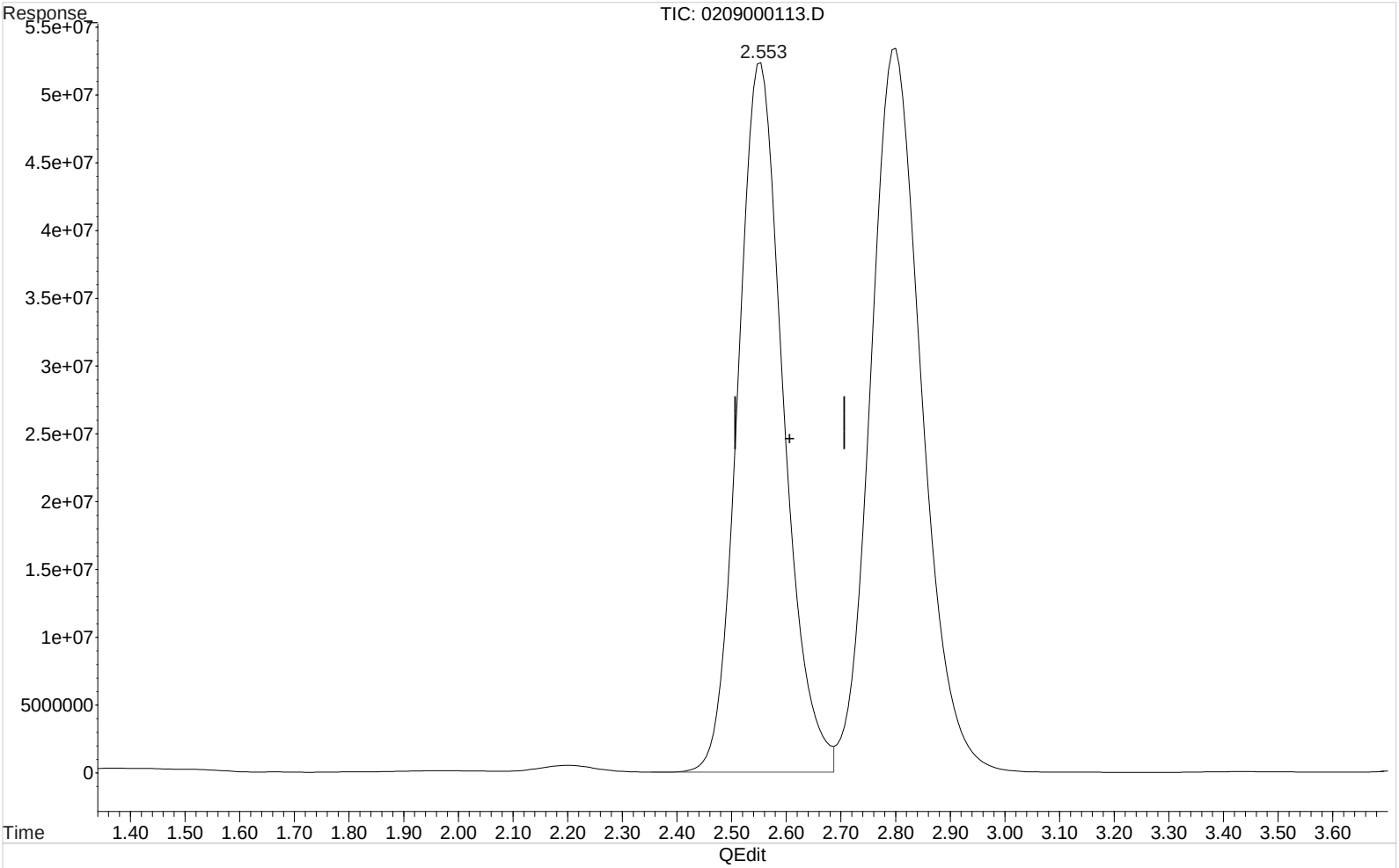
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:19 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(1) HMX (T)

2.553min 0.000 ug/L m

response 302646741

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

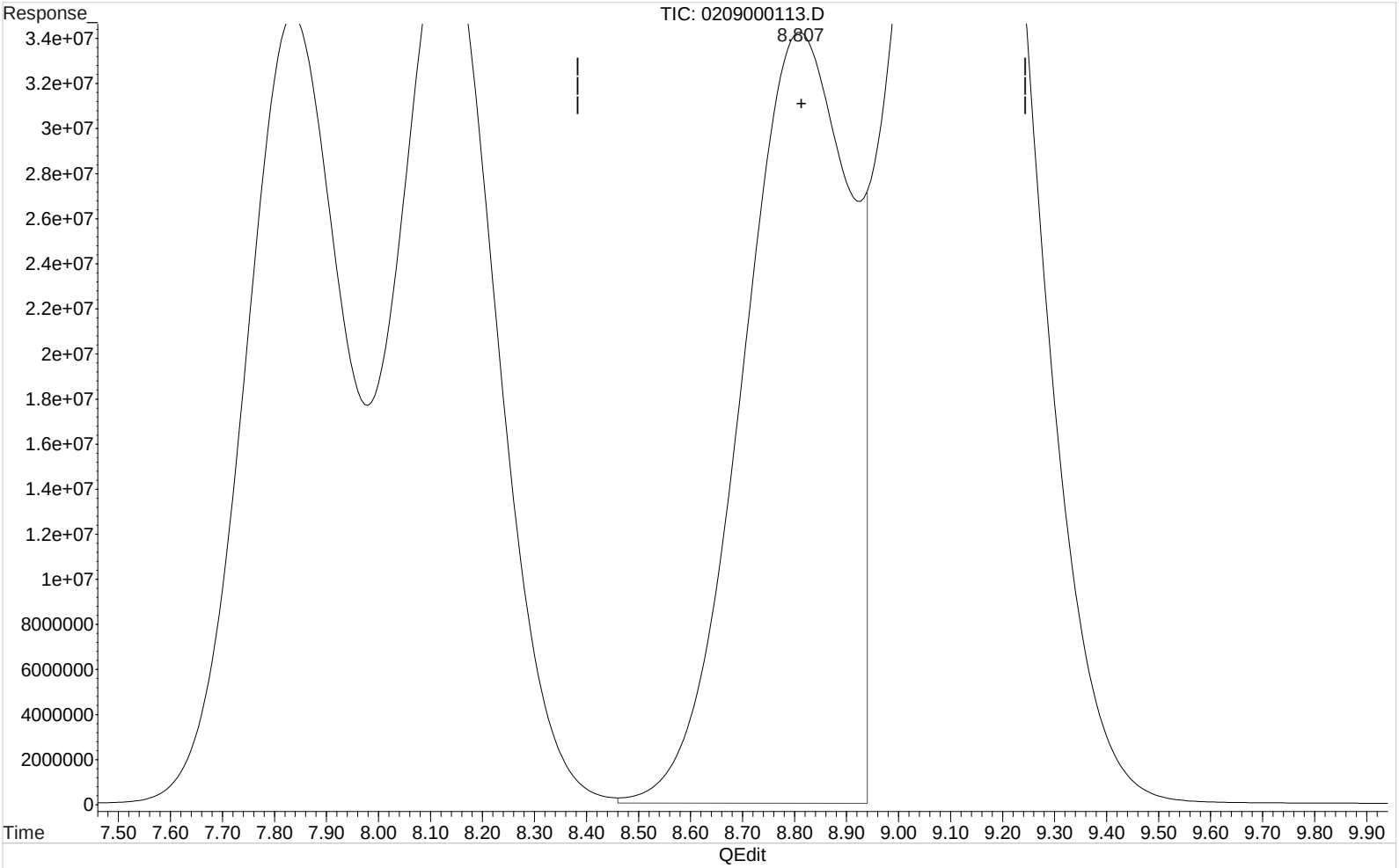
Quantitation Report (Qedit)

(b) (6)
1st 2/13/17
2n 2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(12) 2,6-DNT (T)

8.807min 0.000 ug/L

response 500177008

Manual Integration:

Before

02/13/17

(+) = Expected Retention Time

(b) (6)

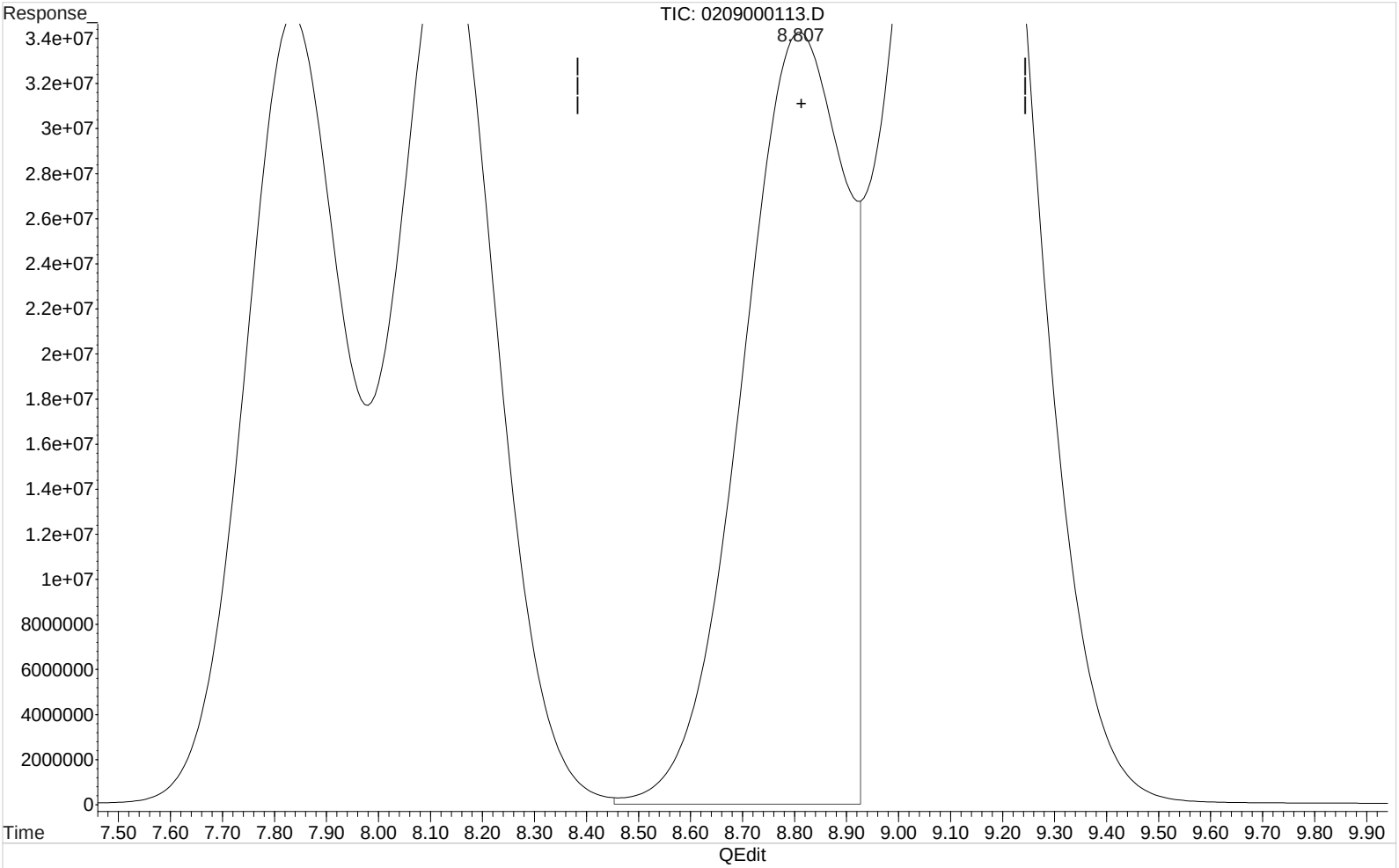
1 02/13/17

2 02/17/17

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(12) 2,6-DNT (T)

8.807min 0.000 ug/L m

response 479930654

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

(b) (6)

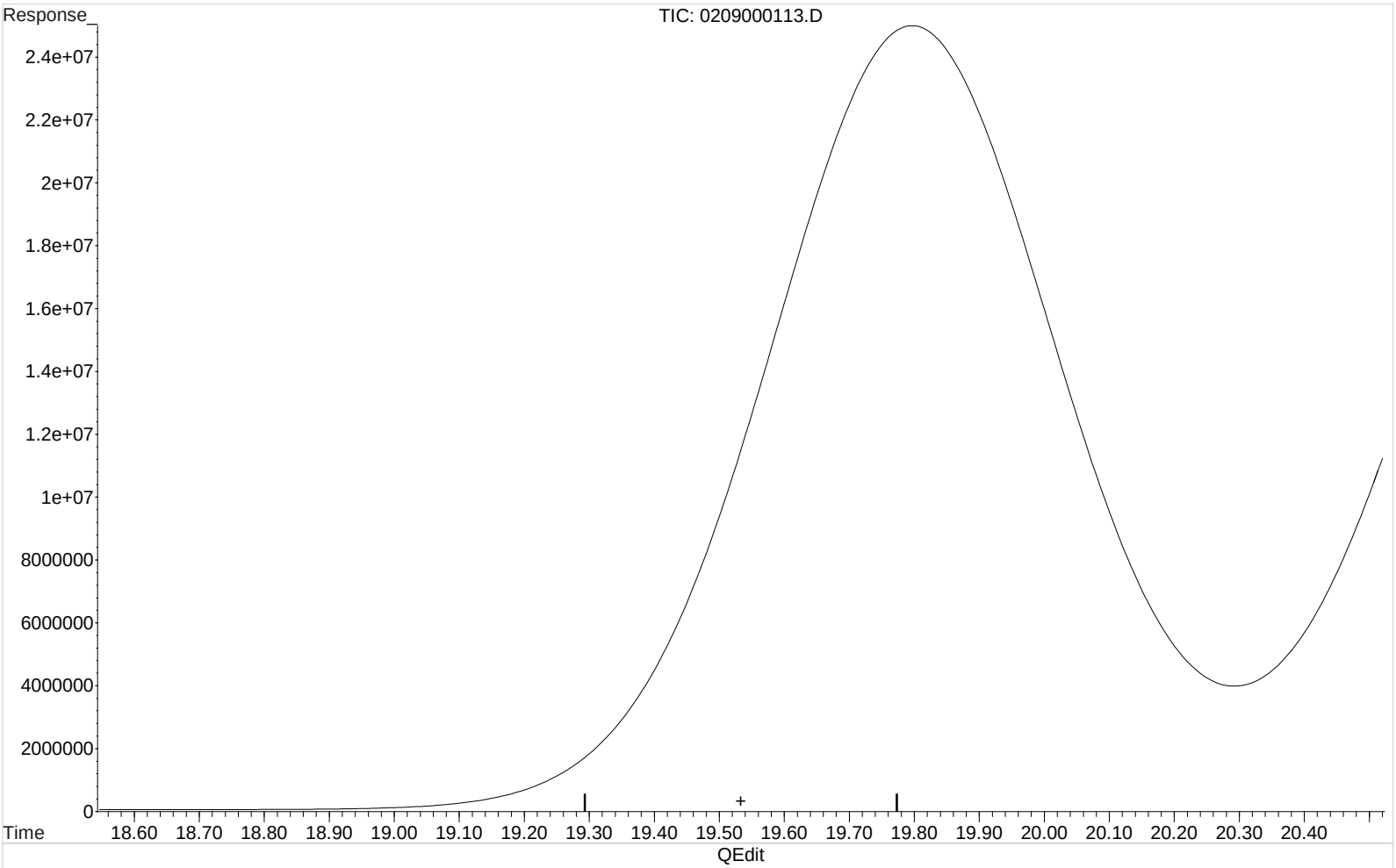
2/13/17

2/17/17

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(15) 1,3,5-TNB (T)

19.533min 0.000 ug/L

response 0

Manual Integration:

Before

02/13/17

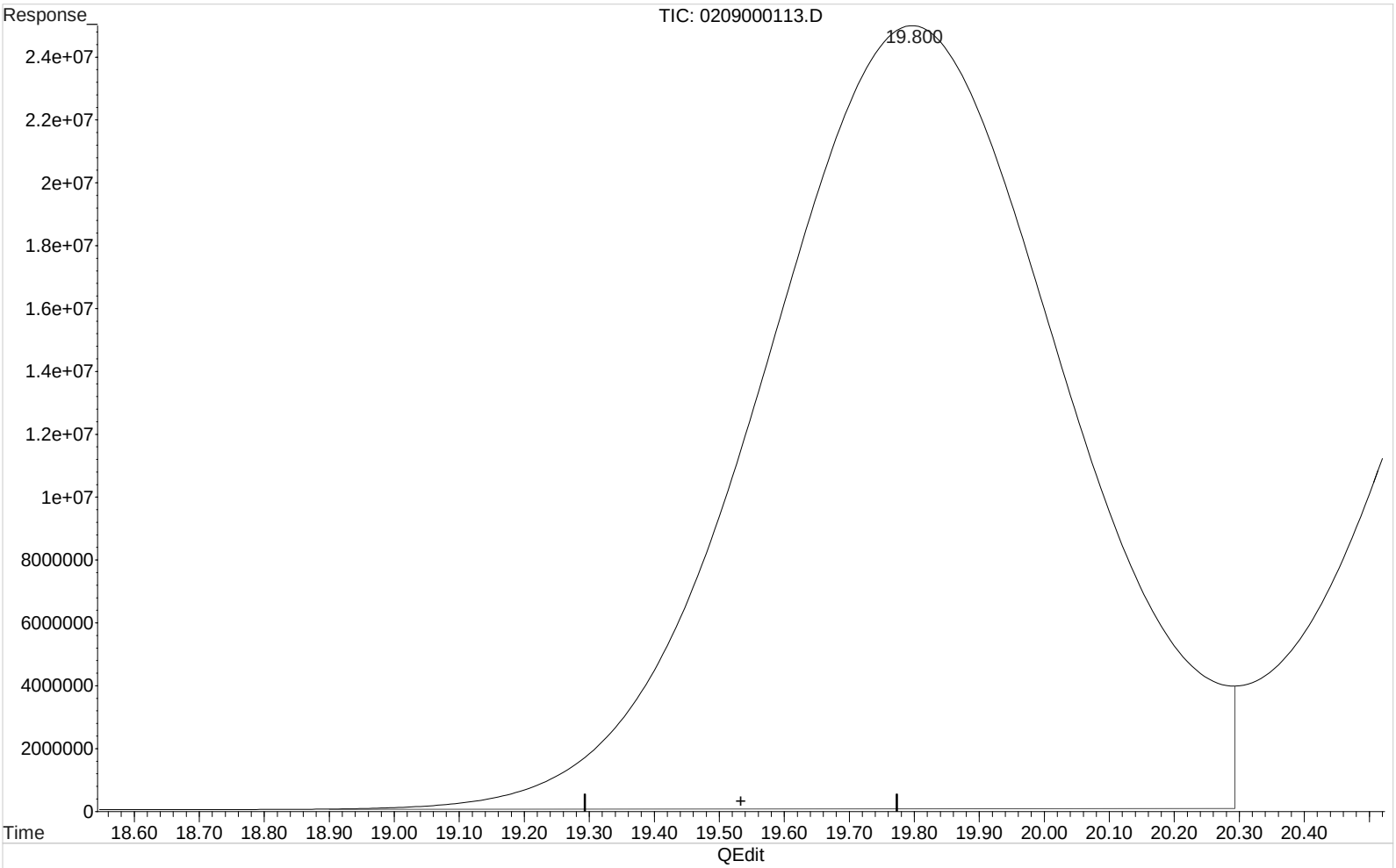
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(15) 1,3,5-TNB (T)

19.800min 0.000 ug/L m

response 805109064

Manual Integration:

After

BLC

02/13/17

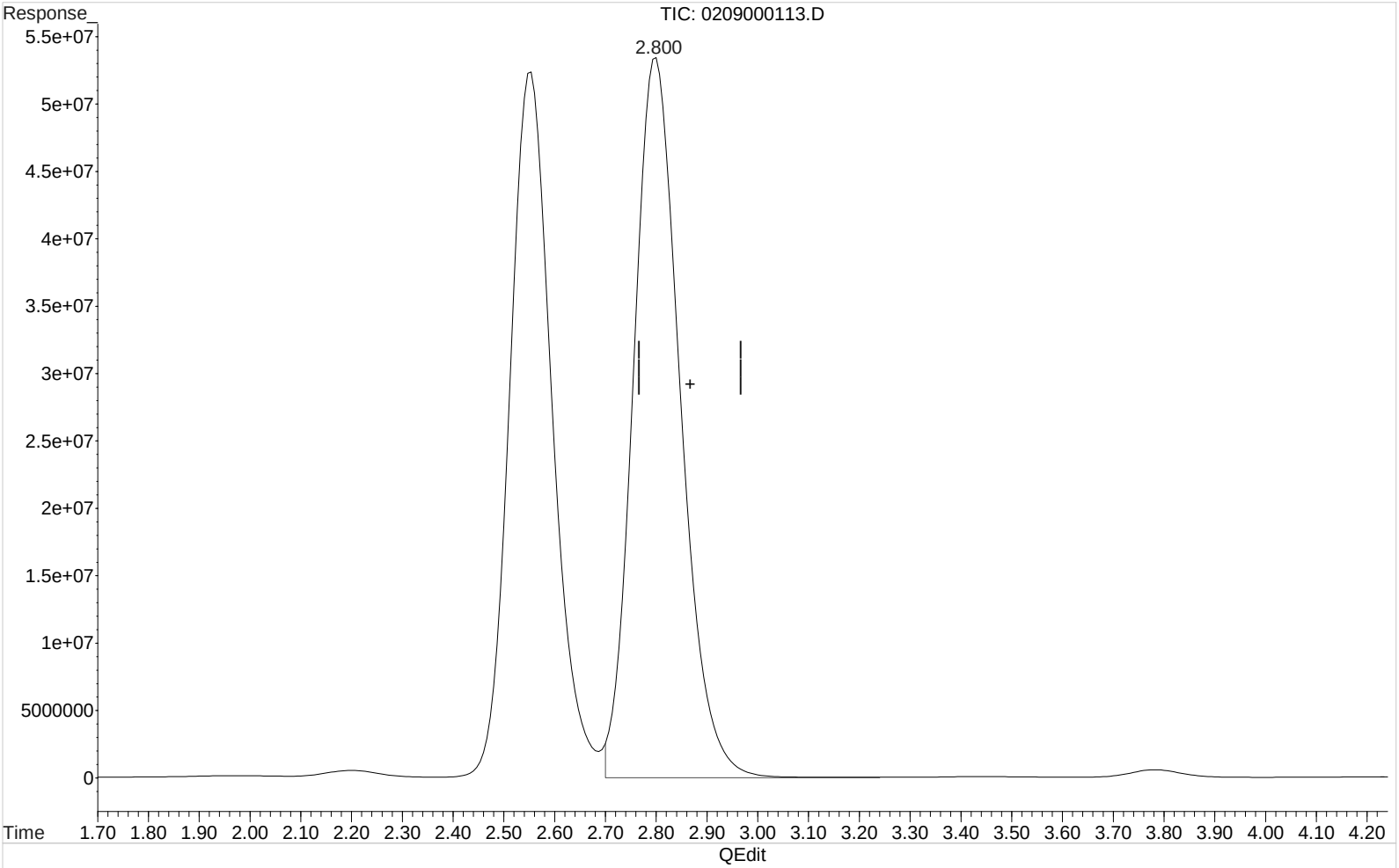
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:19 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(2) RDX (T)

2.800min 0.000 ug/L

response 343726550

Manual Integration:

Before

02/13/17

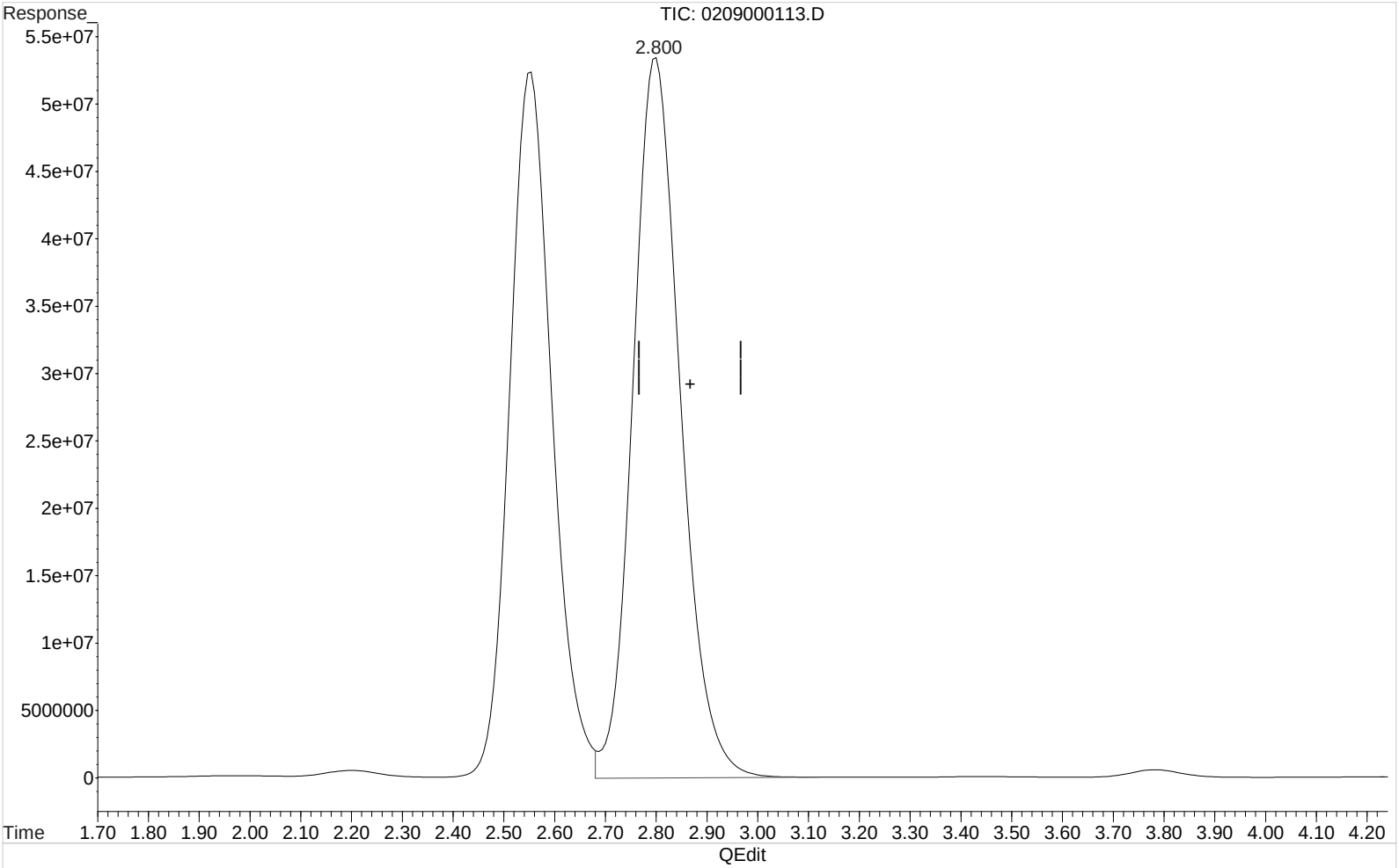
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:19 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(2) RDX (T)

2.800min 0.000 ug/L m

response 346502613

Manual Integration:

After

BLC

02/13/17

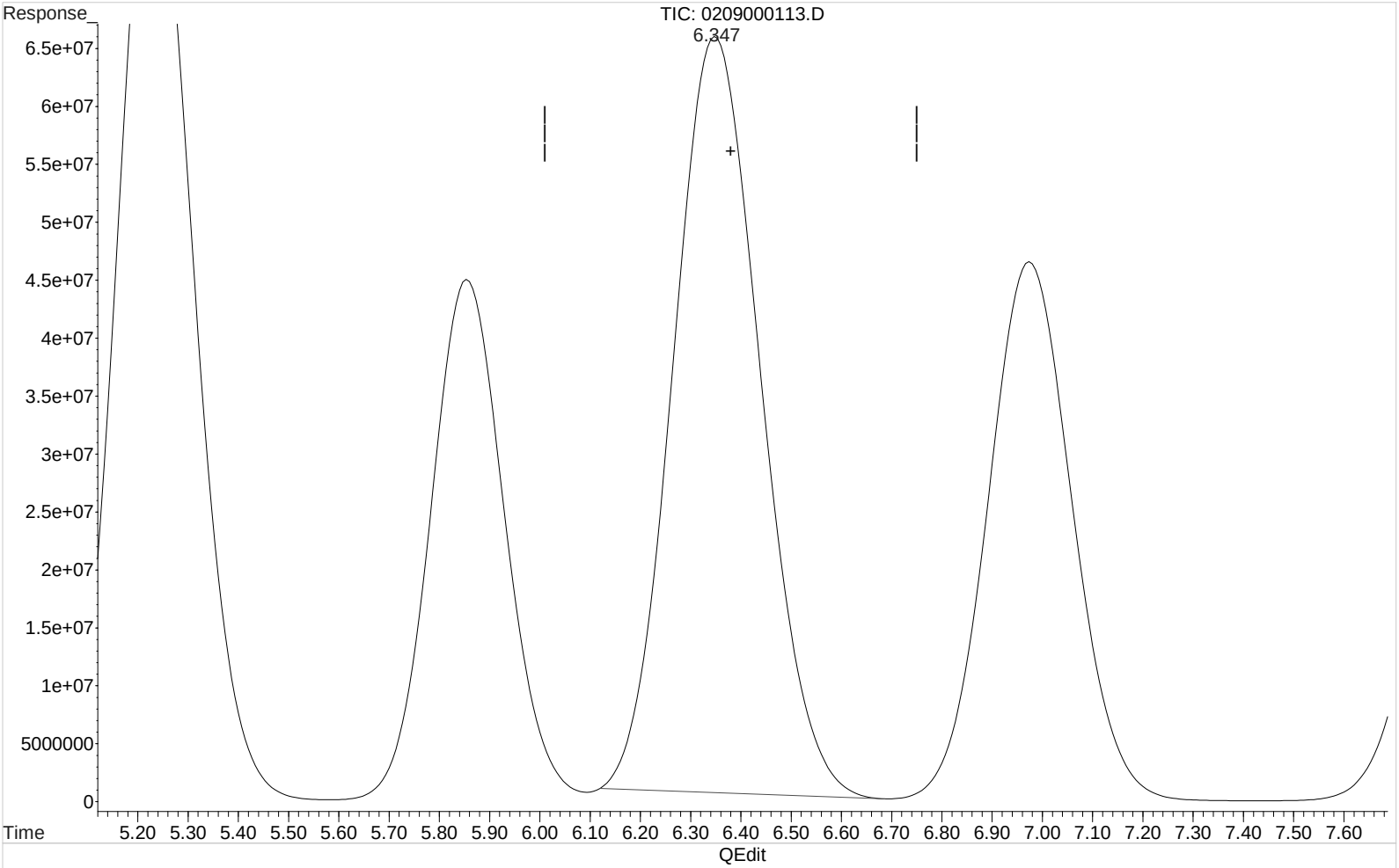
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.347min 0.000 ug/L

response 793832791

Manual Integration:

Before

02/13/17

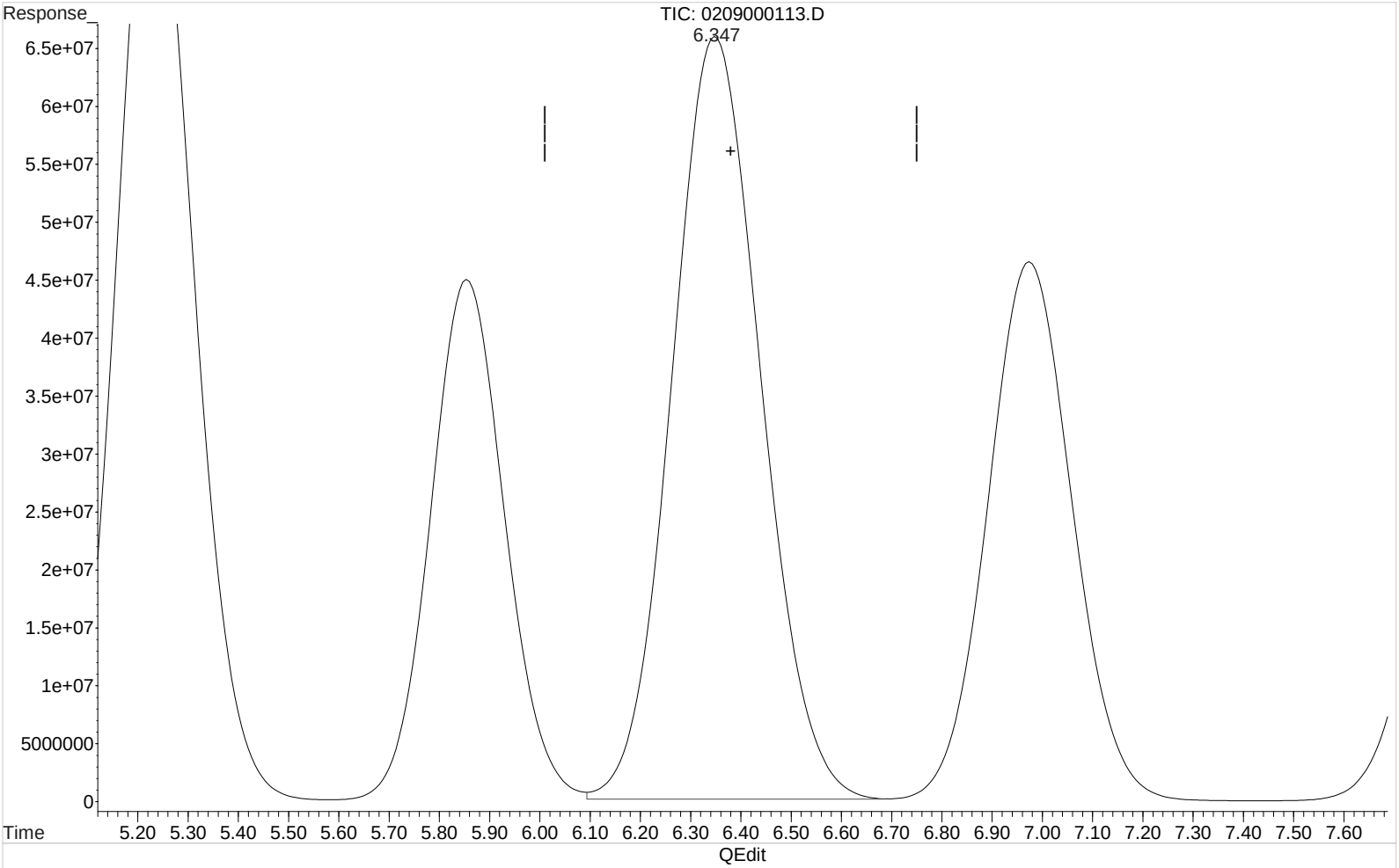
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.347min 0.000 ug/L m

response 811004098

Manual Integration:

After

BLC

02/13/17

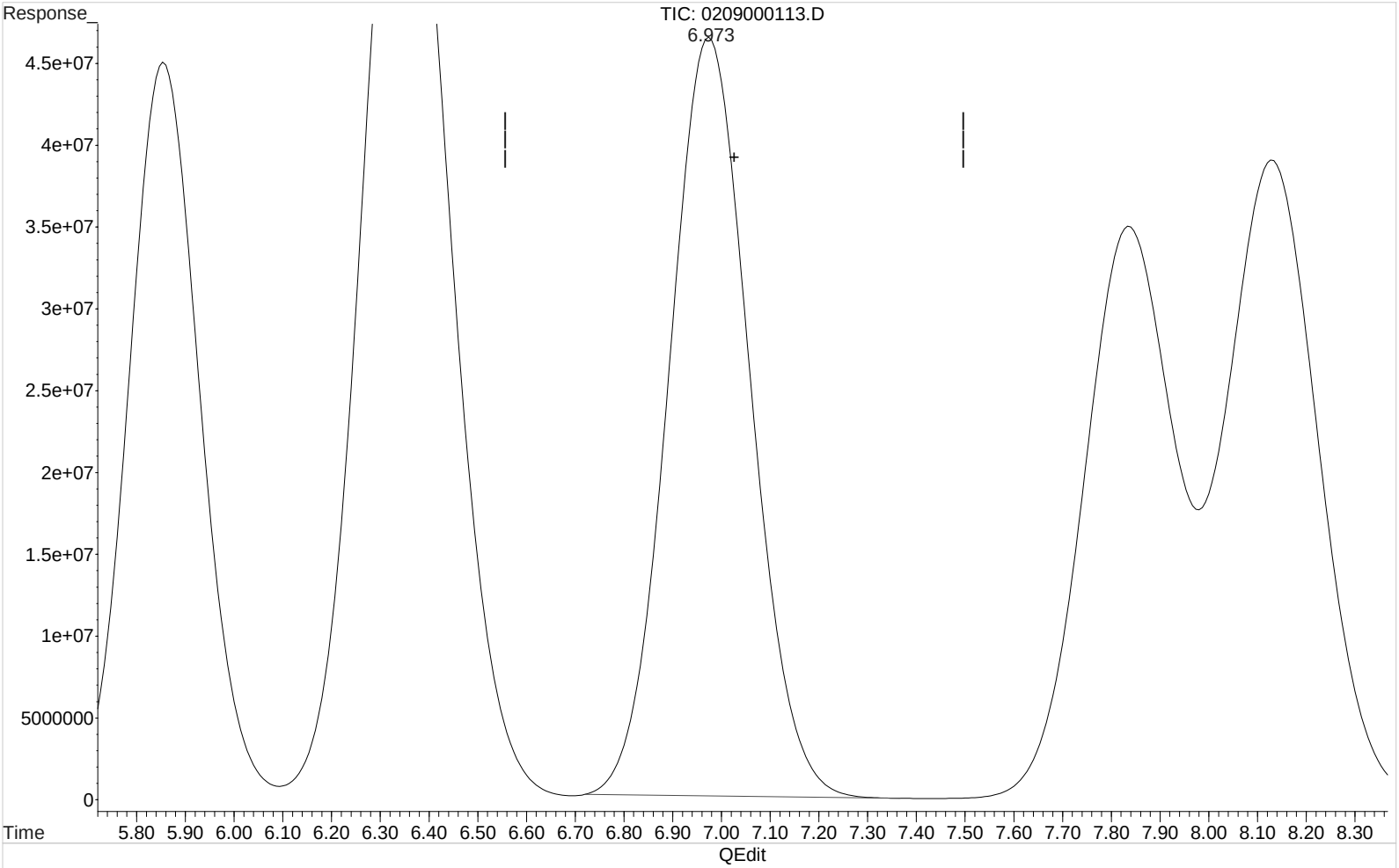
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(8) 3-NT (T)

6.973min 0.000 ug/L

response 539697946

Manual Integration:

Before

02/13/17

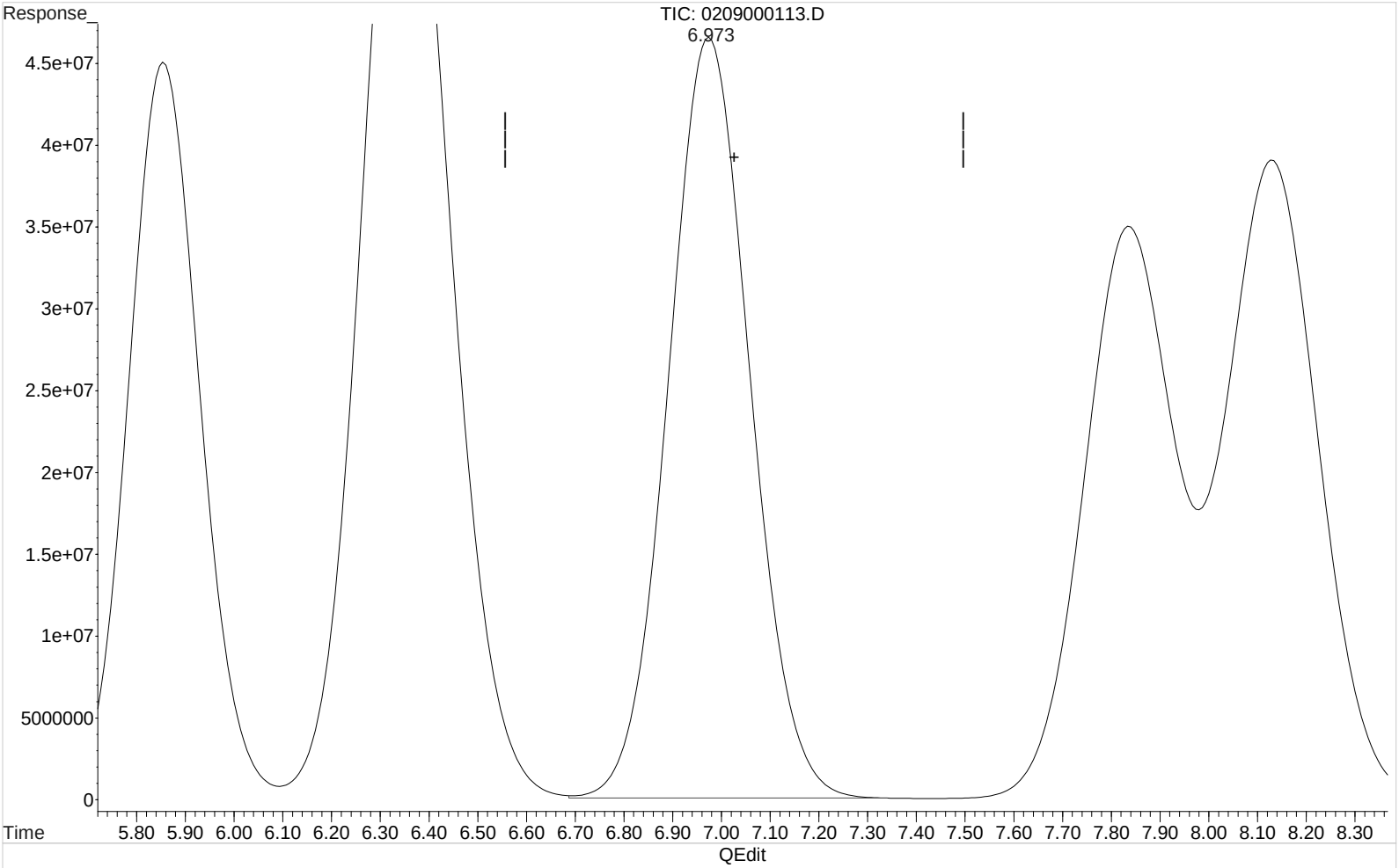
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(8) 3-NT (T)

6.973min 0.000 ug/L m

response 543775210

Manual Integration:

After

BLC

02/13/17

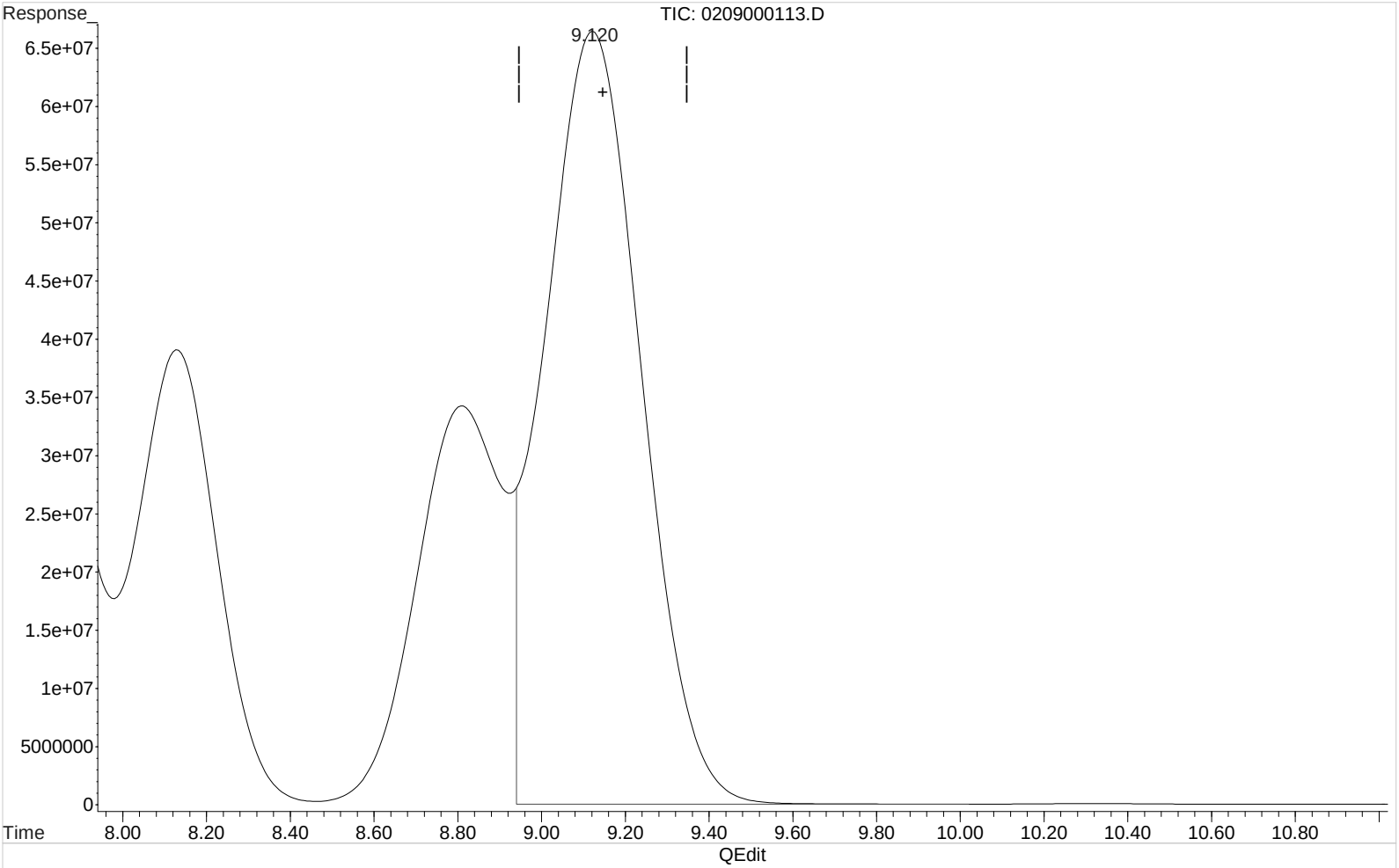
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(9) 1,3-DNB (T)

9.120min 0.000 ug/L

response 1060177232

Manual Integration:

Before

02/13/17

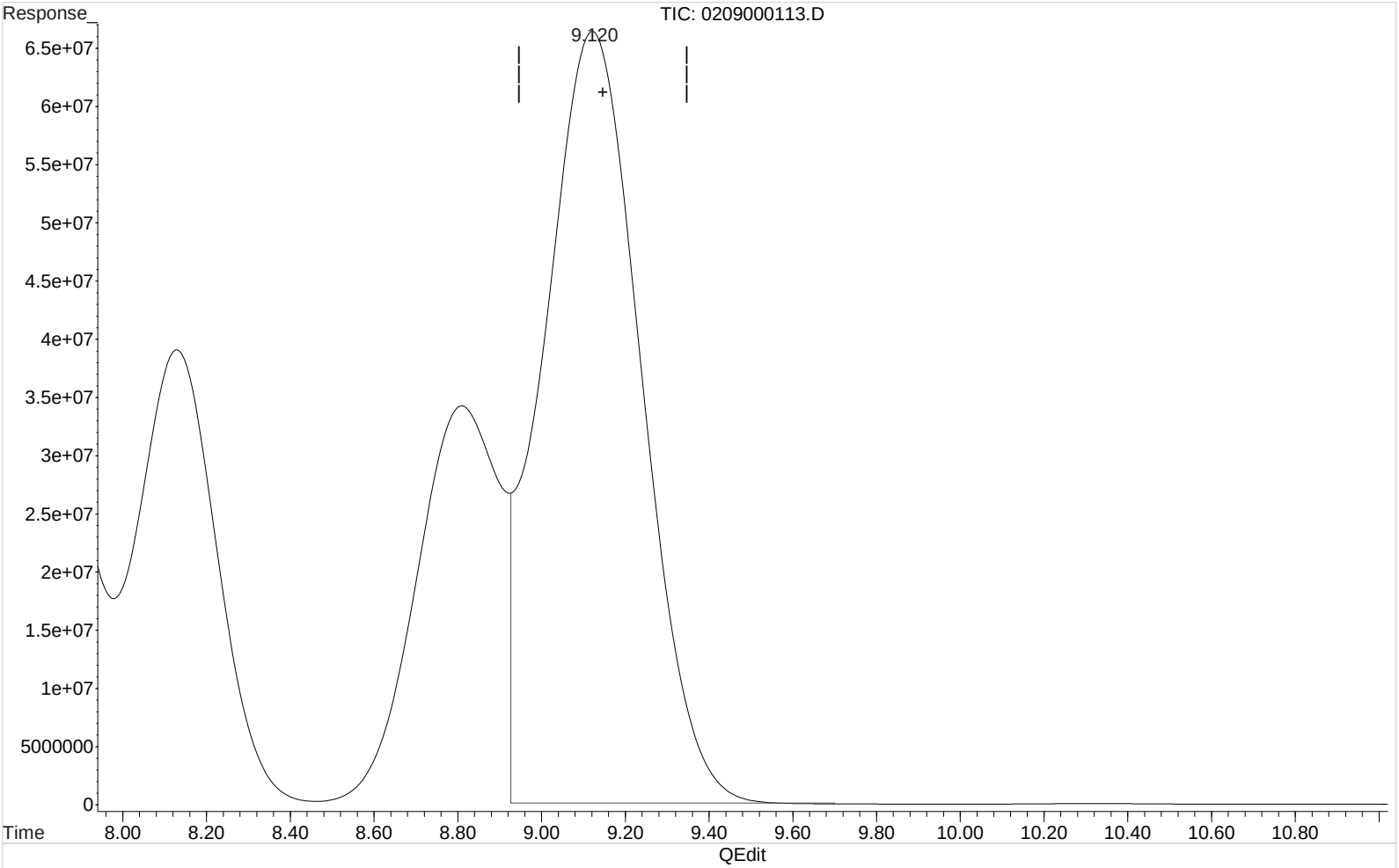
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000113.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 21:32:13 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 10:07:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 10:06:30 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(9) 1,3-DNB (T)

9.120min 0.000 ug/L m

response 1077373089

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

020917_Short_8330@254.M Mon Feb 13 10:11:10 2017 Page: 1

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000114.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:09:06 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:23:50 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
11) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
	Target Compounds					
1) T	HMX	0.000	0	N.D.	ug/L	
2) T	RDX	0.000	0	N.D.	ug/L	
3) T	Nitrobenzene	0.000	0	N.D.	ug/L	
4) T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L	
5) T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L	d
6) T	2-NT	0.000	0	N.D.	ug/L	d
7) T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L	d
8) T	3-NT	0.000	0	N.D.	ug/L	d
9) T	1,3-DNB	0.000	0	N.D.	ug/L	
10) T	4-NT	0.000	0	N.D.	ug/L	d
12) T	2,6-DNT	0.000	0	N.D.	ug/L	d
13) T	2,4-DNT	0.000	0	N.D.	ug/L	d
14) T	Tetryl	0.000	0	N.D.	ug/L	d
15) T	1,3,5-TNB	0.000	0	N.D.	ug/L	
16) T	2,4,6-TNT	0.000	0	N.D.	ug/L	

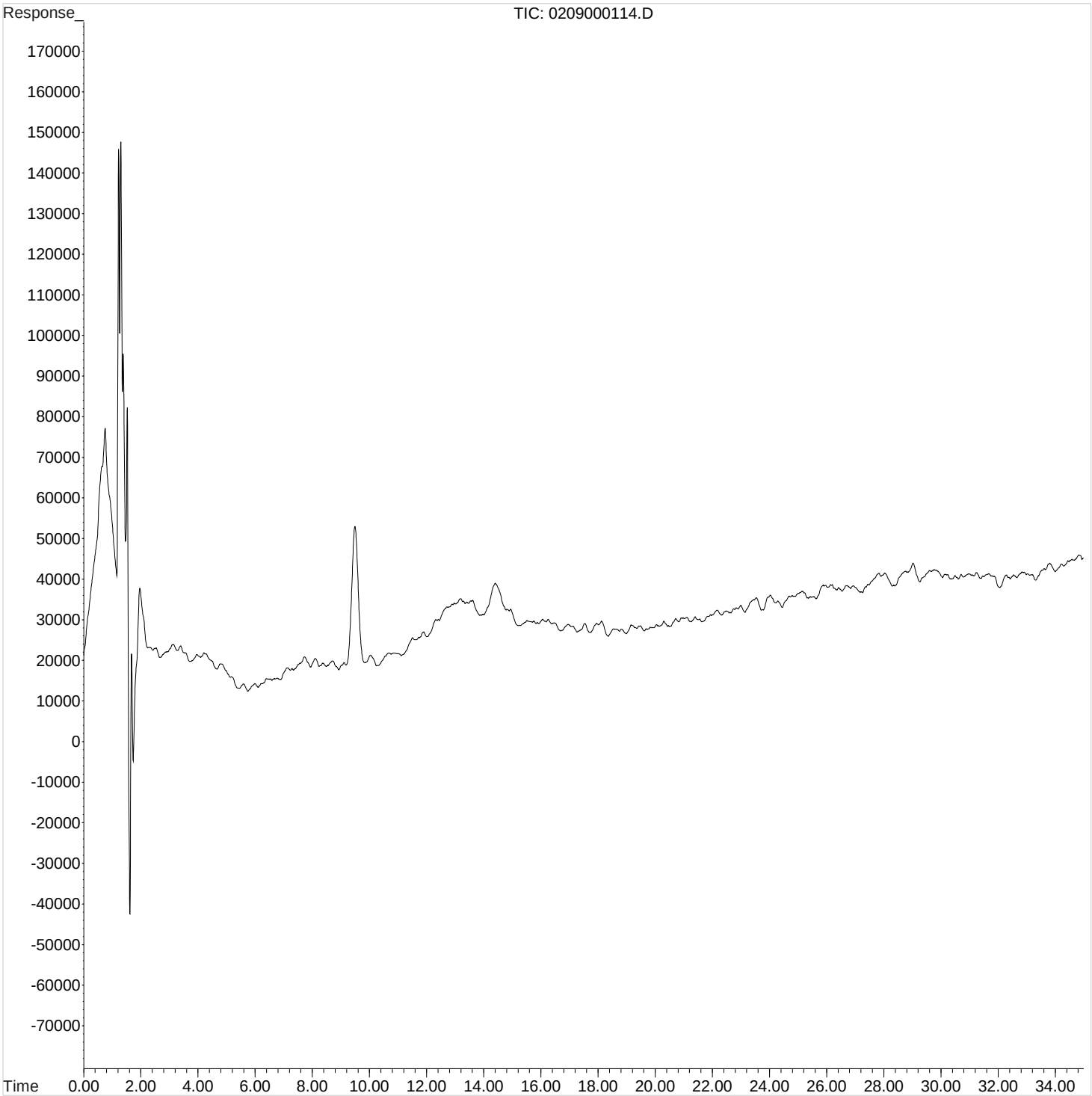
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000114.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:09:06 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:23:50 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:22:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds							
11)	S	1-Chloro-3-Nitrobenzene	8.127	24836791	943.788	ug/L	
Target Compounds							
1)	T	HMX	2.553	15189672	974.540	ug/L	
2)	T	RDX	2.800	16803386	903.368	ug/L	m
3)	T	Nitrobenzene	4.480	34528657	928.103	ug/L	m
4)	T	3,5-Dinitroaniline	5.240	43014873	925.365	ug/L	
5)	T	4-Amino-2,6-DNT	4.867	29345653	921.272	ug/L	
6)	T	2-NT	5.853	21859915	928.032	ug/L	m
7)	T	2-Amino-4,6-DNT	6.353	38582149	914.519	ug/L	m
8)	T	3-NT	6.973	25230895	902.935	ug/L	
9)	T	1,3-DNB	9.120	51447002	919.544	ug/L	m
10)	T	4-NT	7.833	21970507	942.506	ug/L	
12)	T	2,6-DNT	8.800	24072617	983.755	ug/L	
13)	T	2,4-DNT	14.787	47663620	906.089	ug/L	
14)	T	Tetryl	12.960	26728022	910.339	ug/L	
15)	T	1,3,5-TNB	19.780	38519494	914.207	ug/L	
16)	T	2,4,6-TNT	20.760	35648669	918.724	ug/L	

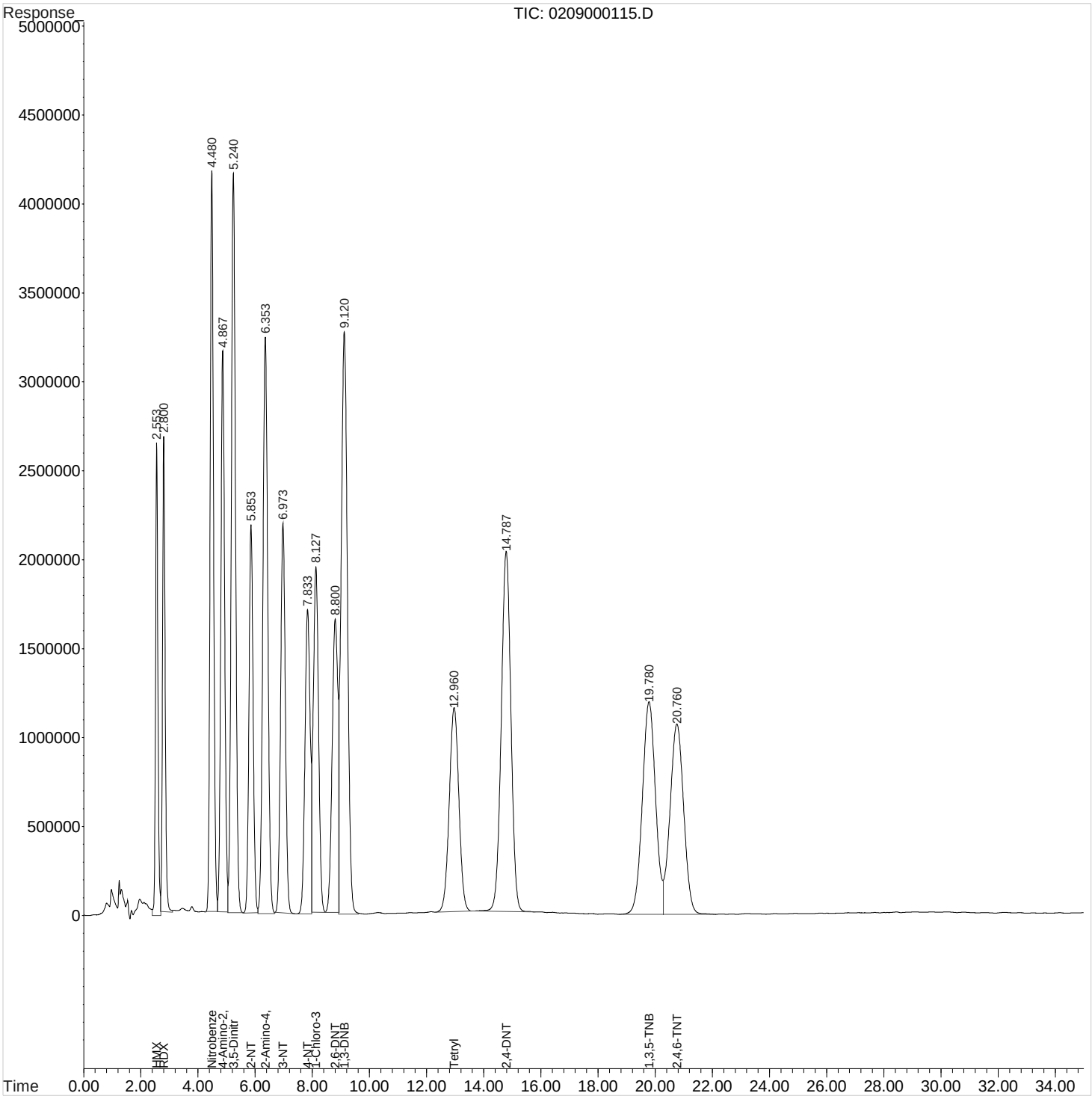
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:22:51 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm

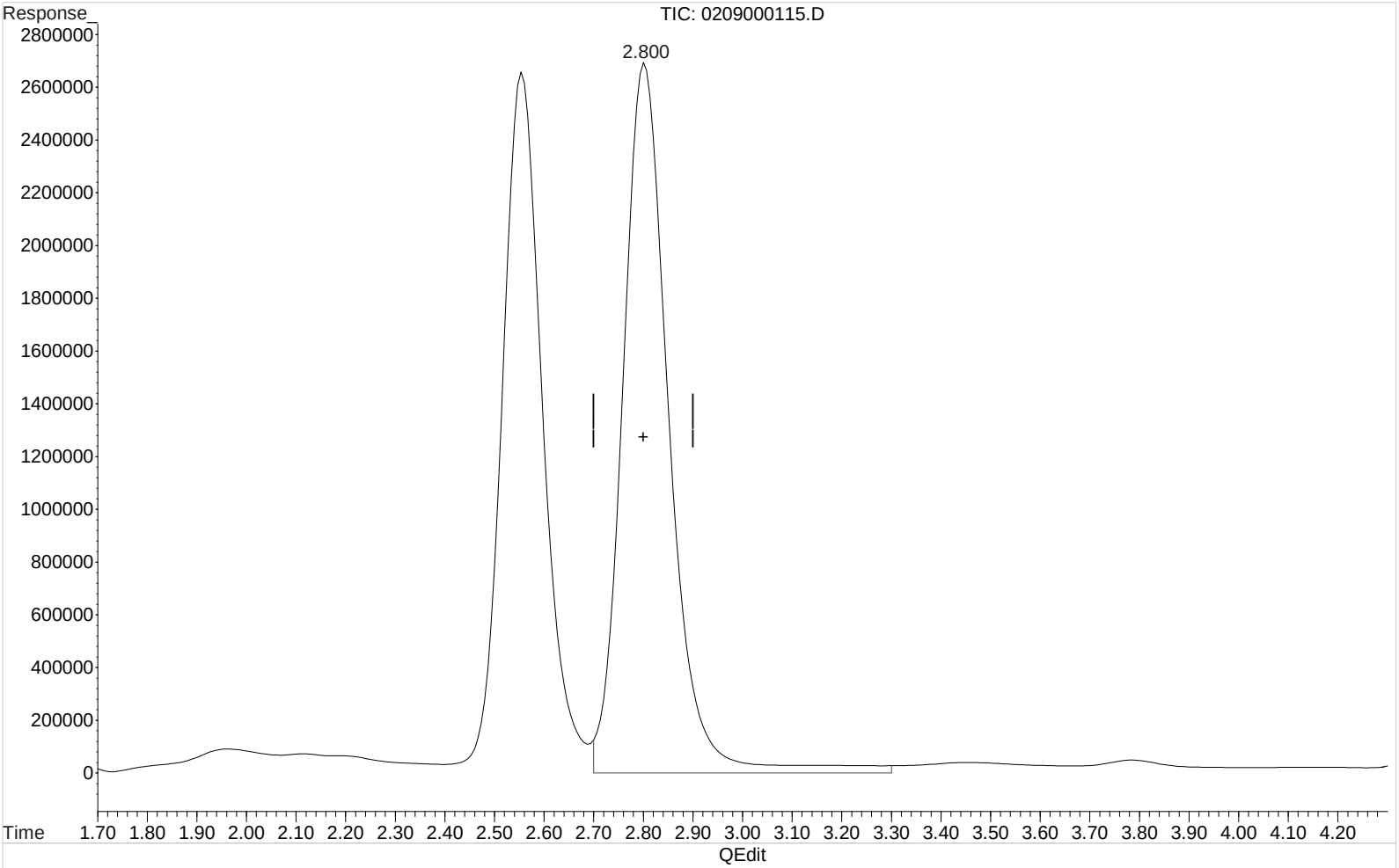


Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(2) RDX (T)

2.800min 943.070 ug/L

response 17541874

Manual Integration:

Before

02/13/17

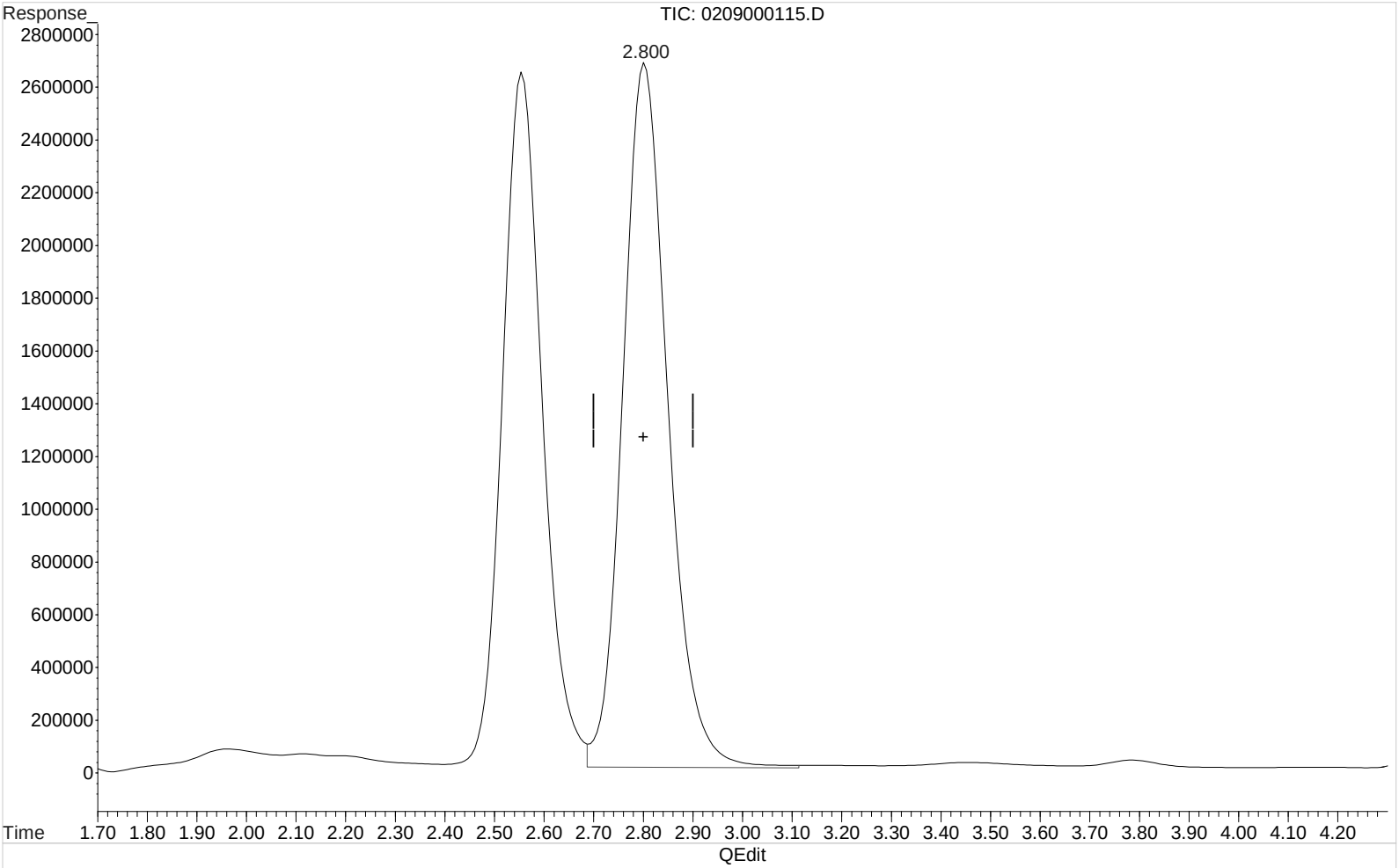
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(2) RDX (T)

2.800min 903.368 ug/L m

response 16803386

Manual Integration:

After

BLC

02/13/17

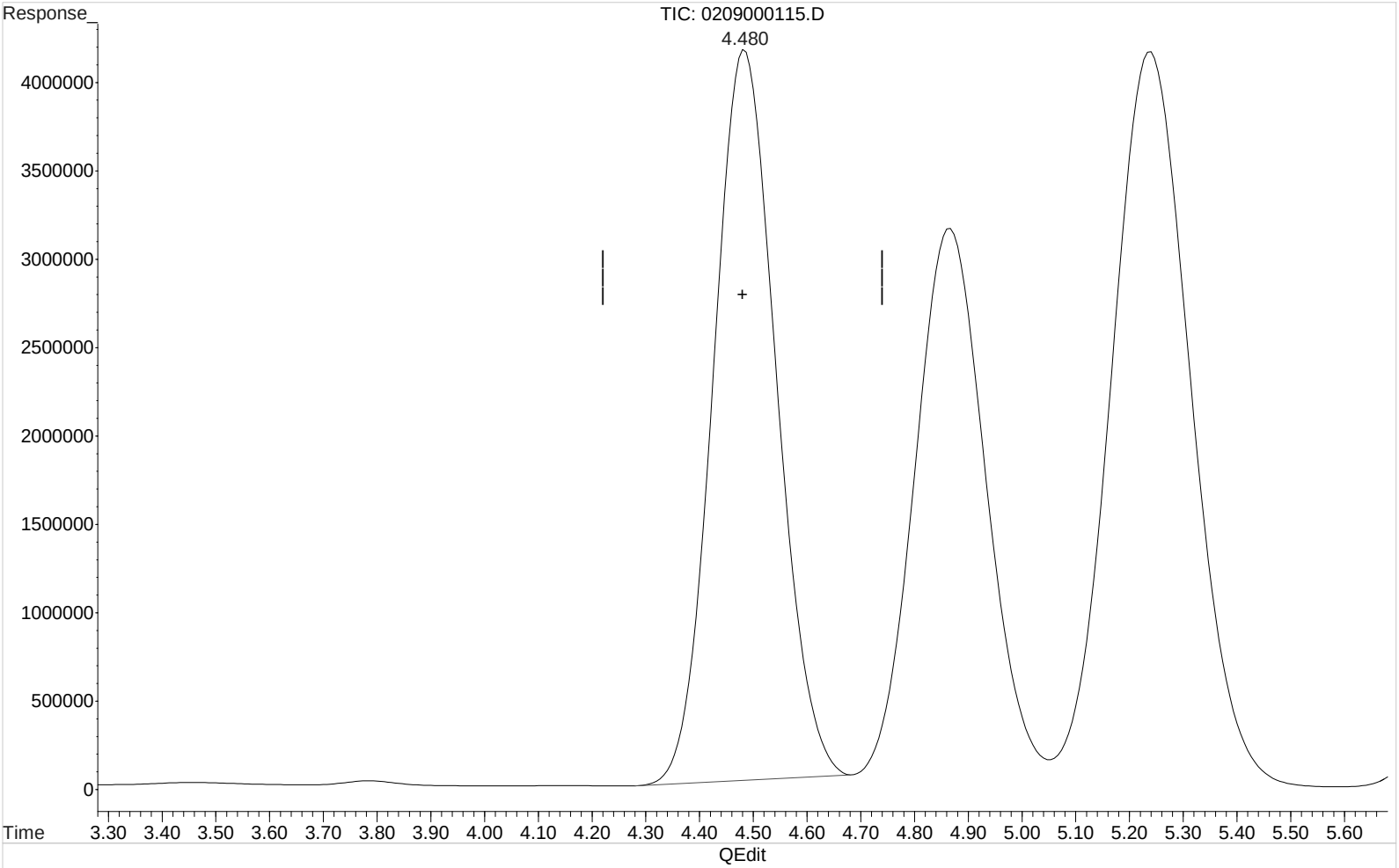
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.480min 908.645 ug/L

response 33804752

Manual Integration:

Before

02/13/17

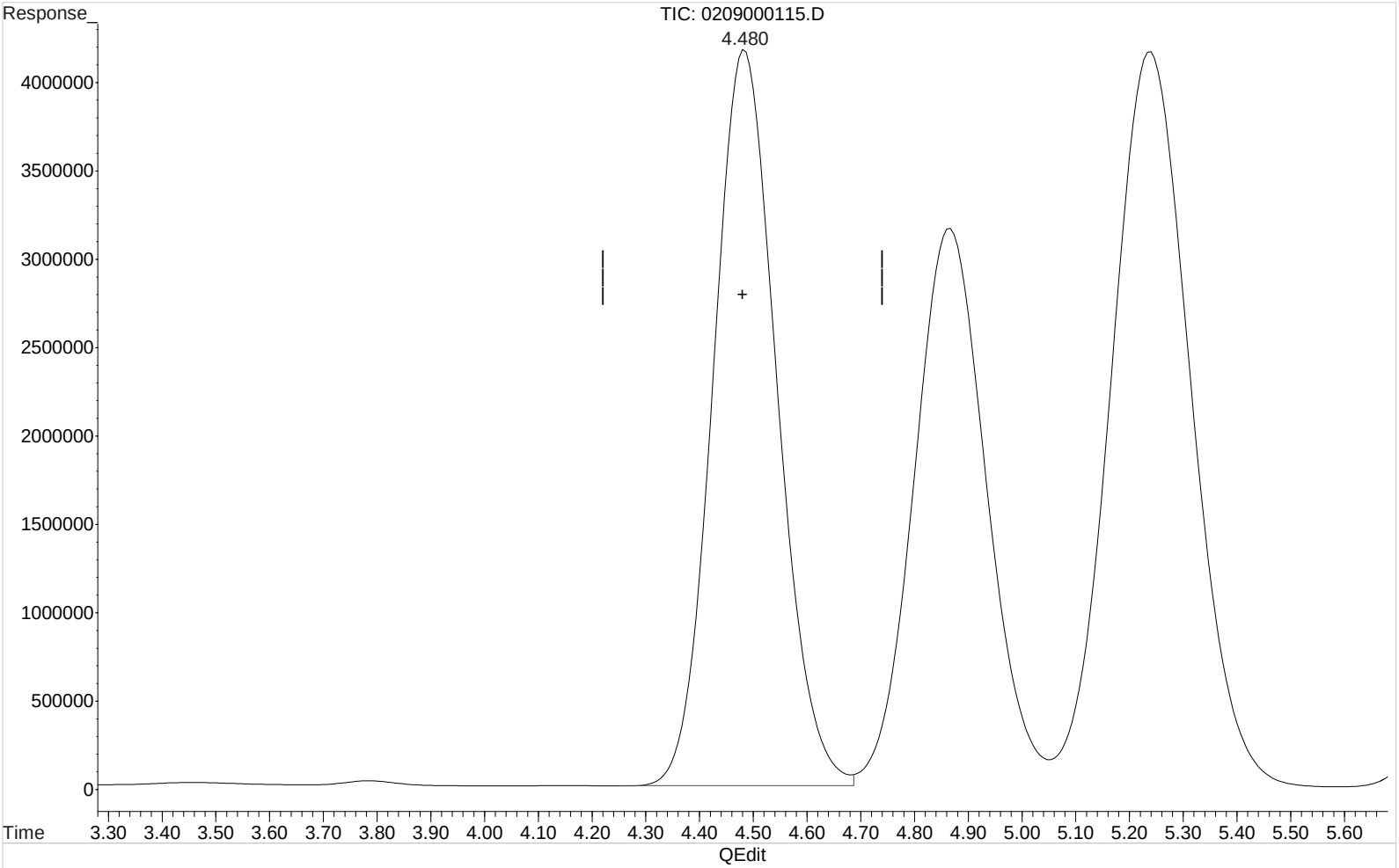
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



(3) Nitrobenzene (T)

4.480min 928.103 ug/L m

response 34528657

Manual Integration:

After

BLC

02/13/17

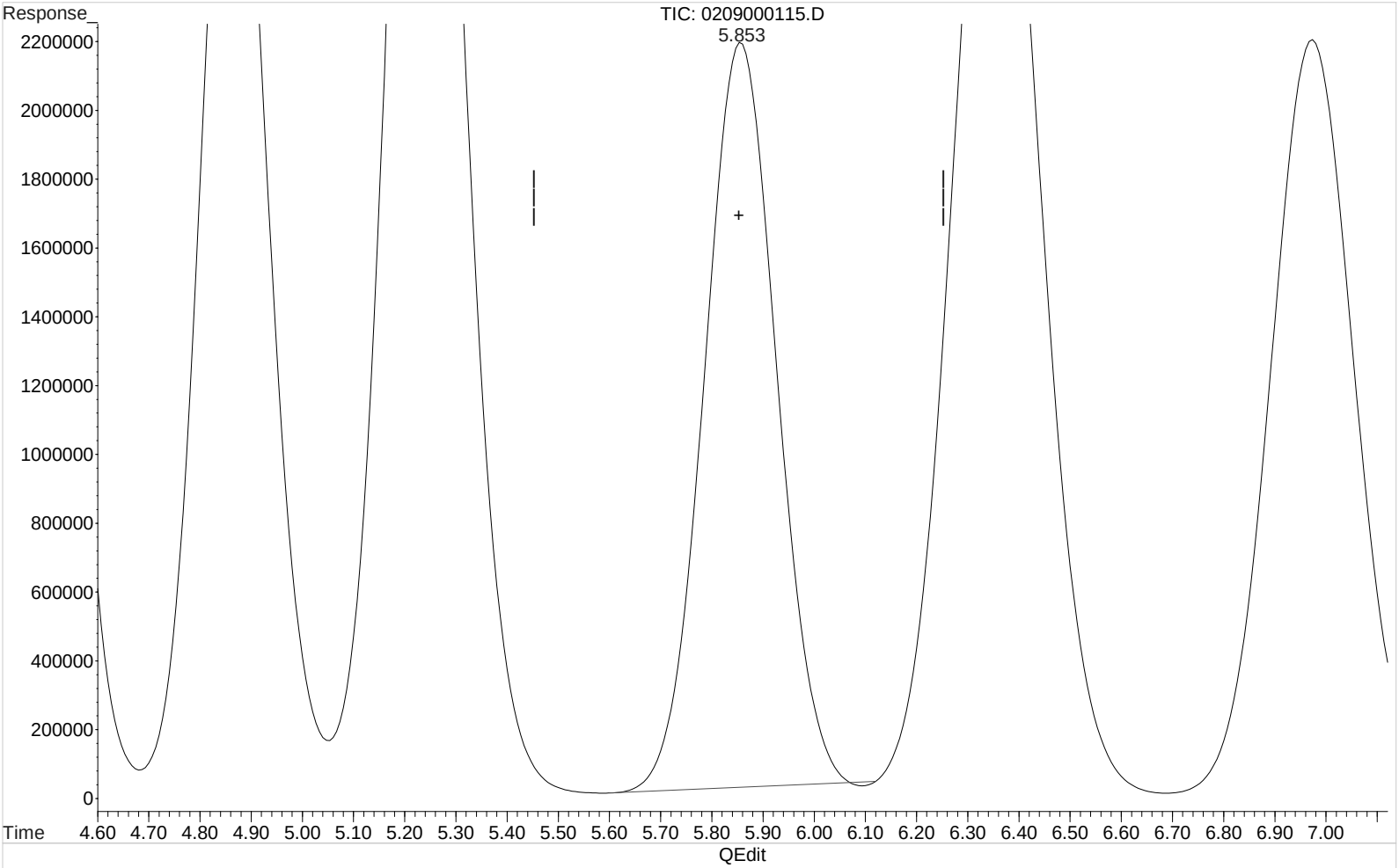
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.853min 906.205 ug/L

response 21345796

Manual Integration:

Before

02/13/17

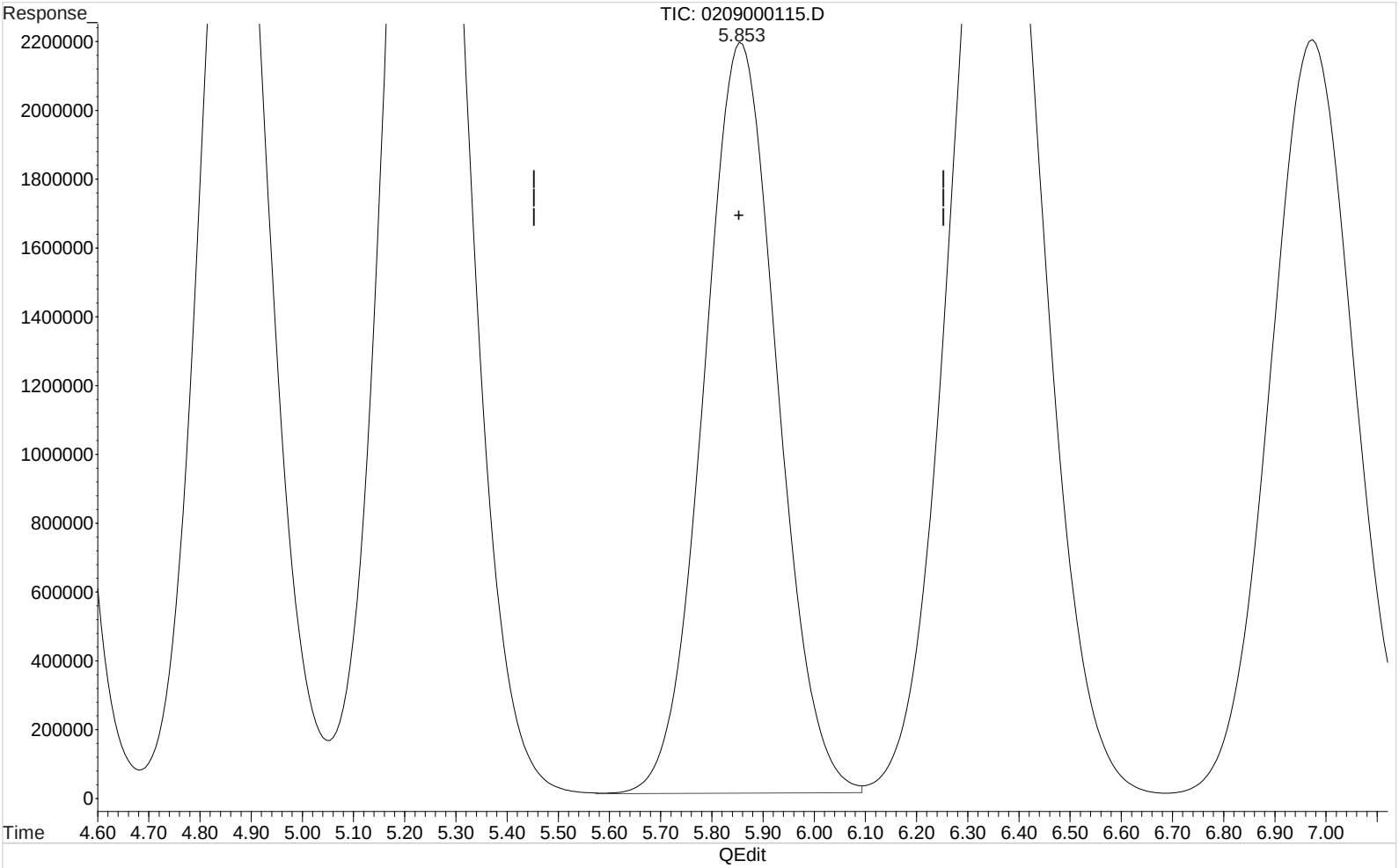
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(6) 2-NT (T)

5.853min 928.032 ug/L m

response 21859915

Manual Integration:

After

BLC

02/13/17

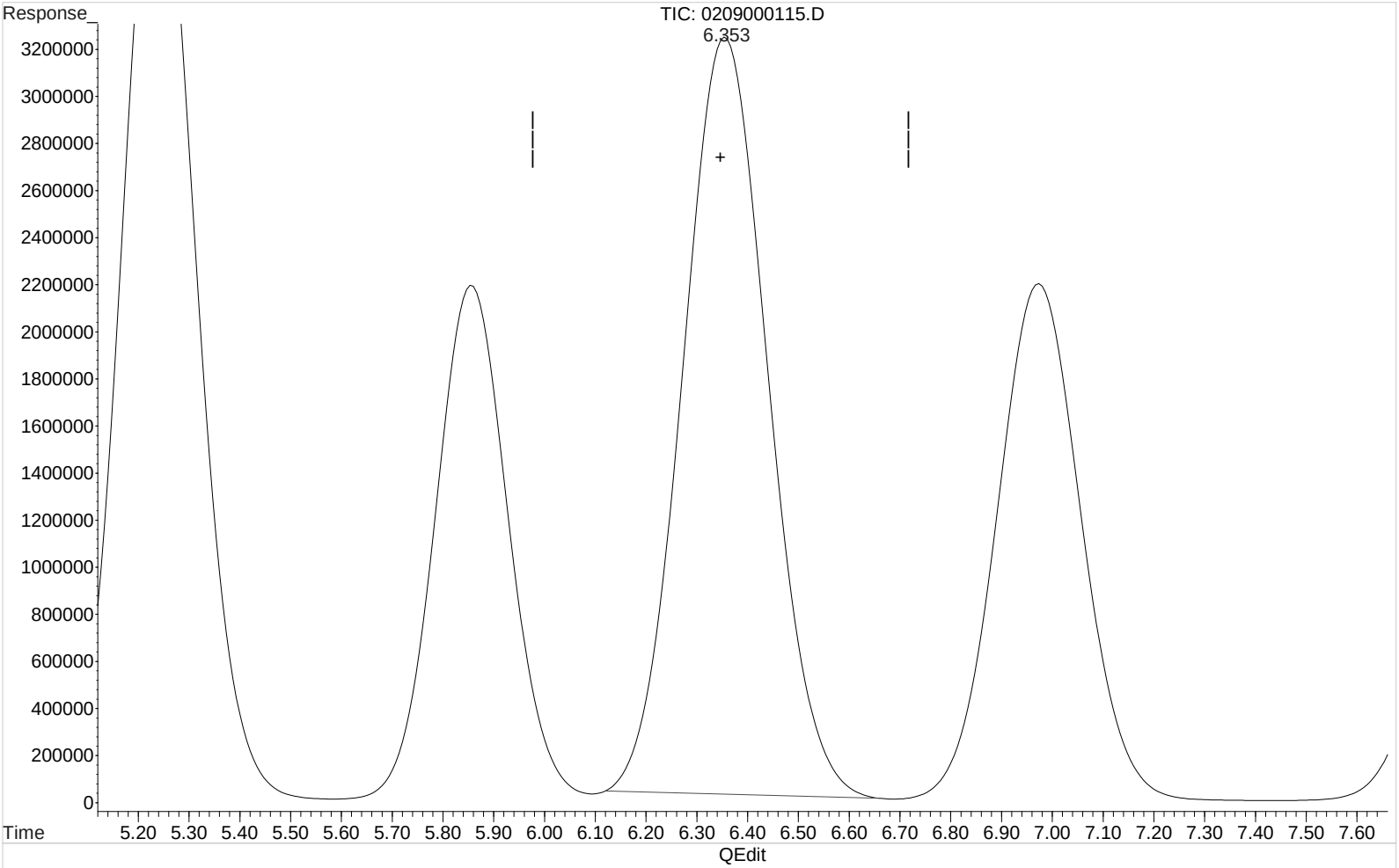
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.353min 895.482 ug/L

response 37779010

Manual Integration:

Before

02/13/17

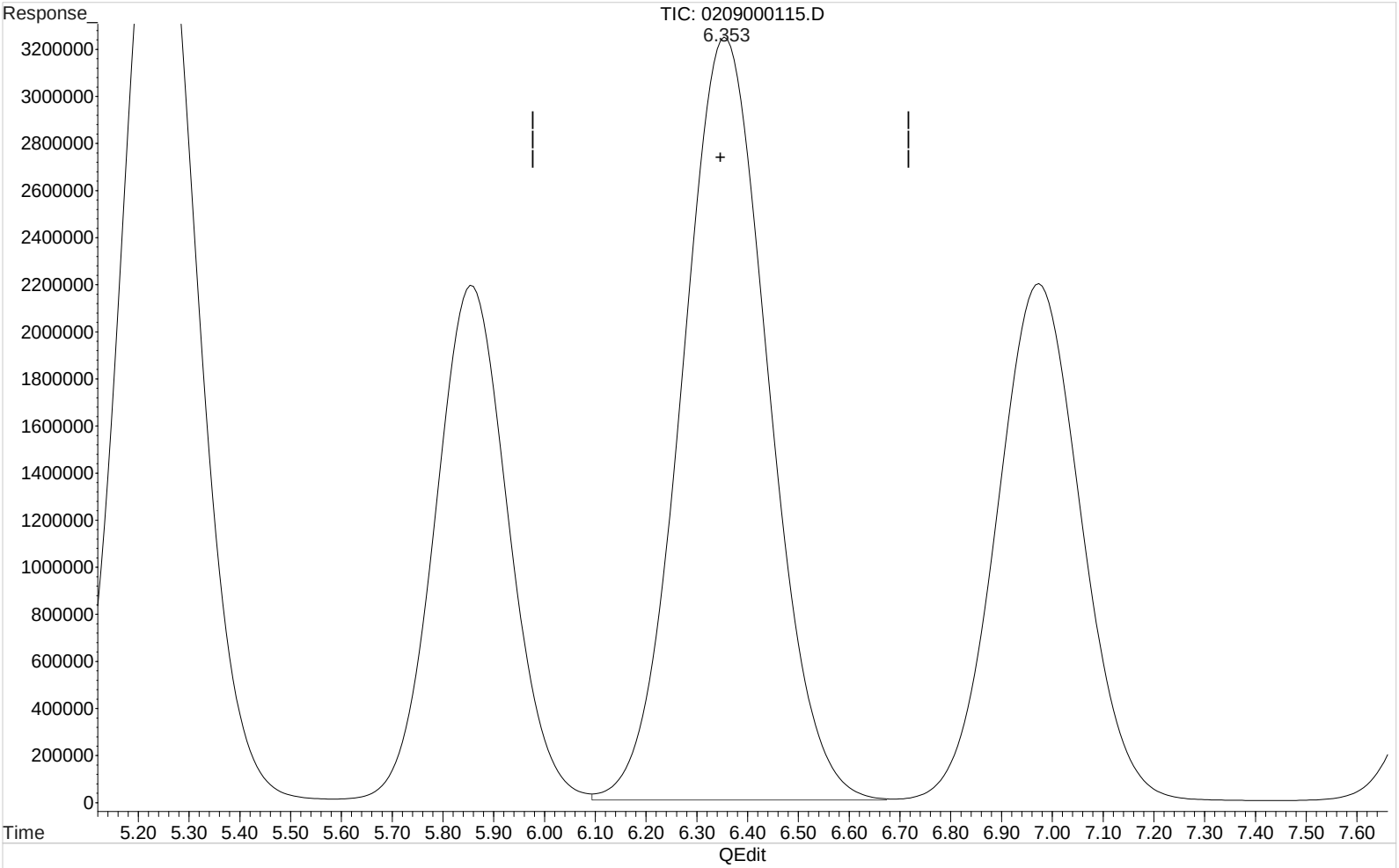
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(7) 2-Amino-4,6-DNT (T)

6.353min 914.519 ug/L m

response 38582149

Manual Integration:

After

BLC

02/13/17

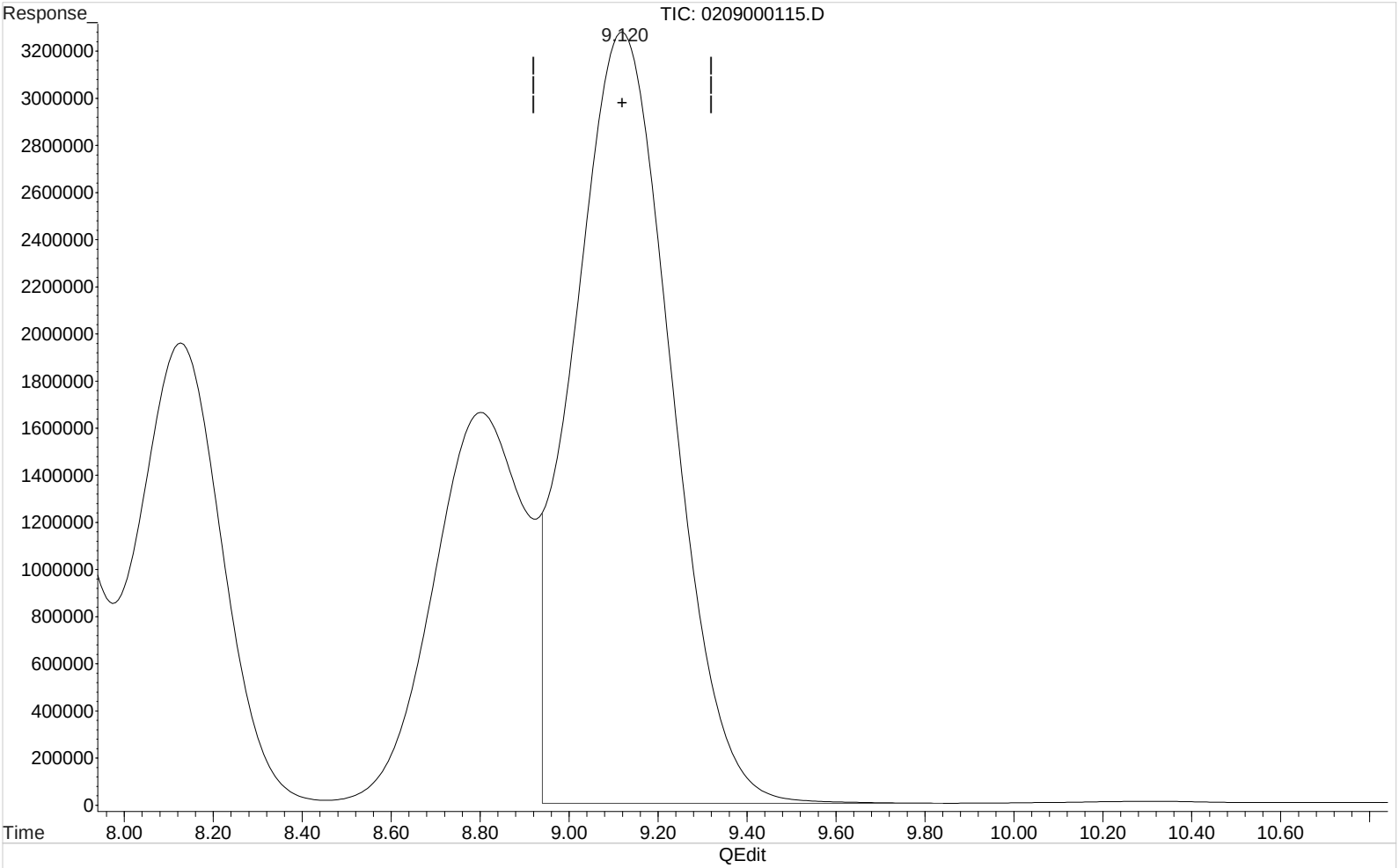
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(9) 1,3-DNB (T)

9.120min 894.233 ug/L

response 50030932

Manual Integration:

Before

02/13/17

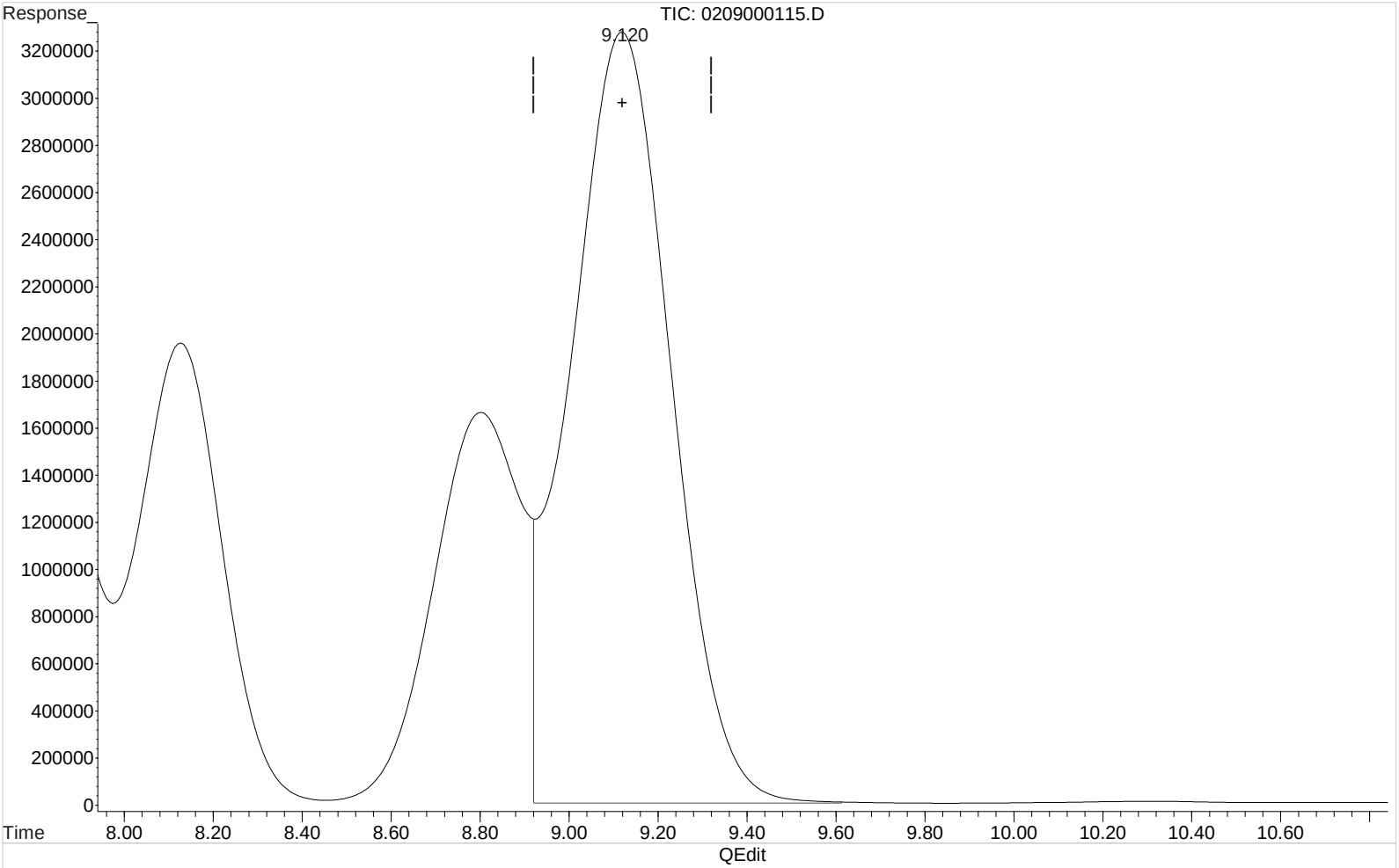
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC08\Data\020917XC-254\0209000115.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 09-Feb-2017, 22:45:55 Operator: AE
Sample : 1000 PPB ICV Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Feb 13 11:21:20 2017
Quant Results File: 020917_Short_8330@254.RES

Quant Method : J:\LC08\Method\020917_Short_8330@254.M
Quant Title : CAL15047
QLast Update : Mon Feb 13 11:17:20 2017
Response via : Initial Calibration
DataAcq Meth:8330BXC.M

Volume Inj. : 100 uL
Signal Phase : Ultra Aromax 5um 150x4.6mm
Signal Info : Ultra Aromax | DAD @ 254nm



QEdit

(9) 1,3-DNB (T)

9.120min 919.544 ug/L m

response 51447002

Manual Integration:

After

BLC

02/13/17

(+) = Expected Retention Time

Date: 12/7/2016 **ALS Kelso, WA** **ICAL Date:** 12/7/2016

By: AE **Injection Log** **ICAL ID:** (254)-15062 (210)-15063

Stealth ID: n/a **LC10 - Agilent 1260** **LIMS ID:** n/a

2nd Review: (b) (6)

Column: Phen. Synergi Hydro-RP 80A 250x4.6 mm SN 759076-19

Mobile Phases A: MeOH Lot#: 56175 **B:** ACN Lot#: 56165 **C:** H_2O Lot#: 56006 **D:**

	Sample Name	File Name	Method	Dilution	R	Comments
1		12070000101	8330BX+DIAMINOS.M	NA		
2		12070000102	8330BX+DIAMINOS.M	NA		
3		1207000202	8330BX+DIAMINOS.M	NA		
4		1207000203	8330BX+DIAMINOS.M	NA		
5		1207000204	8330BX+DIAMINOS.M	NA		
6		1207000205	8330BX+DIAMINOS.M	NA		
7		1207000206	8330BX+DIAMINOS.M	NA		
8		1207000207	8330BX+DIAMINOS.M	NA		
9		1207000303	8330BX+DIAMINOS.M	NA		
10		1207000404	8330BX+DIAMINOS.M	NA		
11		1207000405	8330BX+DIAMINOS.M	NA		
12		1207000505	8330BX+DIAMINOS.M	NA		
13		1207000601	8330BX+DIAMINOS.M	NA		
14		1207000602	8330BX+DIAMINOS.M	NA		
15		1207000603	8330BX+DIAMINOS.M	NA		
16		1207000701	8330BX+DIAMINOS.M	NA		
17		1207000702	8330BX+DIAMINOS.M	NA		
18	IB	1207000703	8330BX+DIAMINOS.M	NA	X	
19	16-OLC-01-89J 20 PPB	1207000704	8330BX+DIAMINOS.M	NA	X	
20	16-OLC-01-89I 50 PPB	1207000705	8330BX+DIAMINOS.M	NA	X	
21	16-OLC-01-89H 100 PPB	1207000706	8330BX+DIAMINOS.M	NA	X	
22	16-OLC-01-89G 200 PPB	1207000707	8330BX+DIAMINOS.M	NA	X	
23	16-OLC-01-89F 500 PPB	1207000708	8330BX+DIAMINOS.M	NA	X	
24	16-OLC-01-89E 1000 PPB	1207000709	8330BX+DIAMINOS.M	NA	X	
25	16-OLC-01-89D 2000 PPB	1207000710	8330BX+DIAMINOS.M	NA	X	
26	16-OLC-01-89C 5000 PPB	1207000711	8330BX+DIAMINOS.M	NA	X	
27	16-OLC-01-89B 10000 PPB	1207000712	8330BX+DIAMINOS.M	NA	X	
28	16-OLC-01-89A 20000 PPB	1207000713	8330BX+DIAMINOS.M	NA	X	
29	IB	1207000714	8330BX+DIAMINOS.M	NA	X	
30	16-OLC-01-89K 10000 PPB ICV	1207000715	8330BX+DIAMINOS.M	NA	X	

(Cal not valid for Diaminos)

R:\OLC\Injection Logs\LC10 2016\INJLOG_LC10_xl_120716_ICAL

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000703.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 19:36:44 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:14:56 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:09:42 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L	d
Target Compounds						
1) T	Nitroglycerin	0.000	0	N.D.	ug/L	d
2) T	PETN	27.763	156171	8.404	ug/L	

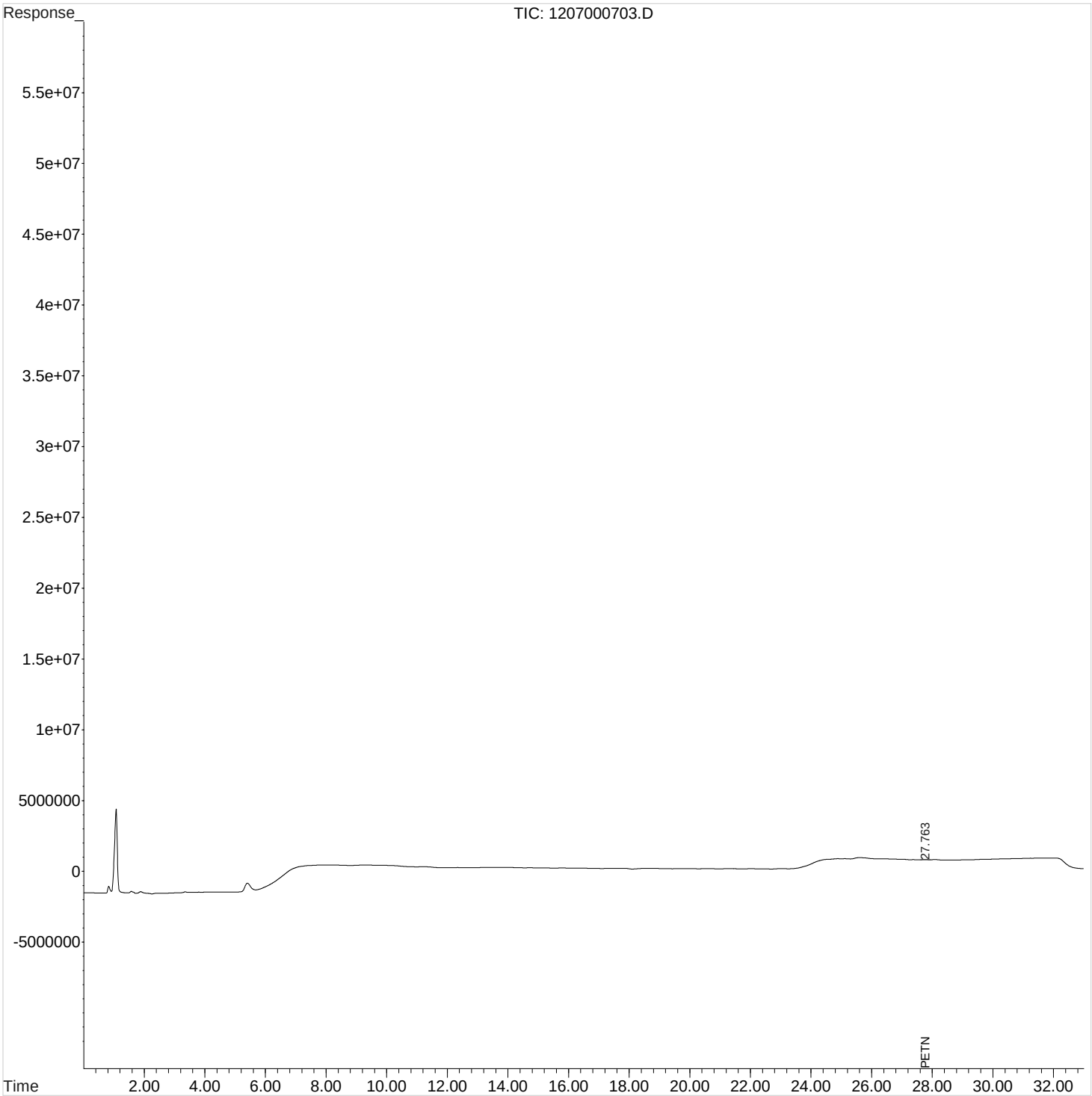
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000703.D Vial: 1
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 19:36:44 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:14:56 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:09:42 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:04 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.707	3217434	NoCal	ug/L	m
Target Compounds						
1) T	Nitroglycerin	16.654	1445069	NoCal	ug/L	m
2) T	PETN	27.787	1323782	NoCal	ug/L	m

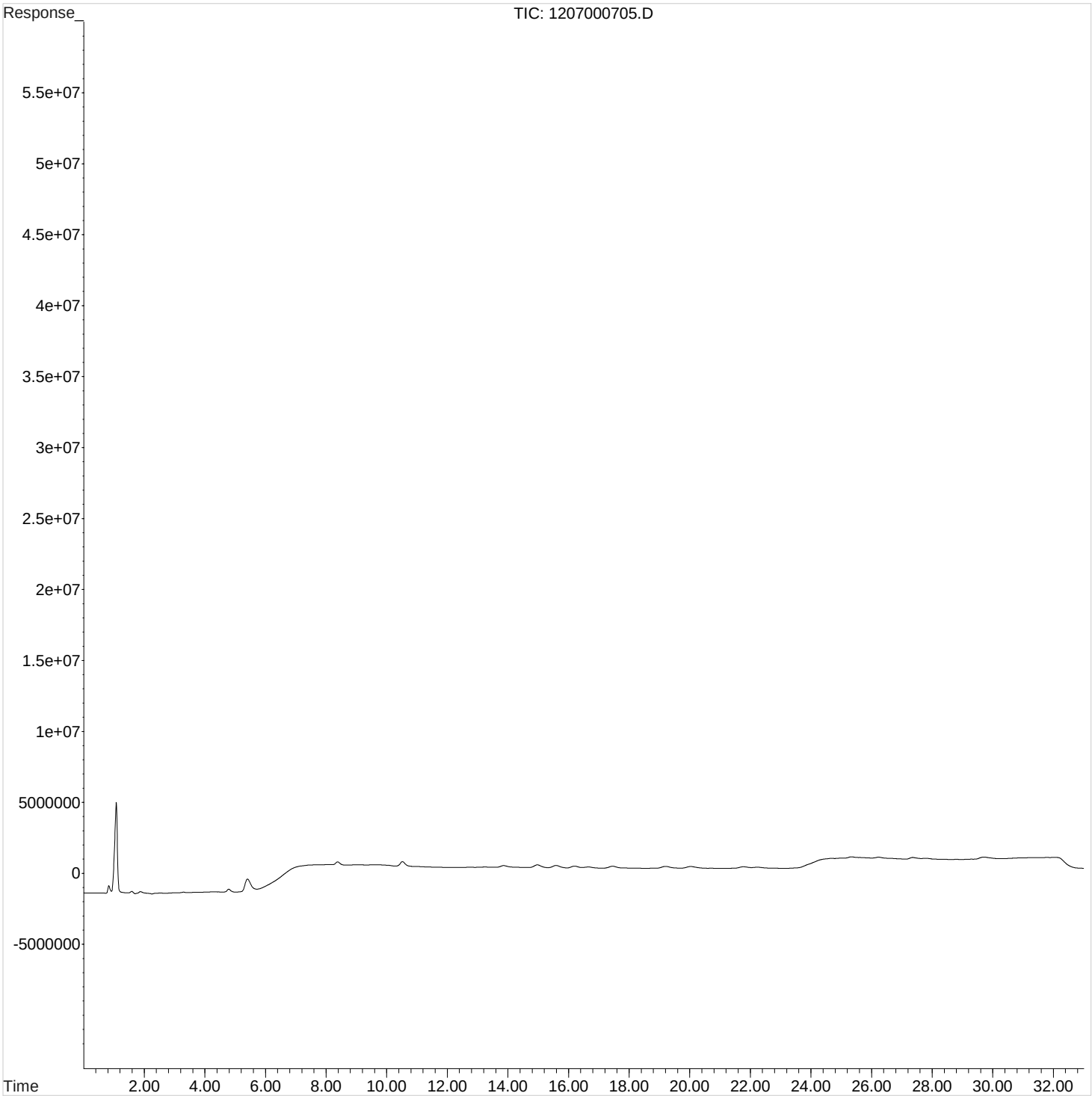
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:04 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

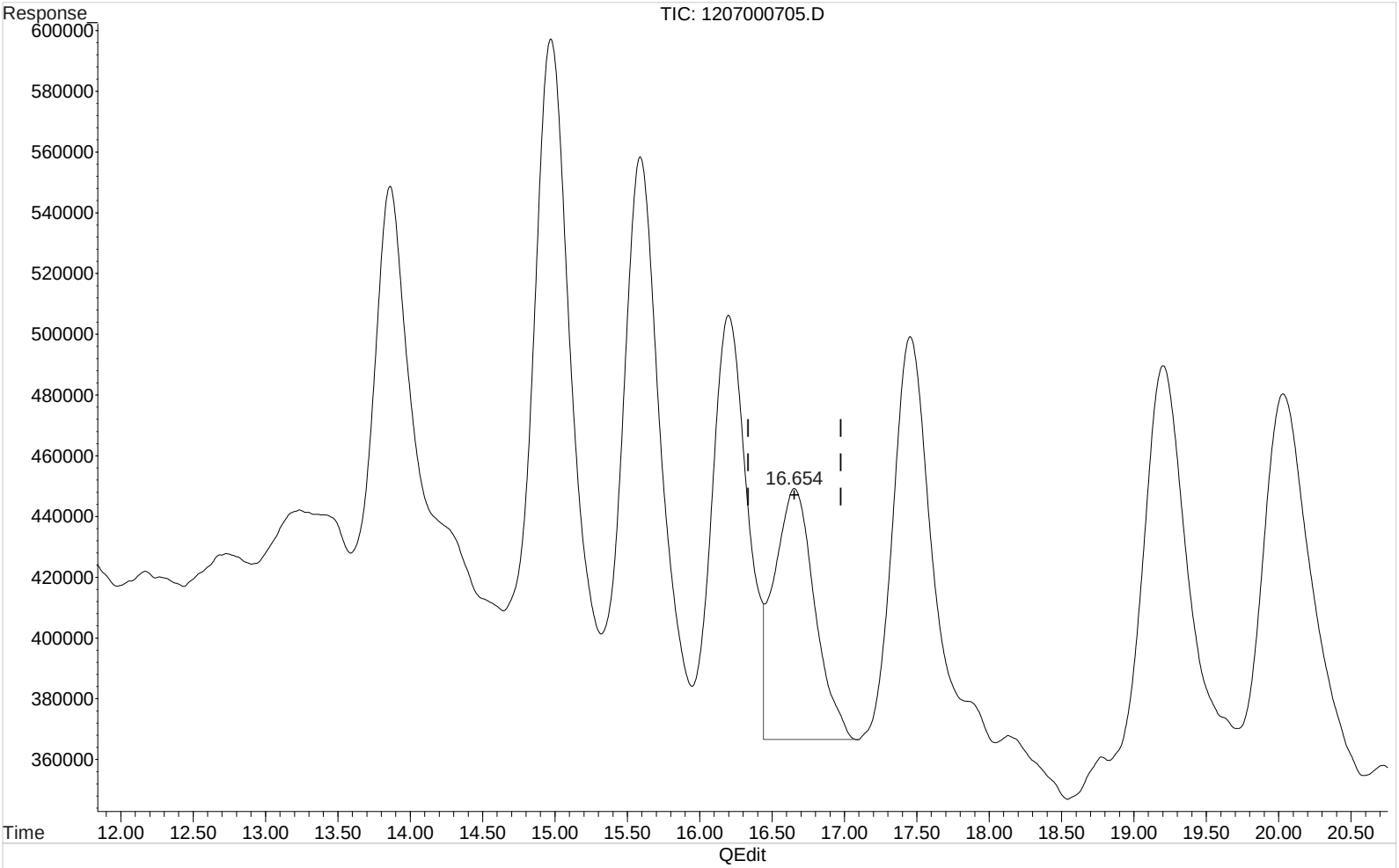


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:26:17 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.654min 0.000 ug/L

response 1614875

Manual Integration:

Before

12/08/16

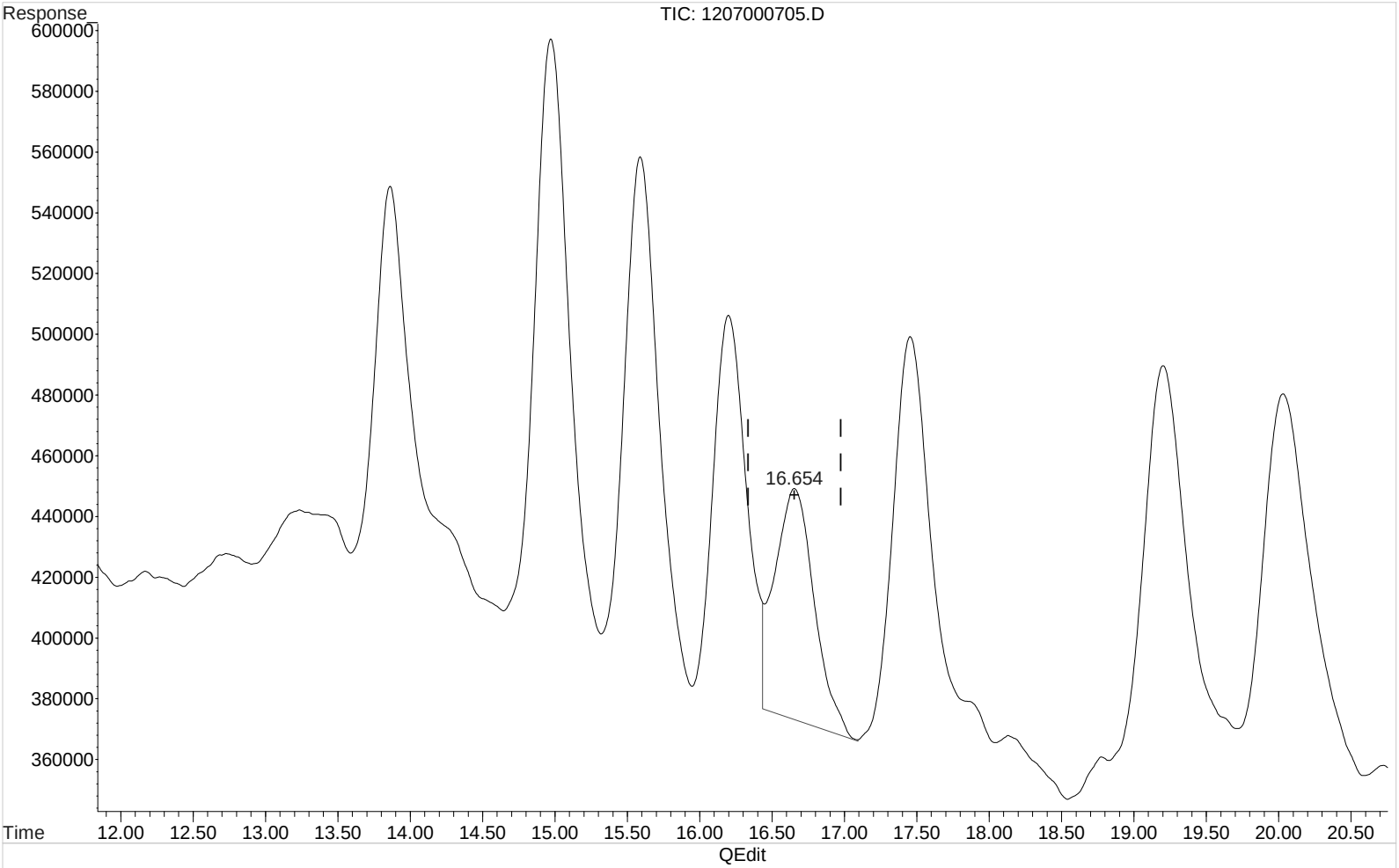
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:26:17 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.654min 0.000 ug/L m

response 1445069

Manual Integration:

After

BLC

12/08/16

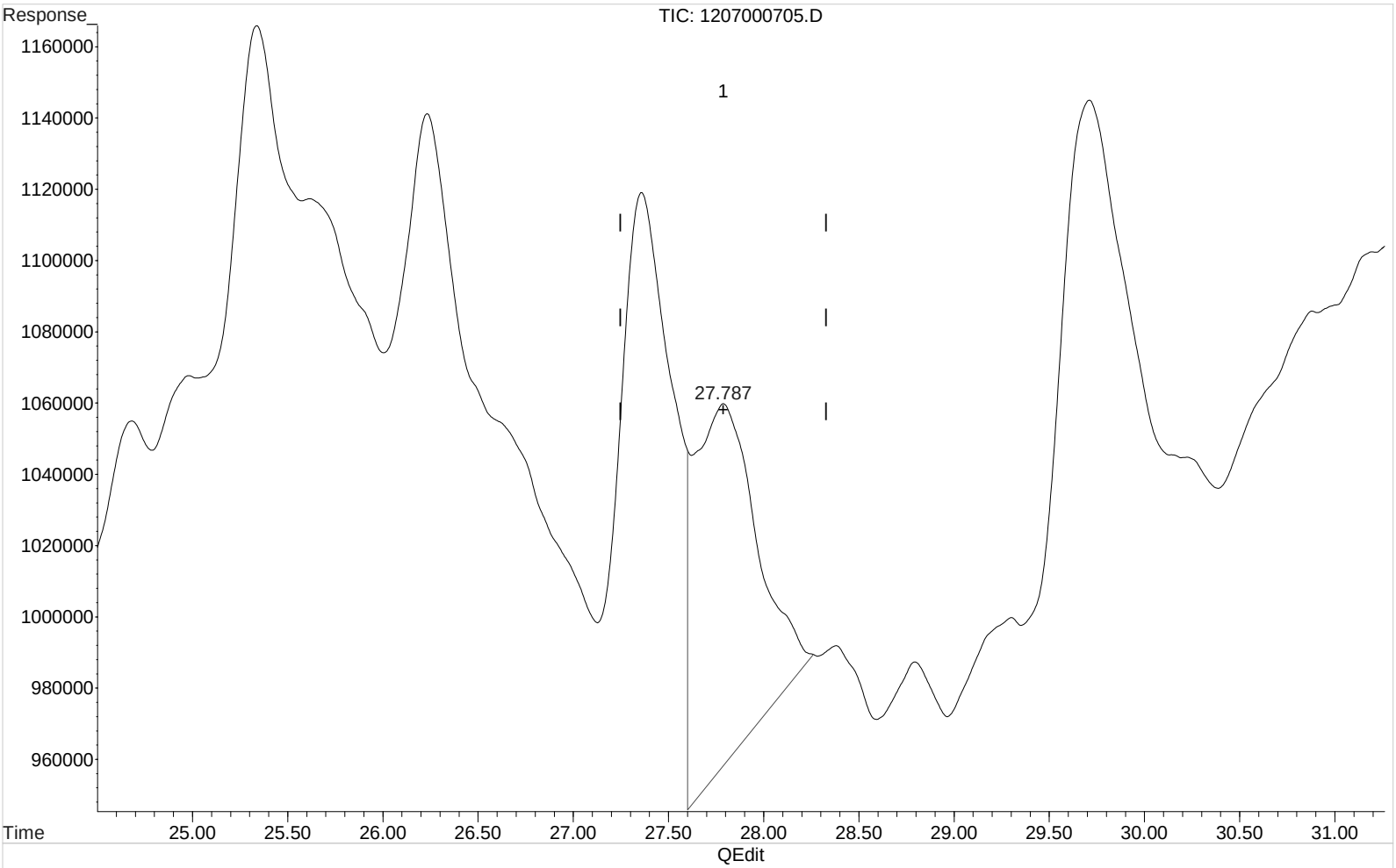
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:26:17 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.787min 0.000 ug/L

response 2332366

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

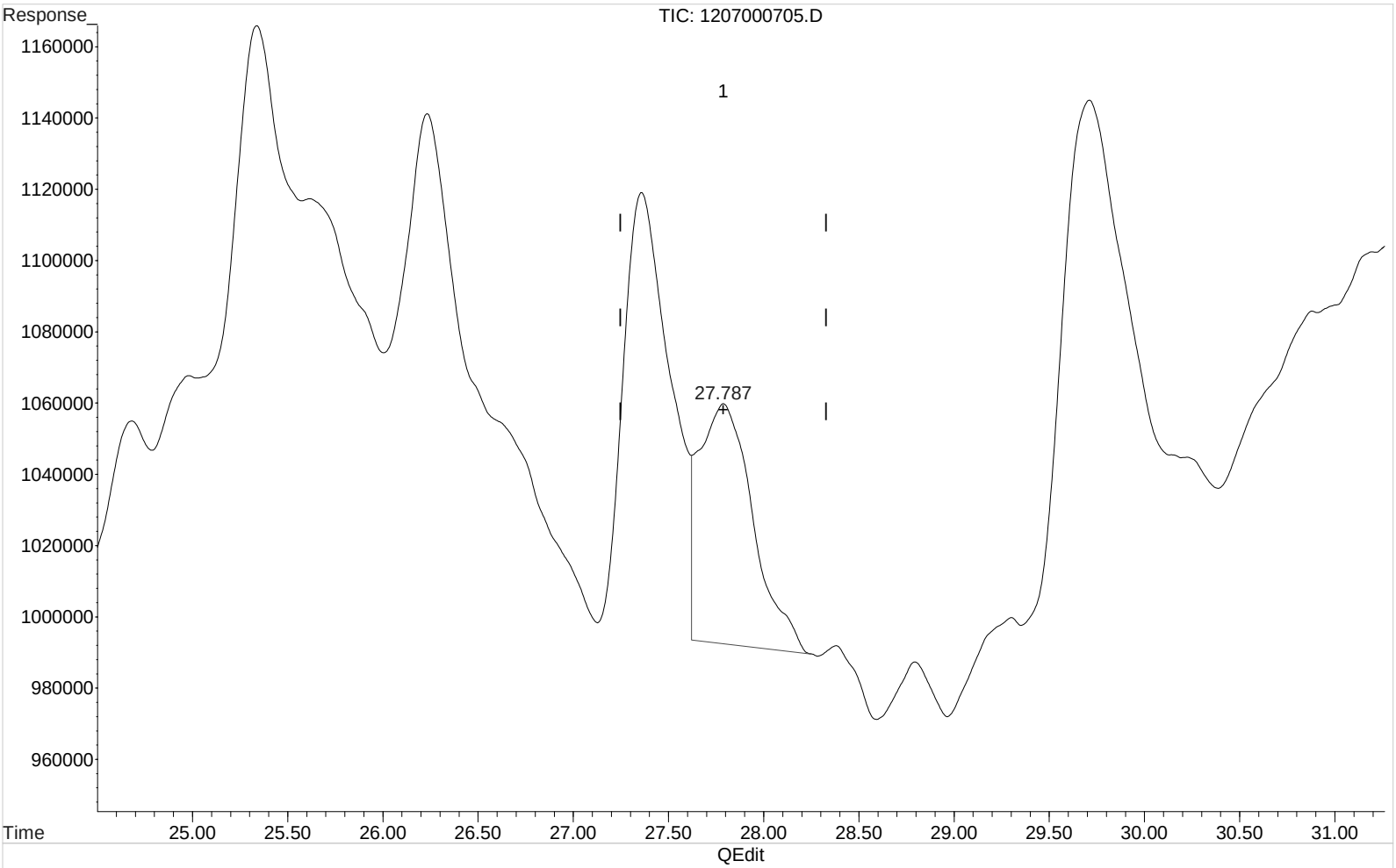
/08/16

/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:26:17 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.787min 0.000 ug/L m

response 1323782

Manual Integration:

After

BLC

12/08/16

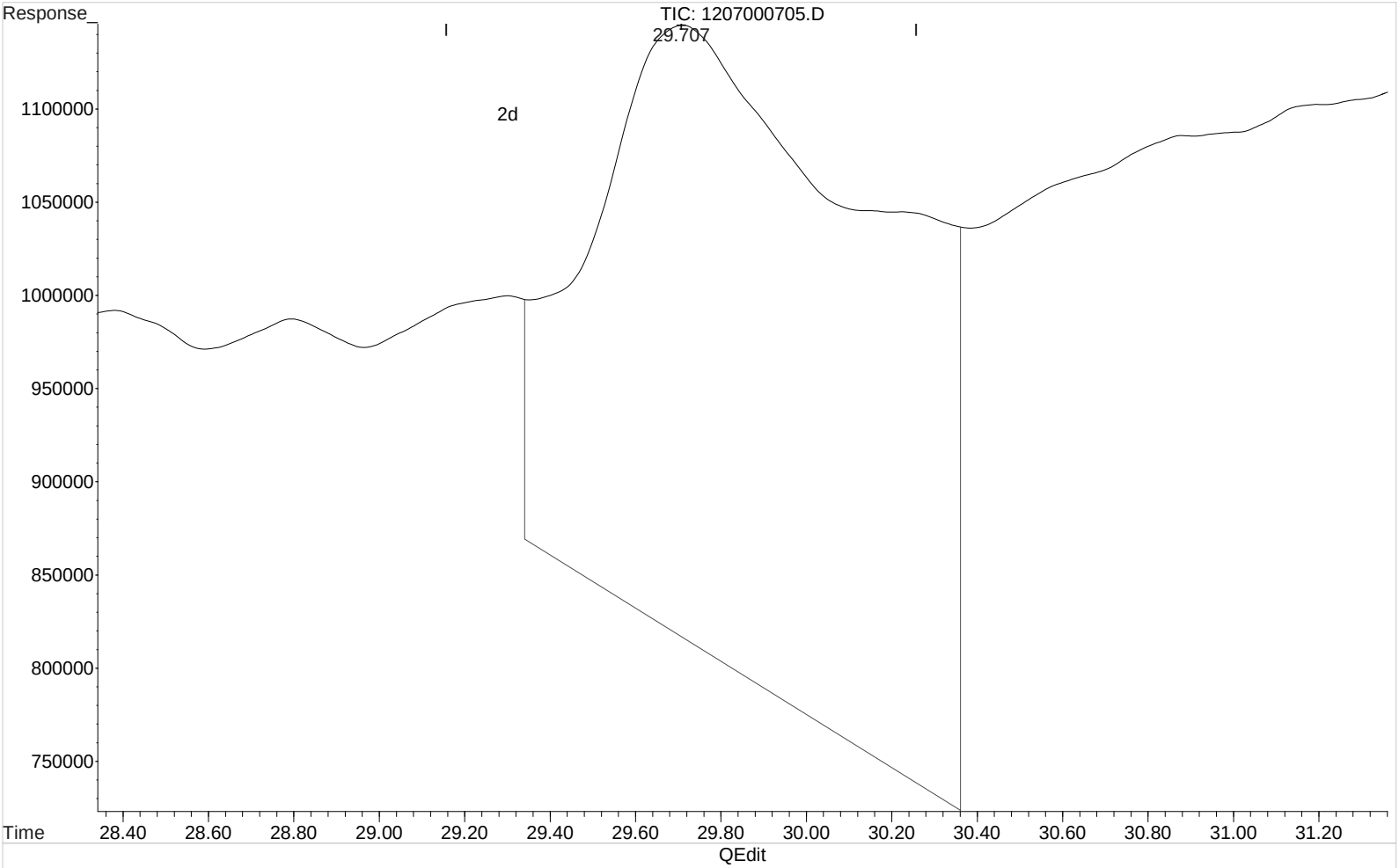
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:26:17 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

29.707min 0.000 ug/L

response 16661309

Manual Integration:

Before

12/08/16

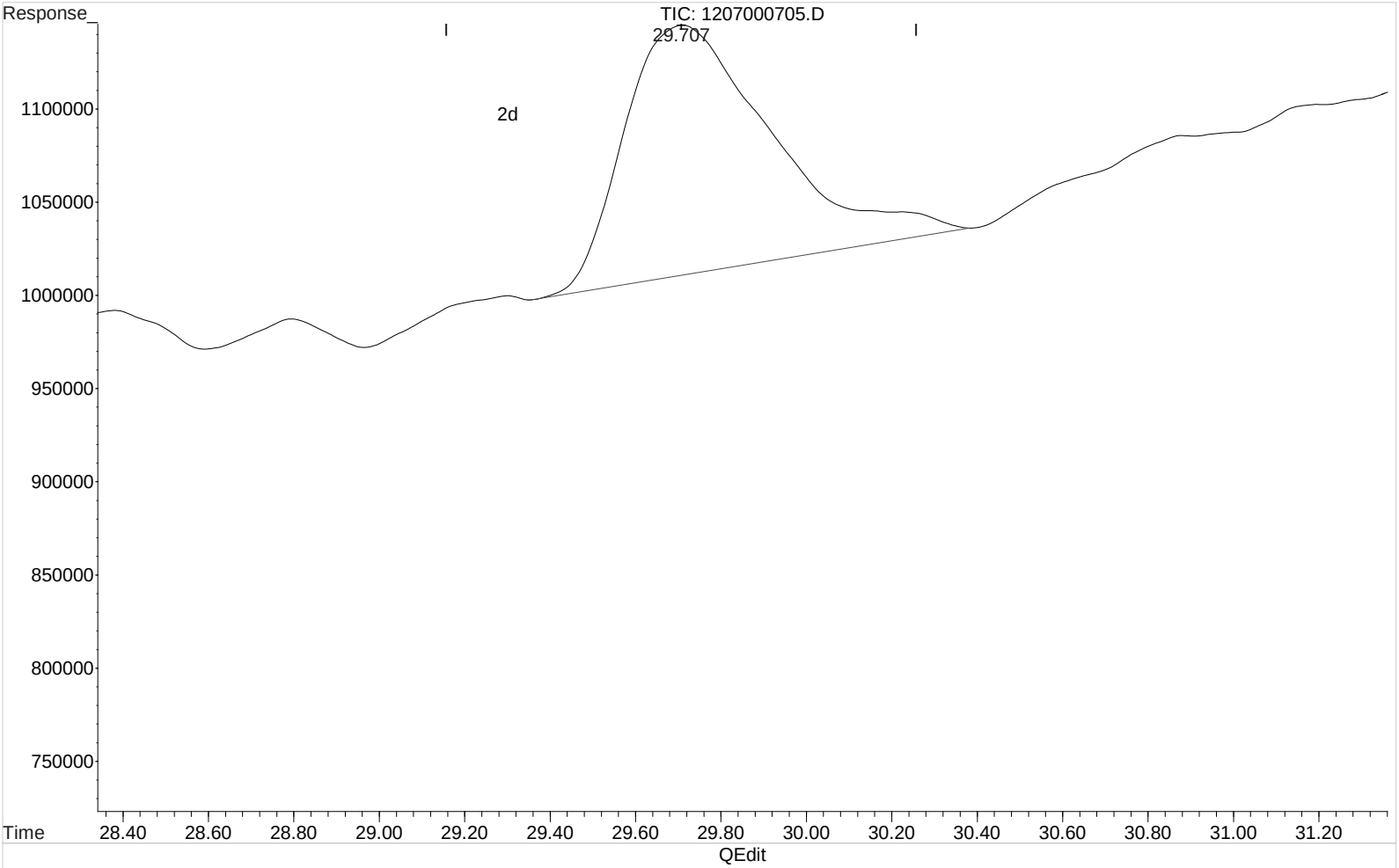
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000705.D Vial: 4
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:26:17 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:26:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.707min 0.000 ug/L m

response 3217434

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:28:57 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	29.681	5676794	88.219 ug/L m
Target Compounds				
1) T	Nitroglycerin	16.655	2024810	70.059 ug/L m
2) T	PETN	27.755	1480479	55.919 ug/L m

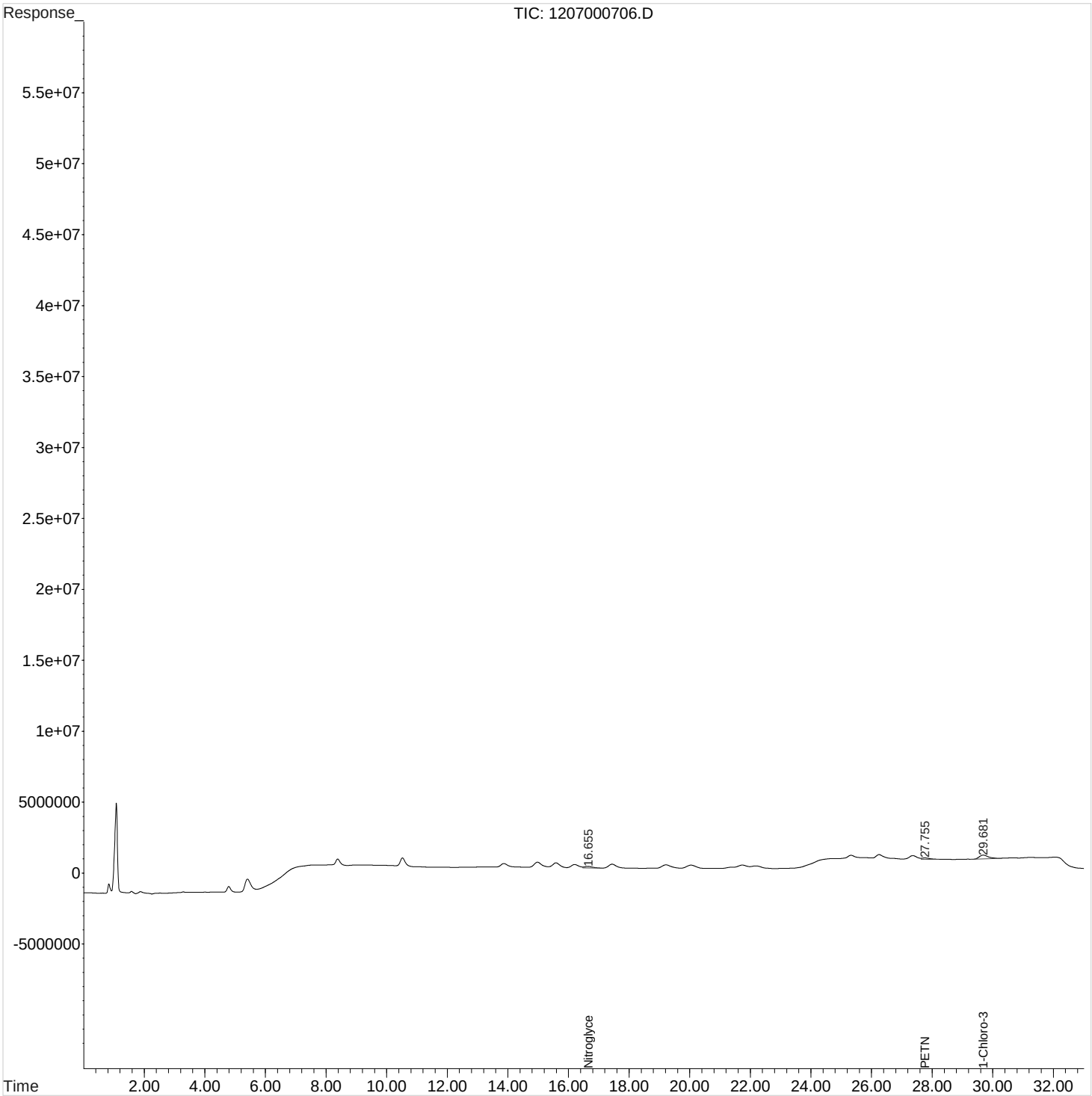
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:28:57 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

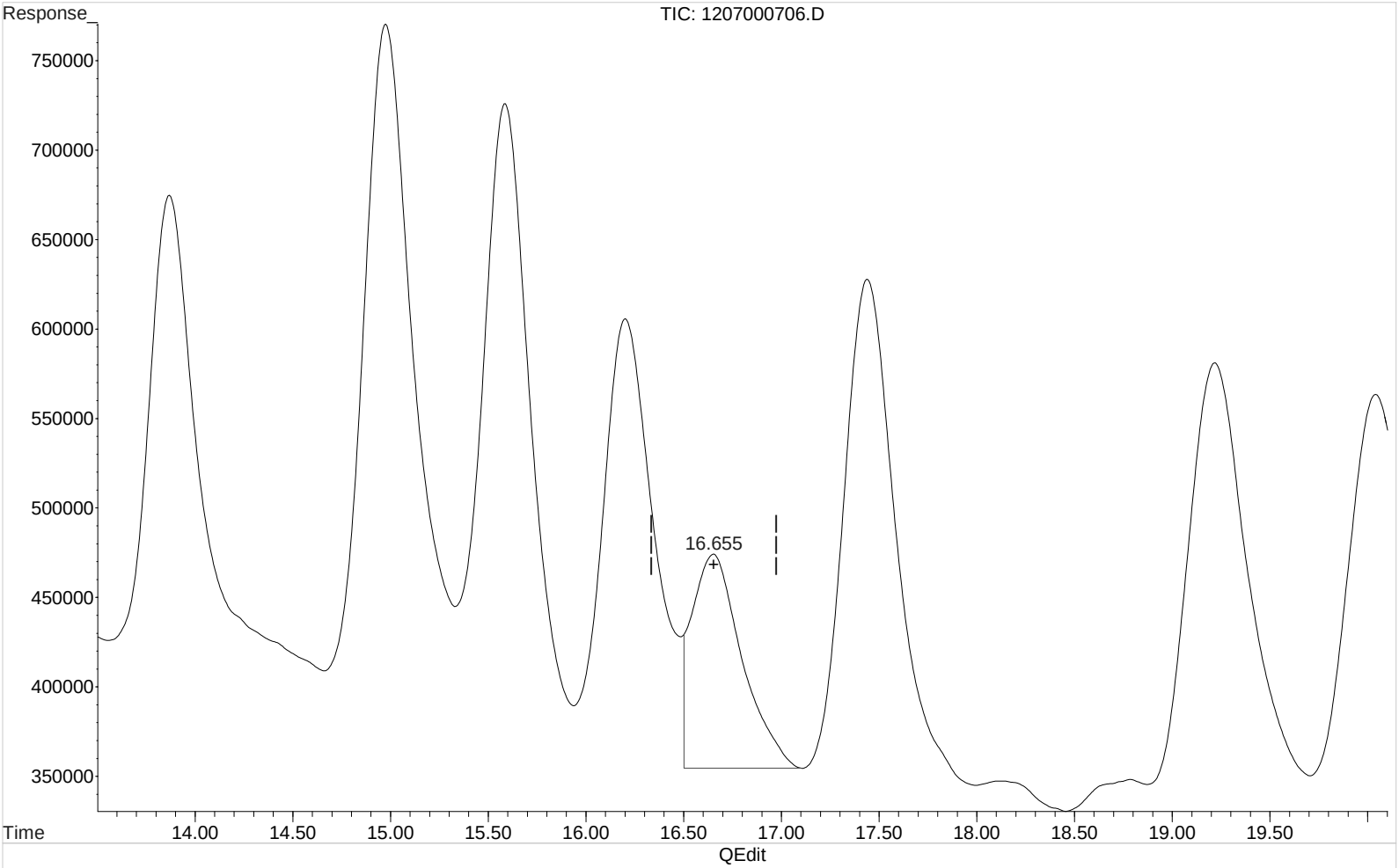


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.655min 73.227 ug/L

response 2116350

Manual Integration:

Before

12/08/16

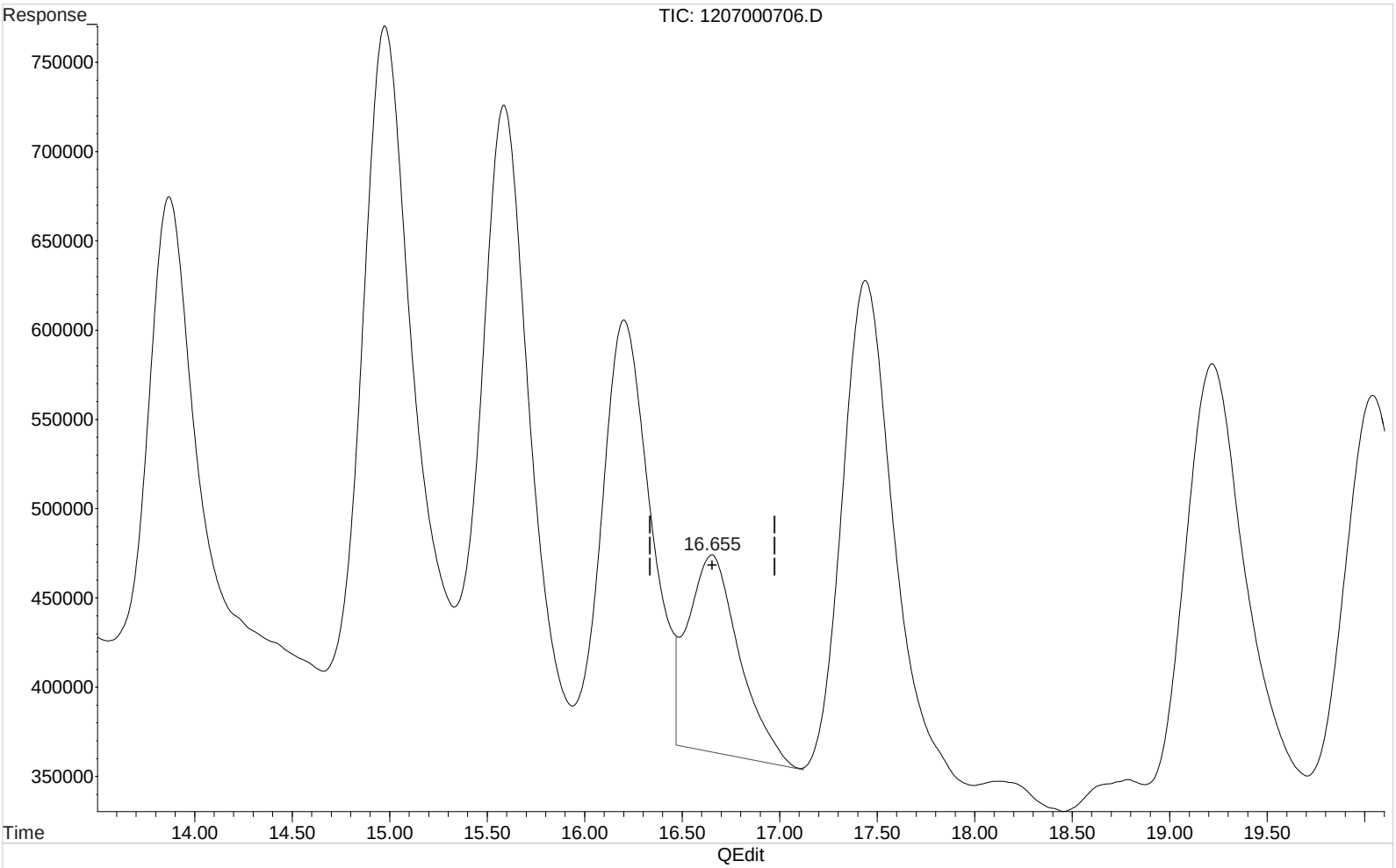
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.655min 70.059 ug/L m

response 2024810

Manual Integration:

After

BLC

12/08/16

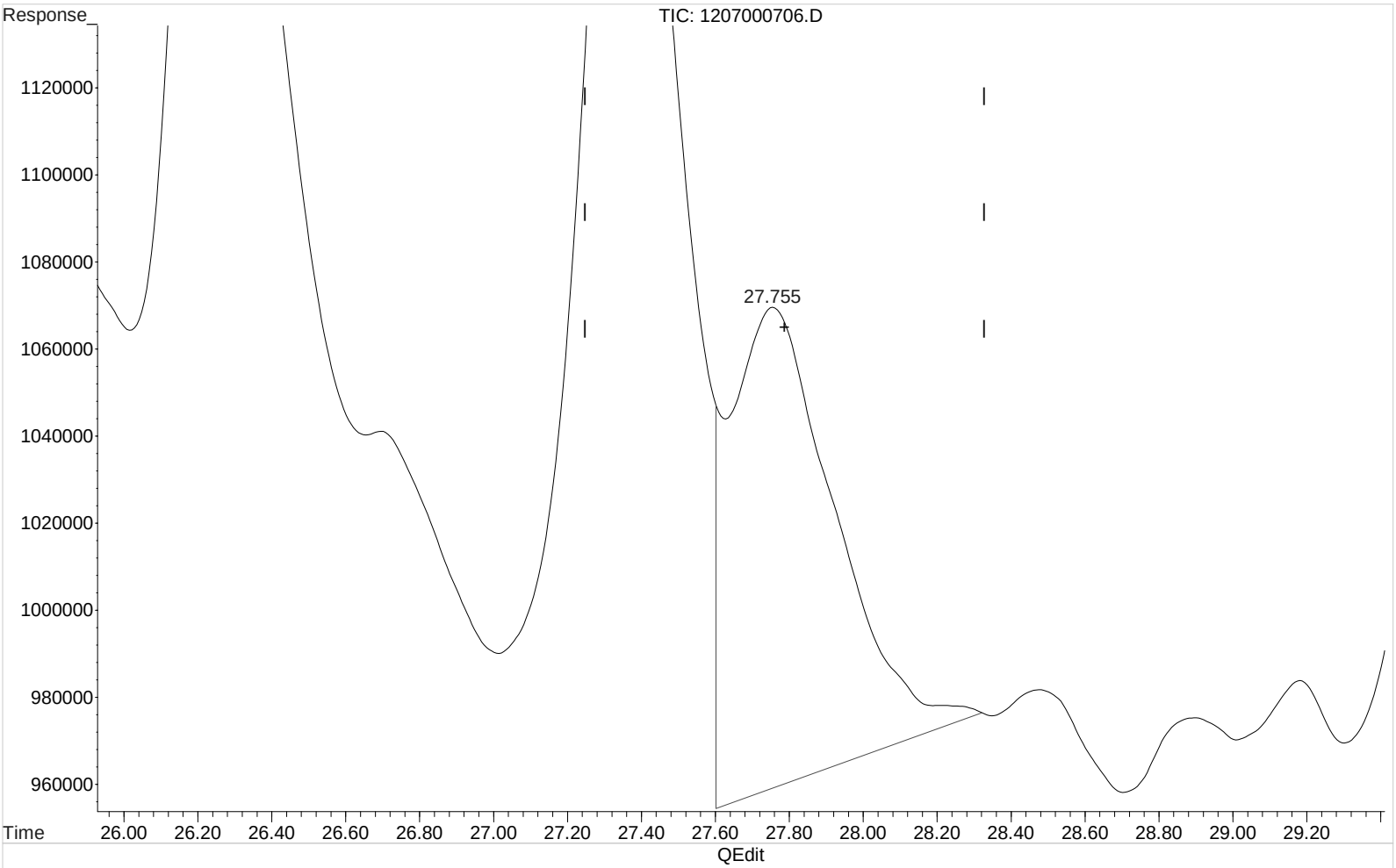
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.755min 83.103 ug/L

response 2200200

Manual Integration:

Before

12/08/16

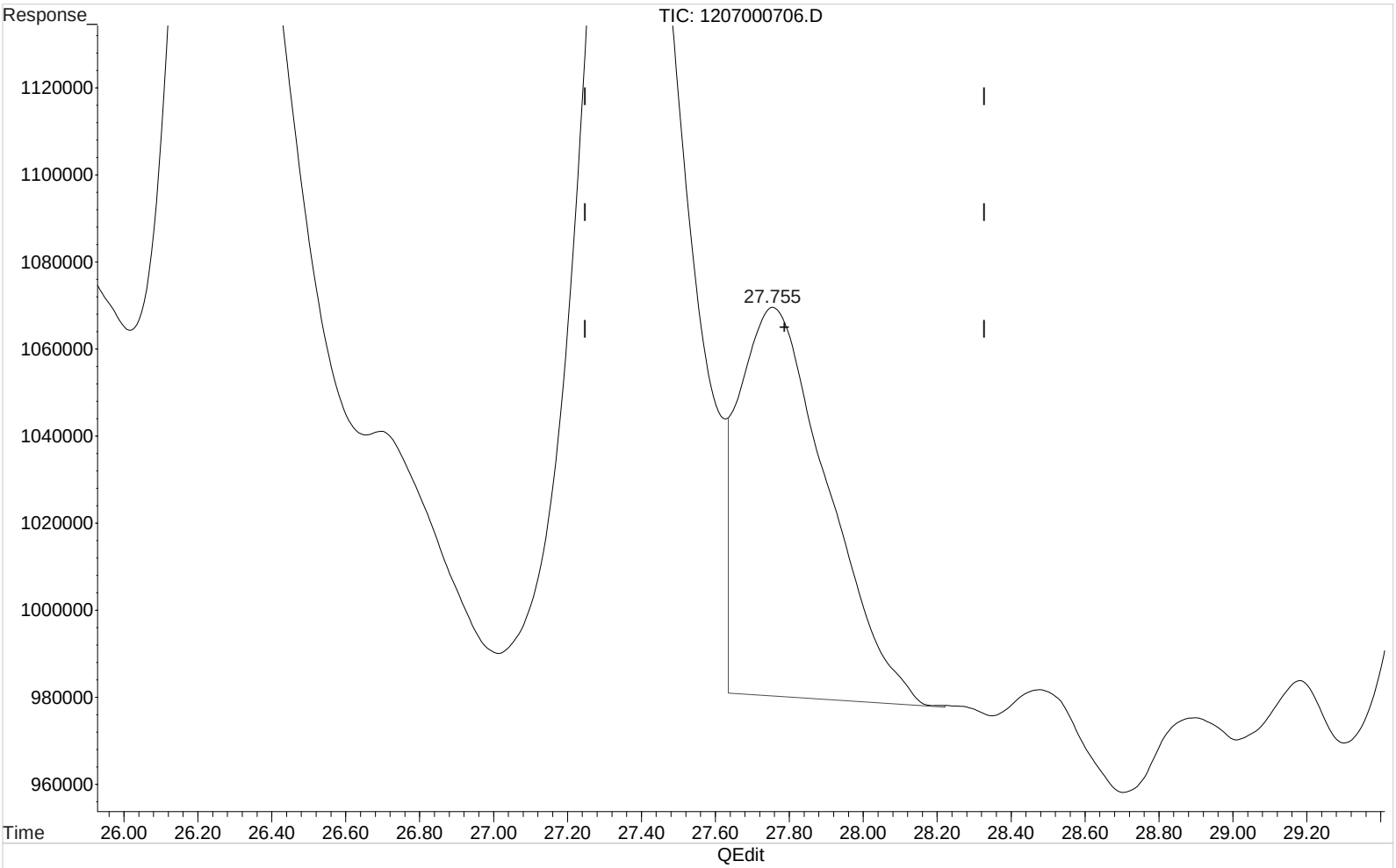
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.755min 55.919 ug/L m

response 1480479

Manual Integration:

After

BLC

12/08/16

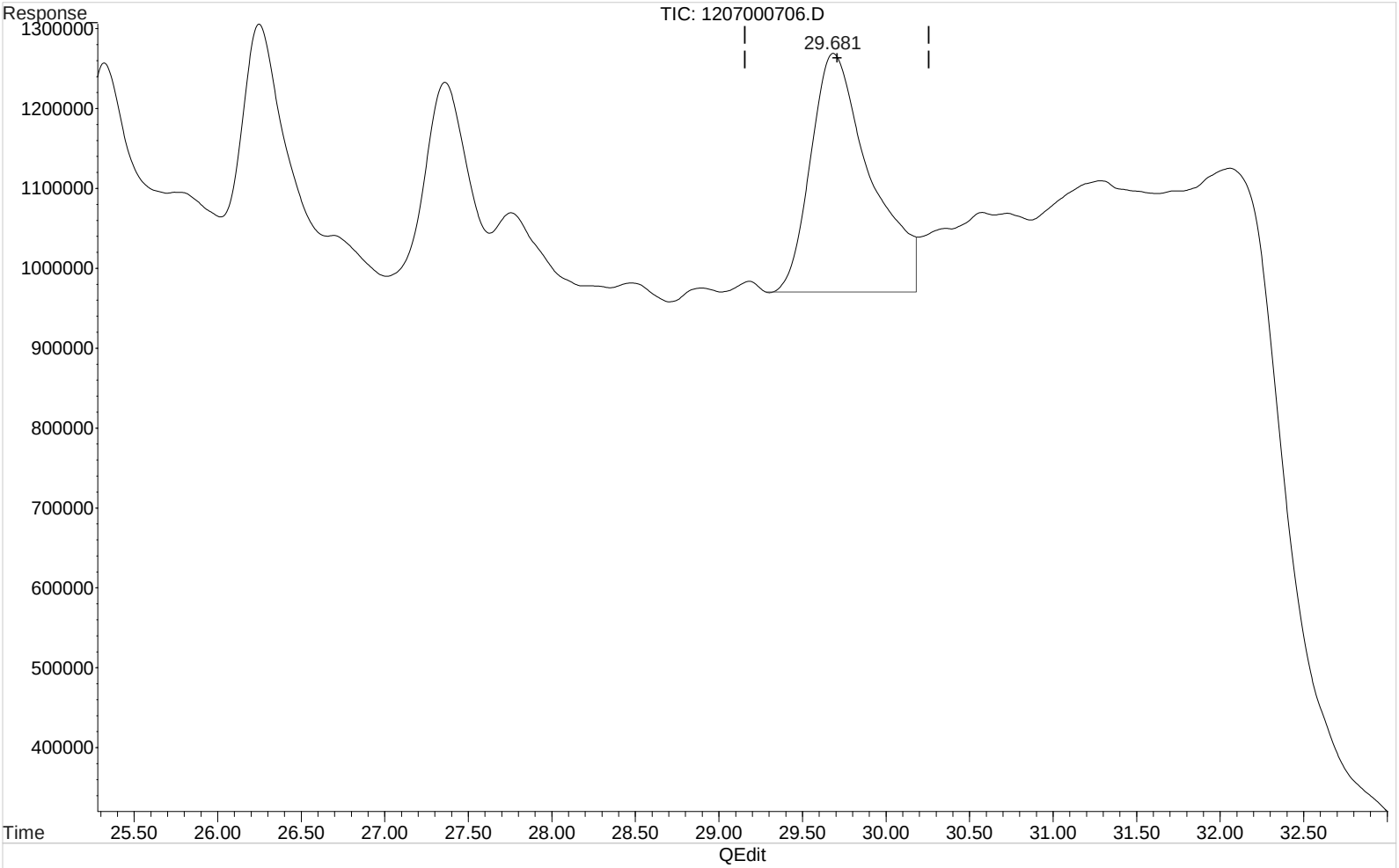
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.681min 115.316 ug/L

response 7420411

Manual Integration:

Before

12/08/16

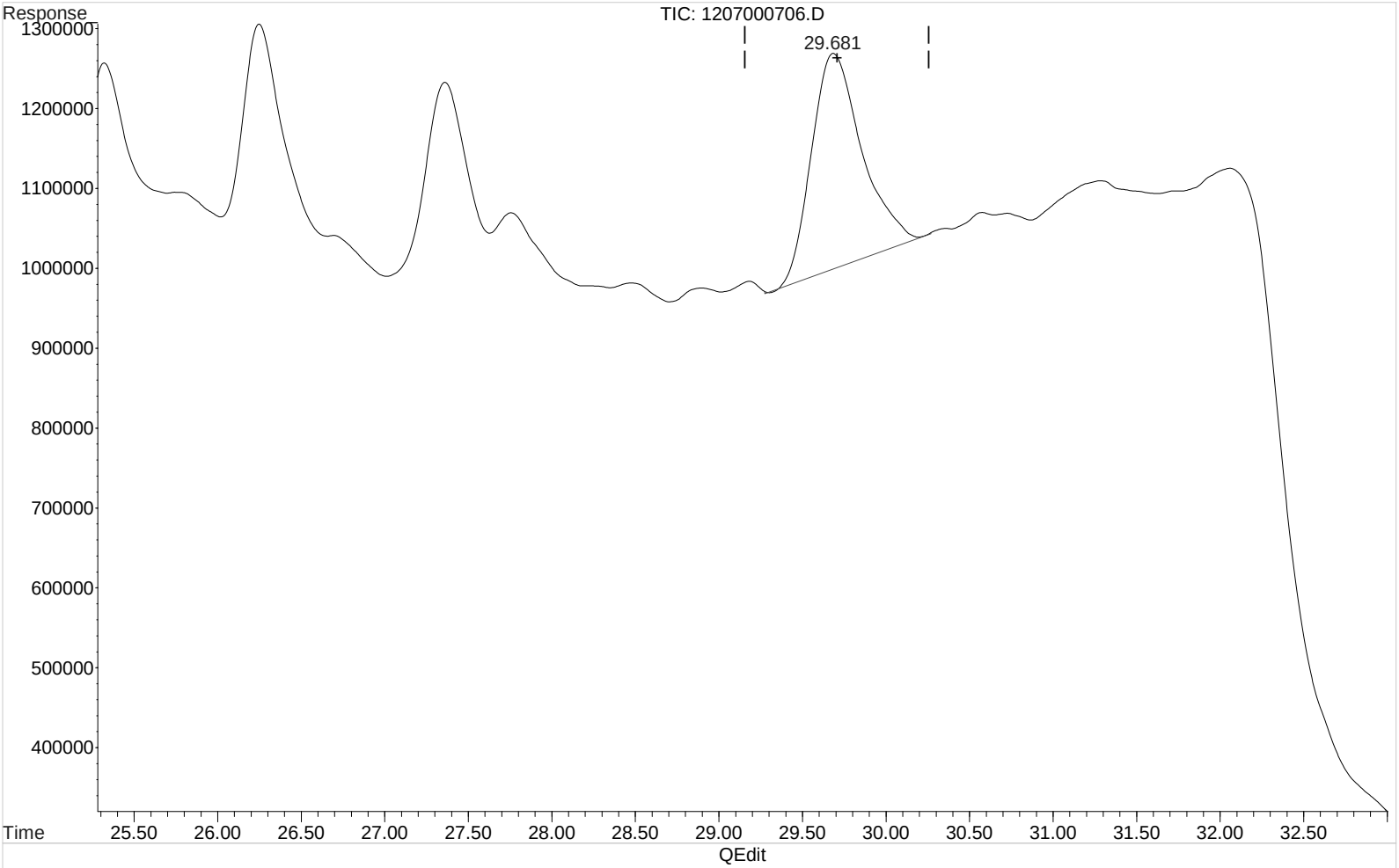
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000706.D Vial: 5
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:27:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:27:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

29.681min 88.219 ug/L m

response 5676794

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:07:38 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.700	11544733	190.638	ug/L	m
Target Compounds						
1) T	Nitroglycerin	16.646	3508399	142.764	ug/L	m
2) T	PETN	27.773	3761772	182.254	ug/L	m

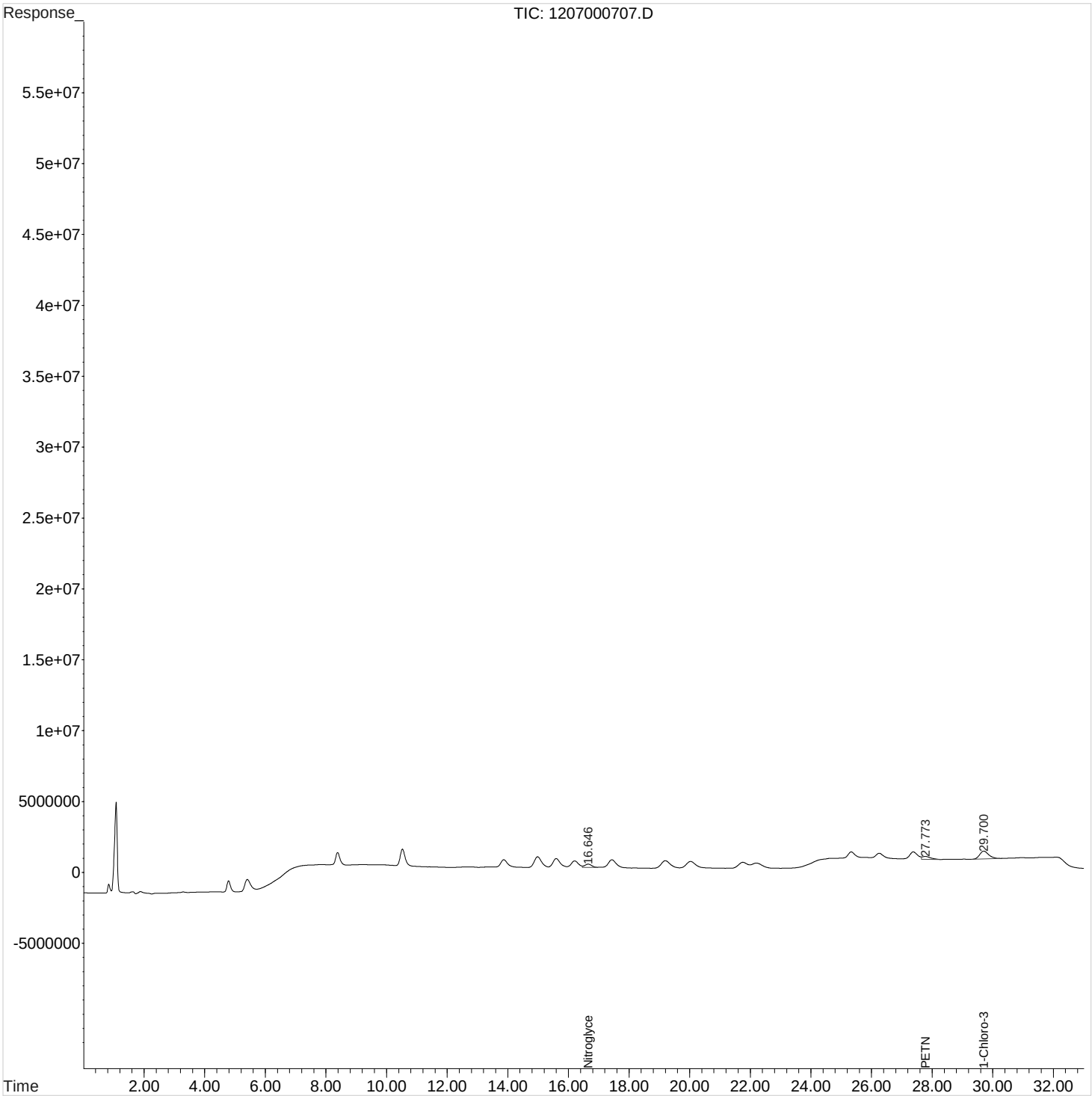
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:07:38 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

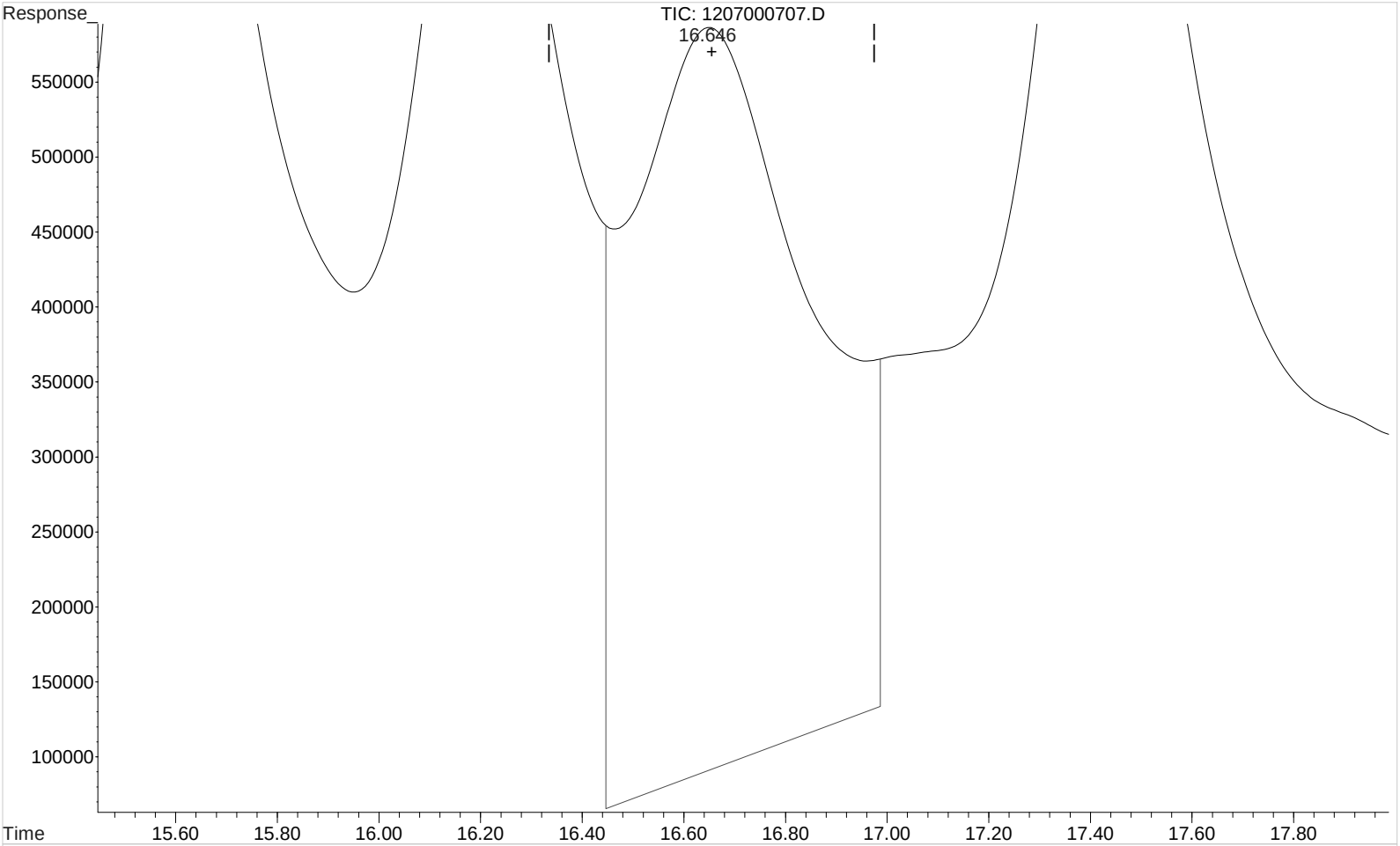


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:29:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.646min 492.695 ug/L

response 12107848

Manual Integration:

Before

12/08/16

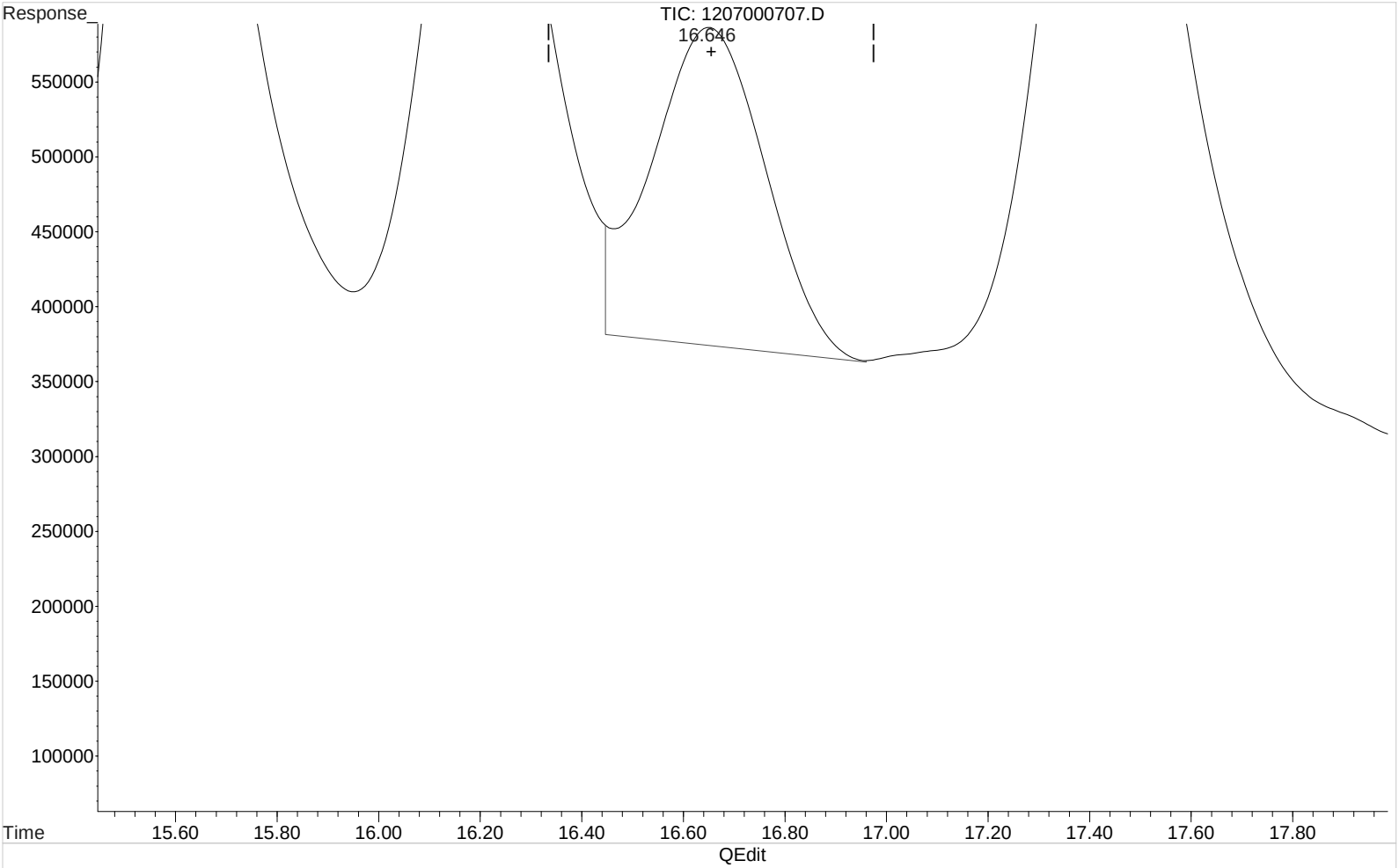
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:29:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.646min 133.721 ug/L m

response 3286165

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)

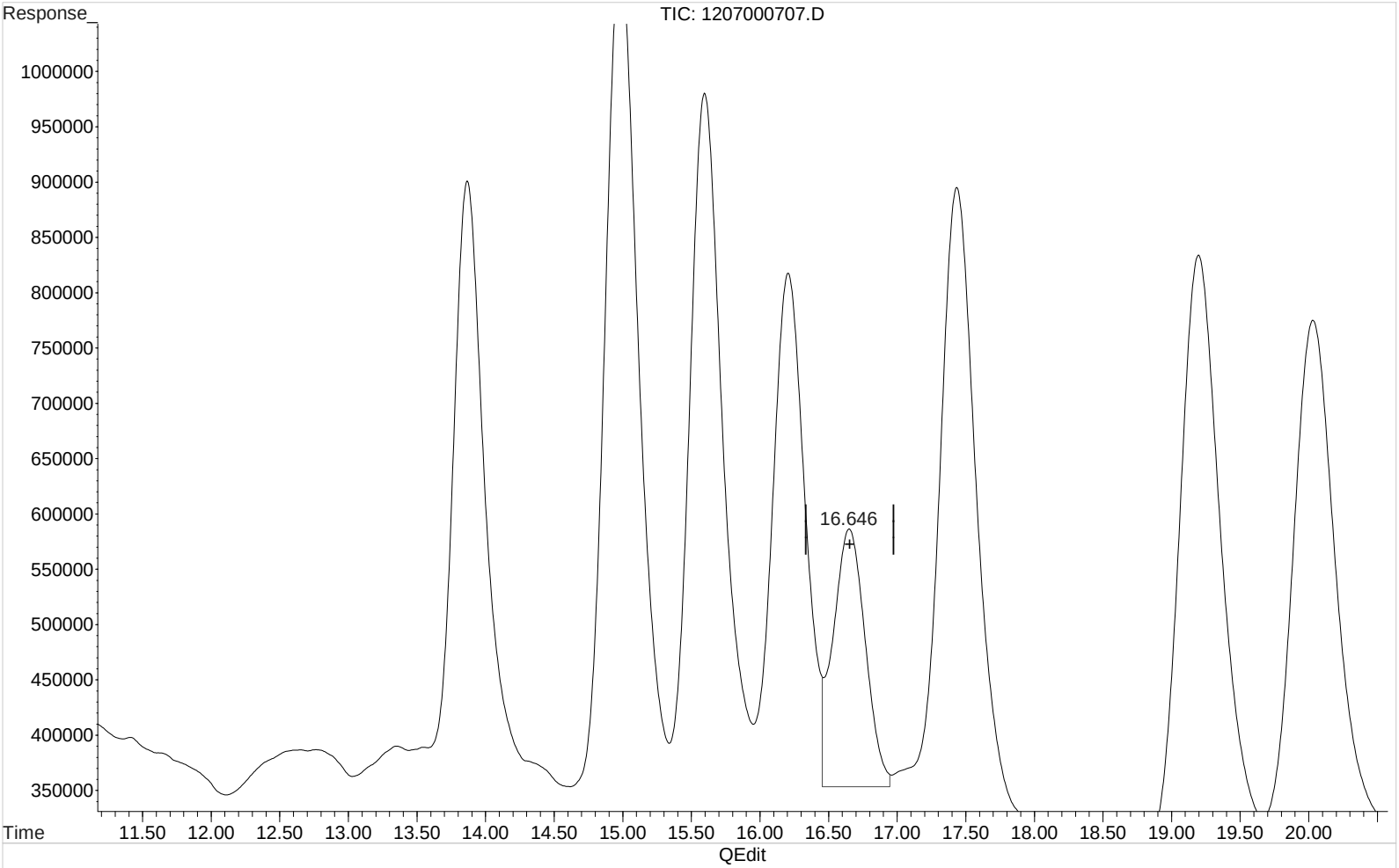
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:30:15 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.646min 155.245 ug/L m

response 3815102

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b) (6)

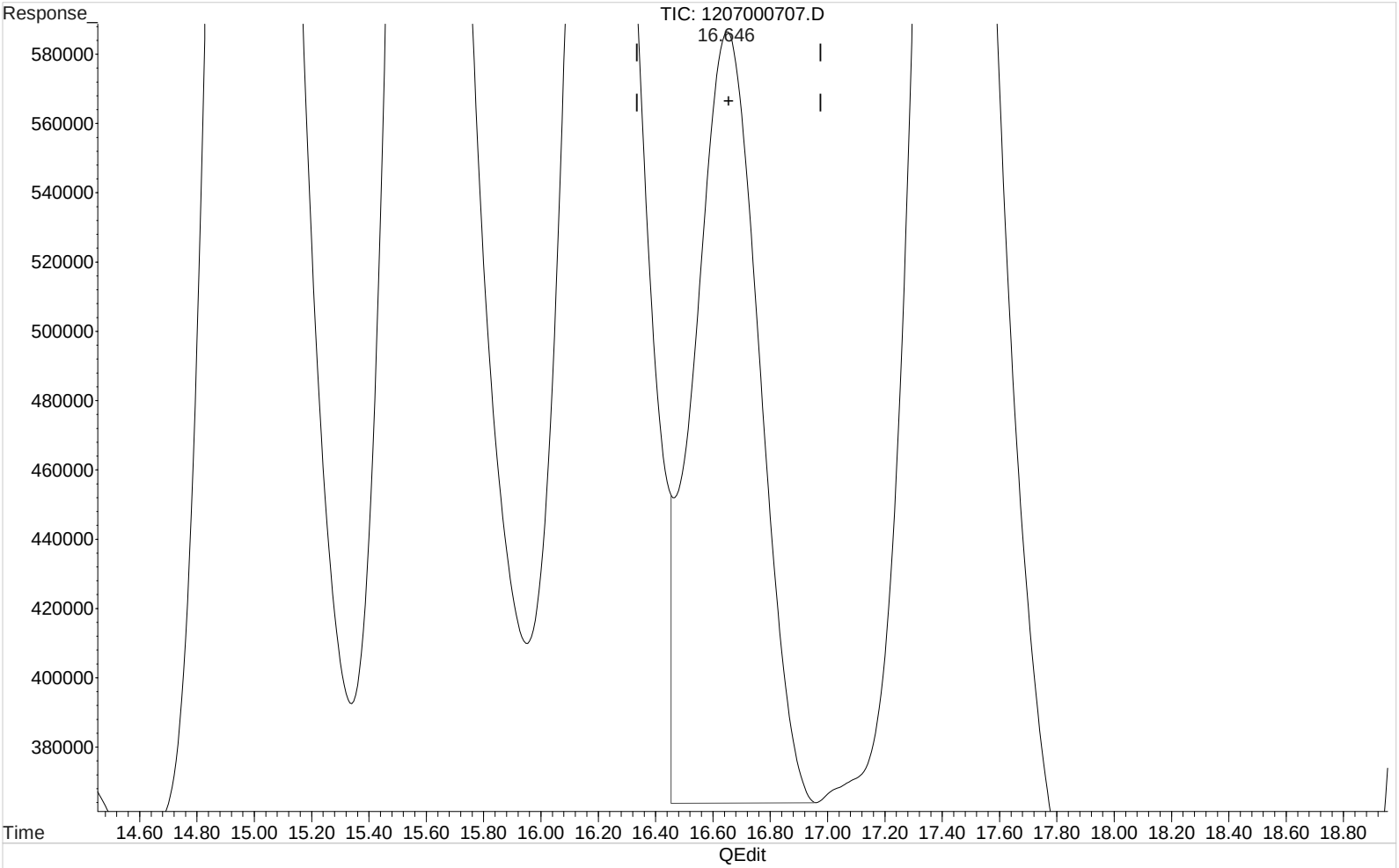
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:40:45 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.646min 142.764 ug/L m

response 3508399

Manual Integration:

After

Baseline/Shoulder

12/08/16

(+) = Expected Retention Time

(b) (6)

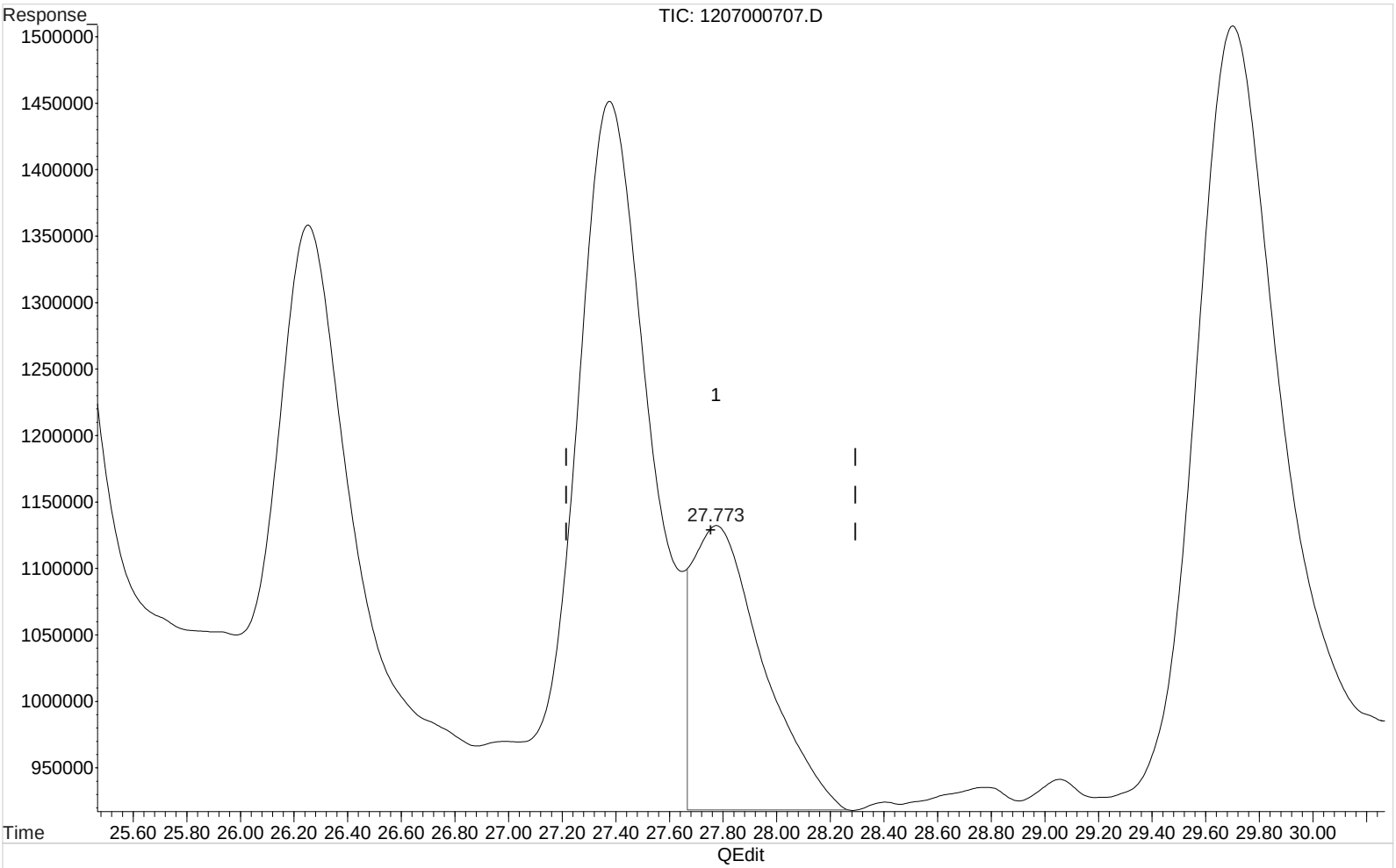
2/08/16

2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:29:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.773min 187.377 ug/L

response 3867500

Manual Integration:

Before

12/08/16

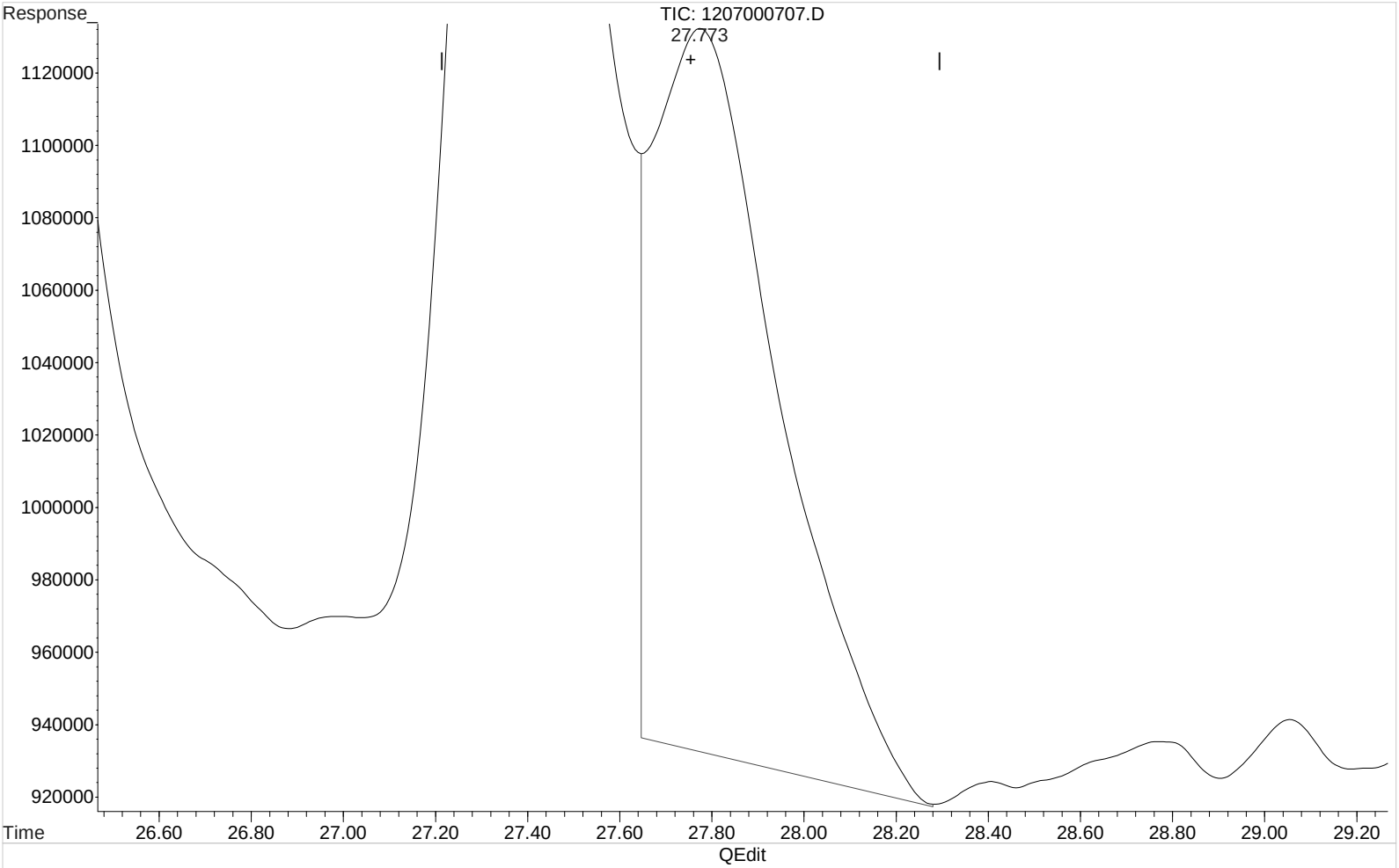
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:40:45 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.773min 182.254 ug/L m

response 3761772

Manual Integration:

After

Baseline/Shoulder

12/08/16

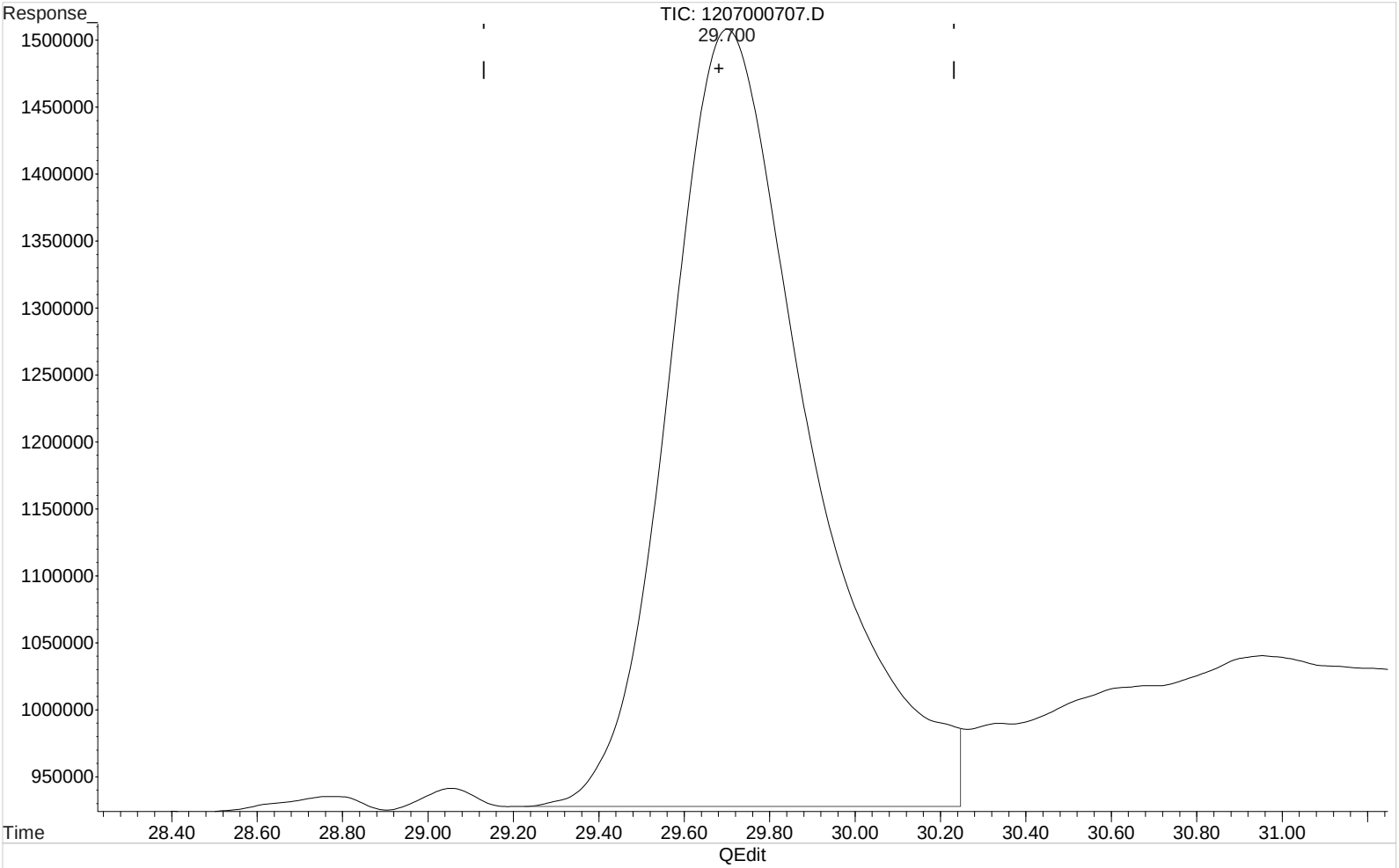
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:29:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.700min 218.688 ug/L

response 13243379

Manual Integration:

Before

12/08/16

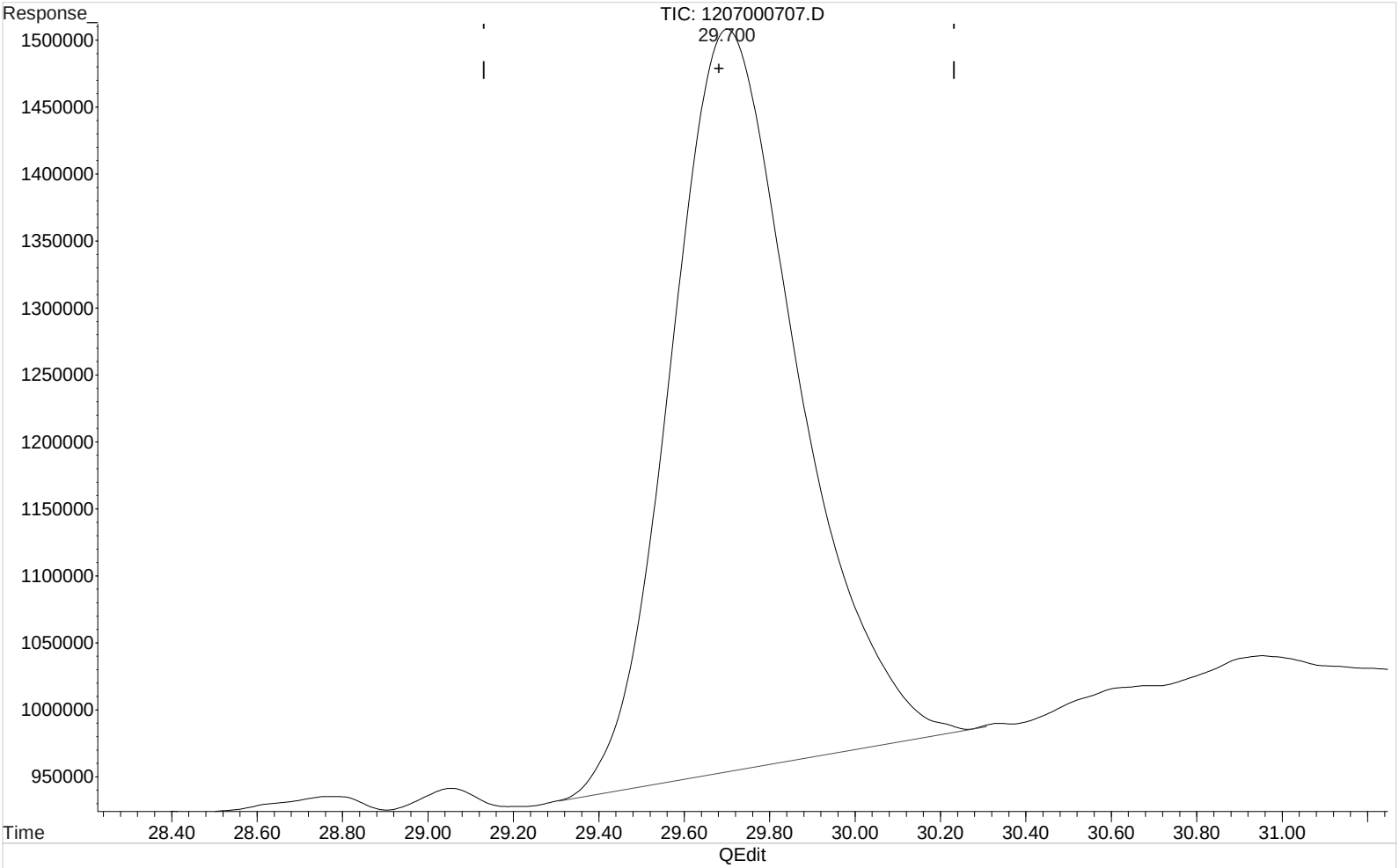
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000707.D Vial: 6
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:29:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:29:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.700min 190.638 ug/L m

response 11544733

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000708.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:08:18 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:30:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	29.705	28560027	479.087 ug/L m
Target Compounds				
1) T	Nitroglycerin	16.639	11239759	514.168 ug/L
2) T	PETN	27.792	8986852	439.492 ug/L m

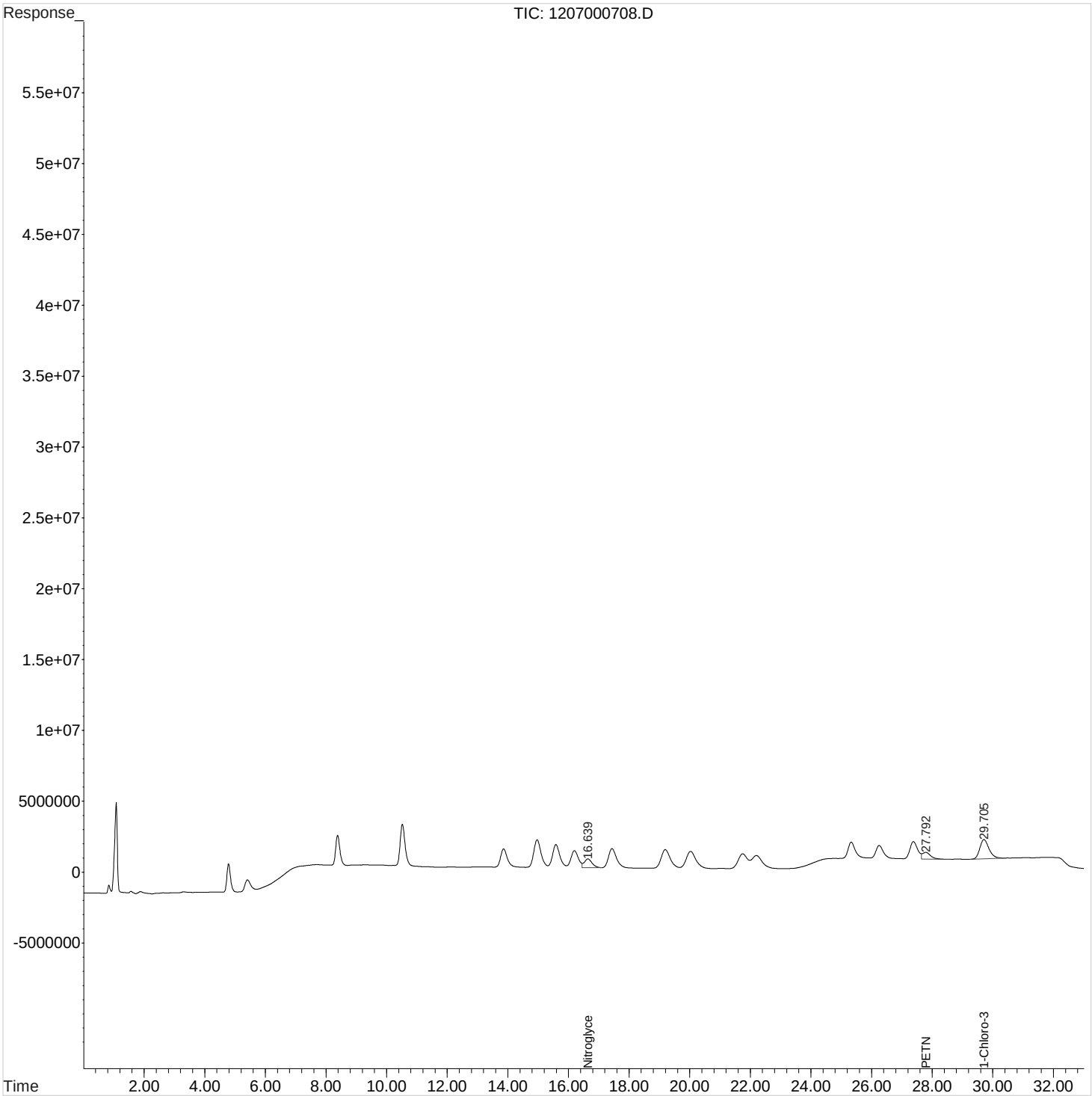
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000708.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:08:18 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:30:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

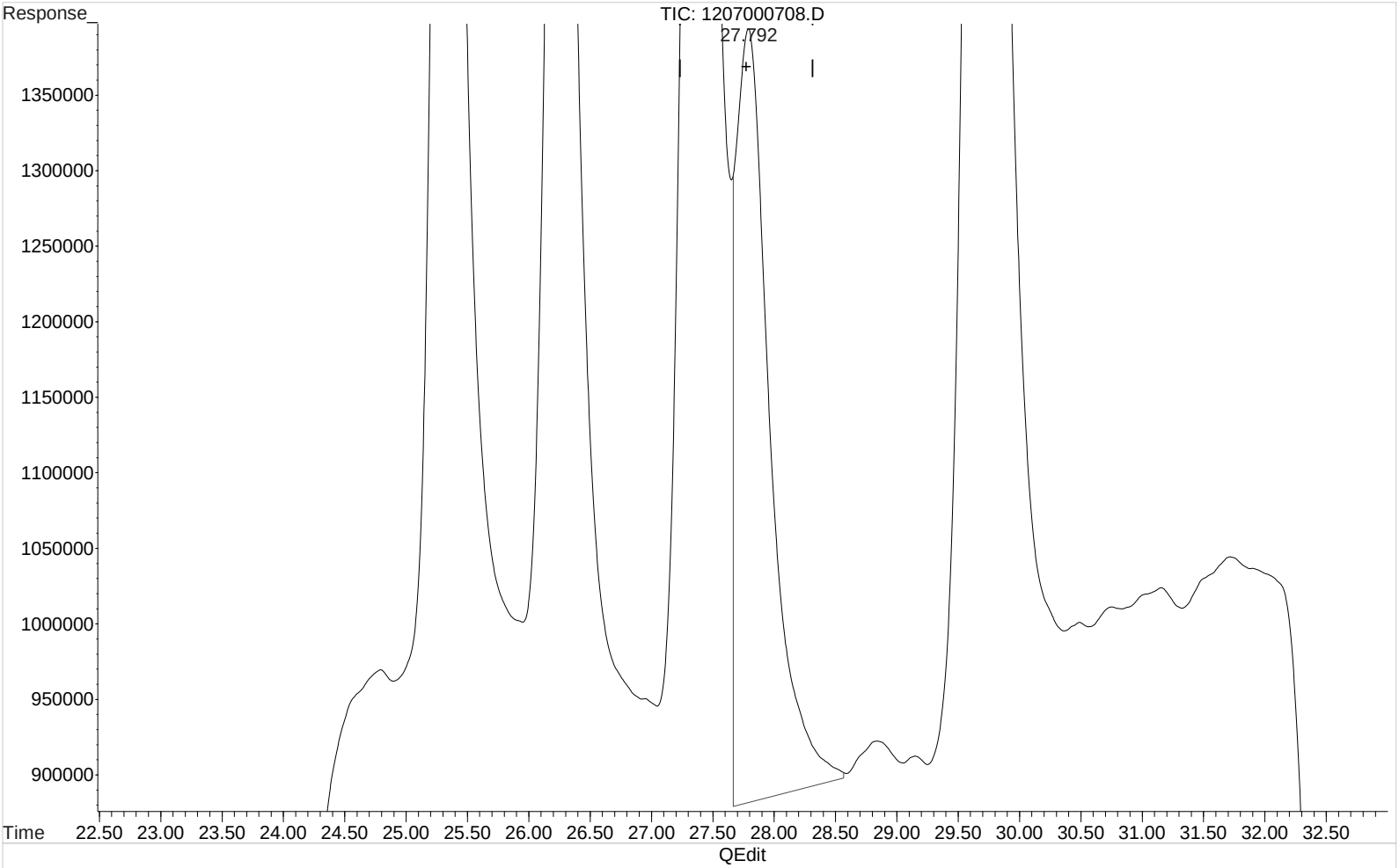


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000708.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:30:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:30:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.792min 480.822 ug/L

response 9831980

Manual Integration:

Before

12/08/16

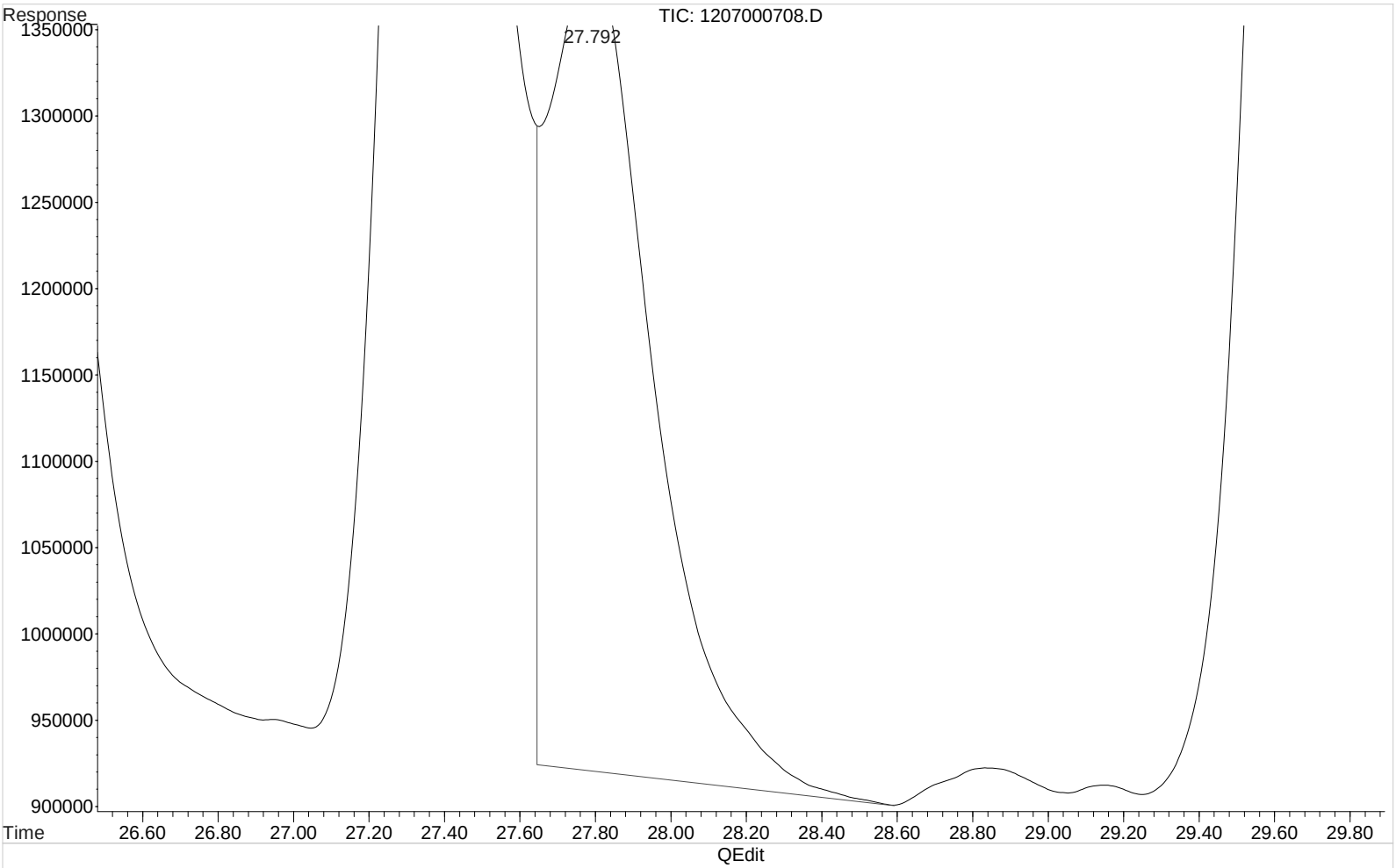
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000708.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:31:41 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:30:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.792min 439.492 ug/L m

response 8986852

Manual Integration:

After

Baseline/Shoulder

12/08/16

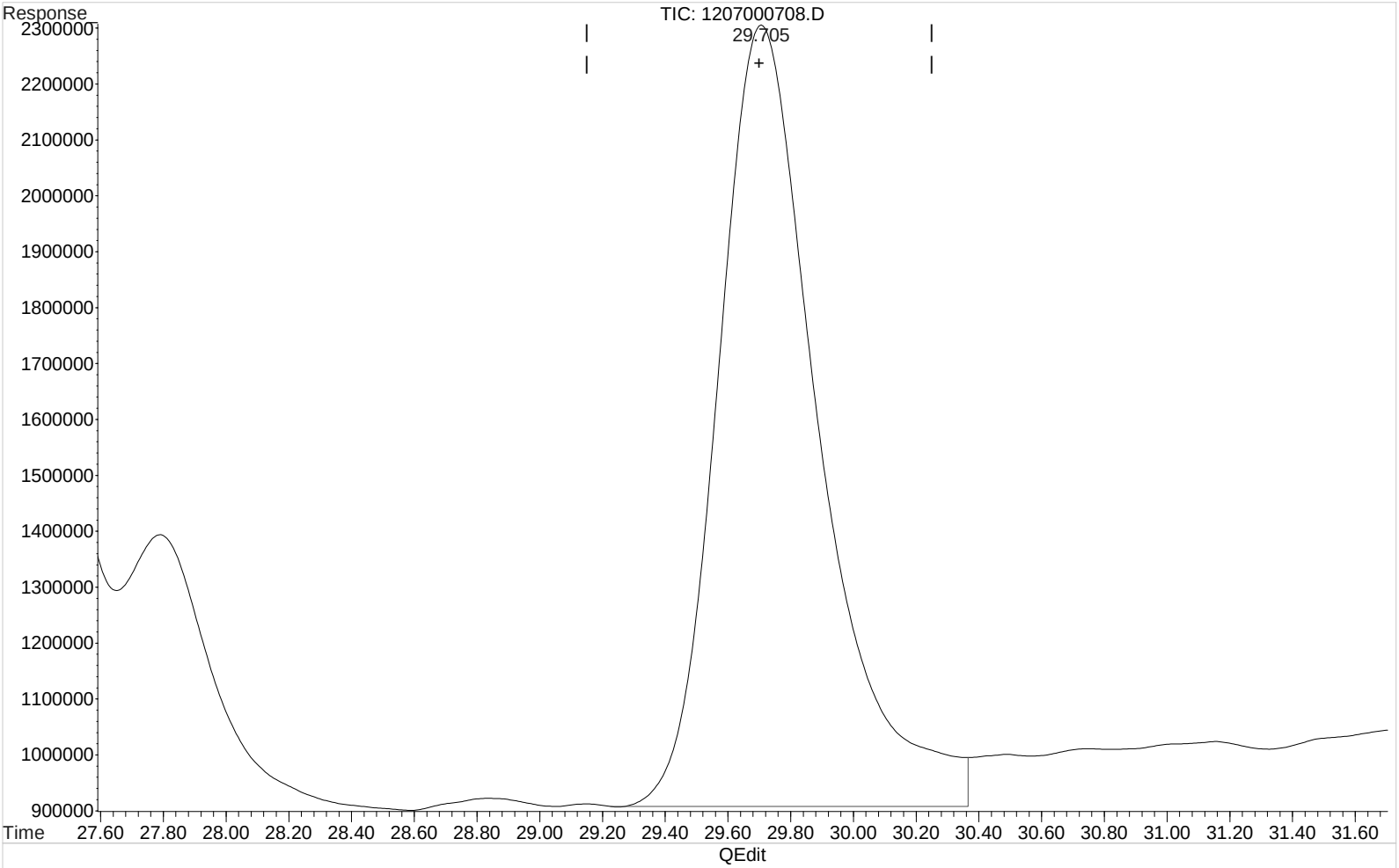
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000708.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:30:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:30:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.705min 527.464 ug/L

response 31443916

Manual Integration:

Before

12/08/16

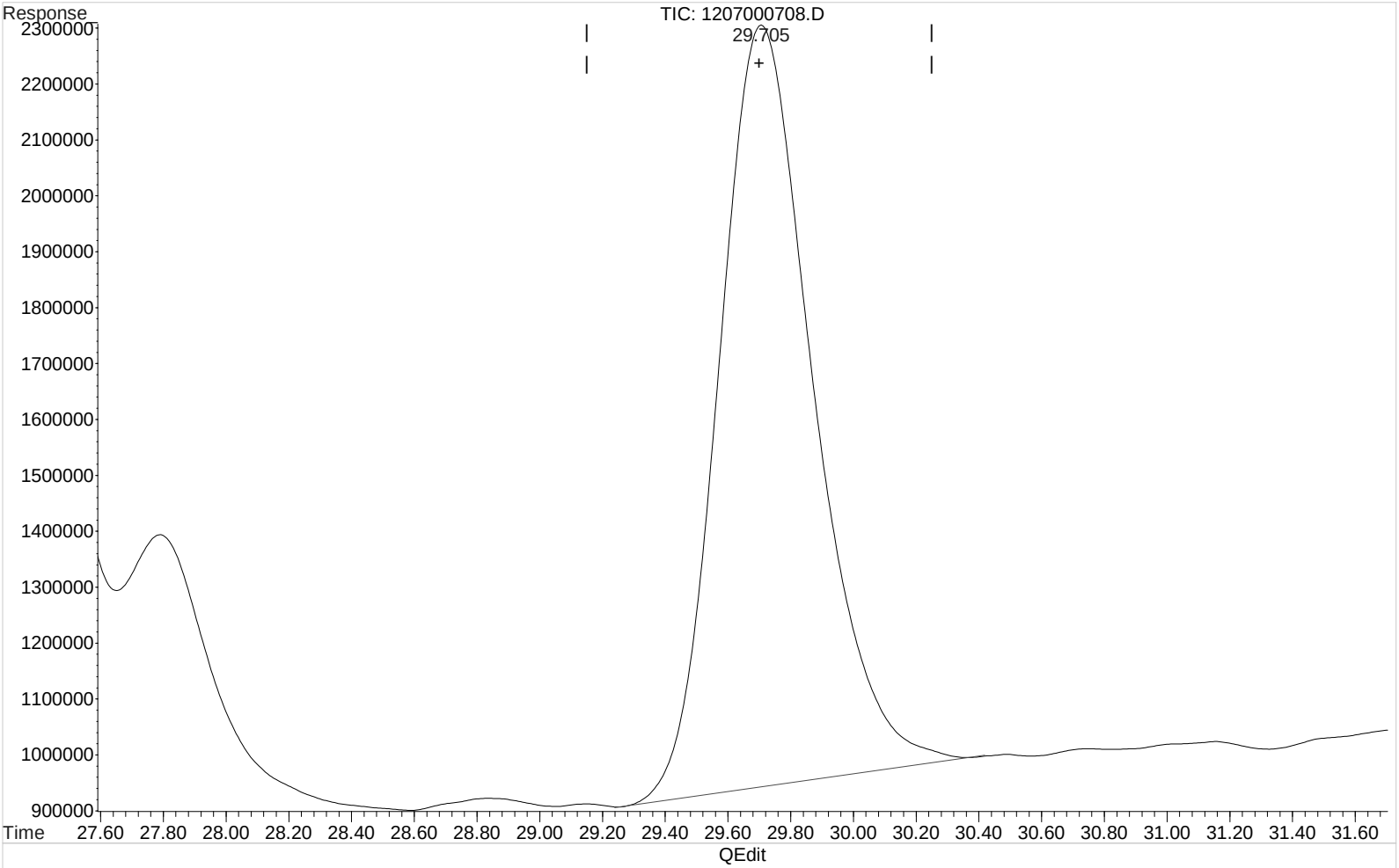
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000708.D Vial: 7
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:30:35 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:30:23 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.705min 479.087 ug/L m

response 28560027

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:33:37 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	29.704	55010487	932.538 ug/L m
Target Compounds				
1) T	Nitroglycerin	16.630	21521854	977.602 ug/L m
2) T	PETN	27.784	18036372	902.302 ug/L m

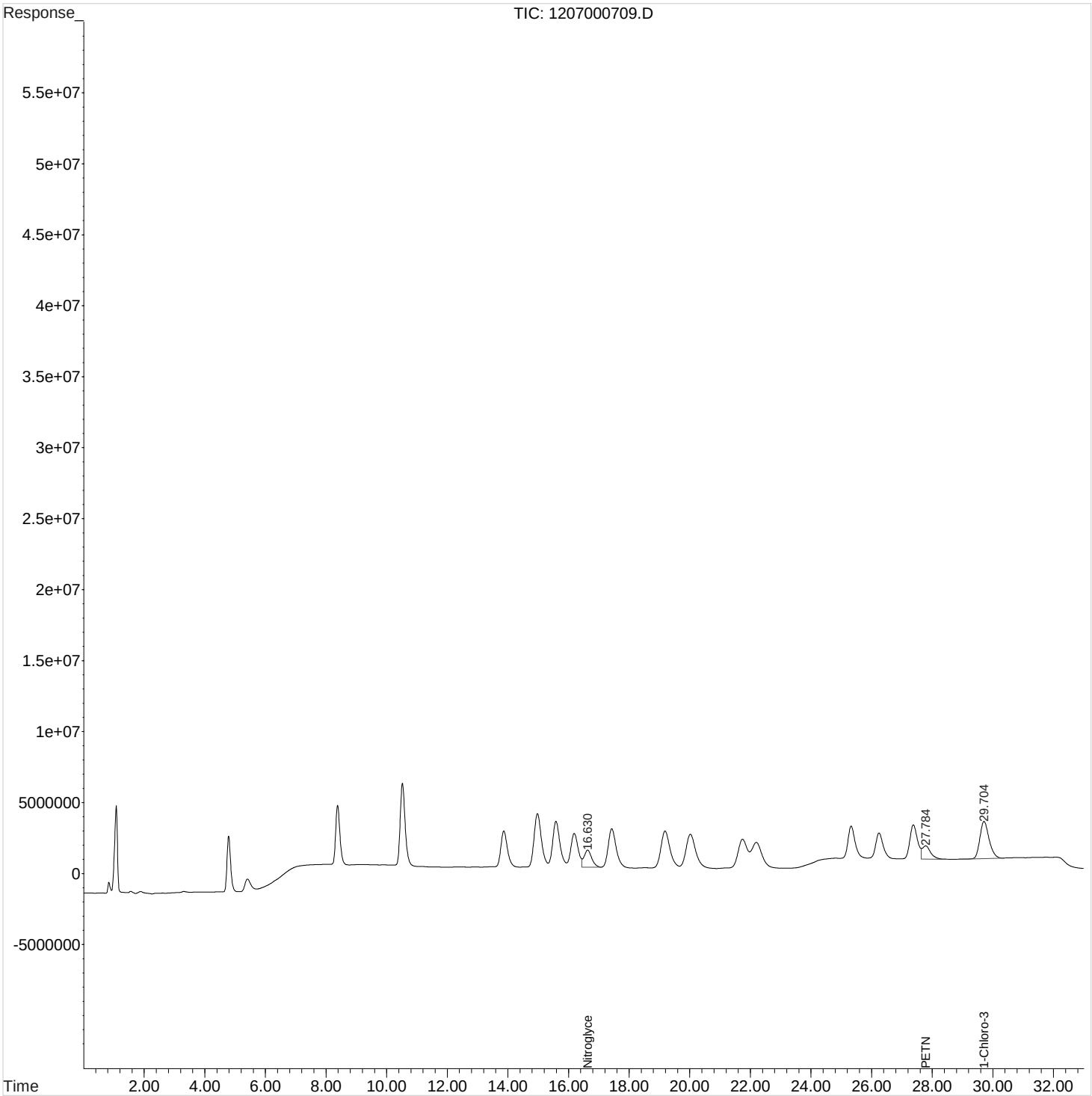
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:33:37 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

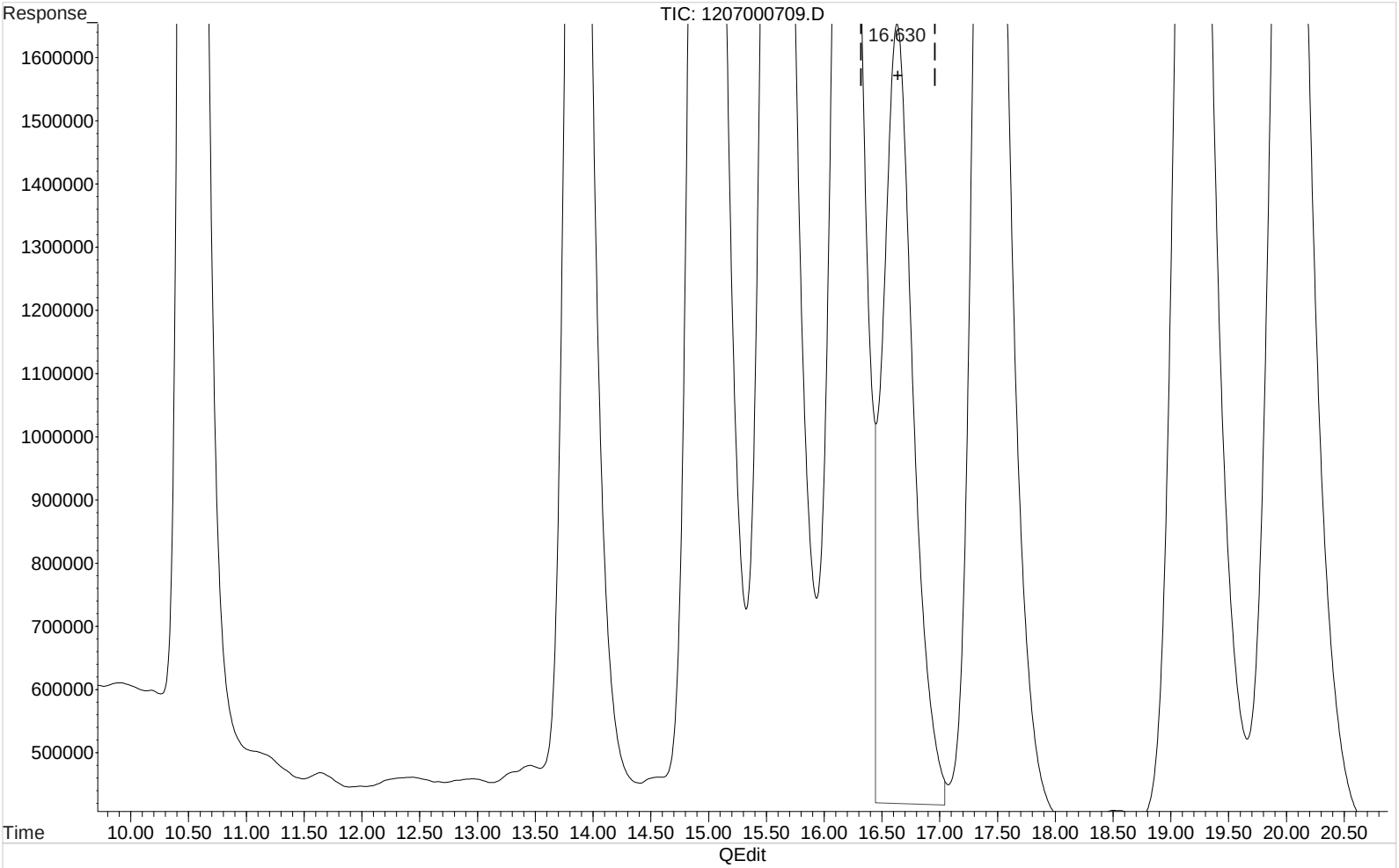


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:32:30 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.630min 1012.917 ug/L

response 22299324

Manual Integration:

Before

12/08/16

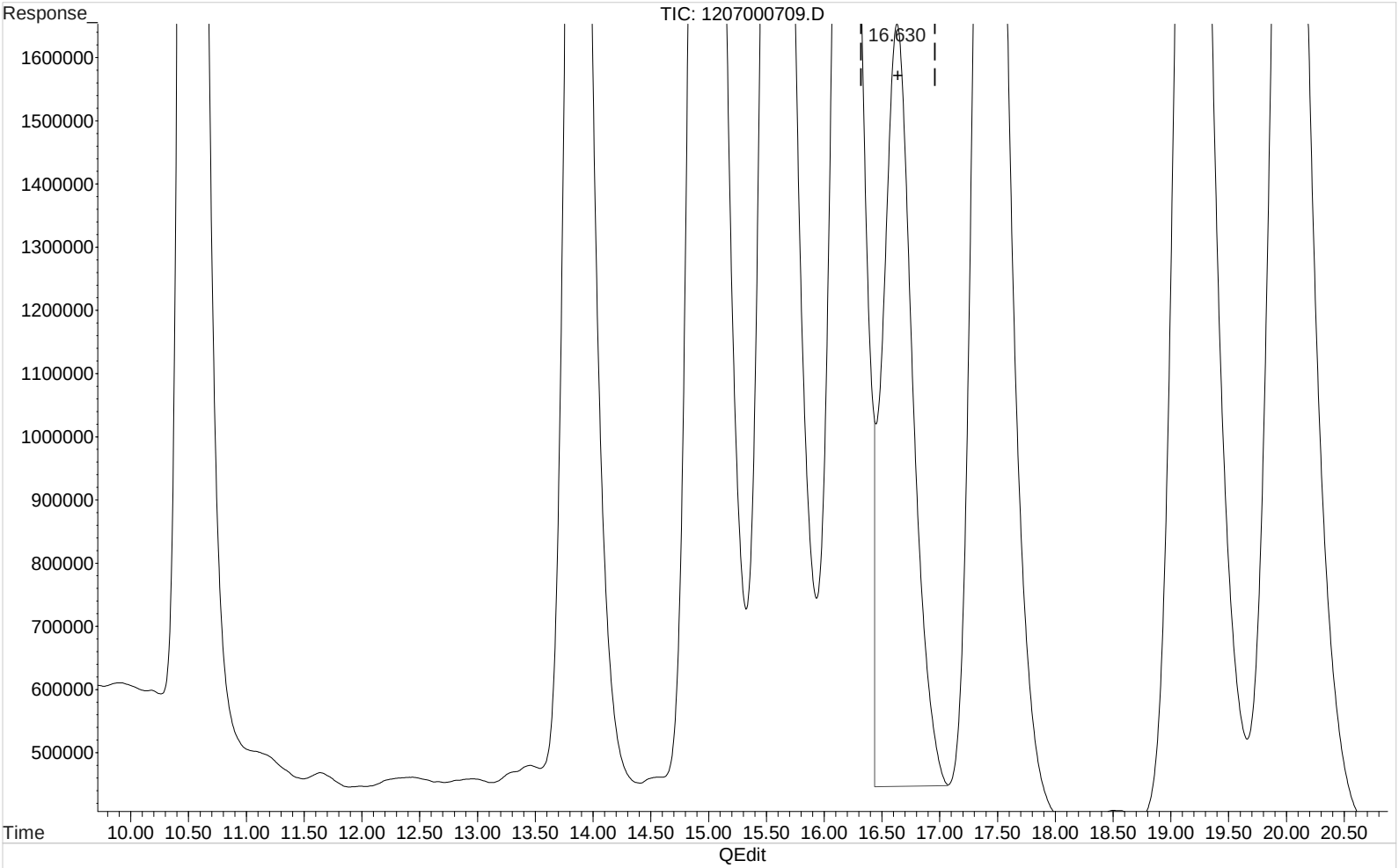
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:32:30 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.630min 977.602 ug/L m

response 21521854

Manual Integration:

After

BLC

12/08/16

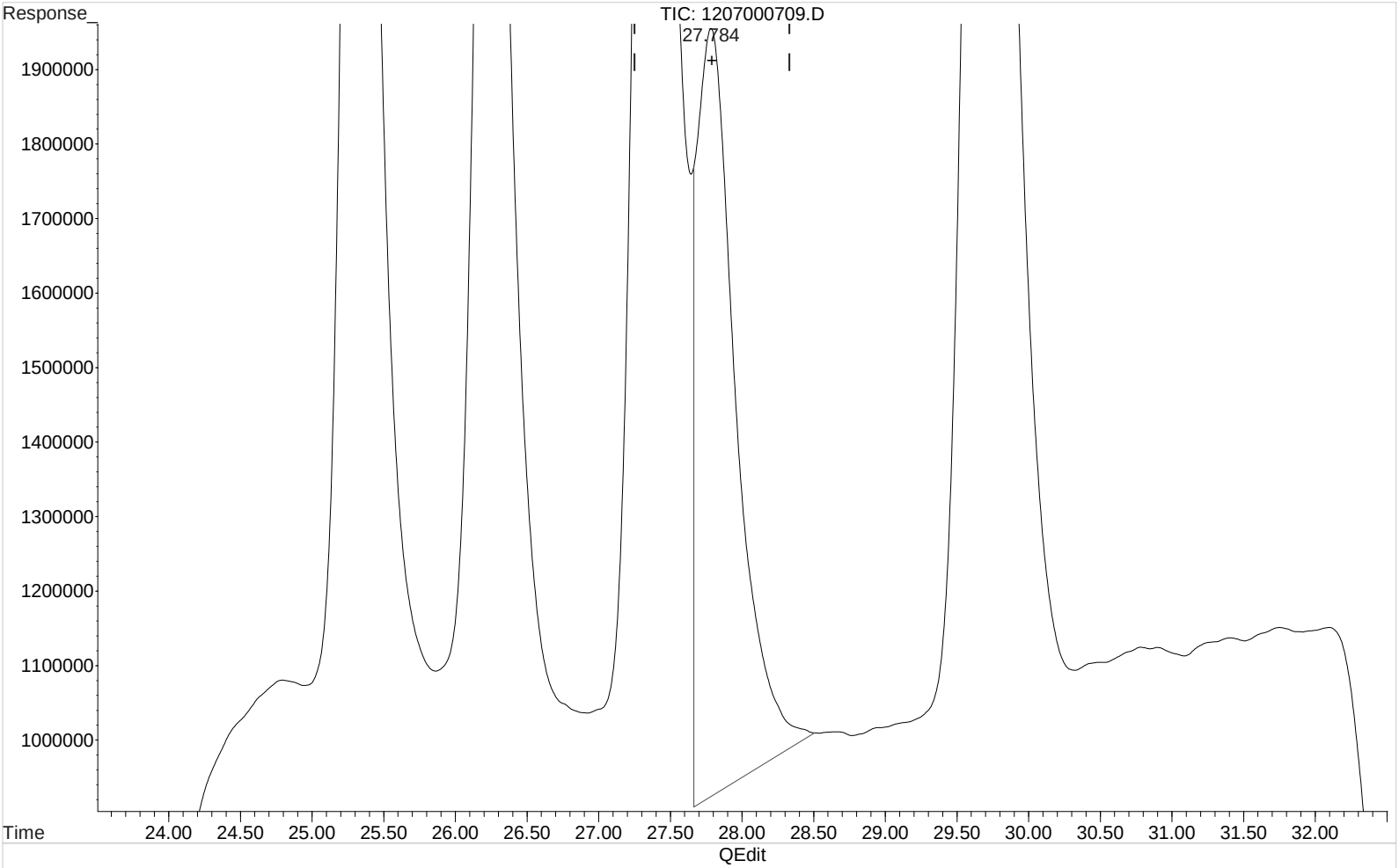
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:32:30 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.784min 975.465 ug/L

response 19498853

Manual Integration:

Before

12/08/16

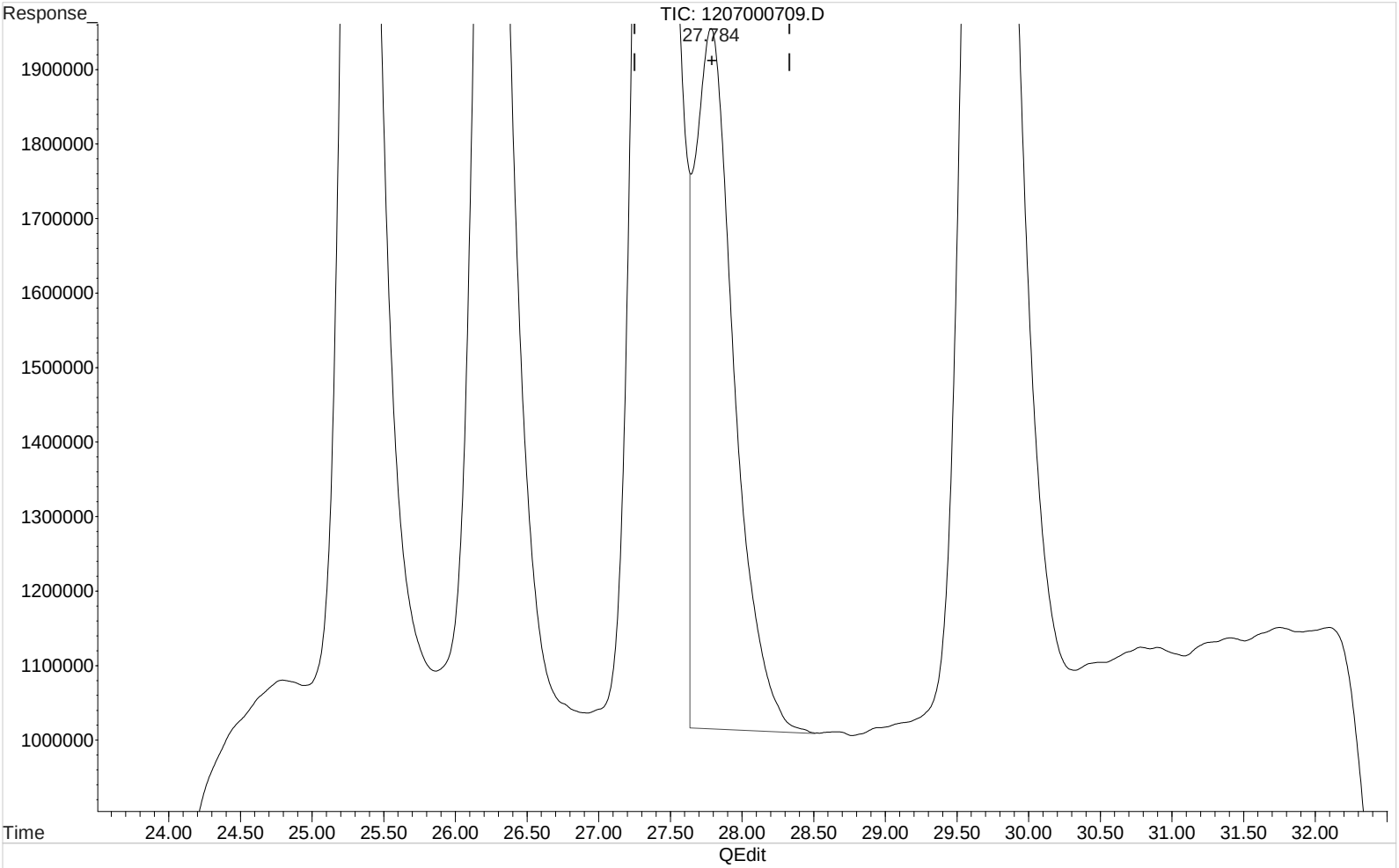
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:32:30 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.784min 902.302 ug/L m

response 18036372

Manual Integration:

After

BLC

12/08/16

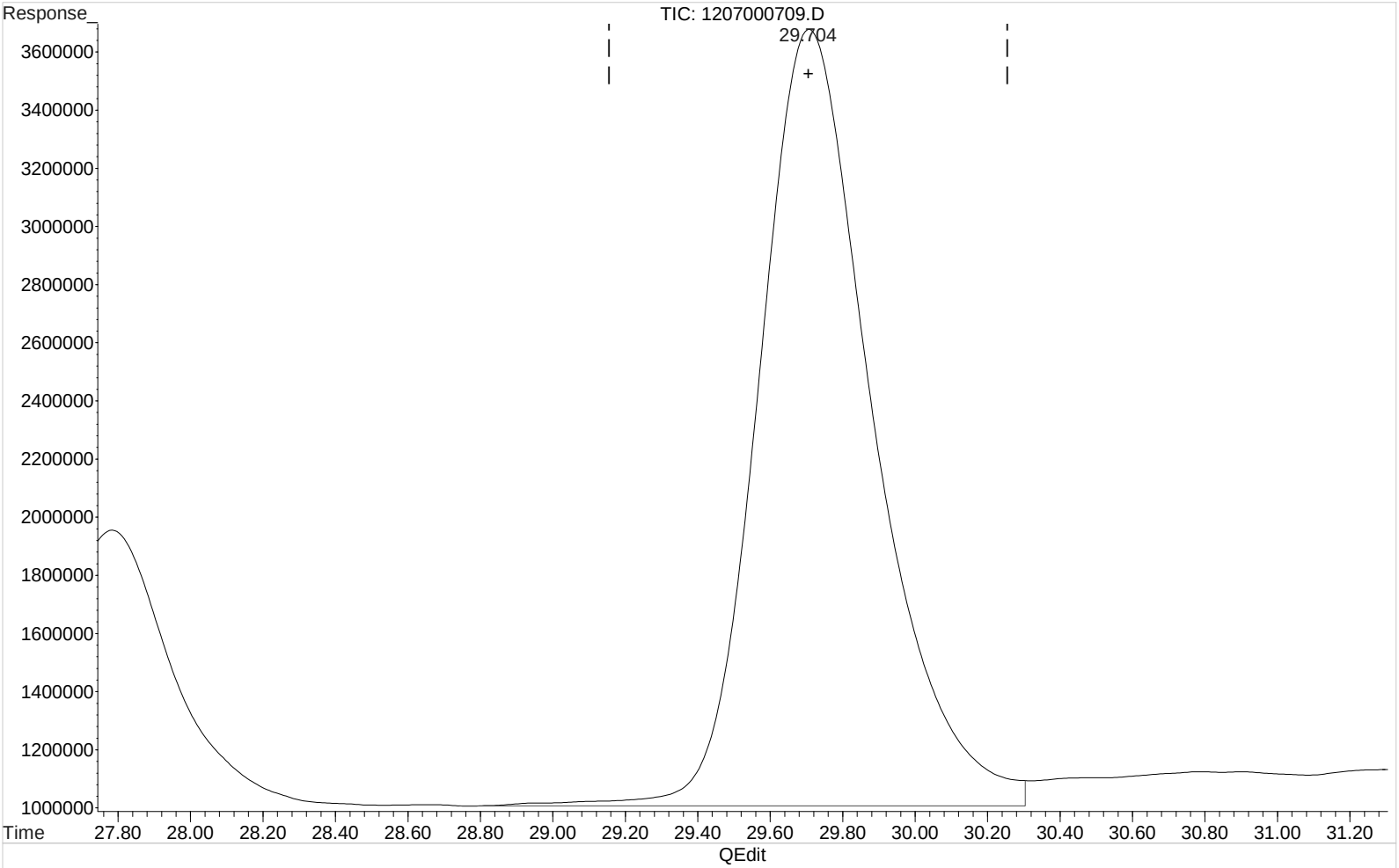
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:32:30 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.704min 995.581 ug/L

response 58729422

Manual Integration:

Before

12/08/16

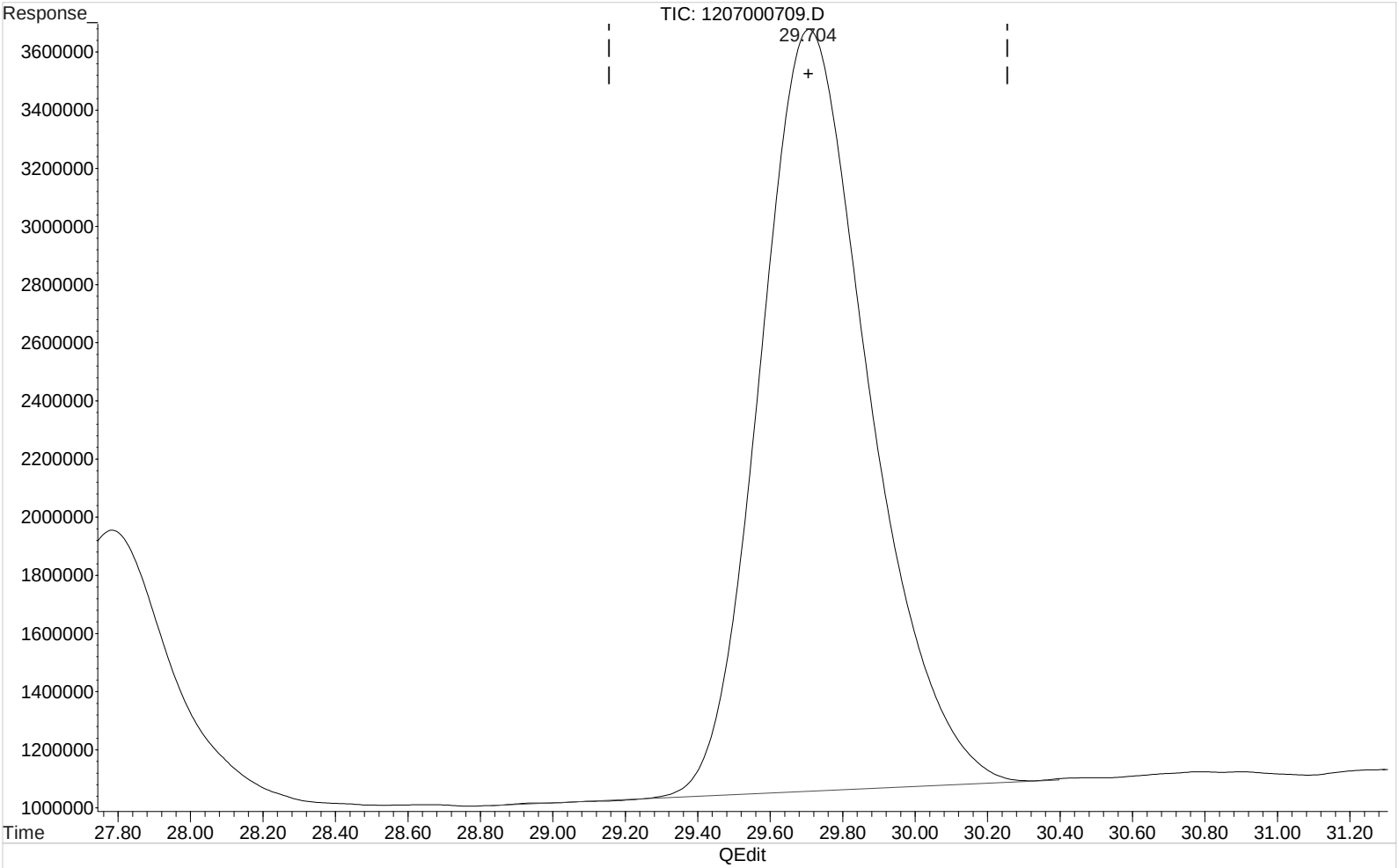
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000709.D Vial: 8
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:32:30 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:32:00 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

29.704min 932.538 ug/L m

response 55010487

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:49 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.700	112386573	1931.234	ug/L	m
Target Compounds						
1) T	Nitroglycerin	16.647	43206000	1971.406	ug/L	m
2) T	PETN	27.787	35607998	1816.855	ug/L	m

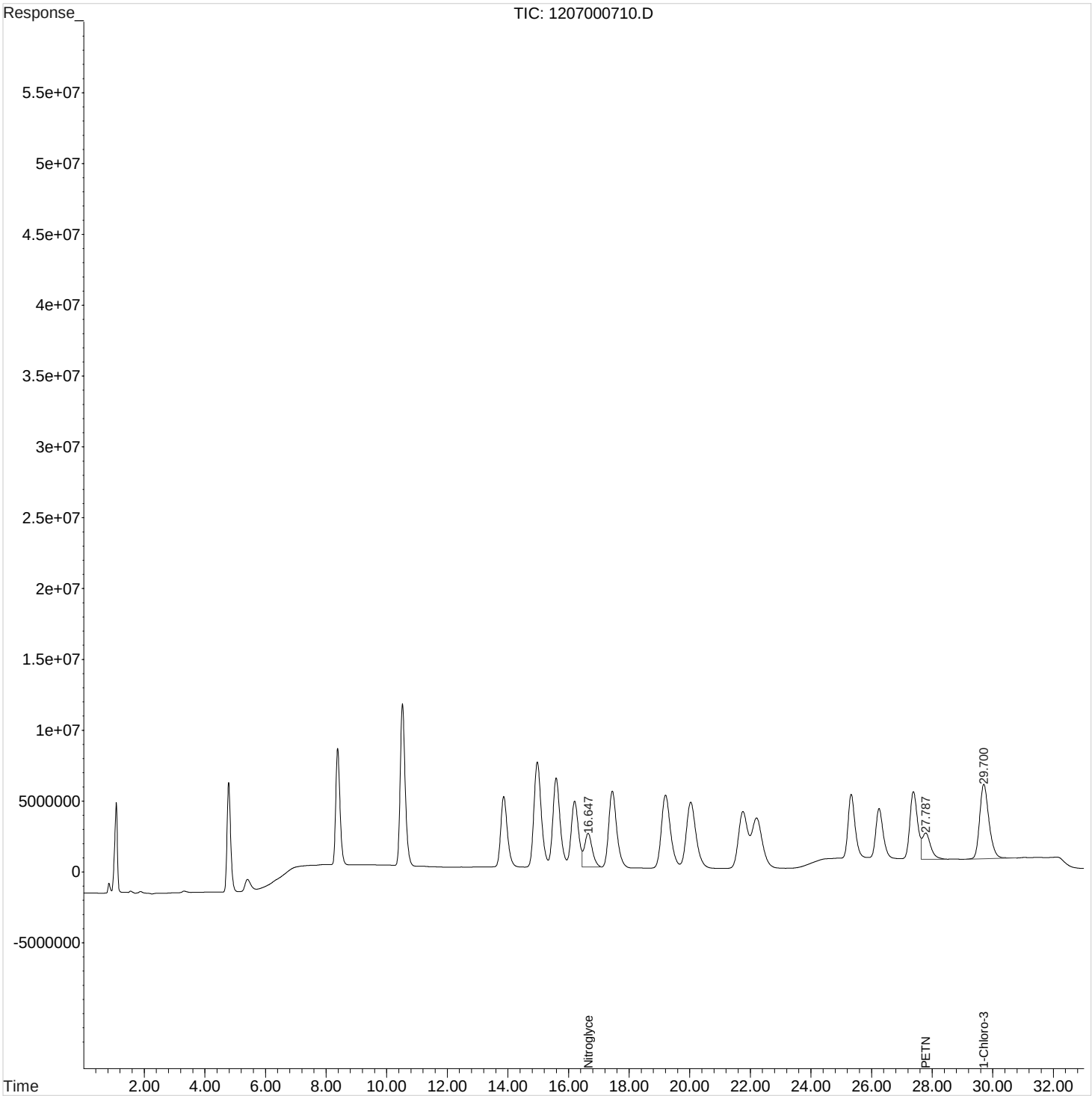
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:49 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

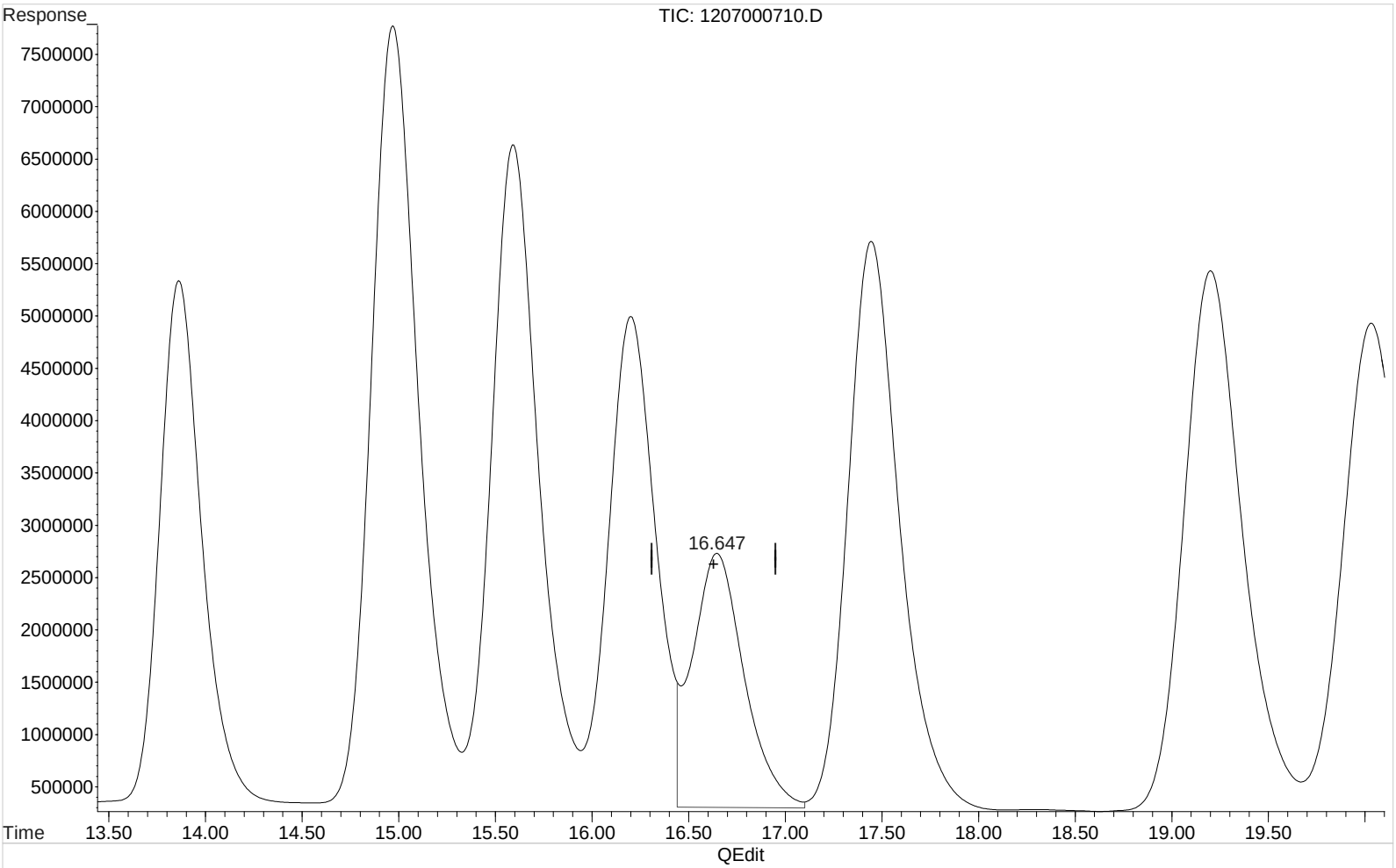


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:03 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.647min 2072.566 ug/L

response 45423047

Manual Integration:

Before

12/08/16

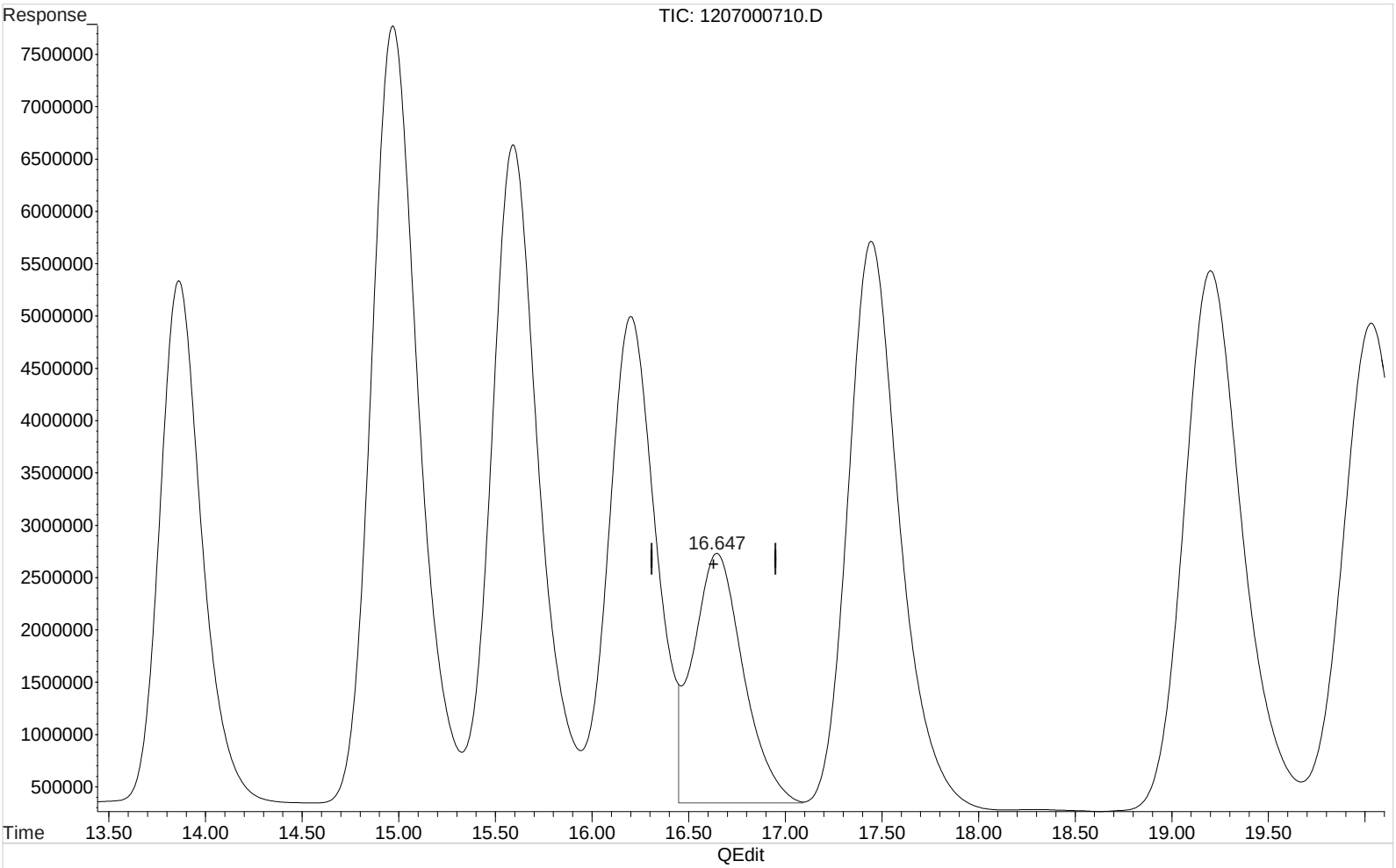
(+) = Expected Retention Time

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:03 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.647min 1971.406 ug/L m

response 43206000

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)

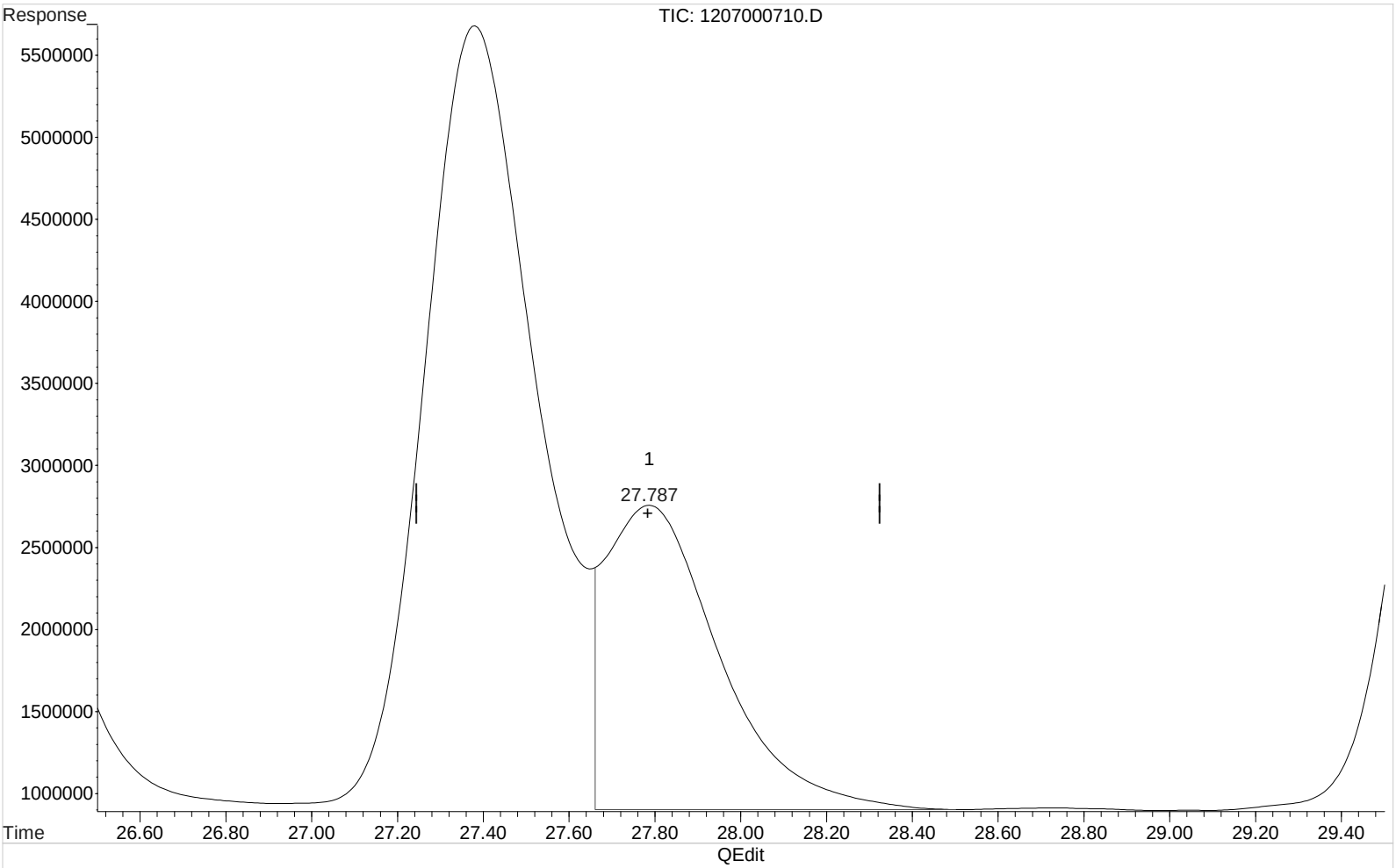
1 12/08/16

2 12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:03 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.787min 1727.074 ug/L

response 33848411

Manual Integration:

Before

12/08/16

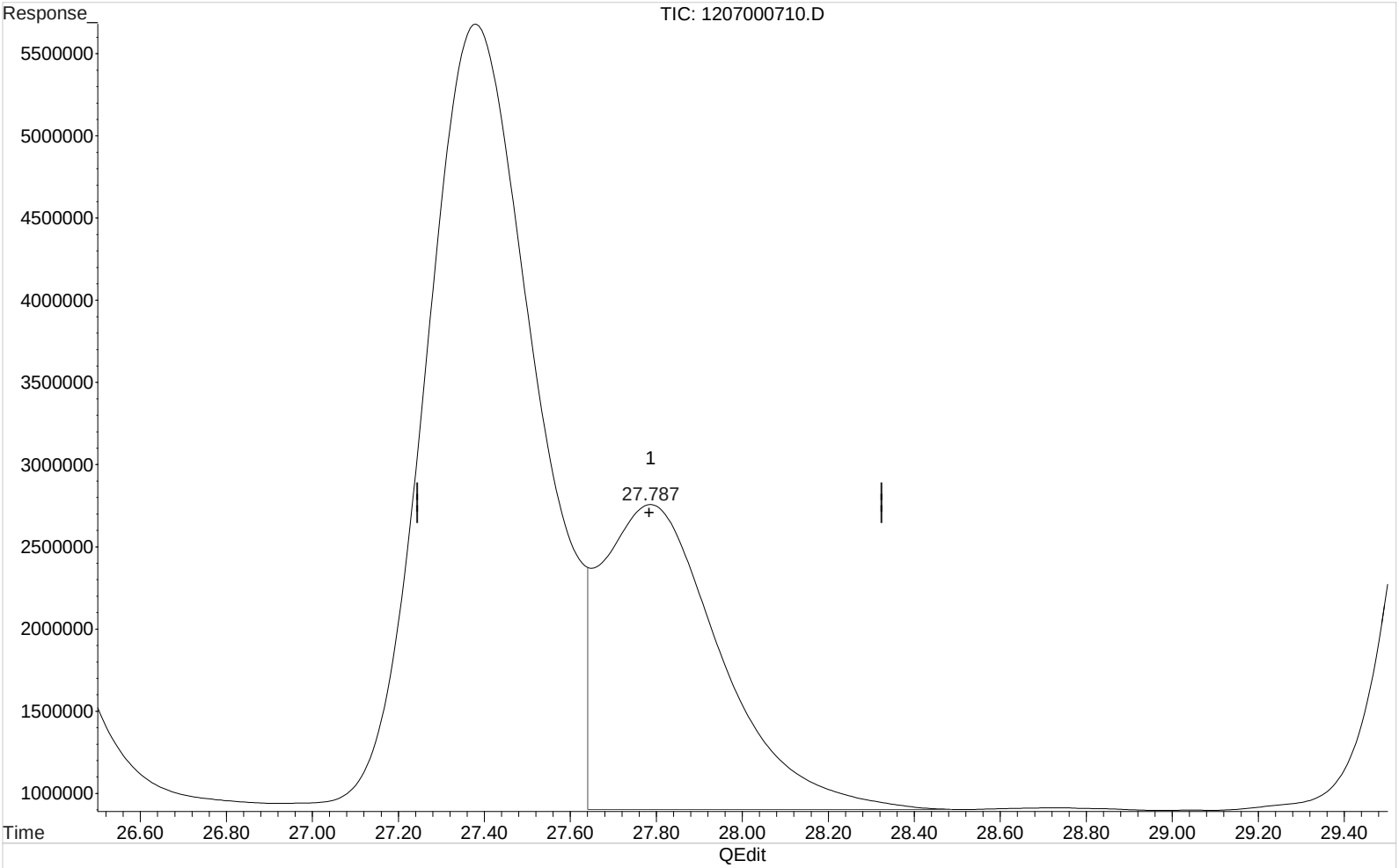
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:03 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.787min 1816.855 ug/L m

response 35607998

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)

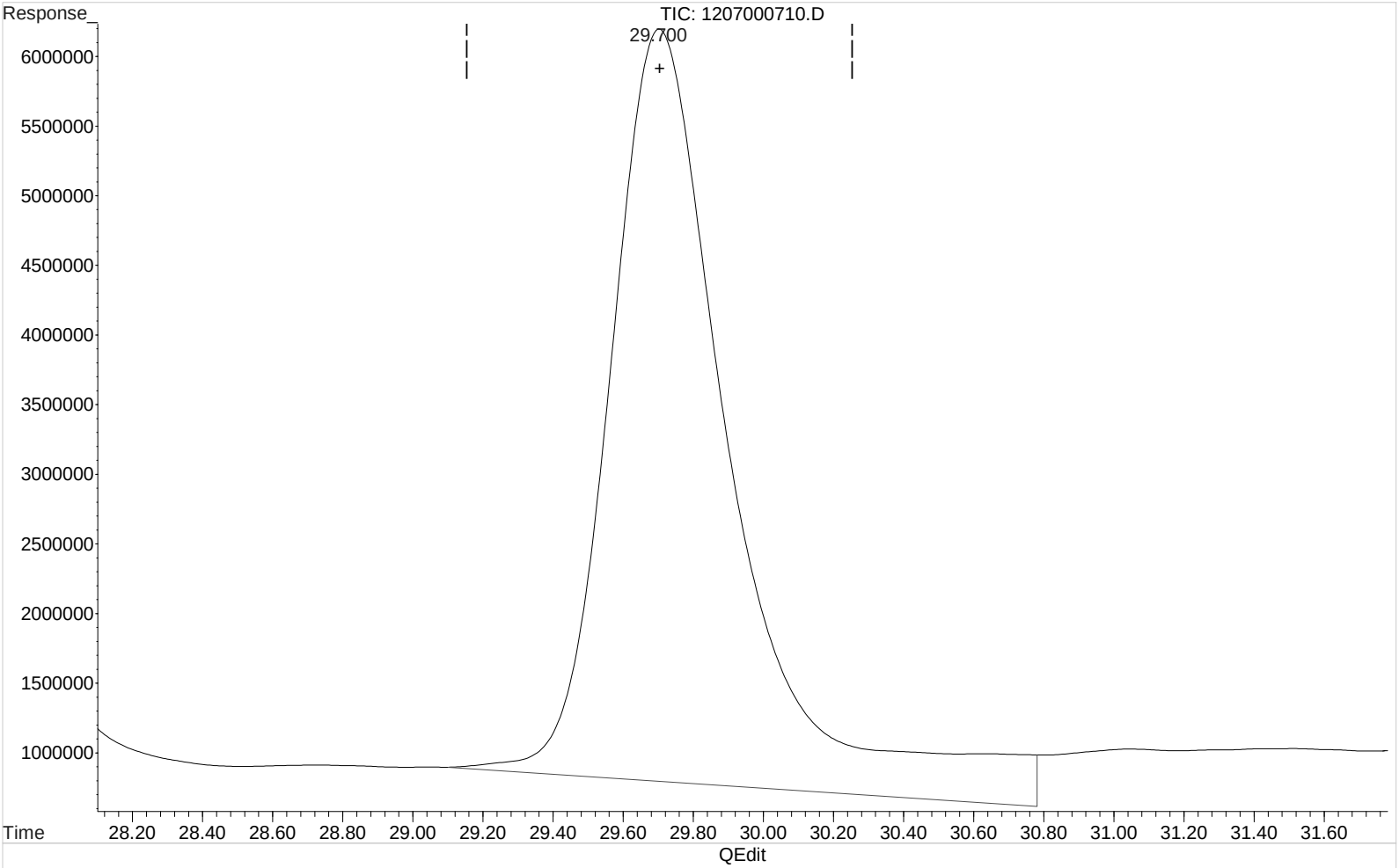
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:03 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.700min 2259.280 ug/L

response 131476903

Manual Integration:

Before

12/08/16

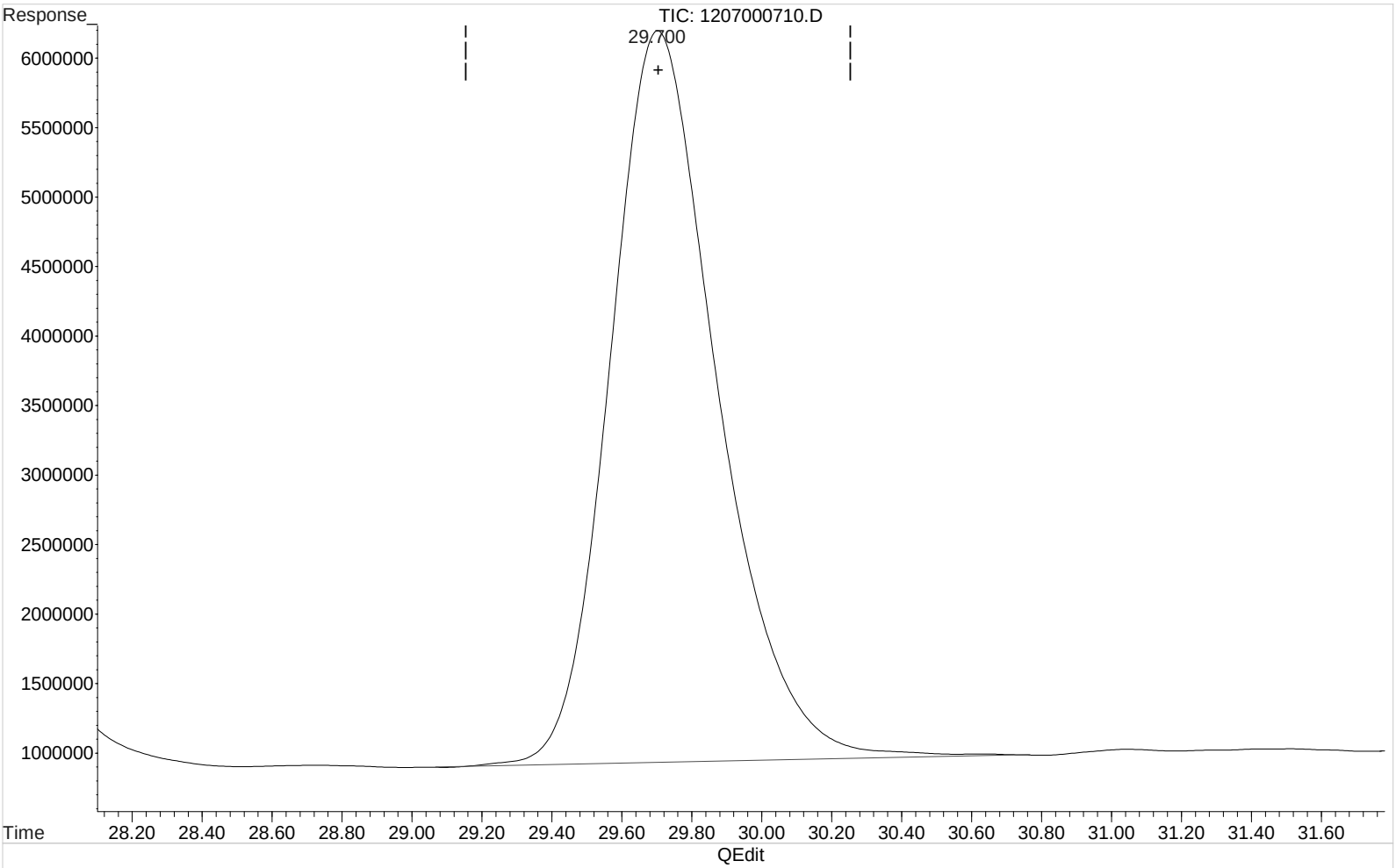
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000710.D Vial: 9
Signal(s) : DAD1B.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:34:03 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:33:47 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

29.700min 1931.234 ug/L m

response 112386573

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:08:50 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.688	288614109	4988.087	ug/L	m
Target Compounds						
1) T	Nitroglycerin	16.621	108352662	4955.731	ug/L	m
2) T	PETN	27.781	89947543	4660.595	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

(b) (6)

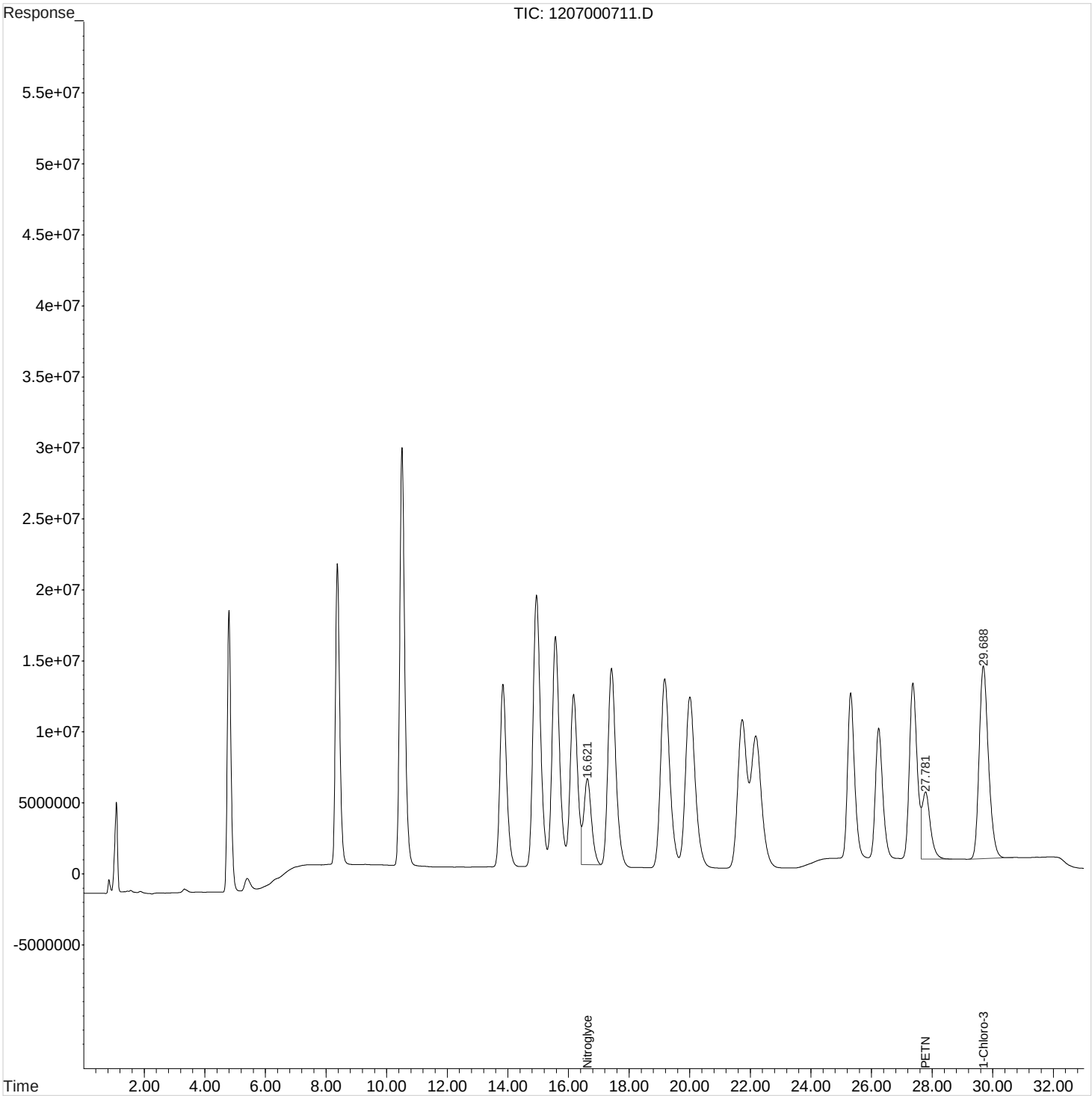
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:08:50 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(b) (6)

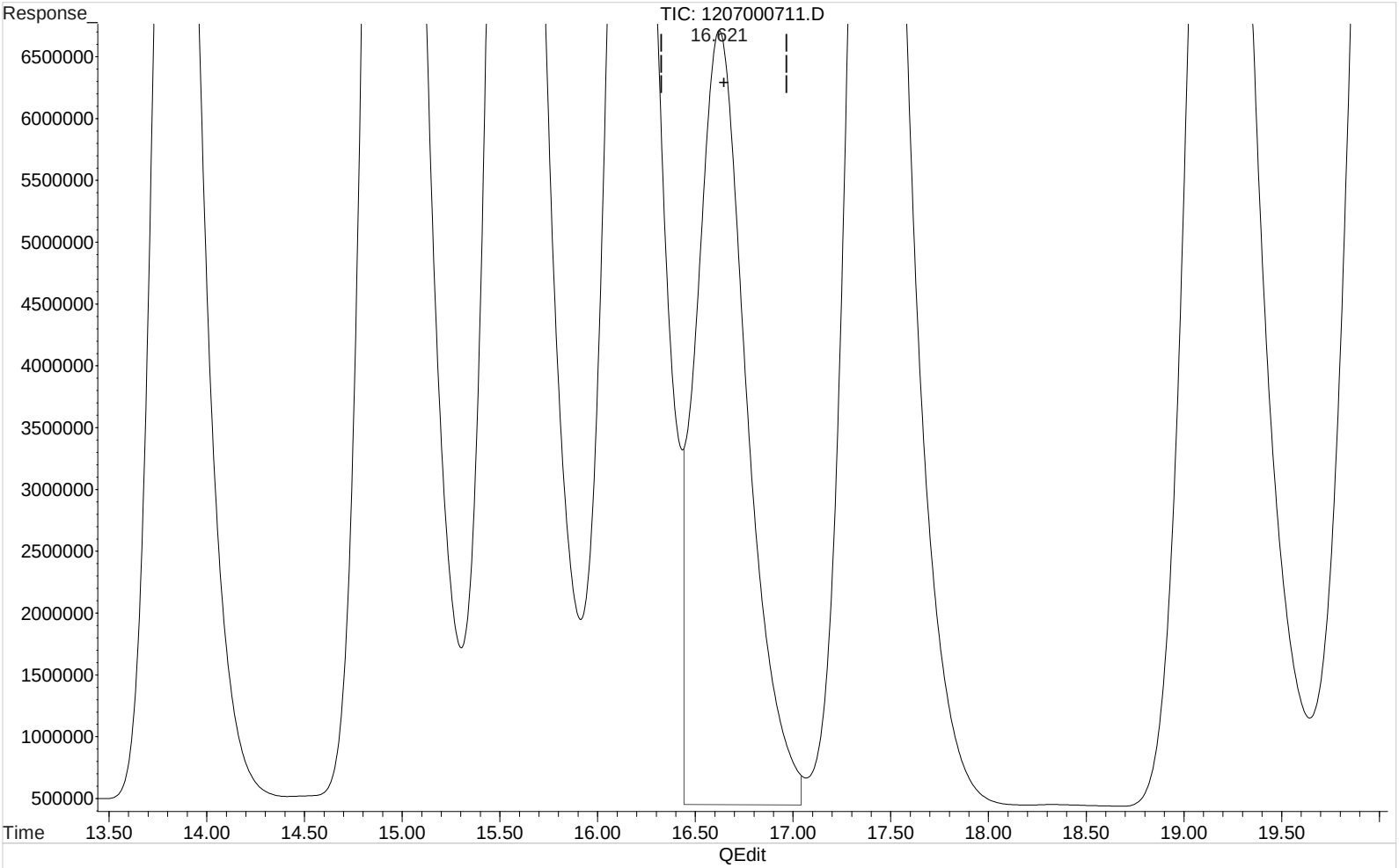
2/08/16

2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:35:15 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.621min 5145.490 ug/L

response 112501565

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

2/08/16

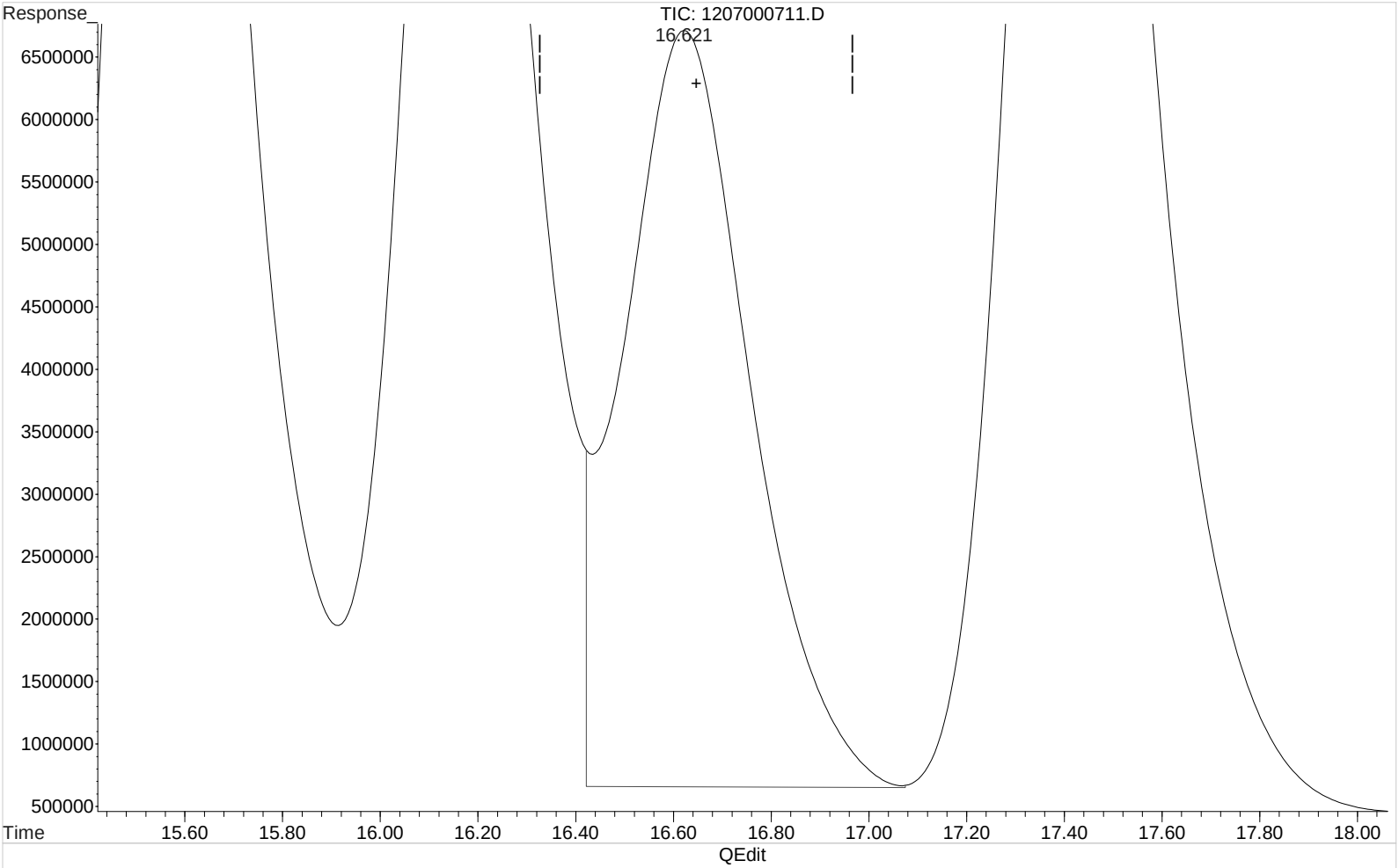
2/09/16

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:36:52 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.621min 4955.731 ug/L m

response 108352662

Manual Integration:

After

Baseline/Shoulder

12/08/16

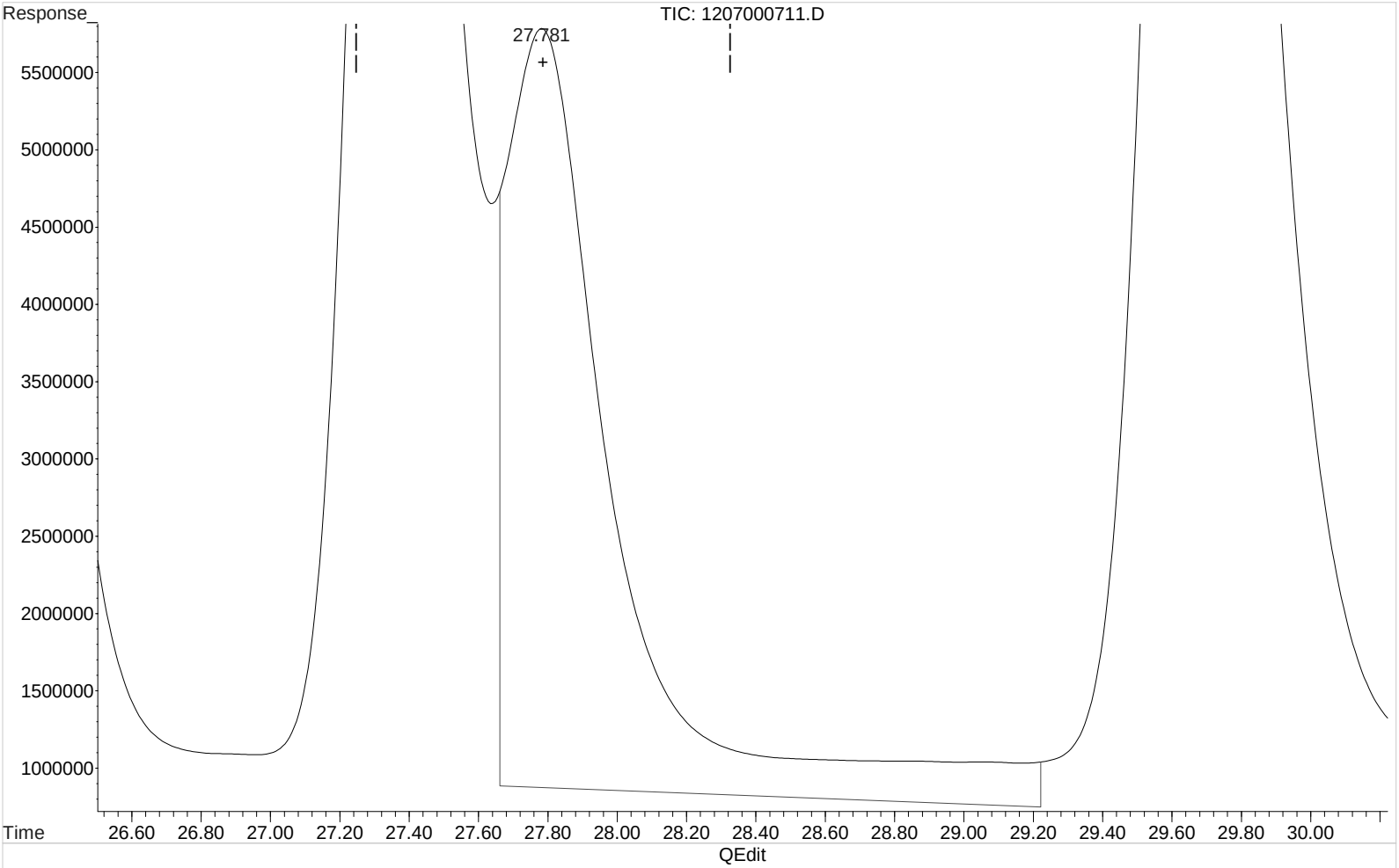
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:35:15 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.781min 5440.778 ug/L

response 105004749

Manual Integration:

Before

12/08/16

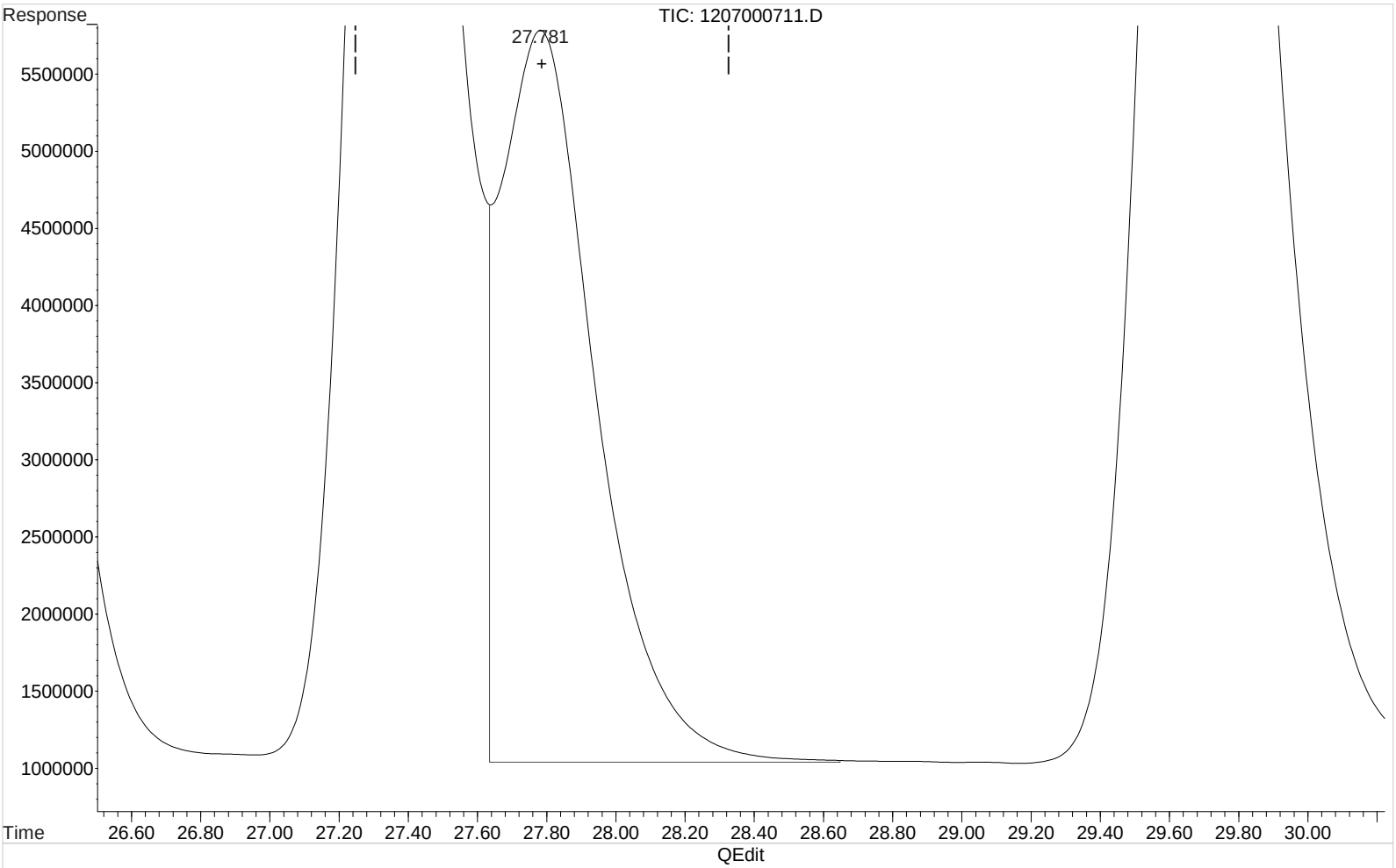
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:35:15 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.781min 4660.595 ug/L m

response 89947543

Manual Integration:

After

BLC

12/08/16

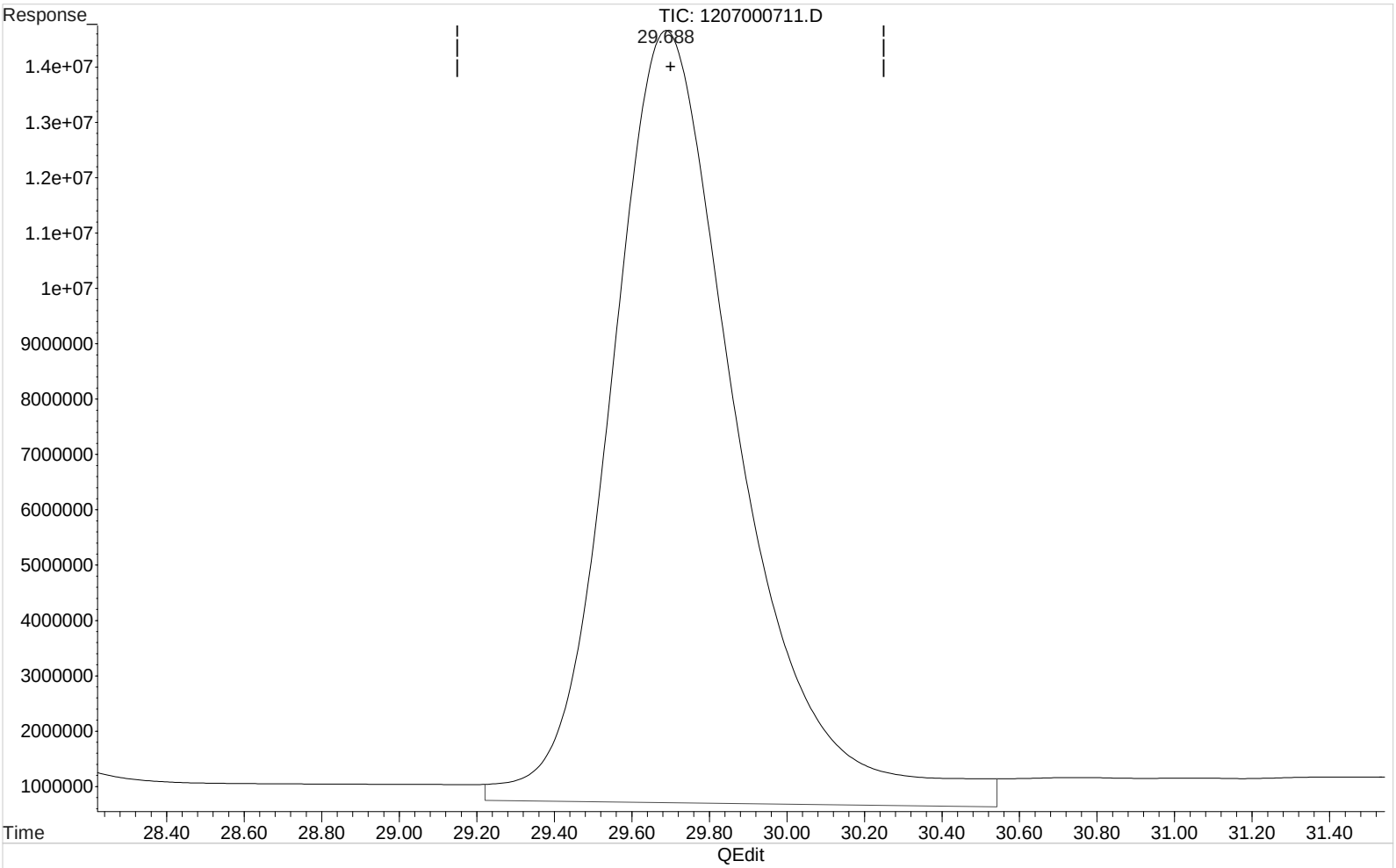
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:35:15 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(3) 1-Chloro-3-Nitrobenzene (S)

29.688min 5541.212 ug/L

response 320618313

Manual Integration:

Before

12/08/16

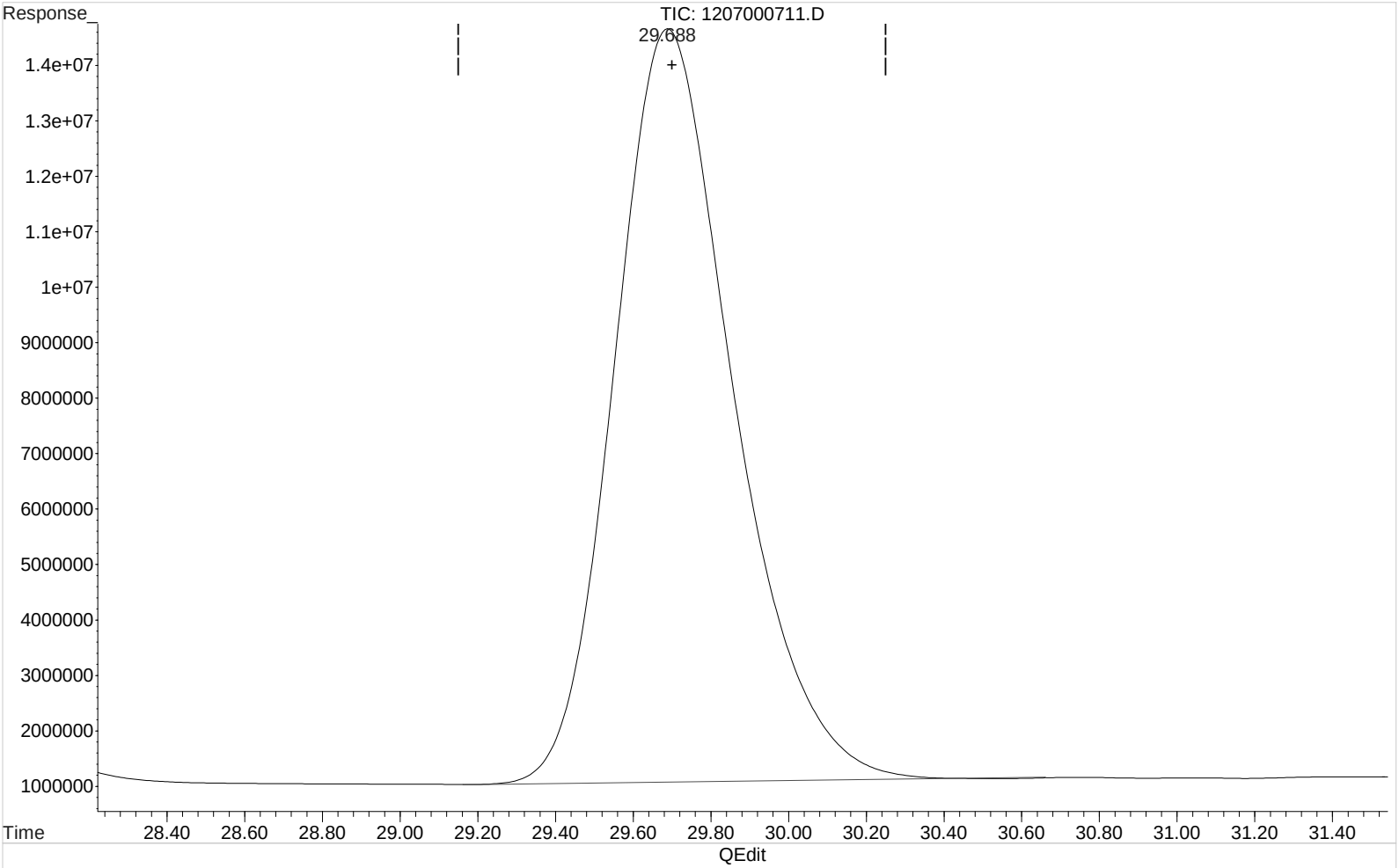
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000711.D Vial: 10
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:35:15 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:34:57 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(3) 1-Chloro-3-Nitrobenzene (S)

29.688min 4988.087 ug/L m

response 288614109

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000712.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:09:08 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:37:03 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.704	495774702	8571.338	ug/L	
Target Compounds						
1) T	Nitroglycerin	16.638	204600197	9302.543	ug/L	m
2) T	PETN	27.791	173278128	9066.254	ug/L	m

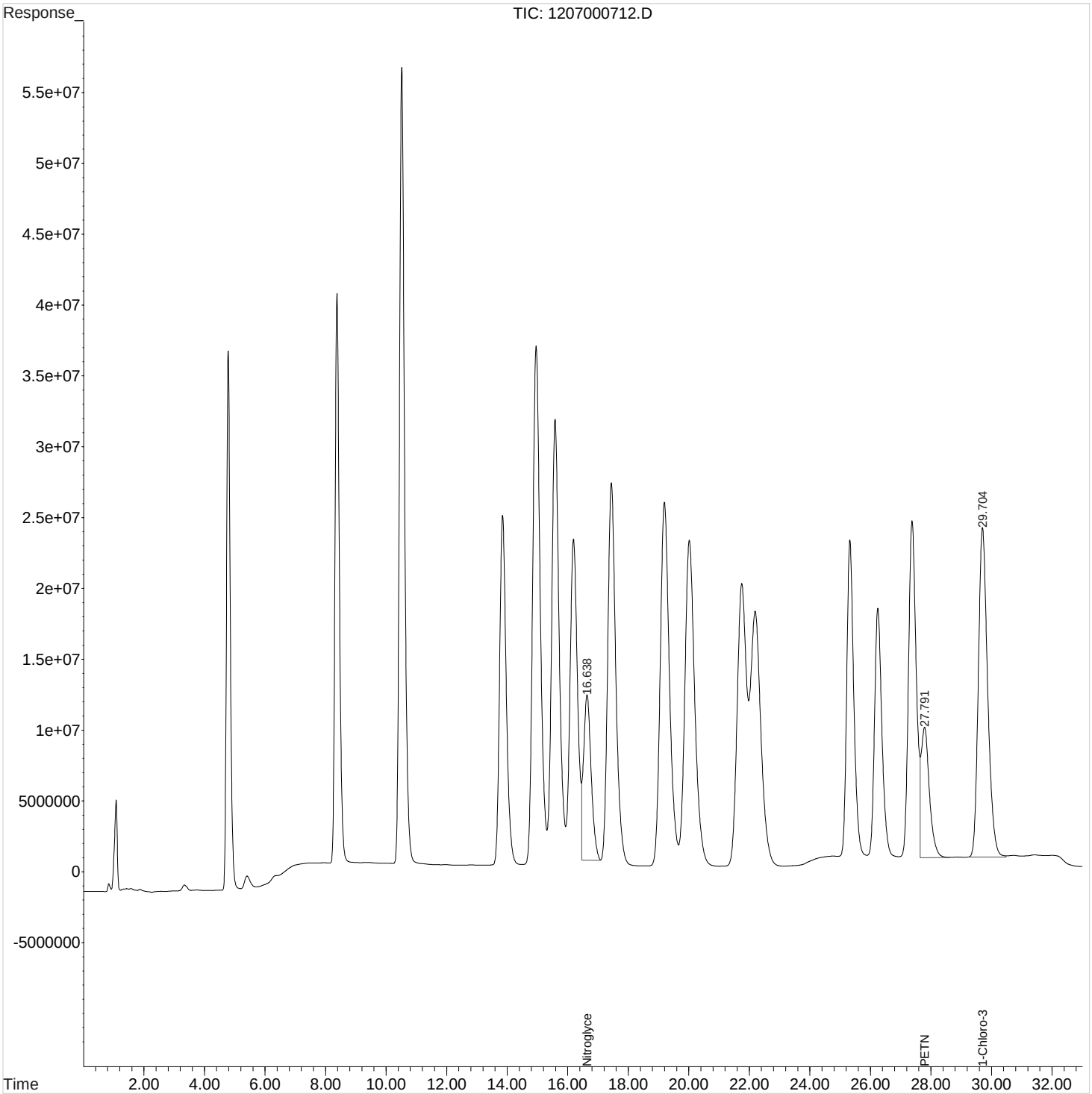
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000712.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:09:08 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:37:03 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(b) (6)

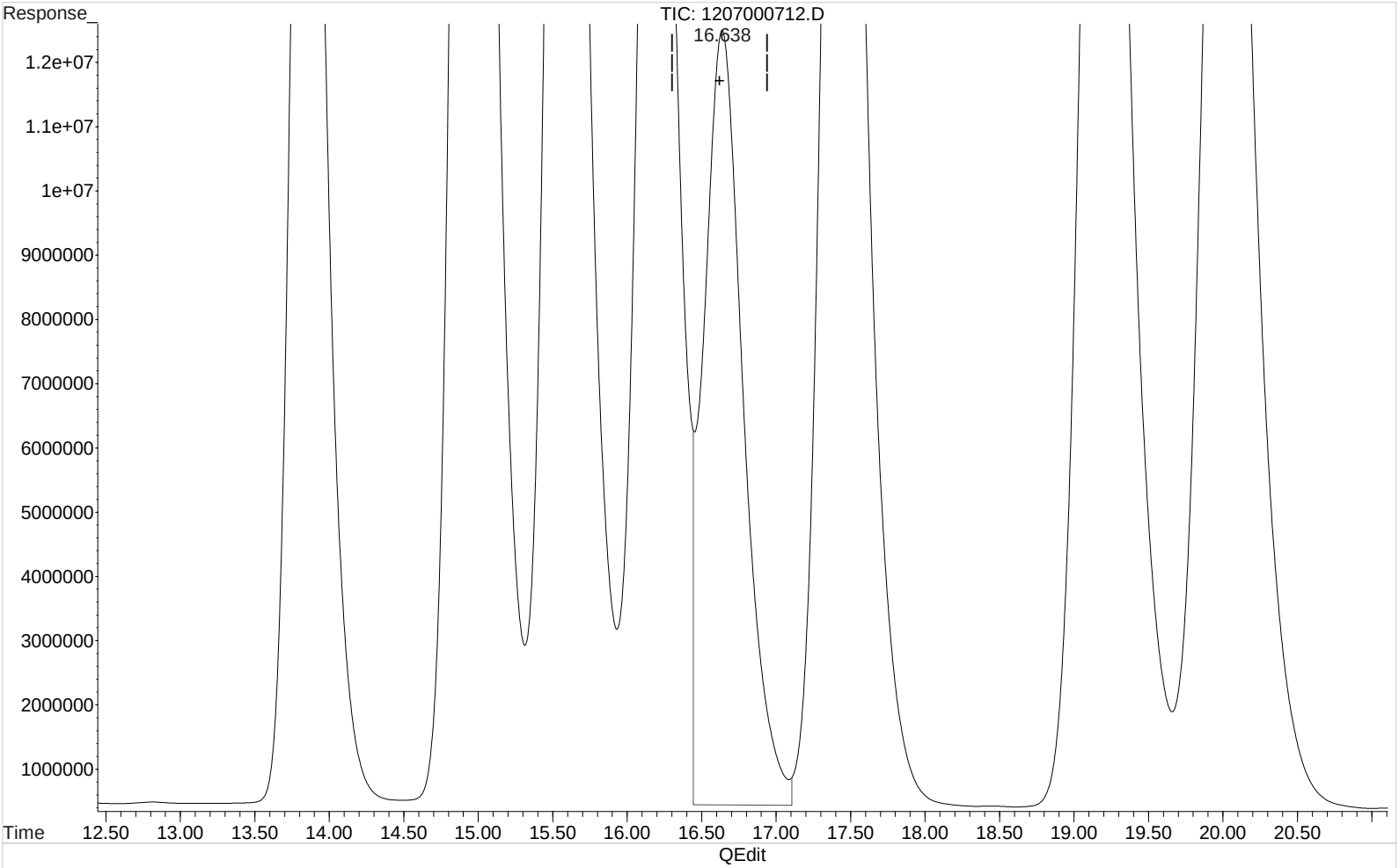
2/08/16

2/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000712.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:37:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:37:03 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.638min 10174.148 ug/L

response 223770282

Manual Integration:

Before

12/08/16

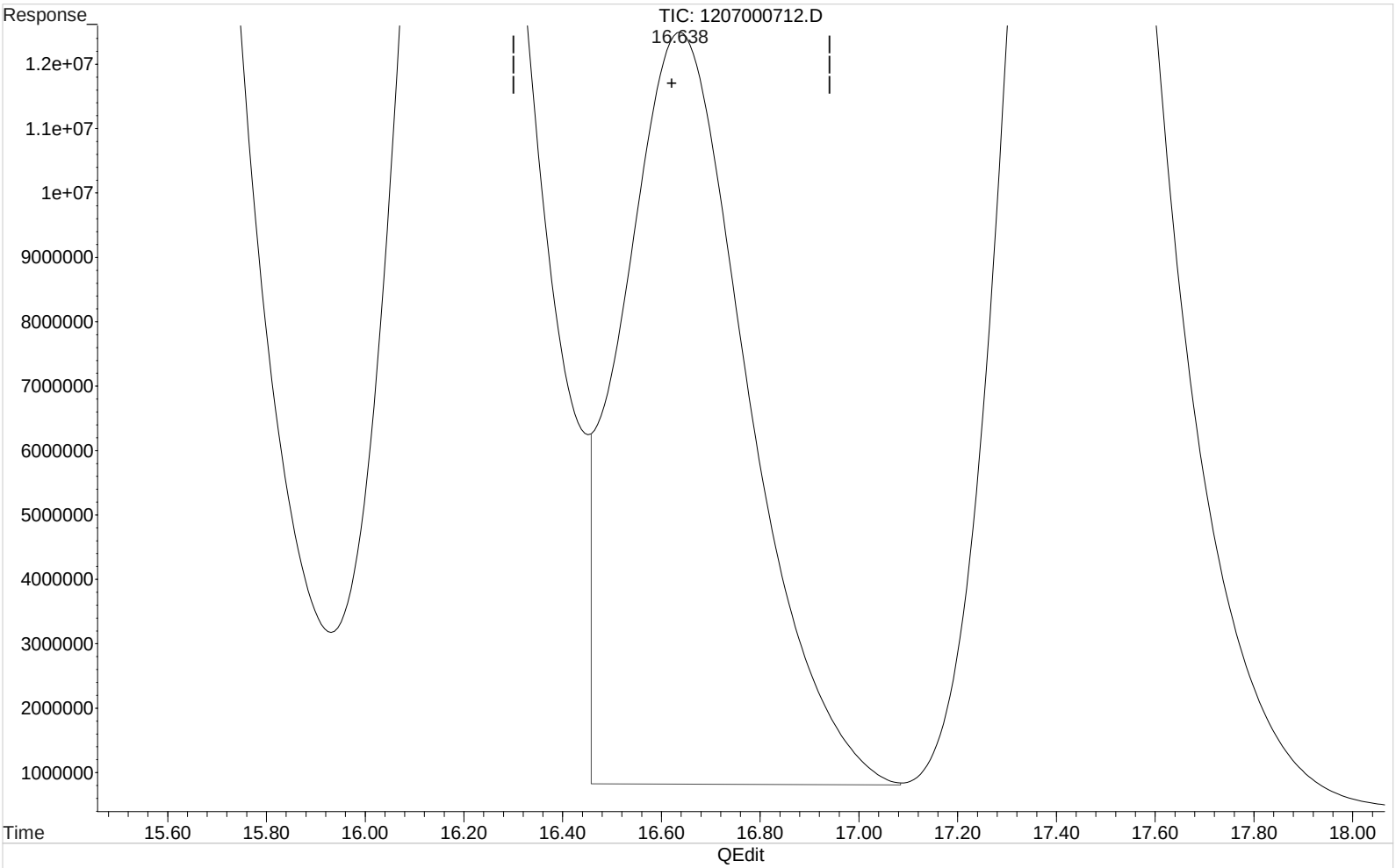
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000712.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:38:00 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:37:03 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.638min 9302.543 ug/L m

response 204600197

Manual Integration:

After

Baseline/Shoulder

12/08/16

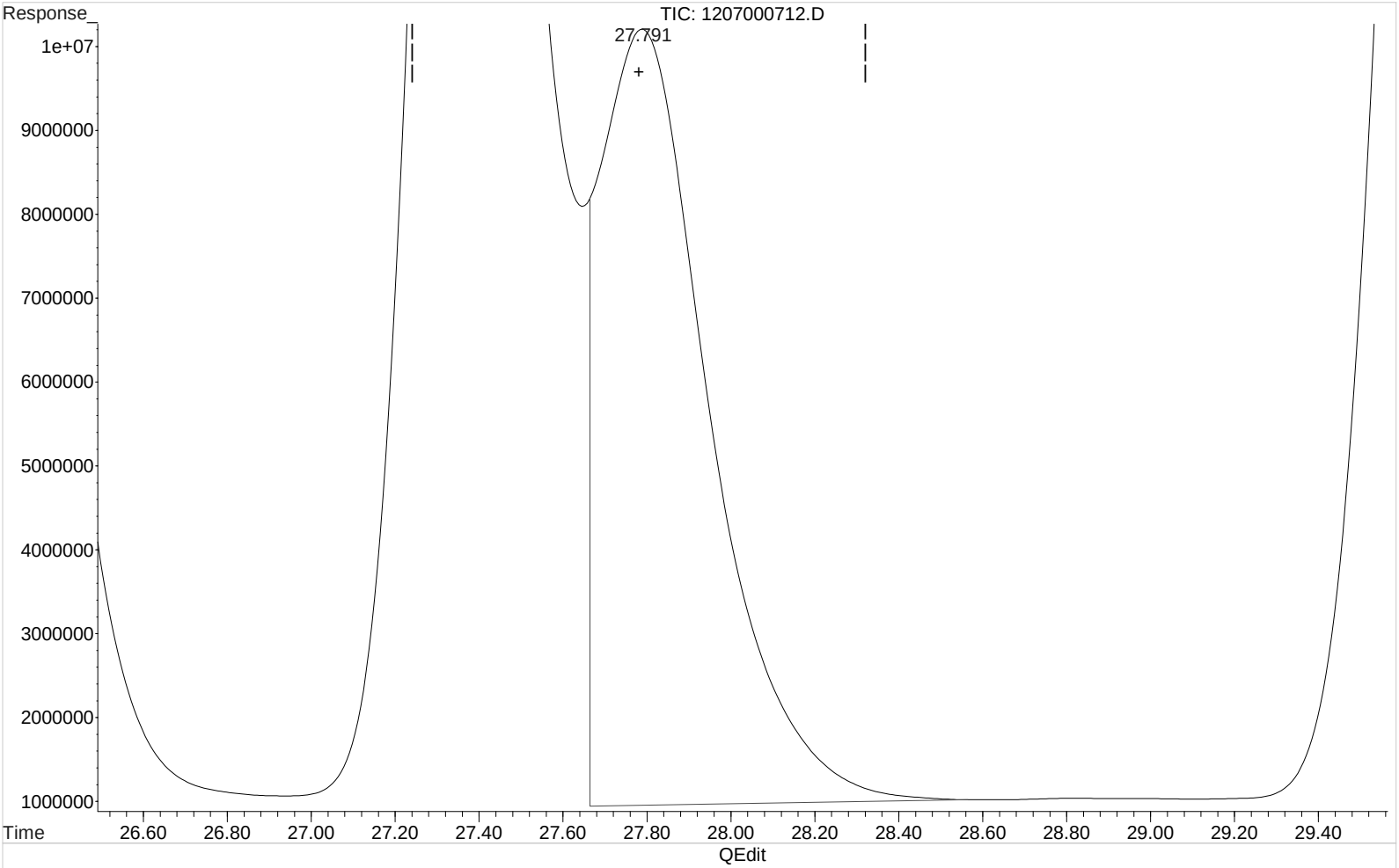
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000712.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:37:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:37:03 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.791min 8680.900 ug/L

response 165913087

Manual Integration:

Before

12/08/16

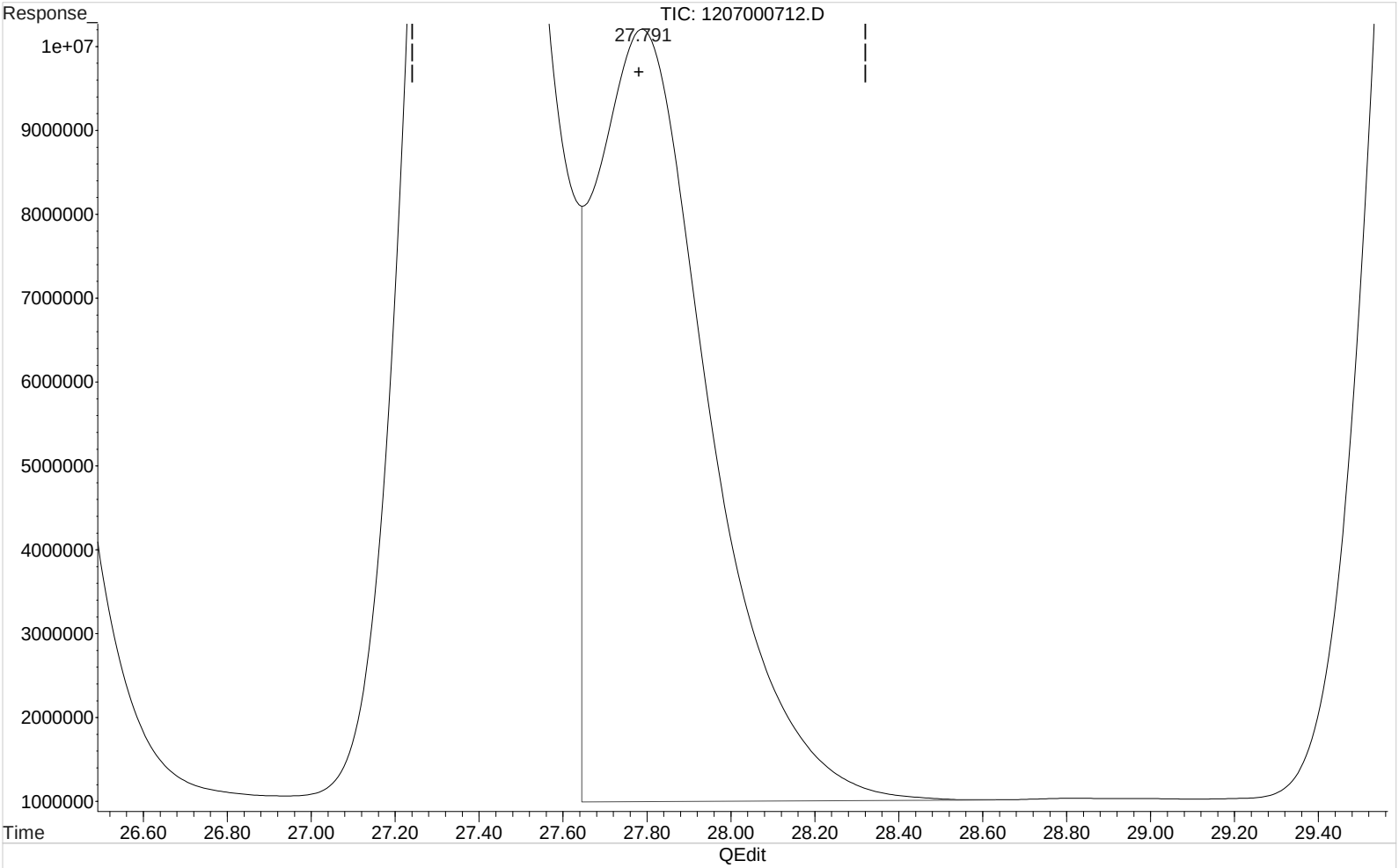
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000712.D Vial: 11
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:37:23 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:37:03 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.791min 9066.254 ug/L m

response 173278128

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000713.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:09:26 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:38:20 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
3) S	1-Chloro-3-Nitrobenzene	29.704	1145844586	20170.461 ug/L
Target Compounds				
1) T	Nitroglycerin	16.624	424970178	19359.201 ug/L m
2) T	PETN	27.797	360374404	19078.177 ug/L m

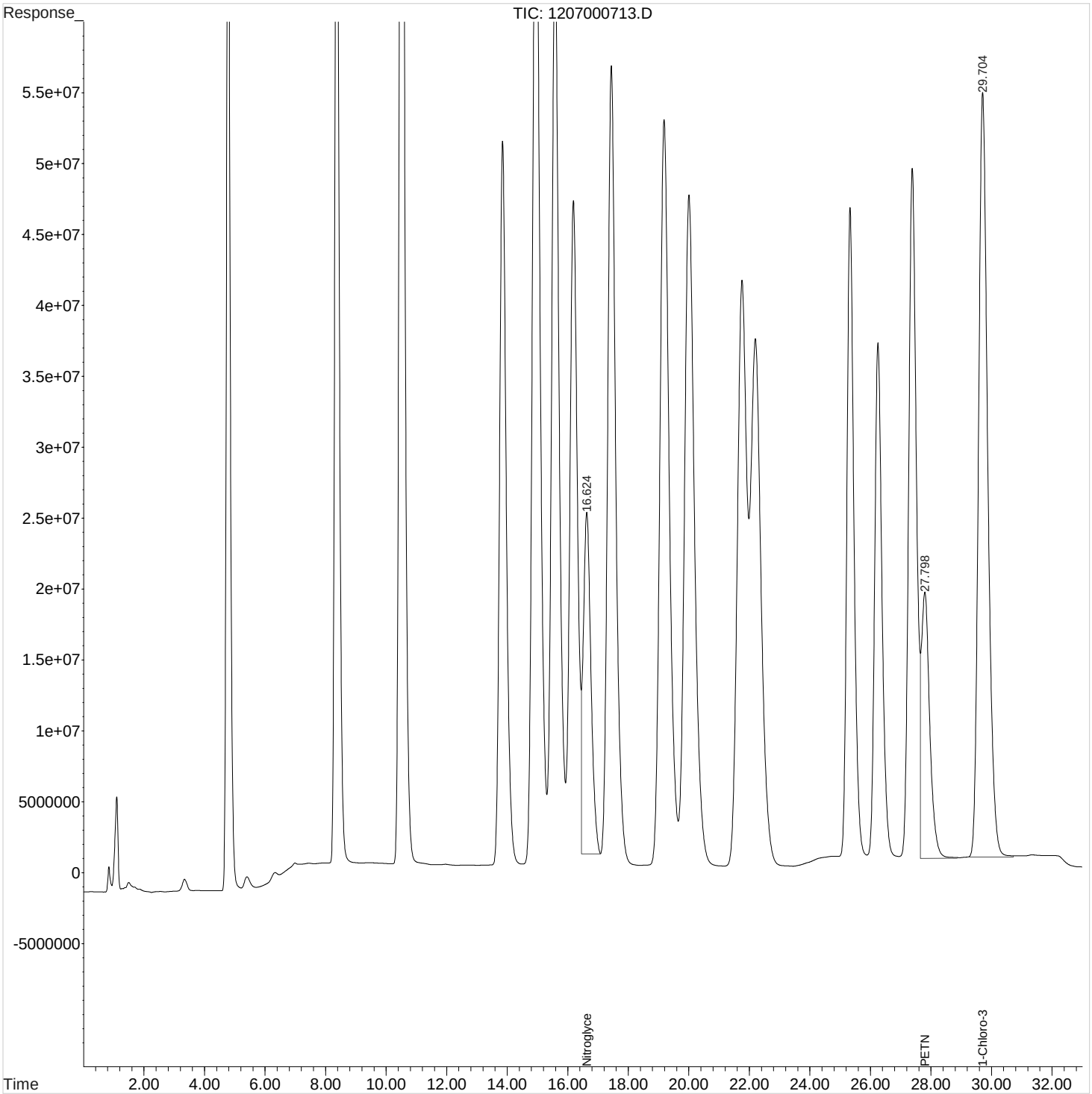
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000713.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:09:26 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:38:20 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

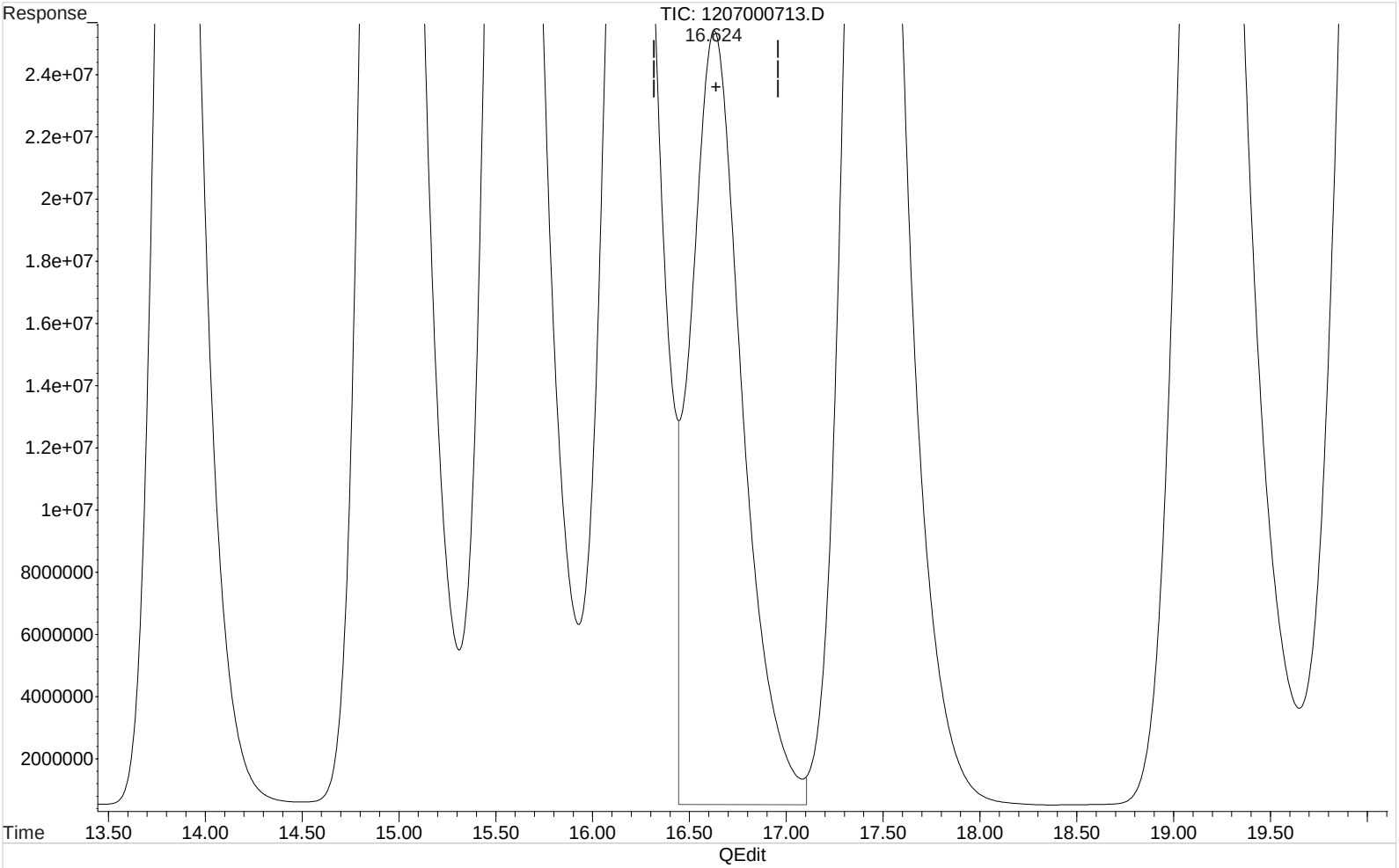


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000713.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:38:32 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:38:20 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(1) Nitroglycerin (T)

16.624min 21000.929 ug/L

response 461009128

Manual Integration:

Before

12/08/16

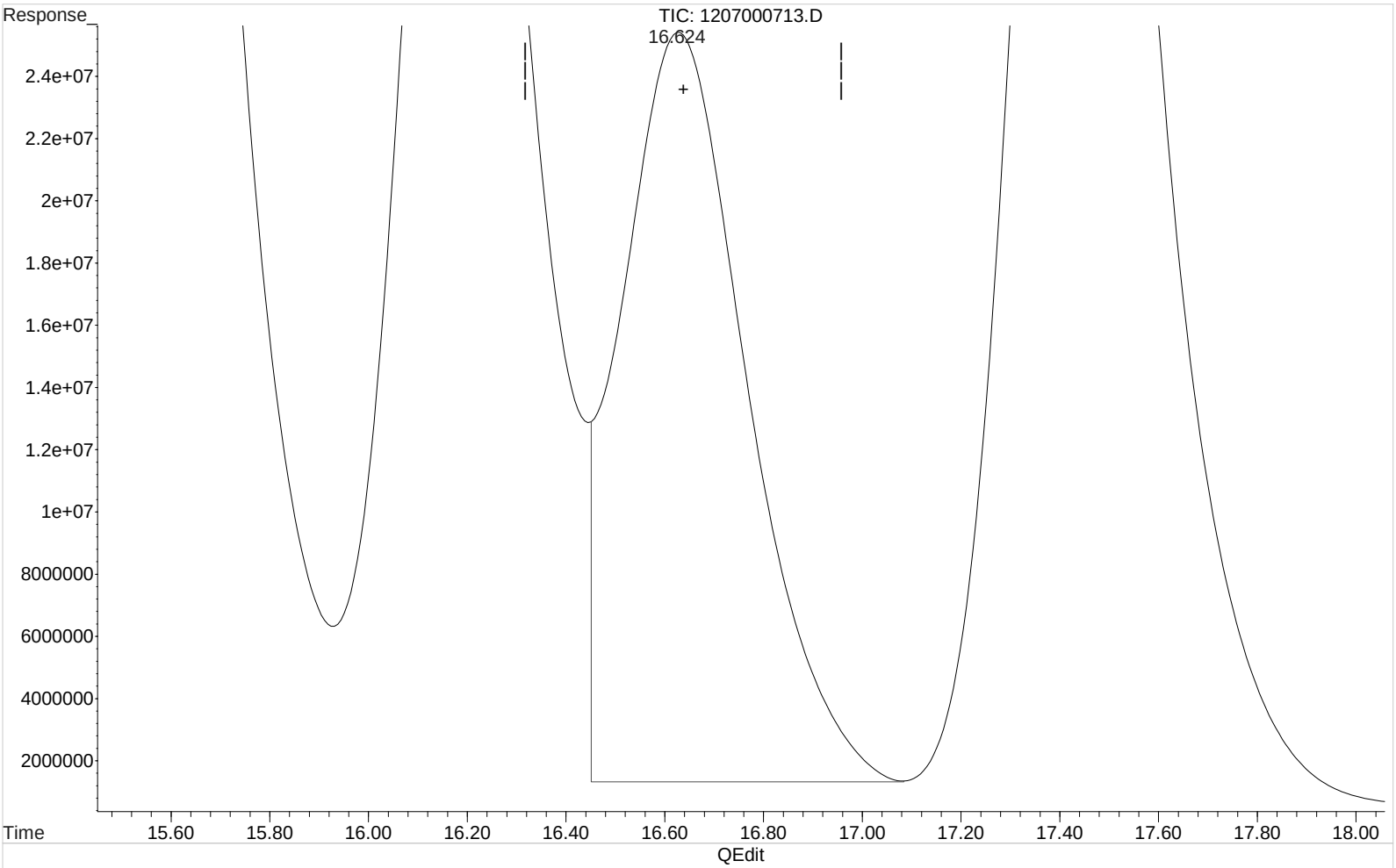
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000713.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:39:06 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:38:20 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.624min 19359.201 ug/L m

response 424970178

Manual Integration:

After

Baseline/Shoulder

12/08/16

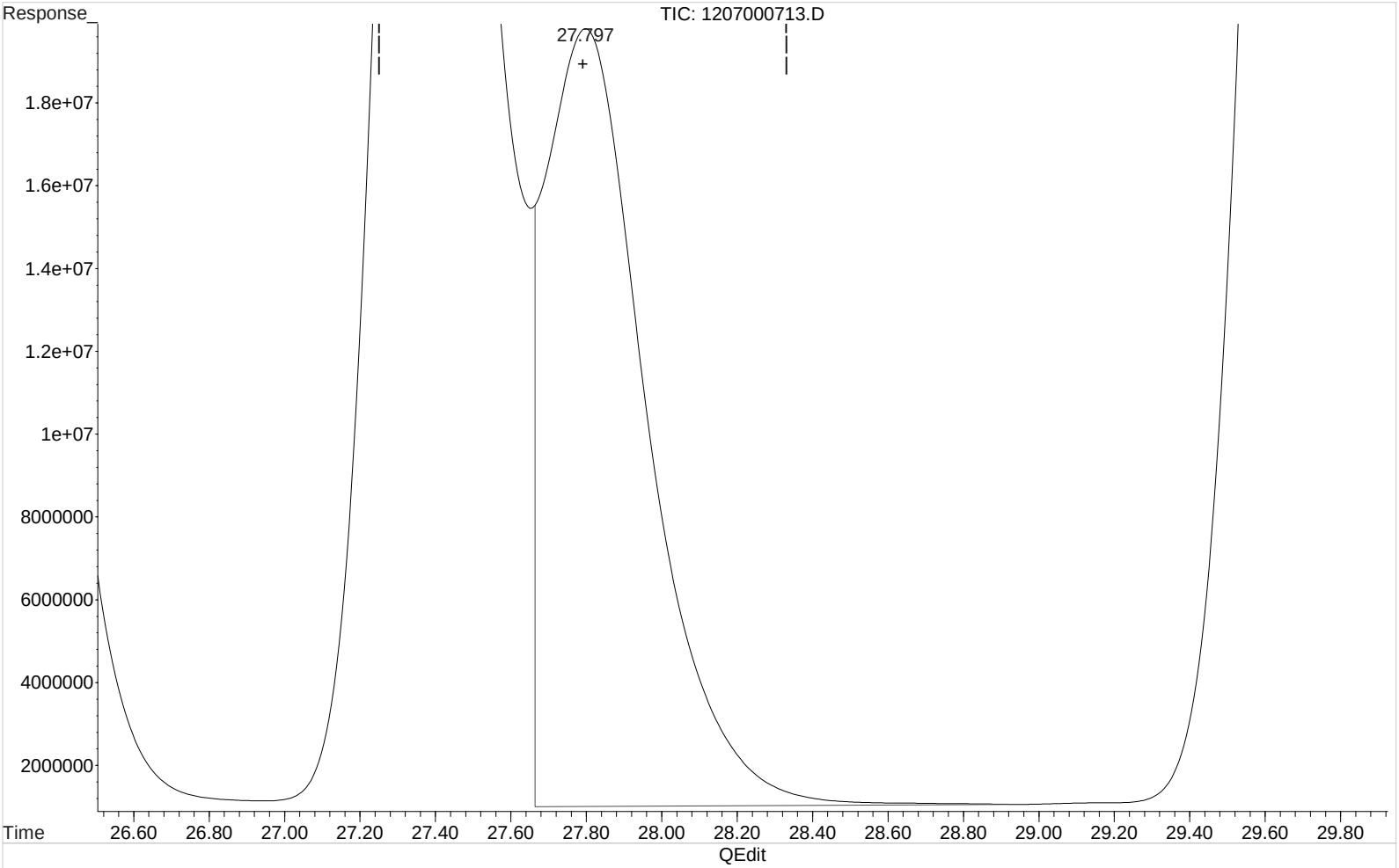
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000713.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:38:32 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:38:20 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.797min 18418.928 ug/L

response 347921609

Manual Integration:

Before

12/08/16

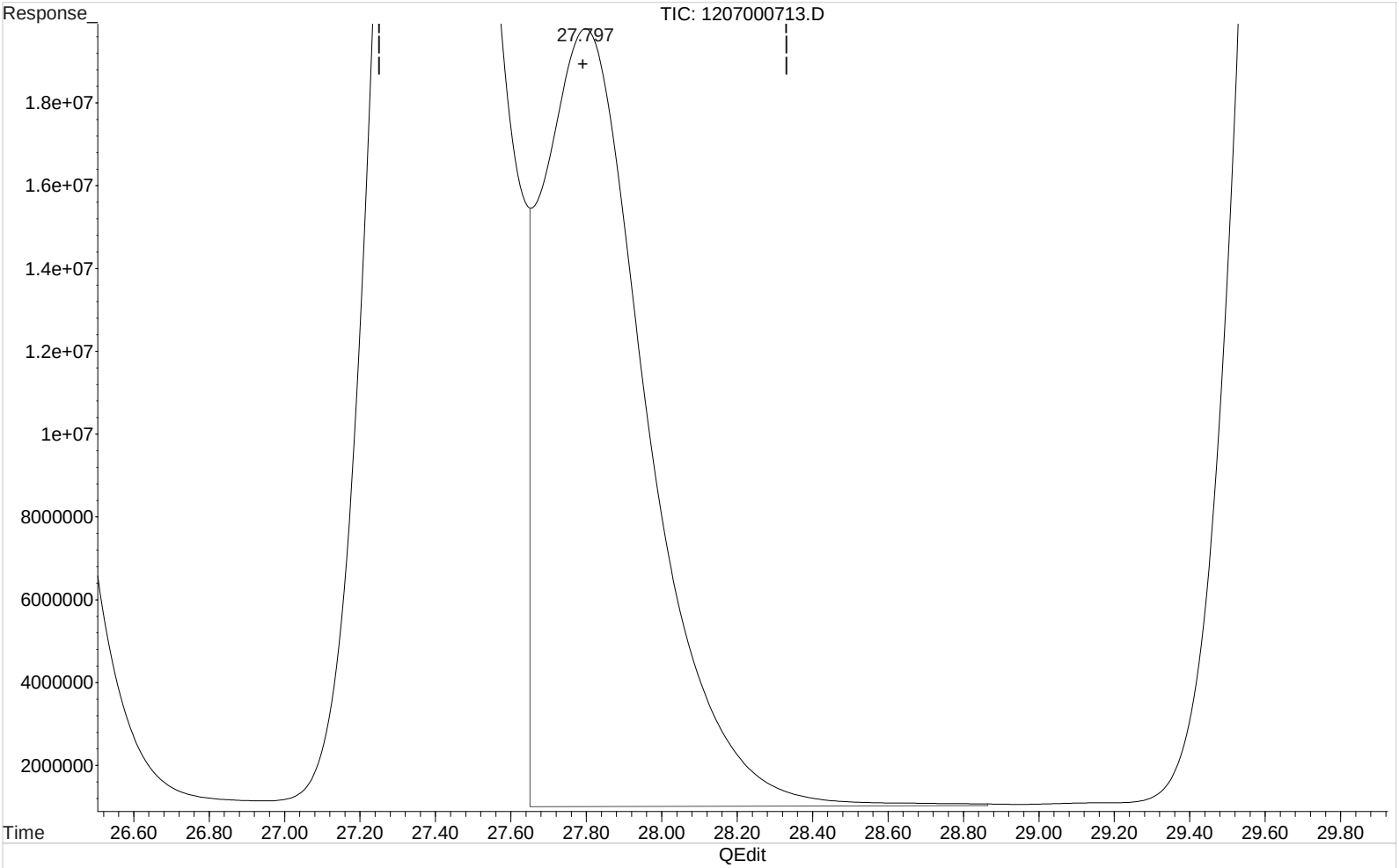
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000713.D Vial: 12
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 10:38:32 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 10:38:20 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.797min 19078.177 ug/L m

response 360374404

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-210\1207000715.D Vial: 13
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:31:00 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:30:11 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
3) S	1-Chloro-3-Nitrobenzene	29.691	470830412	8280.252	ug/L	
Target Compounds						
1) T	Nitroglycerin	16.637	193613600	9287.498	ug/L	m
2) T	PETN	27.778	158765185	9023.071	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

[redacted] (b) (6)

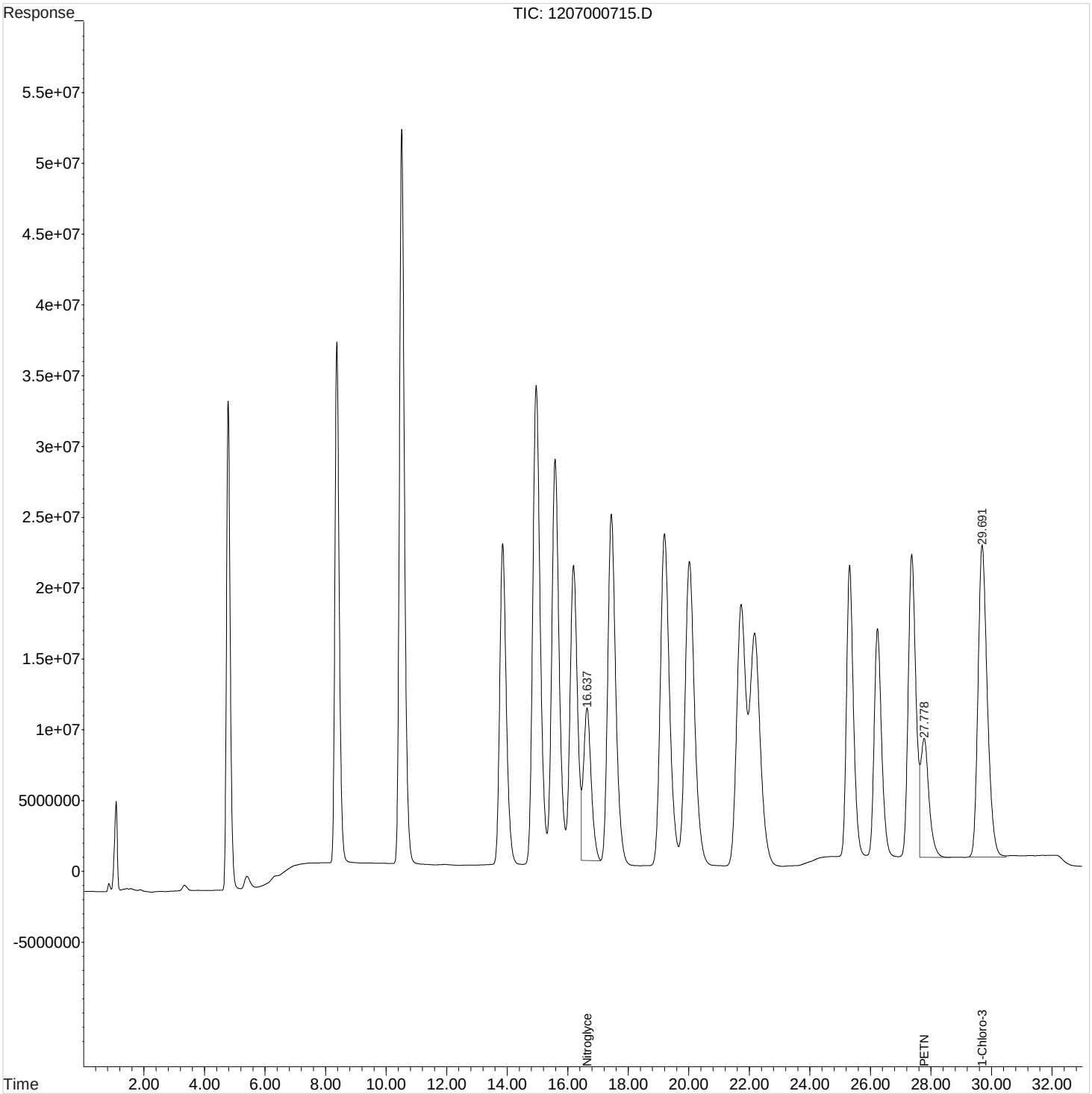
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-210\1207000715.D Vial: 13
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:31:00 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:30:11 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm

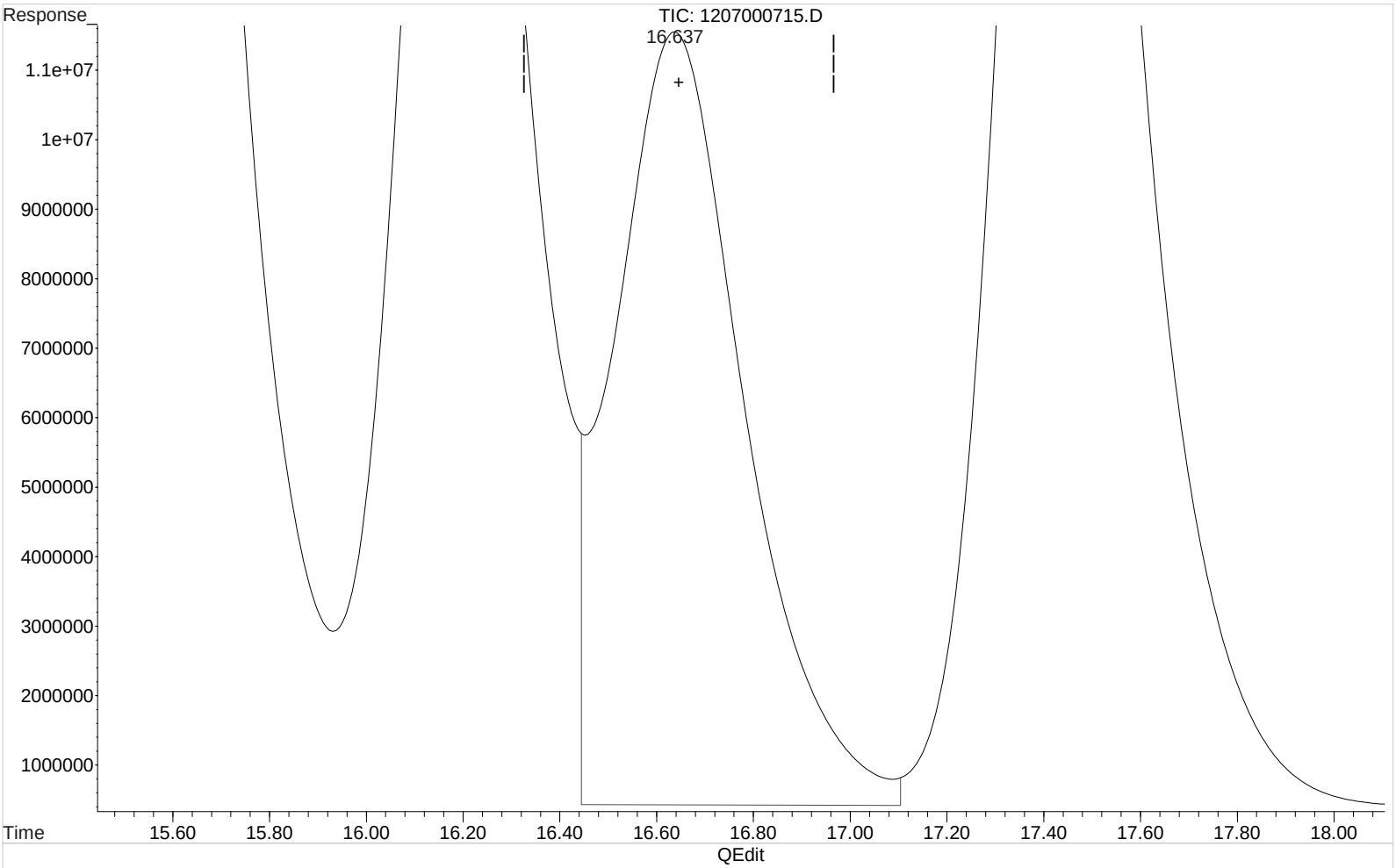


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000715.D Vial: 13
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:30:40 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:30:11 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.637min 9917.726 ug/L

response 206751766

Manual Integration:

Before

12/08/16

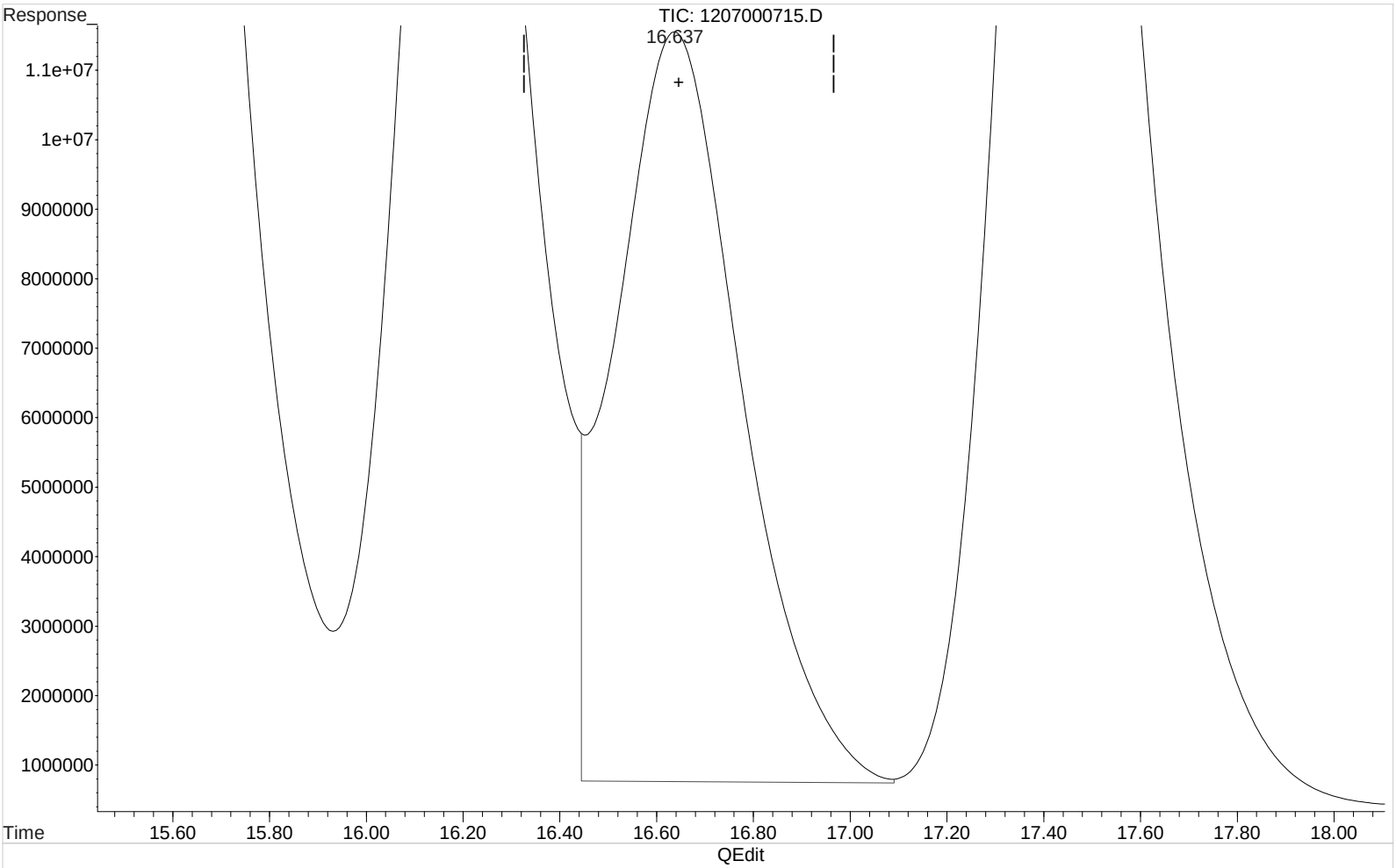
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000715.D Vial: 13
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:30:40 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:30:11 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(1) Nitroglycerin (T)

16.637min 9287.498 ug/L m

response 193613600

Manual Integration:

After

Baseline/Shoulder

12/08/16

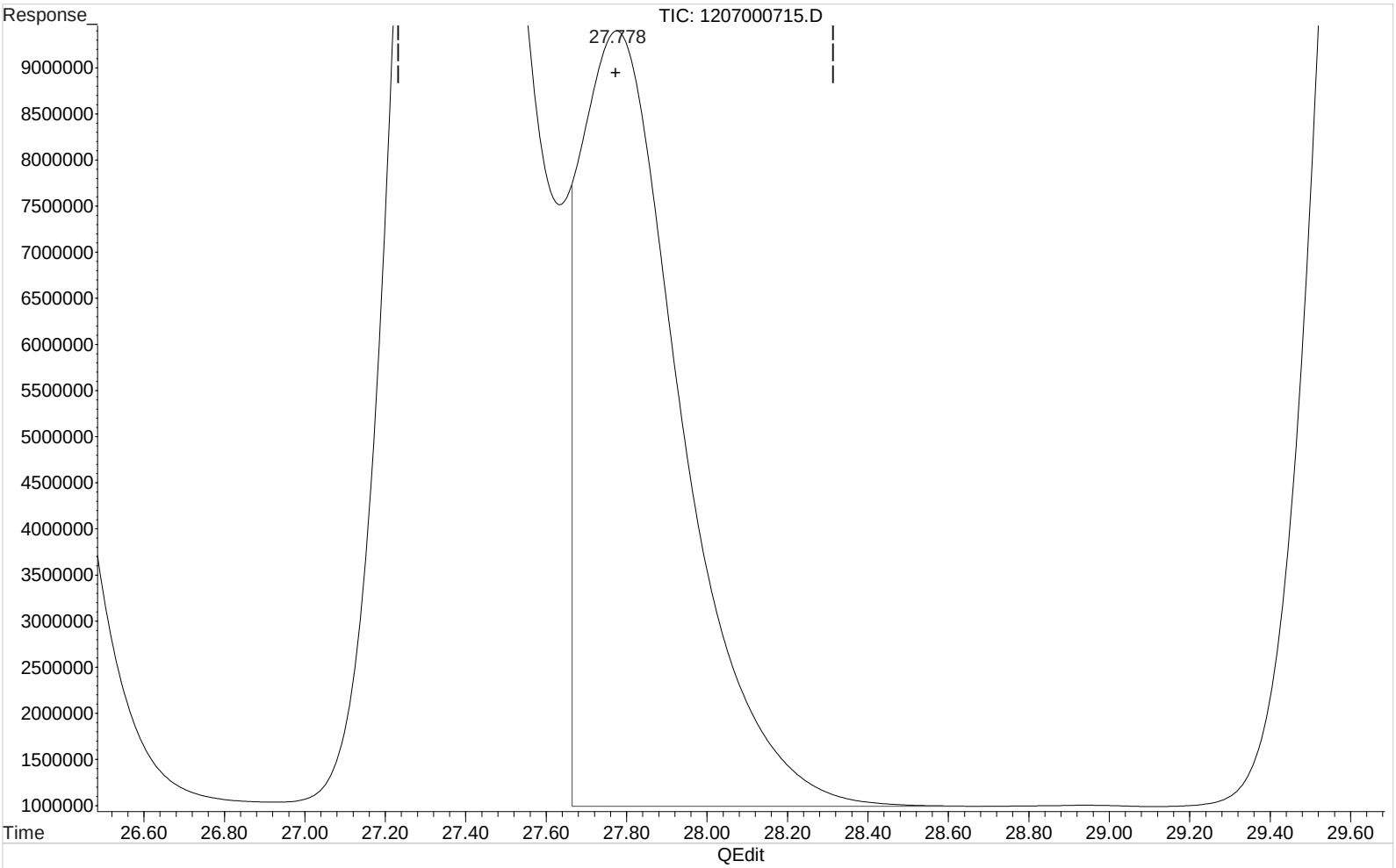
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000715.D Vial: 13
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:30:40 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:30:11 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



QEdit

(2) PETN (T)

27.778min 8252.774 ug/L

response 145211446

Manual Integration:

Before

12/08/16

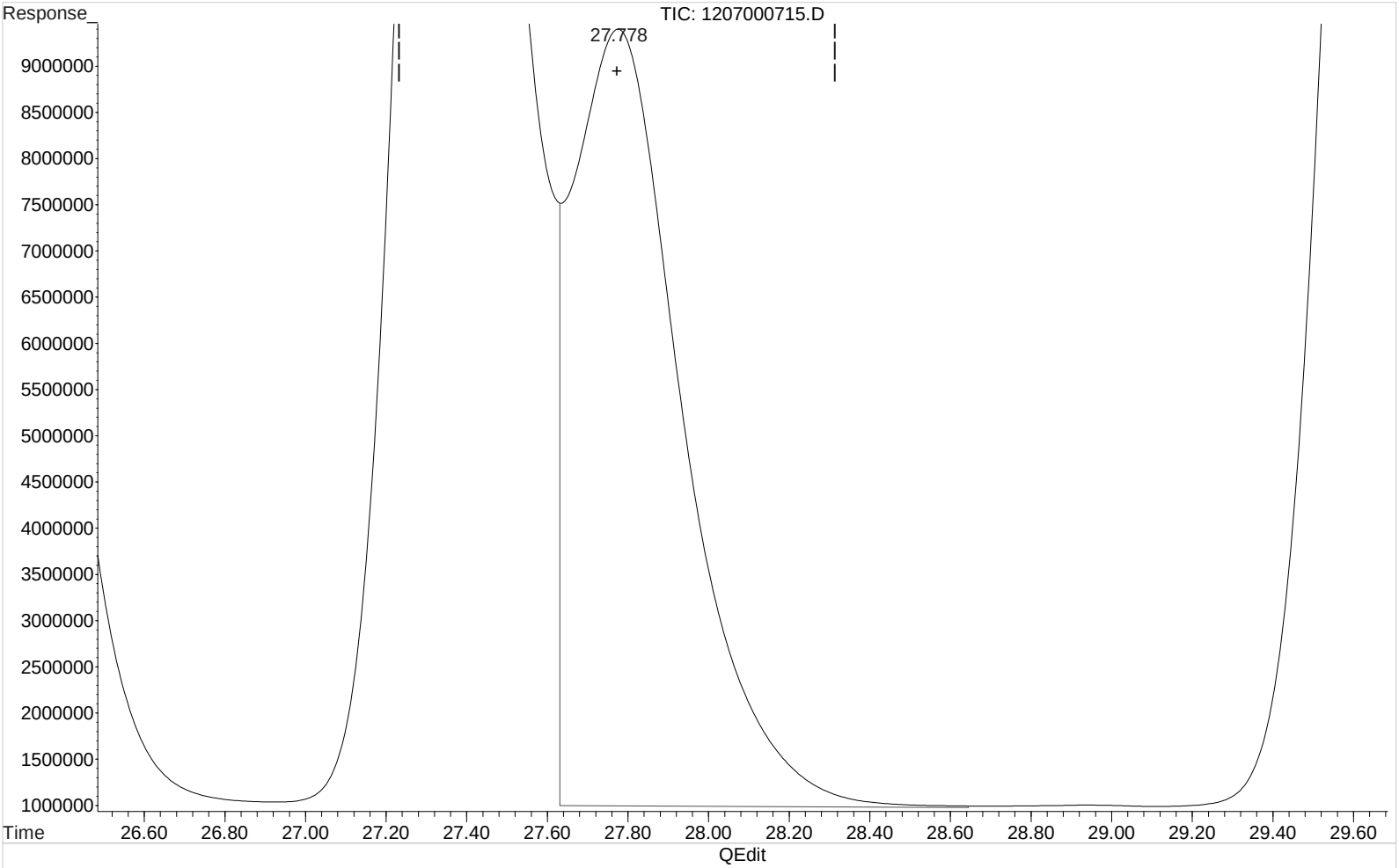
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-210\1207000715.D Vial: 13
Signal(s) : DAD1B.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 14:30:40 2016
Quant Results File: 120716_8330B@210.RES

Quant Method : J:\LC10\Method\120716_8330B@210.M
Quant Title : CAL14817
QLast Update : Thu Dec 08 14:30:11 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100 uL
Signal Phase : Synergi Hydro 4.6x250mm
Signal Info : C18 | DAD @ 210nm



(2) PETN (T)

27.778min 9023.071 ug/L m

response 158765185

Manual Integration:

After

Baseline/Shoulder

12/08/16

(+) = Expected Retention Time

Date: 12/7/2016 **ALS Kelso, WA** **ICAL Date:** 12/7/2016

By: AE **Injection Log** **ICAL ID:** (254)-15062 (210)-15063

Stealth ID: n/a **LC10 - Agilent 1260** **LIMS ID:** n/a

2nd Review: (b) (6)

Column: Phen. Synergi Hydro-RP 80A 250x4.6 mm SN 759076-19

Mobile Phases A: MeOH Lot#: 56175 **B:** ACN Lot#: 56165 **C:** H_2O Lot#: 56006 **D:**

	Sample Name	File Name	Method	Dilution	R	Comments
1		12070000101	8330BX+DIAMINOS.M	NA		
2		12070000102	8330BX+DIAMINOS.M	NA		
3		1207000202	8330BX+DIAMINOS.M	NA		
4		1207000203	8330BX+DIAMINOS.M	NA		
5		1207000204	8330BX+DIAMINOS.M	NA		
6		1207000205	8330BX+DIAMINOS.M	NA		
7		1207000206	8330BX+DIAMINOS.M	NA		
8		1207000207	8330BX+DIAMINOS.M	NA		
9		1207000303	8330BX+DIAMINOS.M	NA		
10		1207000404	8330BX+DIAMINOS.M	NA		
11		1207000405	8330BX+DIAMINOS.M	NA		
12		1207000505	8330BX+DIAMINOS.M	NA		
13		1207000601	8330BX+DIAMINOS.M	NA		
14		1207000602	8330BX+DIAMINOS.M	NA		
15		1207000603	8330BX+DIAMINOS.M	NA		
16		1207000701	8330BX+DIAMINOS.M	NA		
17		1207000702	8330BX+DIAMINOS.M	NA		
18	IB	1207000703	8330BX+DIAMINOS.M	NA	X	
19	16-OLC-01-89J 20 PPB	1207000704	8330BX+DIAMINOS.M	NA	X	
20	16-OLC-01-89I 50 PPB	1207000705	8330BX+DIAMINOS.M	NA	X	
21	16-OLC-01-89H 100 PPB	1207000706	8330BX+DIAMINOS.M	NA	X	
22	16-OLC-01-89G 200 PPB	1207000707	8330BX+DIAMINOS.M	NA	X	
23	16-OLC-01-89F 500 PPB	1207000708	8330BX+DIAMINOS.M	NA	X	
24	16-OLC-01-89E 1000 PPB	1207000709	8330BX+DIAMINOS.M	NA	X	
25	16-OLC-01-89D 2000 PPB	1207000710	8330BX+DIAMINOS.M	NA	X	
26	16-OLC-01-89C 5000 PPB	1207000711	8330BX+DIAMINOS.M	NA	X	
27	16-OLC-01-89B 10000 PPB	1207000712	8330BX+DIAMINOS.M	NA	X	
28	16-OLC-01-89A 20000 PPB	1207000713	8330BX+DIAMINOS.M	NA	X	
29	IB	1207000714	8330BX+DIAMINOS.M	NA	X	
30	16-OLC-01-89K 10000 PPB ICV	1207000715	8330BX+DIAMINOS.M	NA	X	

(Cal not valid for Diaminos)

R:\OLC\Injection Logs\LC10 2016\INJLOG_LC10_xl_120716_ICAL

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000703.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 19:36:44 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:24:49 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:23:13 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	0.000	0	N.D.	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	0.000	0	N.D.	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	0.000	0	N.D.	ug/L
5)	T	1,3,5-TNB	0.000	0	N.D.	ug/L
6)	T	1,3-DNB	0.000	0	N.D.	ug/L
7)	T	3,5-Dinitroaniline	0.000	0	N.D.	ug/L
8)	T	Tetryl	0.000	0	N.D.	ug/L
9)	T	Nitrobenzene	0.000	0	N.D.	ug/L
10)	T	2,4,6-TNT	0.000	0	N.D.	ug/L
11)	T	4-Amino-2,6-DNT	0.000	0	N.D.	ug/L
12)	T	2-Amino-4,6-DNT	0.000	0	N.D.	ug/L
13)	T	2,6-DNT	0.000	0	N.D.	ug/L
14)	T	2,4-DNT	0.000	0	N.D.	ug/L
15)	T	2-NT	0.000	0	N.D.	ug/L
16)	T	4-NT	0.000	0	N.D.	ug/L
17)	T	3-NT	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000703.D Vial: 1
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 19:36:44 Operator: AE
Sample : IB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
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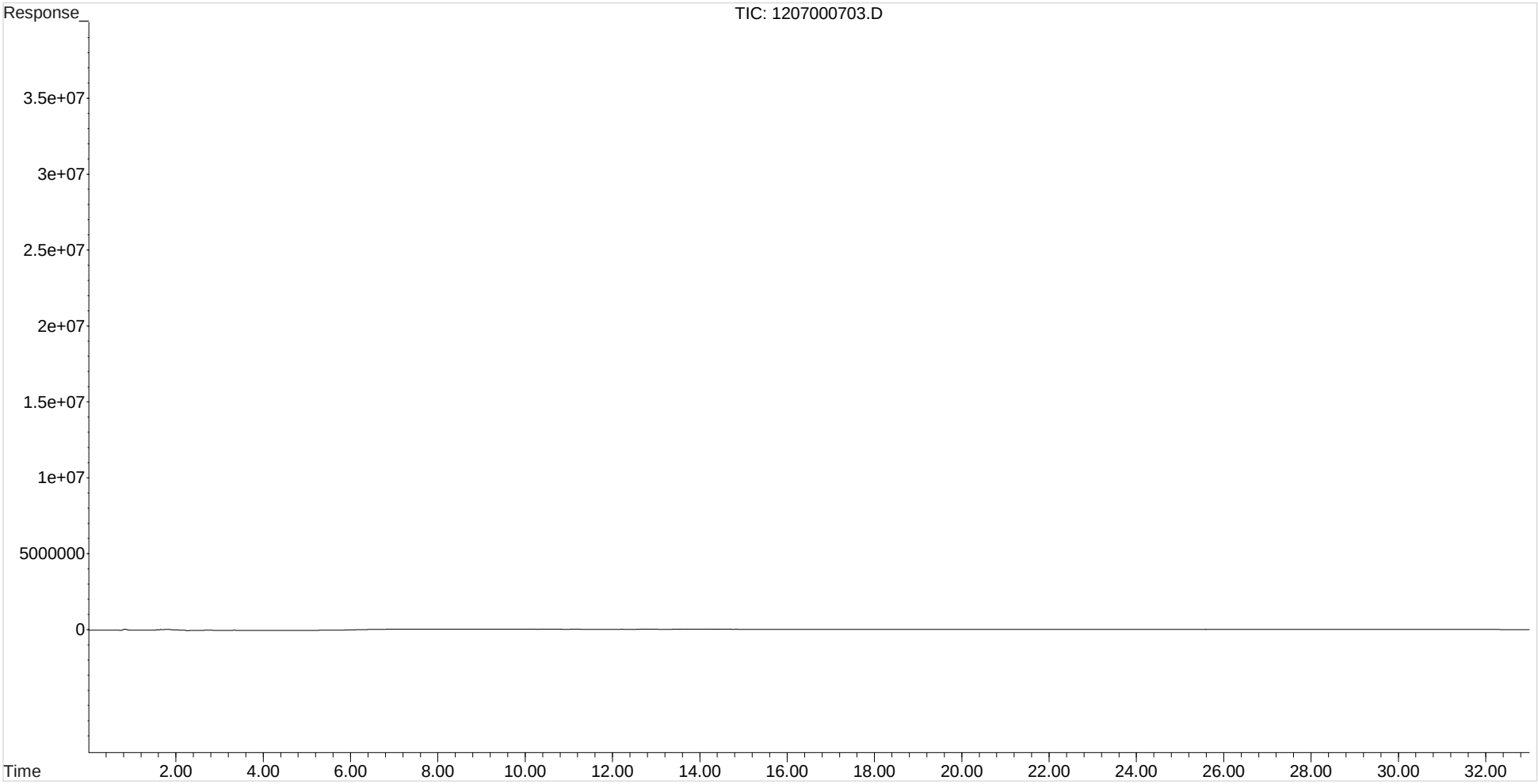
Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:23:13 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 13:46:47 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
18) S	1-Chloro-3-Nitrobenzene	29.718	461332	NoCal	ug/L	m
	Target Compounds					
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2) T	HMX	4.618	232698	NoCal	ug/L	m
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4) T	RDX	8.378	420328	NoCal	ug/L	m
5) T	1,3,5-TNB	10.518	908690	NoCal	ug/L	m
6) T	1,3-DNB	13.865	1258488	NoCal	ug/L	
7) T	3,5-Dinitroaniline	14.978	975768	NoCal	ug/L	m
8) T	Tetryl	15.592	673809	NoCal	ug/L	m
9) T	Nitrobenzene	16.198	787874	NoCal	ug/L	m
10) T	2,4,6-TNT	17.445	797481	NoCal	ug/L	m
11) T	4-Amino-2,6-DNT	19.212	537582	NoCal	ug/L	m
12) T	2-Amino-4,6-DNT	20.038	846074	NoCal	ug/L	m
13) T	2,6-DNT	21.765	470868	NoCal	ug/L	m
14) T	2,4-DNT	22.218	1151614	NoCal	ug/L	m
15) T	2-NT	25.332	349859	NoCal	ug/L	m
16) T	4-NT	26.252	319957	NoCal	ug/L	m
17) T	3-NT	27.378	411159	NoCal	ug/L	m

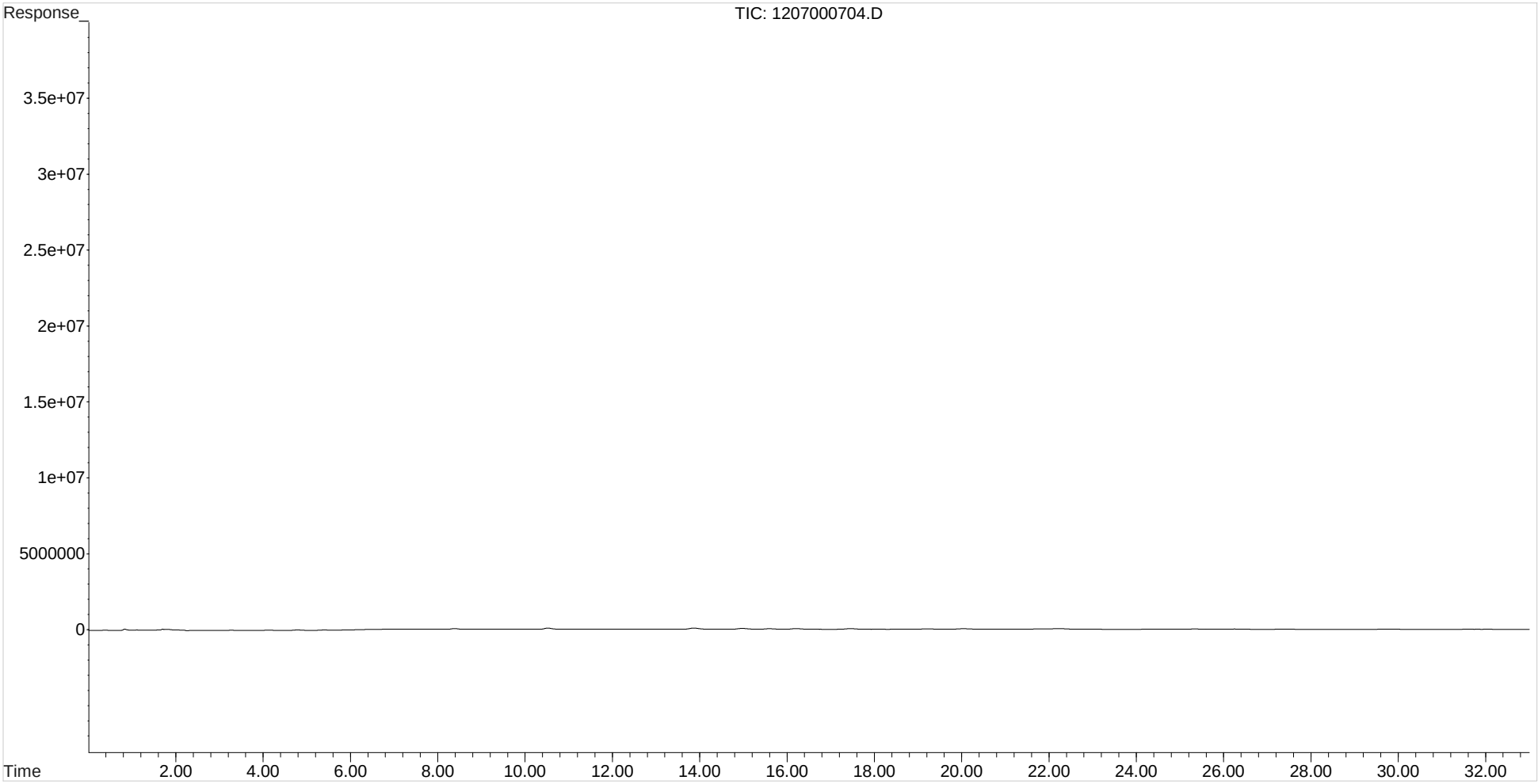
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 13:46:47 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

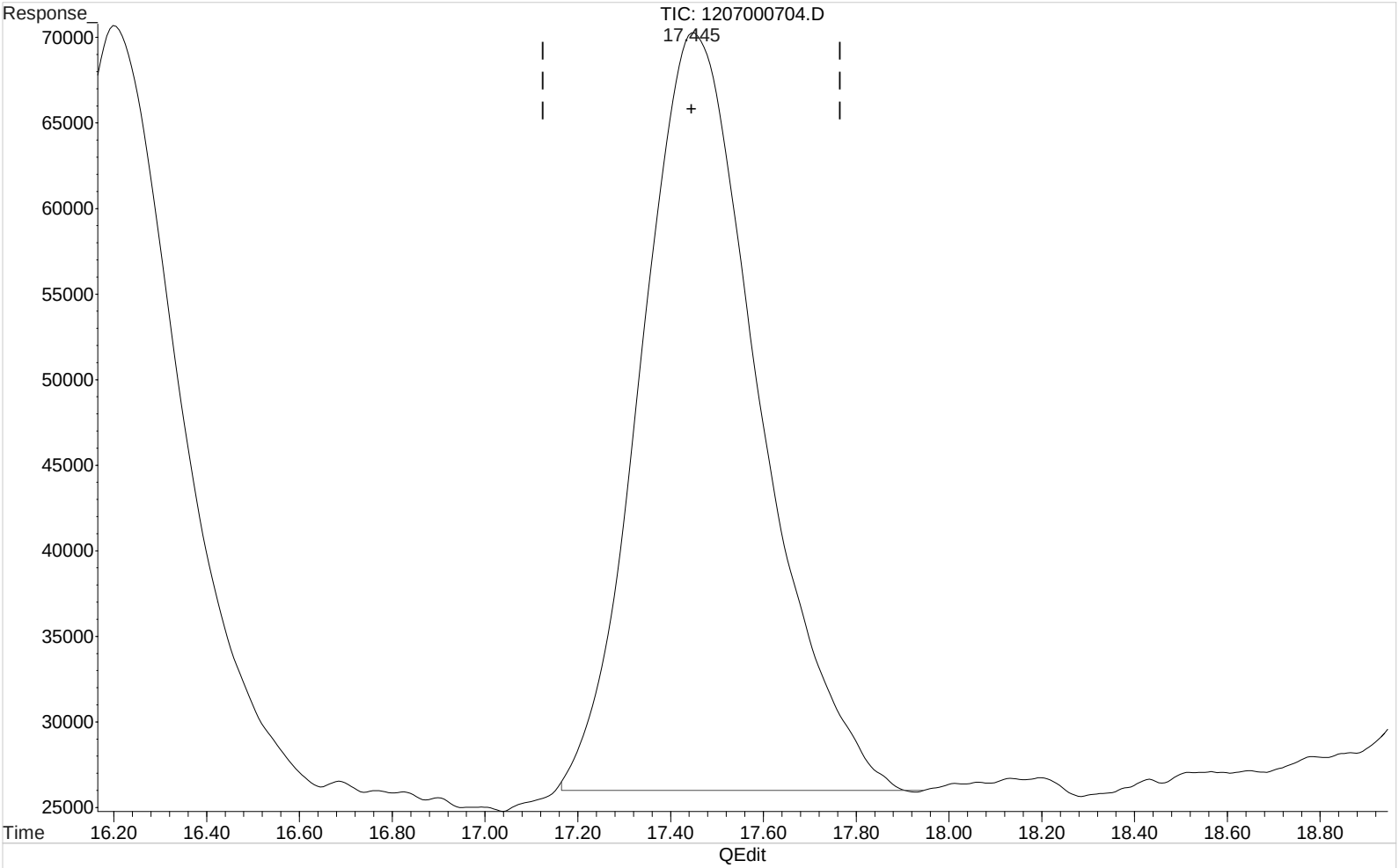


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(10) 2,4,6-TNT (T)

17.445min 0.000 ug/L

response 786868

Manual Integration:

Before

12/08/16

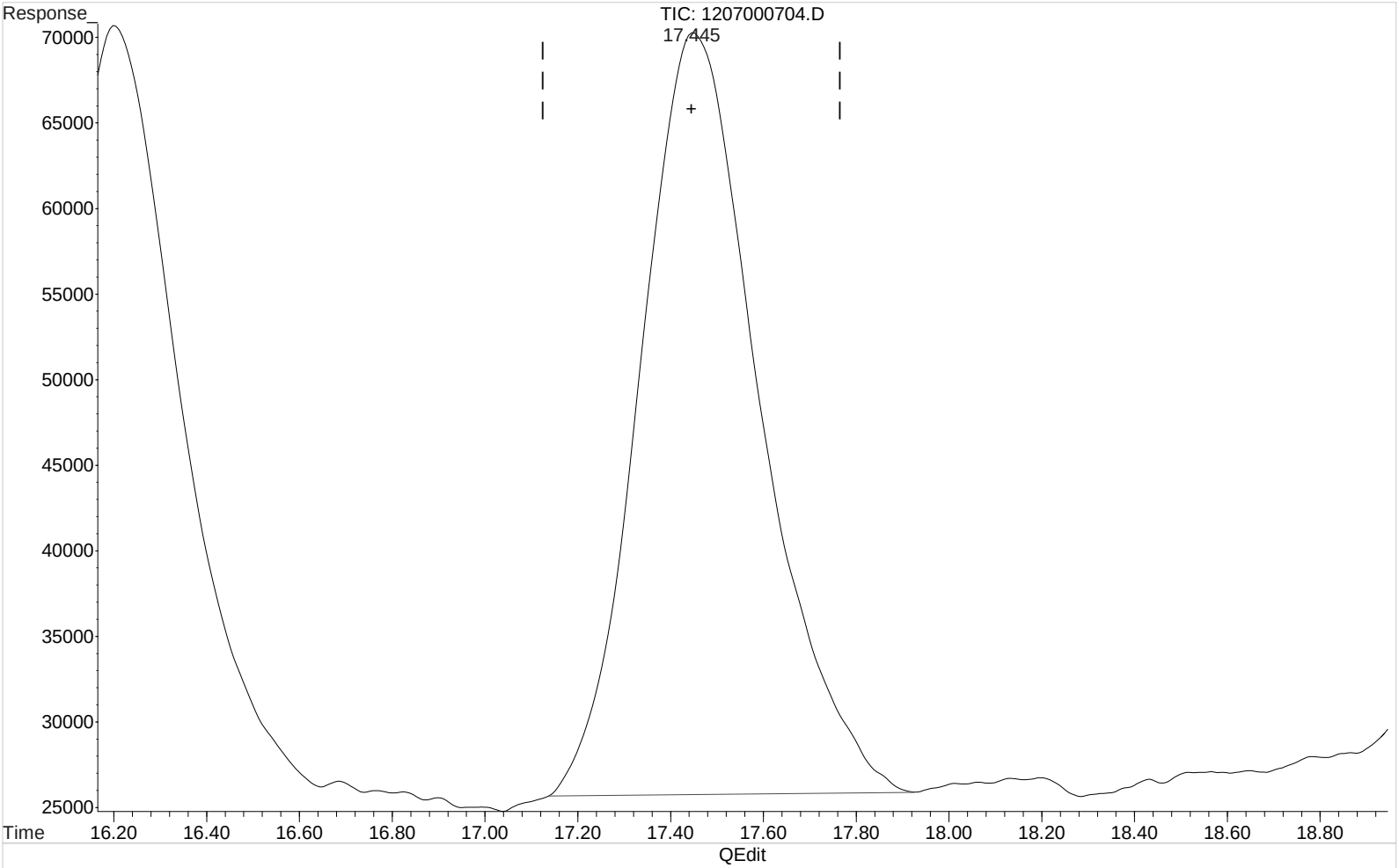
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(10) 2,4,6-TNT (T)

17.445min 0.000 ug/L m

response 797481

Manual Integration:

After

BLC

12/08/16

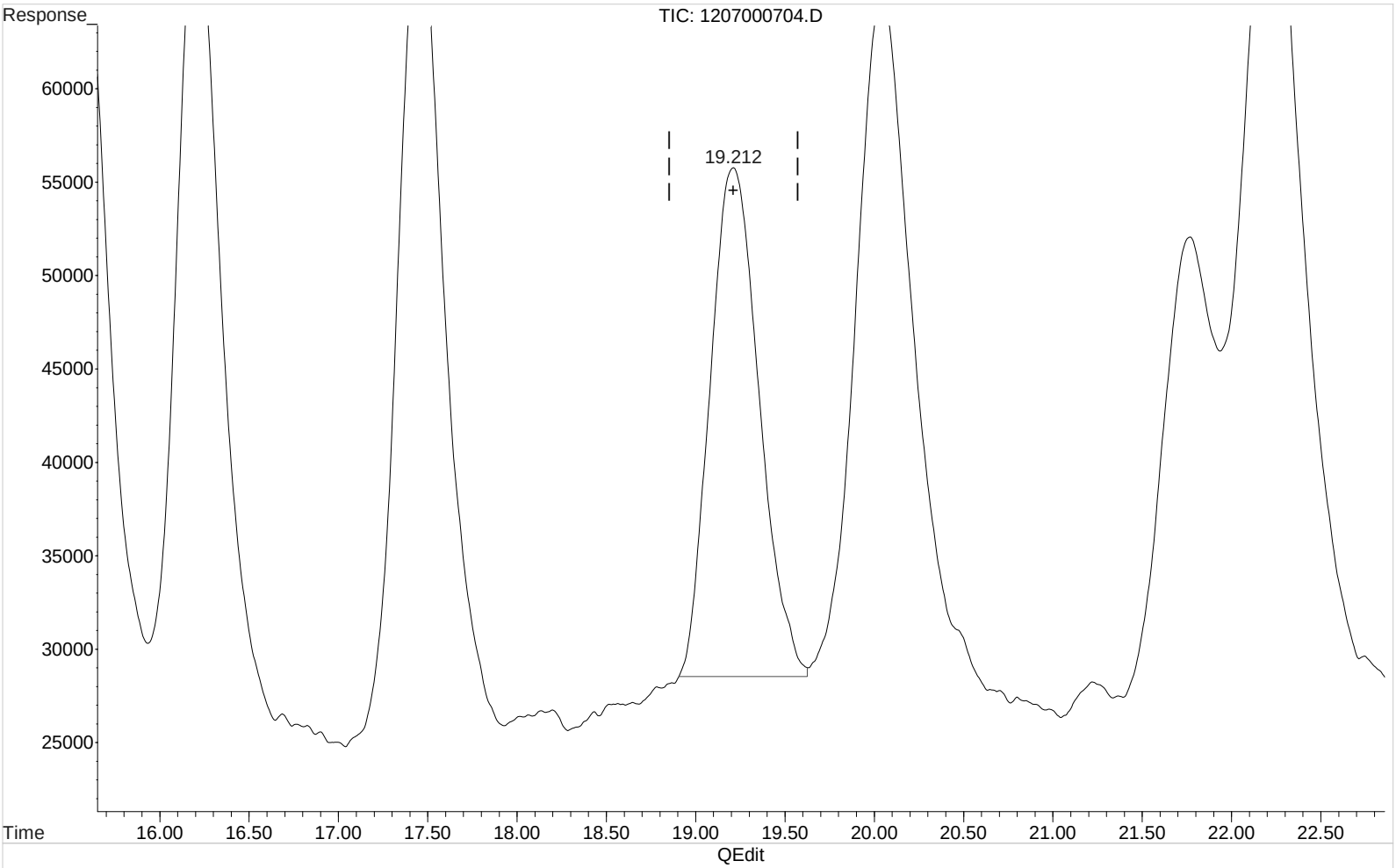
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(11) 4-Amino-2,6-DNT (T)

19.212min 0.000 ug/L

response 521042

Manual Integration:

Before

12/08/16

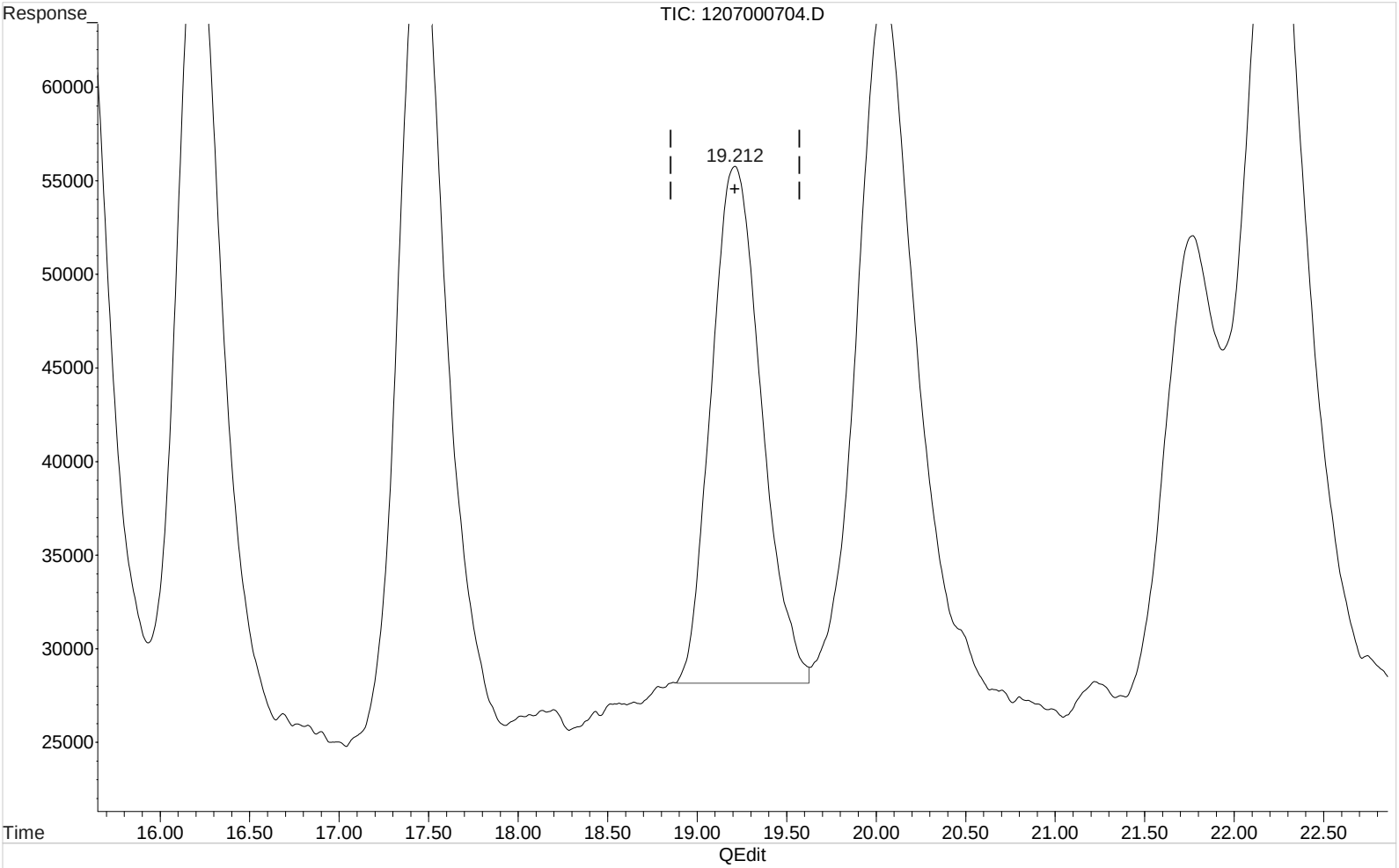
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(11) 4-Amino-2,6-DNT (T)

19.212min 0.000 ug/L m

response 537582

Manual Integration:

After

BLC

12/08/16

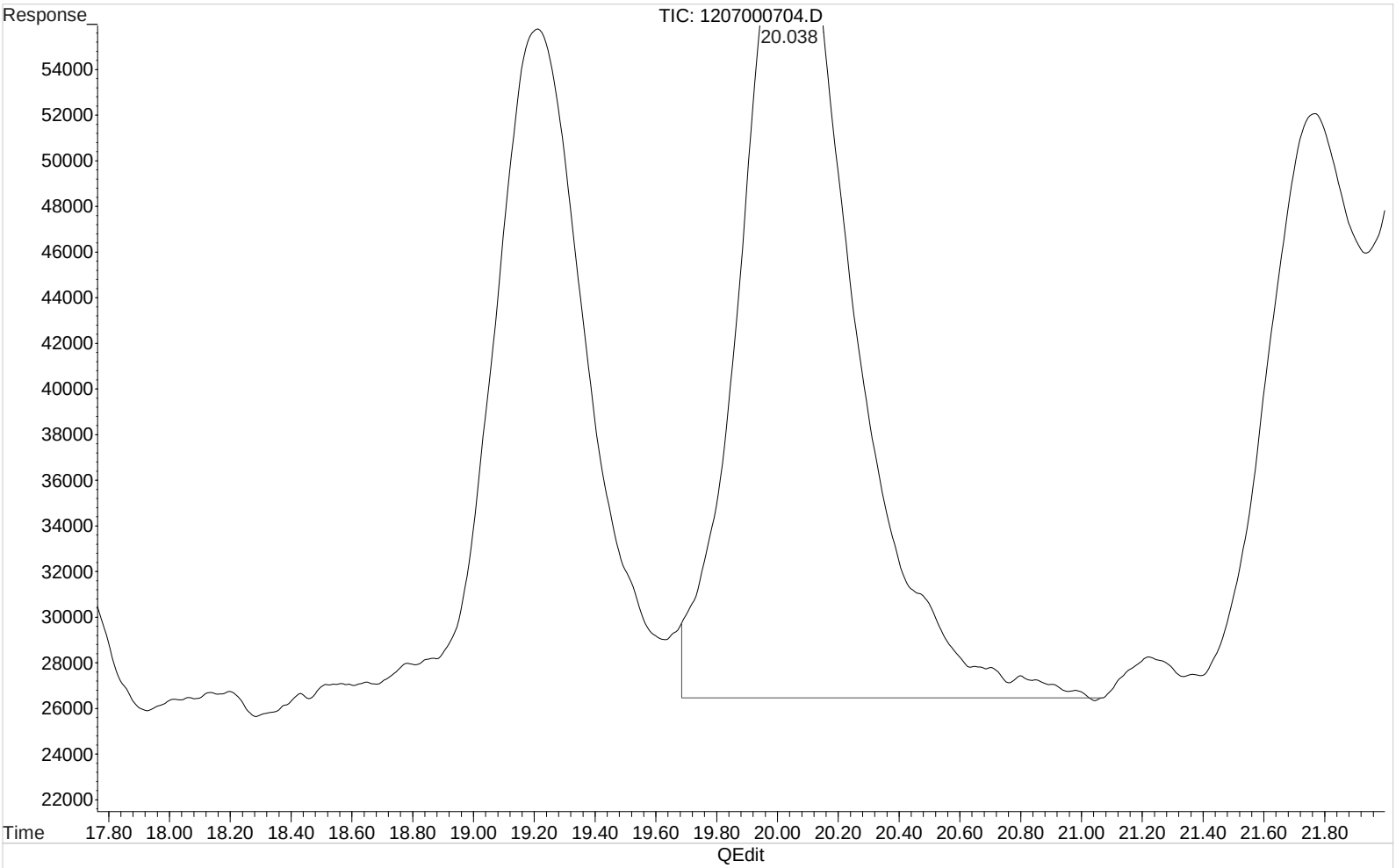
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(12) 2-Amino-4,6-DNT (T)

20.038min 0.000 ug/L

response 932740

Manual Integration:

Before

12/08/16

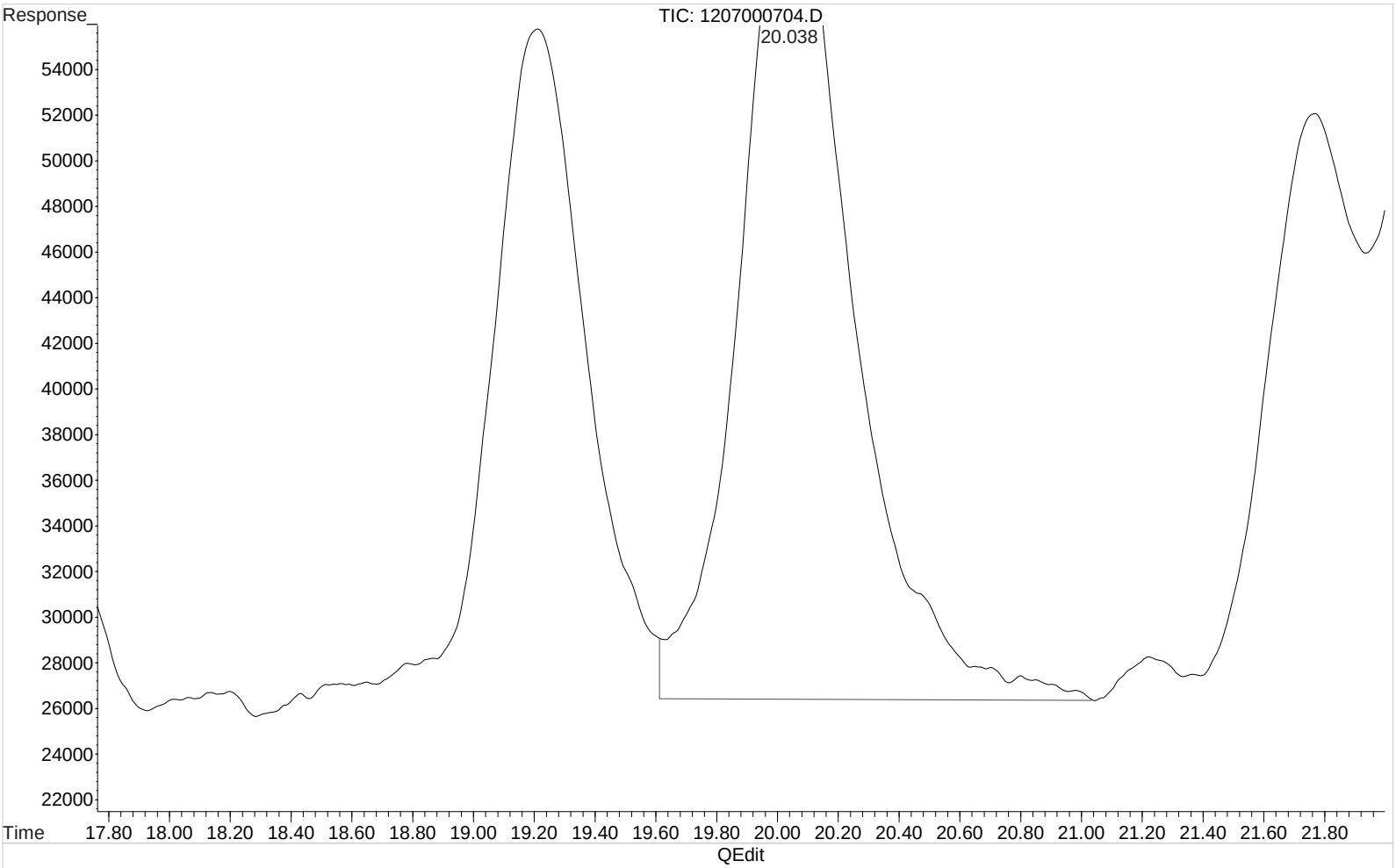
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(12) 2-Amino-4,6-DNT (T)

20.038min 0.000 ug/L m

response 951343

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)

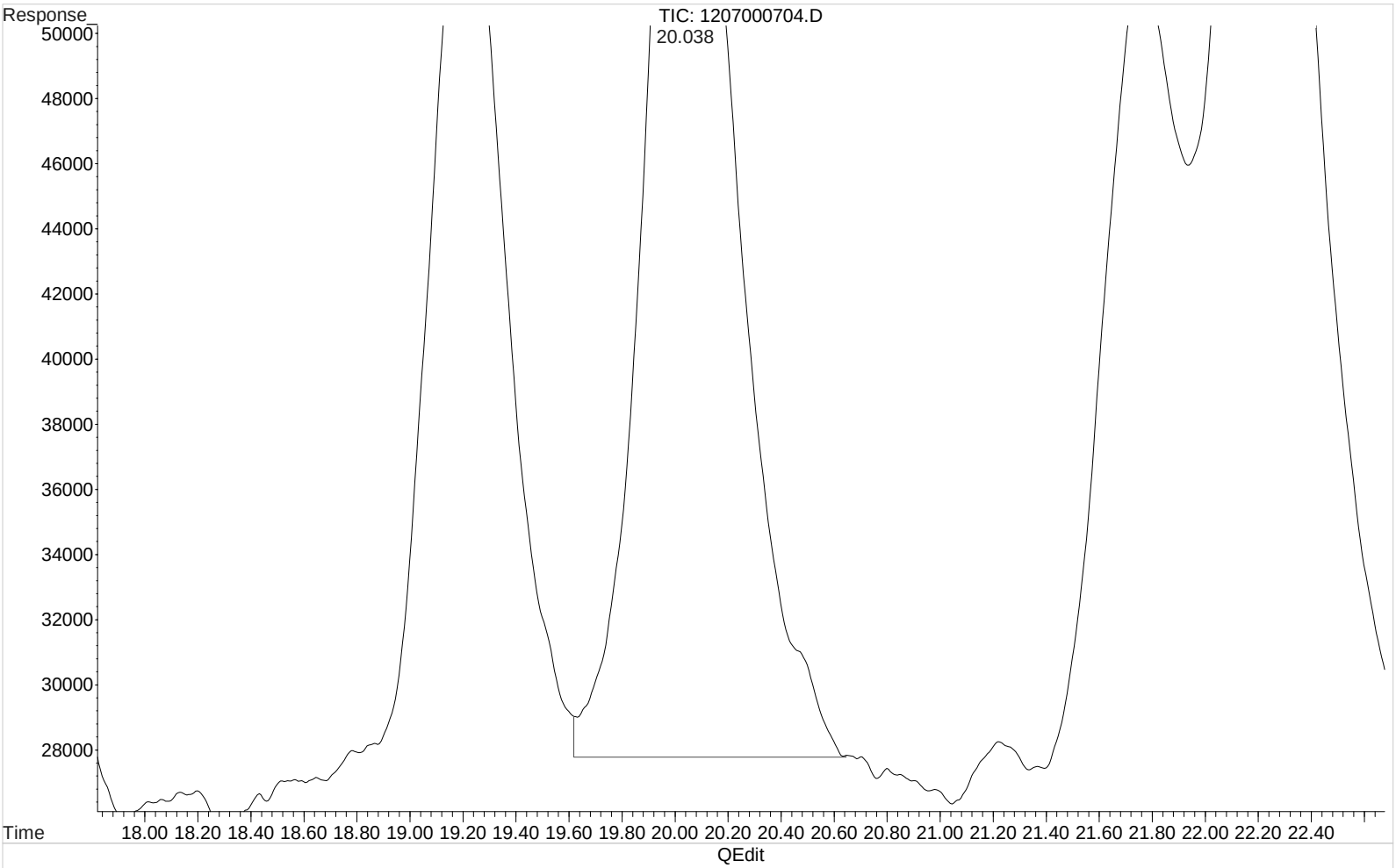
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:32:07 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(12) 2-Amino-4,6-DNT (T)

20.038min 0.000 ug/L m

response 846074

Manual Integration:

After

Baseline/Shoulder

12/08/16

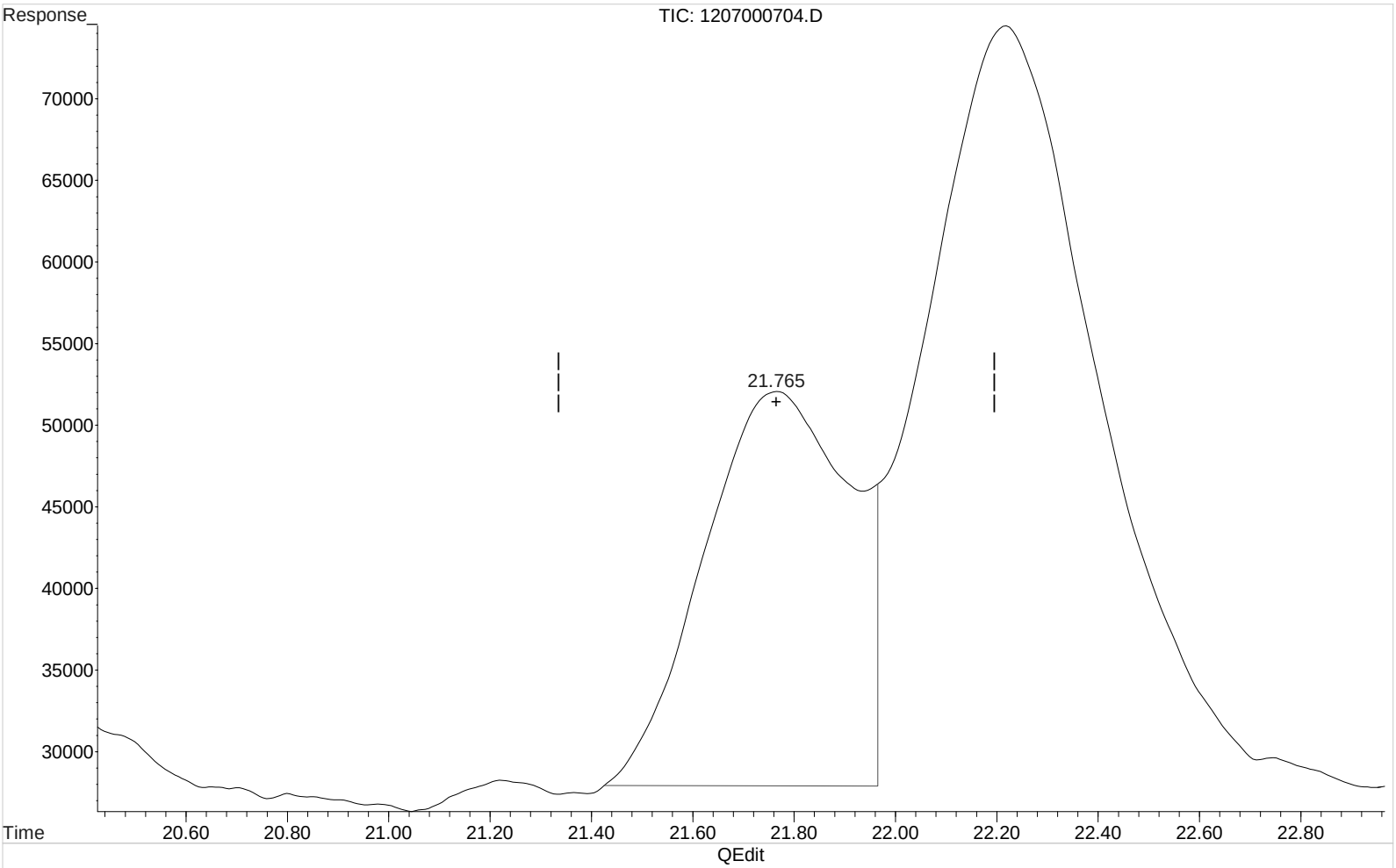
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.765min 0.000 ug/L

response 490736

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

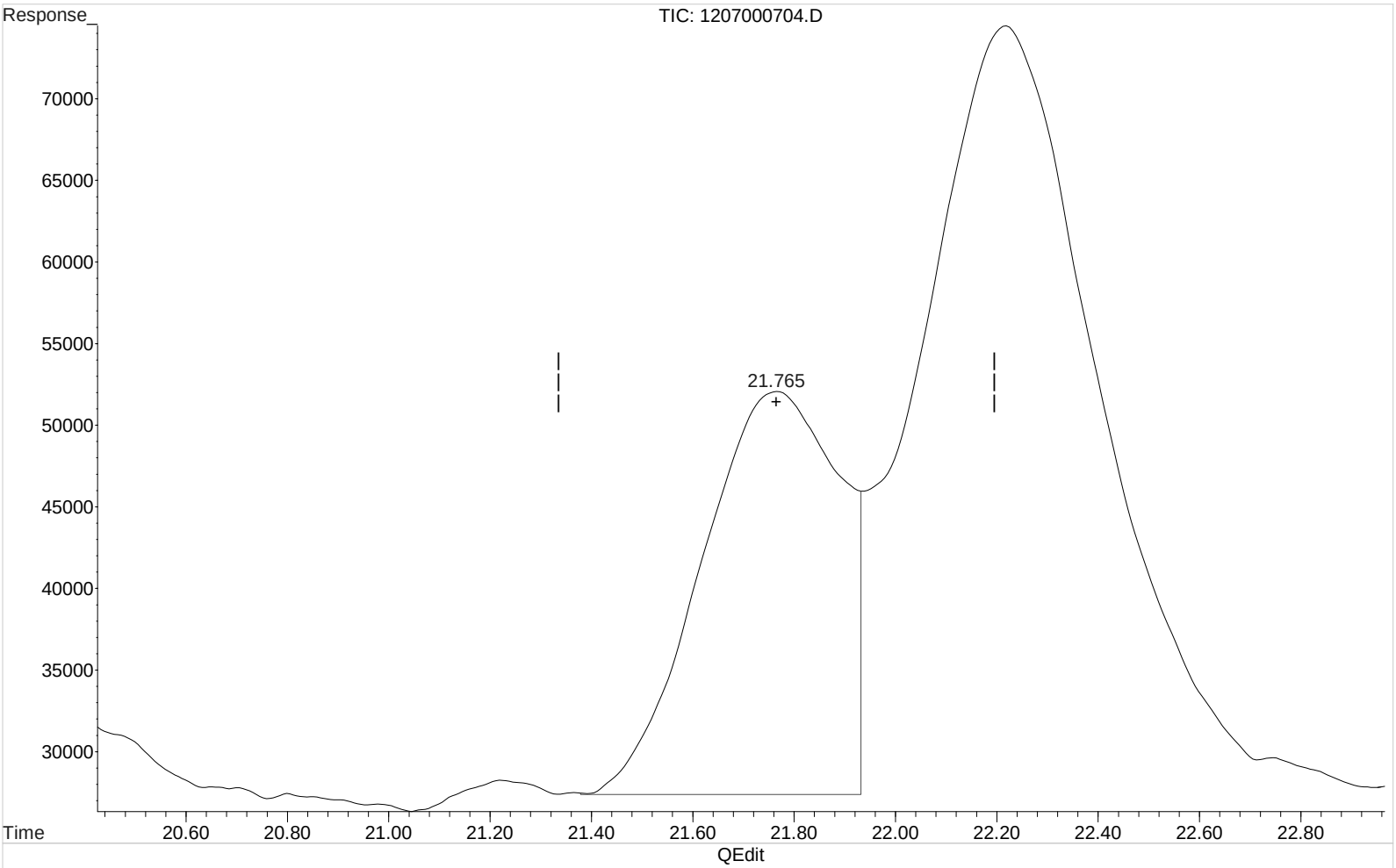
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.765min 0.000 ug/L m

response 470868

Manual Integration:

After

BLC

12/08/16

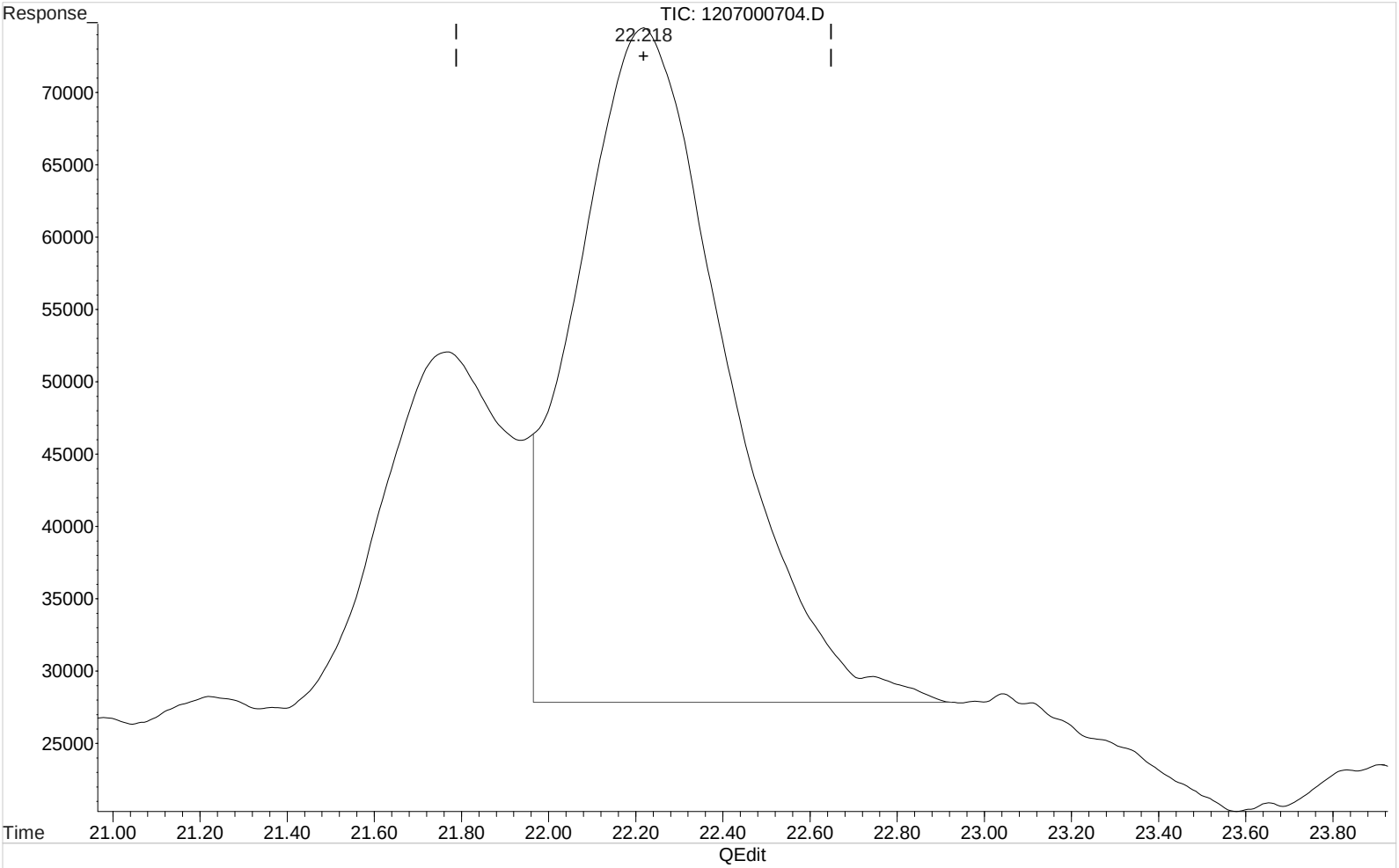
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.218min 0.000 ug/L

response 1110180

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

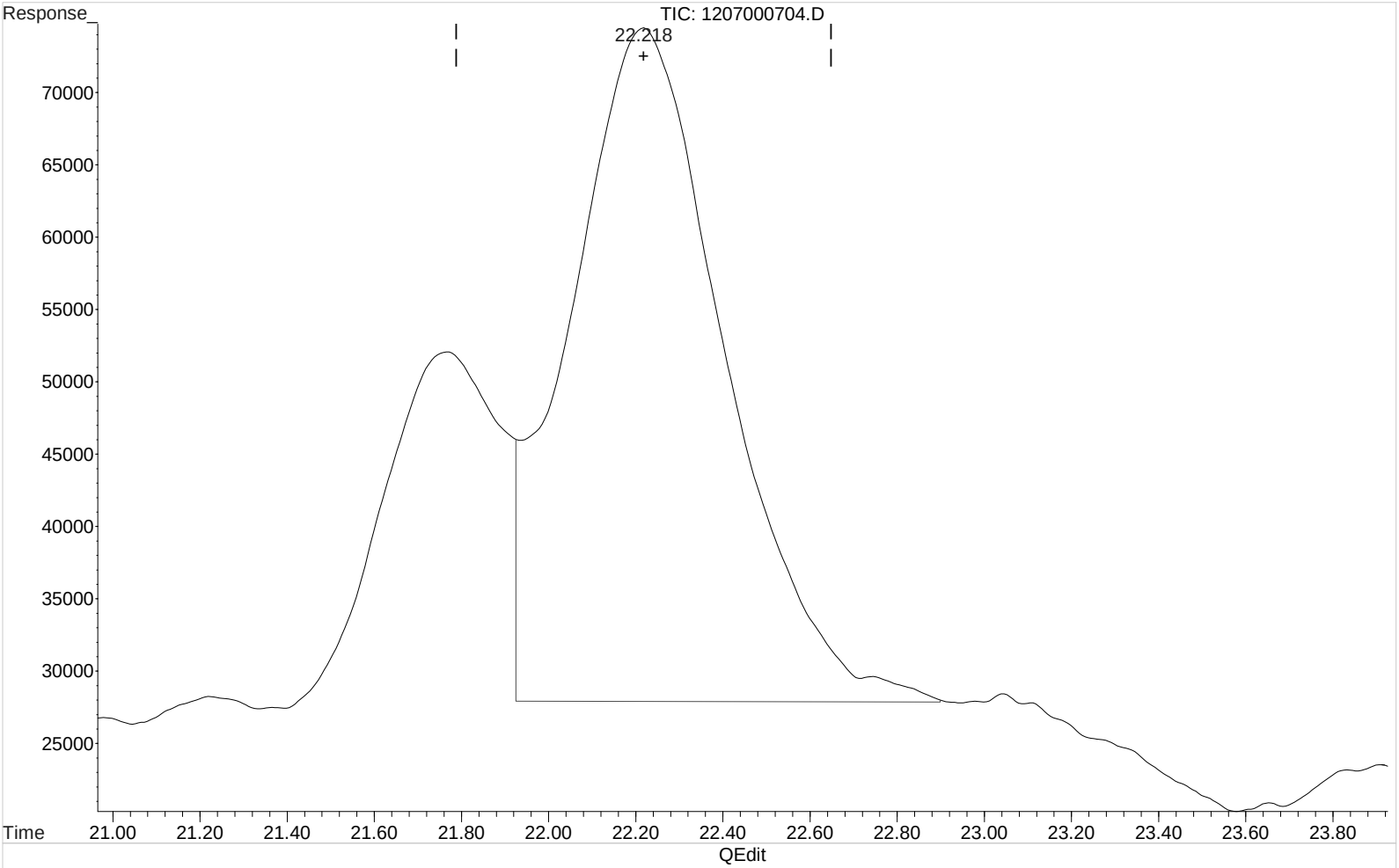
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(14) 2,4-DNT (T)

22.218min 0.000 ug/L m

response 1151614

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)

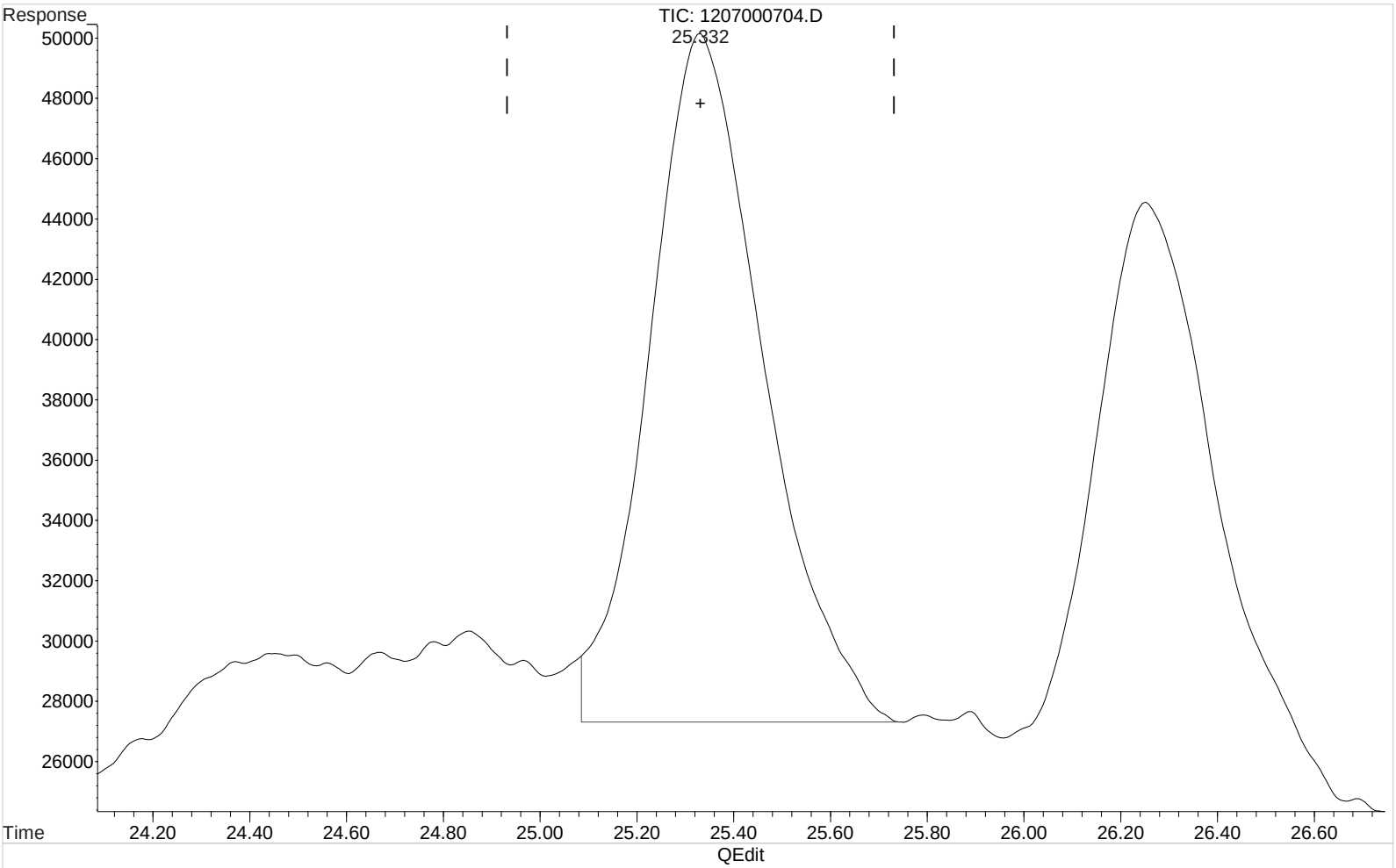
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.332min 0.000 ug/L

response 373720

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

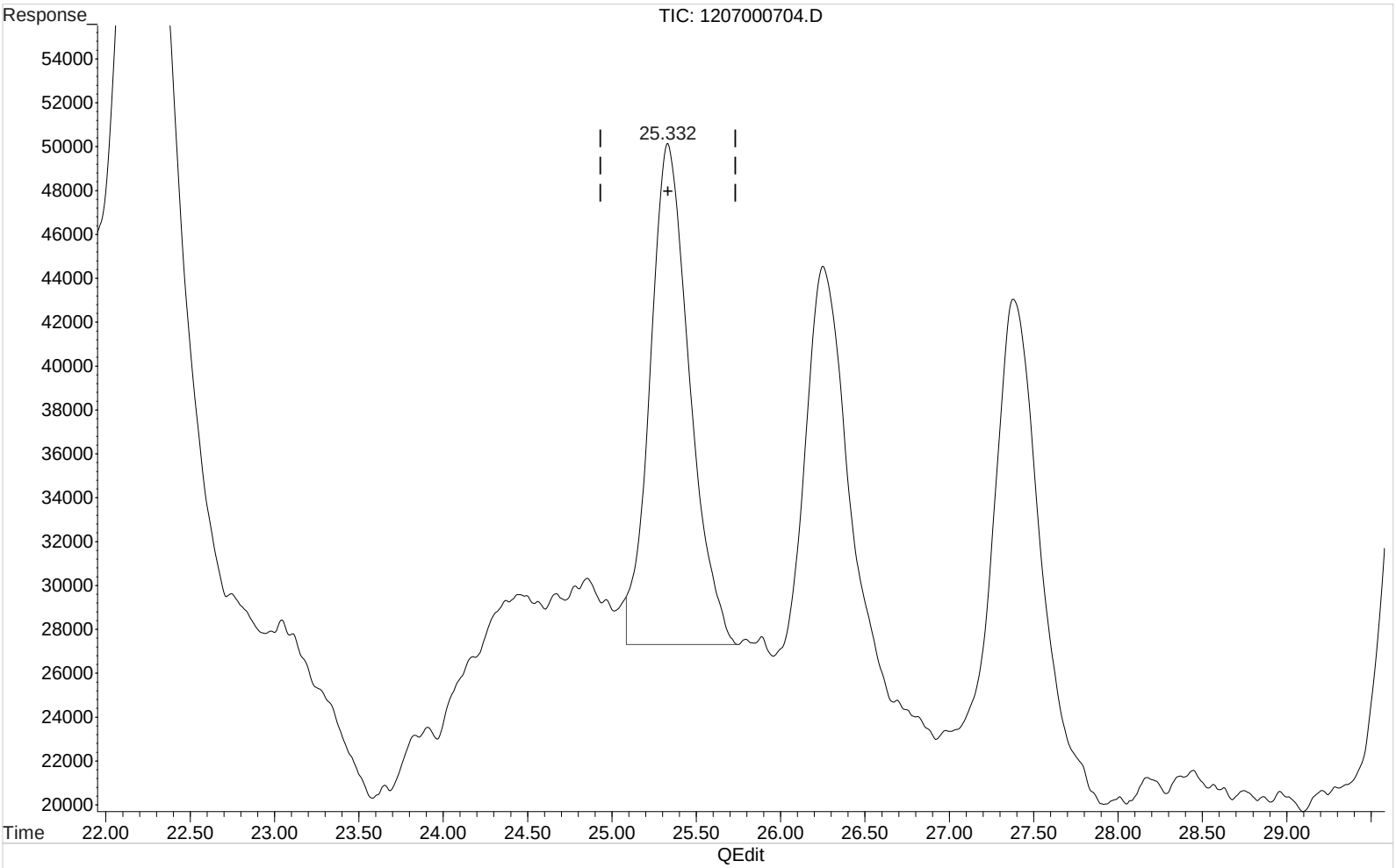
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.332min 0.000 ug/L

response 373720

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

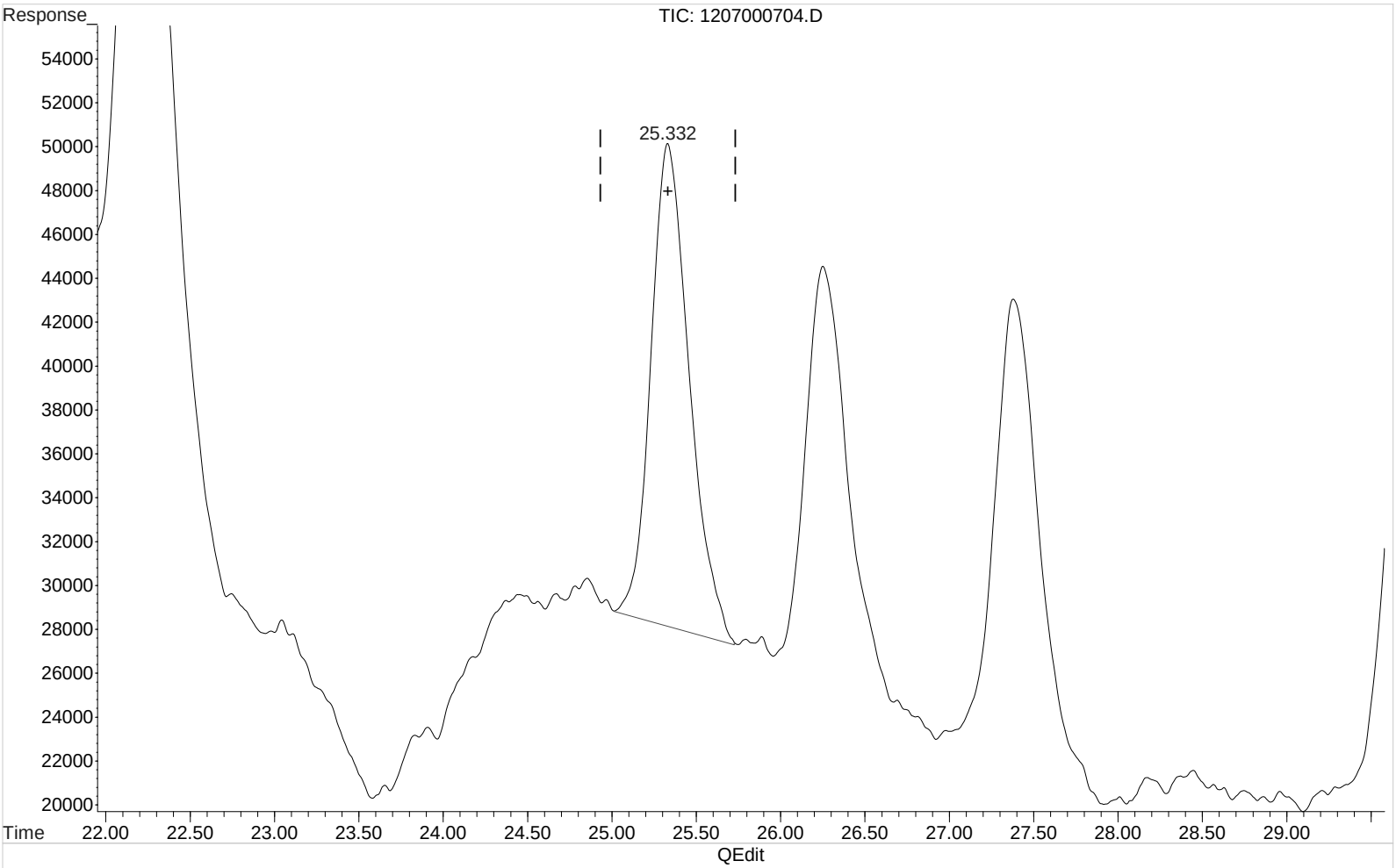
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.332min 0.000 ug/L m

response 349859

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)

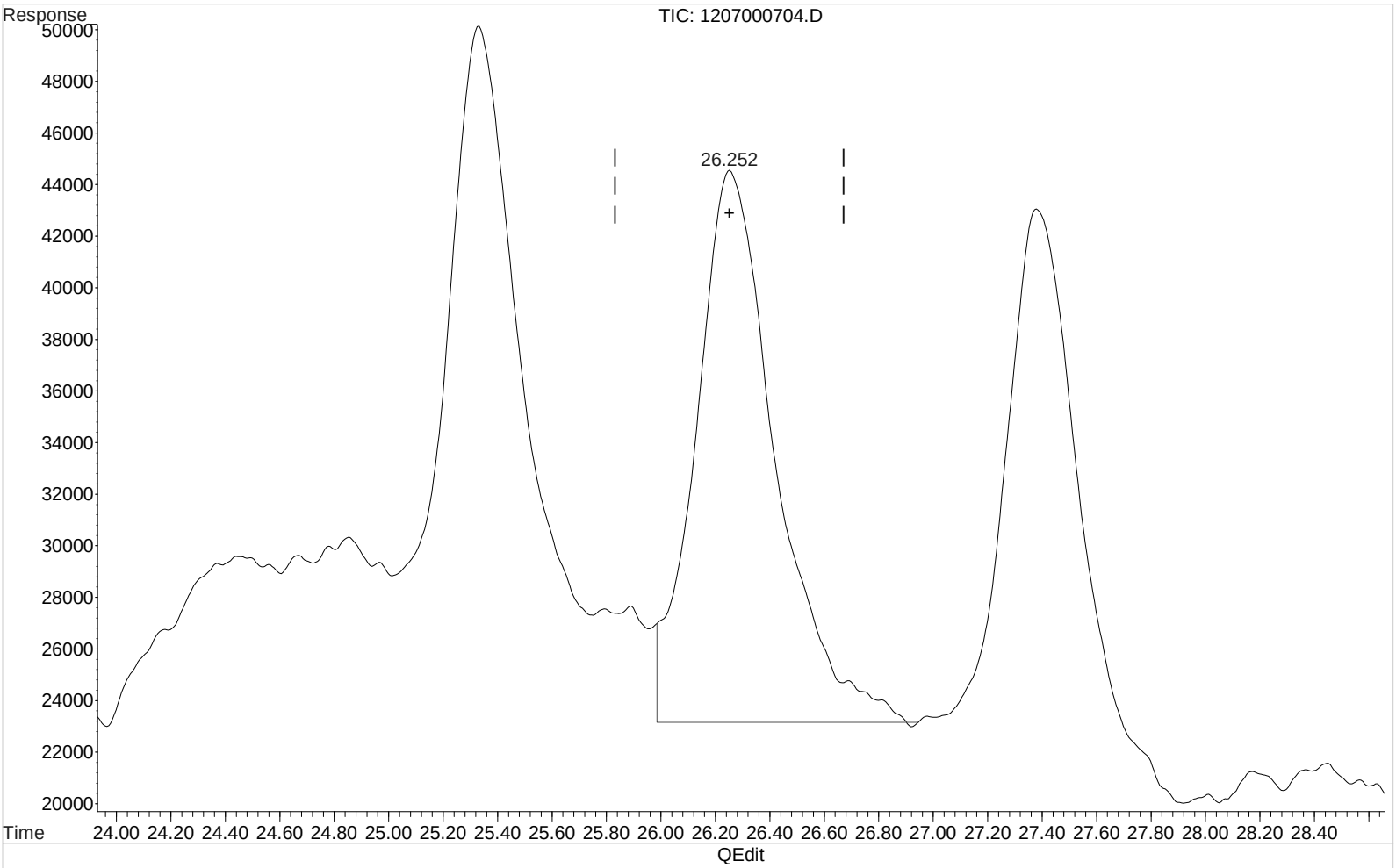
/08/16

/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.252min 0.000 ug/L

response 435478

Manual Integration:

Before

12/08/16

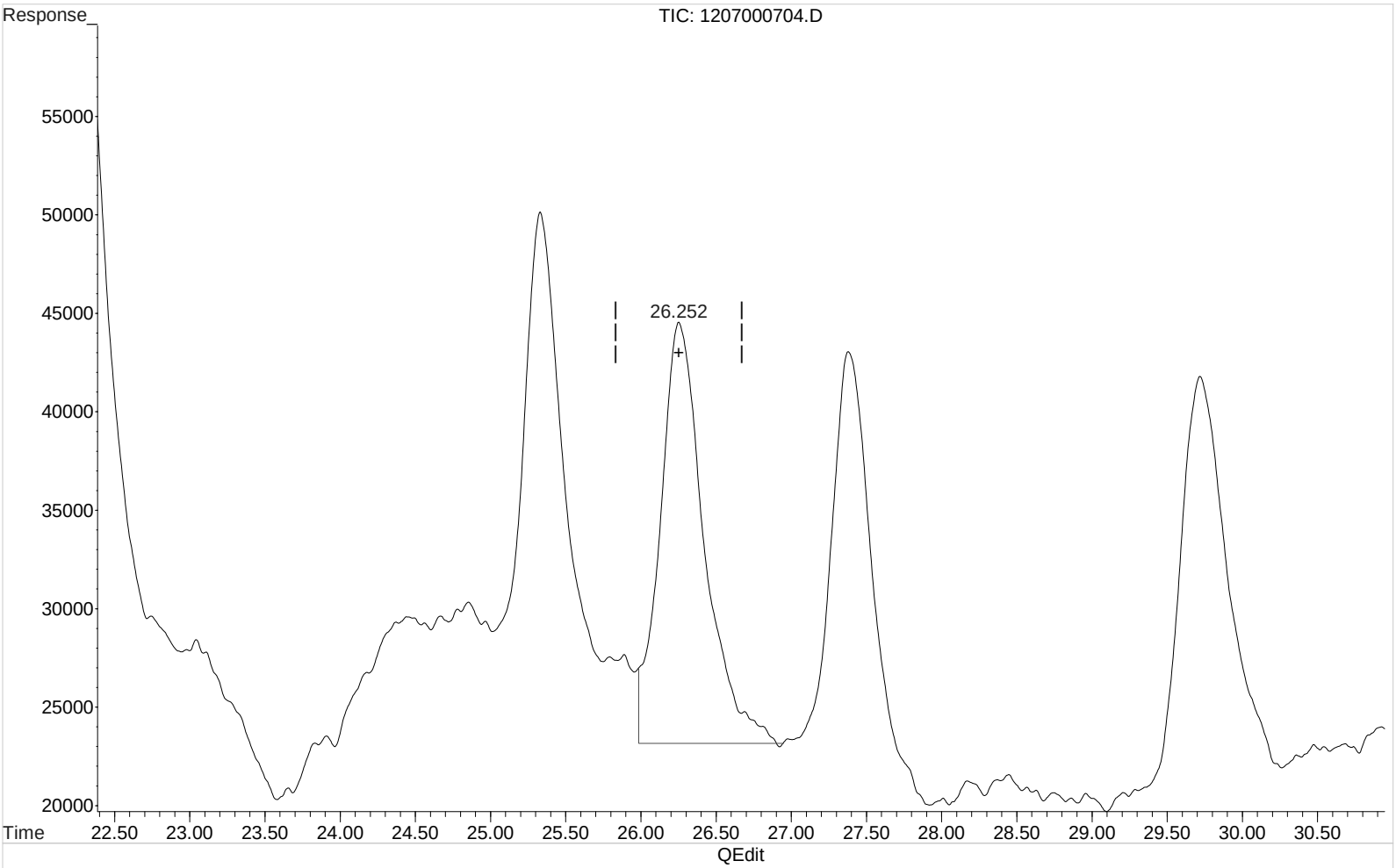
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.252min 0.000 ug/L

response 435478

Manual Integration:

Before

12/08/16

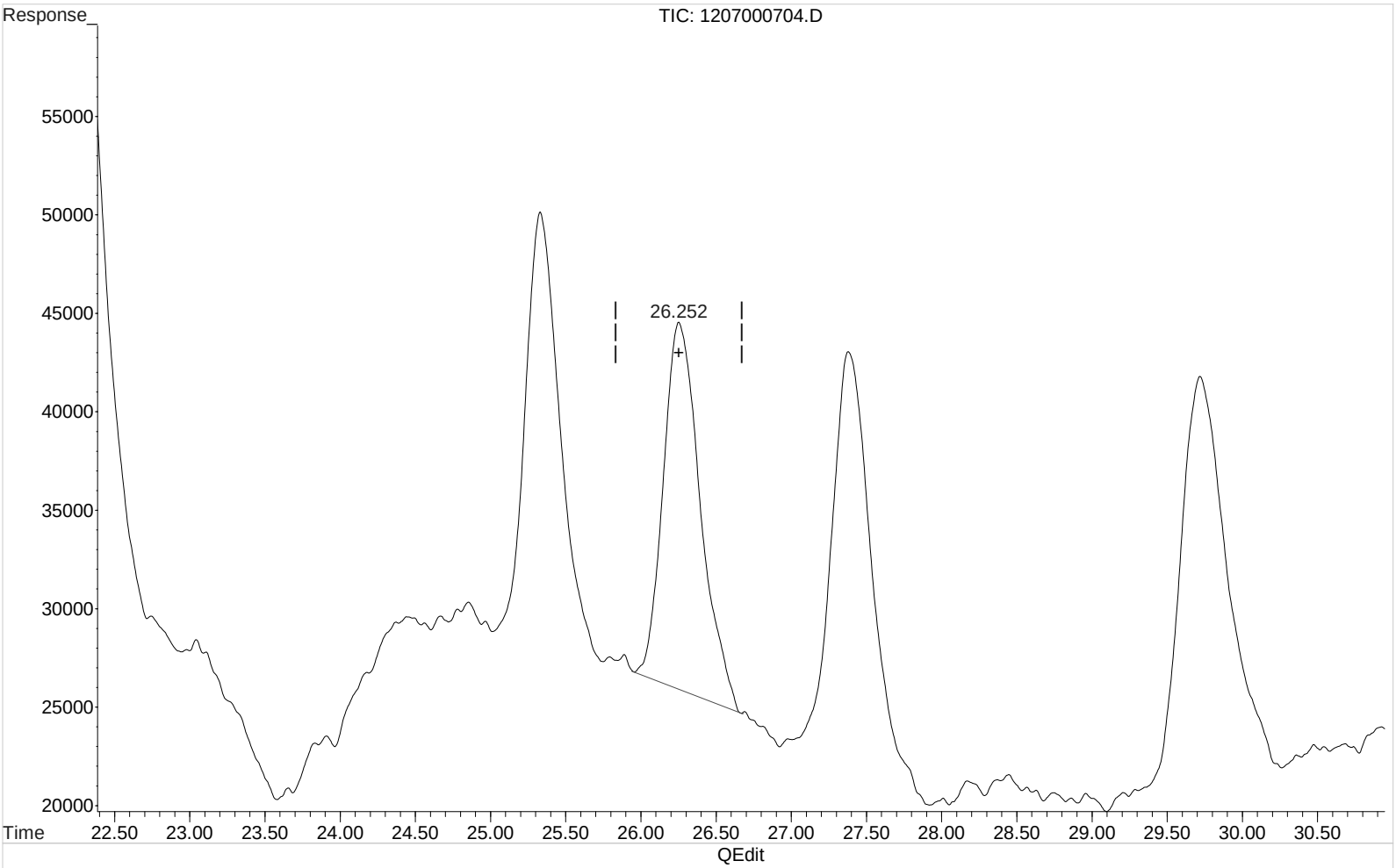
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(16) 4-NT (T)

26.252min 0.000 ug/L m

response 319957

Manual Integration:

After

BLC

12/08/16

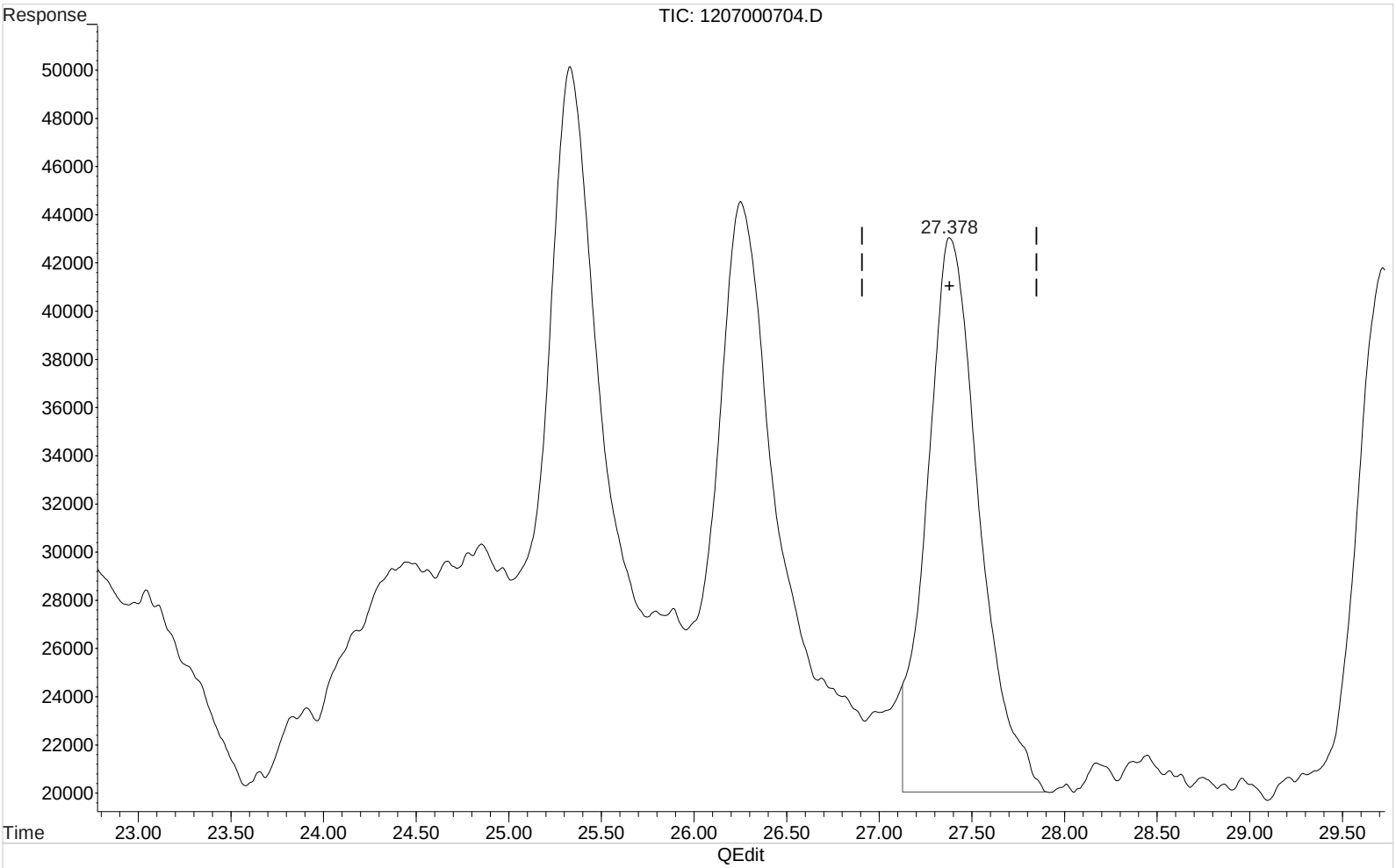
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.378min 0.000 ug/L

response 452684

Manual Integration:

Before

12/08/16

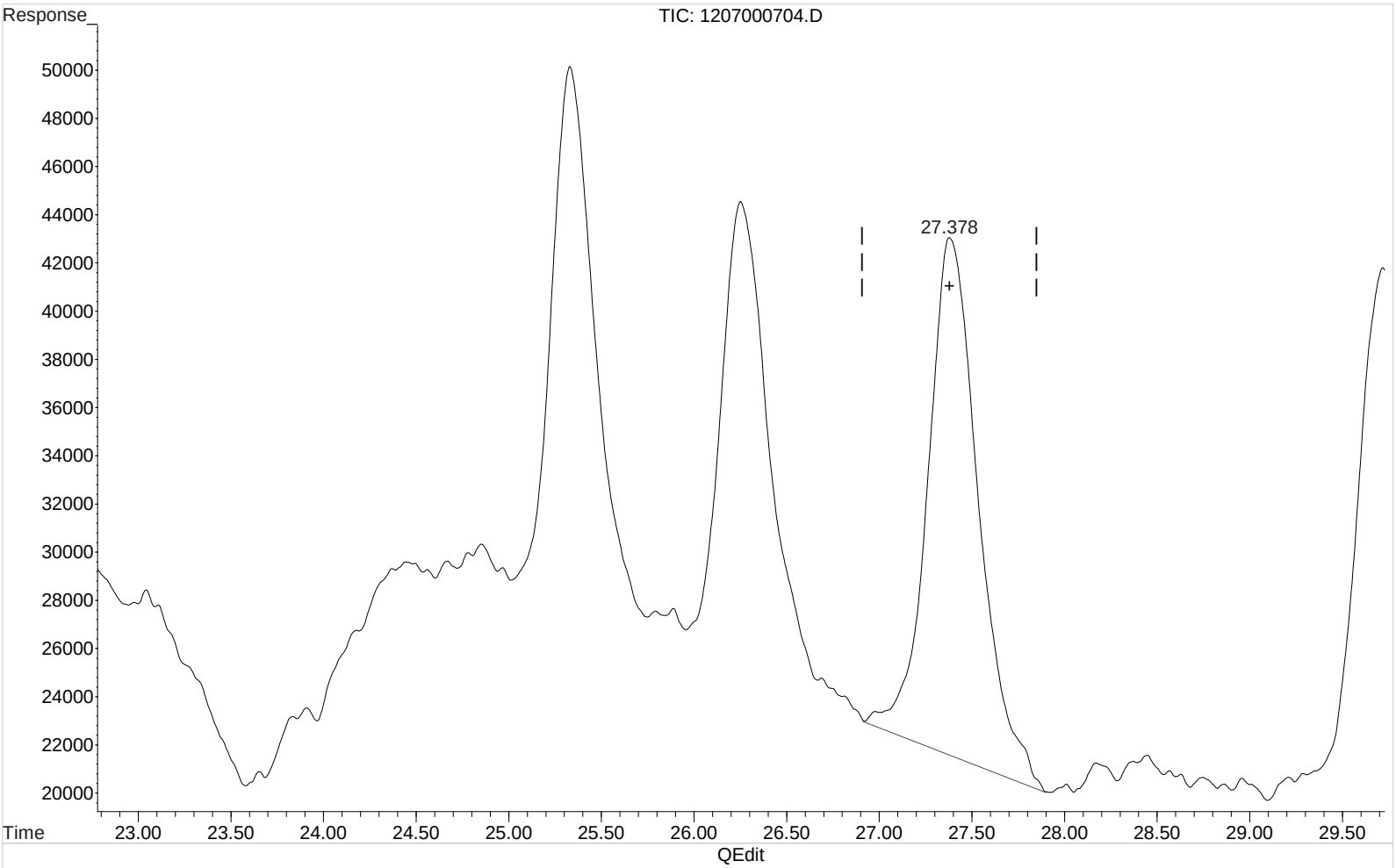
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.378min 0.000 ug/L m

response 411159

Manual Integration:

After

BLC

12/08/16

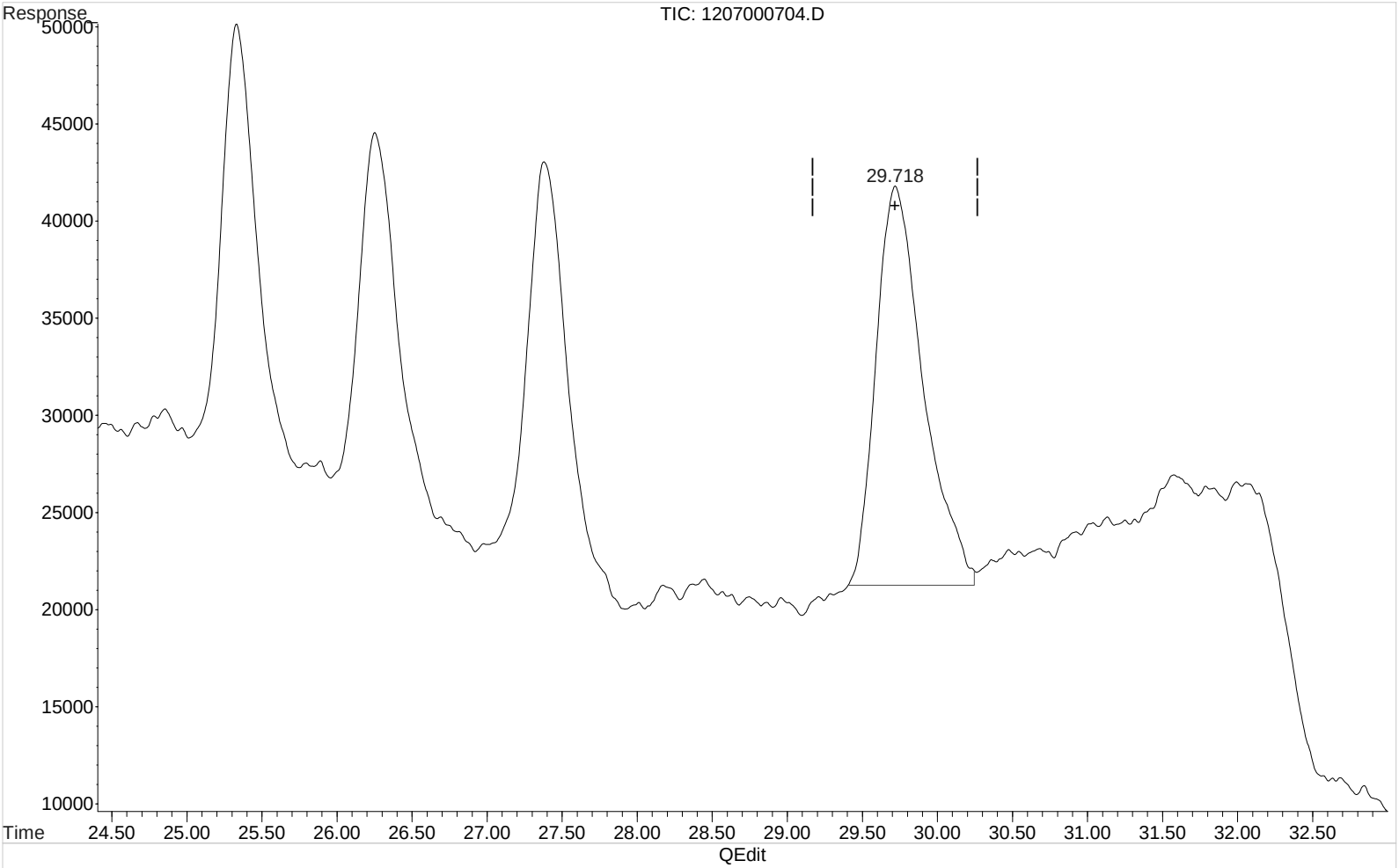
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(18) 1-Chloro-3-Nitrobenzene (S)

29.718min 0.000 ug/L

response 448530

Manual Integration:

Before

12/08/16

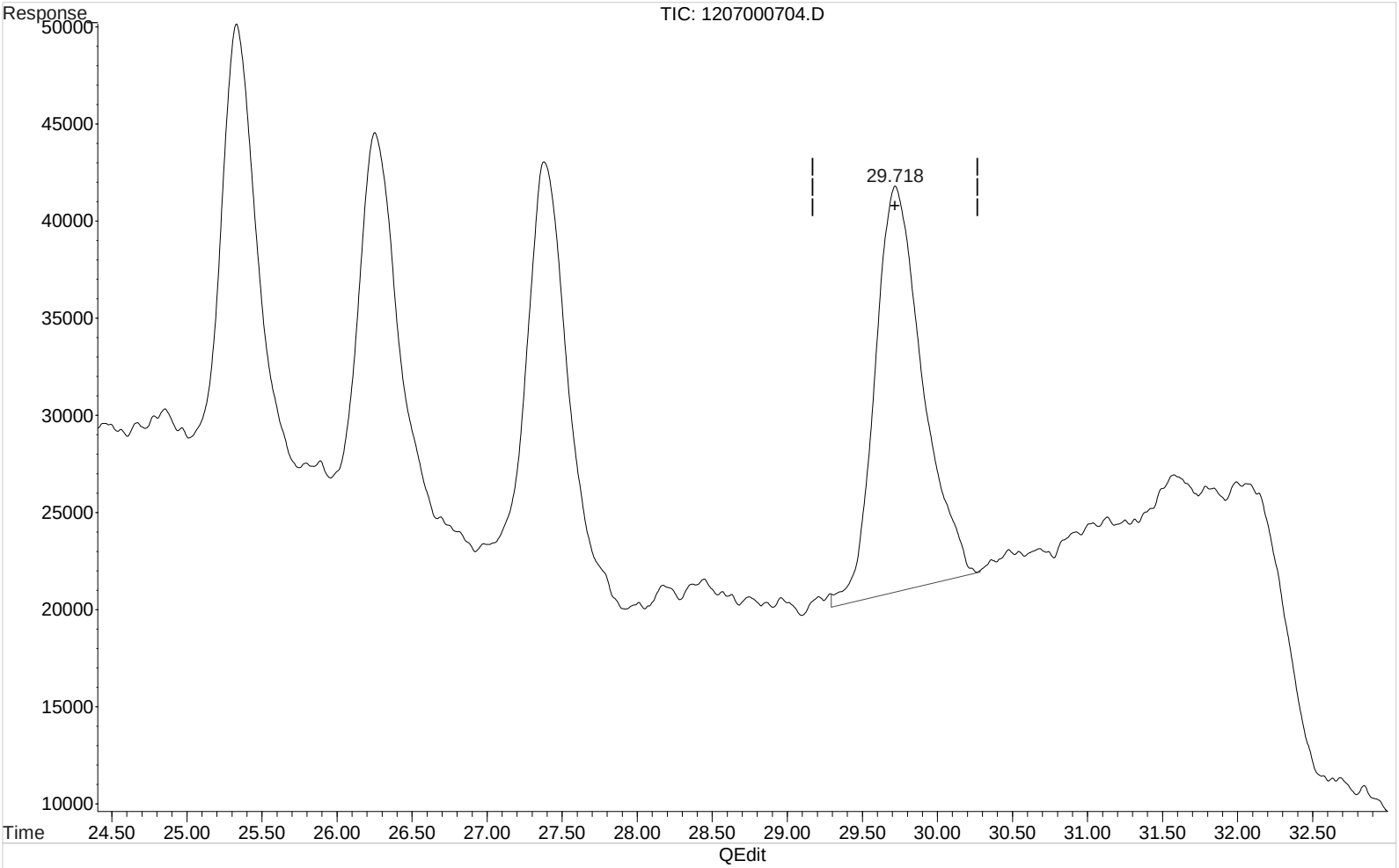
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(18) 1-Chloro-3-Nitrobenzene (S)

29.718min 0.000 ug/L m

response 461332

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)

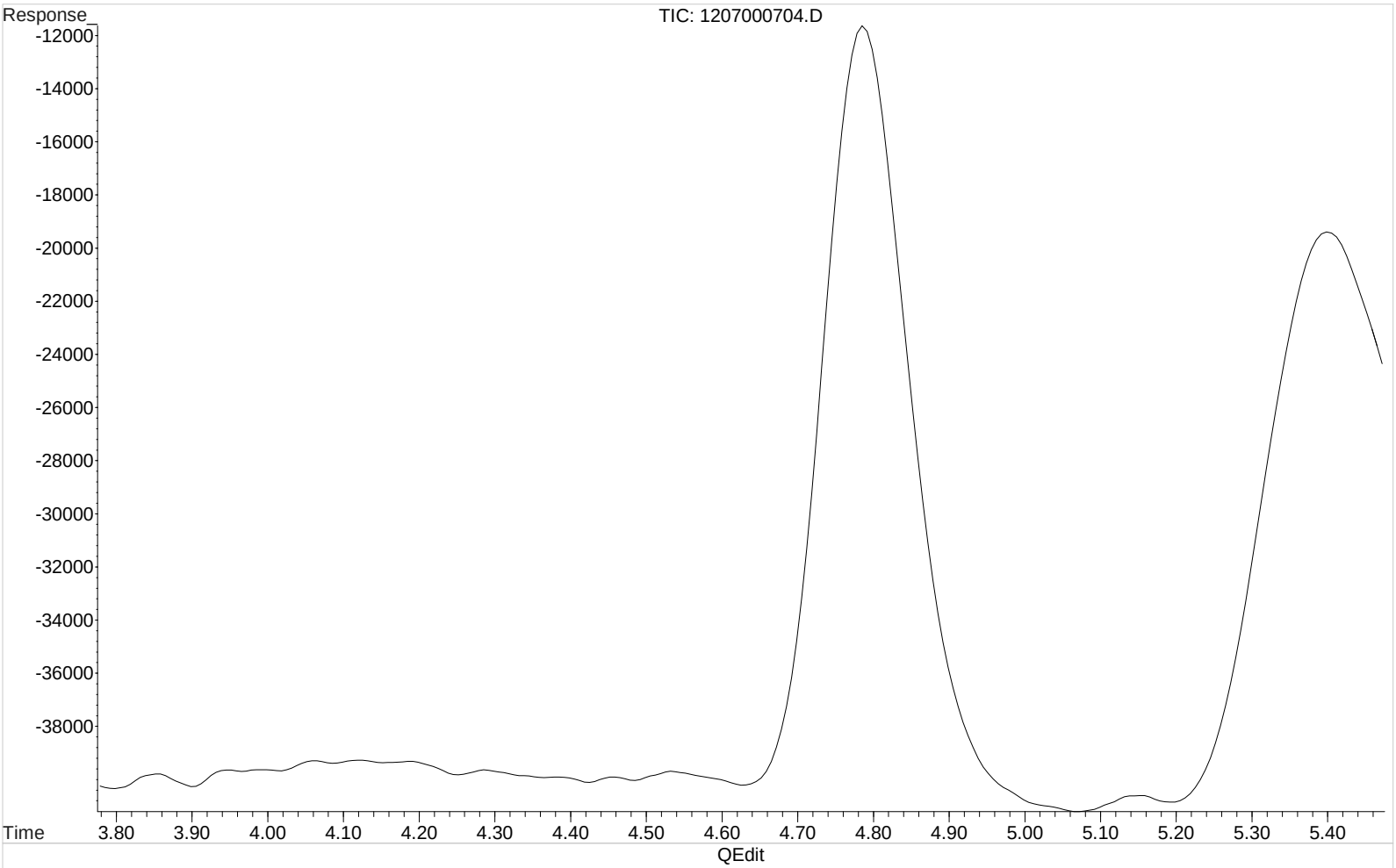
/08/16

/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(2) HMX (T)

4.625min 0.000 ug/L

response 0

Manual Integration:

Before

12/08/16

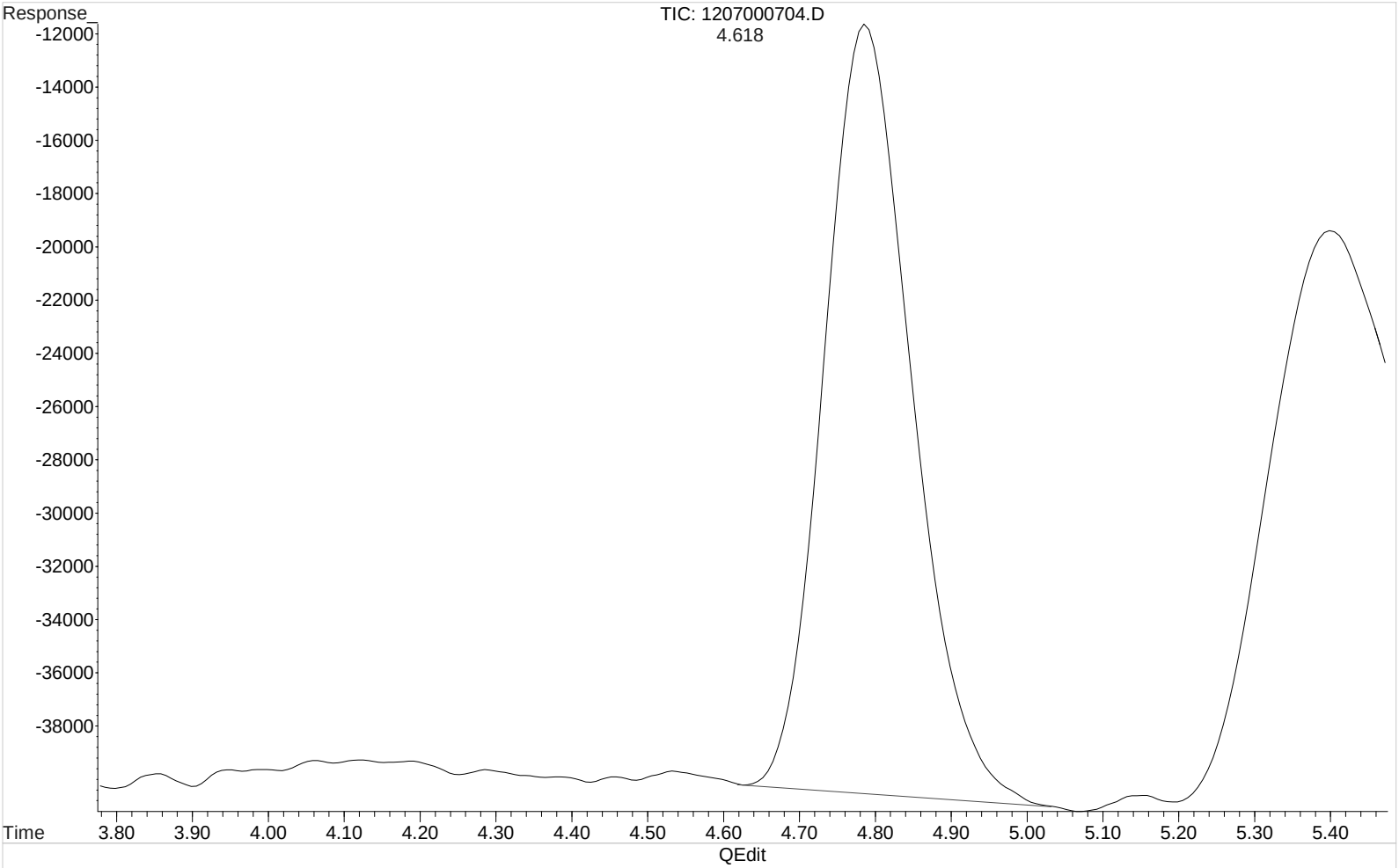
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(2) HMX (T)

4.618min 0.000 ug/L m

response 232698

Manual Integration:

After

BLC

12/08/16

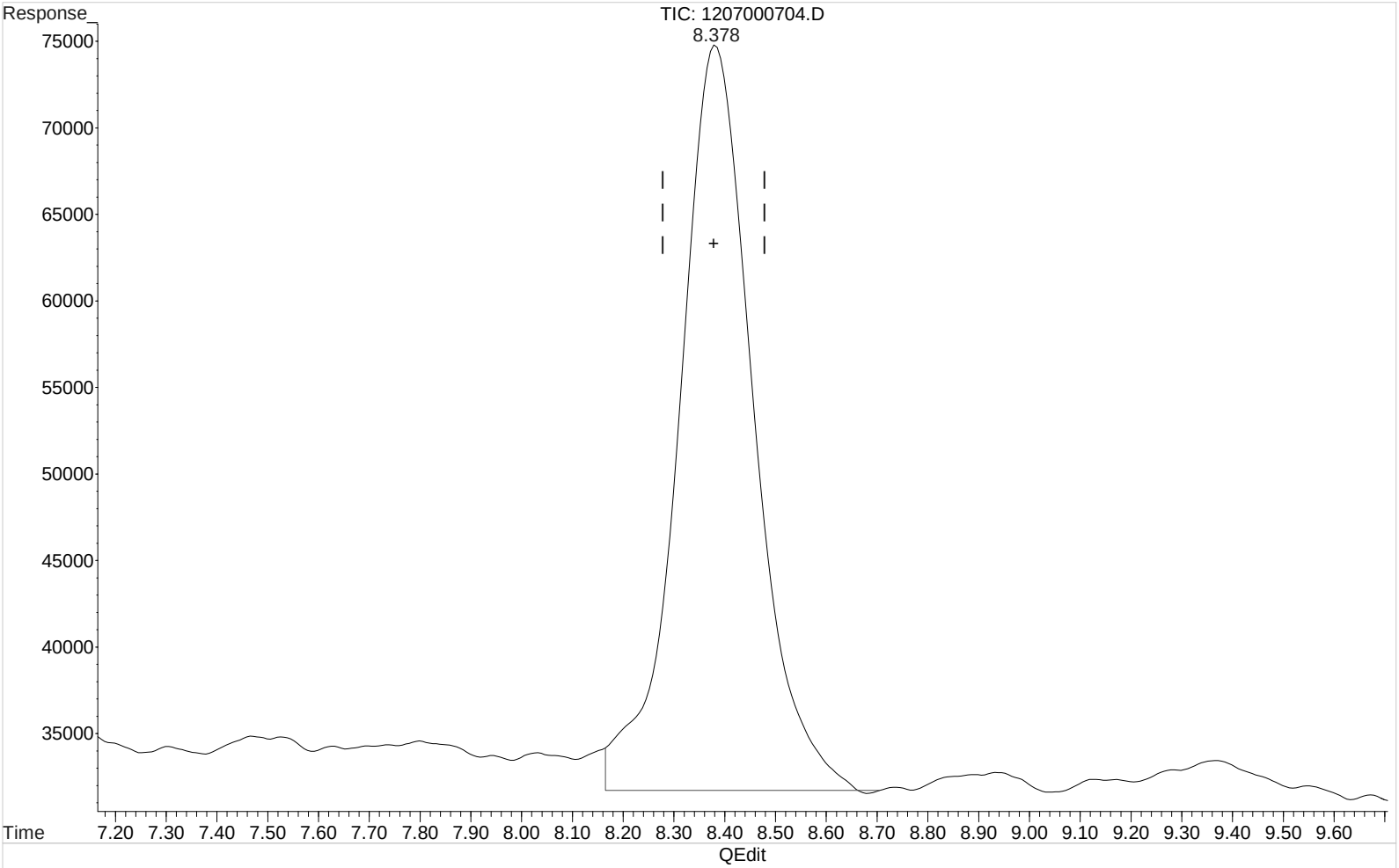
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(4) RDX (T)

8.378min 0.000 ug/L

response 440014

Manual Integration:

Before

12/08/16

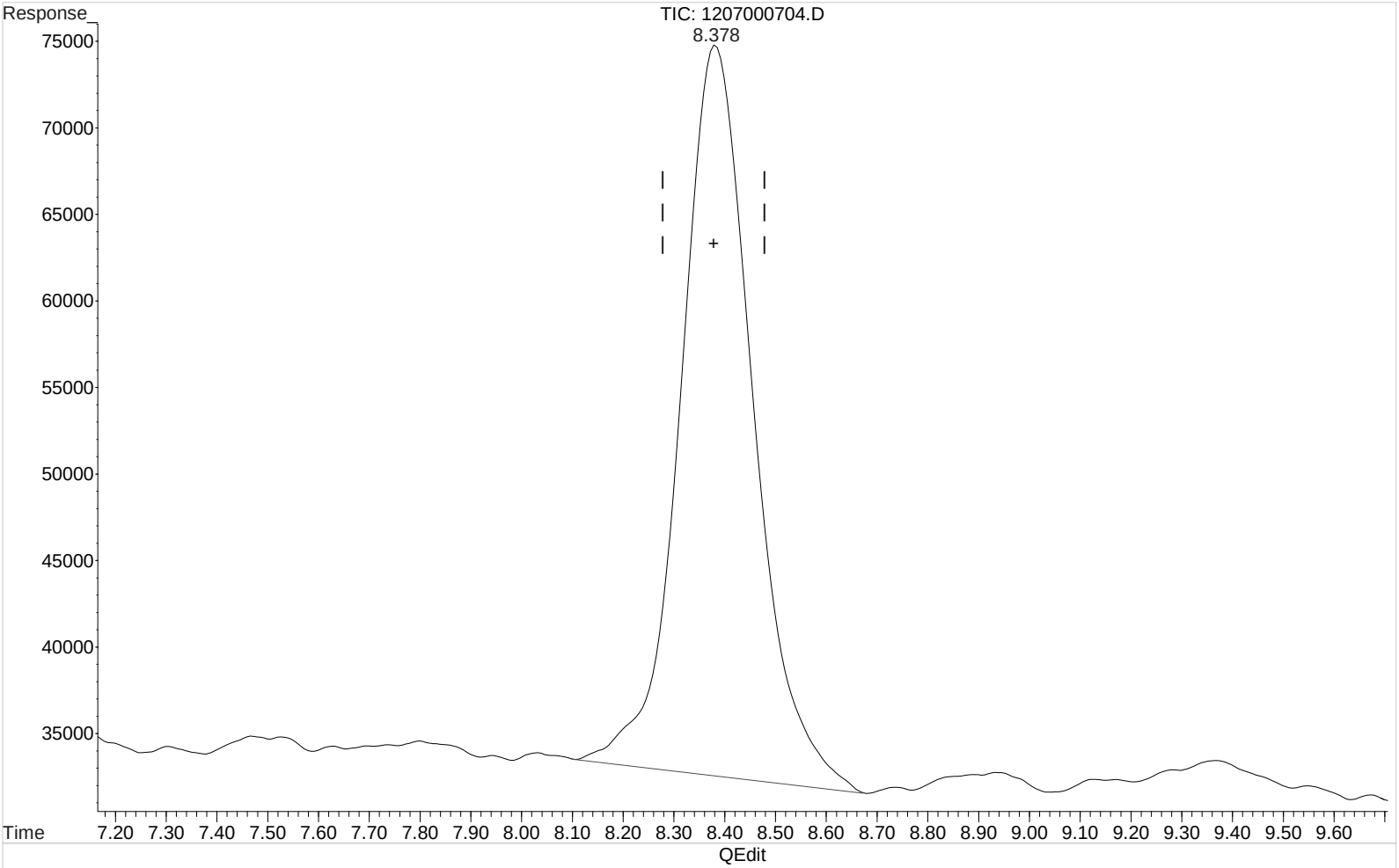
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(4) RDX (T)

8.378min 0.000 ug/L m

response 420328

Manual Integration:

After

BLC

12/08/16

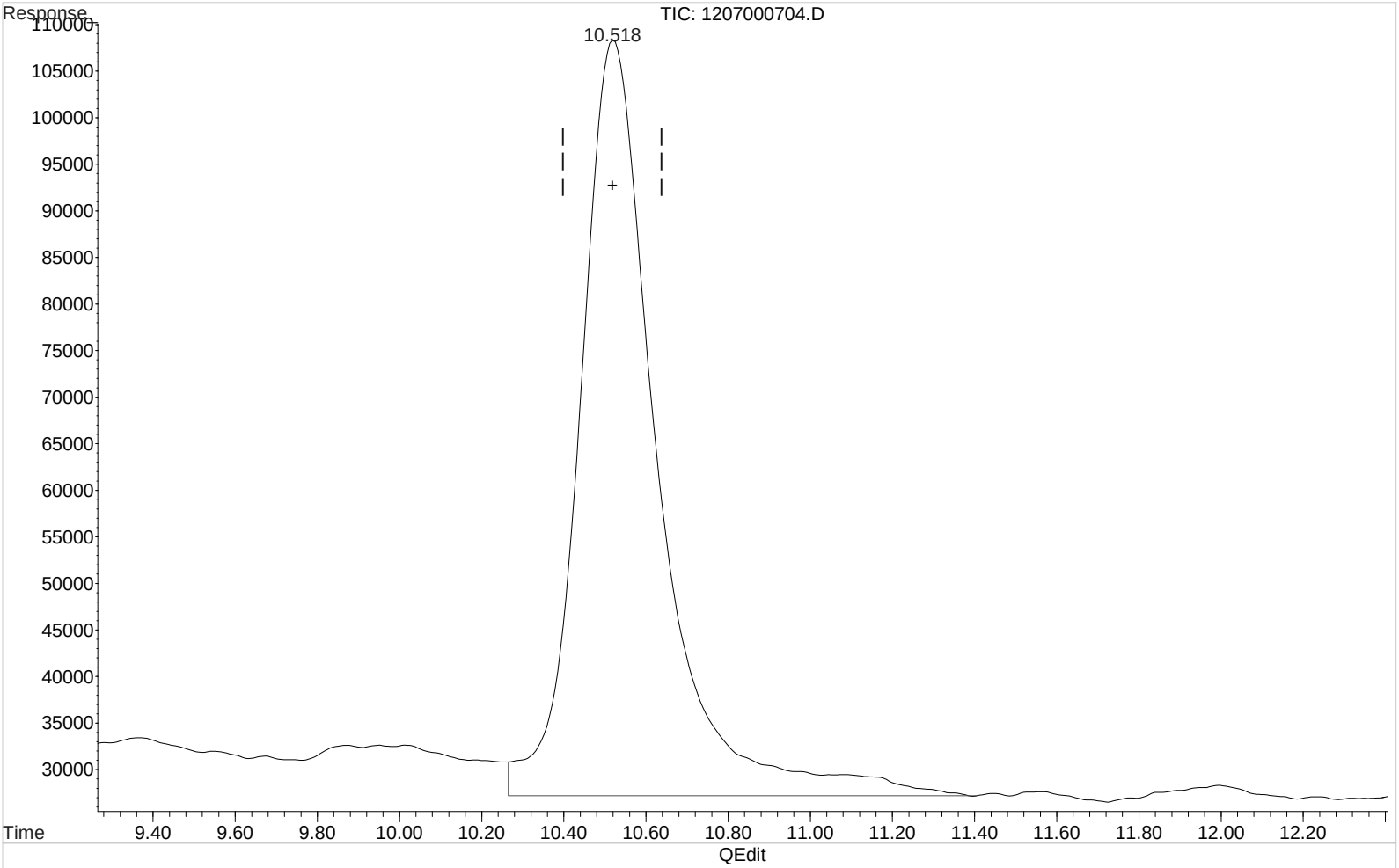
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(5) 1,3,5-TNB (T)

10.518min 0.000 ug/L

response 1075873

Manual Integration:

Before

12/08/16

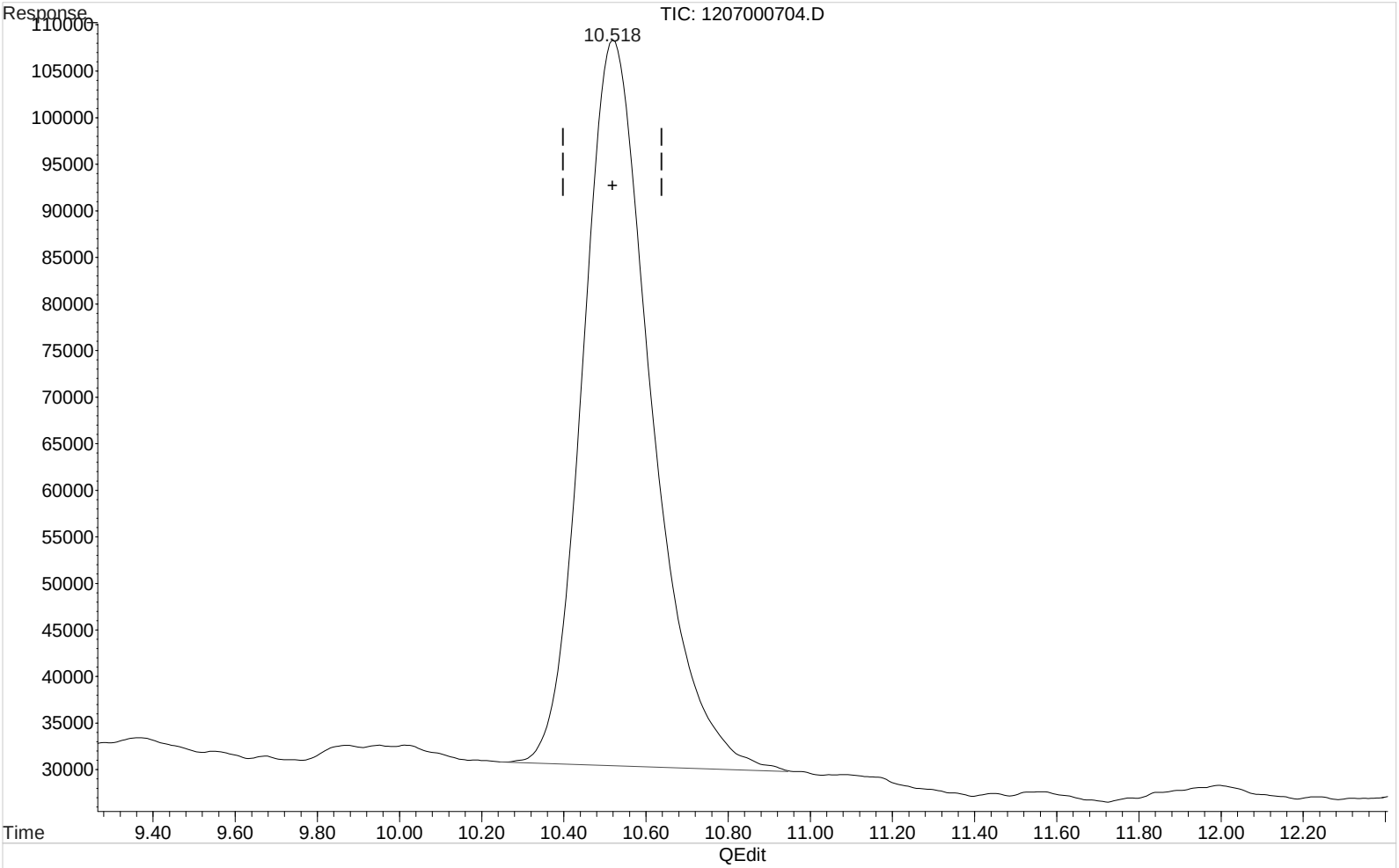
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(5) 1,3,5-TNB (T)

10.518min 0.000 ug/L m

response 908690

Manual Integration:

After

BLC

12/08/16

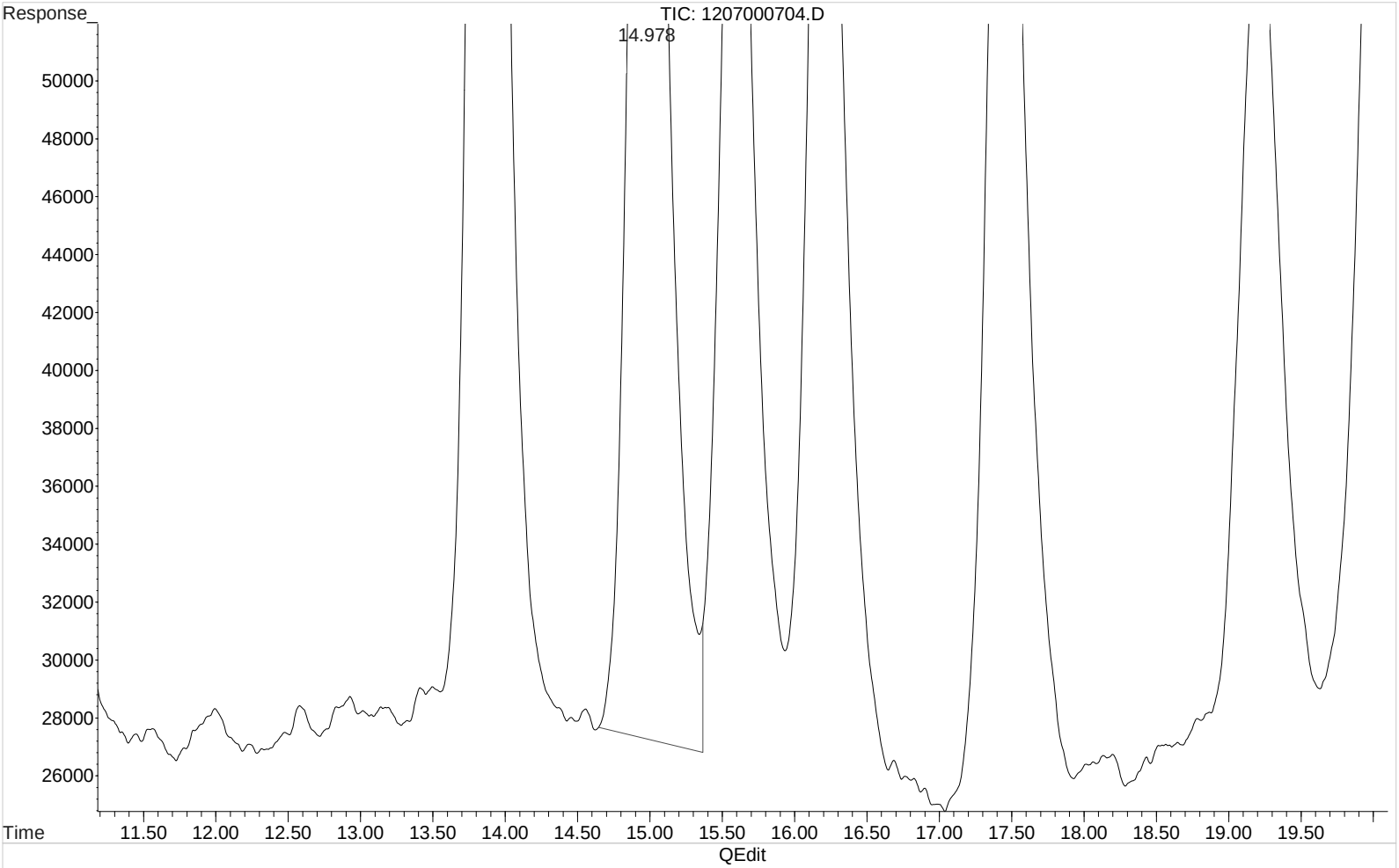
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(7) 3,5-Dinitroaniline (T)

14.978min 0.000 ug/L

response 975452

Manual Integration:

Before

12/08/16

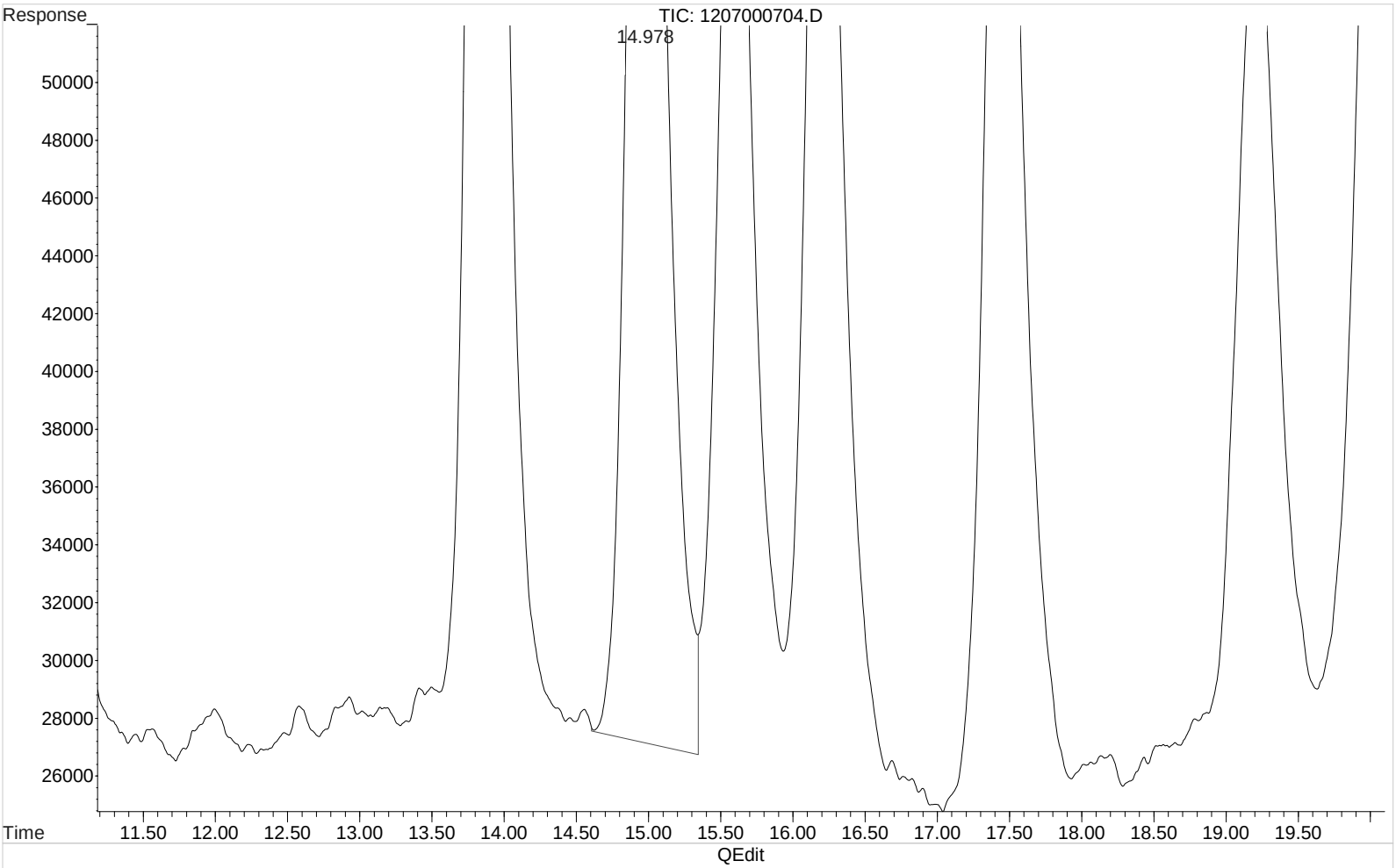
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(7) 3,5-Dinitroaniline (T)

14.978min 0.000 ug/L m

response 975768

Manual Integration:

After

BLC

12/08/16

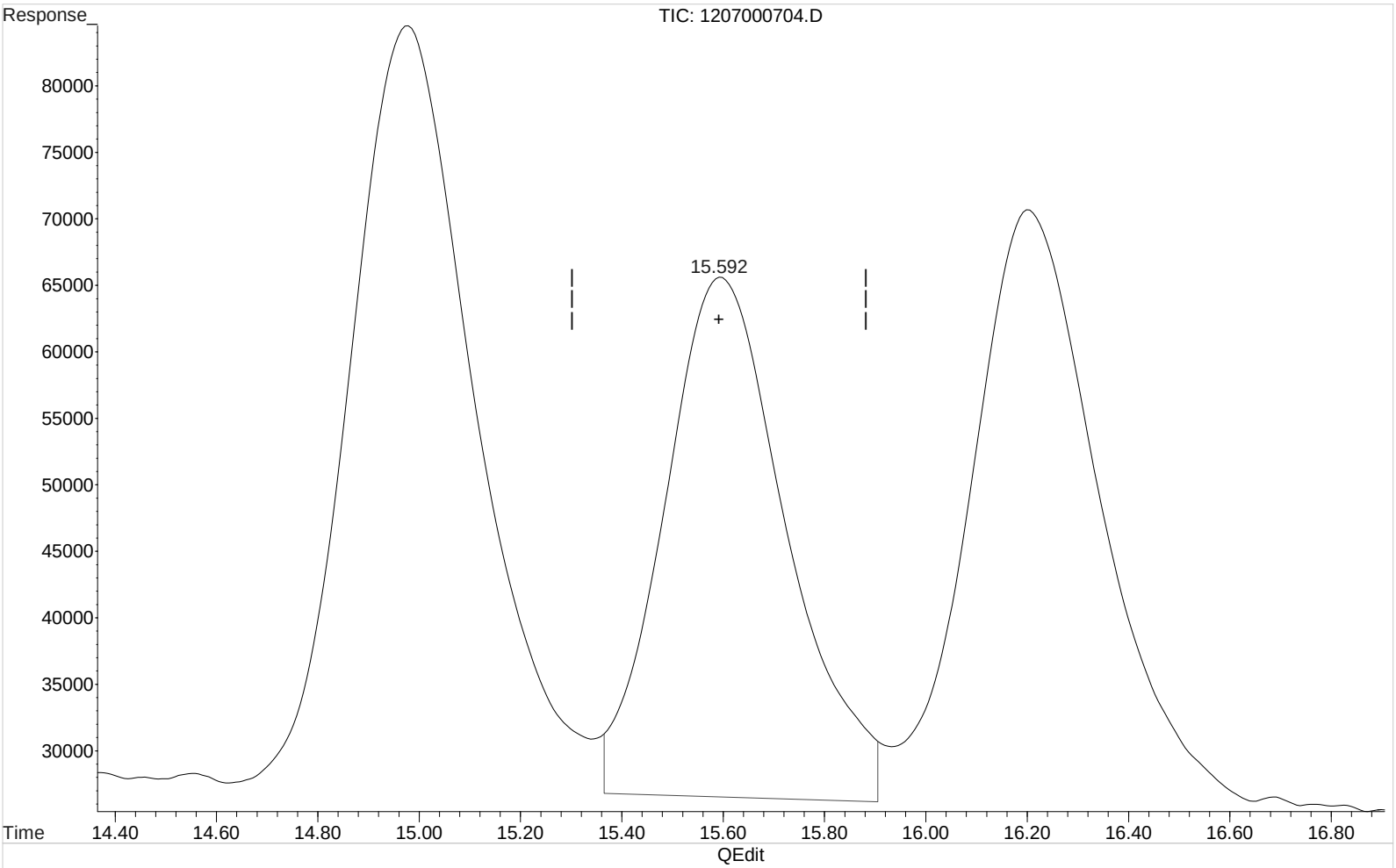
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.592min 0.000 ug/L

response 653235

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

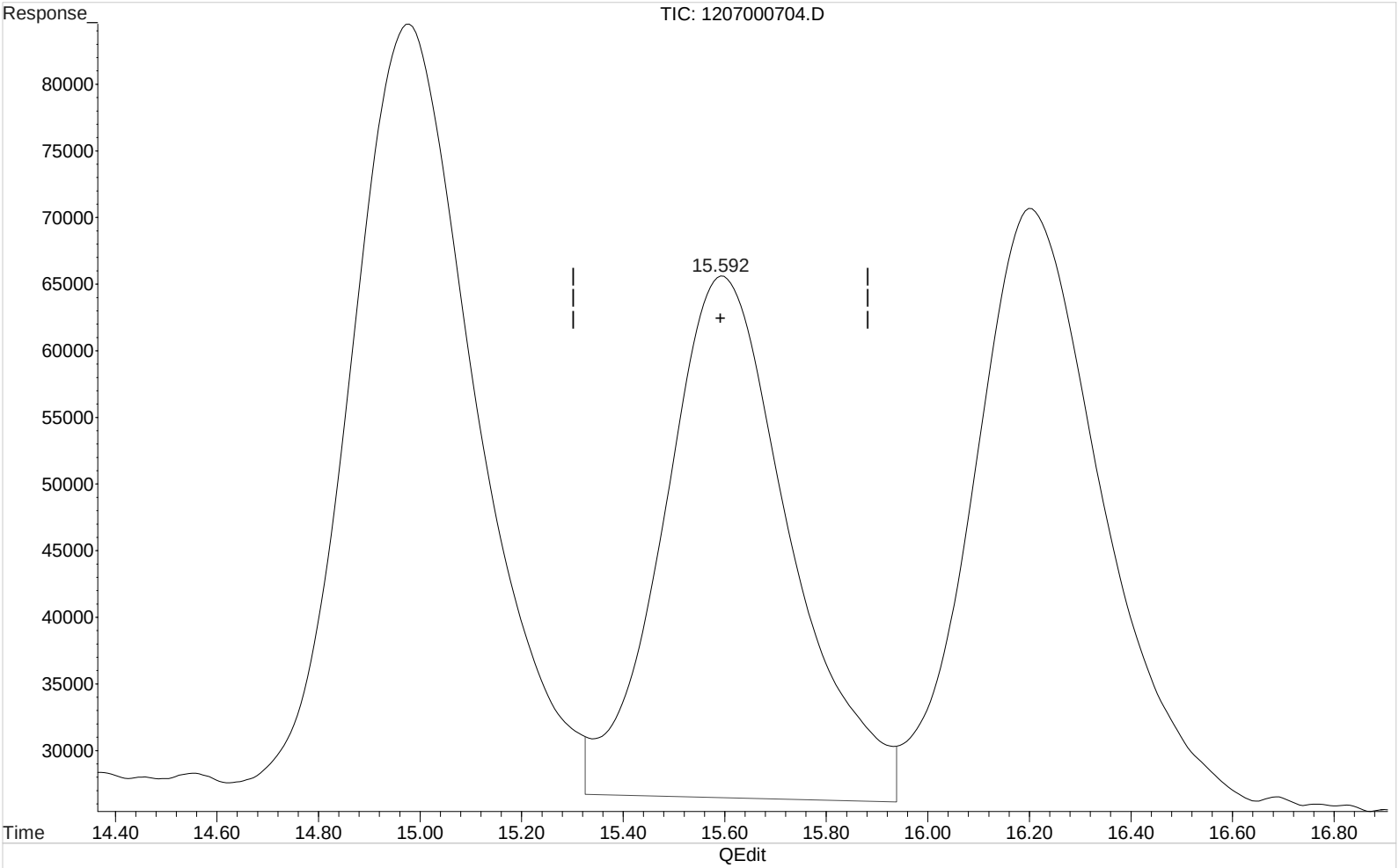
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.592min 0.000 ug/L m

response 673809

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)

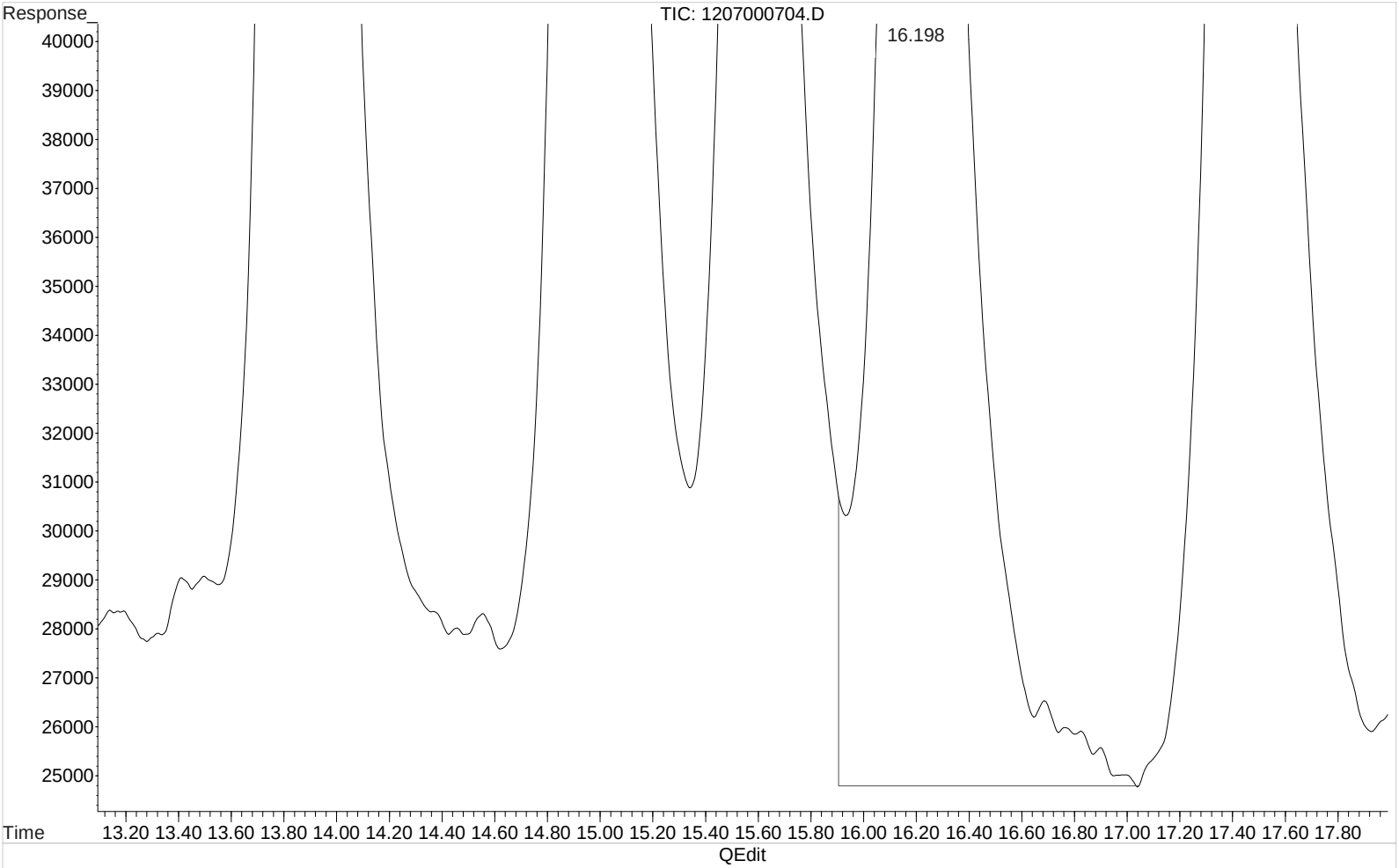
/08/16

/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(9) Nitrobenzene (T)

16.198min 0.000 ug/L

response 865148

Manual Integration:

Before

12/08/16

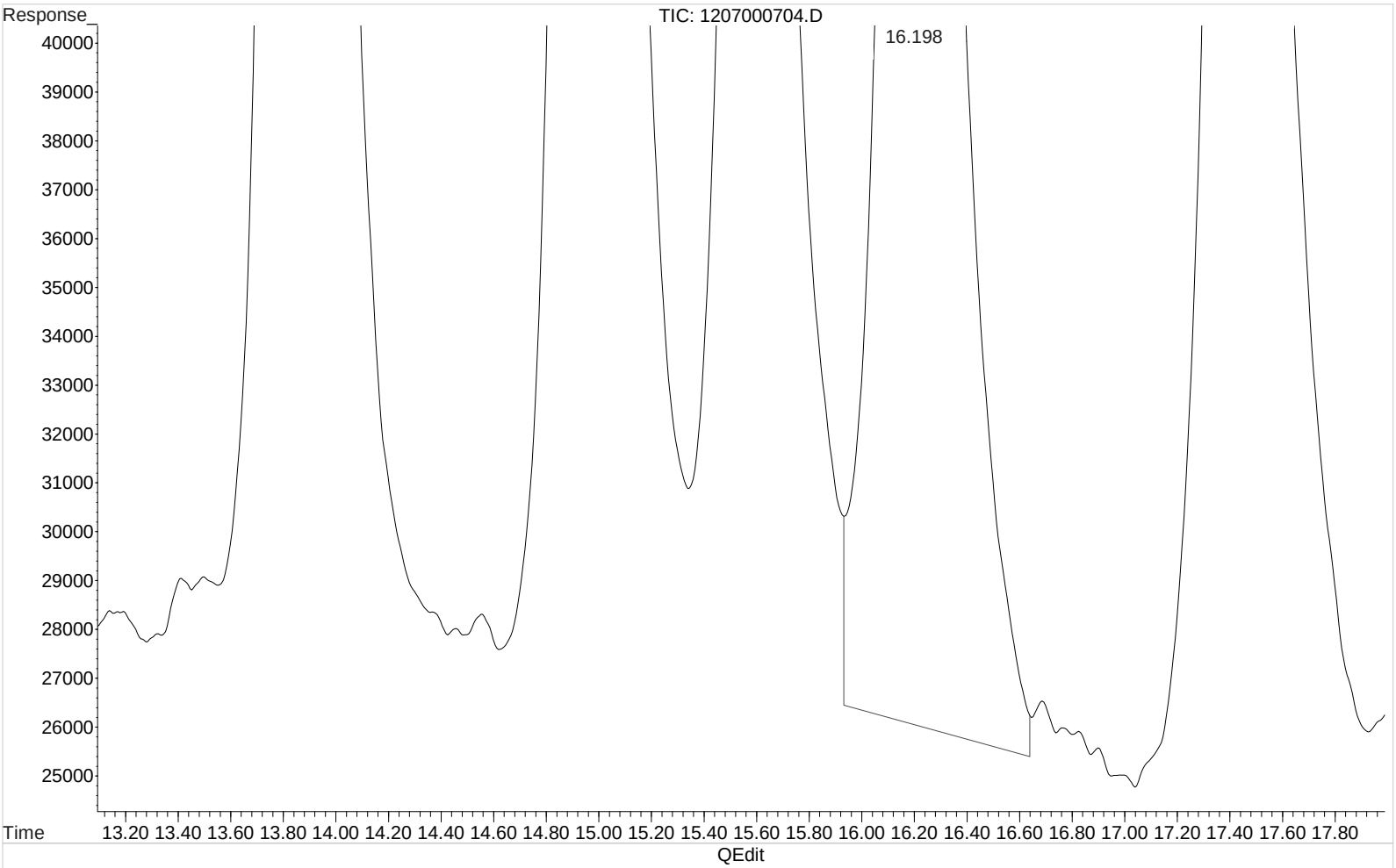
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000704.D Vial: 3
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:12:57 Operator: AE
Sample : ICAL 20 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:23:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:23:08 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(9) Nitrobenzene (T)

16.198min 0.000 ug/L m

response 787874

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:09 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
18)	S	1-Chloro-3-Nitrobenzene	29.700	1102787	47.809	ug/L	m
		Target Compounds					
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	4.787	592400	50.916	ug/L	m
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	8.380	978940	46.580	ug/L	m
5)	T	1,3,5-TNB	10.520	2272781	50.023	ug/L	
6)	T	1,3-DNB	13.860	3069012	48.773	ug/L	m
7)	T	3,5-Dinitroaniline	14.967	2382128	48.826	ug/L	m
8)	T	Tetryl	15.587	1676426	49.760	ug/L	m
9)	T	Nitrobenzene	16.200	1950750	49.519	ug/L	m
10)	T	2,4,6-TNT	17.447	2100866	52.688	ug/L	m
11)	T	4-Amino-2,6-DNT	19.200	1535717	57.134	ug/L	m
12)	T	2-Amino-4,6-DNT	20.034	2085917	43.852	ug/L	m
13)	T	2,6-DNT	21.760	1280625	NoCal	ug/L	m
14)	T	2,4-DNT	22.214	2955148	51.322	ug/L	m
15)	T	2-NT	25.327	912402	52.158	ug/L	m
16)	T	4-NT	26.254	806643	50.422	ug/L	m
17)	T	3-NT	27.380	982059	47.770	ug/L	m

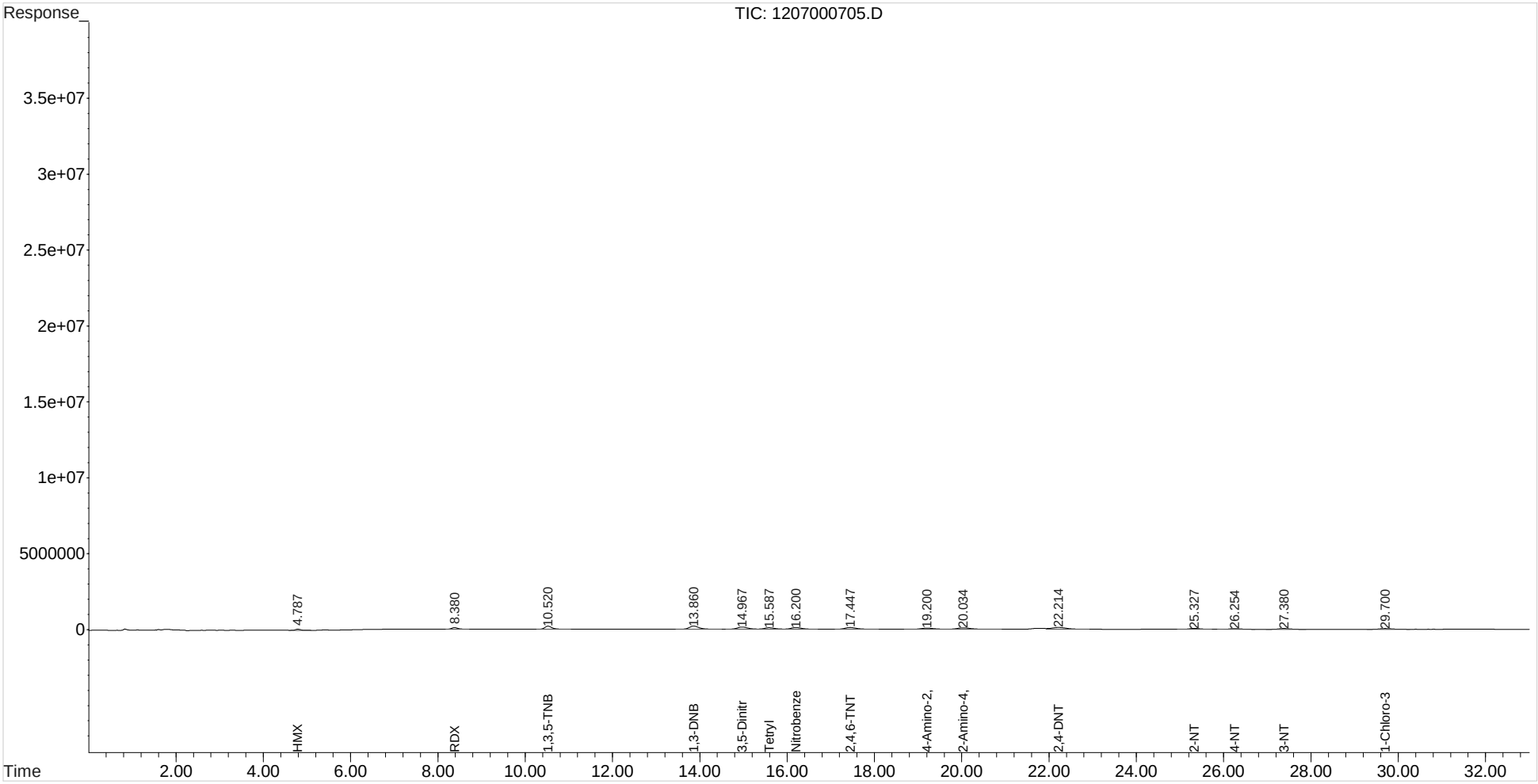
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:09 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

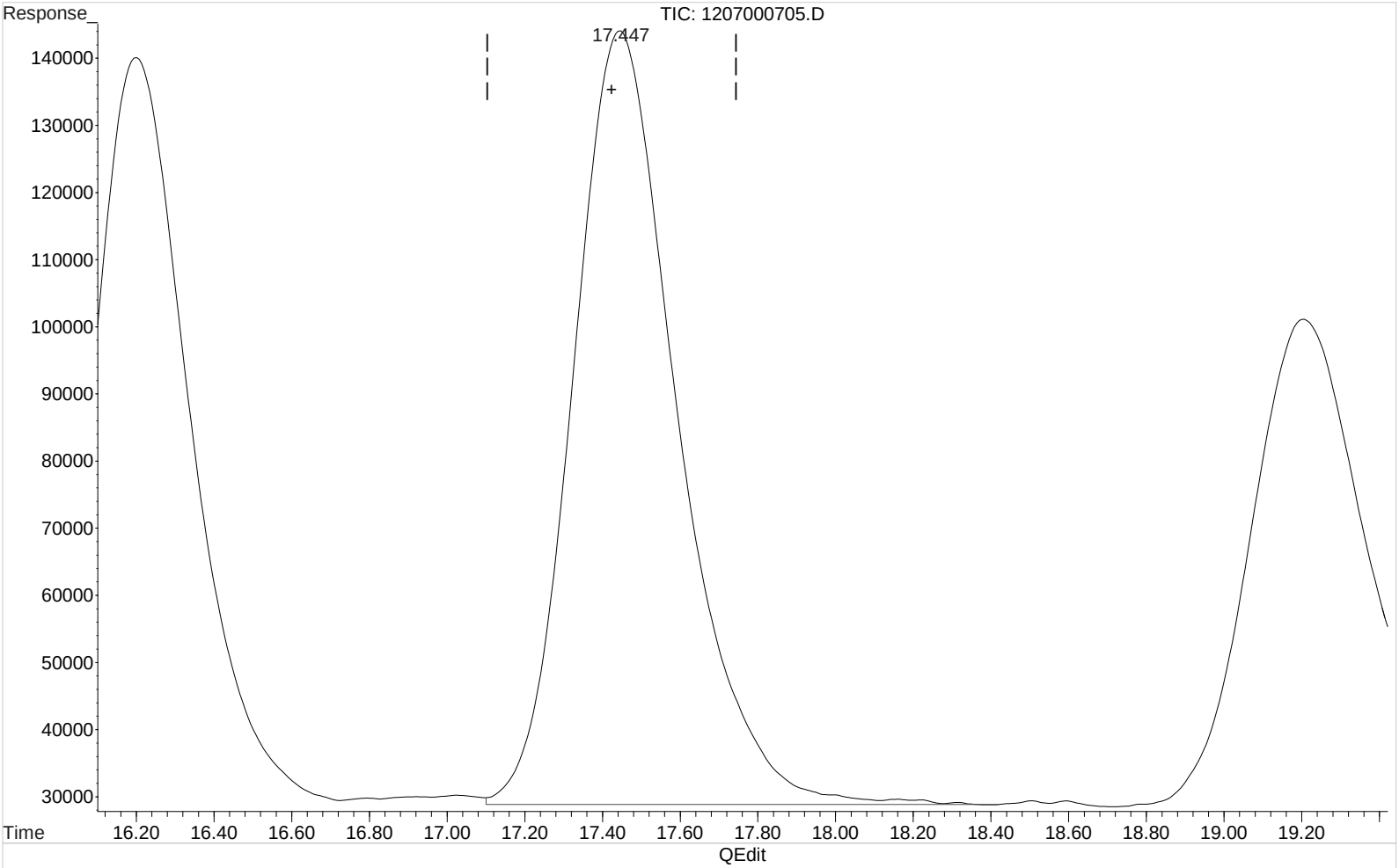


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(10) 2,4,6-TNT (T)

17.447min 54.187 ug/L

response 2160666

Manual Integration:

Before

12/08/16

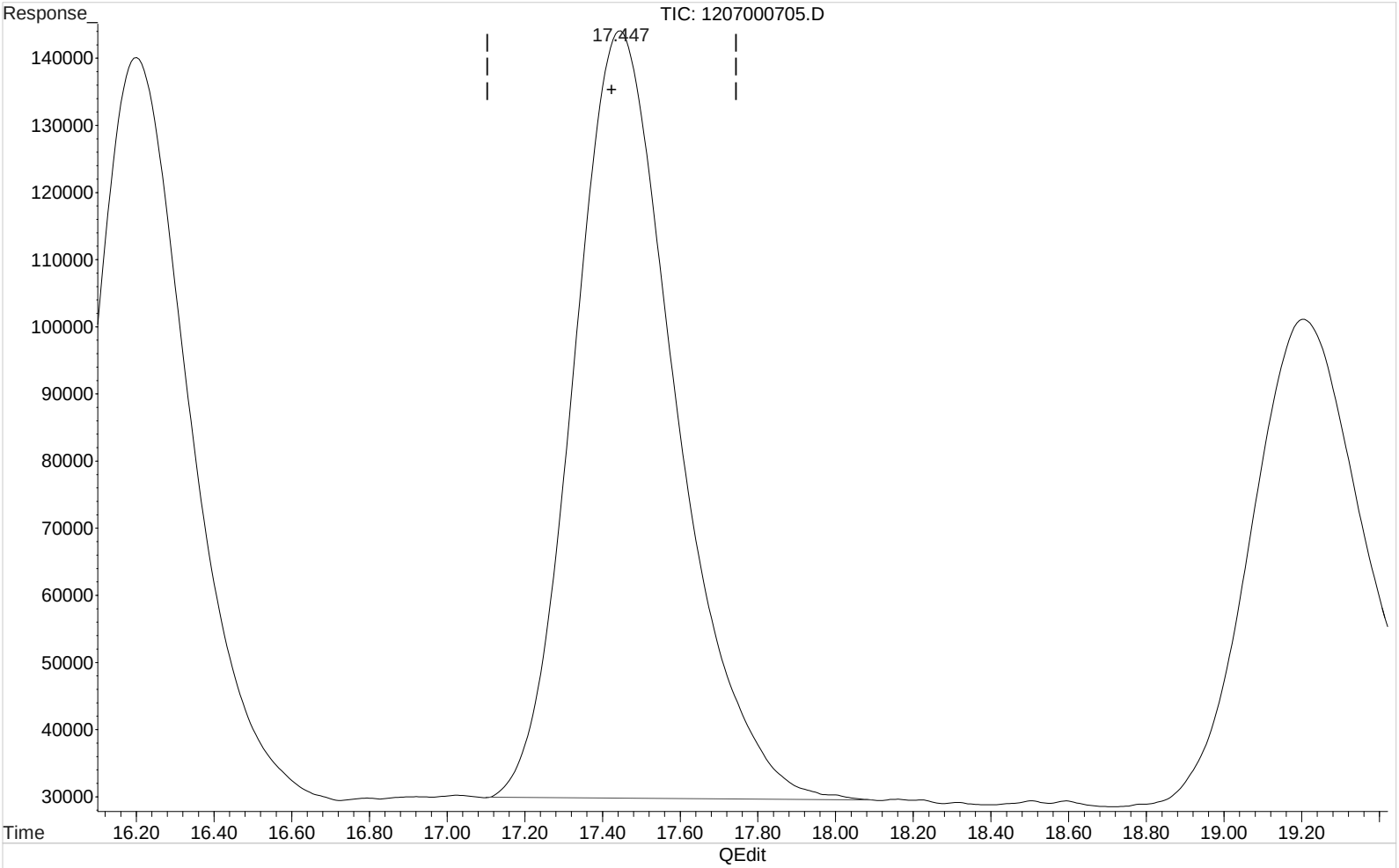
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(10) 2,4,6-TNT (T)

17.447min 52.688 ug/L m

response 2100866

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)

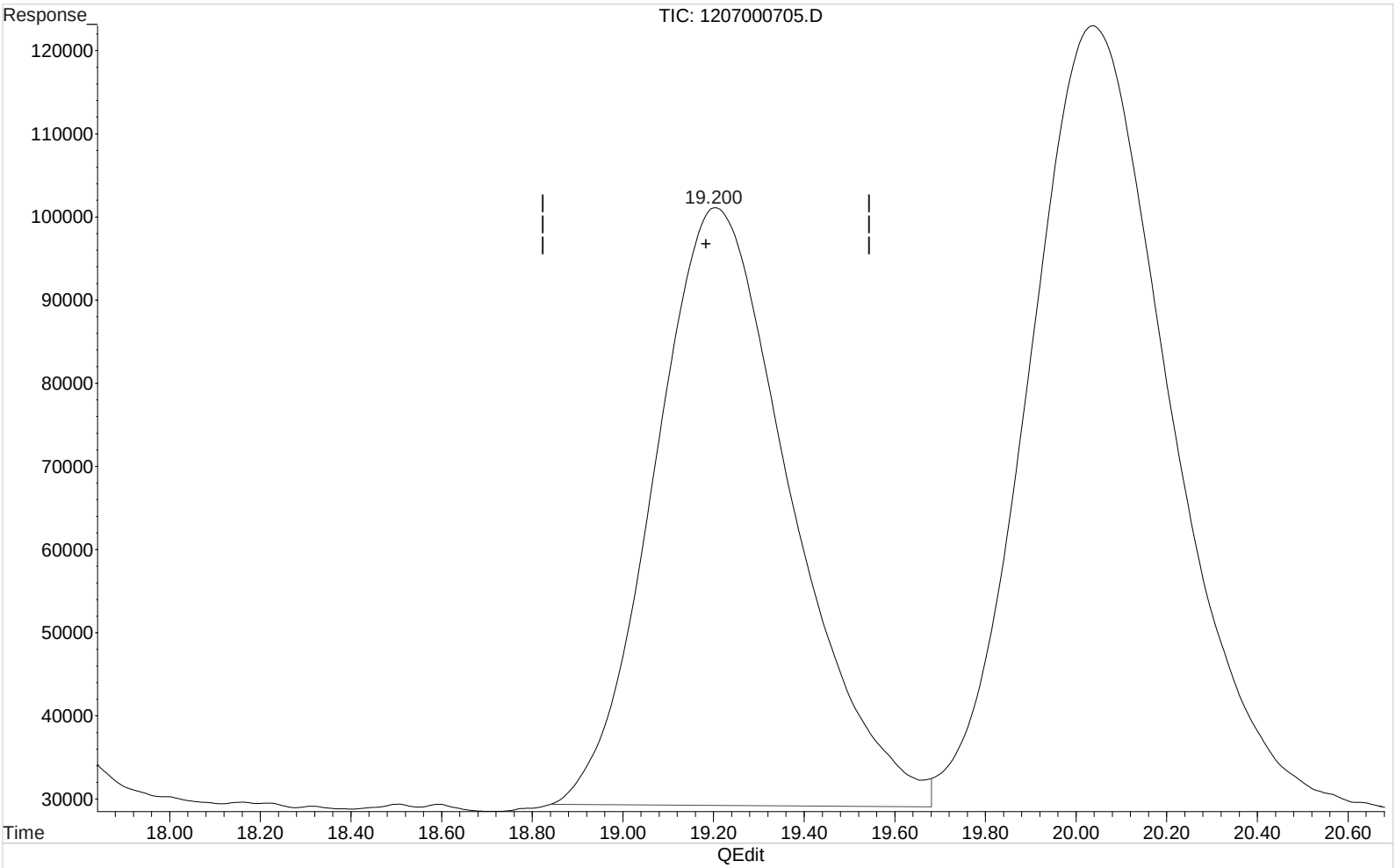
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(11) 4-Amino-2,6-DNT (T)

19.200min 55.799 ug/L

response 1499828

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

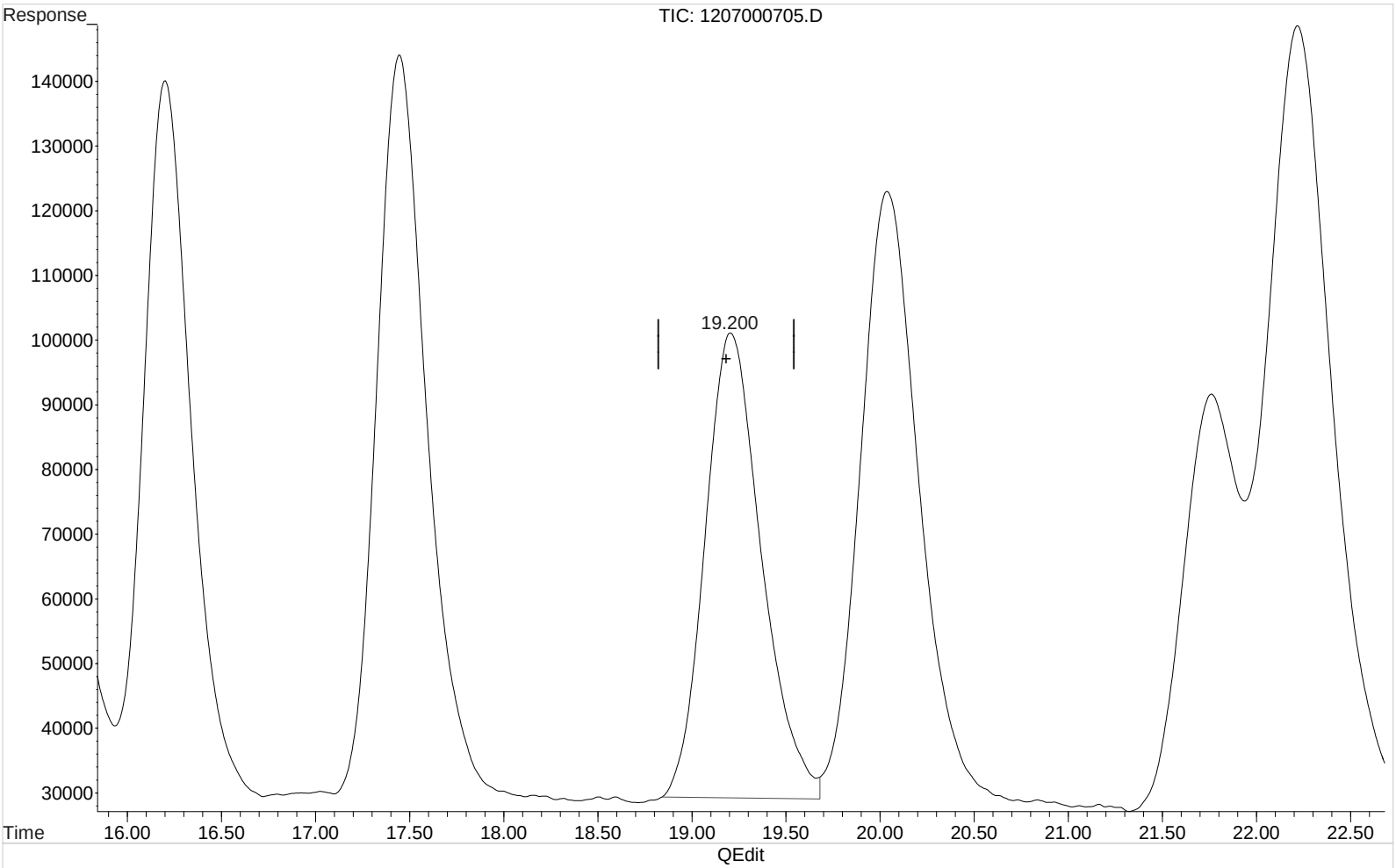
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(11) 4-Amino-2,6-DNT (T)

19.200min 55.799 ug/L

response 1499828

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

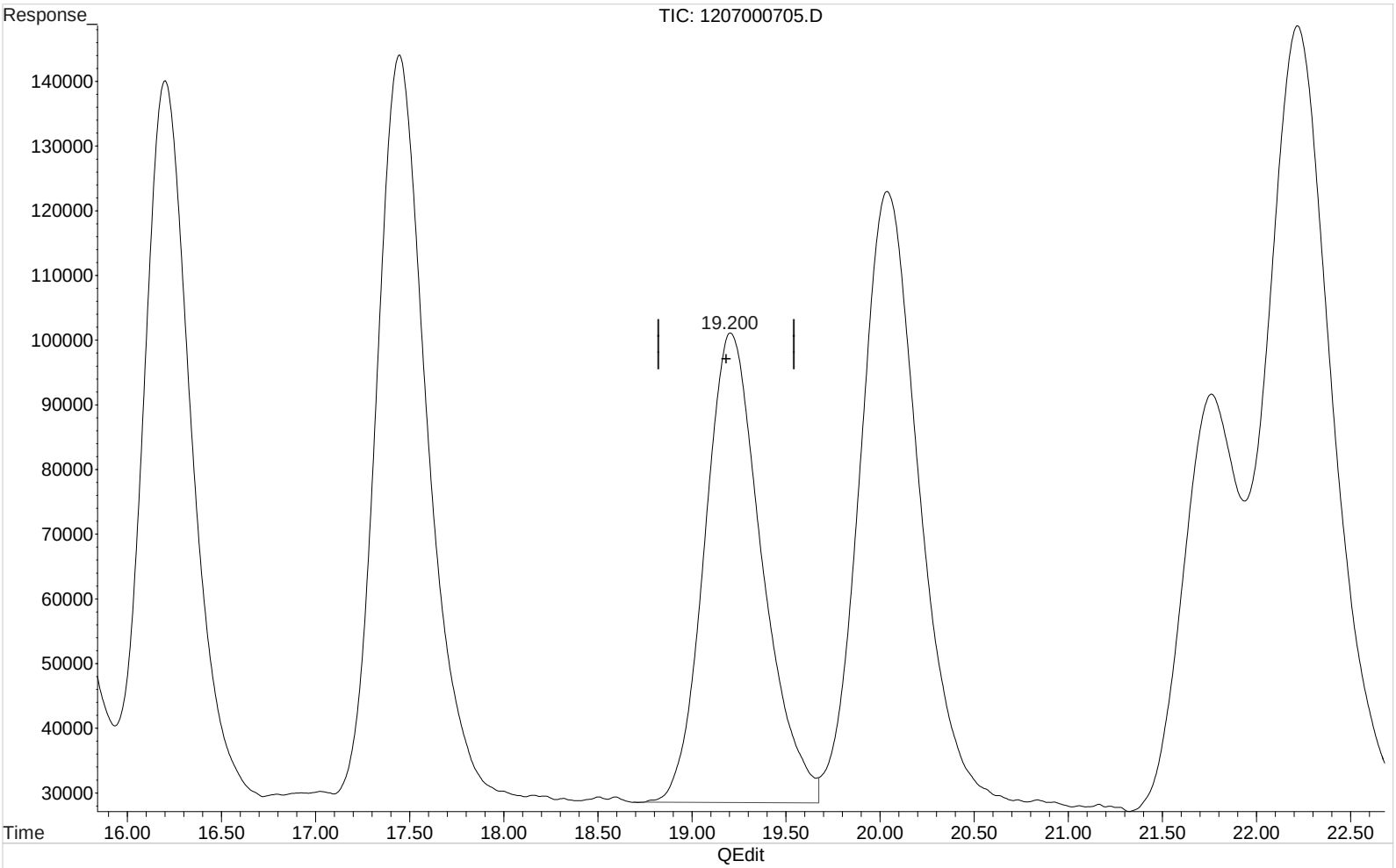
2/08/16

2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(11) 4-Amino-2,6-DNT (T)

19.200min 57.134 ug/L m

response 1535717

Manual Integration:

After

BLC

12/08/16

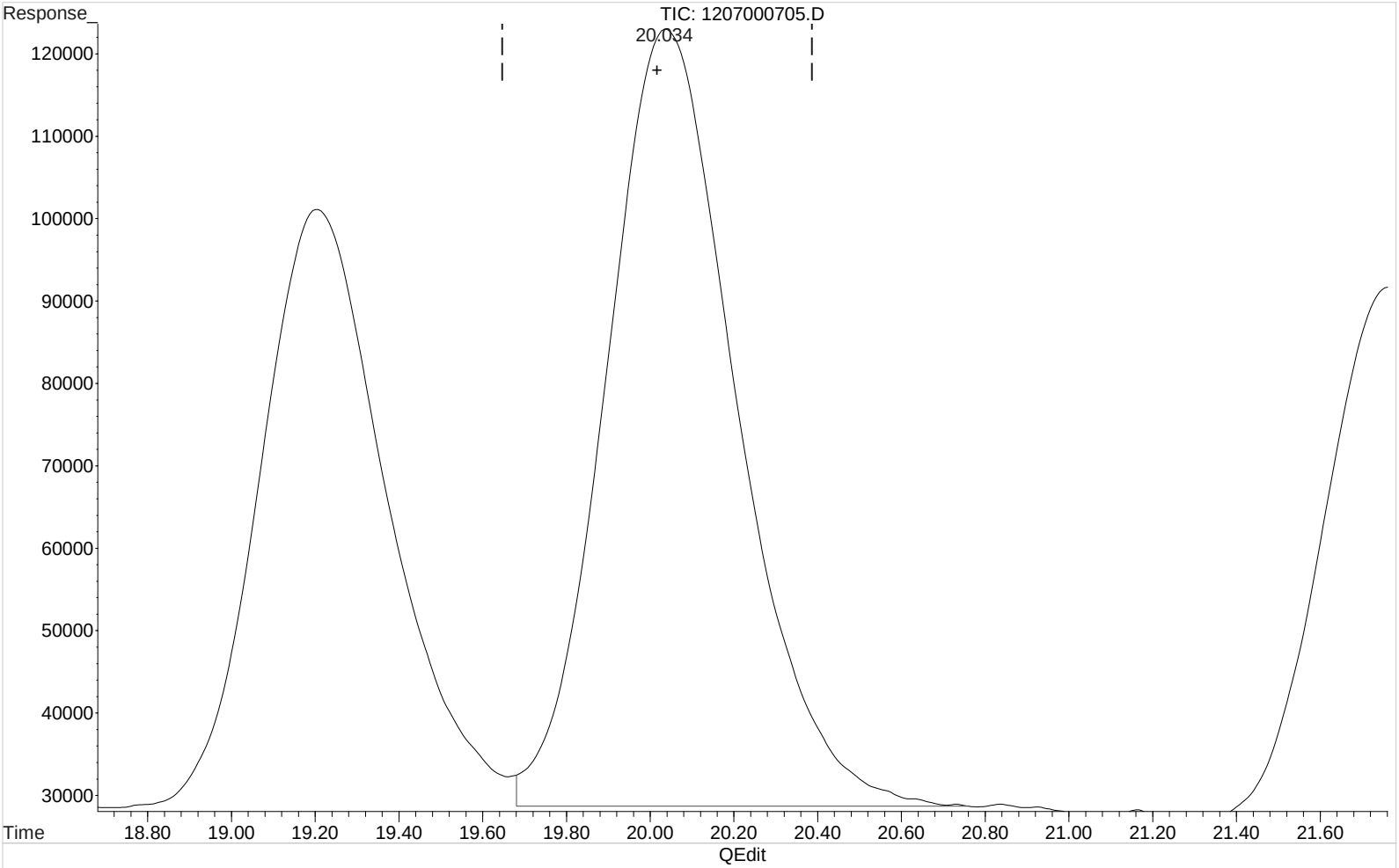
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(12) 2-Amino-4,6-DNT (T)

20.034min 43.047 ug/L

response 2047627

Manual Integration:

Before

12/08/16

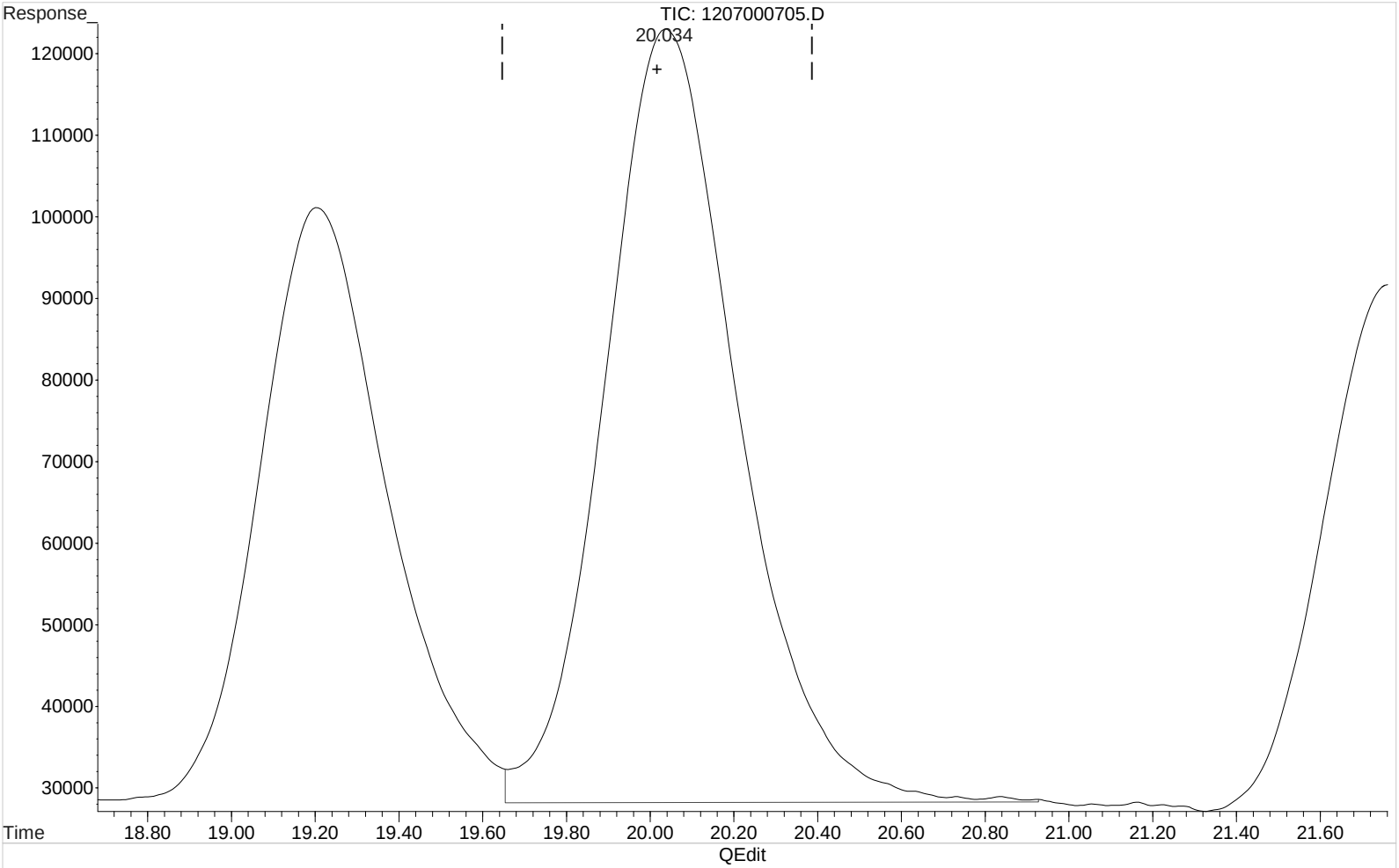
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(12) 2-Amino-4,6-DNT (T)

20.034min 43.890 ug/L m

response 2087710

Manual Integration:

Before

12/08/16

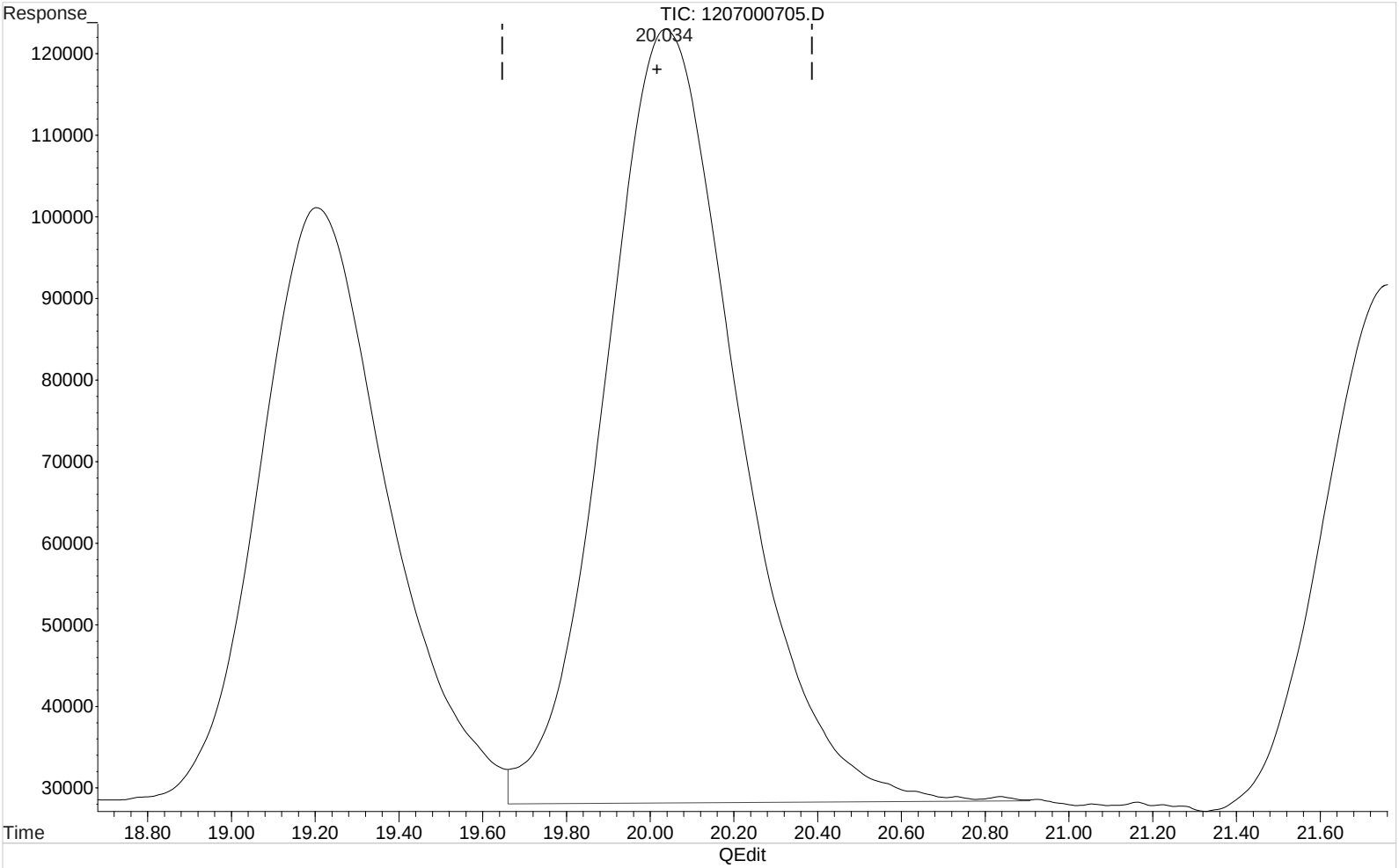
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(12) 2-Amino-4,6-DNT (T)

20.034min 43.852 ug/L m

response 2085917

Manual Integration:

After

BLC

12/08/16

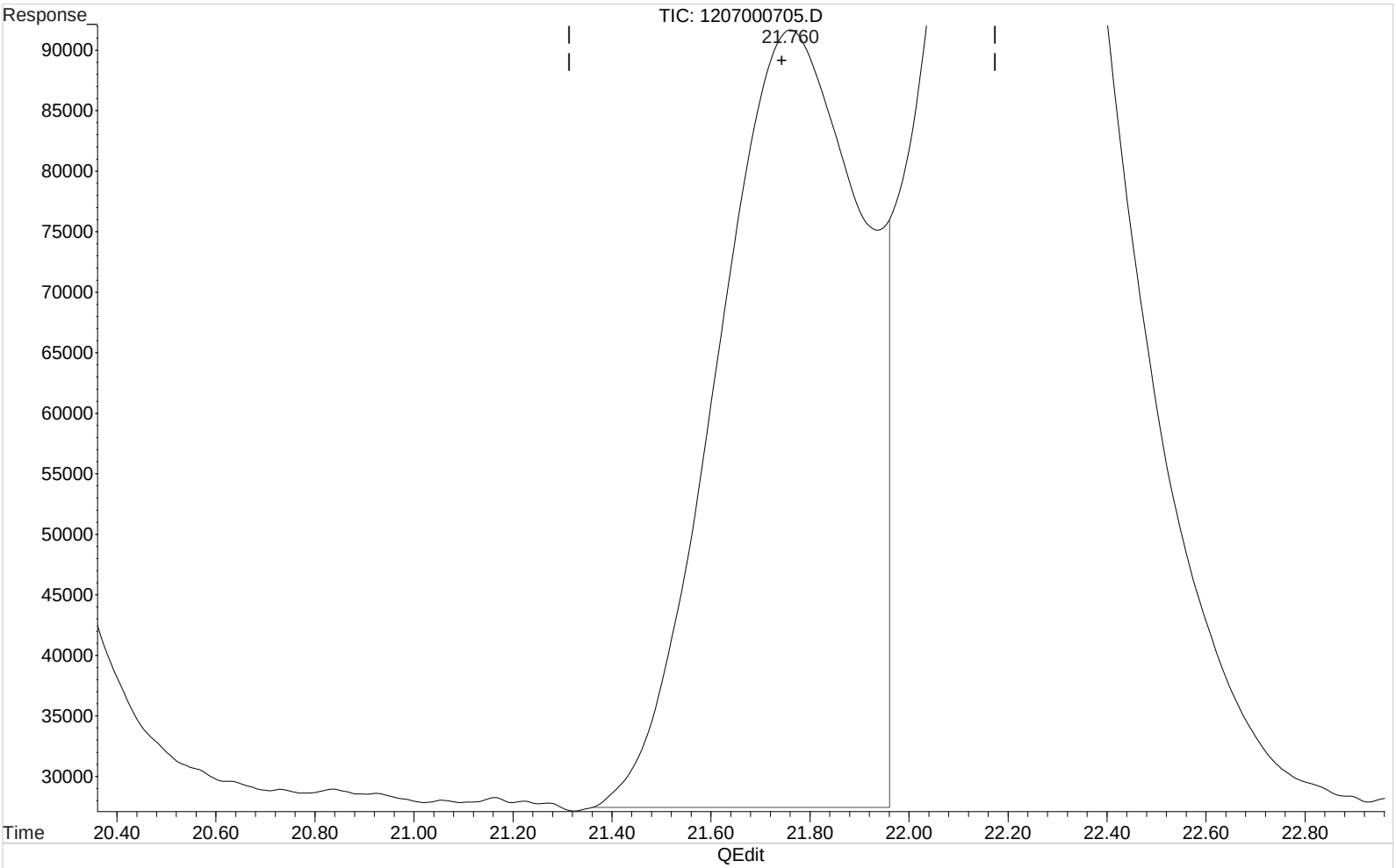
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.760min 0.000 ug/L

response 1327592

Manual Integration:

Before

12/08/16

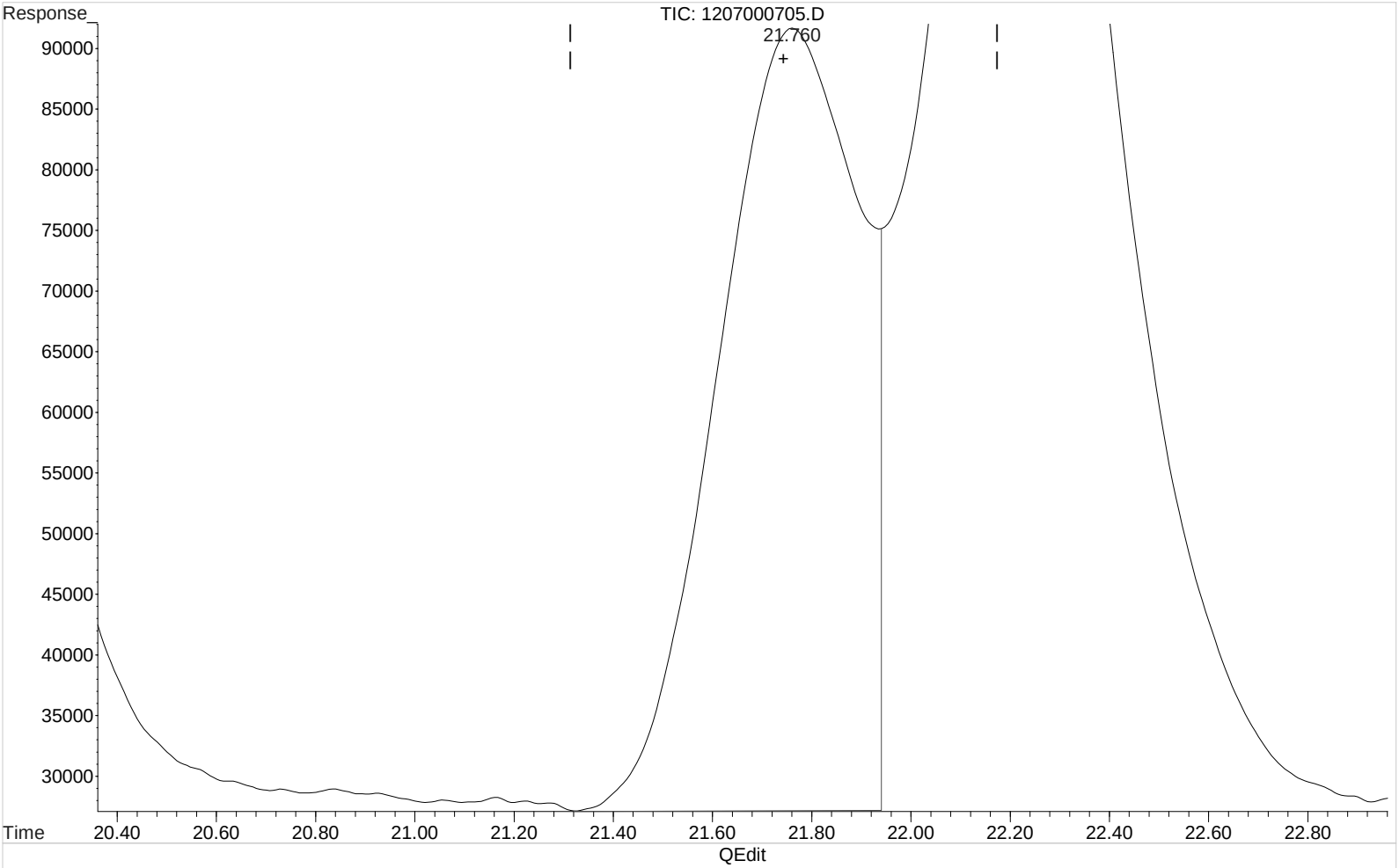
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.760min 0.000 ug/L m

response 1280625

Manual Integration:

After

BLC

12/08/16

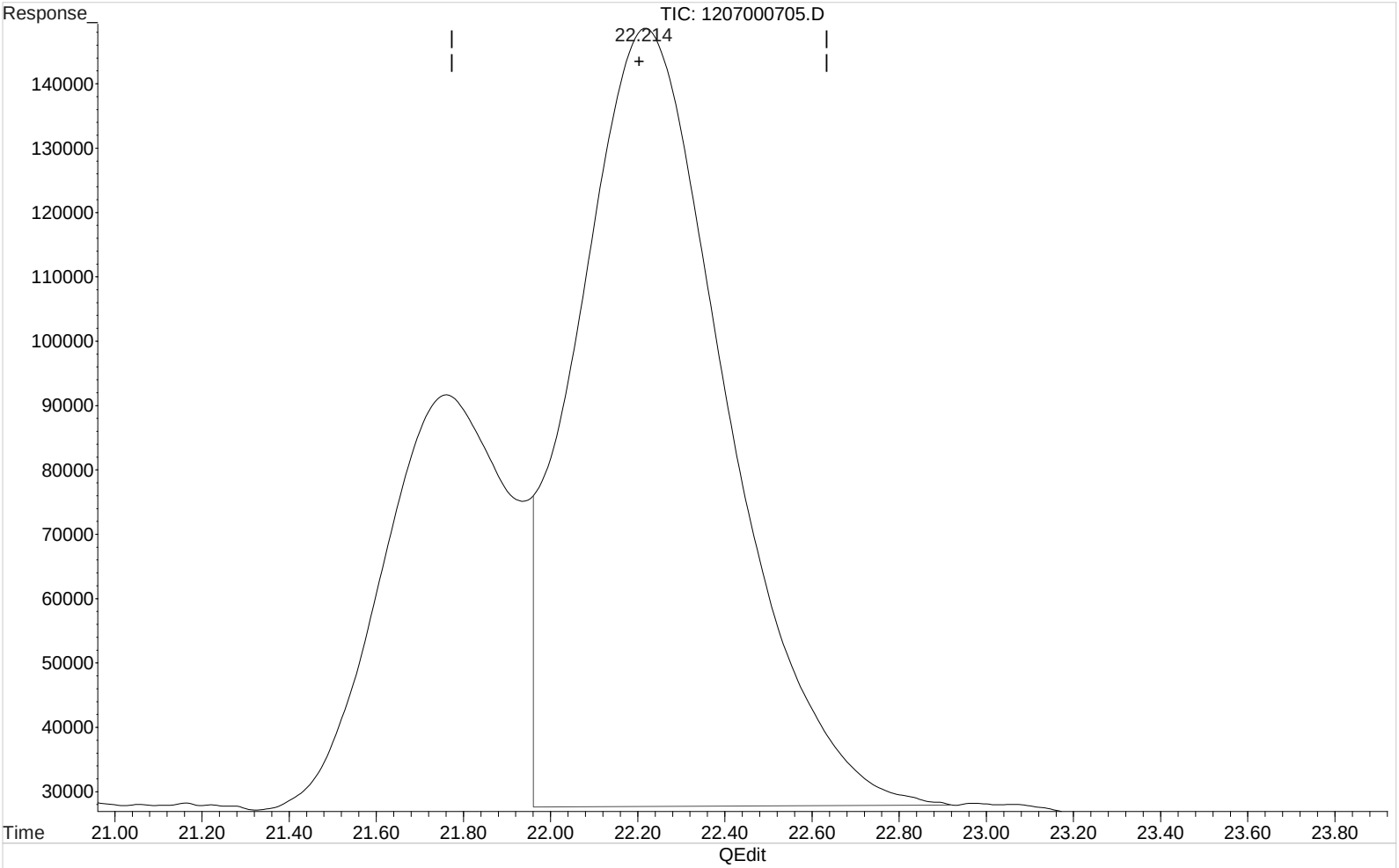
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.214min 50.242 ug/L

response 2892987

Manual Integration:

Before

12/08/16

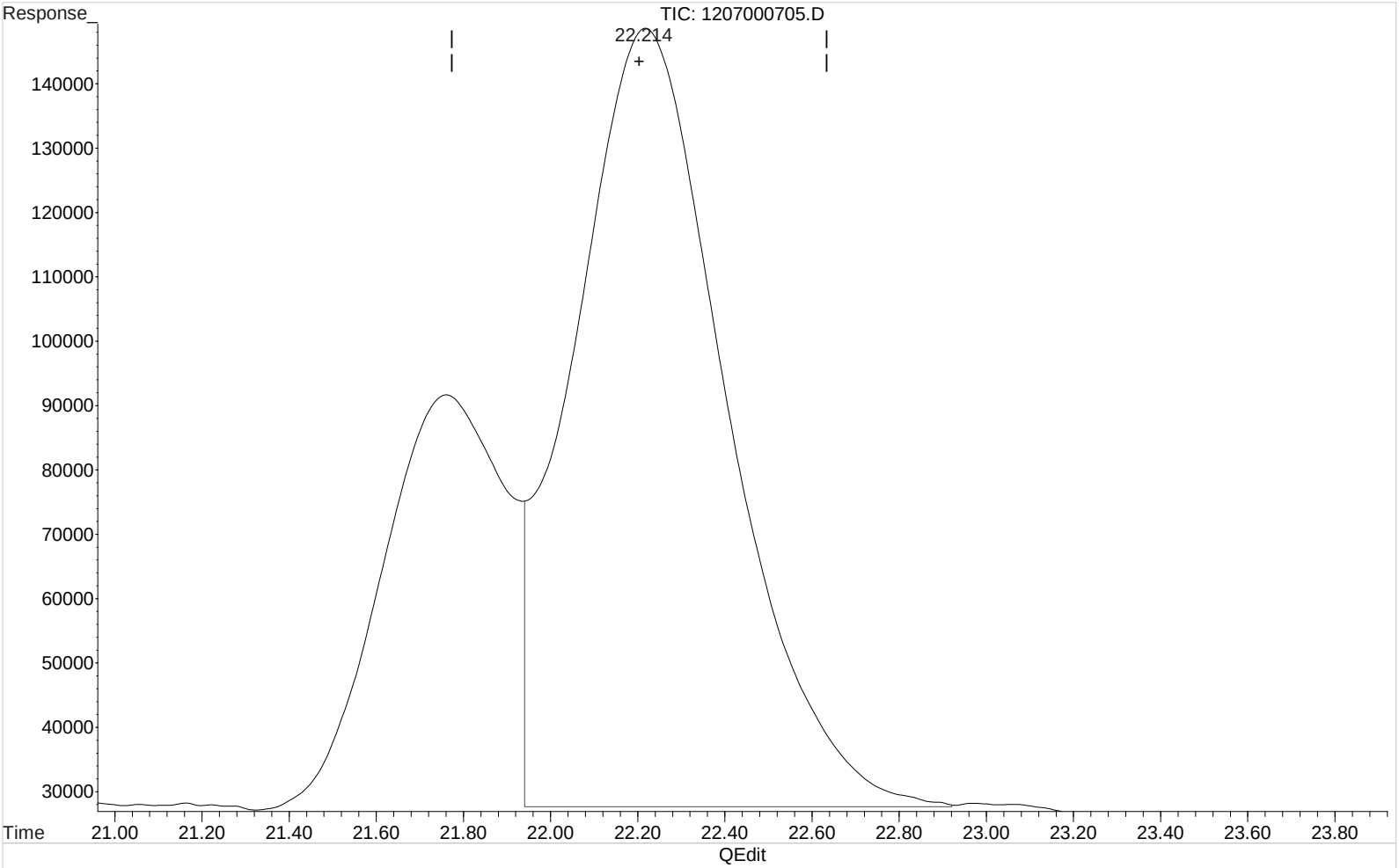
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.214min 51.322 ug/L m

response 2955148

Manual Integration:

After

BLC

12/08/16

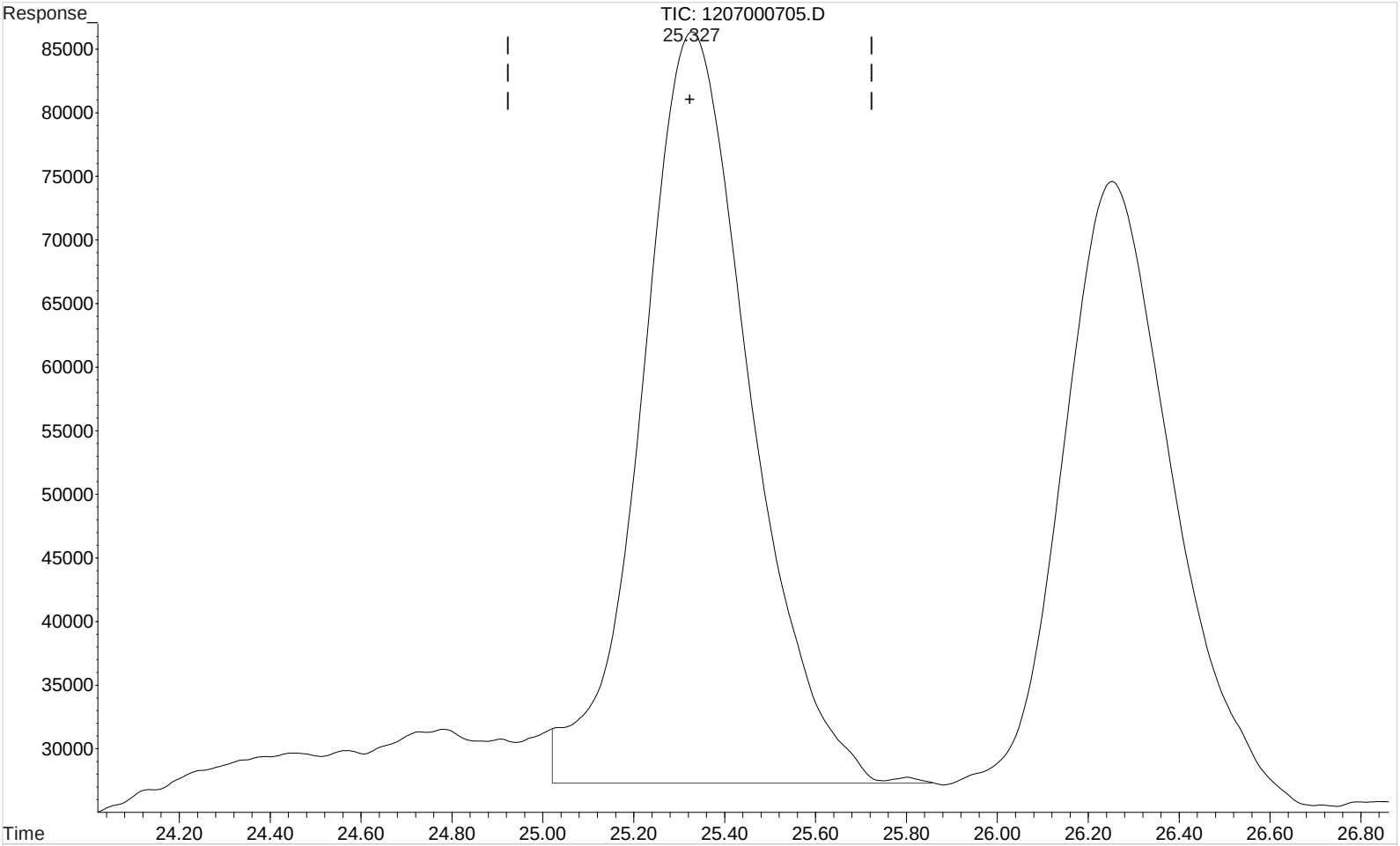
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.327min 56.083 ug/L

response 981052

Manual Integration:

Before

12/08/16

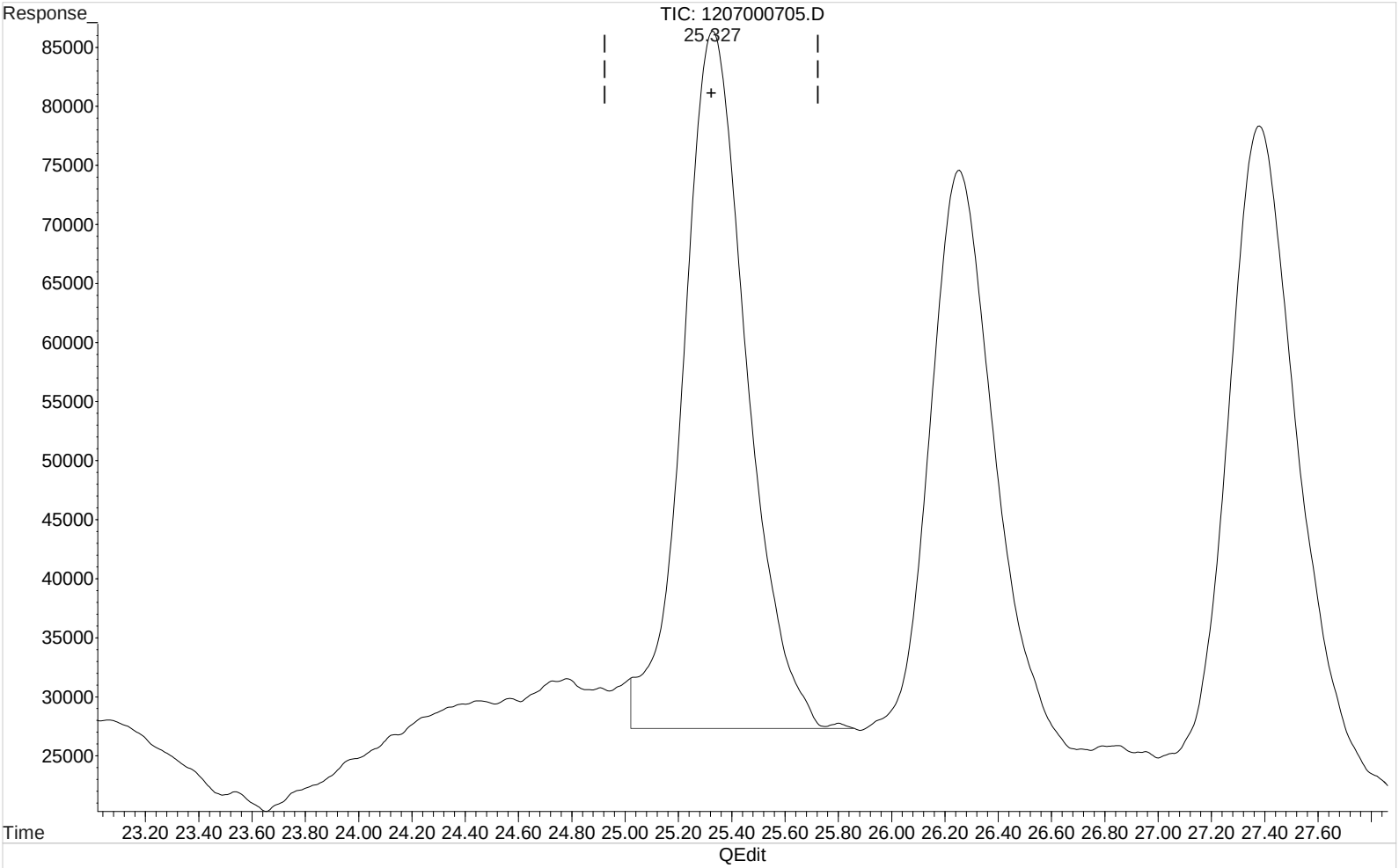
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.327min 56.083 ug/L

response 981052

Manual Integration:

Before

12/08/16

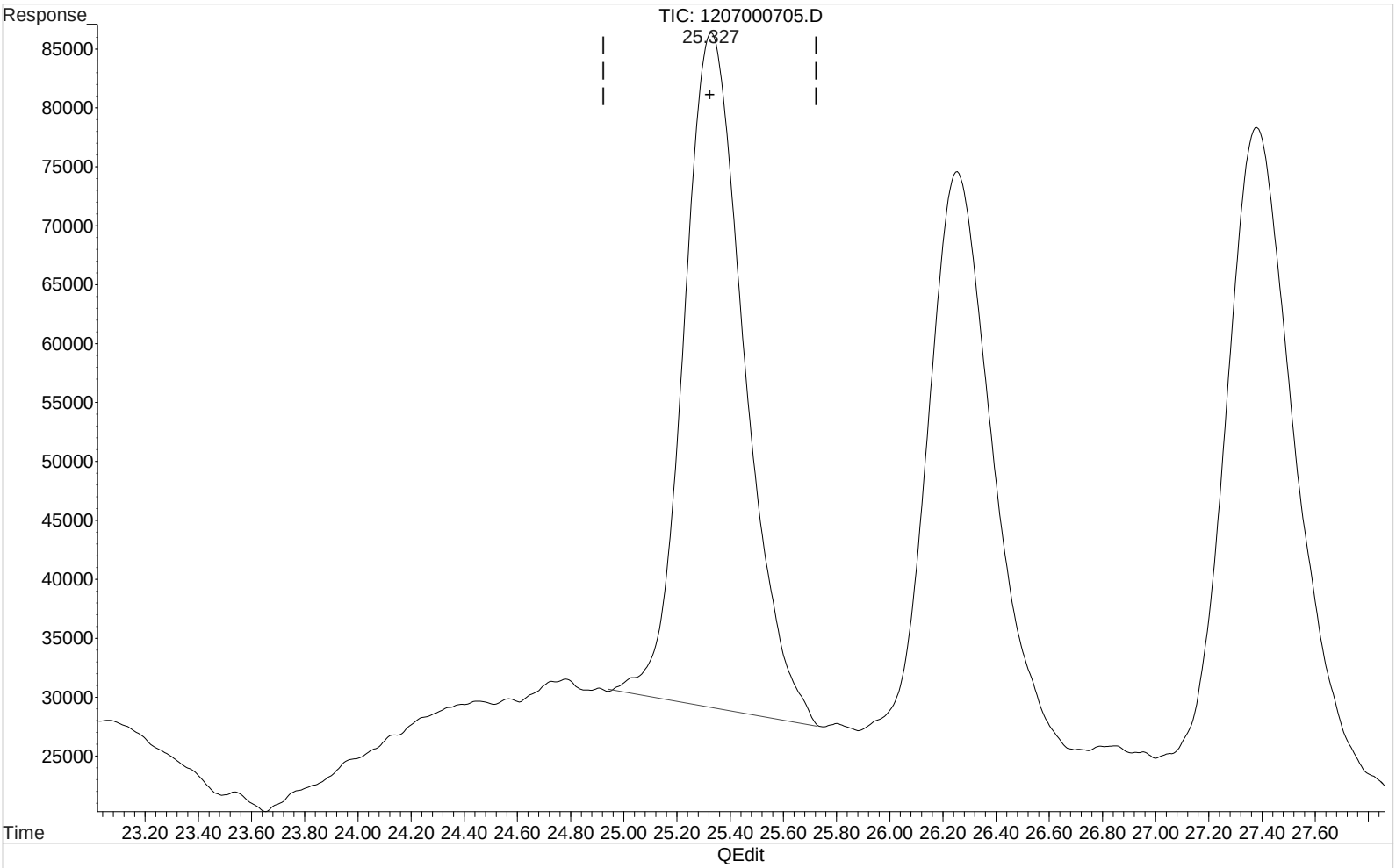
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.327min 52.158 ug/L m

response 912402

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)

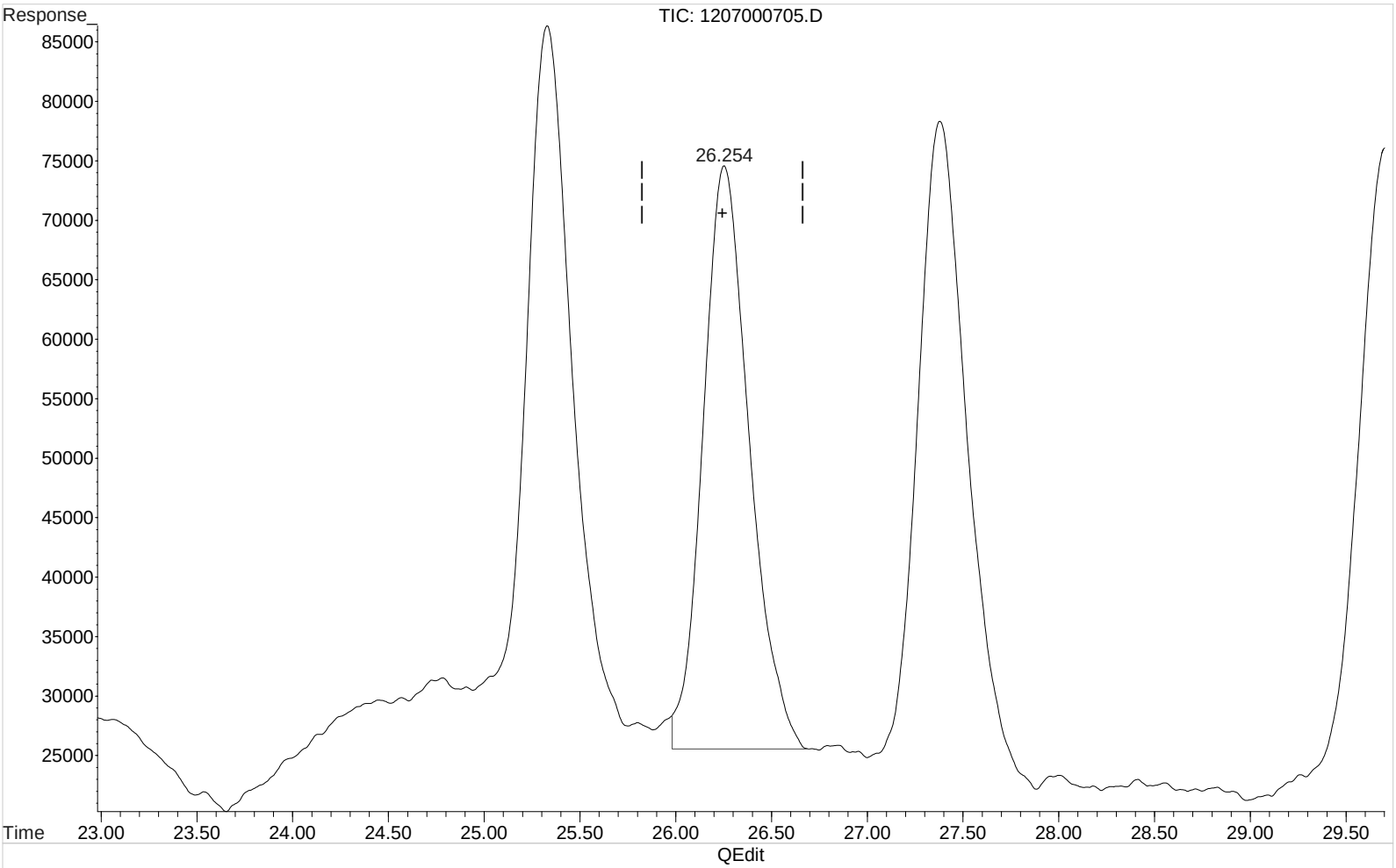
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.254min 51.817 ug/L

response 828954

Manual Integration:

Before

12/08/16

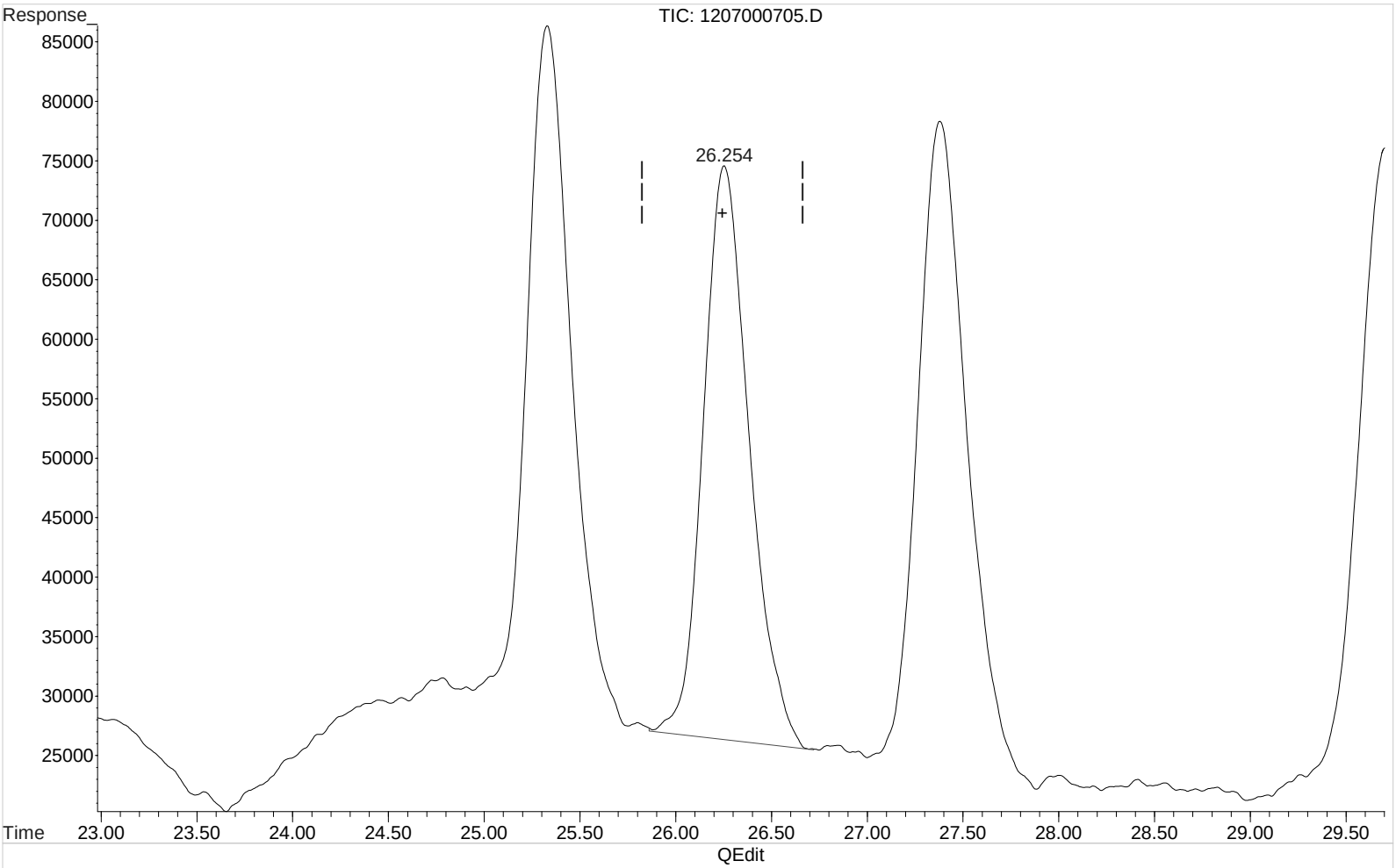
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.254min 50.422 ug/L m

response 806643

Manual Integration:

After

BLC

12/08/16

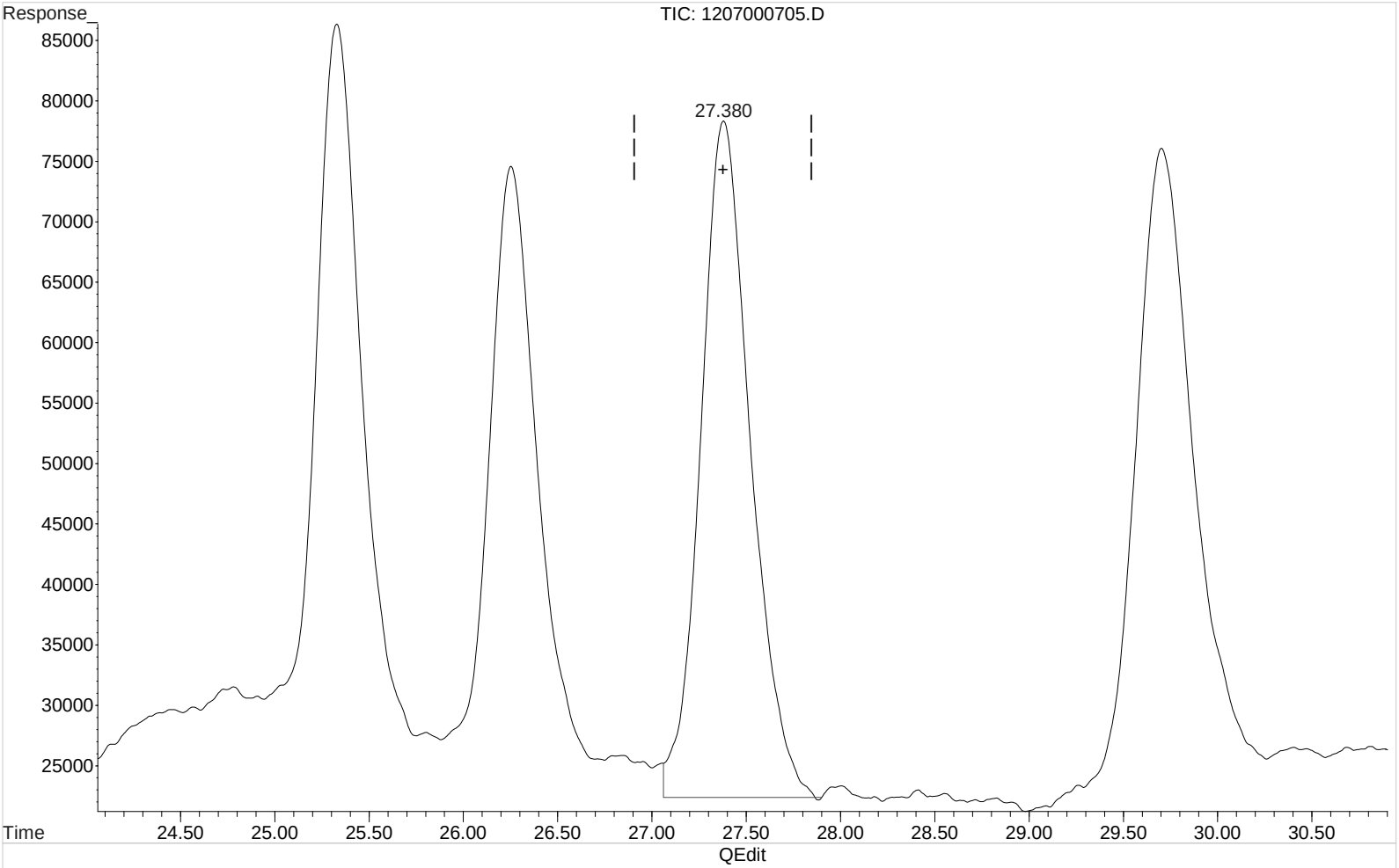
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.380min 50.117 ug/L

response 1030312

Manual Integration:

Before

12/08/16

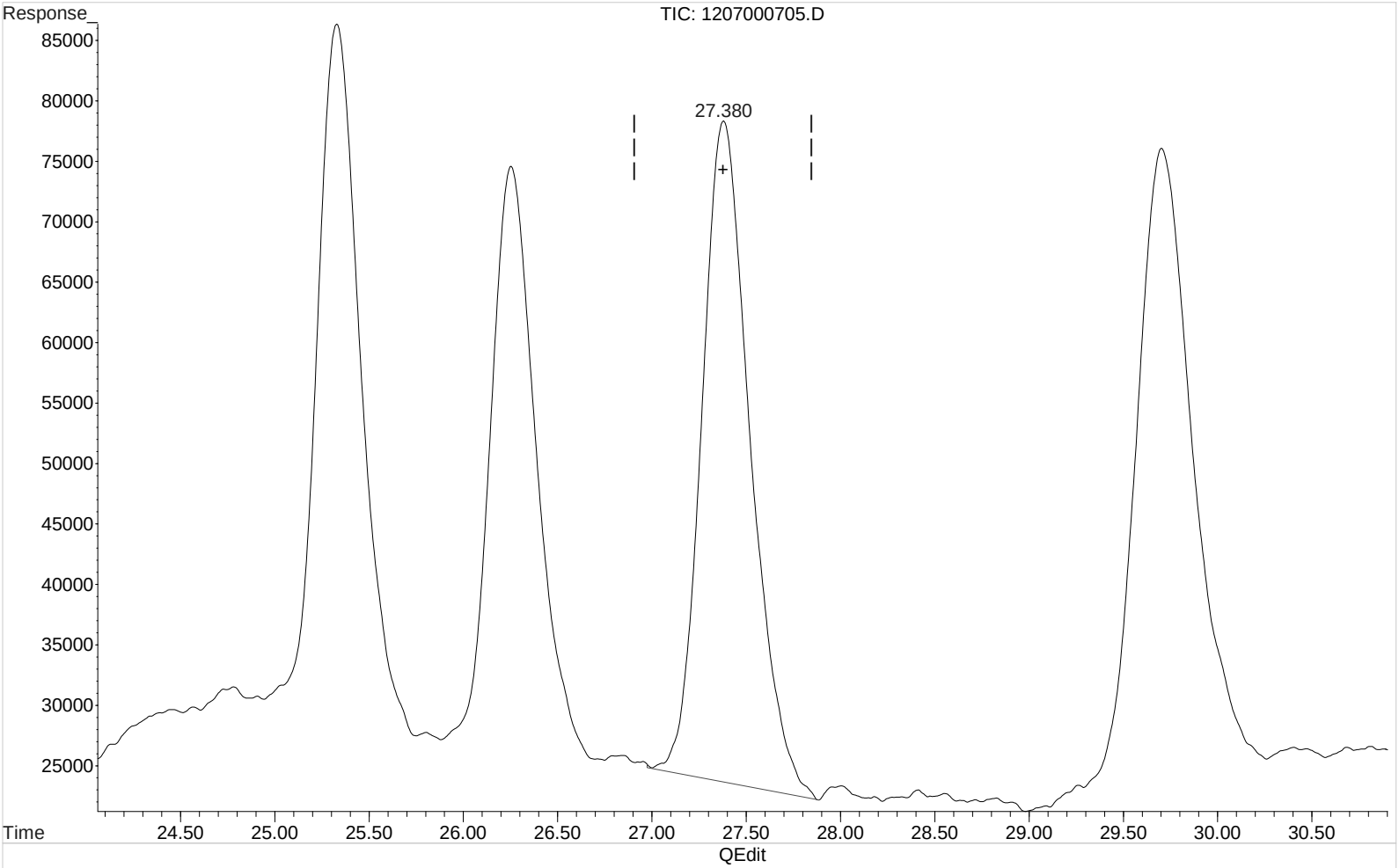
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.380min 47.770 ug/L m

response 982059

Manual Integration:

After

BLC

12/08/16

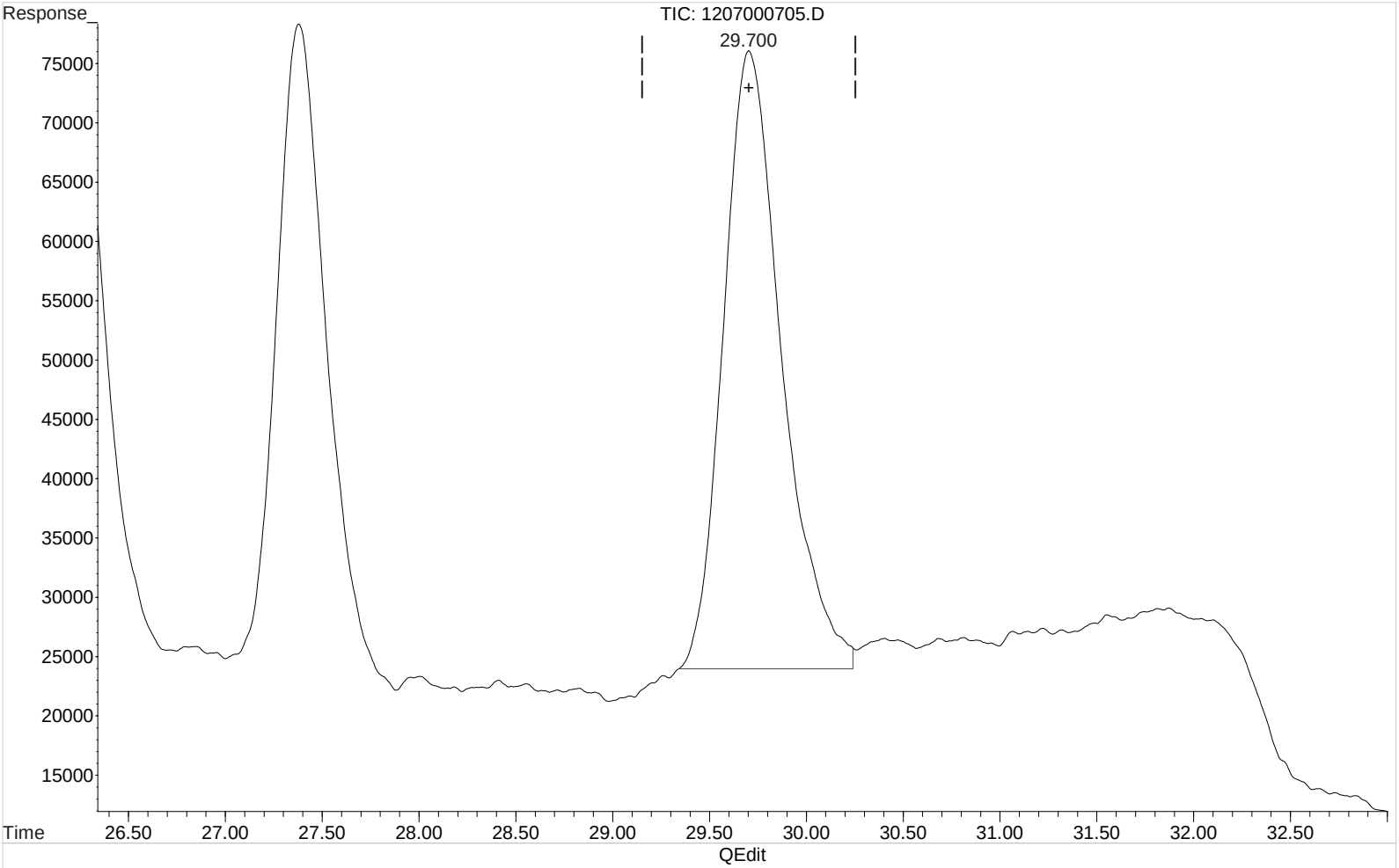
(+) = Expected Retention Time

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(18) 1-Chloro-3-Nitrobenzene (S)

29.700min 47.408 ug/L

response 1093549

Manual Integration:

Before

12/08/16

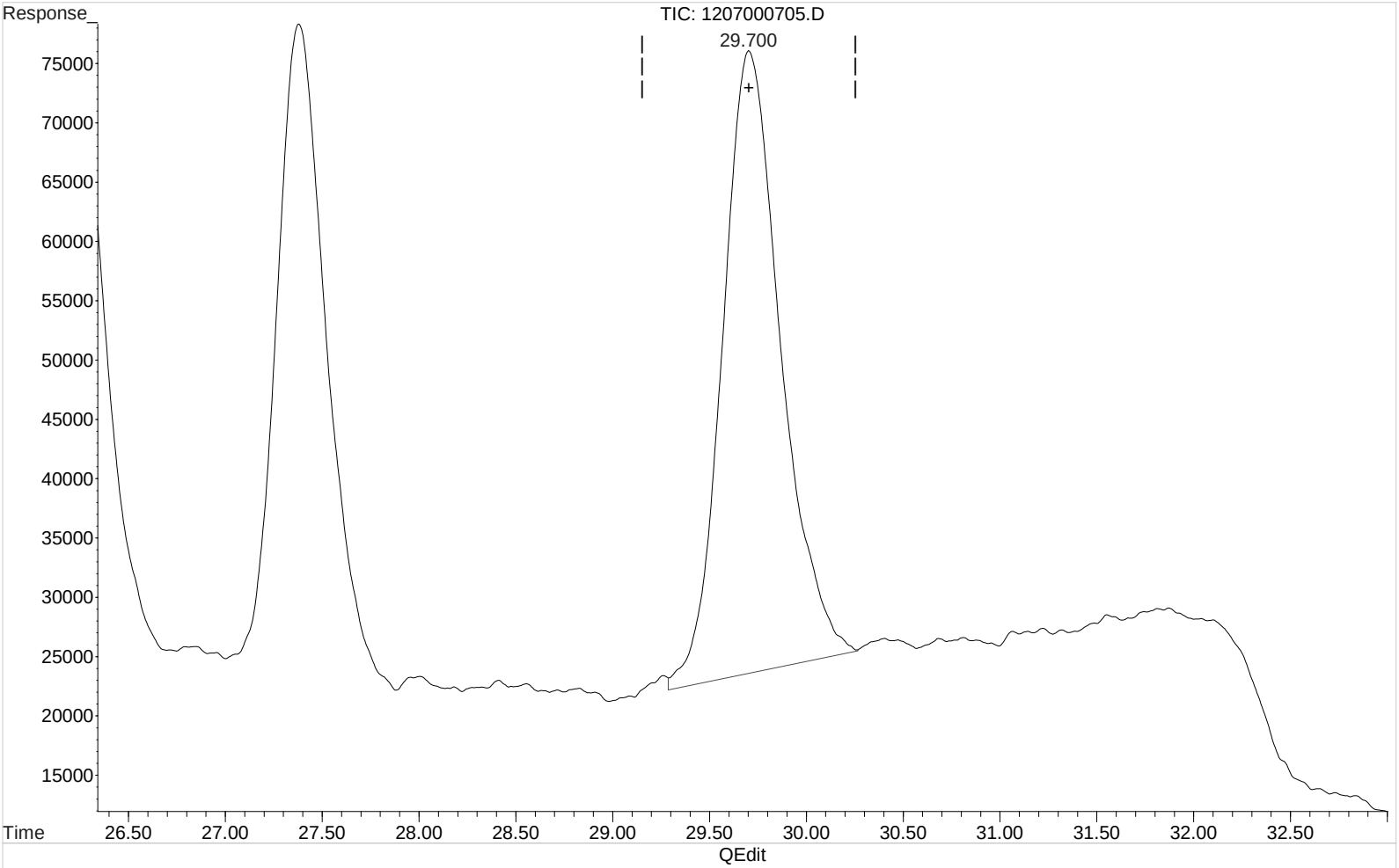
(+) = Expected Retention Time

(b) (6)
1st 12/08/16
2n 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(18) 1-Chloro-3-Nitrobenzene (S)

29.700min 47.809 ug/L m

response 1102787

Manual Integration:

After

BLC

12/08/16

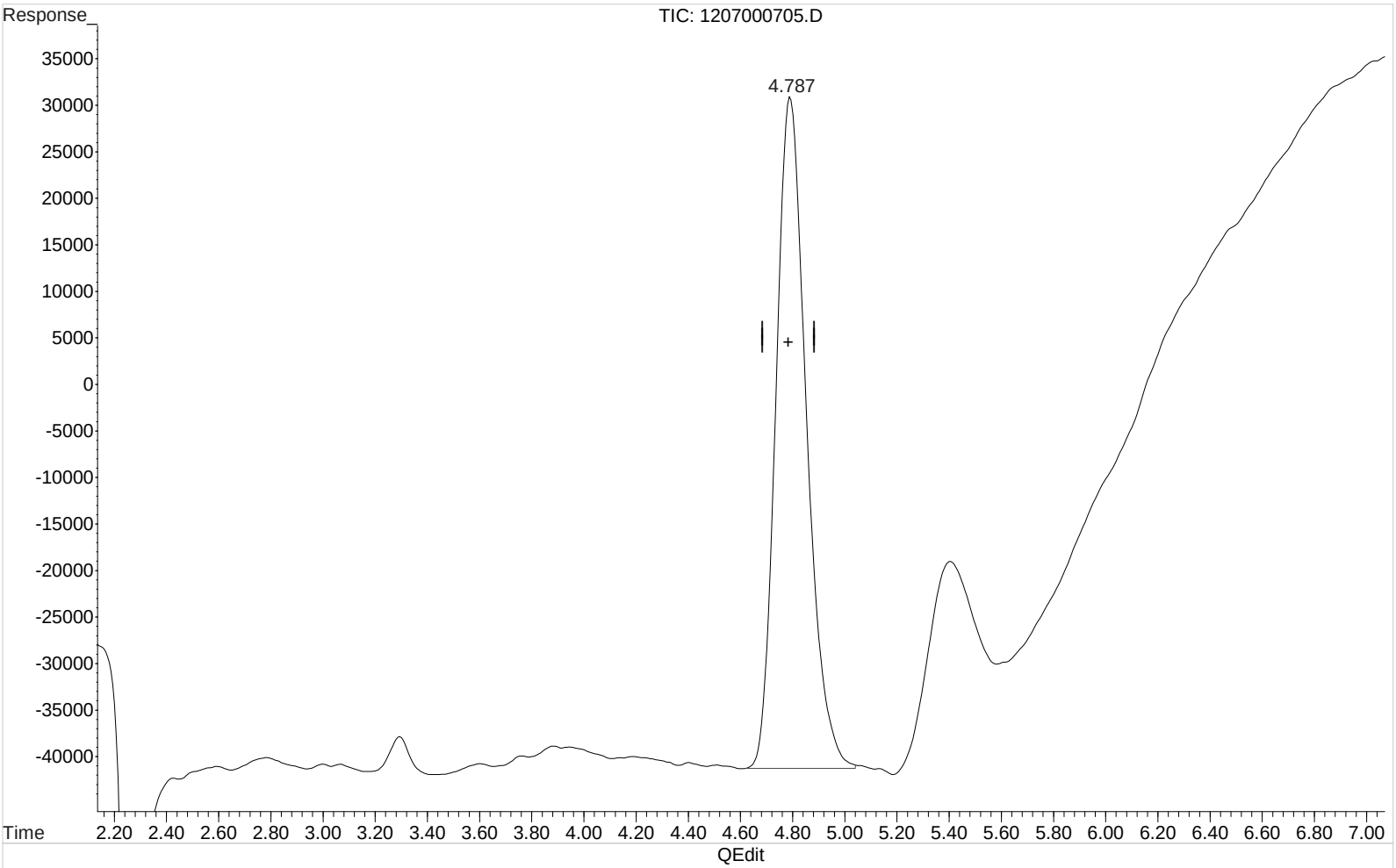
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(2) HMX (T)

4.787min 50.576 ug/L

response 588444

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

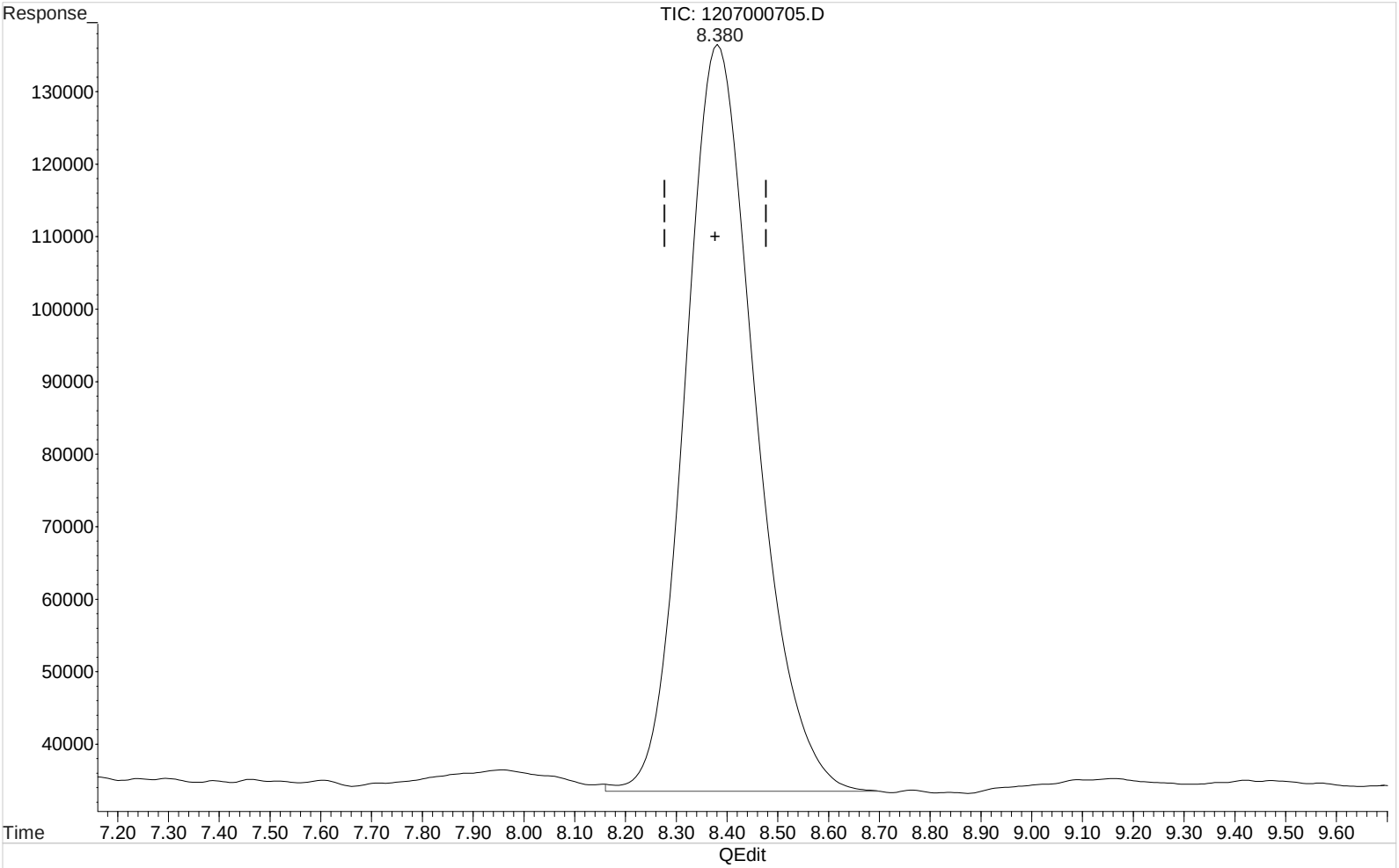
Quantitation Report (Qedit)

(b)
1st (6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(4) RDX (T)

8.380min 47.162 ug/L

response 991175

Manual Integration:

Before

12/08/16

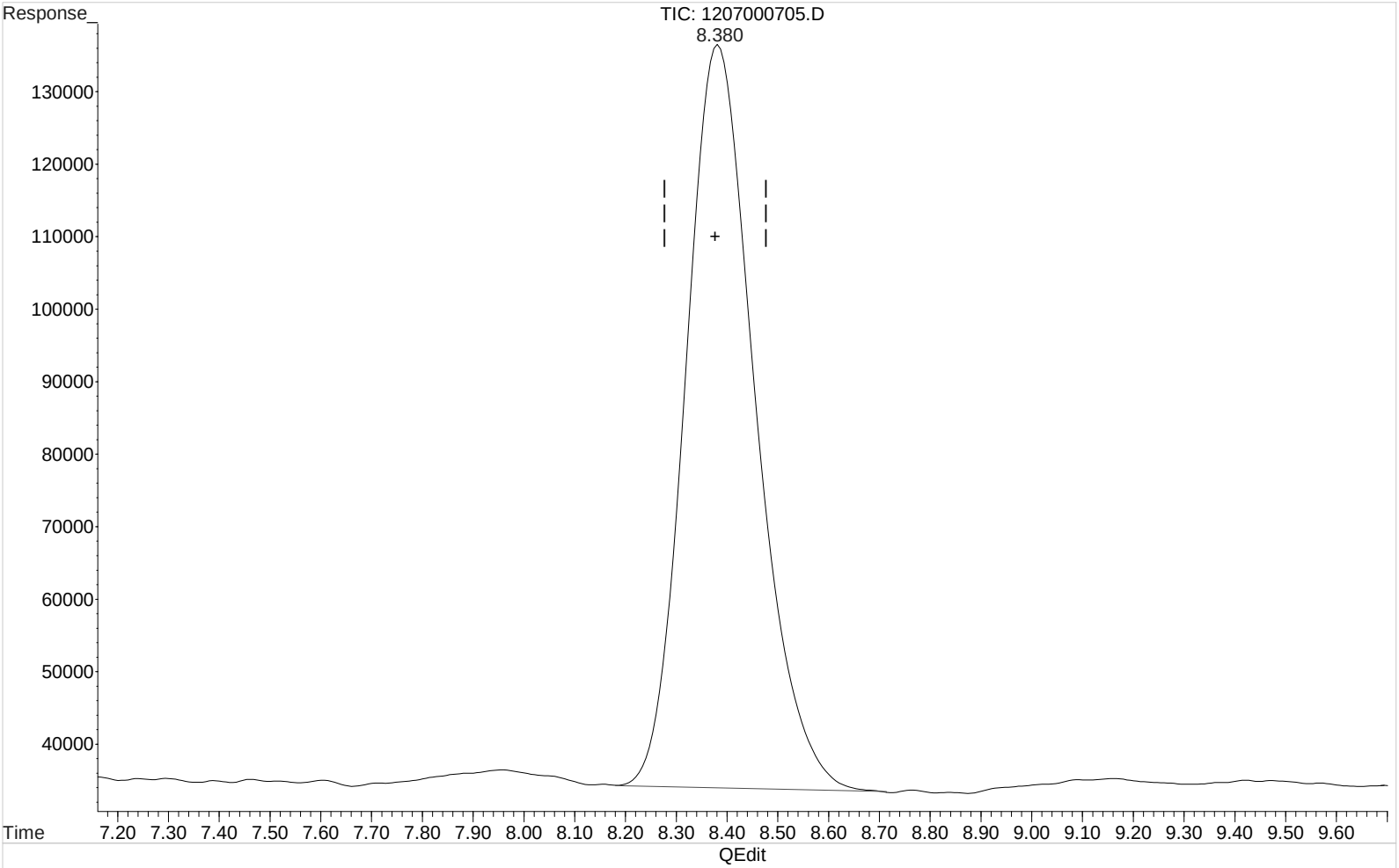
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(4) RDX (T)

8.380min 46.580 ug/L m

response 978940

Manual Integration:

After

BLC

12/08/16

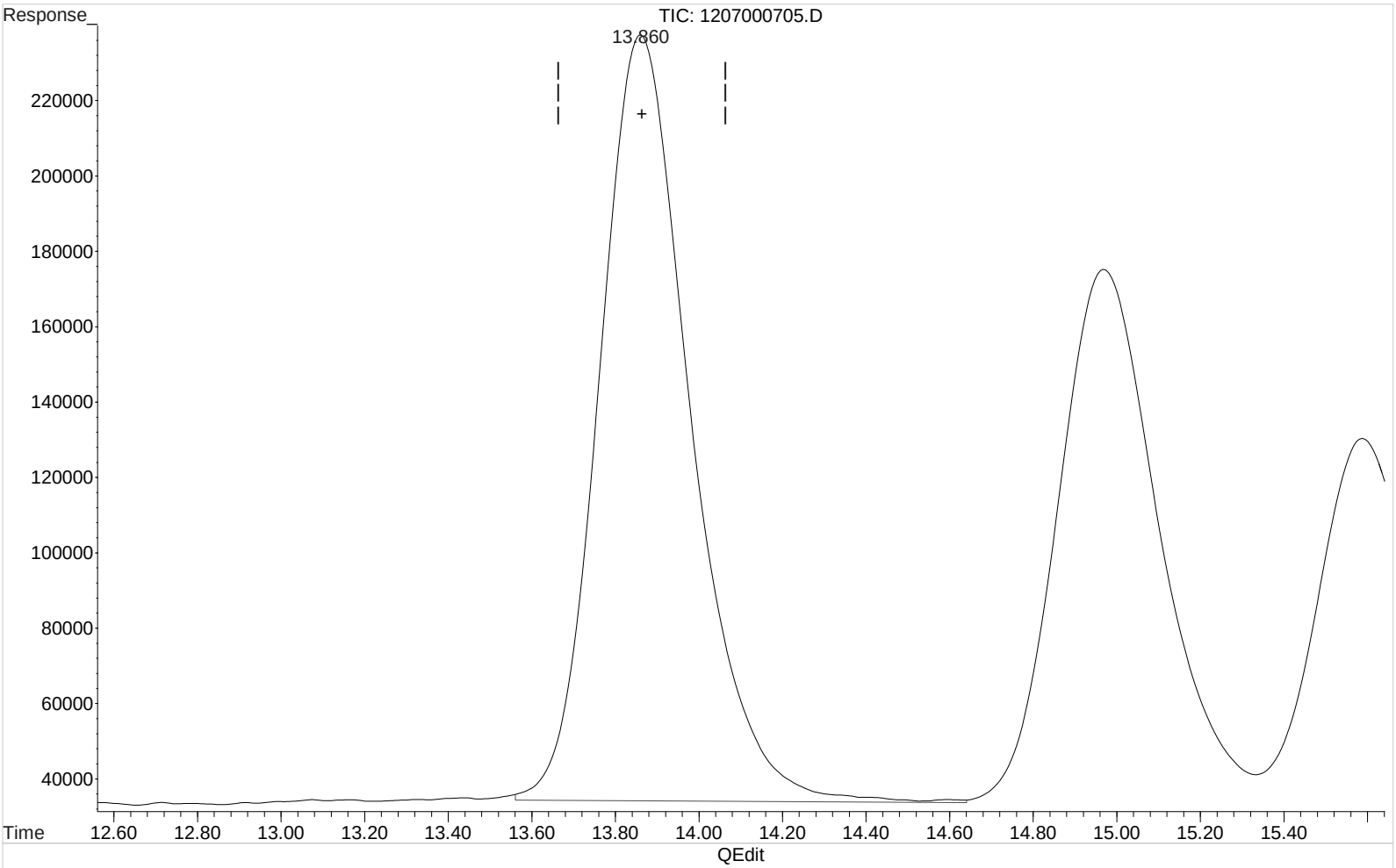
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(6) 1,3-DNB (T)

13.860min 49.138 ug/L

response 3091980

Manual Integration:

Before

12/08/16

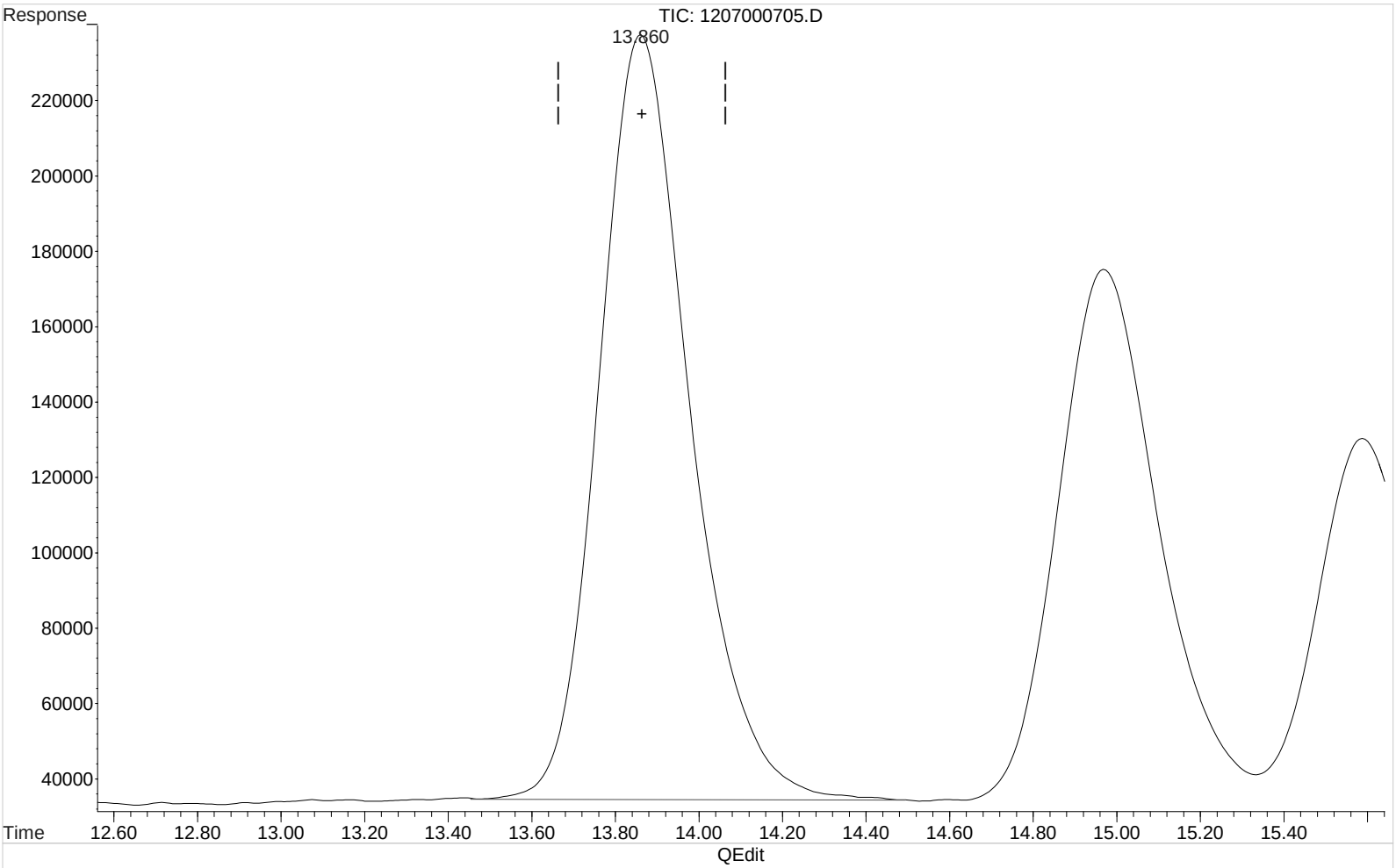
(+) = Expected Retention Time

(b)
1st (6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(6) 1,3-DNB (T)

13.860min 48.773 ug/L m

response 3069012

Manual Integration:

After

BLC

12/08/16

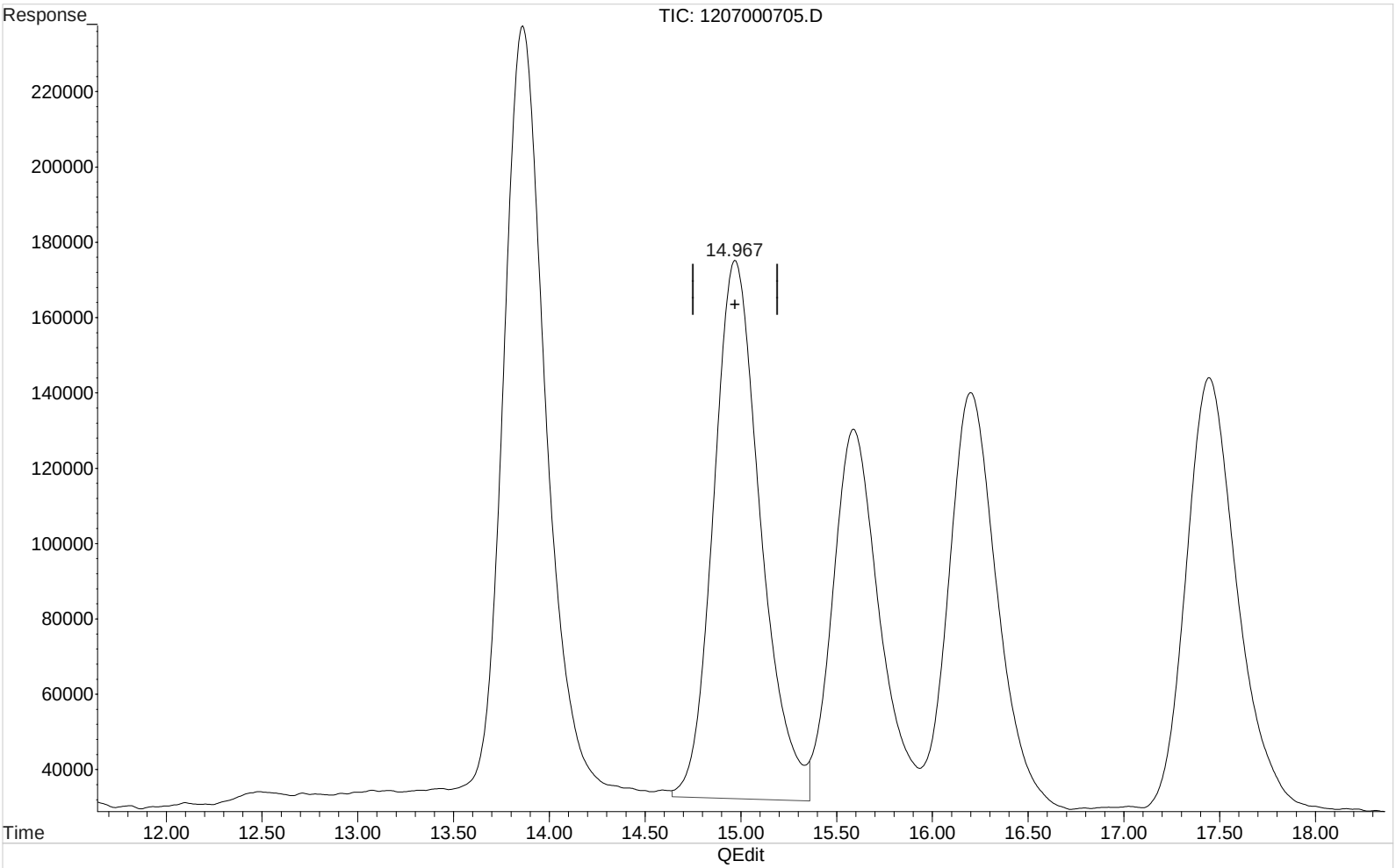
(+) = Expected Retention Time

(b) (6)
1st [redacted] 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(7) 3,5-Dinitroaniline (T)

14.967min 50.232 ug/L

response 2450718

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

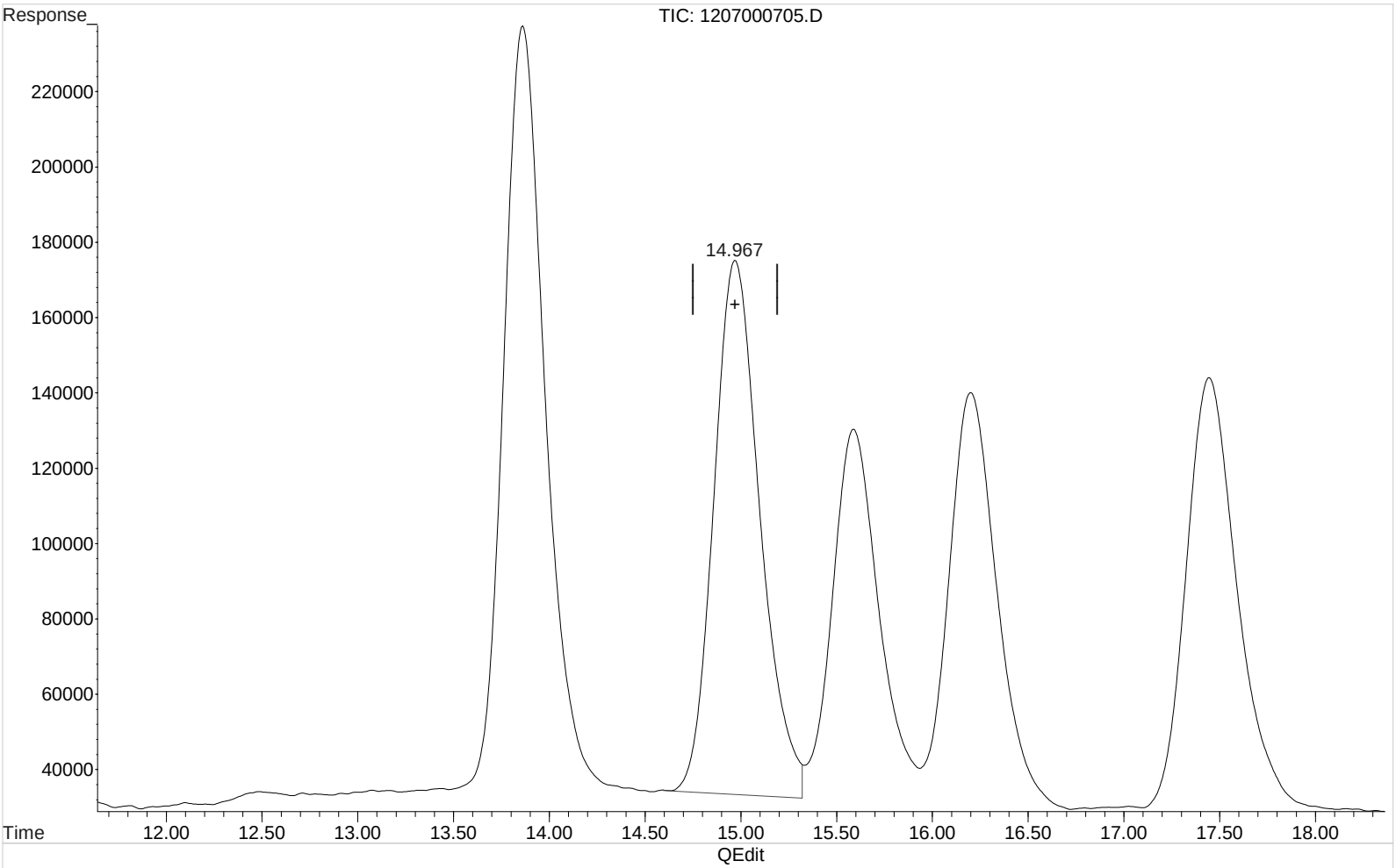
Quantitation Report (Qedit)

1st (b) (6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(7) 3,5-Dinitroaniline (T)

14.967min 48.826 ug/L m

response 2382128

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)

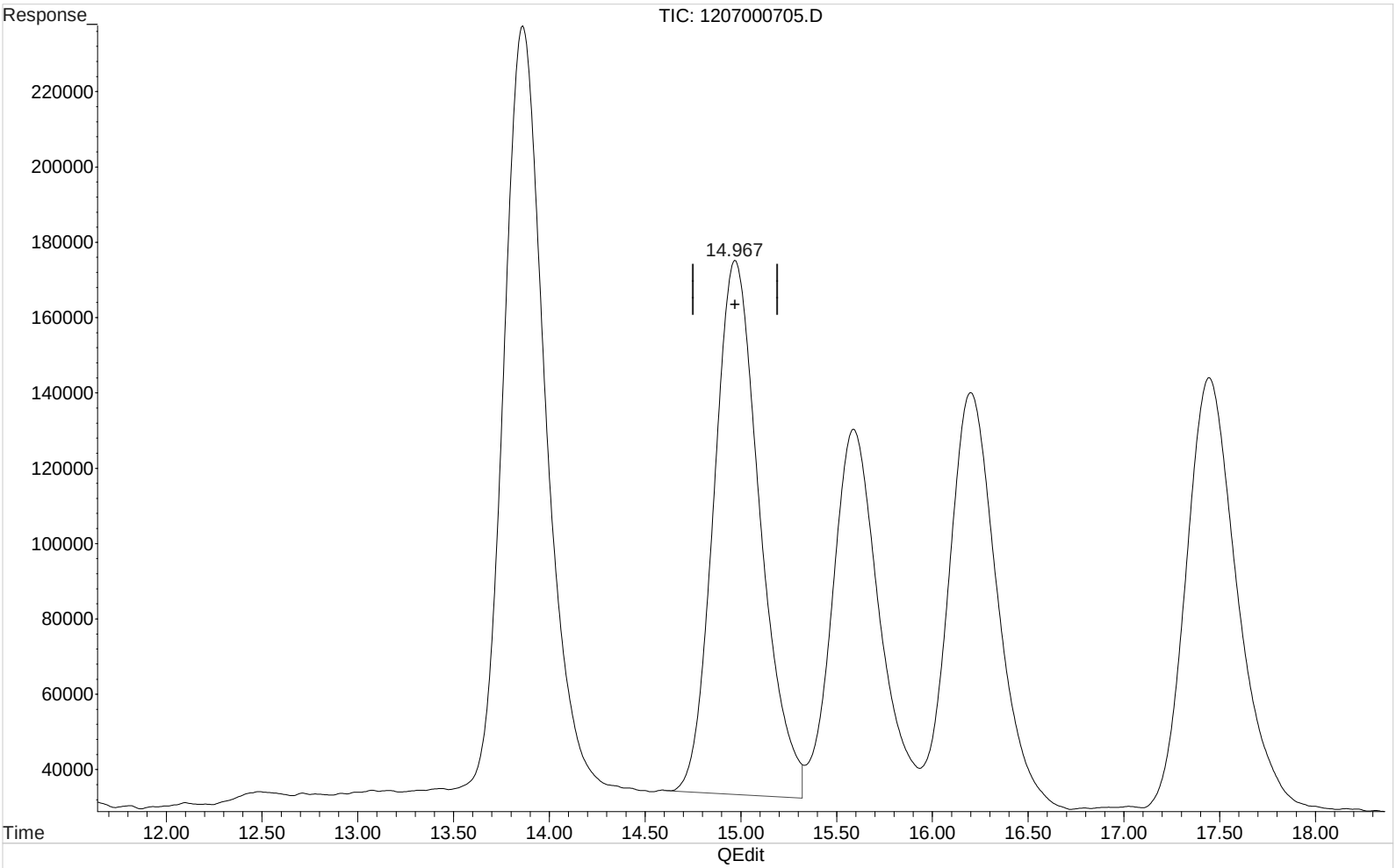
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.967min 48.826 ug/L m

response 2382128

Manual Integration:

After

NO BEFORE, ACCIDENTAL INT

12/08/16

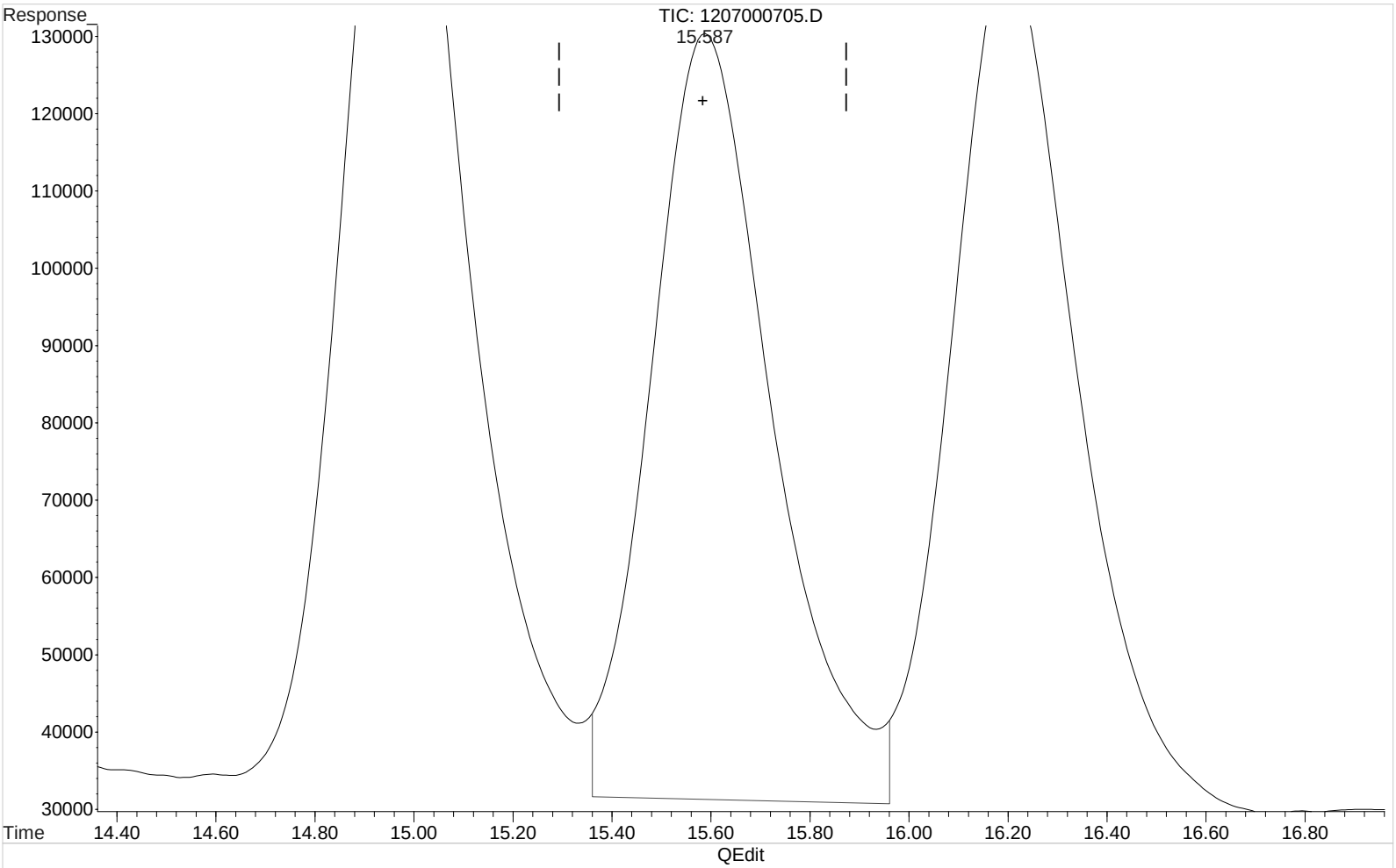
(+) = Expected Retention Time

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.587min 49.926 ug/L

response 1682029

Manual Integration:

Before

12/08/16

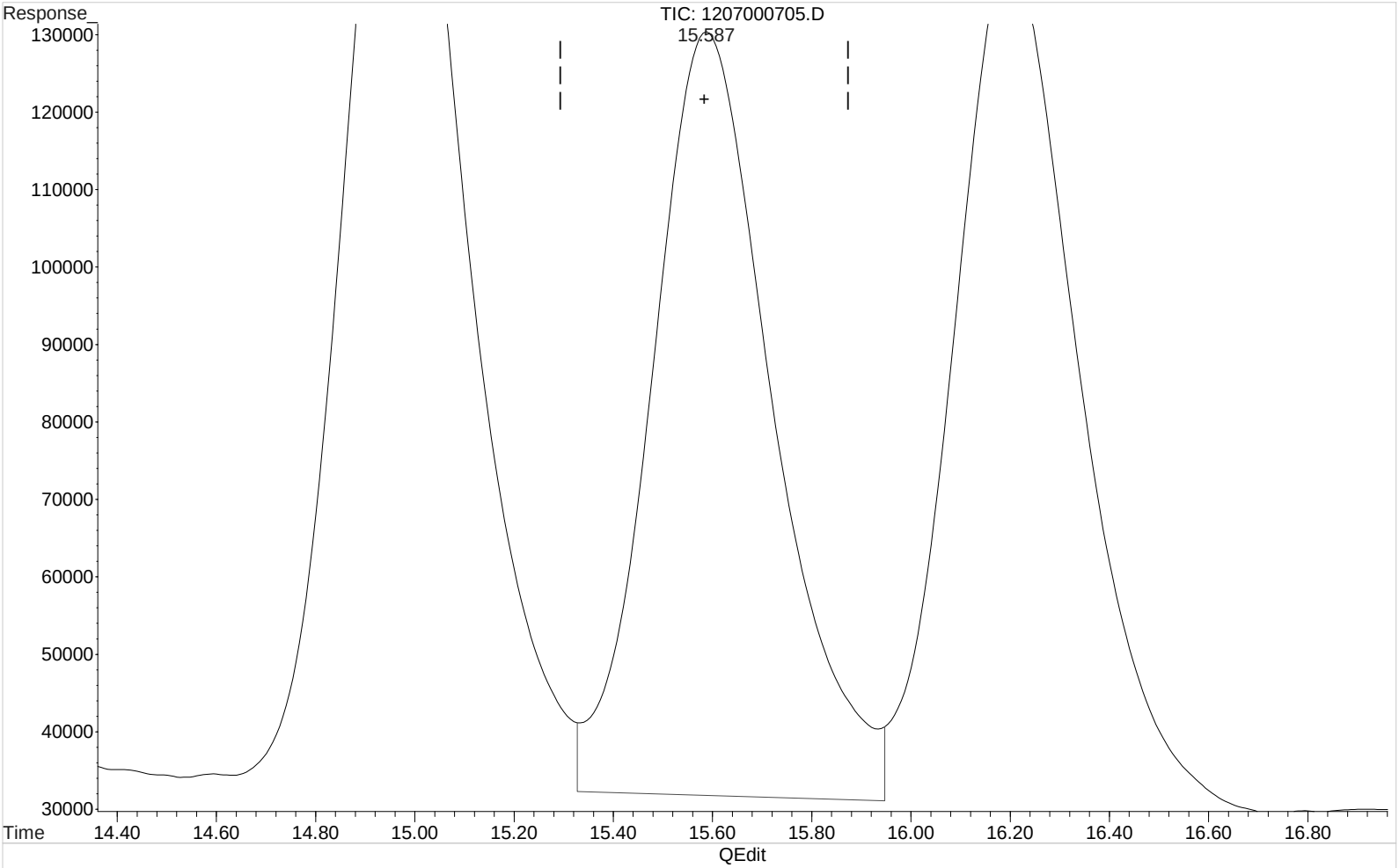
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.587min 49.760 ug/L m

response 1676426

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

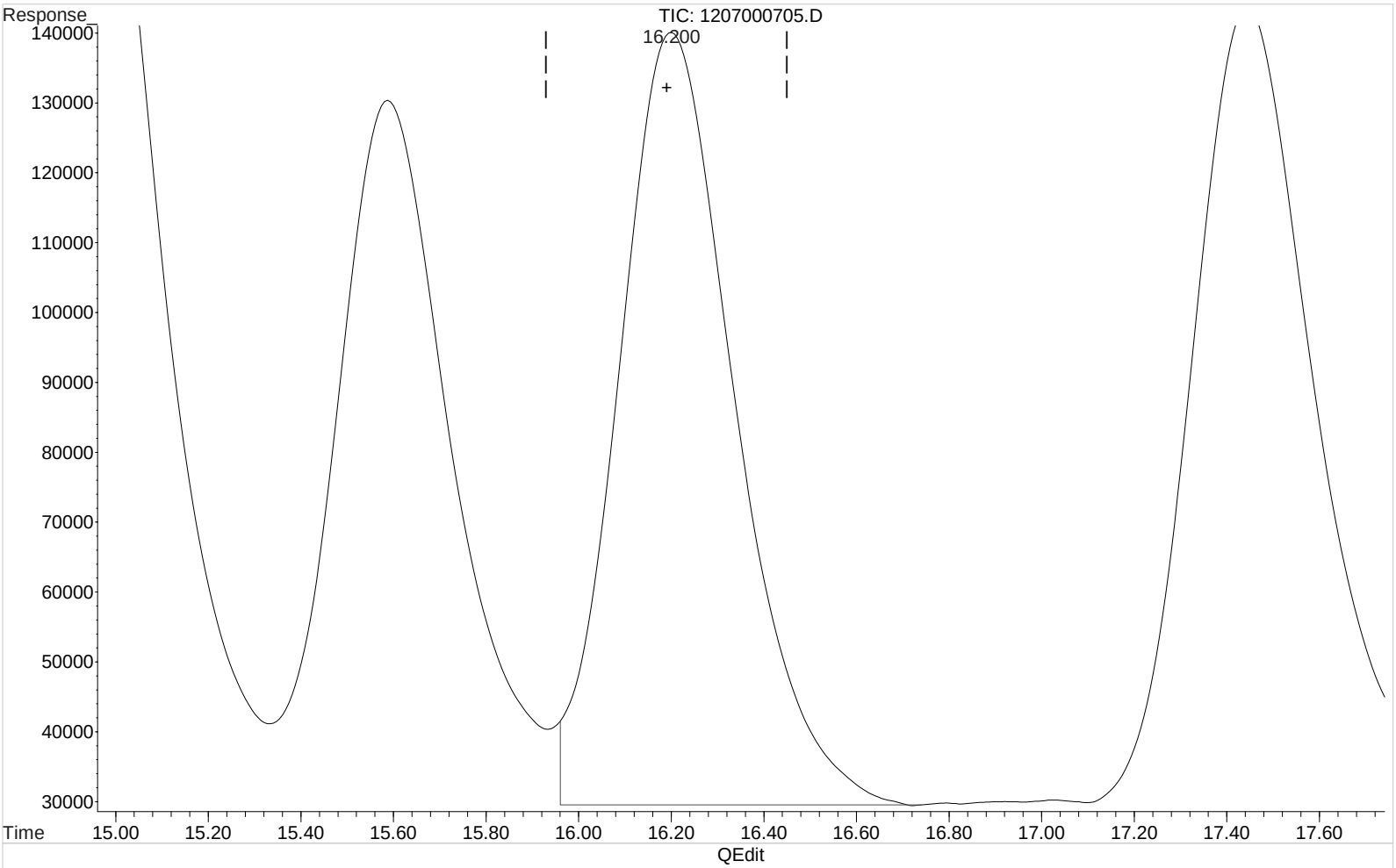
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.200min 48.909 ug/L

response 1926694

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

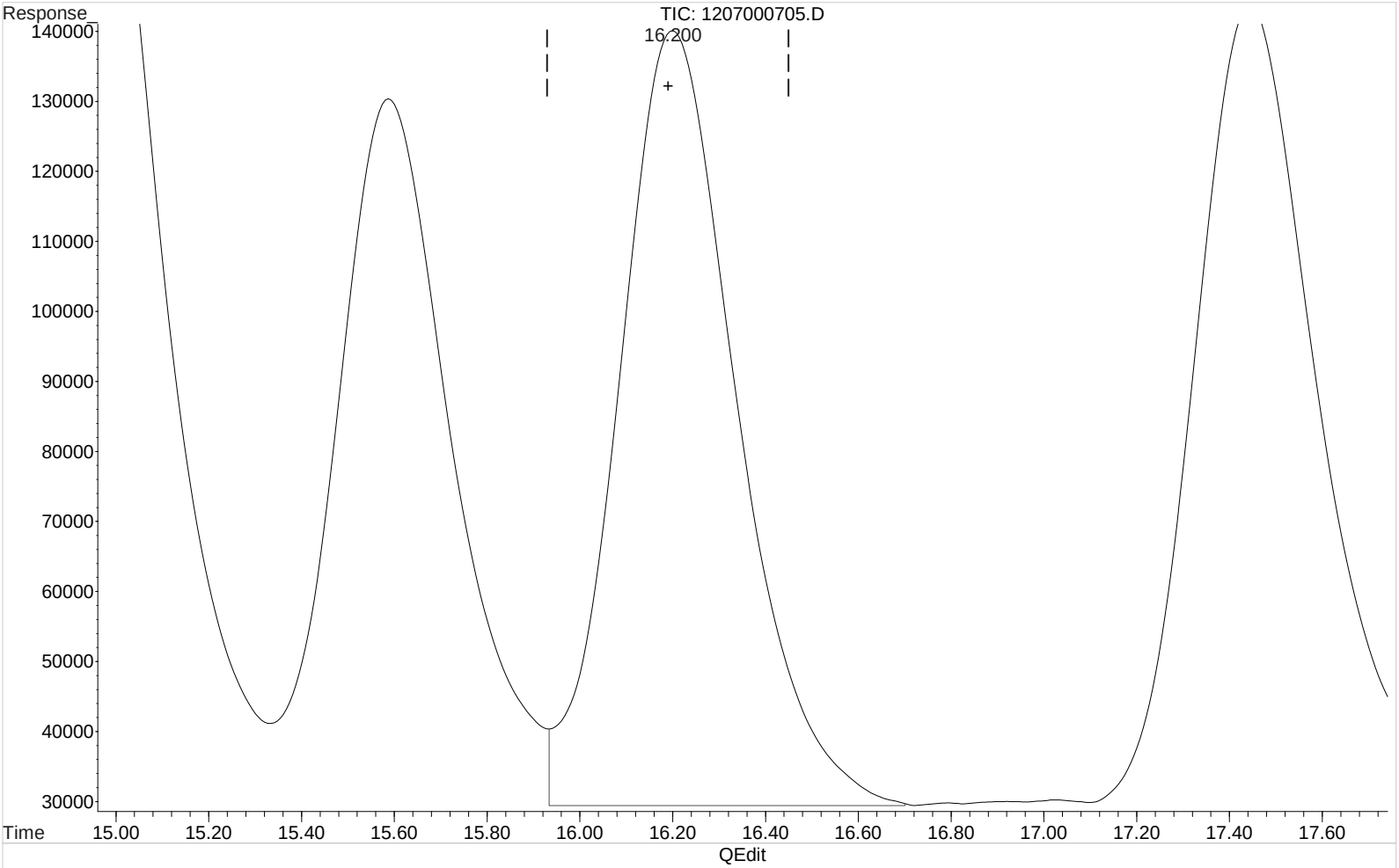
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000705.D Vial: 4
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 20:49:09 Operator: AE
Sample : ICAL 50 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 08:38:32 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 08:34:49 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.200min 49.519 ug/L m

response 1950750

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:06:56 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
18)	S	1-Chloro-3-Nitrobenzene	29.688	2222660	98.517	ug/L	m
		Target Compounds					
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	4.788	1216166	103.579	ug/L	
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	8.381	1985238	97.807	ug/L	m
5)	T	1,3,5-TNB	10.521	4433120	97.549	ug/L	m
6)	T	1,3-DNB	13.861	5956080	95.830	ug/L	
7)	T	3,5-Dinitroaniline	14.975	4770181	98.935	ug/L	m
8)	T	Tetryl	15.588	3353341	99.774	ug/L	m
9)	T	Nitrobenzene	16.201	3828698	97.660	ug/L	m
10)	T	2,4,6-TNT	17.441	4139905	101.107	ug/L	
11)	T	4-Amino-2,6-DNT	19.215	2969829	103.131	ug/L	m
12)	T	2-Amino-4,6-DNT	20.048	4166626	93.333	ug/L	
13)	T	2,6-DNT	21.748	2380424	NoCal	ug/L	m
14)	T	2,4-DNT	22.201	5893843	101.023	ug/L	m
15)	T	2-NT	25.321	1803120	100.899	ug/L	
16)	T	4-NT	26.241	1643208	102.283	ug/L	m
17)	T	3-NT	27.361	2049432	101.964	ug/L	m

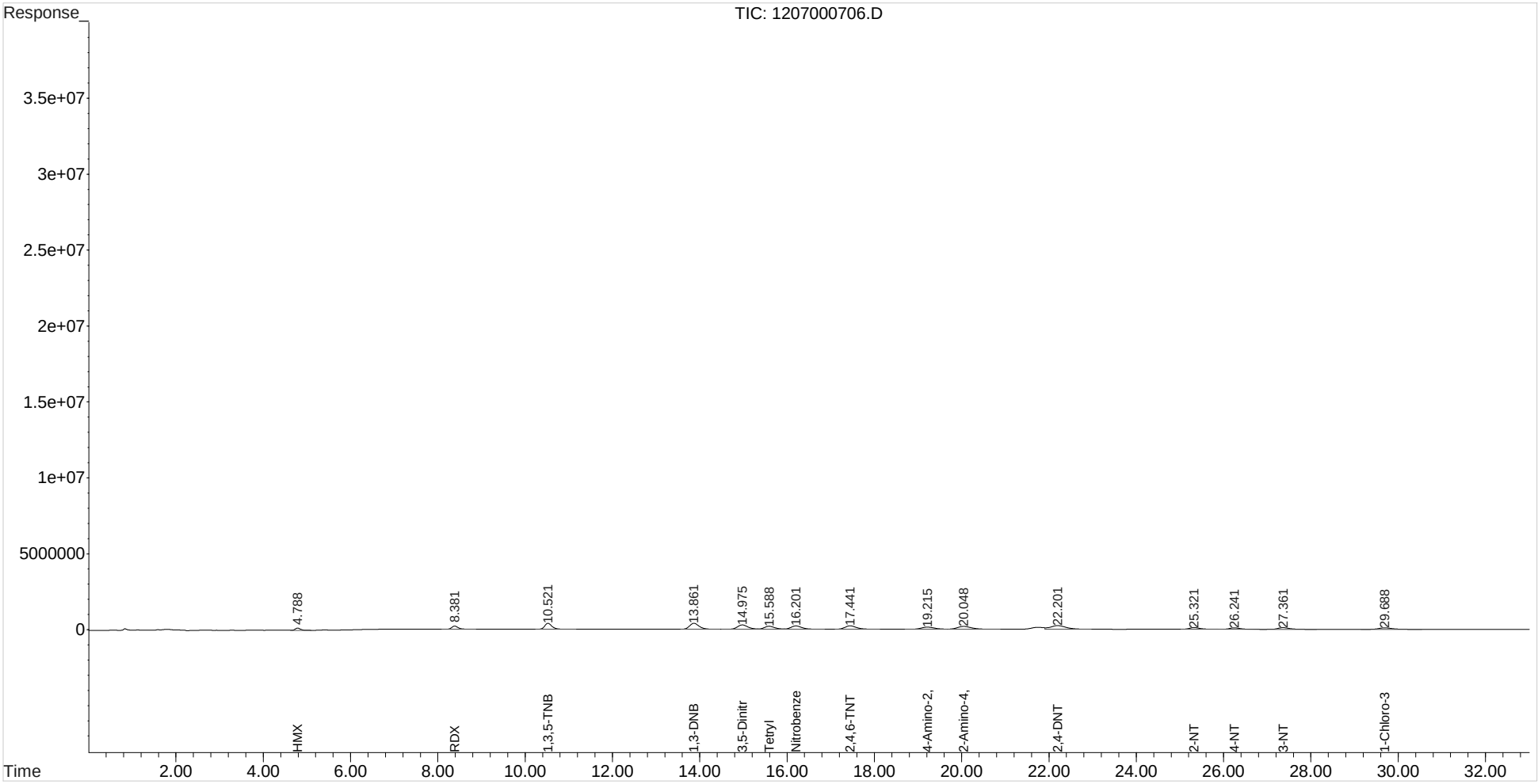
(f)=RT Delta > 1/2 Window (m)=manual int.

1st (b) (6) 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:06:56 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

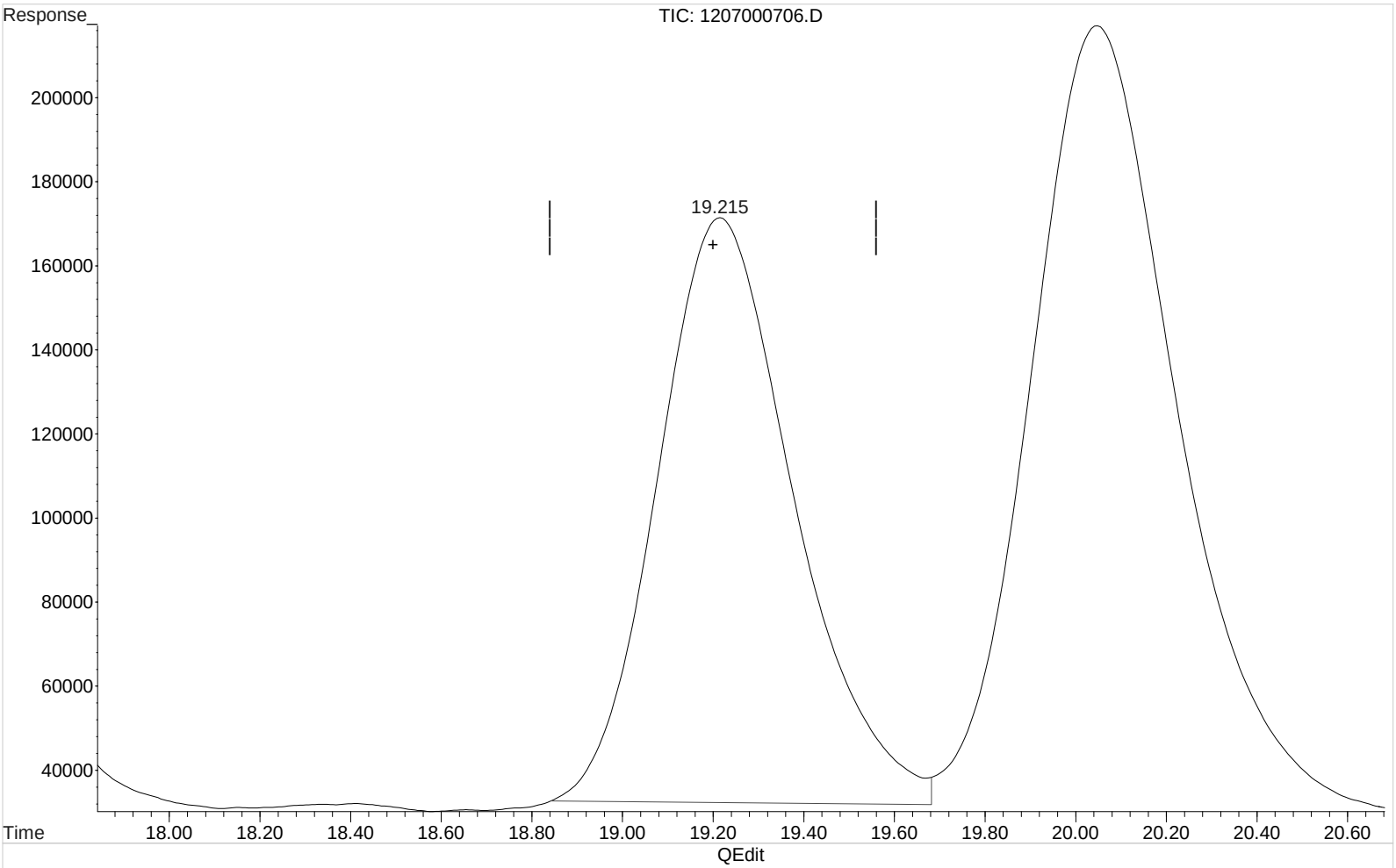


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(11) 4-Amino-2,6-DNT (T)

19.215min 100.578 ug/L

response 2896316

Manual Integration:

Before

12/08/16

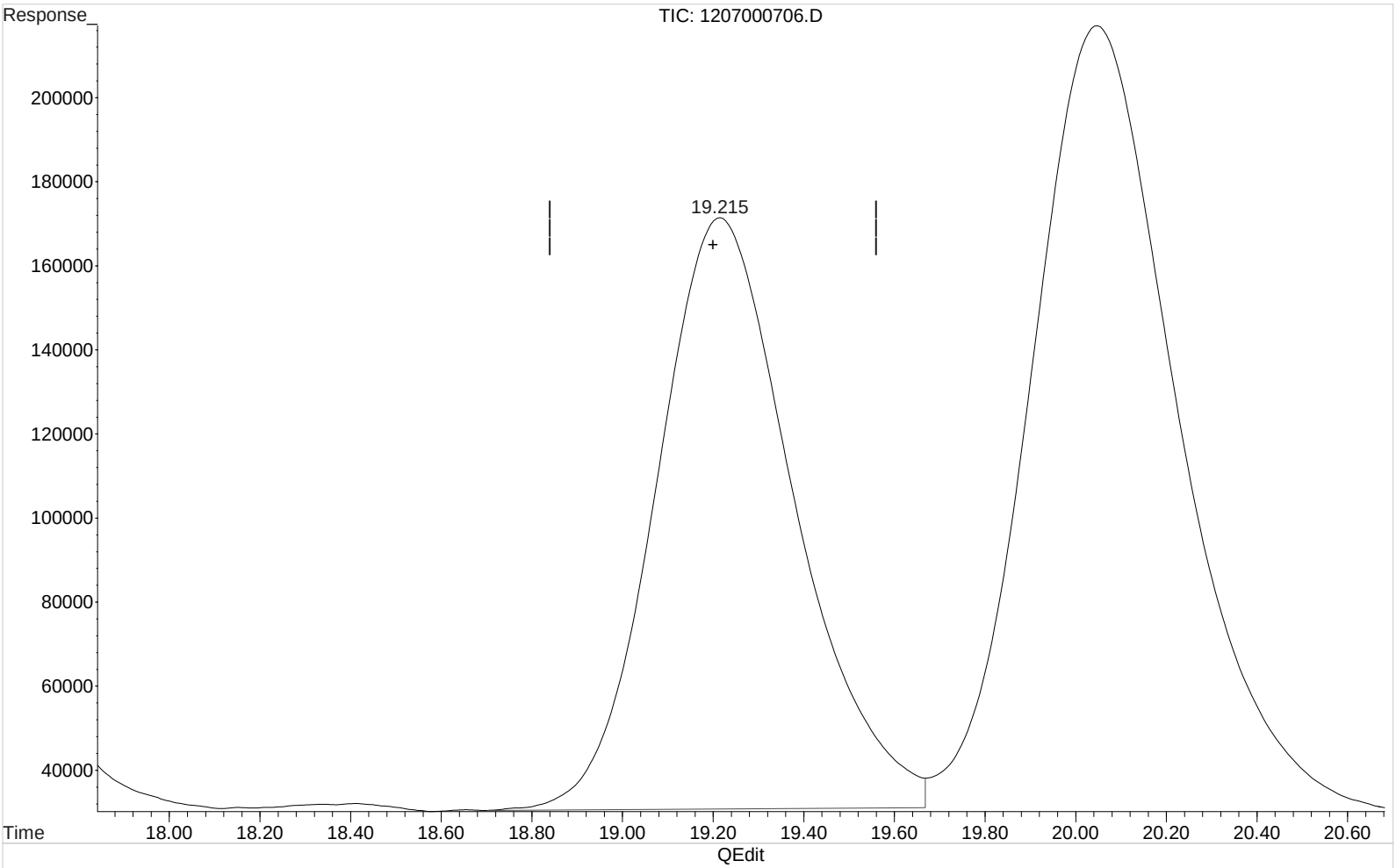
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(11) 4-Amino-2,6-DNT (T)

19.215min 103.131 ug/L m

response 2969829

Manual Integration:

After

BLC

12/08/16

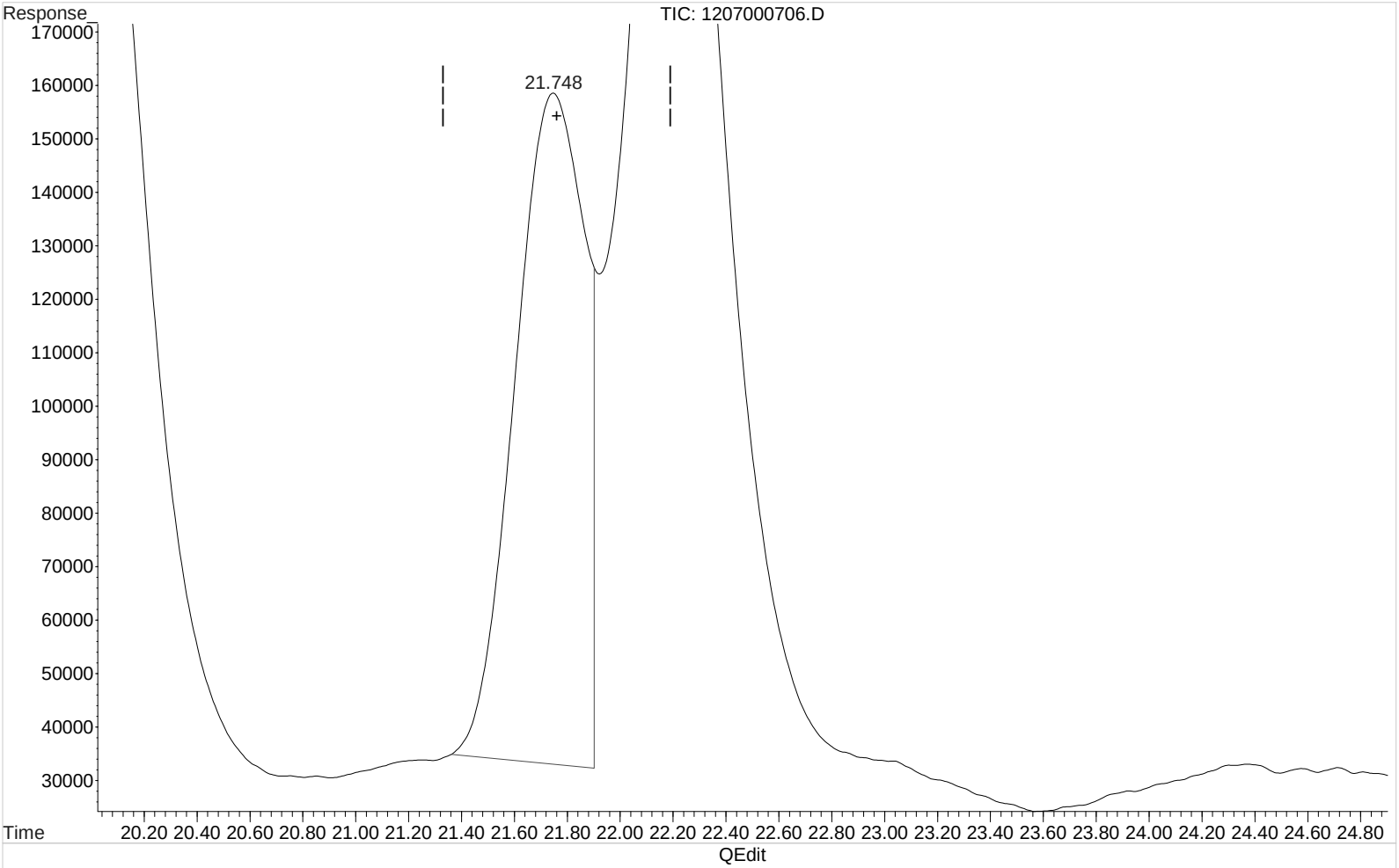
(+) = Expected Retention Time

1st (b) (6) 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.748min 0.000 ug/L

response 2294444

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b)(6)

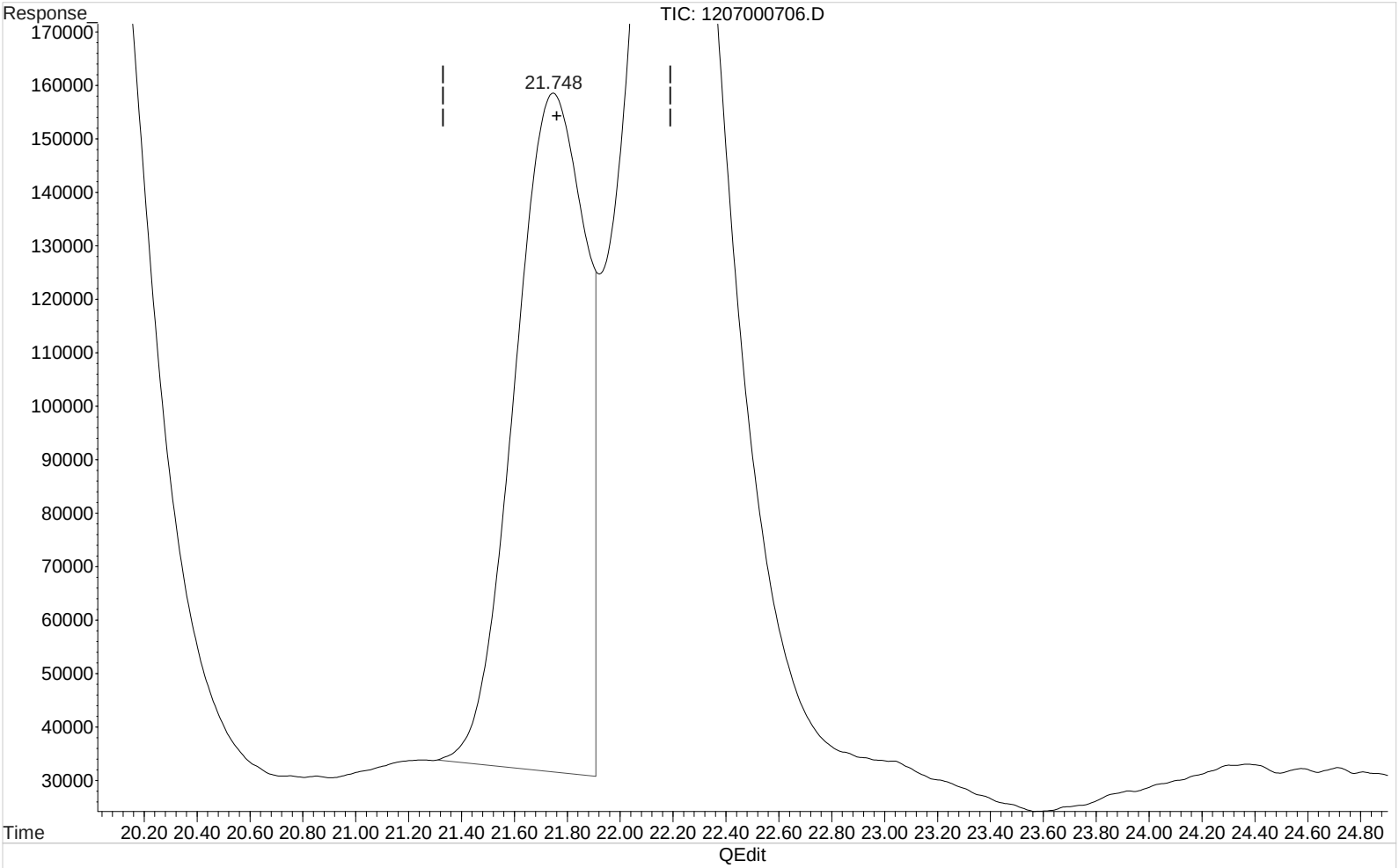
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.748min 0.000 ug/L m

response 2380424

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

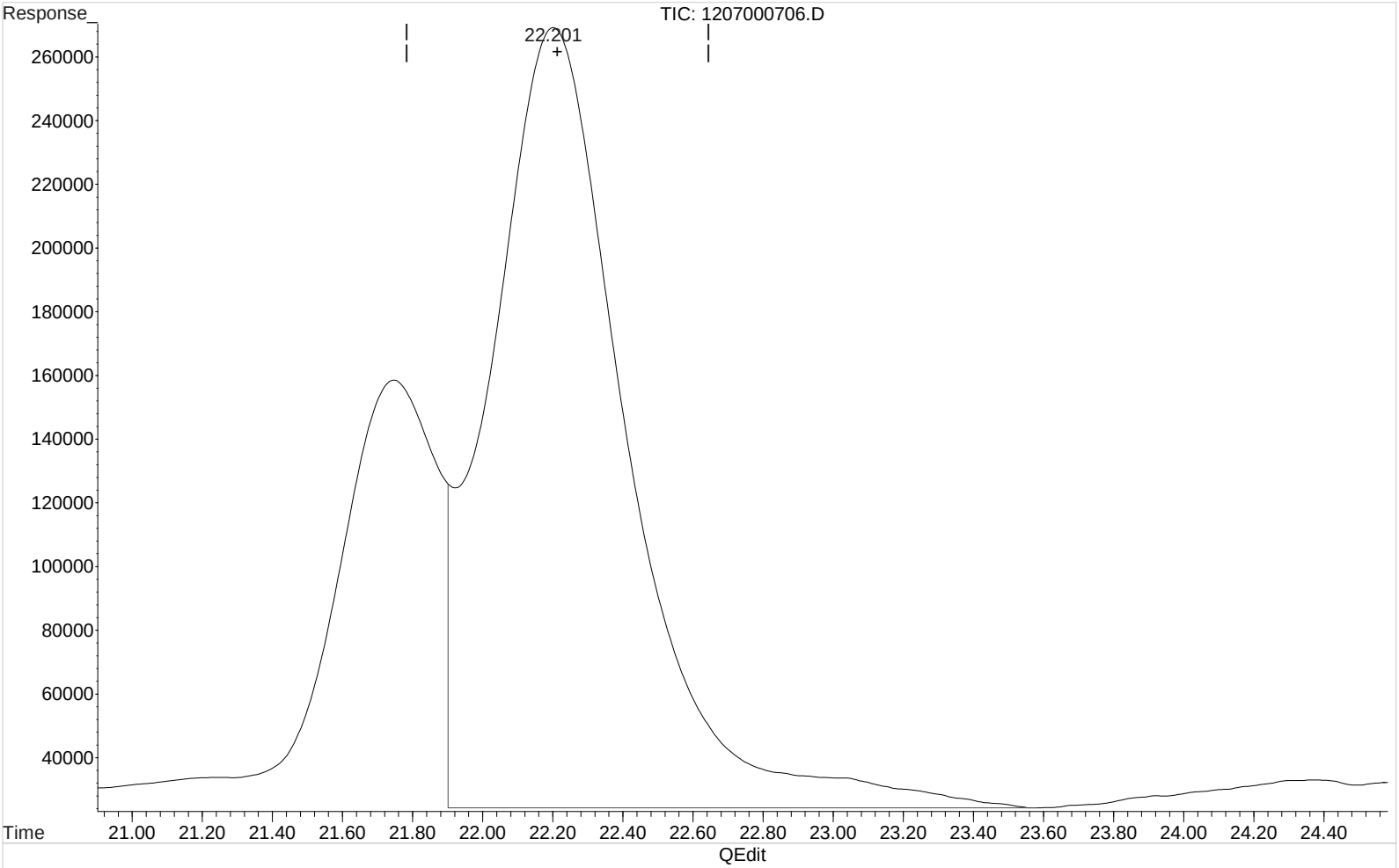
Quantitation Report (Qedit)

(b) (6)
1st [redacted] 2/08/16
2n [redacted] 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.201min 114.241 ug/L

response 6665030

Manual Integration:

Before

12/08/16

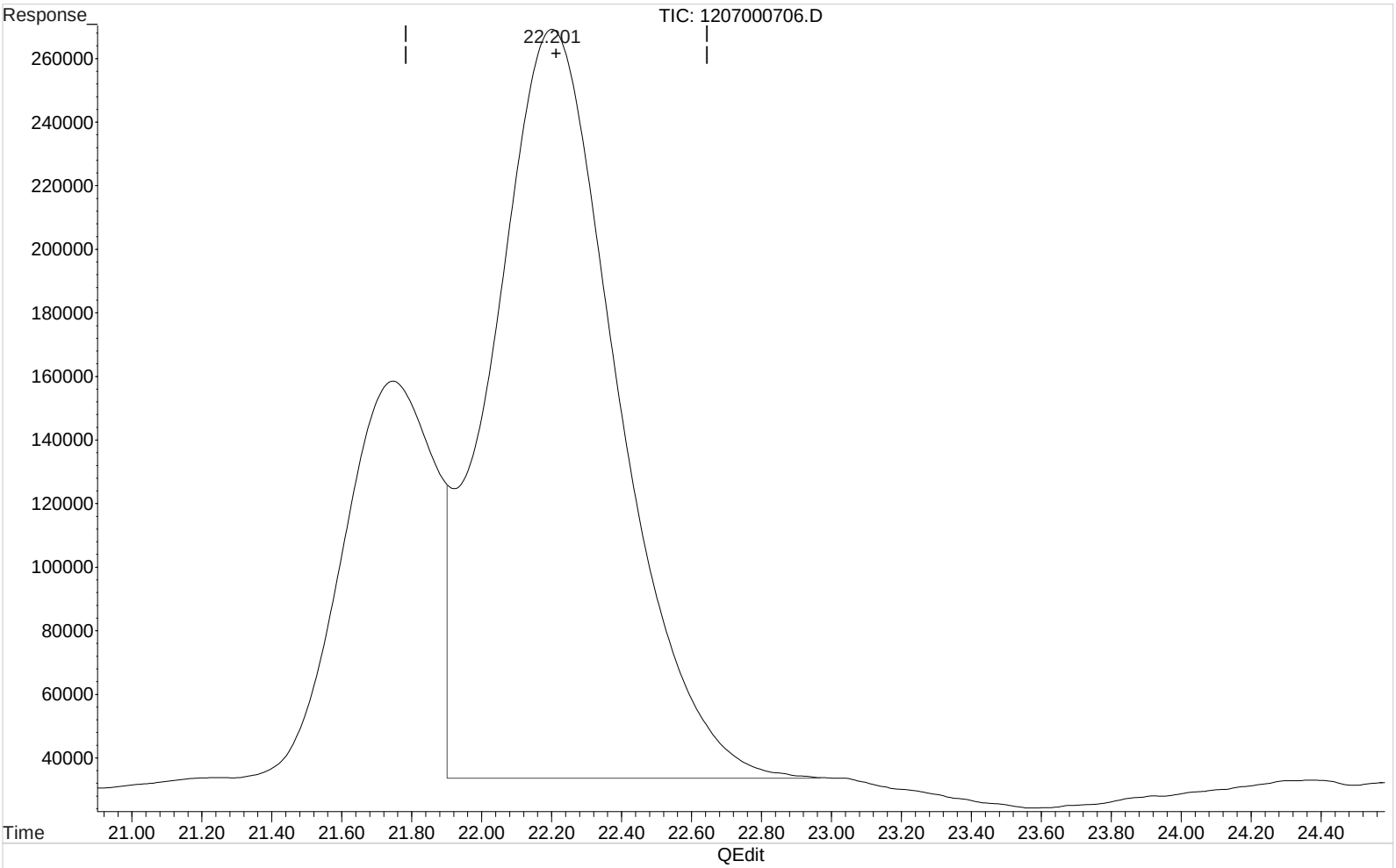
(+) = Expected Retention Time

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.201min 101.023 ug/L m

response 5893843

Manual Integration:

After

BLC

12/08/16

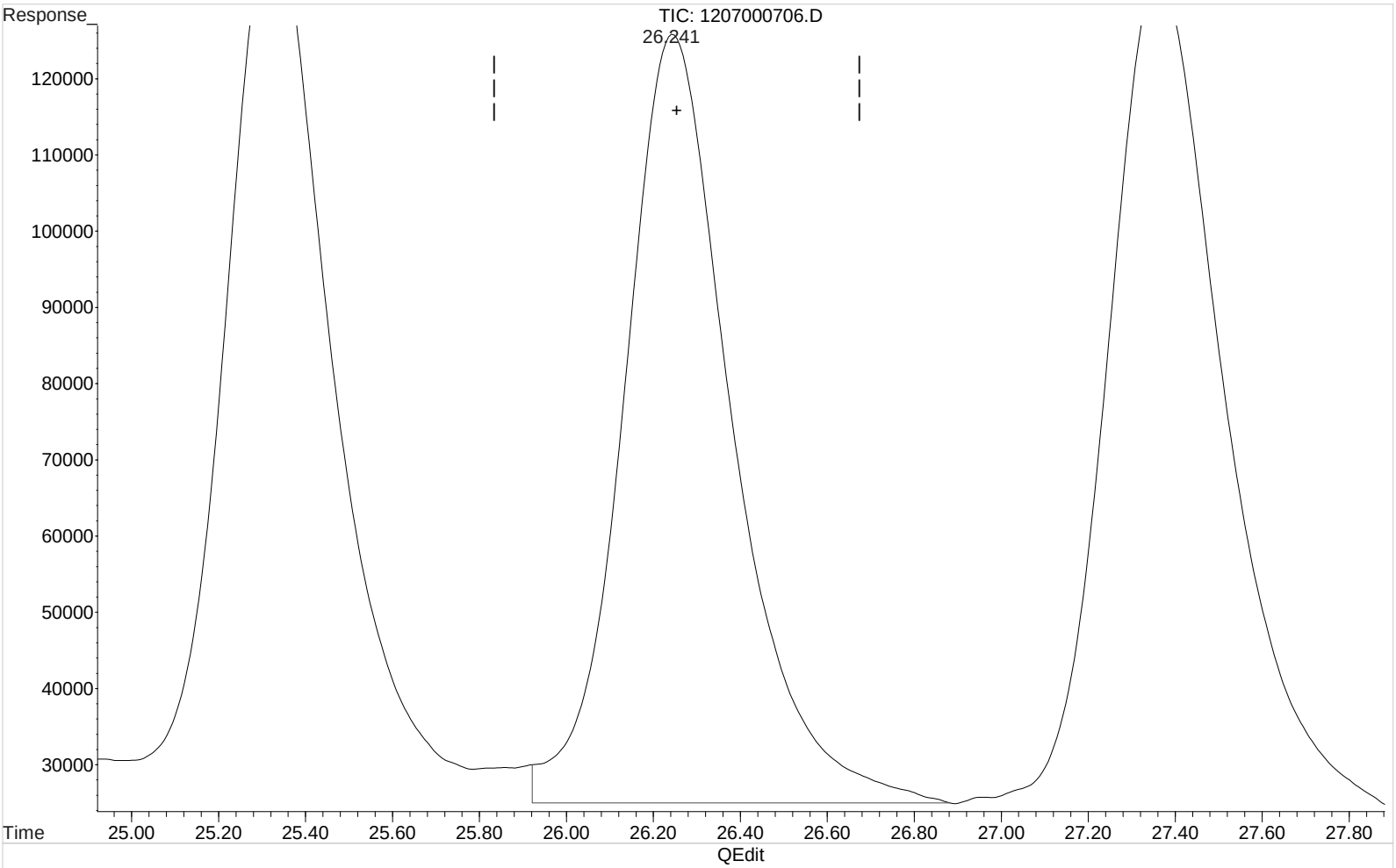
(+) = Expected Retention Time

(b) (6)
1st 12/08/16
2n 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.241min 109.482 ug/L

response 1758863

Manual Integration:

Before

12/08/16

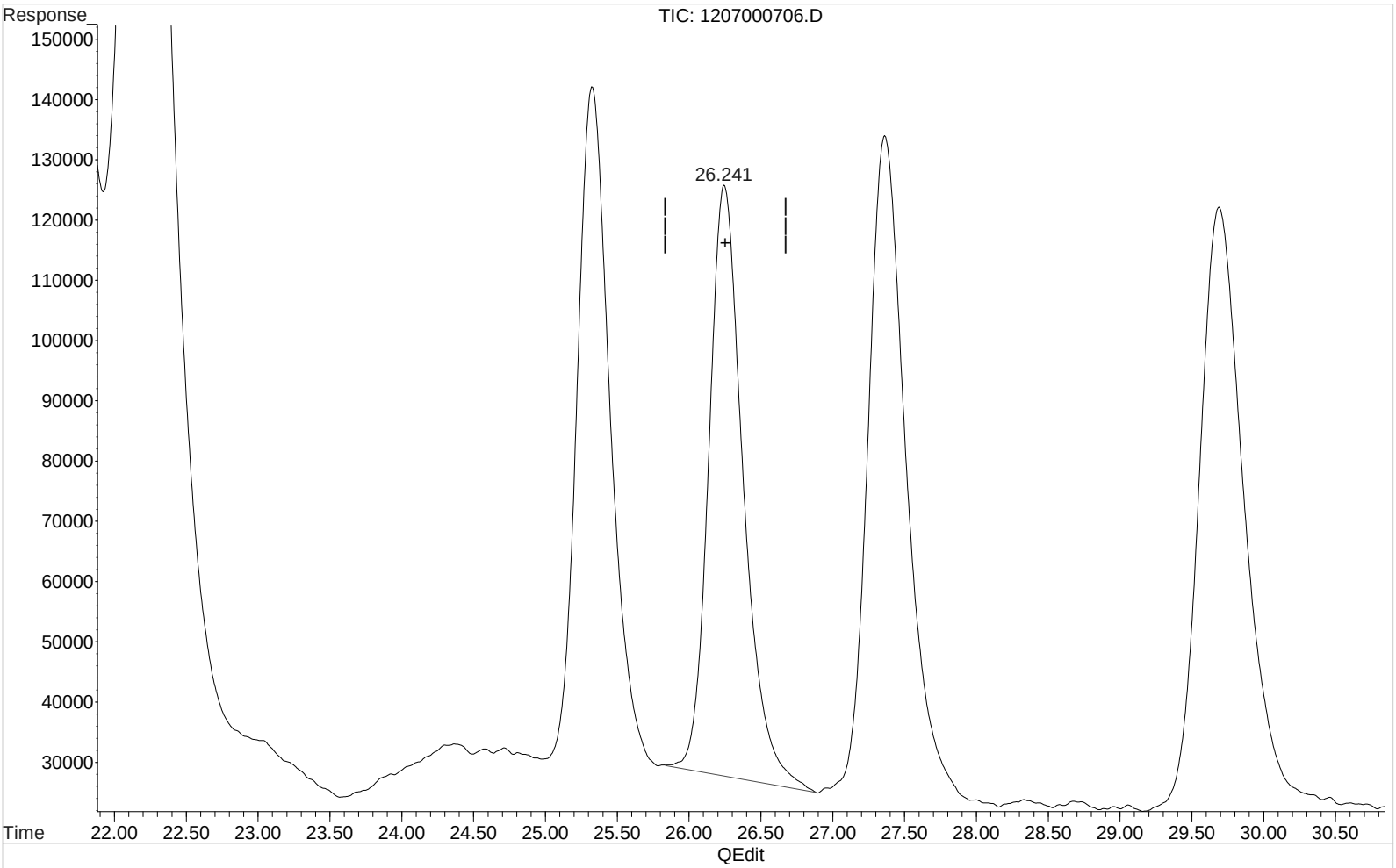
(+) = Expected Retention Time

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(16) 4-NT (T)

26.241min 102.283 ug/L m

response 1643208

Manual Integration:

After

BLC

12/08/16

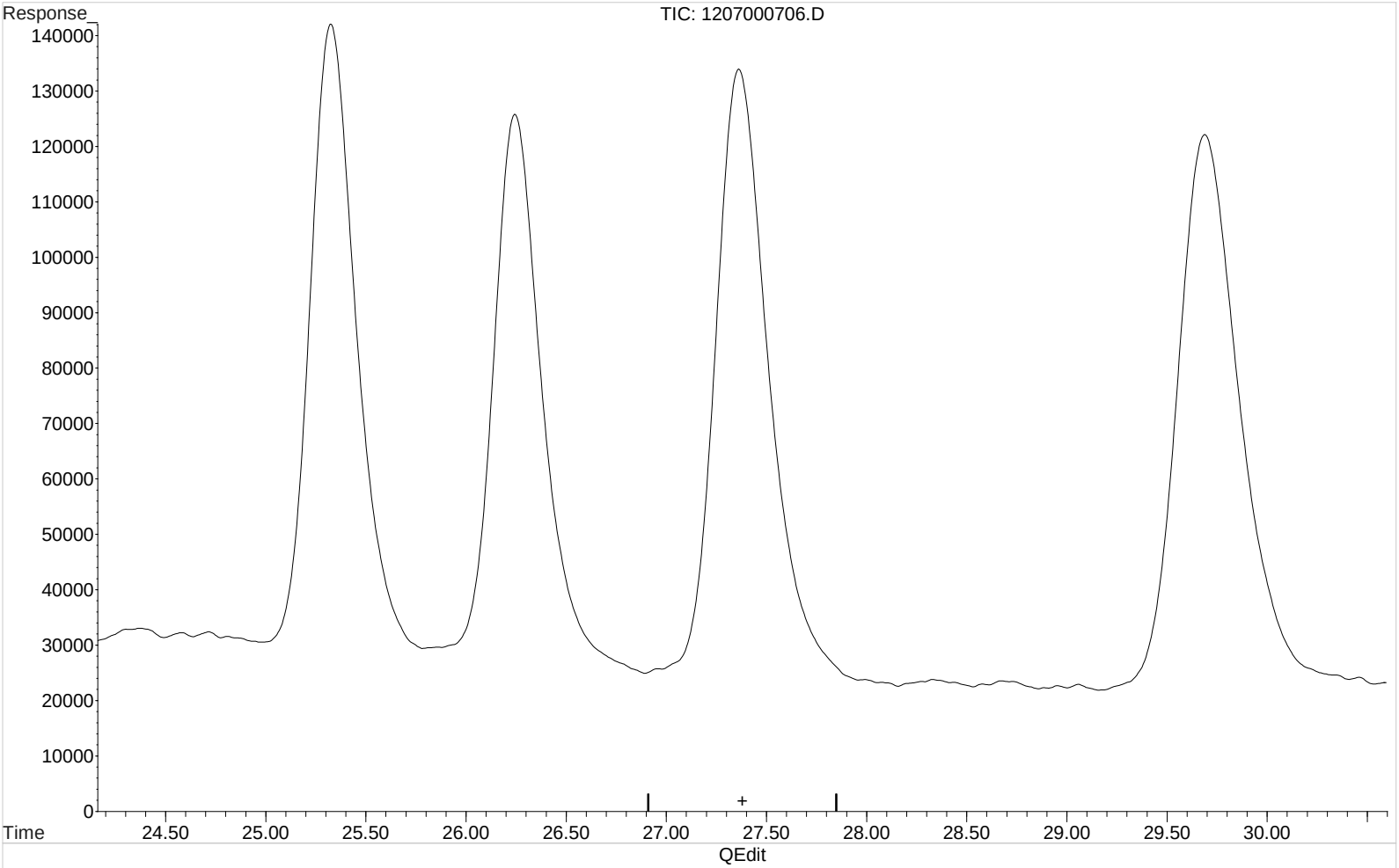
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

0.000min 0.000 ug/L d

response 0

Manual Integration:

Before

12/08/16

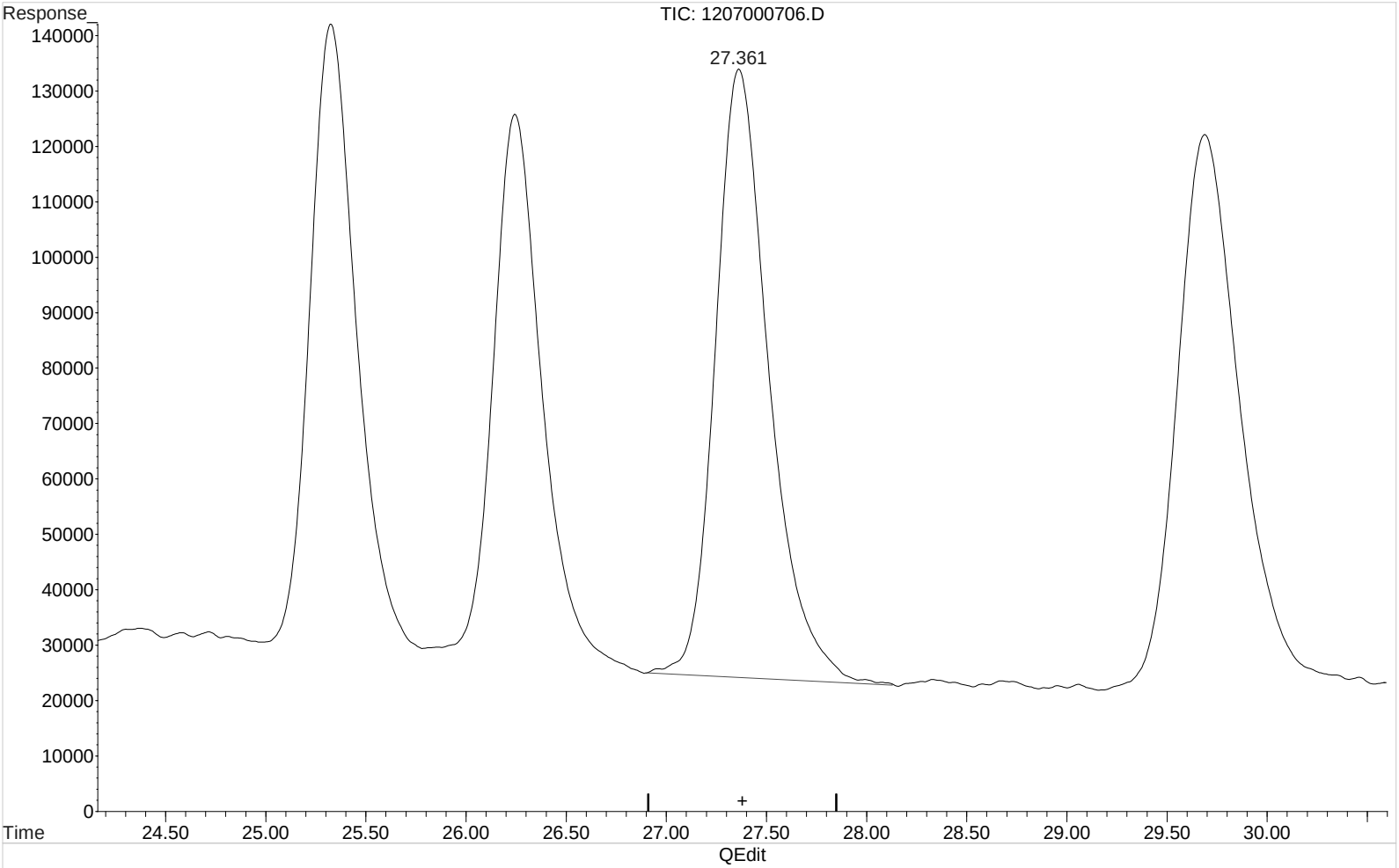
(+) = Expected Retention Time

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.361min 101.964 ug/L m

response 2049432

Manual Integration:

After

Accidentally deleted, reintegrated

12/08/16

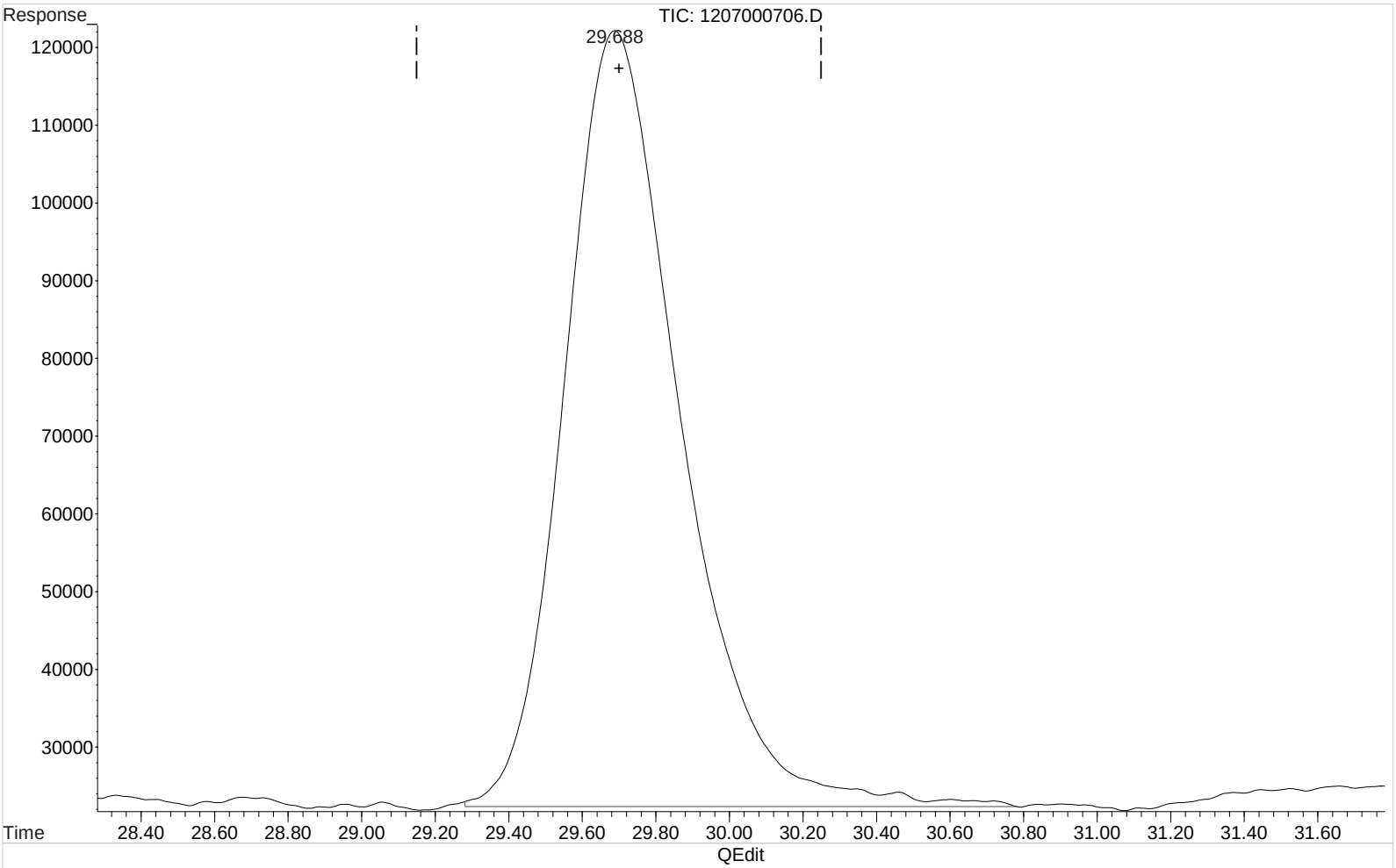
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(18) 1-Chloro-3-Nitrobenzene (S)

29.688min 97.323 ug/L

response 2195729

Manual Integration:

Before

12/08/16

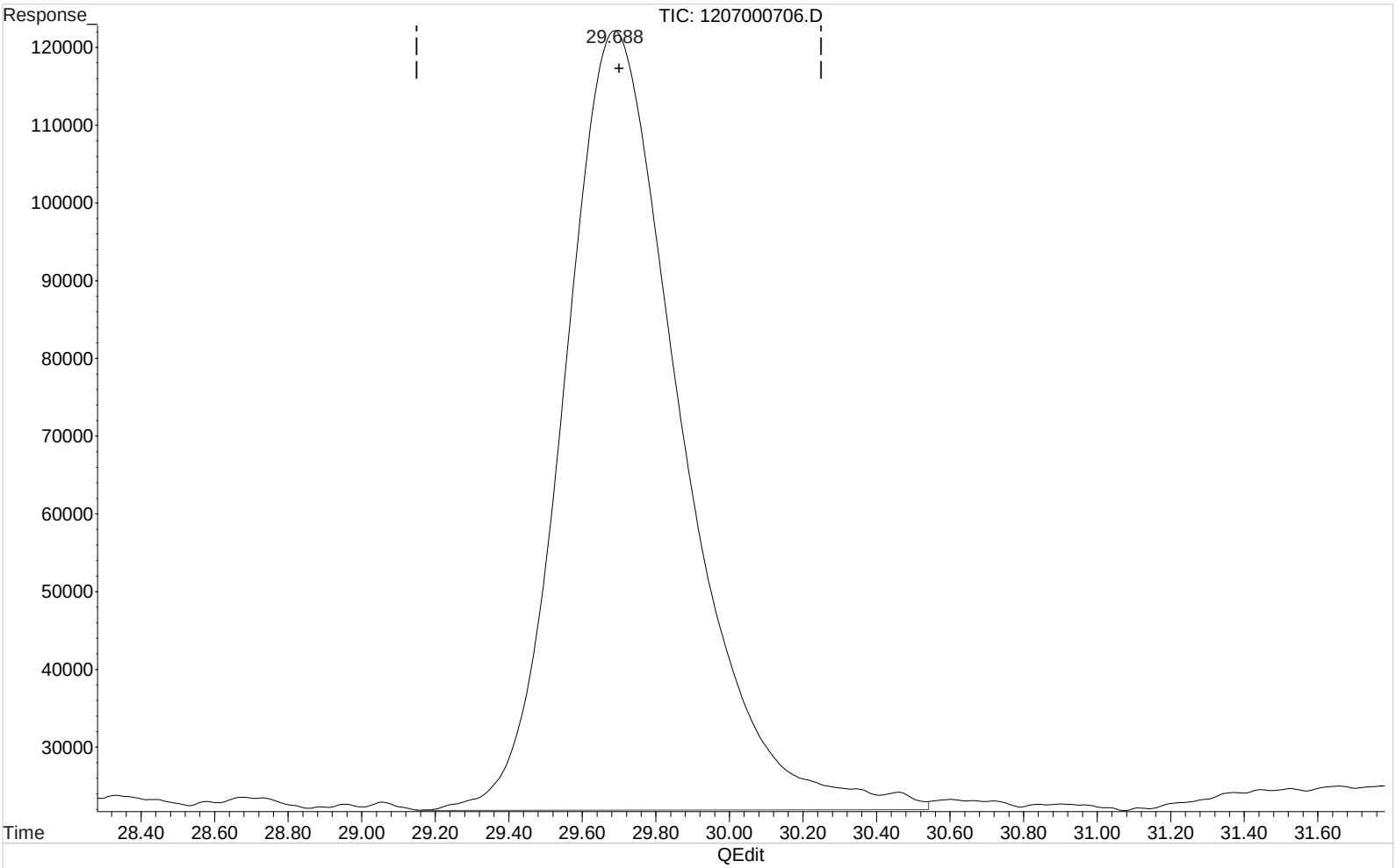
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(18) 1-Chloro-3-Nitrobenzene (S)

29.688min 98.517 ug/L m

response 2222660

Manual Integration:

After

BLC

12/08/16

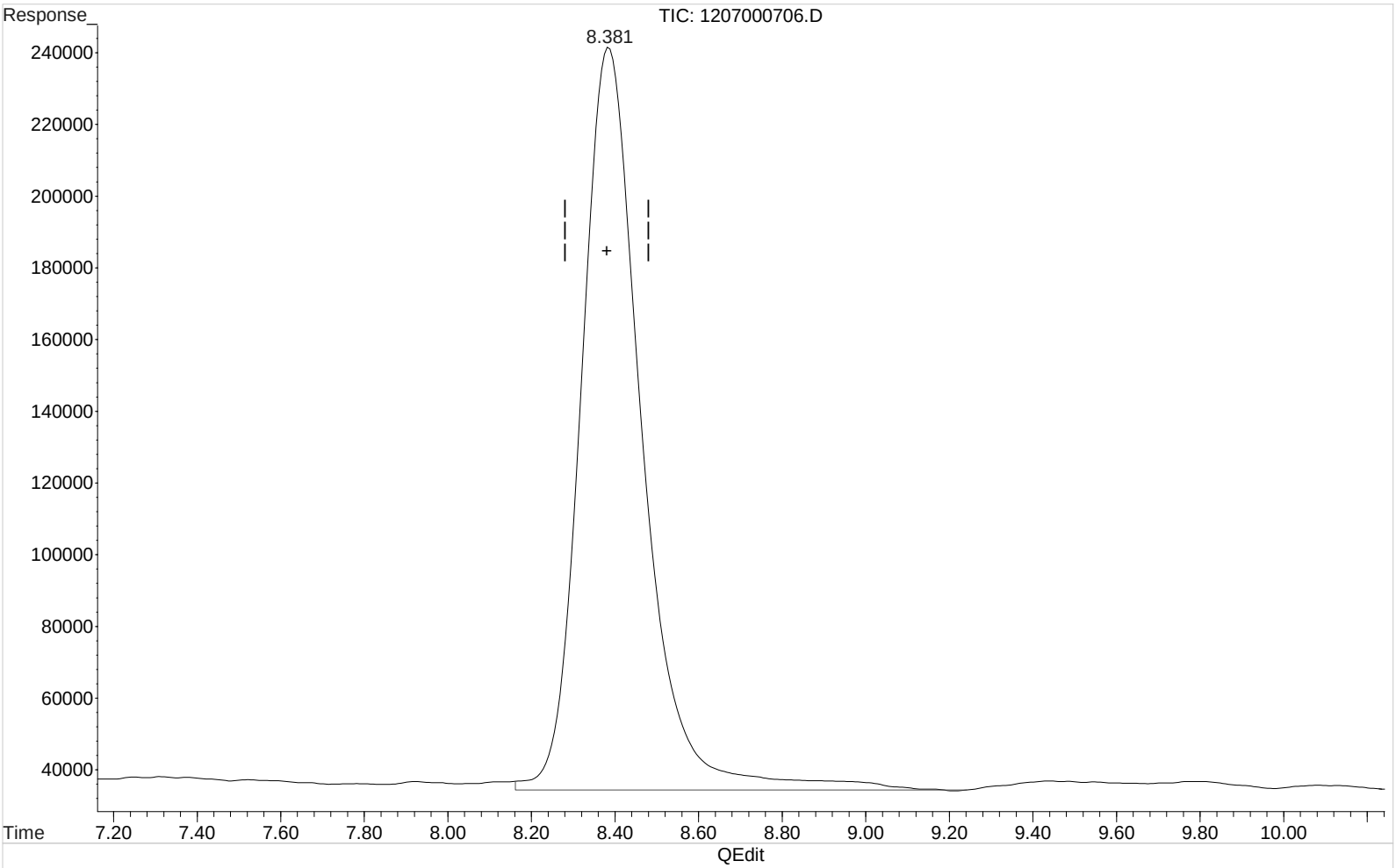
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(4) RDX (T)

8.381min 104.100 ug/L

response 2112981

Manual Integration:

Before

12/08/16

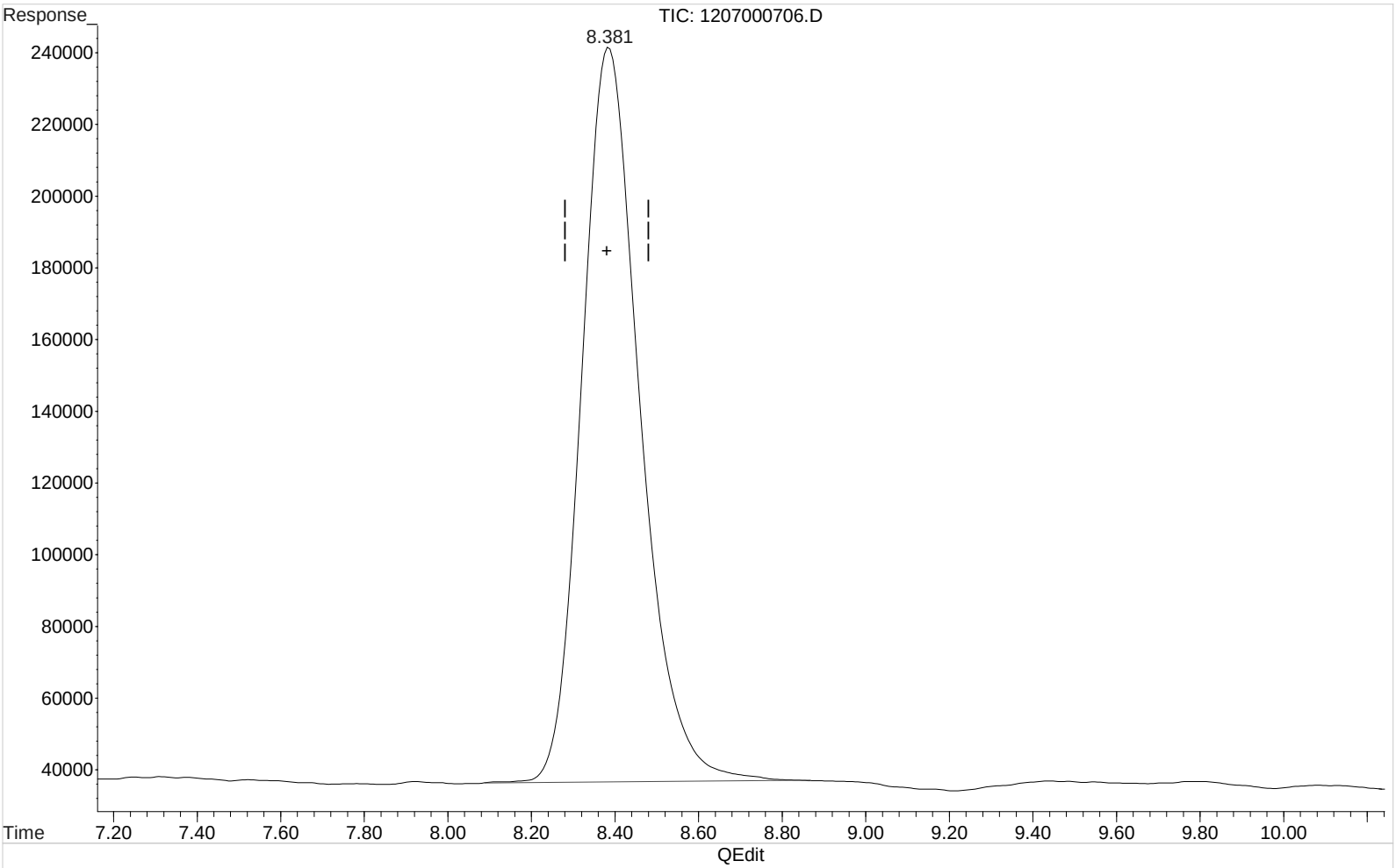
(+) = Expected Retention Time

1st (b) (6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(4) RDX (T)

8.381min 97.807 ug/L m

response 1985238

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b)(6)

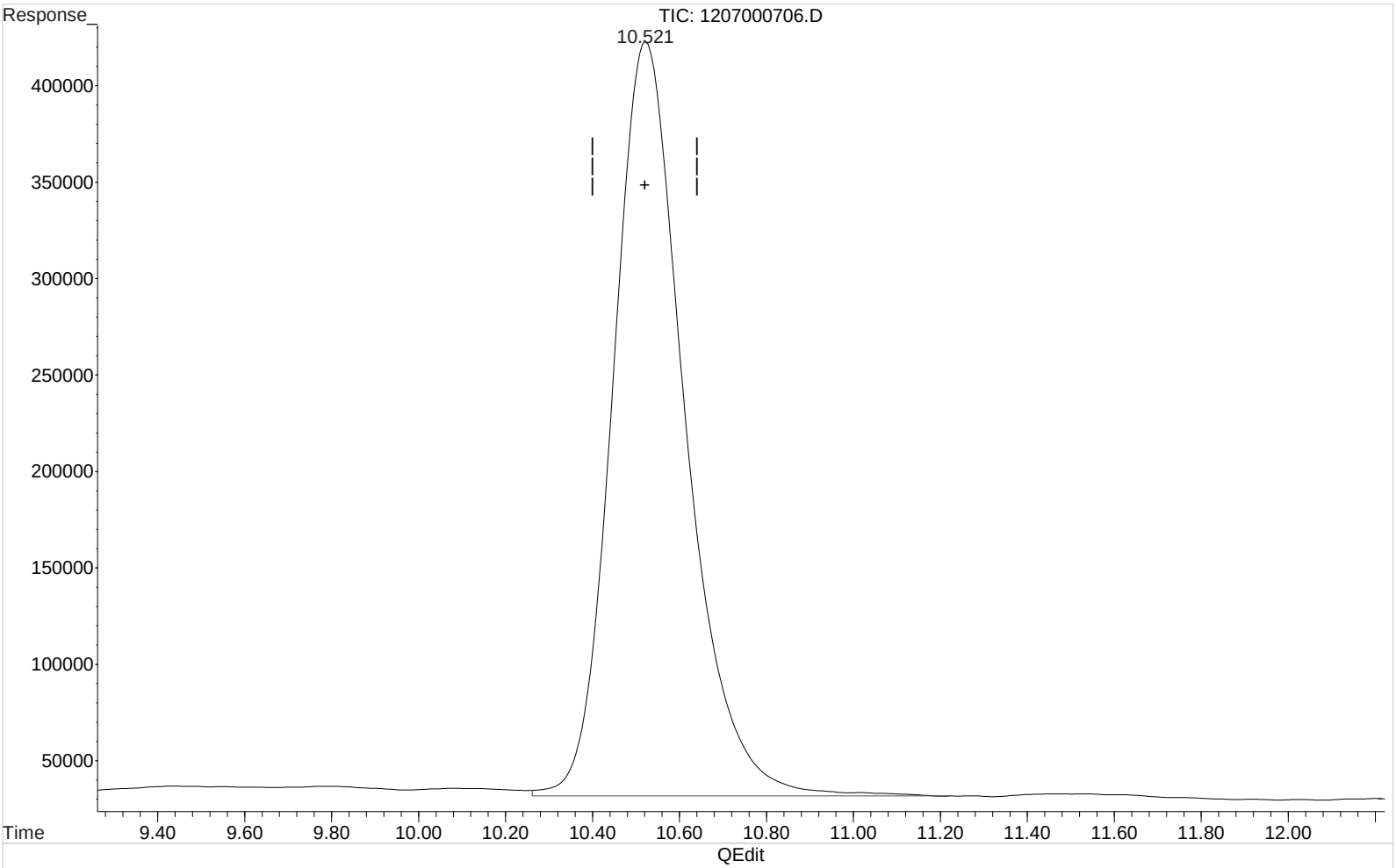
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(5) 1,3,5-TNB (T)

10.521min 99.668 ug/L

response 4529404

Manual Integration:

Before

12/08/16

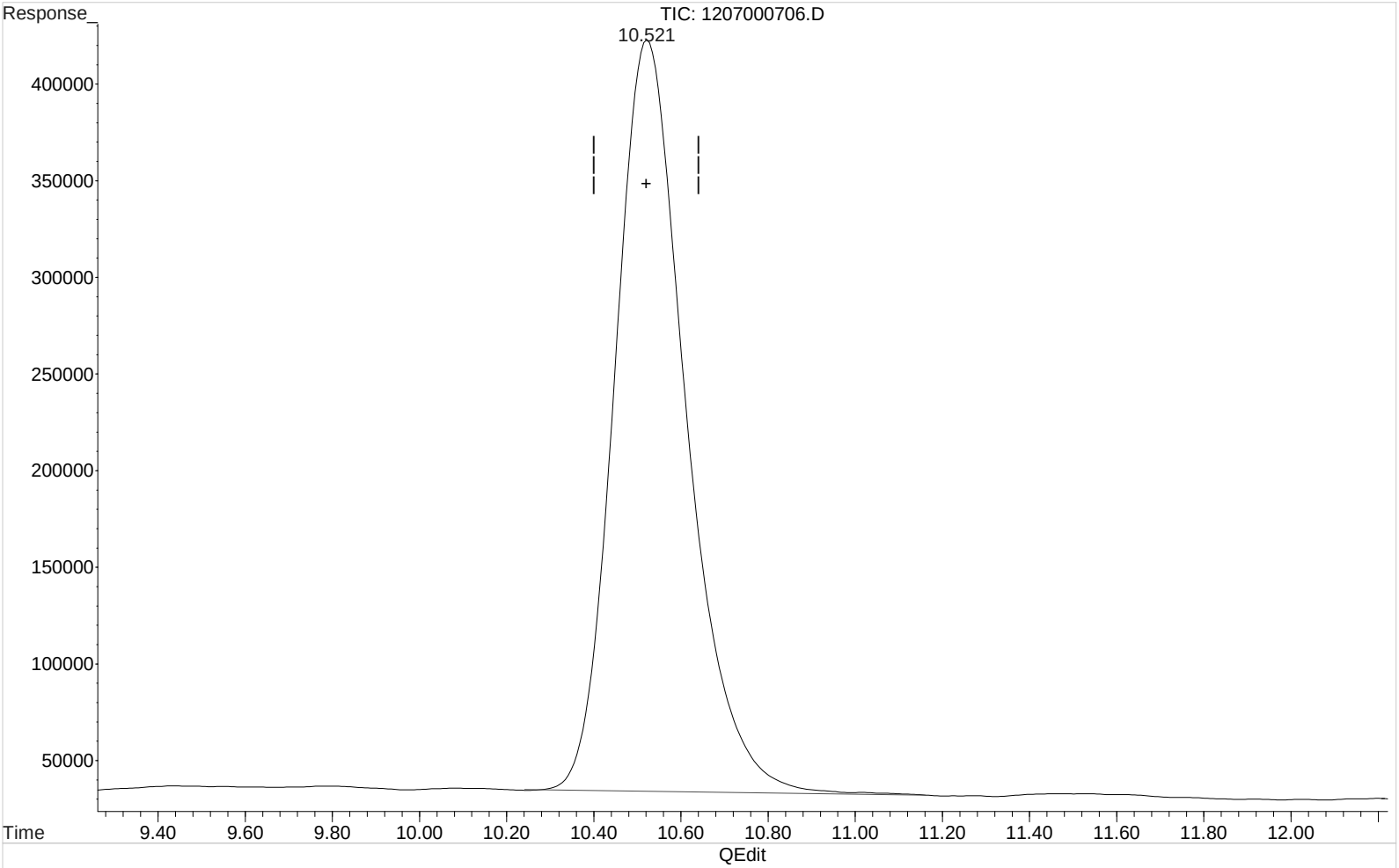
(+) = Expected Retention Time

1st (b) (6) 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(5) 1,3,5-TNB (T)

10.521min 97.549 ug/L m

response 4433120

Manual Integration:

After

BLC

12/08/16

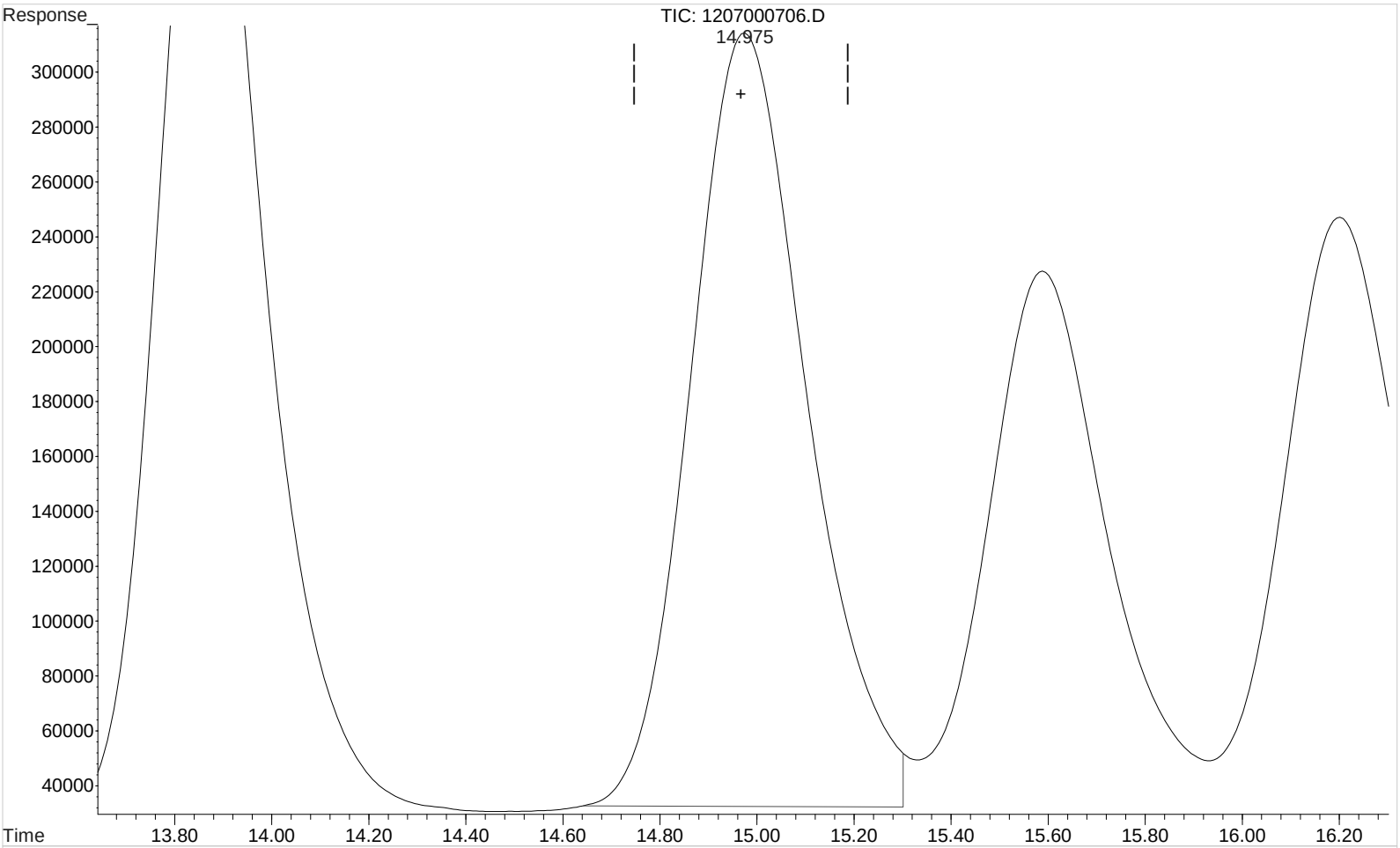
(+) = Expected Retention Time

(b) (6)
1st [redacted] 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.975min 97.288 ug/L

response 4690794

Manual Integration:

Before

12/08/16

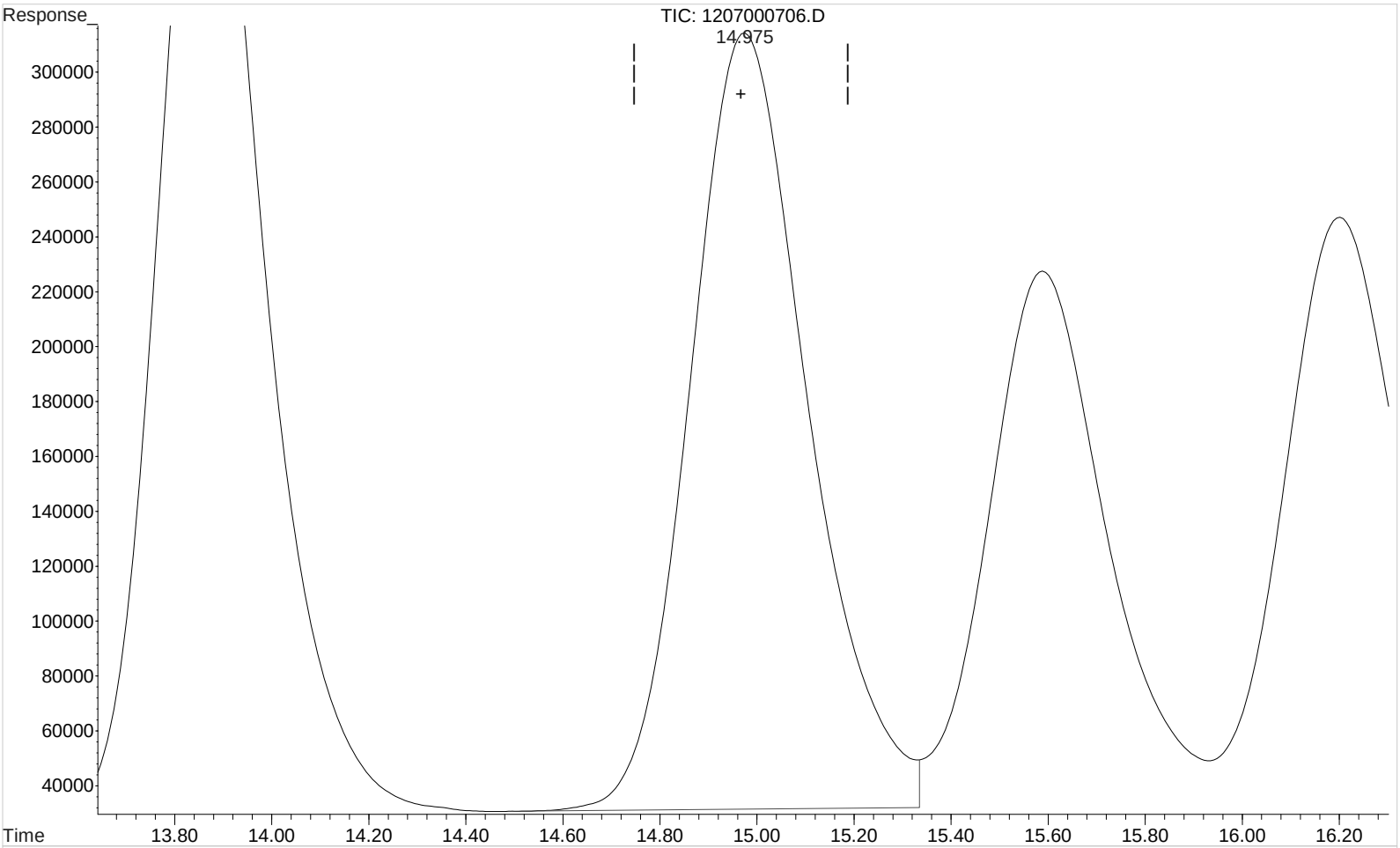
(+) = Expected Retention Time

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.975min 98.935 ug/L m

response 4770181

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b)(6)

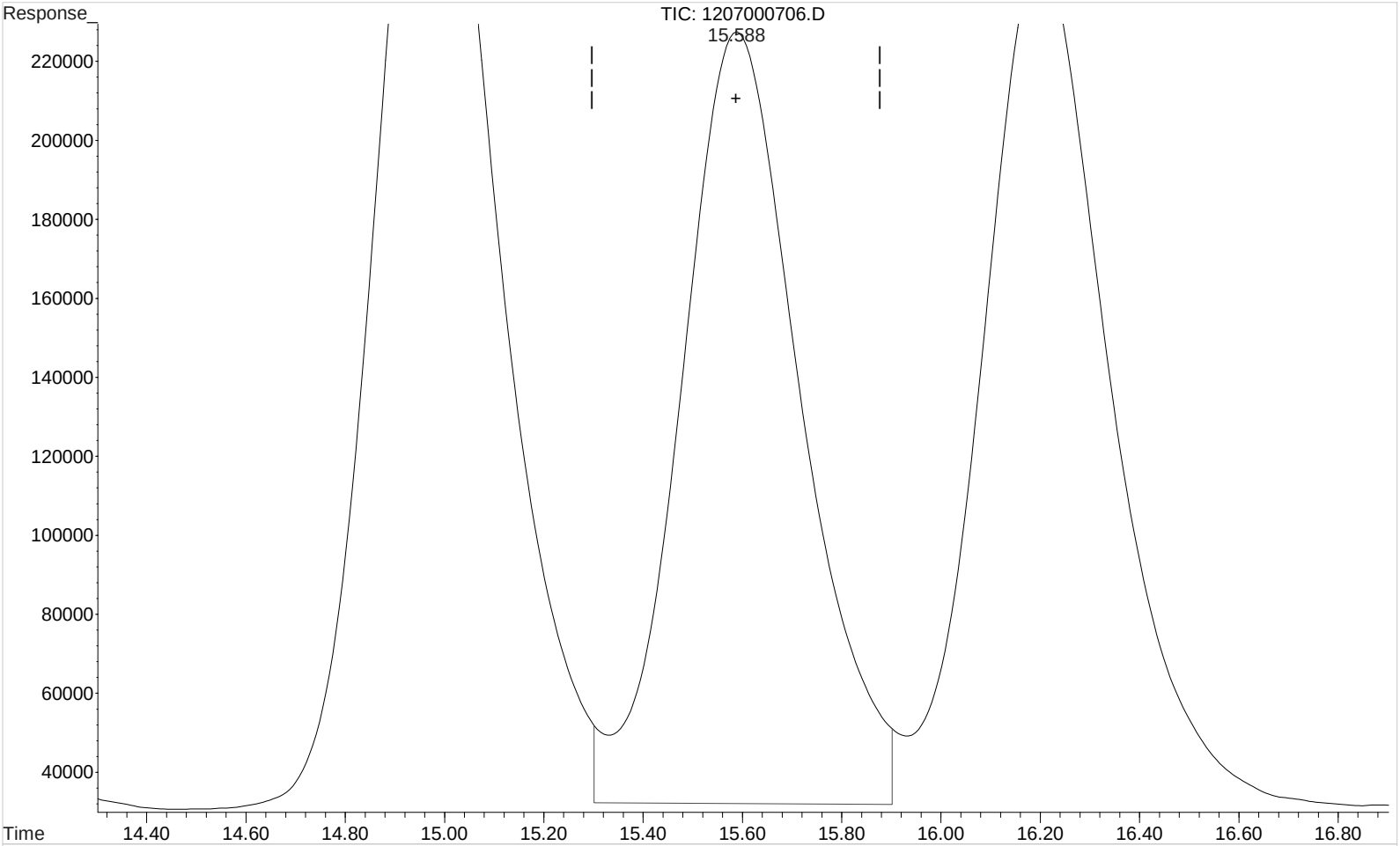
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(8) Tetryl (T)

15.588min 97.618 ug/L

response 3280904

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

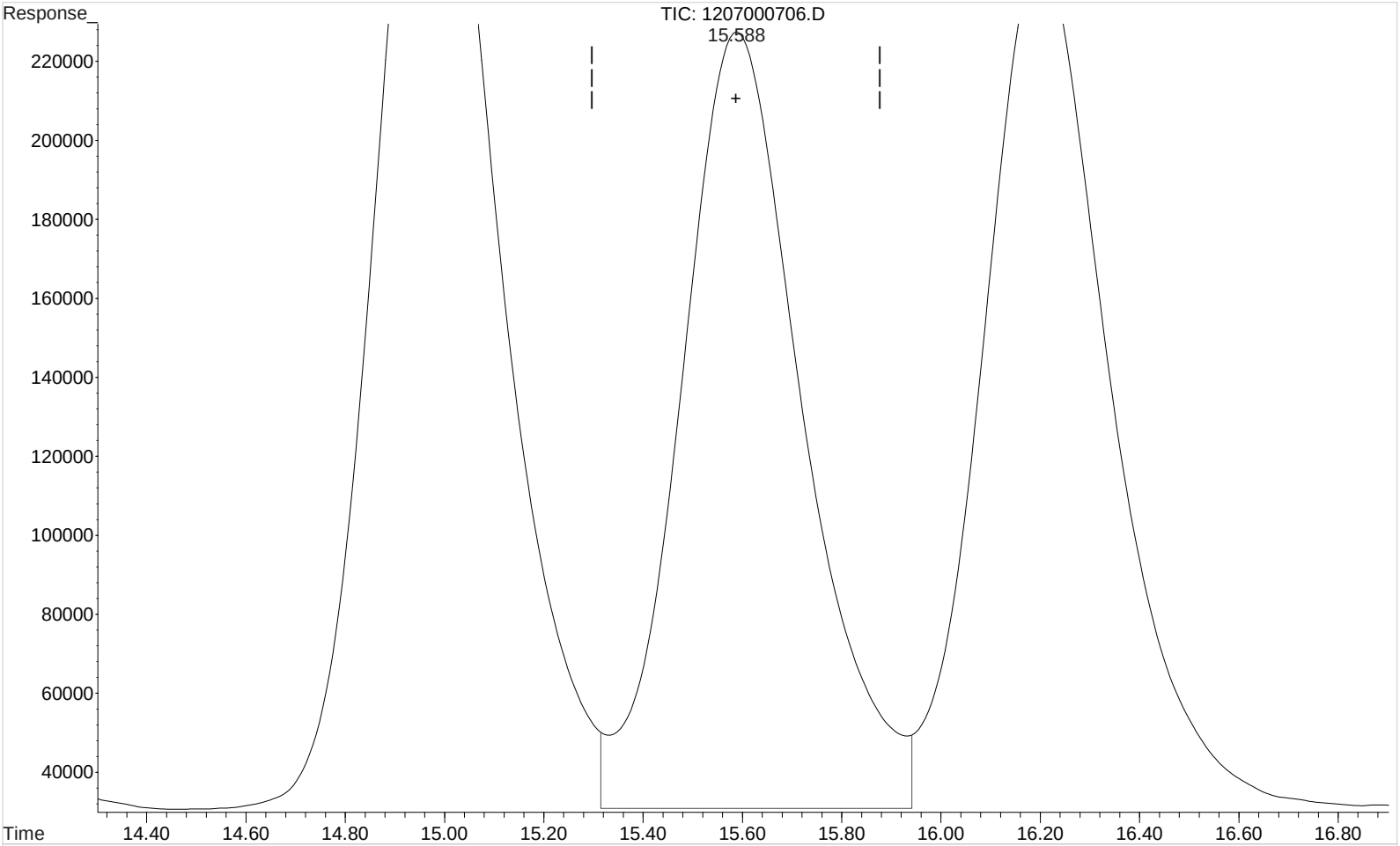
Quantitation Report (Qedit)

1st (b)(6) 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(8) Tetryl (T)

15.588min 99.774 ug/L m

response 3353341

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (Qedit)

(b)(6)

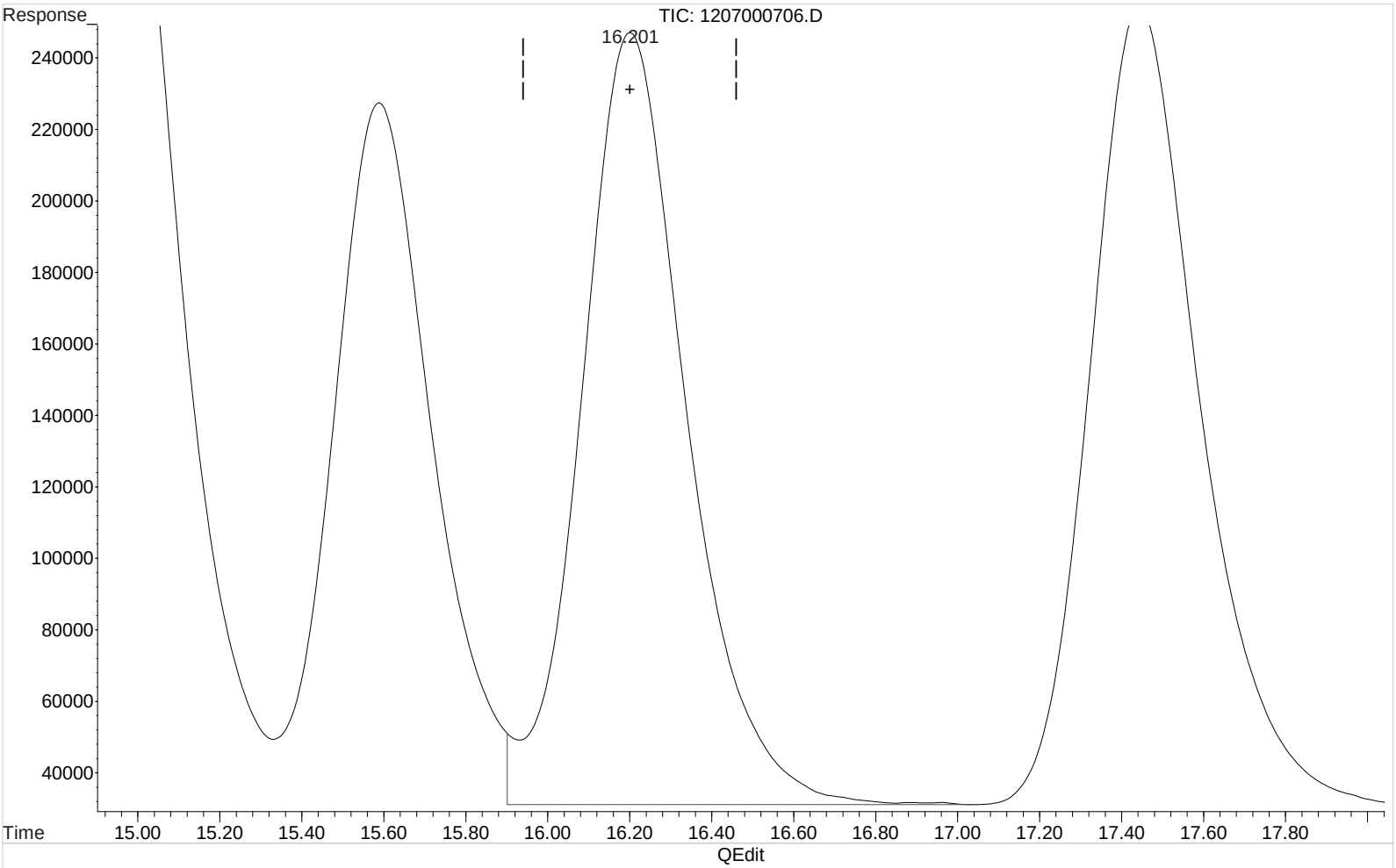
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.201min 97.938 ug/L

response 3839592

Manual Integration:

Before

12/08/16

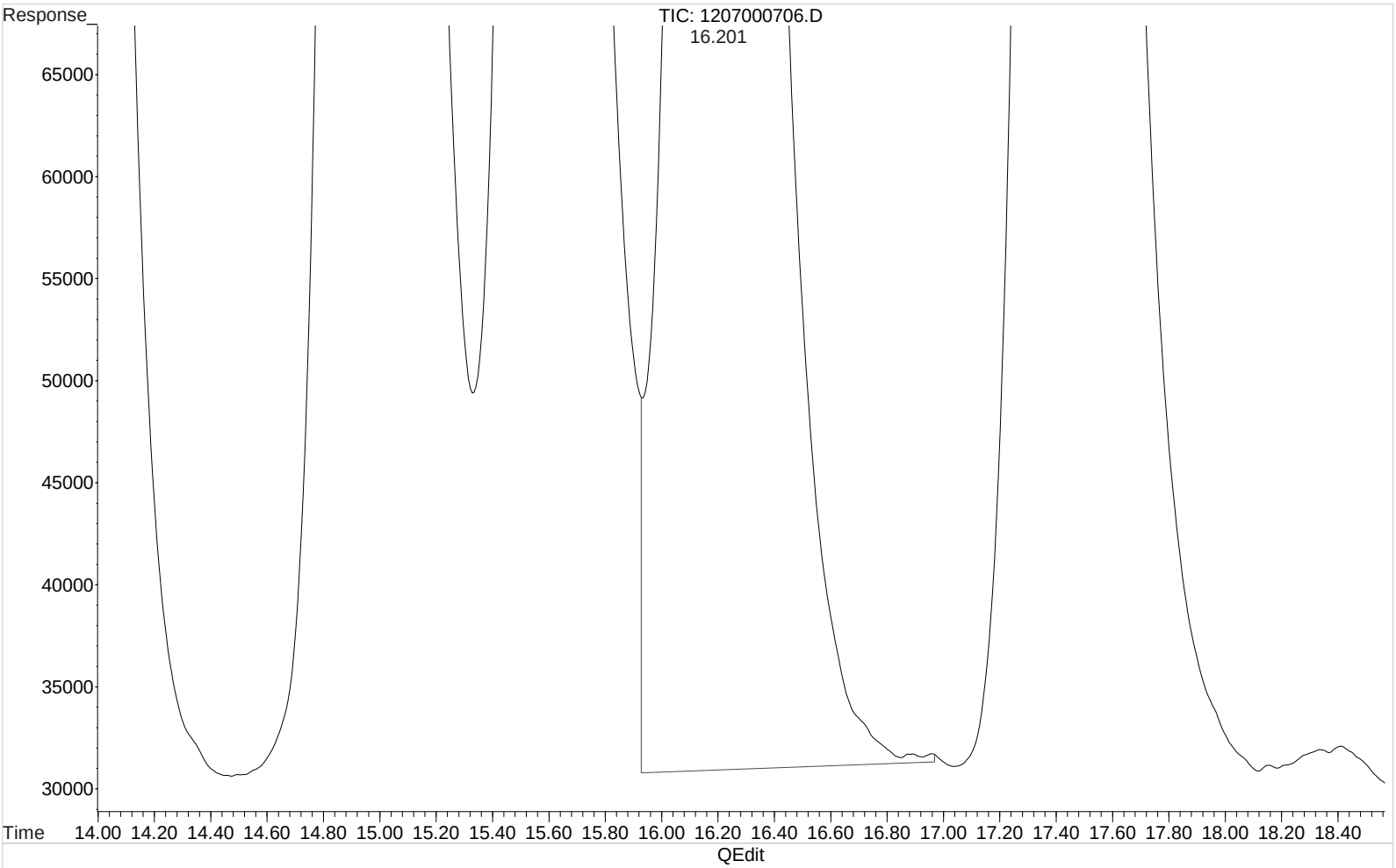
(+) = Expected Retention Time

1st (b)(6) 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.201min 97.226 ug/L m

response 3811670

Manual Integration:

Before

12/08/16

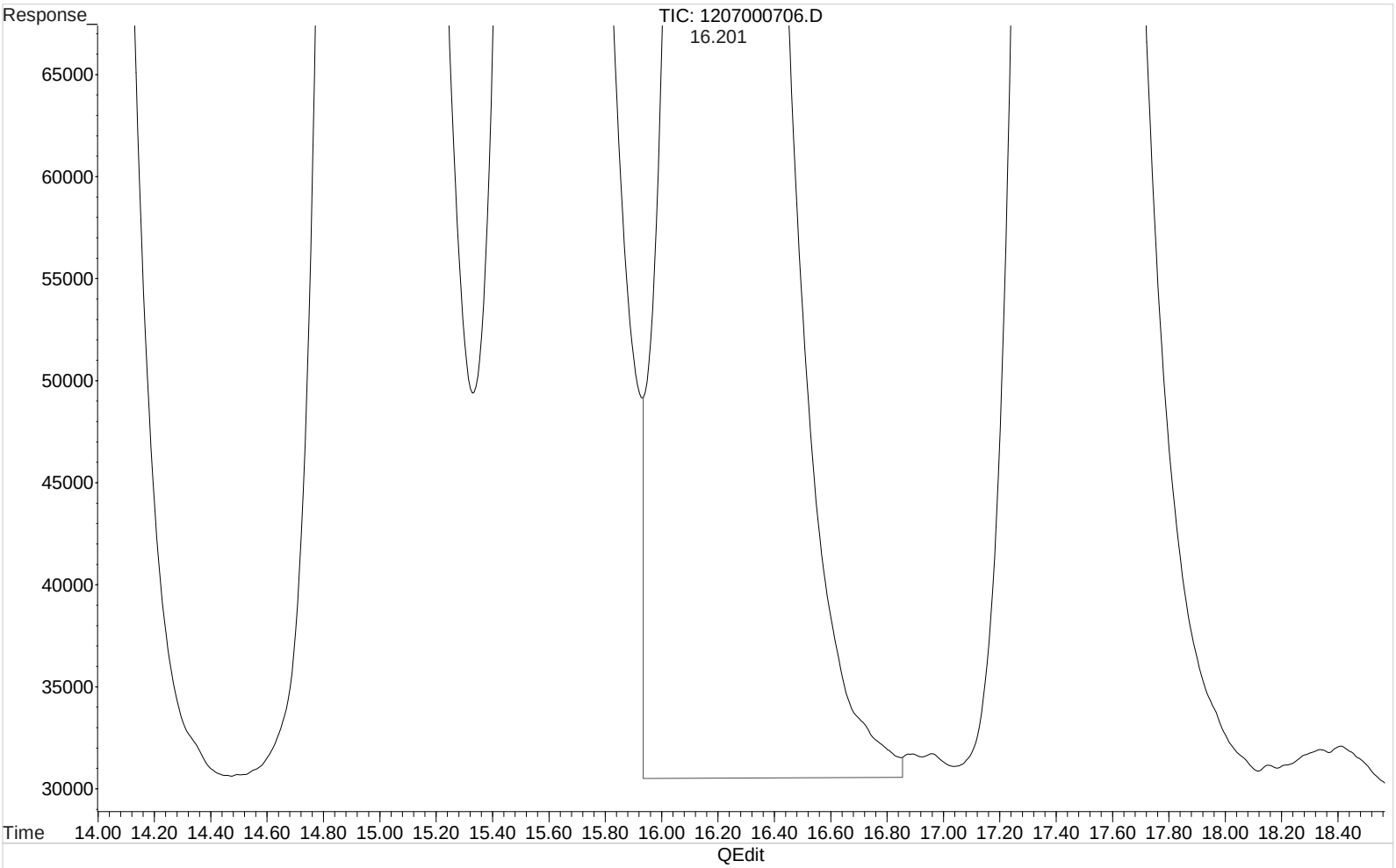
(+) = Expected Retention Time

(b) (6)
1st 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000706.D Vial: 5
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 21:25:22 Operator: AE
Sample : ICAL 100 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:01:59 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:01:19 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.201min 97.660 ug/L m

response 3828698

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:13:39 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
18)	S	1-Chloro-3-Nitrobenzene	29.700	4361045	194.259	ug/L	m
		Target Compounds					
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	4.786	2435762	205.004	ug/L	
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	8.386	3921355	194.616	ug/L	
5)	T	1,3,5-TNB	10.520	8886477	197.154	ug/L	
6)	T	1,3-DNB	13.866	12031824	196.315	ug/L	
7)	T	3,5-Dinitroaniline	14.980	9487220	197.468	ug/L	m
8)	T	Tetryl	15.593	6714428	199.929	ug/L	m
9)	T	Nitrobenzene	16.206	7632300	196.210	ug/L	m
10)	T	2,4,6-TNT	17.433	8434124	205.226	ug/L	
11)	T	4-Amino-2,6-DNT	19.193	5924218	203.601	ug/L	
12)	T	2-Amino-4,6-DNT	20.026	8501432	194.761	ug/L	
13)	T	2,6-DNT	21.753	4897380	201.372	ug/L	m
14)	T	2,4-DNT	22.206	11809220	201.727	ug/L	m
15)	T	2-NT	25.326	3610858	201.453	ug/L	m
16)	T	4-NT	26.253	3198950	197.617	ug/L	m
17)	T	3-NT	27.380	4020214	198.714	ug/L	

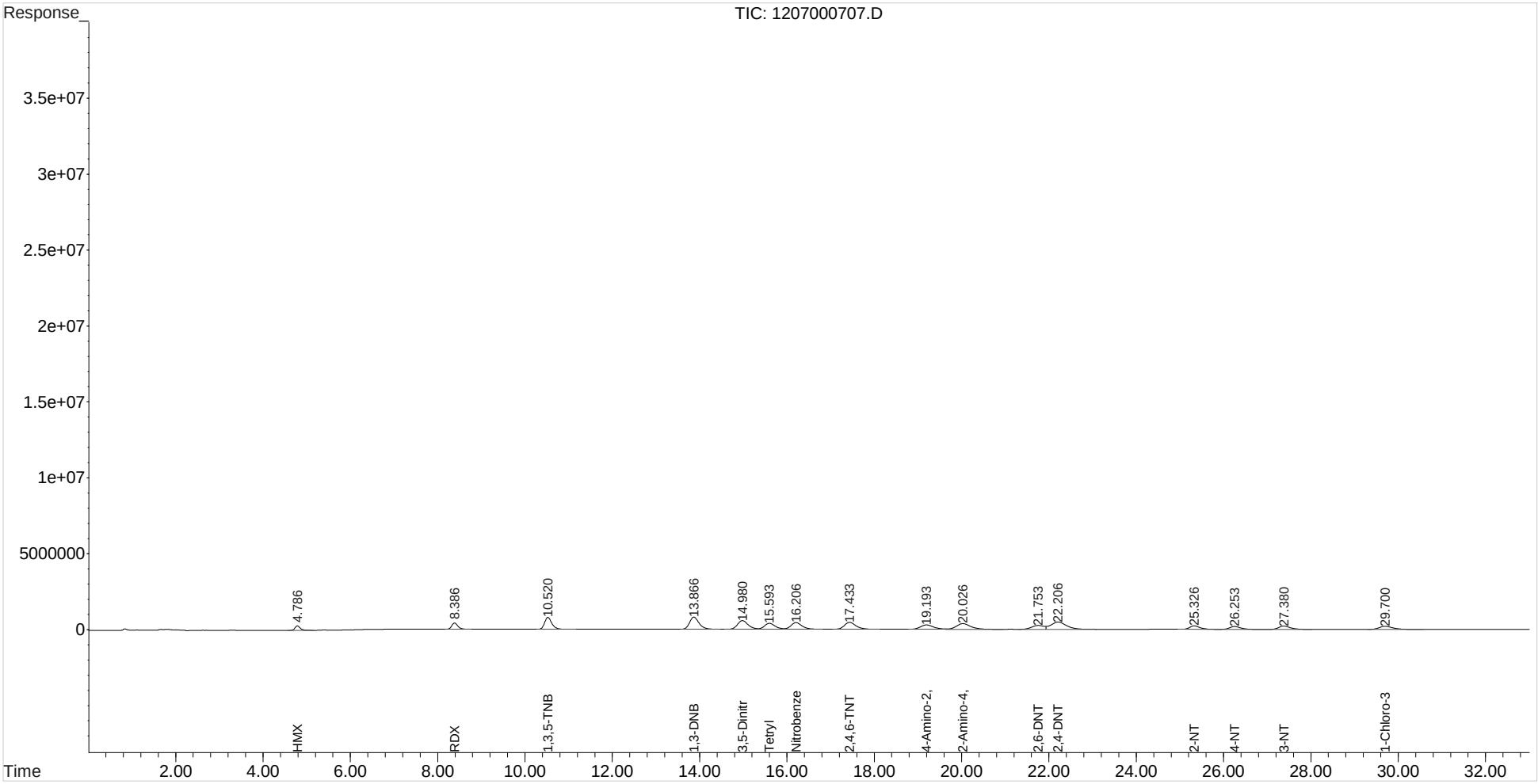
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:13:39 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(b)(6)

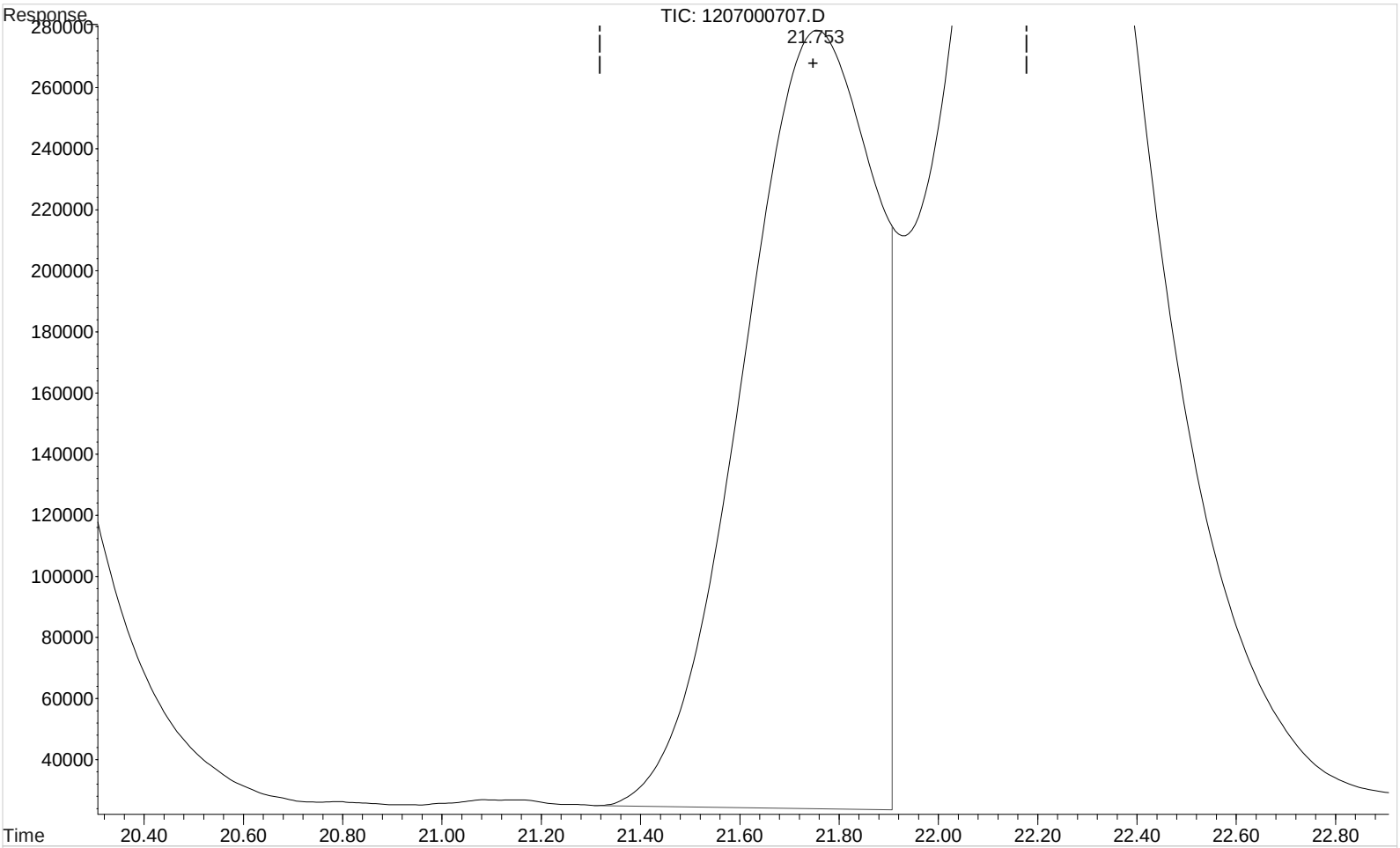
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.753min 193.577 ug/L

response 4707799

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

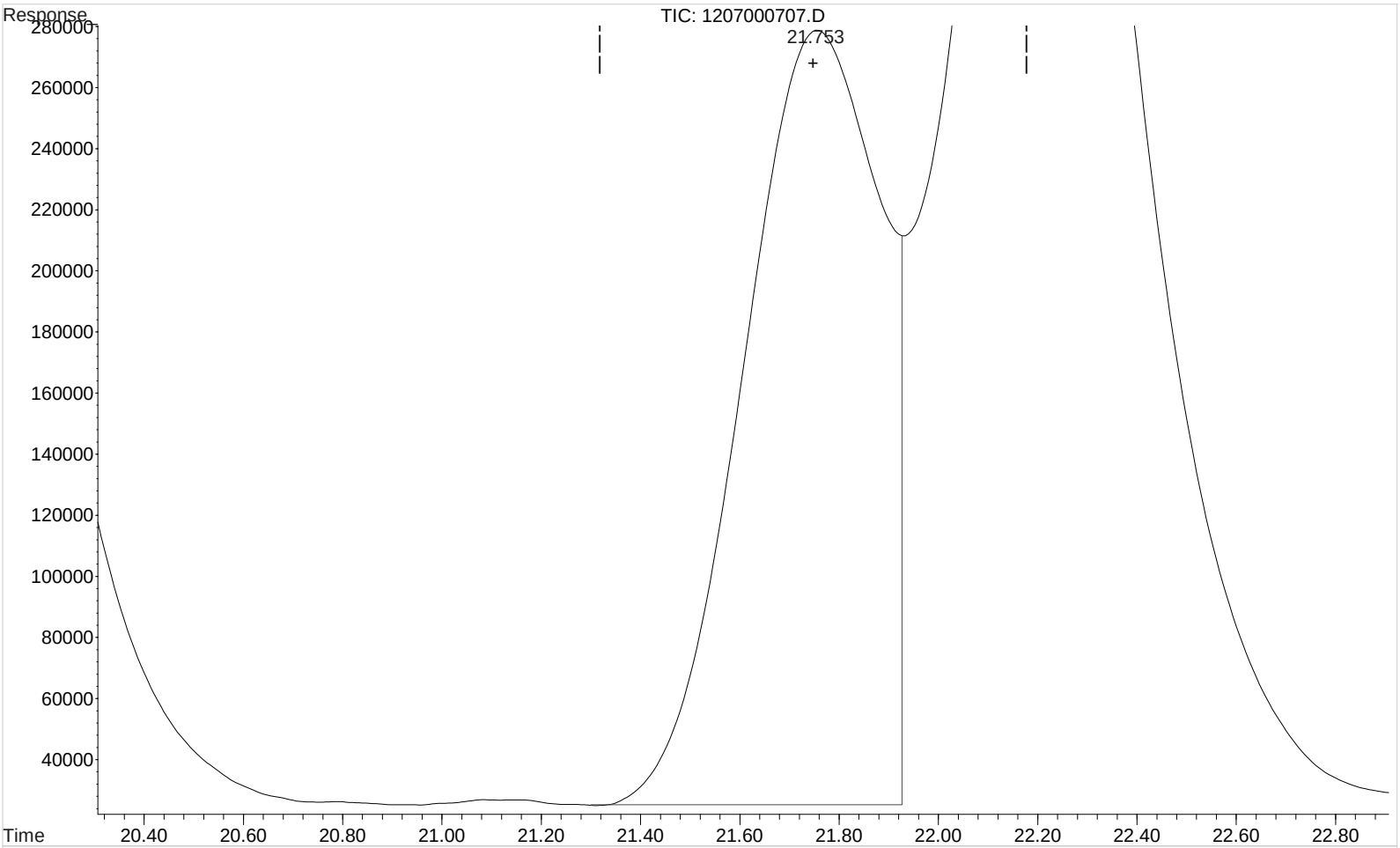
Quantitation Report (Qedit)

1st (b)(6) 12/08/16
2n 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.753min 201.372 ug/L m

response 4897380

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b)(6)

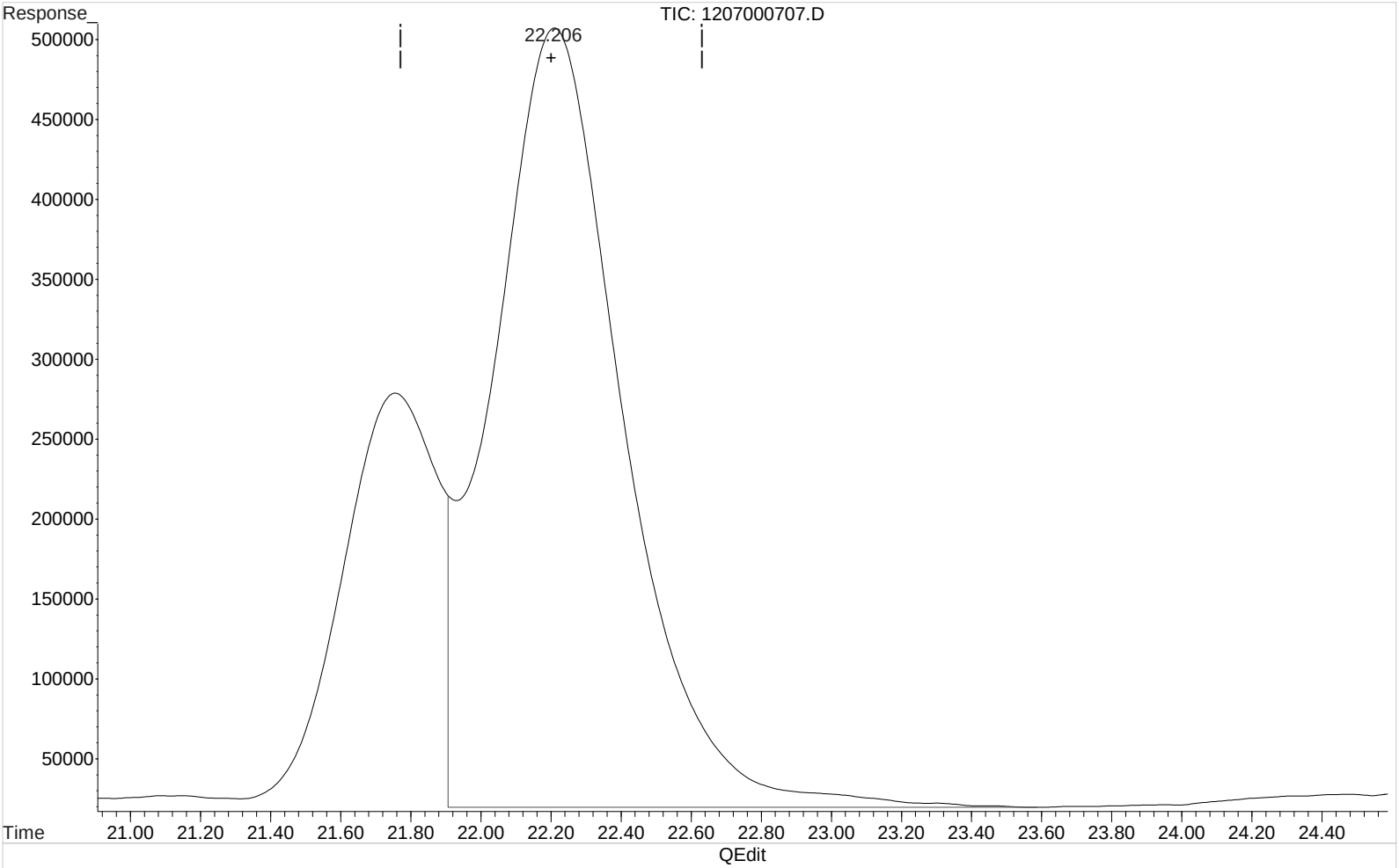
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.206min 215.947 ug/L

response 12641702

Manual Integration:

Before

12/08/16

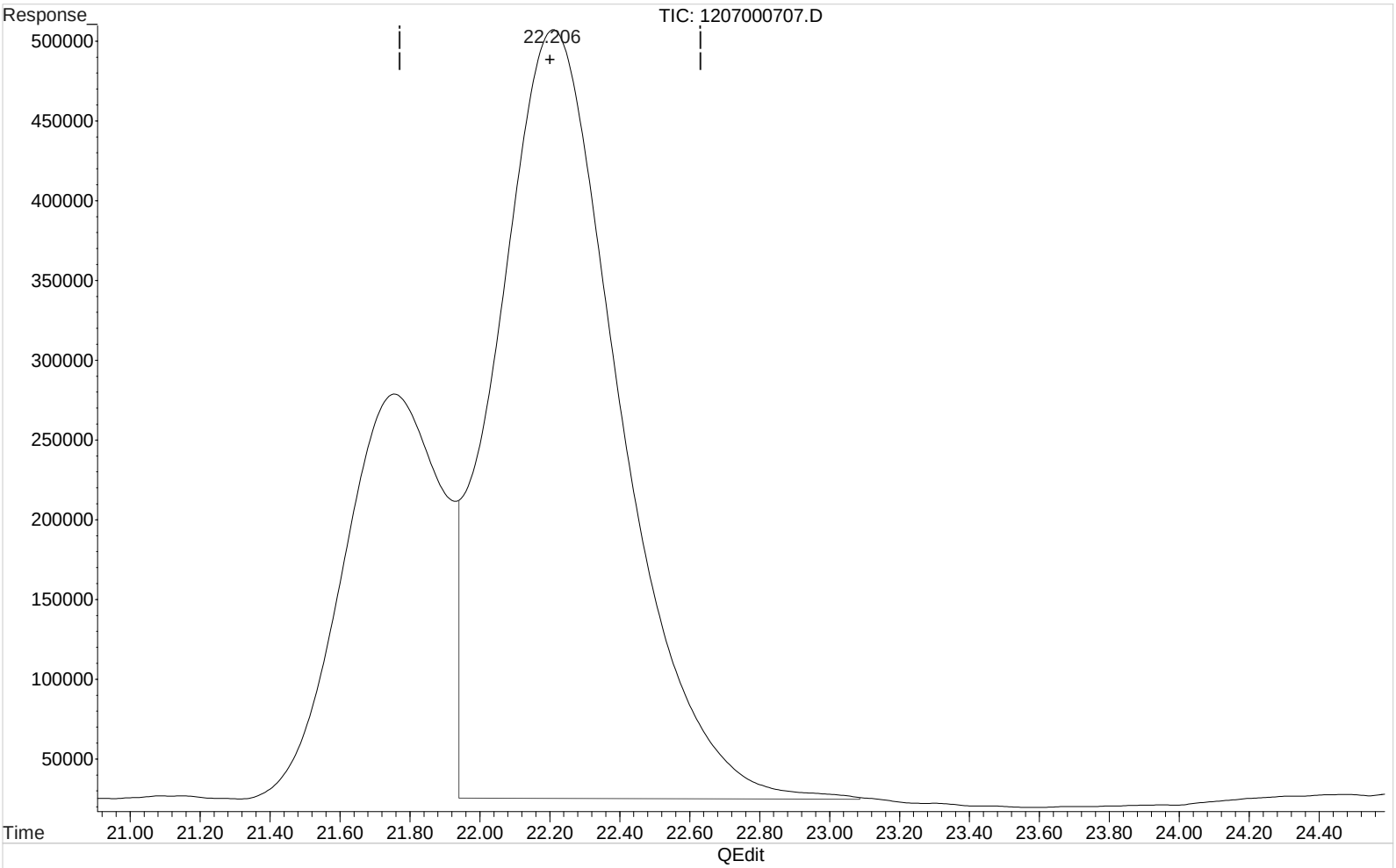
(+) = Expected Retention Time

(b) (6)
1st 2/08/16
2nd 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.206min 201.727 ug/L m

response 11809220

Manual Integration:

After

BLC

12/08/16

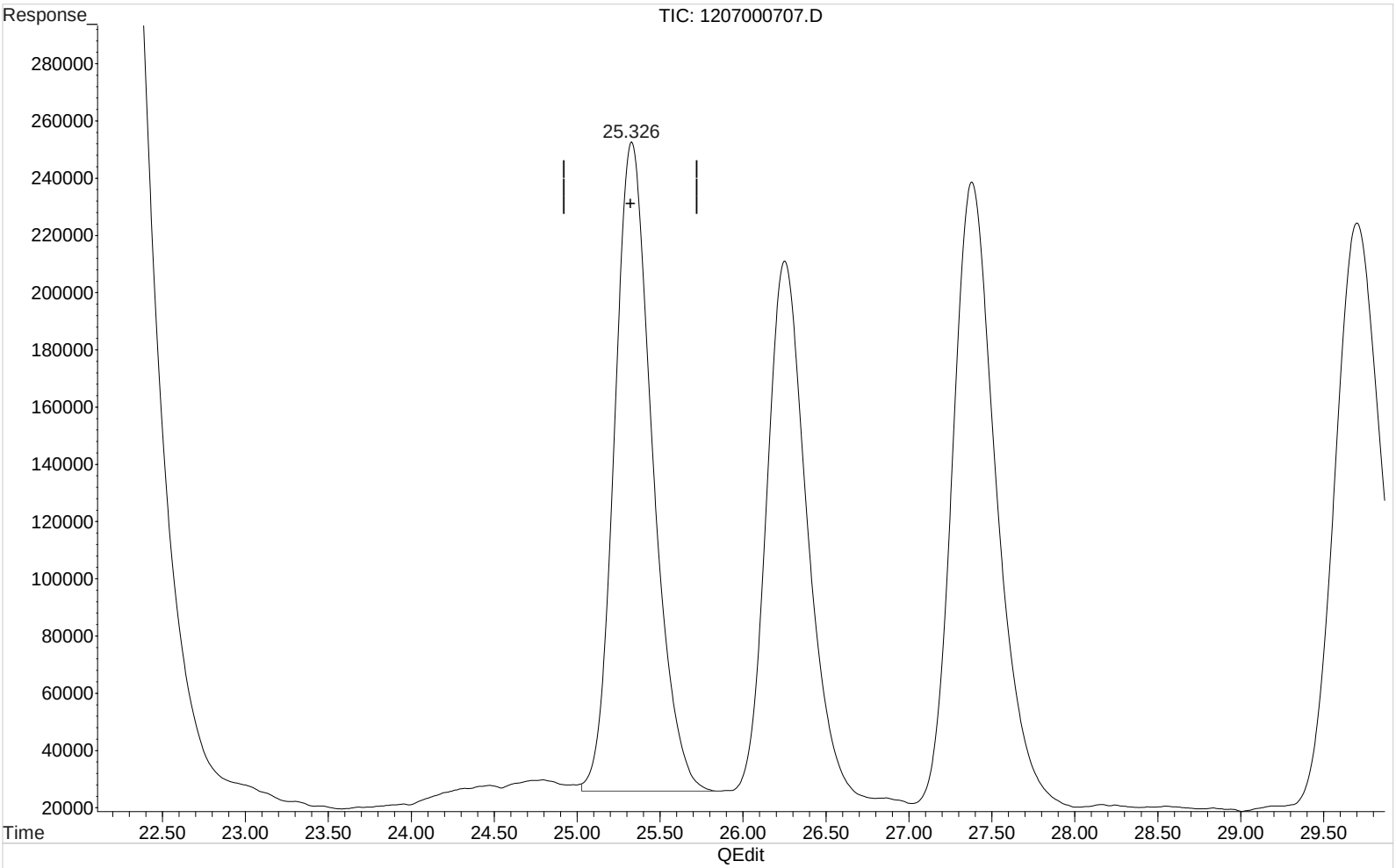
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.326min 202.270 ug/L

response 3625509

Manual Integration:

Before

12/08/16

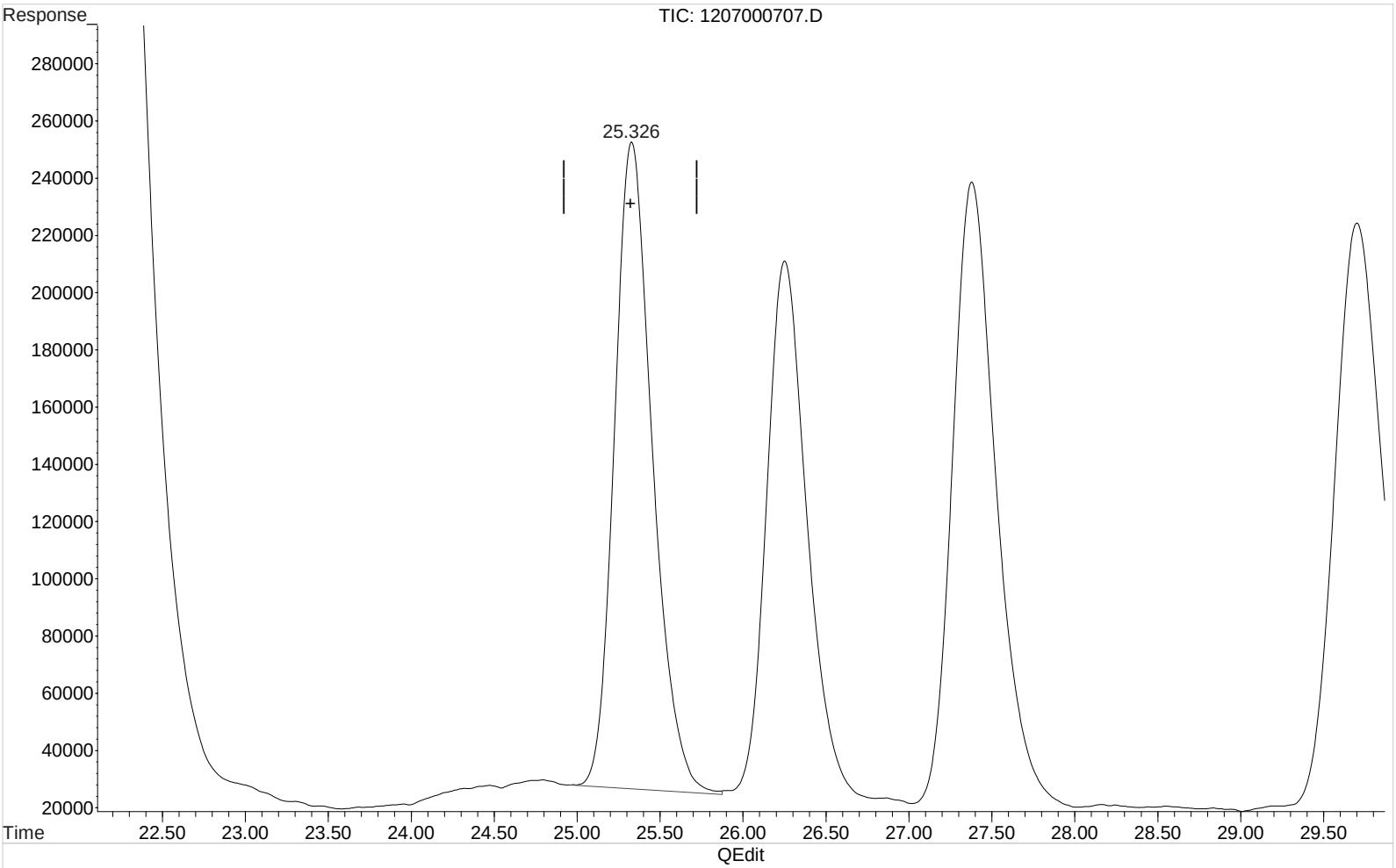
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.326min 201.453 ug/L m

response 3610858

Manual Integration:

After

BLC

12/08/16

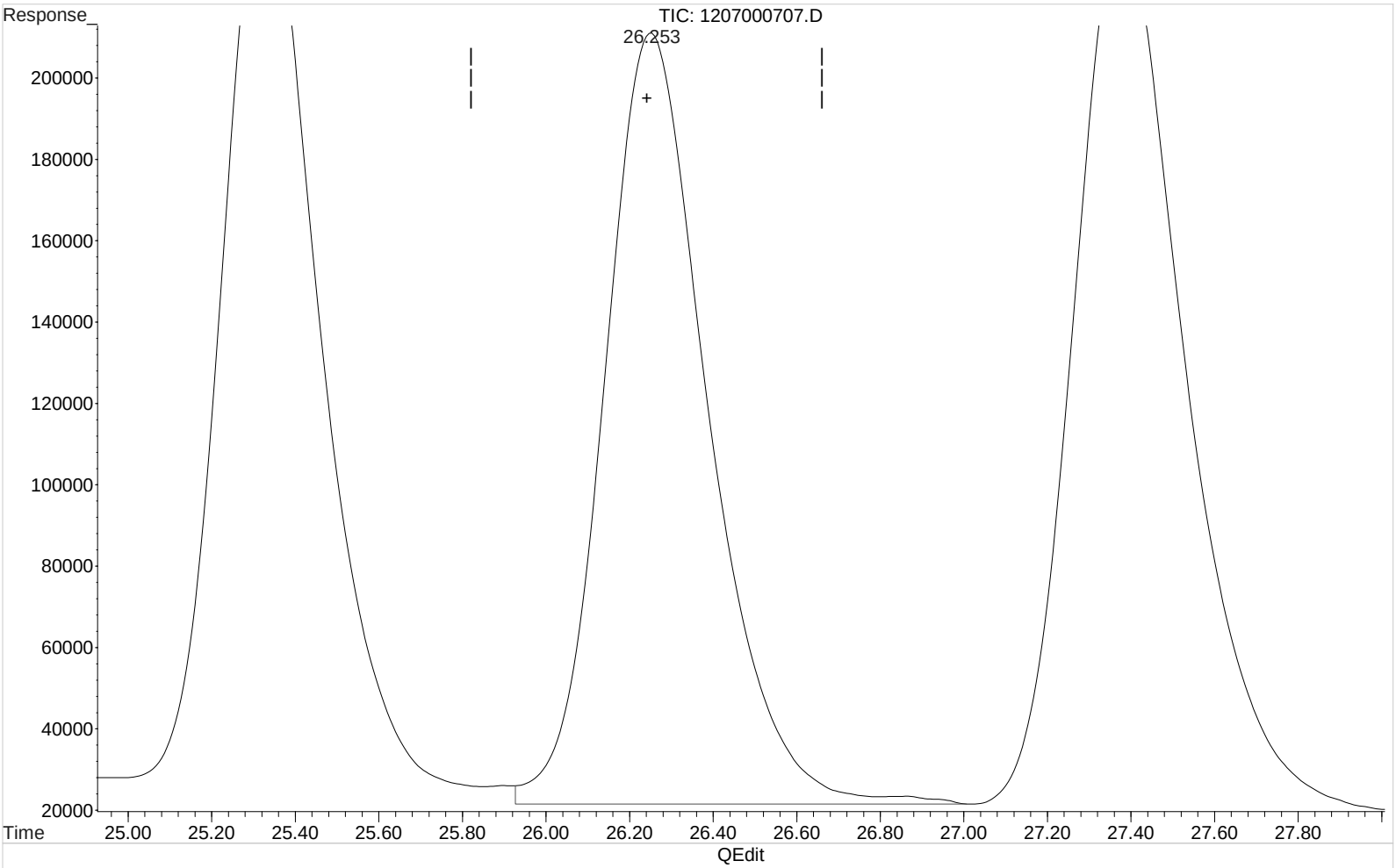
(+) = Expected Retention Time

(b)(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.253min 203.164 ug/L

response 3288744

Manual Integration:

Before

12/08/16

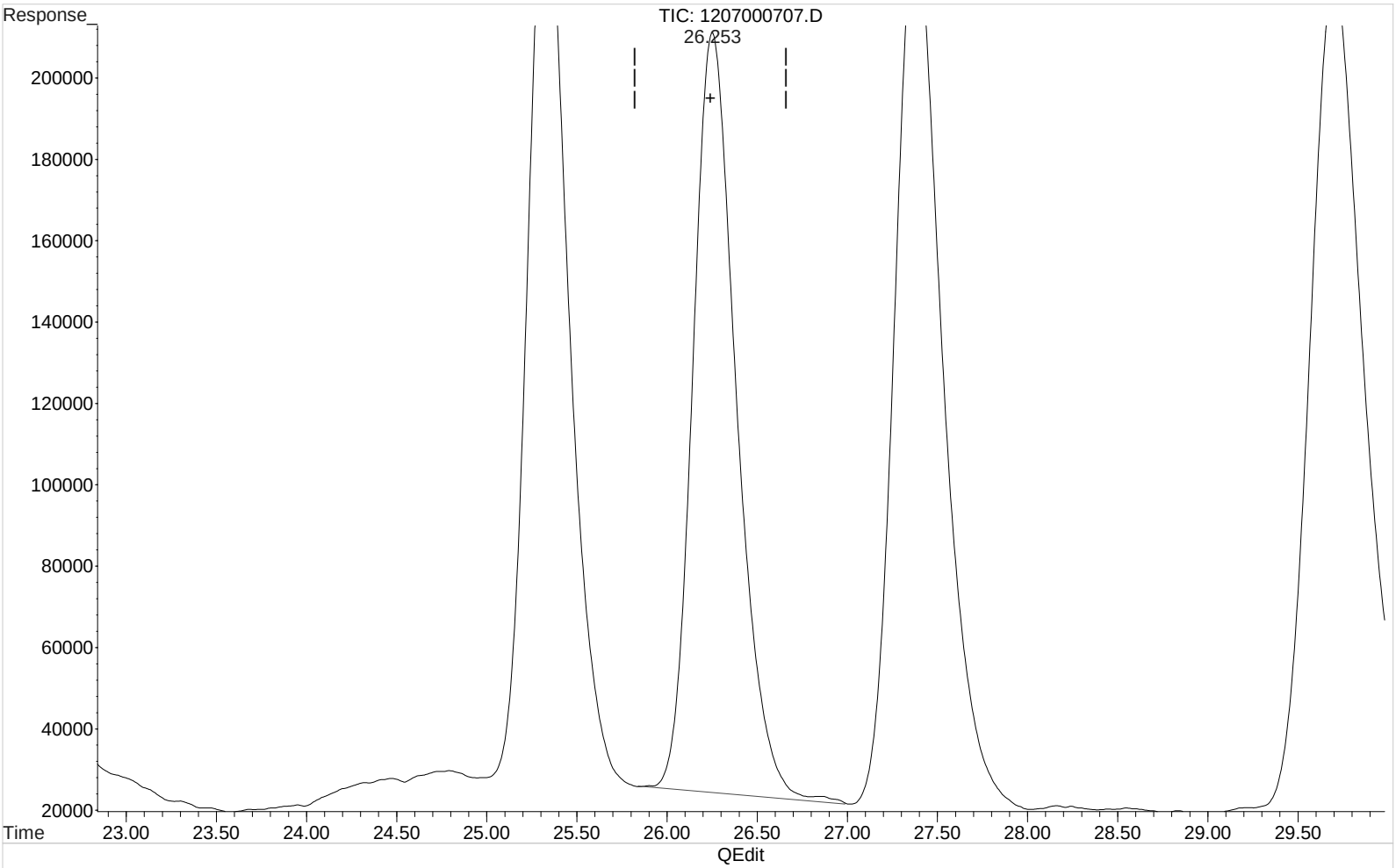
(+) = Expected Retention Time

(b) (6)
1st 2/08/16
2n 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.253min 195.125 ug/L m

response 3158608

Manual Integration:

Before

12/08/16

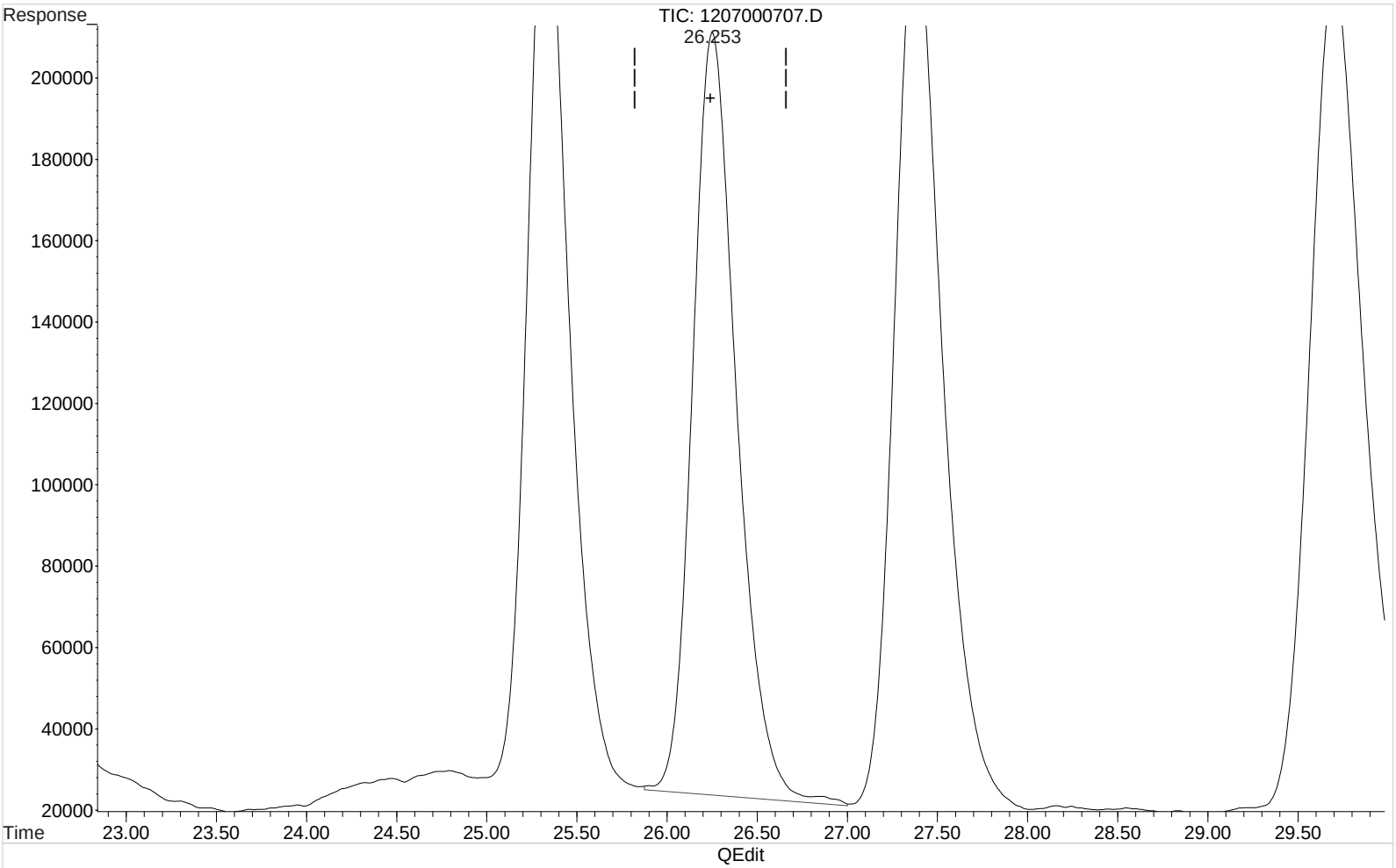
(+) = Expected Retention Time

(b) (6)
1st [redacted] 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(16) 4-NT (T)

26.253min 197.617 ug/L m

response 3198950

Manual Integration:

After

BLC

12/08/16

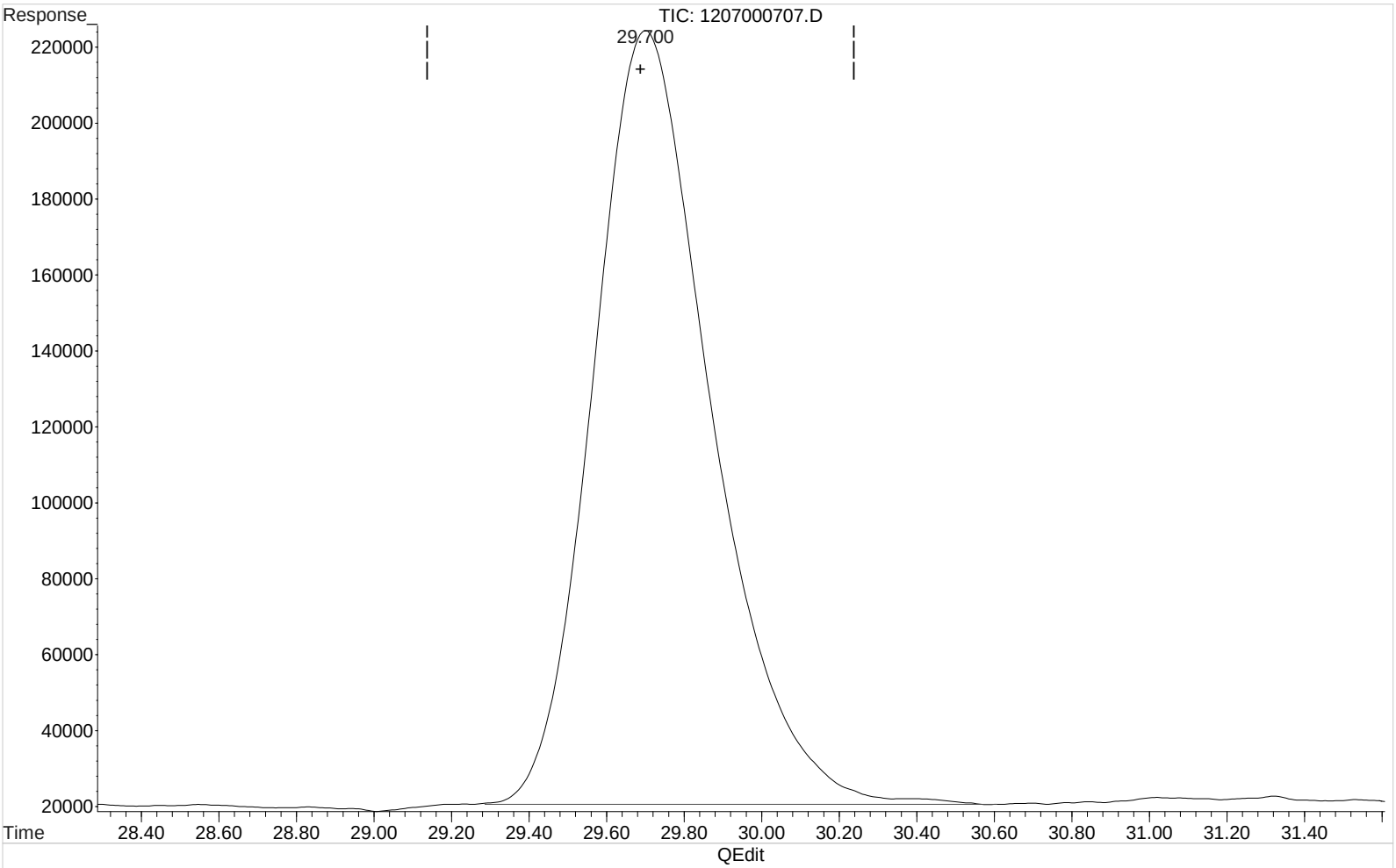
(+) = Expected Retention Time

(b) (6)
1st /08/16
2nd /09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(18) 1-Chloro-3-Nitrobenzene (S)

29.700min 192.103 ug/L

response 4312645

Manual Integration:

Before

12/08/16

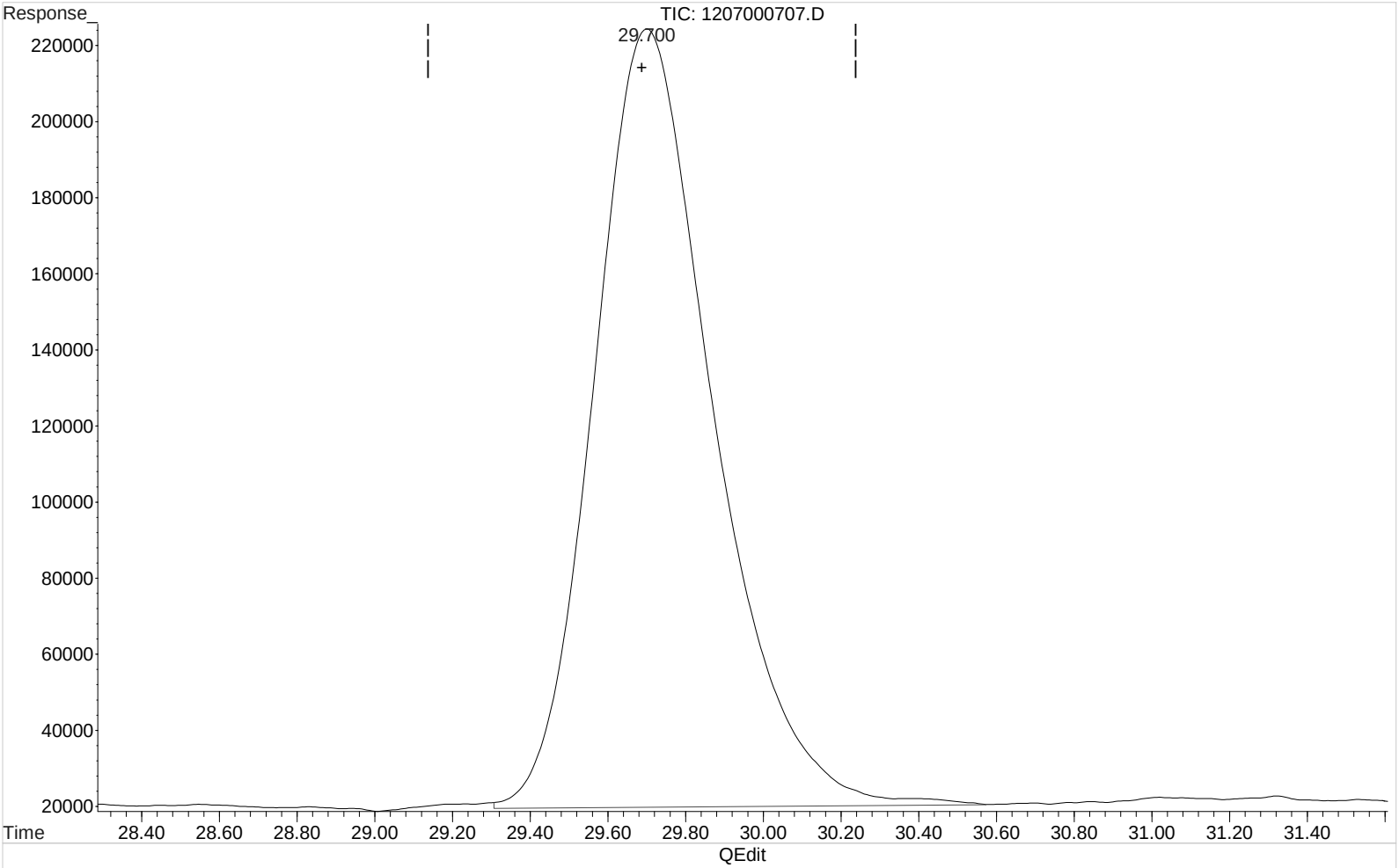
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(18) 1-Chloro-3-Nitrobenzene (S)

29.700min 194.259 ug/L m

response 4361045

Manual Integration:

After

BLC

12/08/16

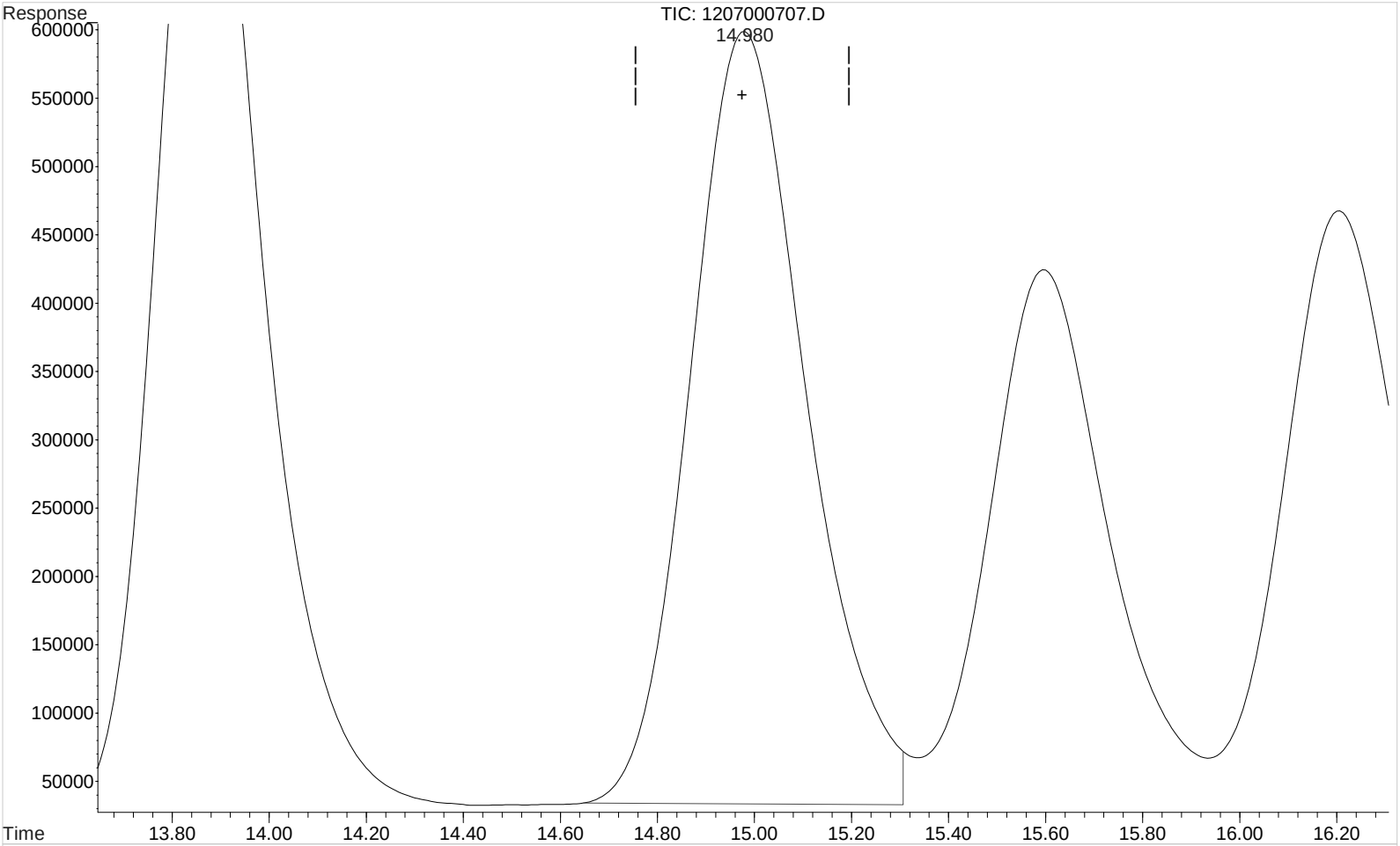
(+) = Expected Retention Time

(b) (6)
1st 2/08/16
2n 2/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.980min 195.548 ug/L

response 9394960

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

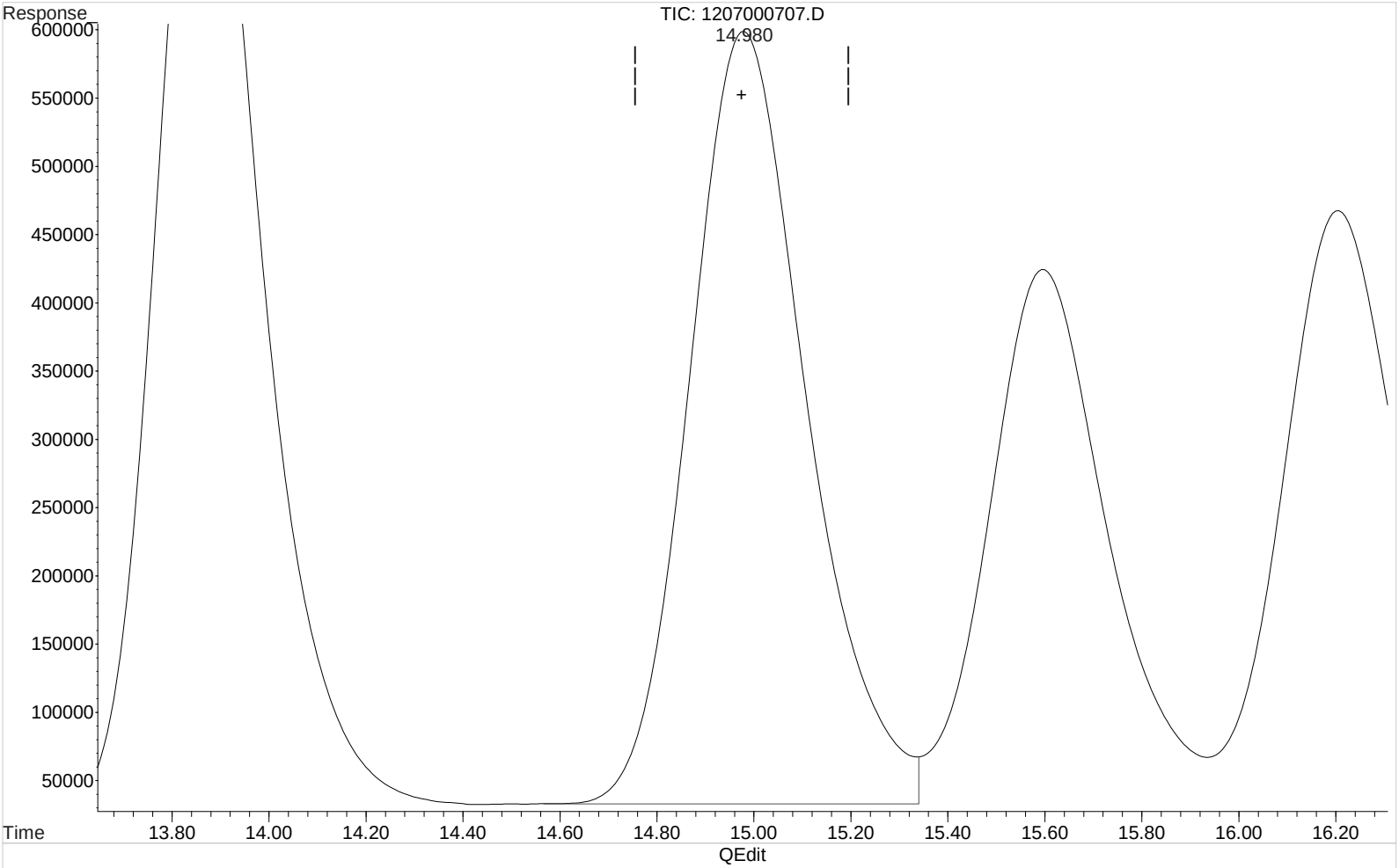
Quantitation Report (Qedit)

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.980min 197.468 ug/L m

response 9487220

Manual Integration:

After

BLC

12/08/16

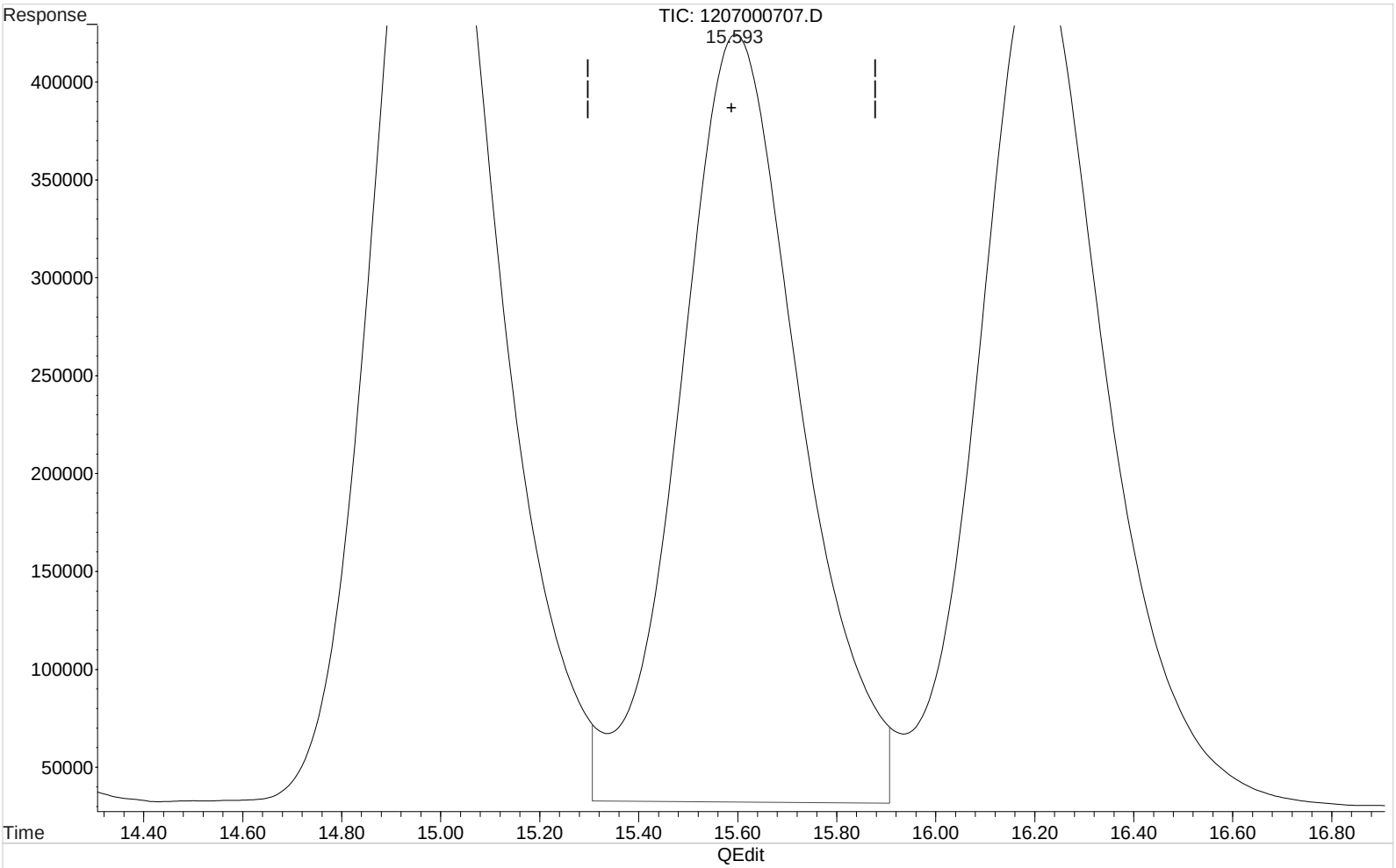
(+) = Expected Retention Time

(b) (6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.593min 196.528 ug/L

response 6600222

Manual Integration:

Before

12/08/16

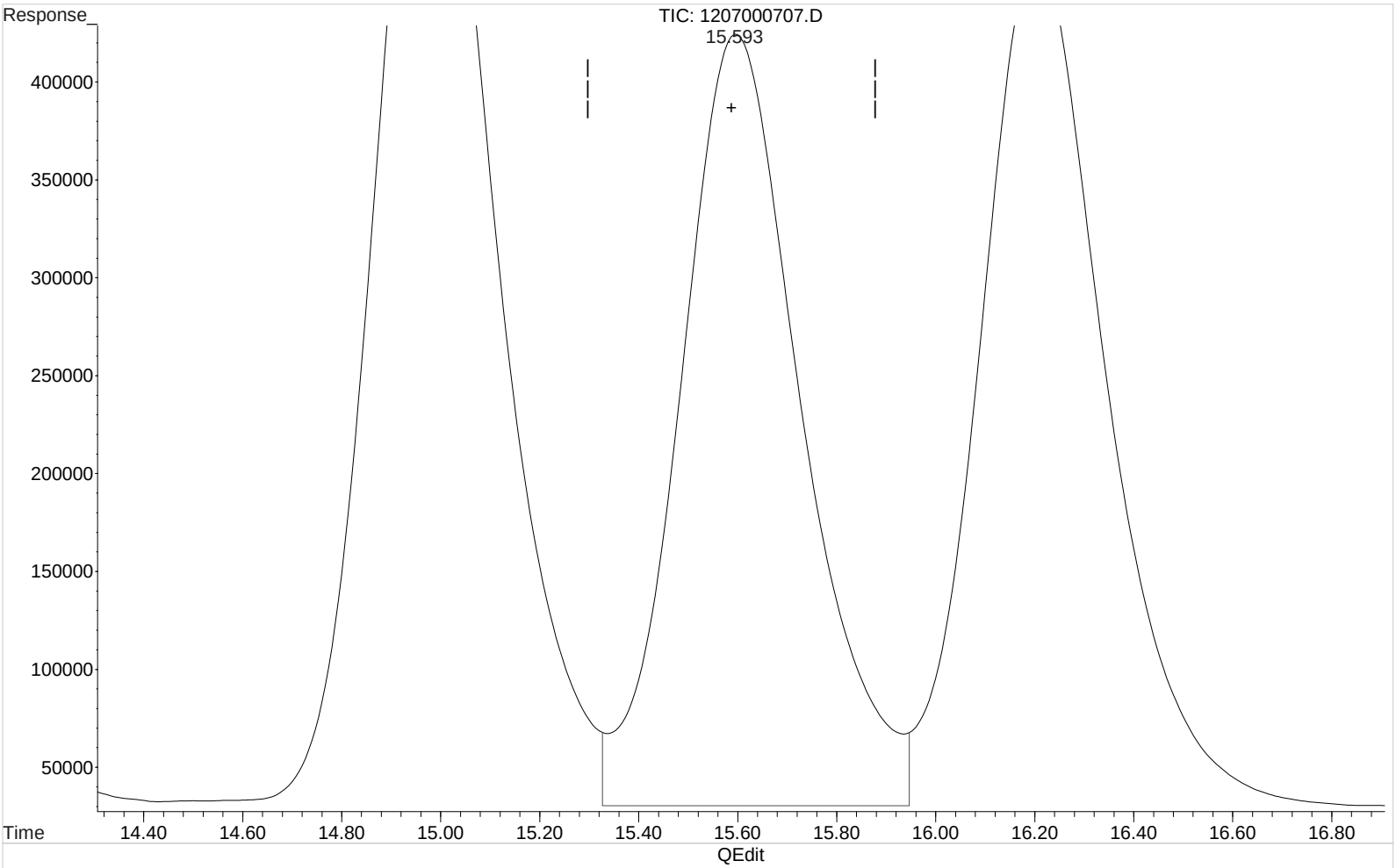
(+) = Expected Retention Time

1st (b) (6) 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(8) Tetryl (T)

15.593min 199.929 ug/L m

response 6714428

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

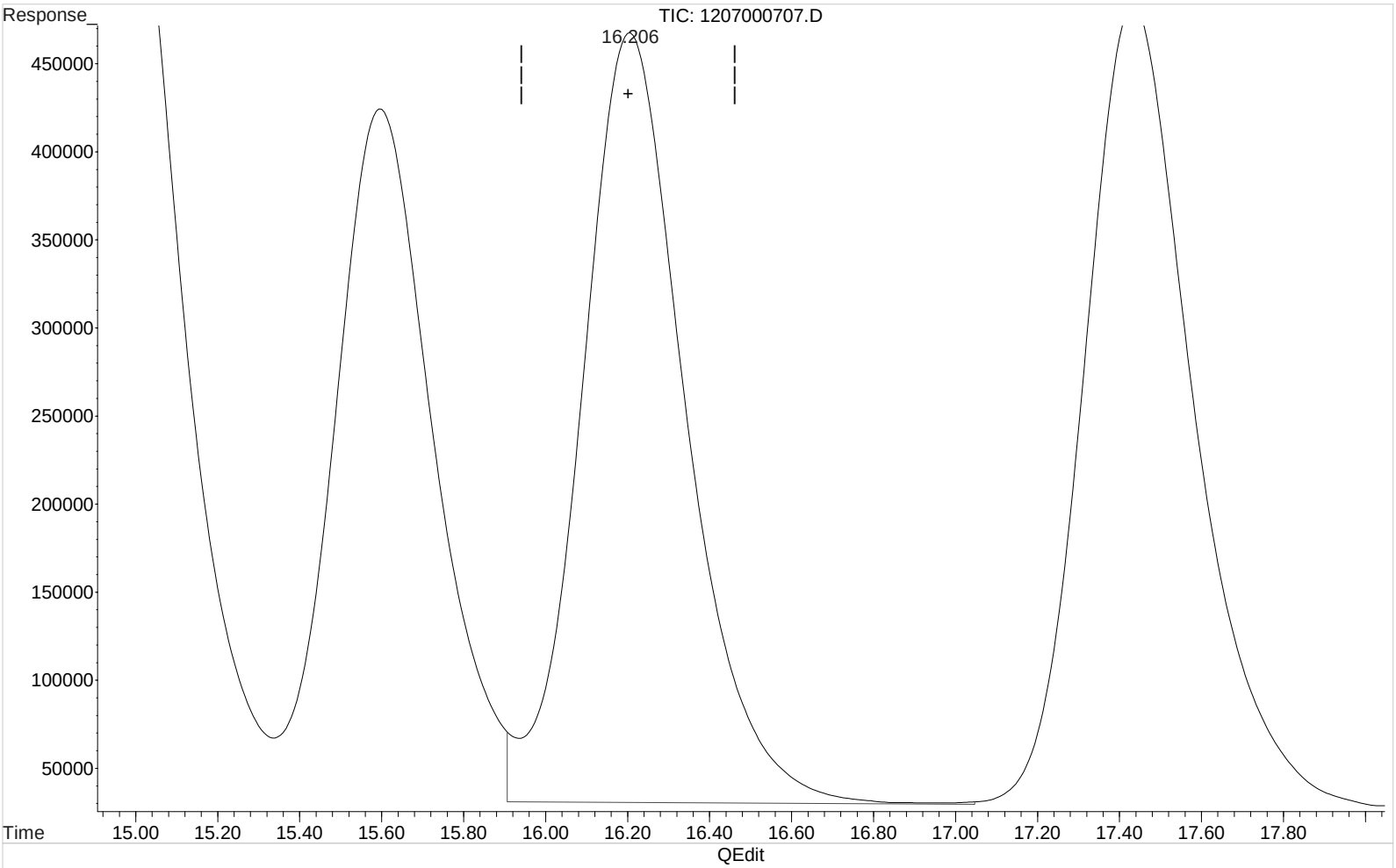
Quantitation Report (Qedit)

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.206min 198.294 ug/L

response 7713338

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b)(6)

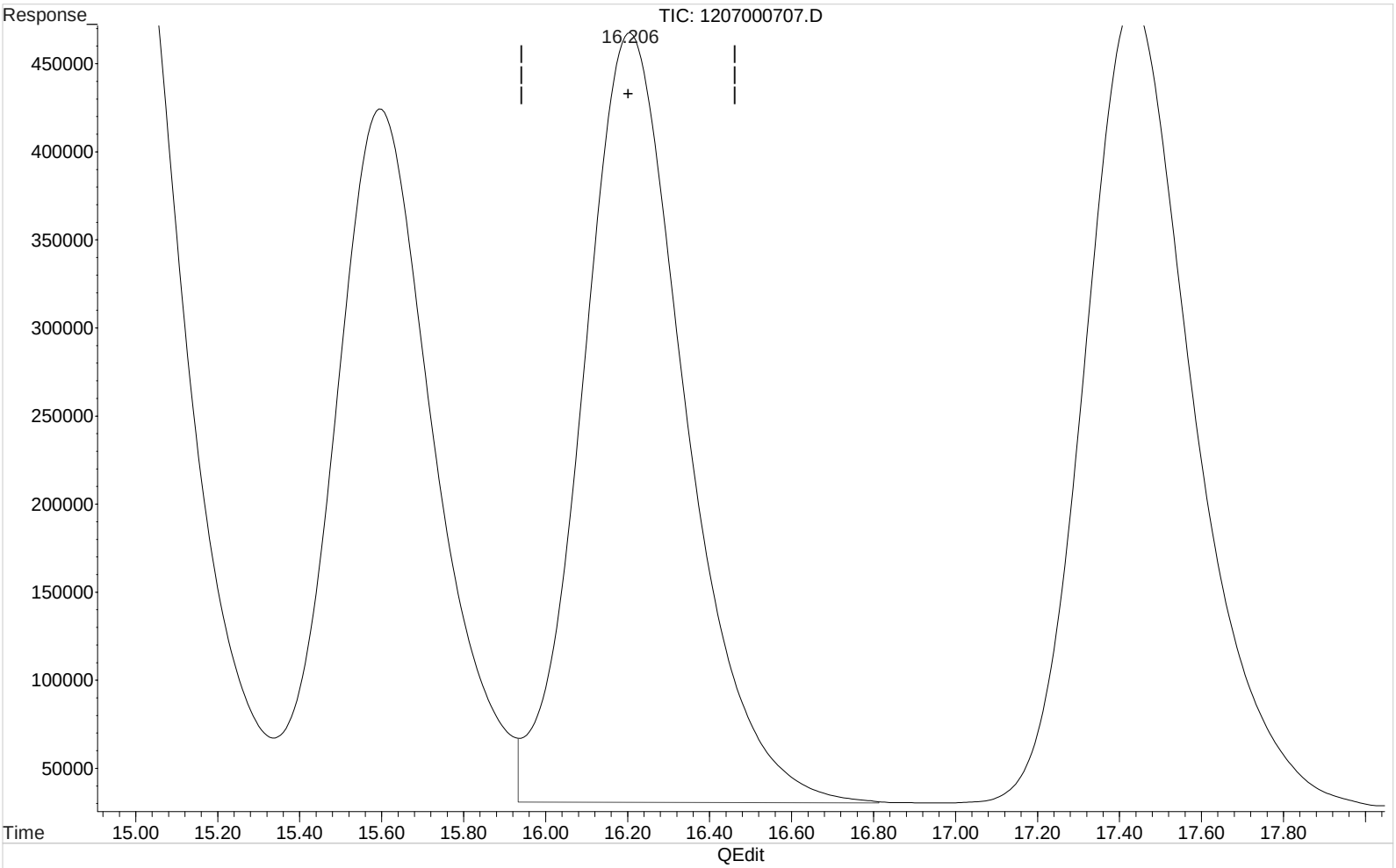
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000707.D Vial: 6
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:01:34 Operator: AE
Sample : ICAL 200 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:10:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:07:07 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(9) Nitrobenzene (T)

16.206min 196.210 ug/L m

response 7632300

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

1st (b) (6) 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:15:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
18) S	1-Chloro-3-Nitrobenzene	29.705	10886437	488.432	ug/L	
	Target Compounds					
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2) T	HMX	4.785	6056374	506.562	ug/L	
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4) T	RDX	8.379	10003709	499.846	ug/L	
5) T	1,3,5-TNB	10.519	22540023	501.855	ug/L	
6) T	1,3-DNB	13.859	30302928	496.719	ug/L	
7) T	3,5-Dinitroaniline	14.965	24125484	503.745	ug/L	
8) T	Tetryl	15.585	16812702	500.659	ug/L	
9) T	Nitrobenzene	16.192	19511965	503.999	ug/L	
10) T	2,4,6-TNT	17.439	21176168	511.931	ug/L	
11) T	4-Amino-2,6-DNT	19.192	14984390	512.669	ug/L	
12) T	2-Amino-4,6-DNT	20.025	21286599	490.874	ug/L	
13) T	2,6-DNT	21.745	12560679	515.590	ug/L	m
14) T	2,4-DNT	22.205	29961095	510.697	ug/L	m
15) T	2-NT	25.325	9109097	507.283	ug/L	m
16) T	4-NT	26.252	8010069	496.306	ug/L	m
17) T	3-NT	27.379	10130589	501.548	ug/L	m

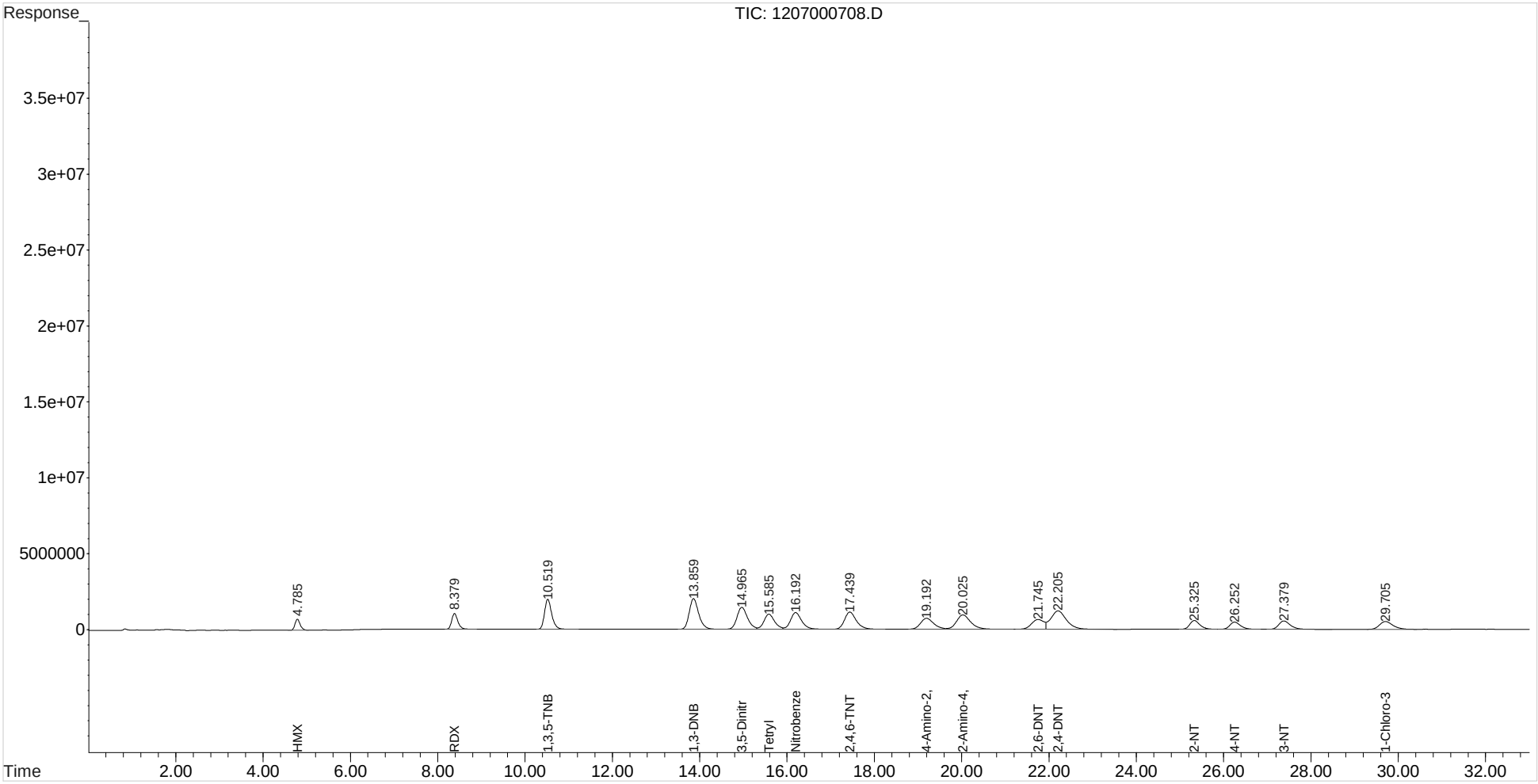
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:15:58 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

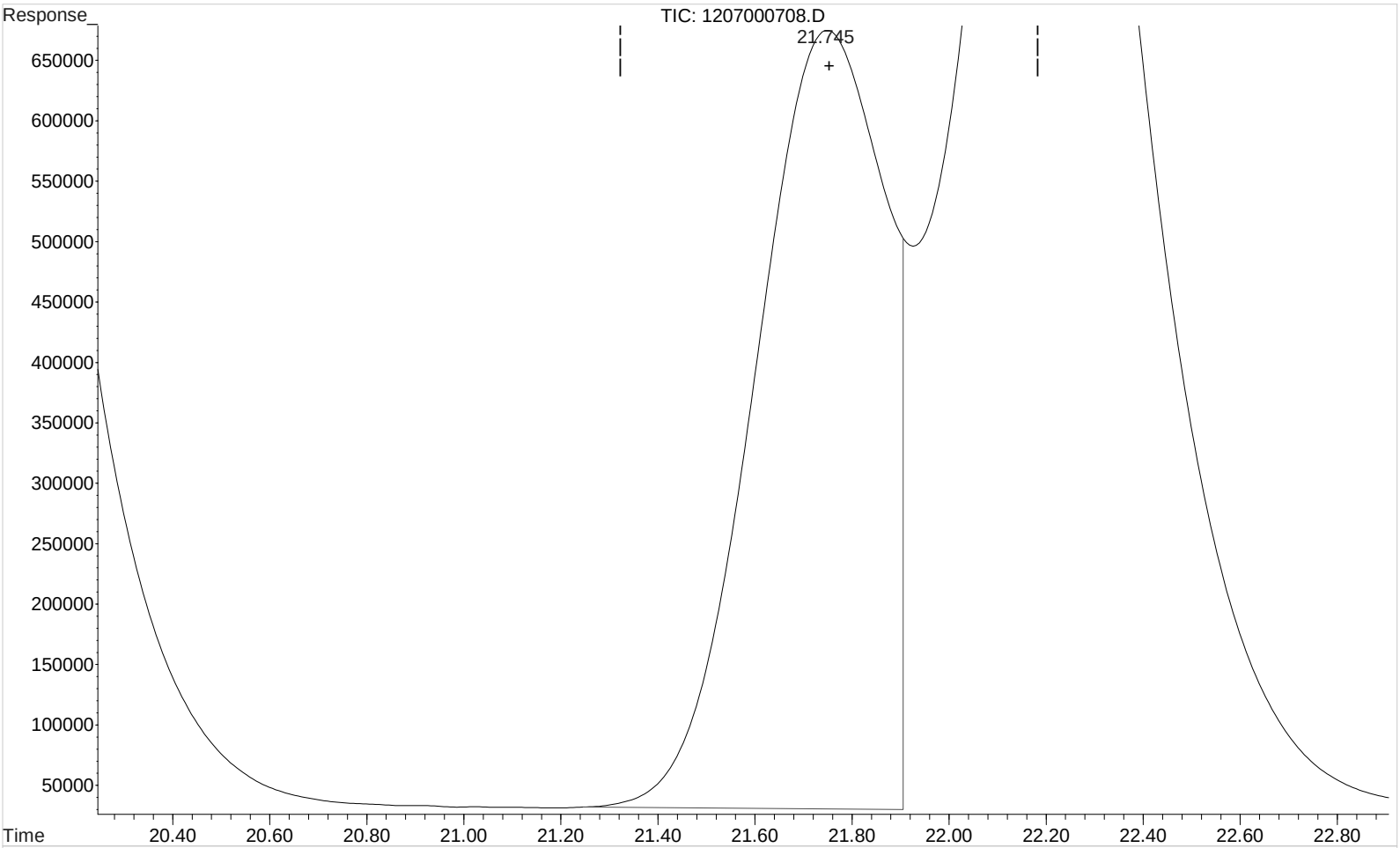


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.745min 493.038 ug/L

response 12011281

Manual Integration:

Before

12/08/16

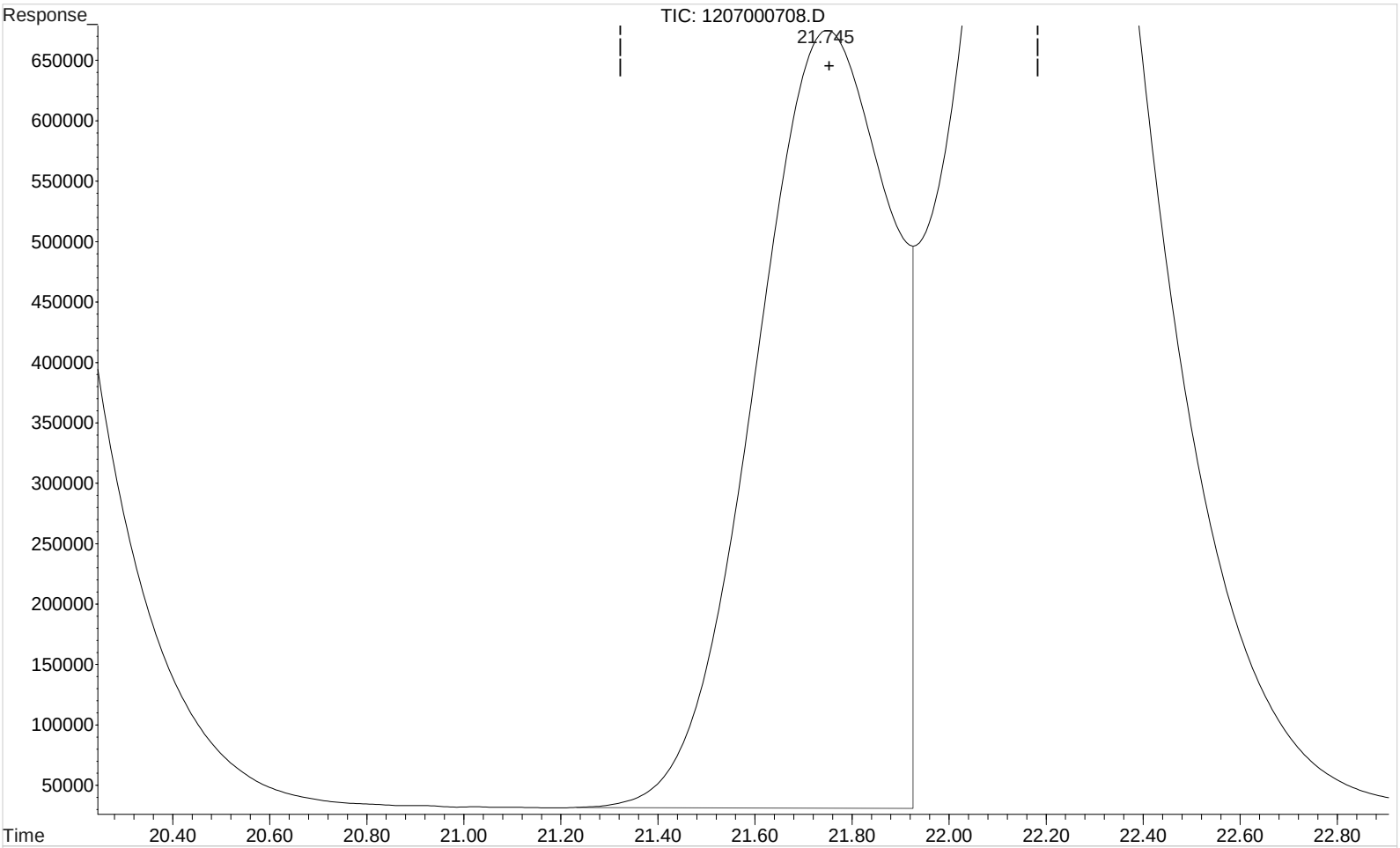
(+) = Expected Retention Time

(b)
(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.745min 515.590 ug/L m

response 12560679

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

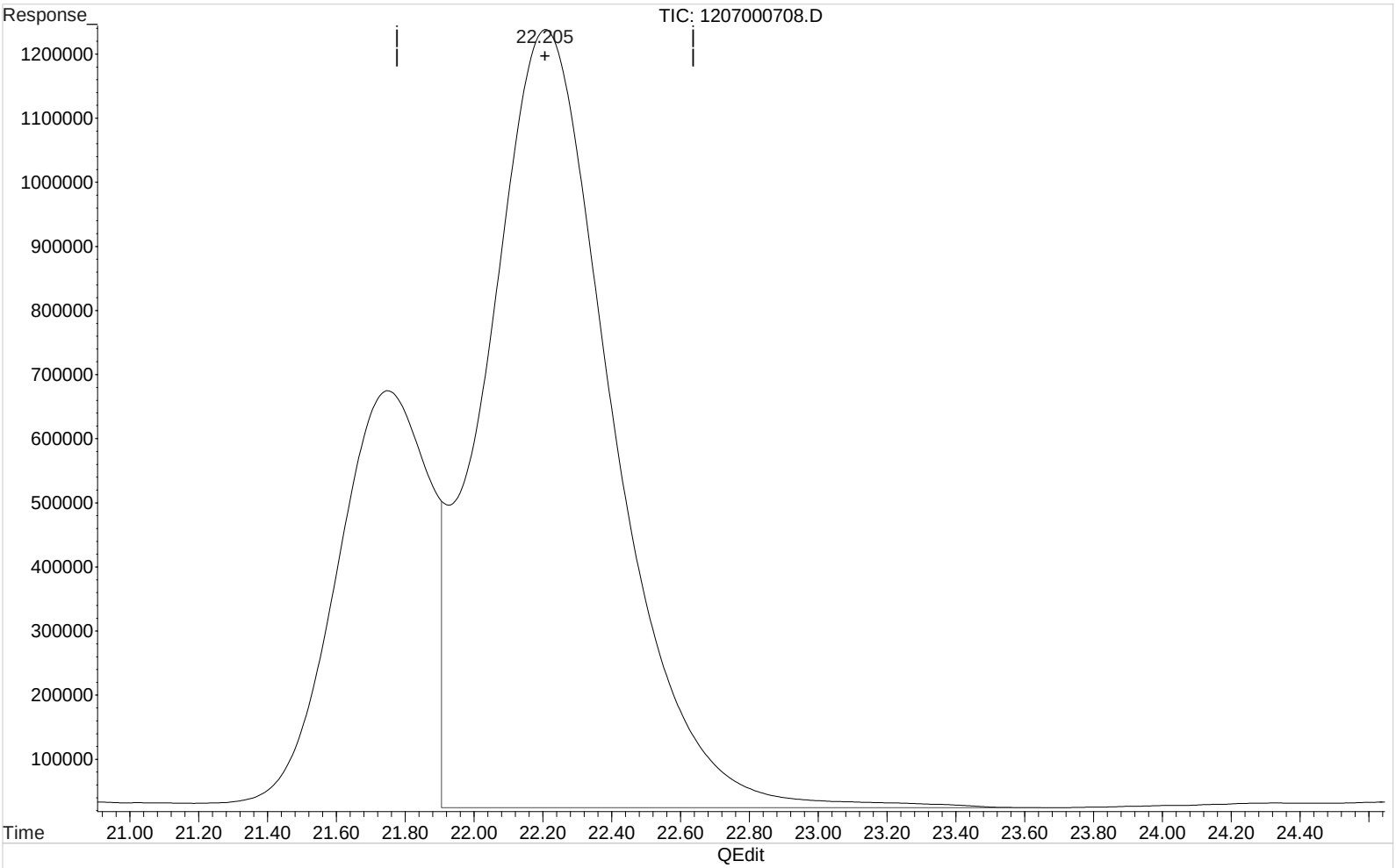
Quantitation Report (Qedit)

1st (b)(6) 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.205min 531.088 ug/L

response 31157389

Manual Integration:

Before

12/08/16

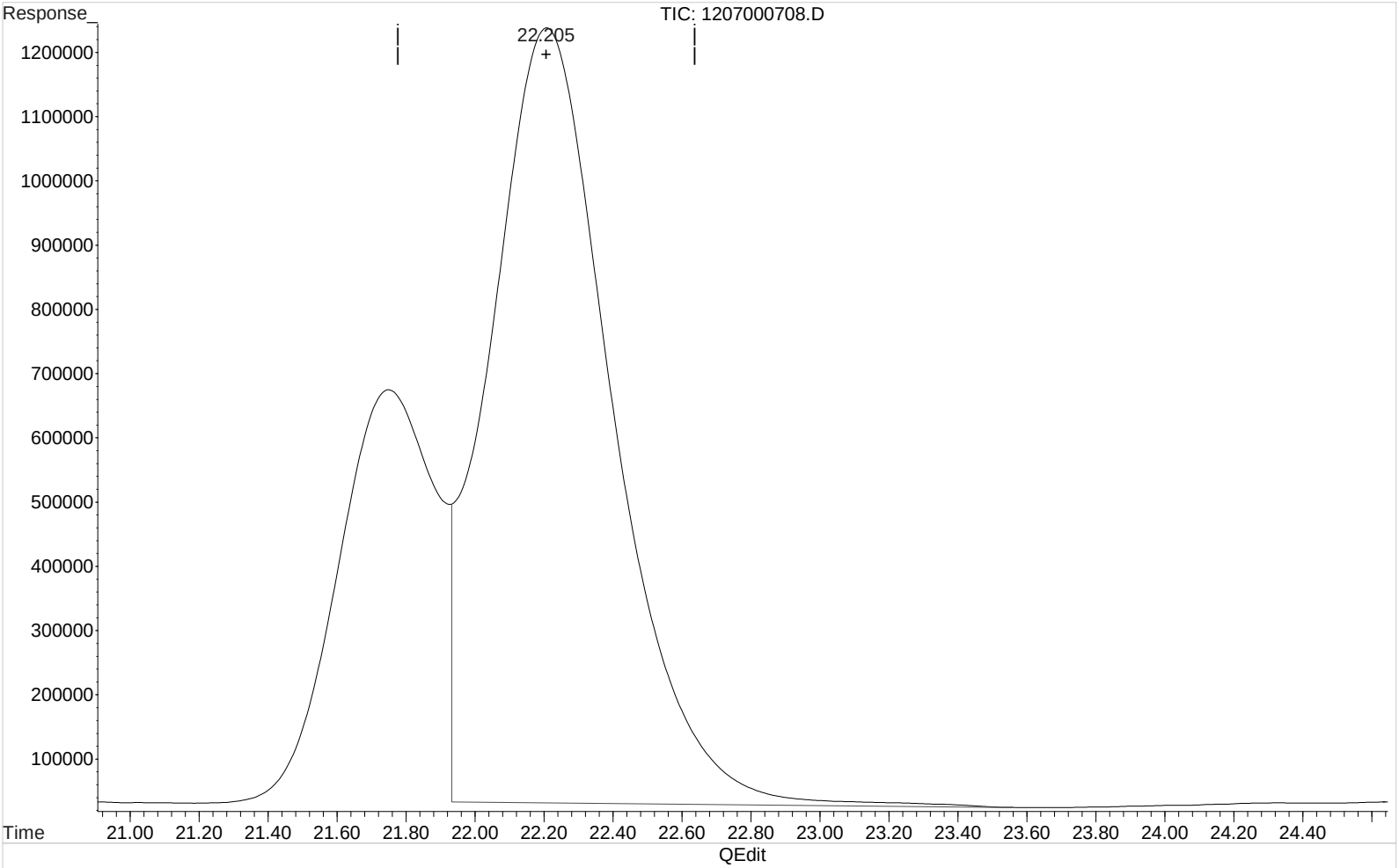
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.205min 510.697 ug/L m

response 29961095

Manual Integration:

After

BLC

12/08/16

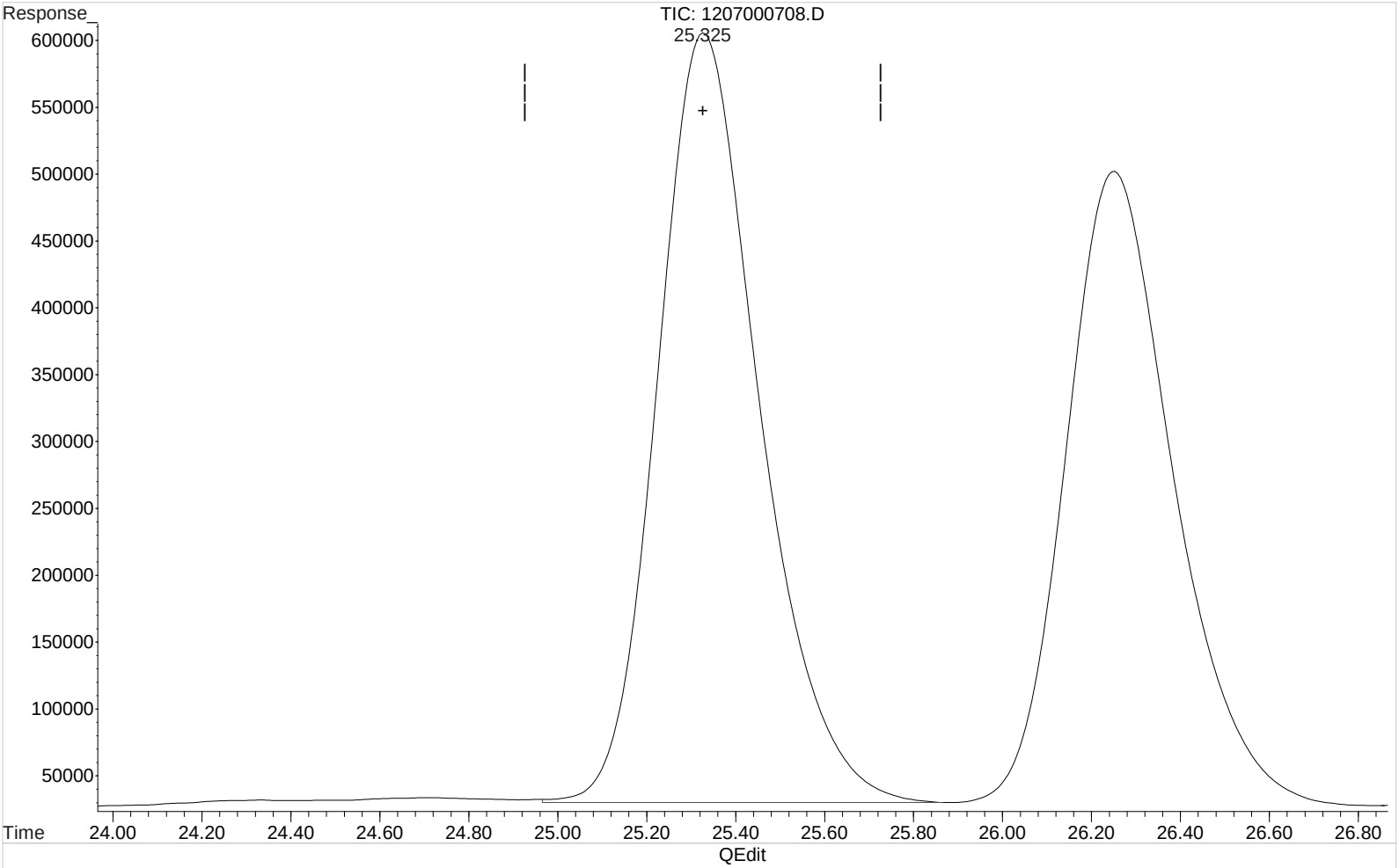
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.325min 510.734 ug/L

response 9171057

Manual Integration:

Before

12/08/16

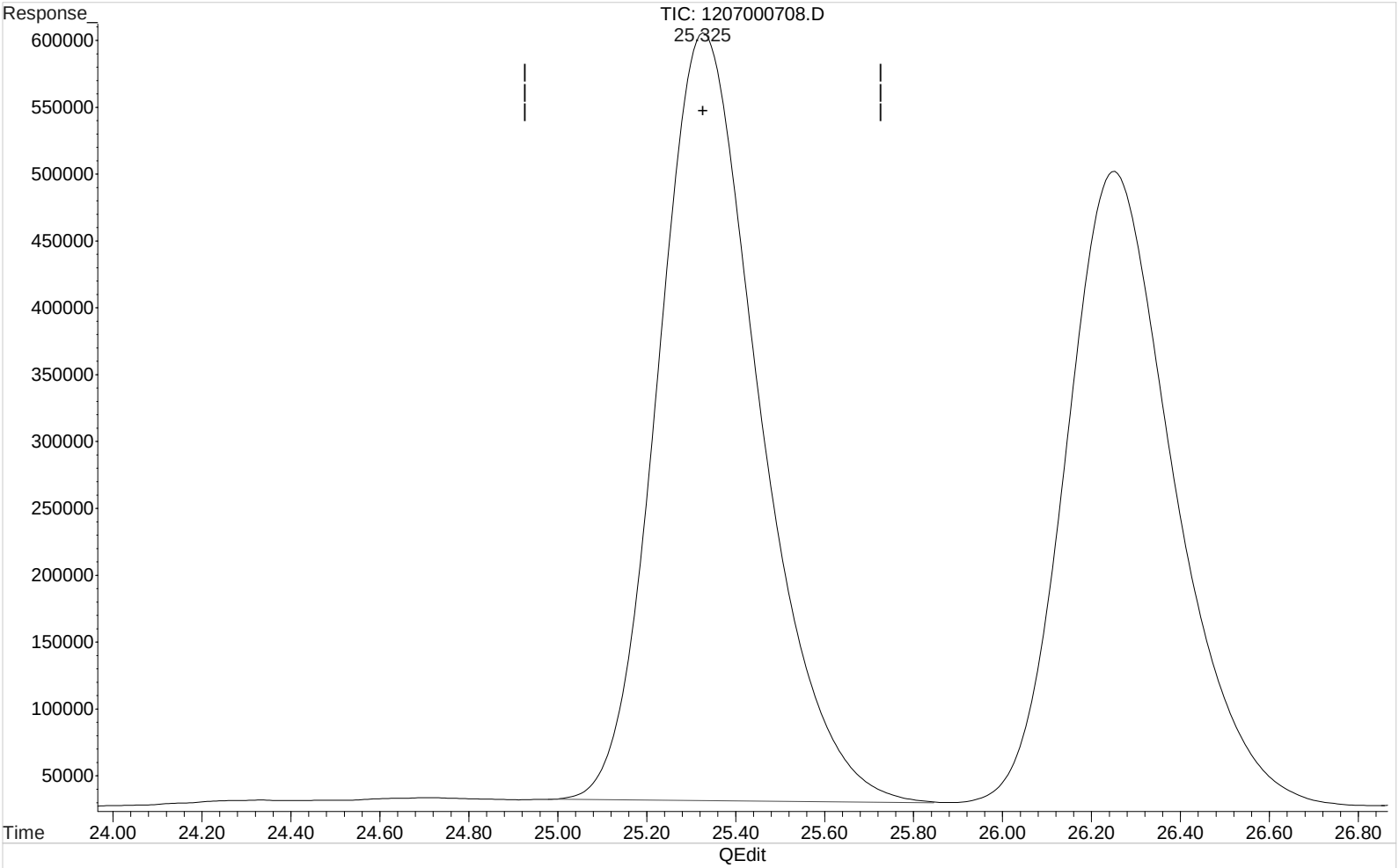
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(15) 2-NT (T)

25.325min 507.283 ug/L m

response 9109097

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b)(6)

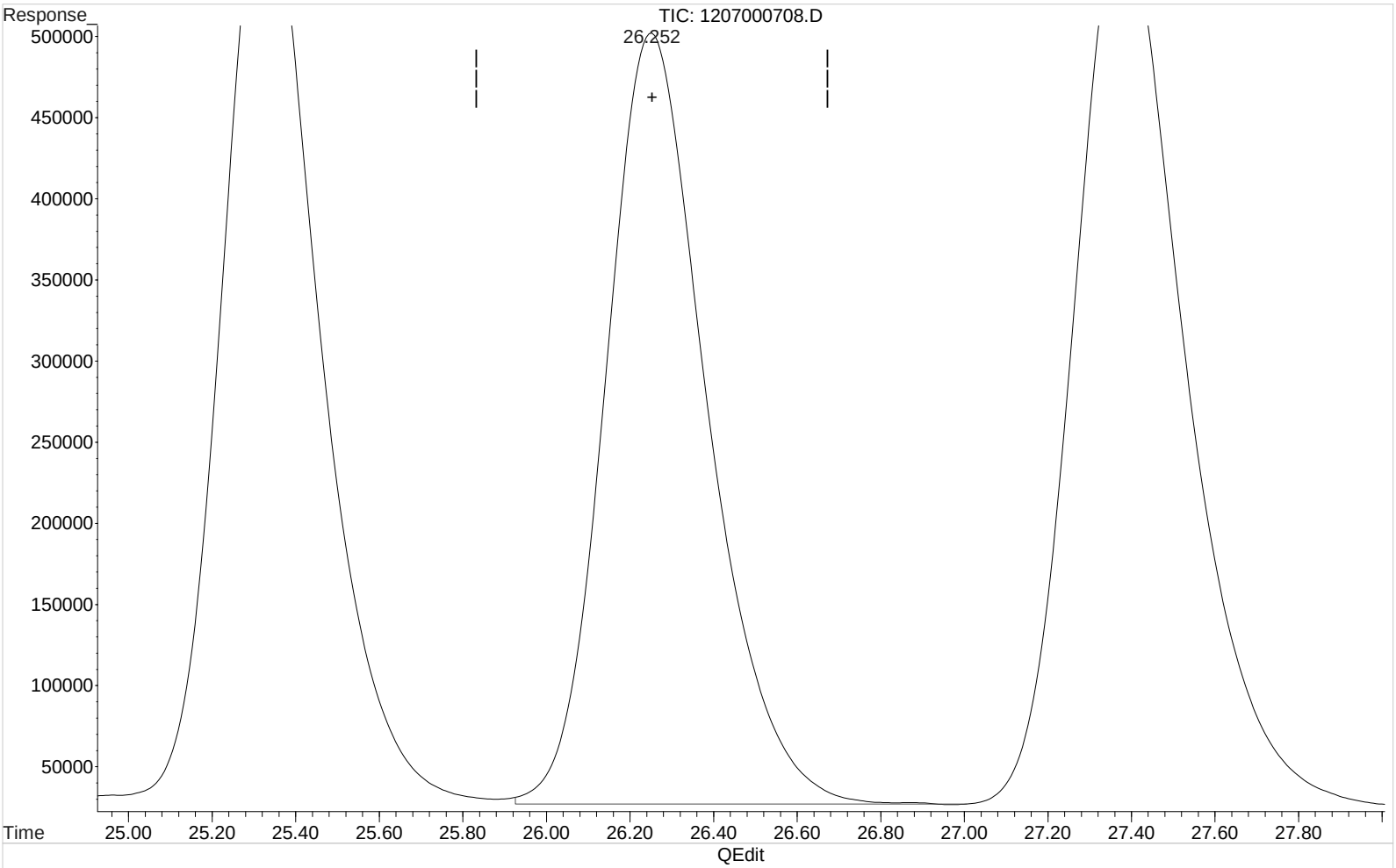
1st 12/08/16

2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(16) 4-NT (T)

26.252min 498.182 ug/L

response 8040347

Manual Integration:

Before

12/08/16

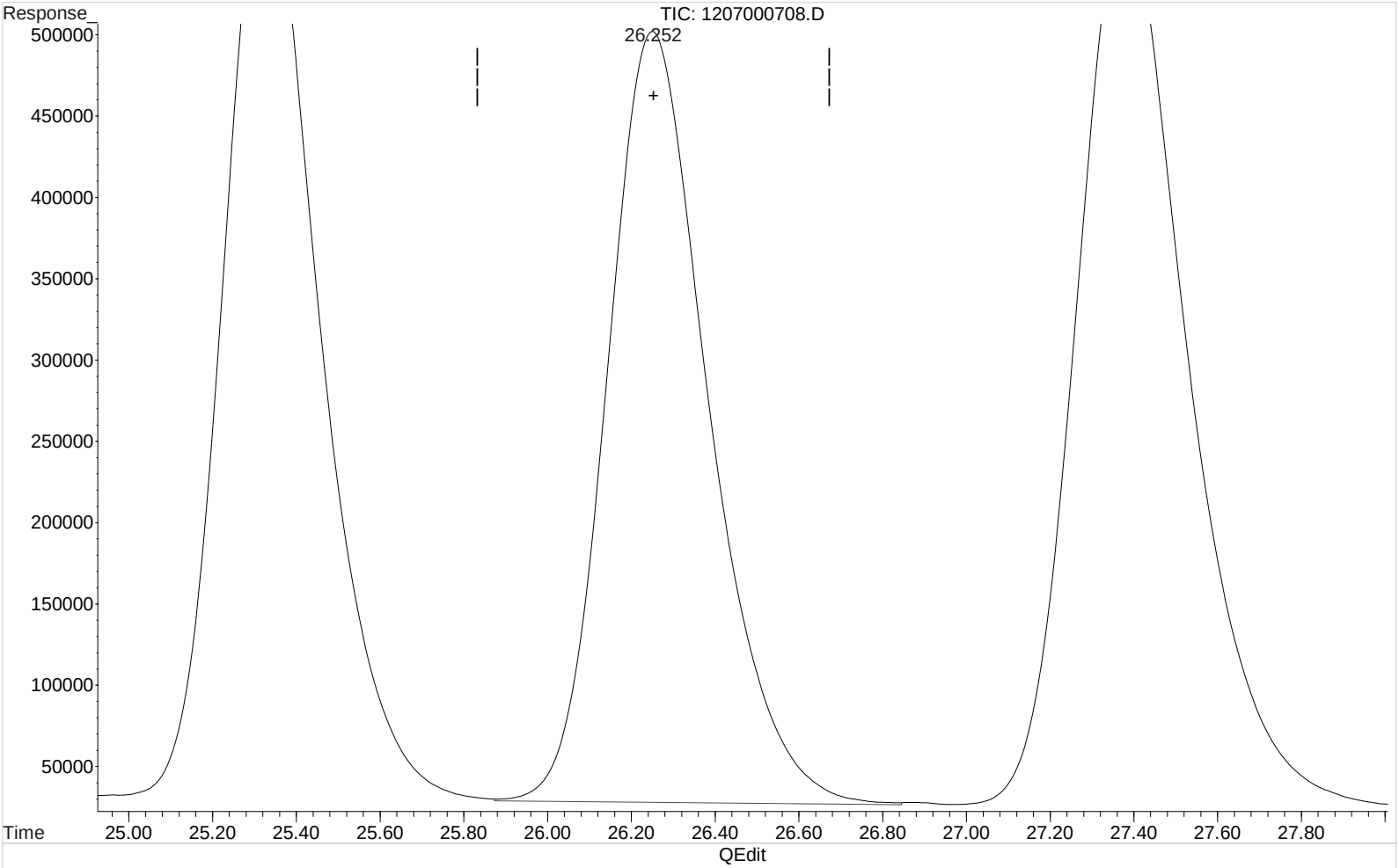
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(16) 4-NT (T)

26.252min 496.306 ug/L m

response 8010069

Manual Integration:

After

BLC

12/08/16

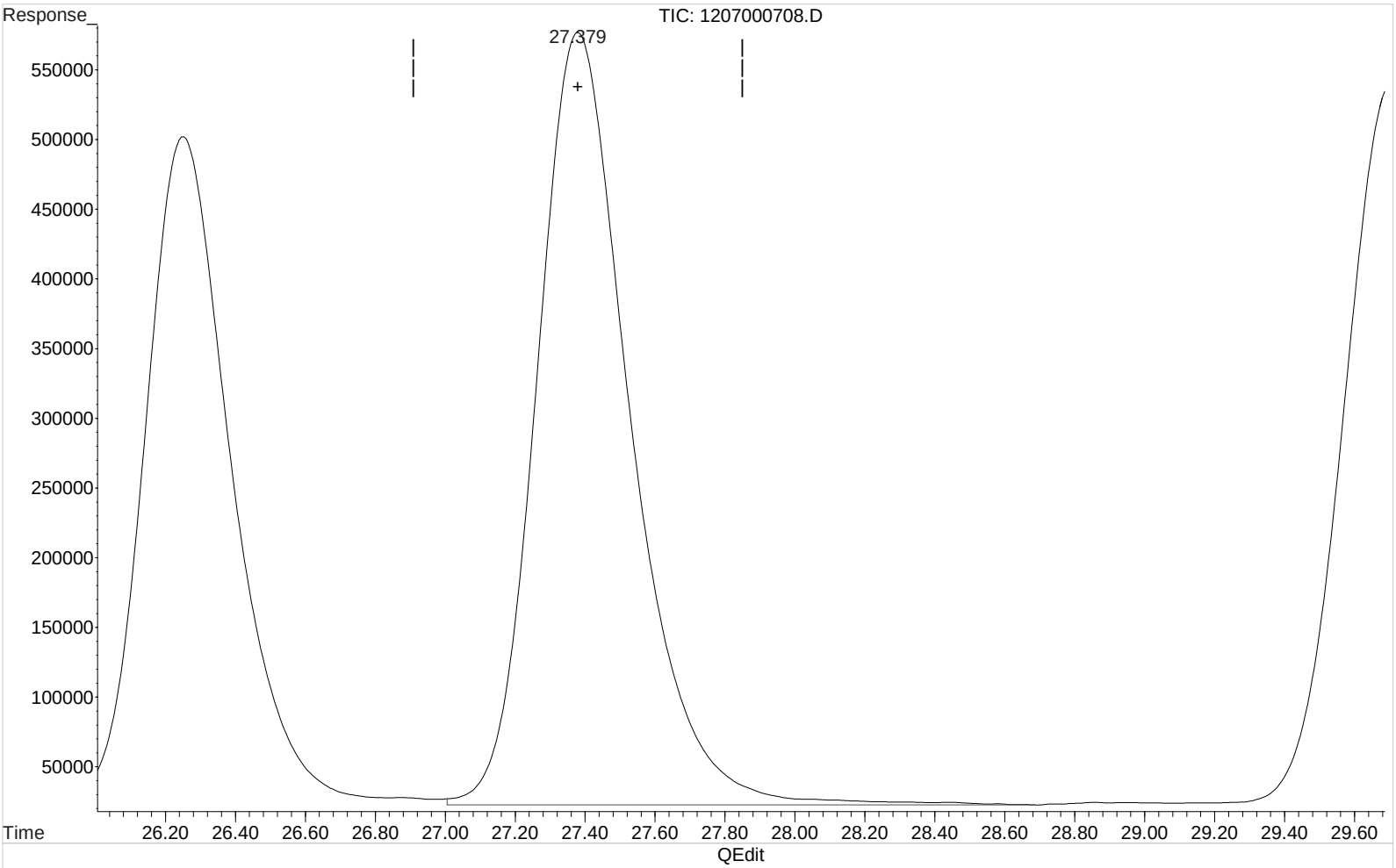
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(17) 3-NT (T)

27.379min 512.791 ug/L

response 10357684

Manual Integration:

Before

12/08/16

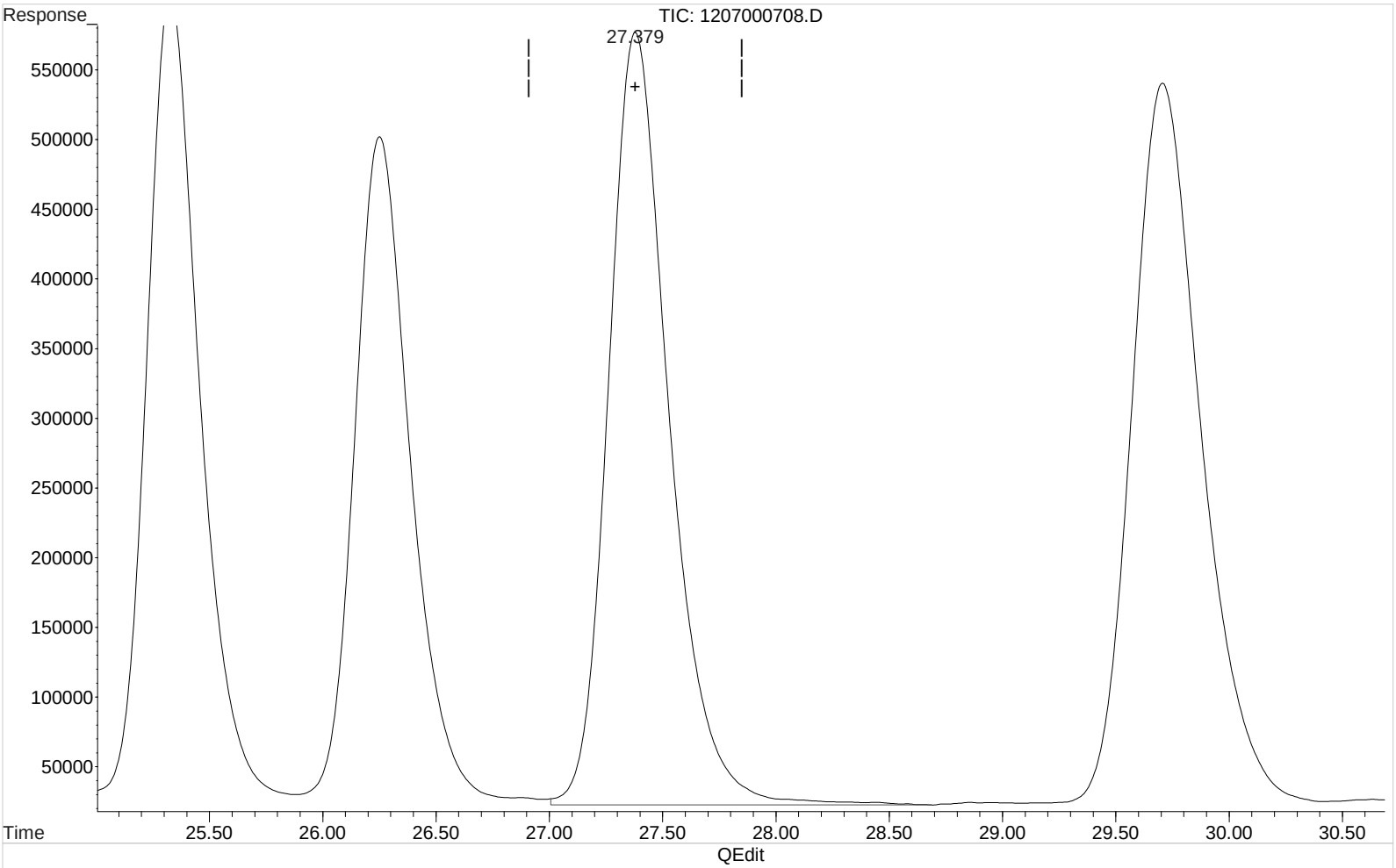
(+) = Expected Retention Time

(b) (6)
1st [redacted] 12/08/16
2n [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.379min 512.791 ug/L

response 10357684

Manual Integration:

Before

12/08/16

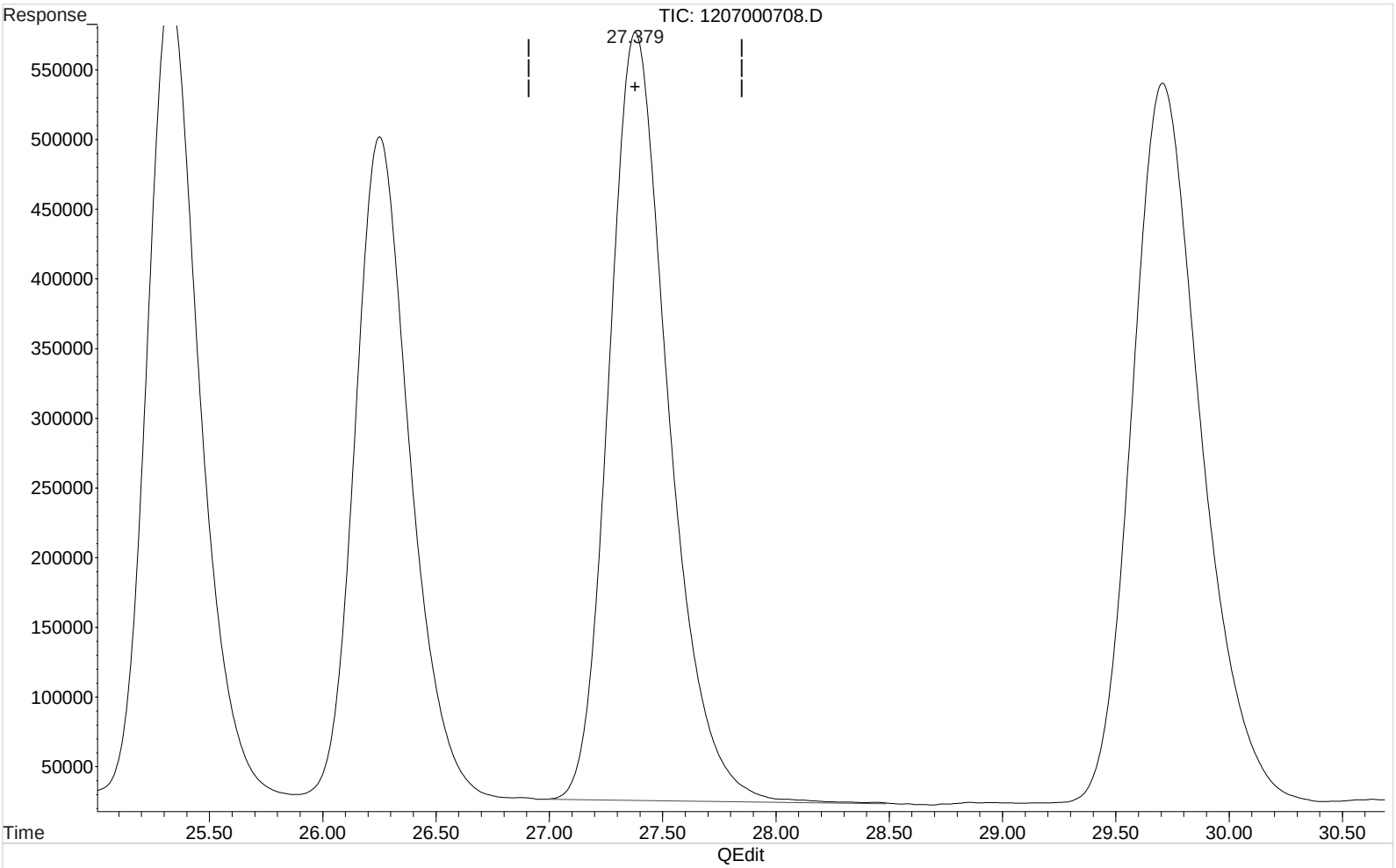
(+) = Expected Retention Time

(b) (6)
1st [redacted] 12/08/16
2nd [redacted] 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000708.D Vial: 7
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 22:37:49 Operator: AE
Sample : ICAL 500 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:14:03 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:13:43 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(17) 3-NT (T)

27.379min 501.548 ug/L m

response 10130589

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000709.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:17:24 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:16:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
18)	S	1-Chloro-3-Nitrobenzene	29.704	21424748	965.714	ug/L	
		Target Compounds					
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	4.784	11949913	996.887	ug/L	
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	8.377	19595263	979.158	ug/L	
5)	T	1,3,5-TNB	10.517	44322350	986.108	ug/L	
6)	T	1,3-DNB	13.864	59271553	972.844	ug/L	
7)	T	3,5-Dinitroaniline	14.970	47161666	983.273	ug/L	
8)	T	Tetryl	15.584	33058166	984.167	ug/L	
9)	T	Nitrobenzene	16.190	38294717	987.582	ug/L	
10)	T	2,4,6-TNT	17.424	41608108	1001.093	ug/L	
11)	T	4-Amino-2,6-DNT	19.184	29562551	1006.339	ug/L	
12)	T	2-Amino-4,6-DNT	20.017	41752958	966.360	ug/L	
13)	T	2,6-DNT	21.744	24453723	997.554	ug/L	m
14)	T	2,4-DNT	22.204	58902914	999.743	ug/L	m
15)	T	2-NT	25.324	17886628	993.209	ug/L	
16)	T	4-NT	26.244	15580571	966.804	ug/L	
17)	T	3-NT	27.377	20277426	1003.280	ug/L	

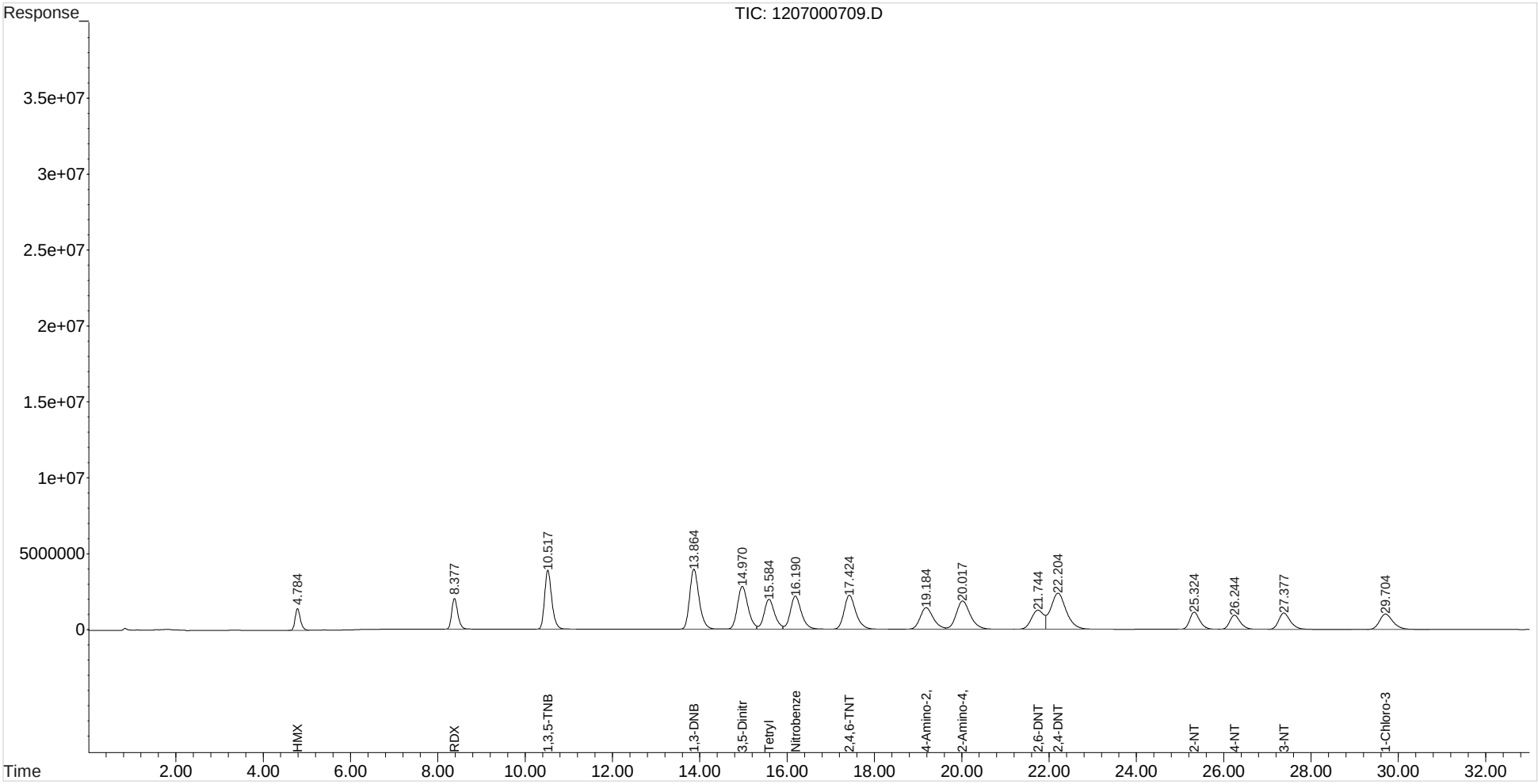
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000709.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:17:24 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:16:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

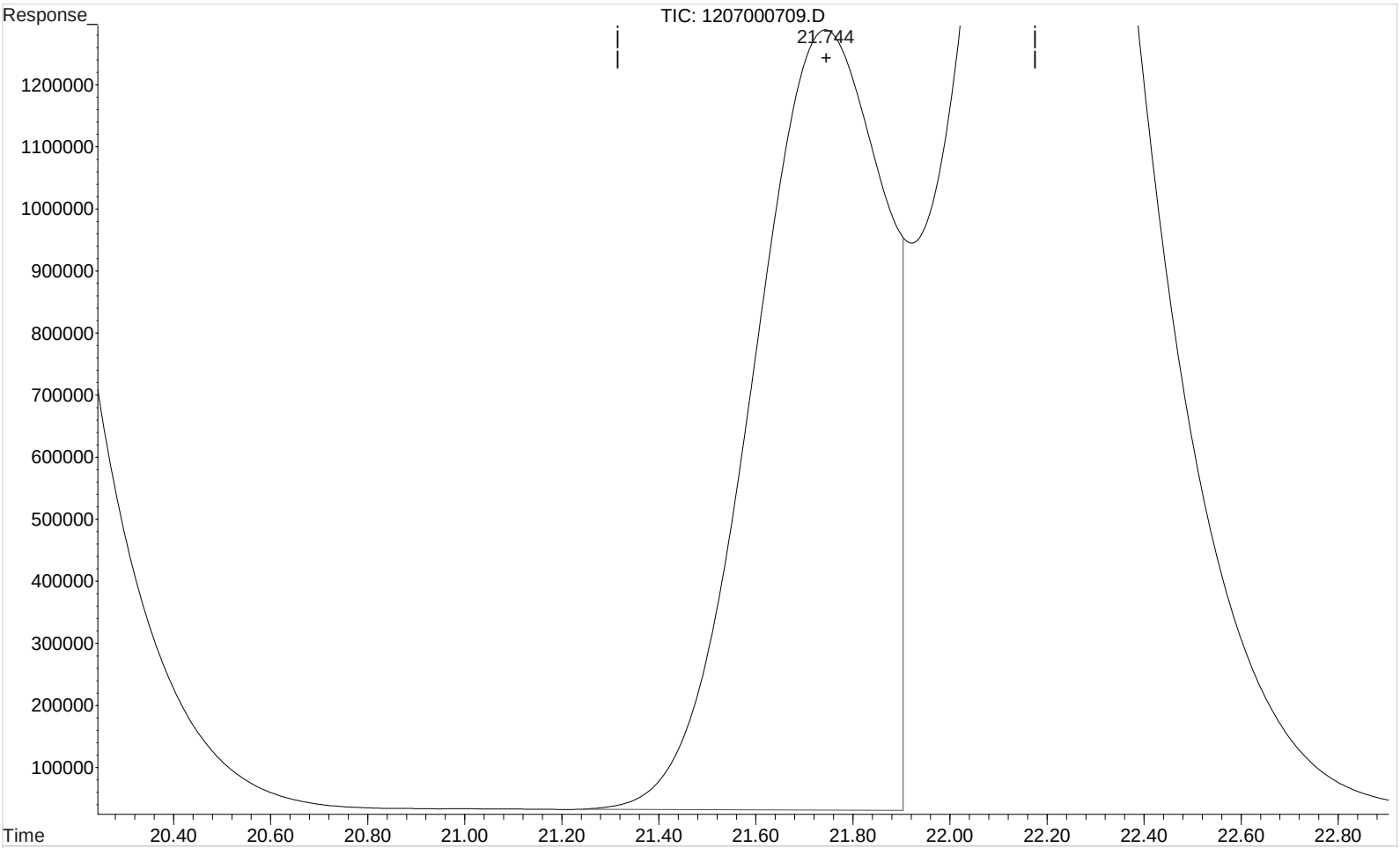


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000709.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:16:36 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:16:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.744min 967.112 ug/L

response 23707470

Manual Integration:

Before

12/08/16

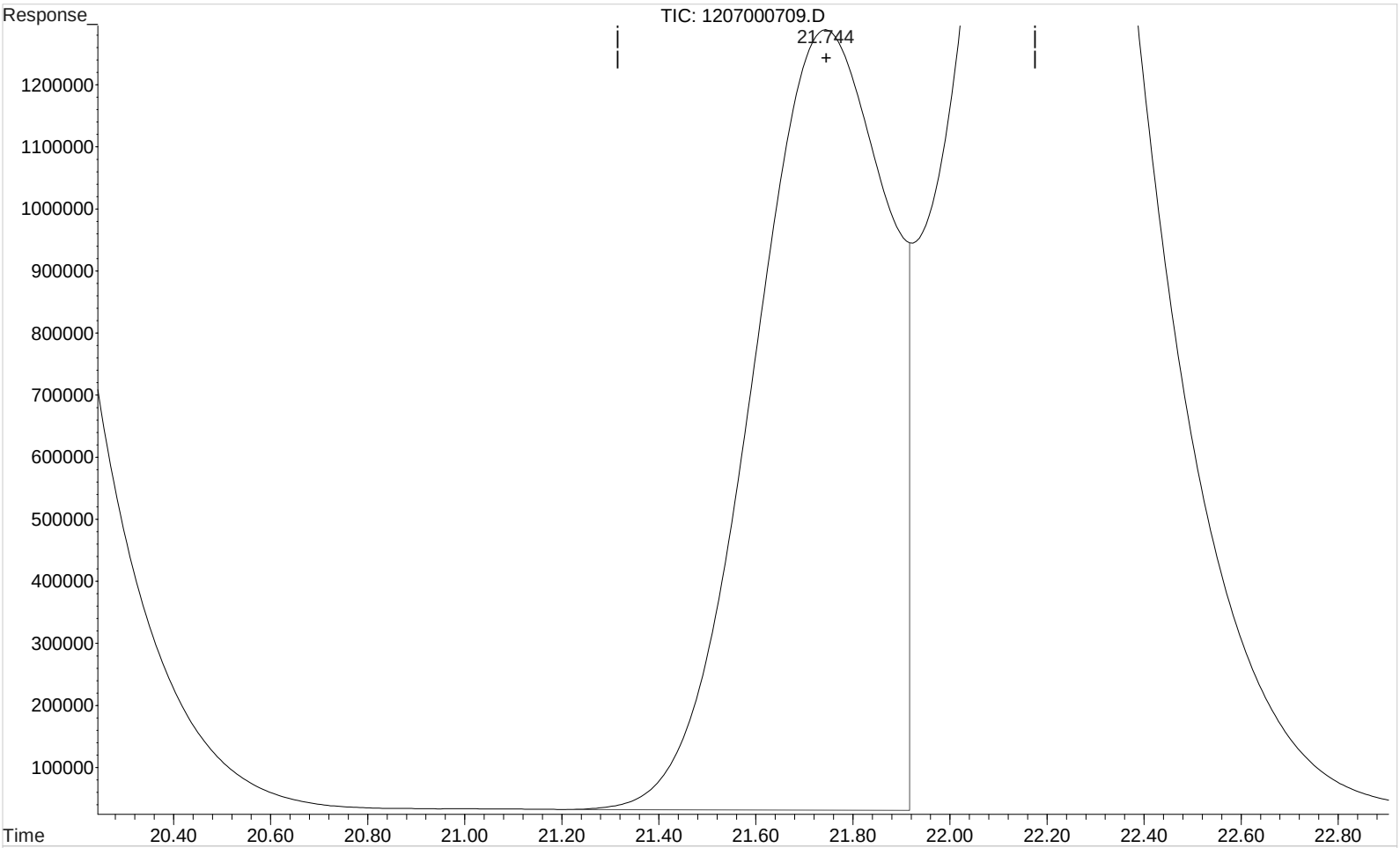
(+) = Expected Retention Time

(b)(6)
1st 12/08/16
2nd 12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000709.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:16:36 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:16:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.744min 997.554 ug/L m

response 24453723

Manual Integration:

After

BLC

12/08/16

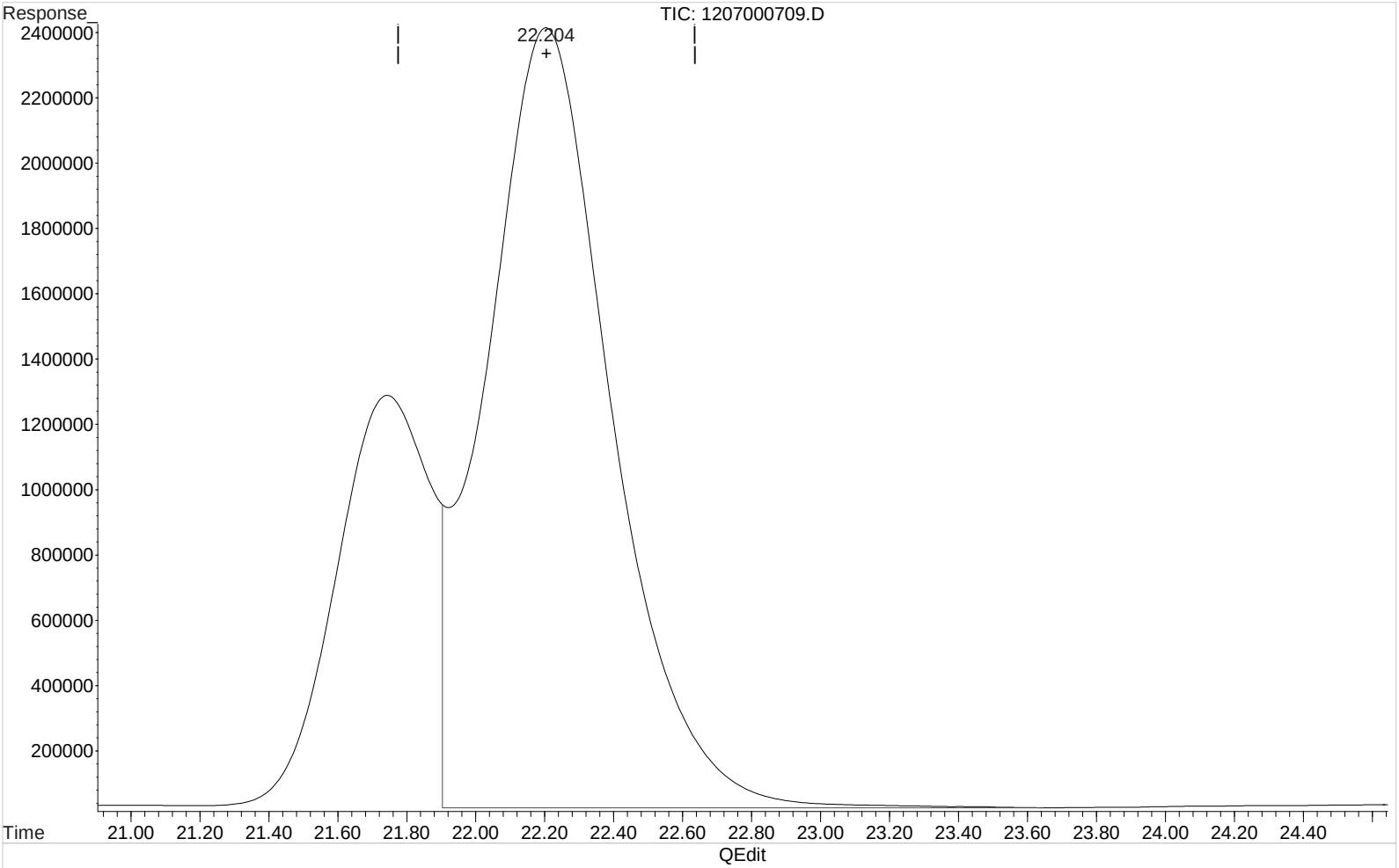
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000709.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:16:36 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:16:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.204min 1026.588 ug/L

response 60484608

Manual Integration:

Before

12/08/16

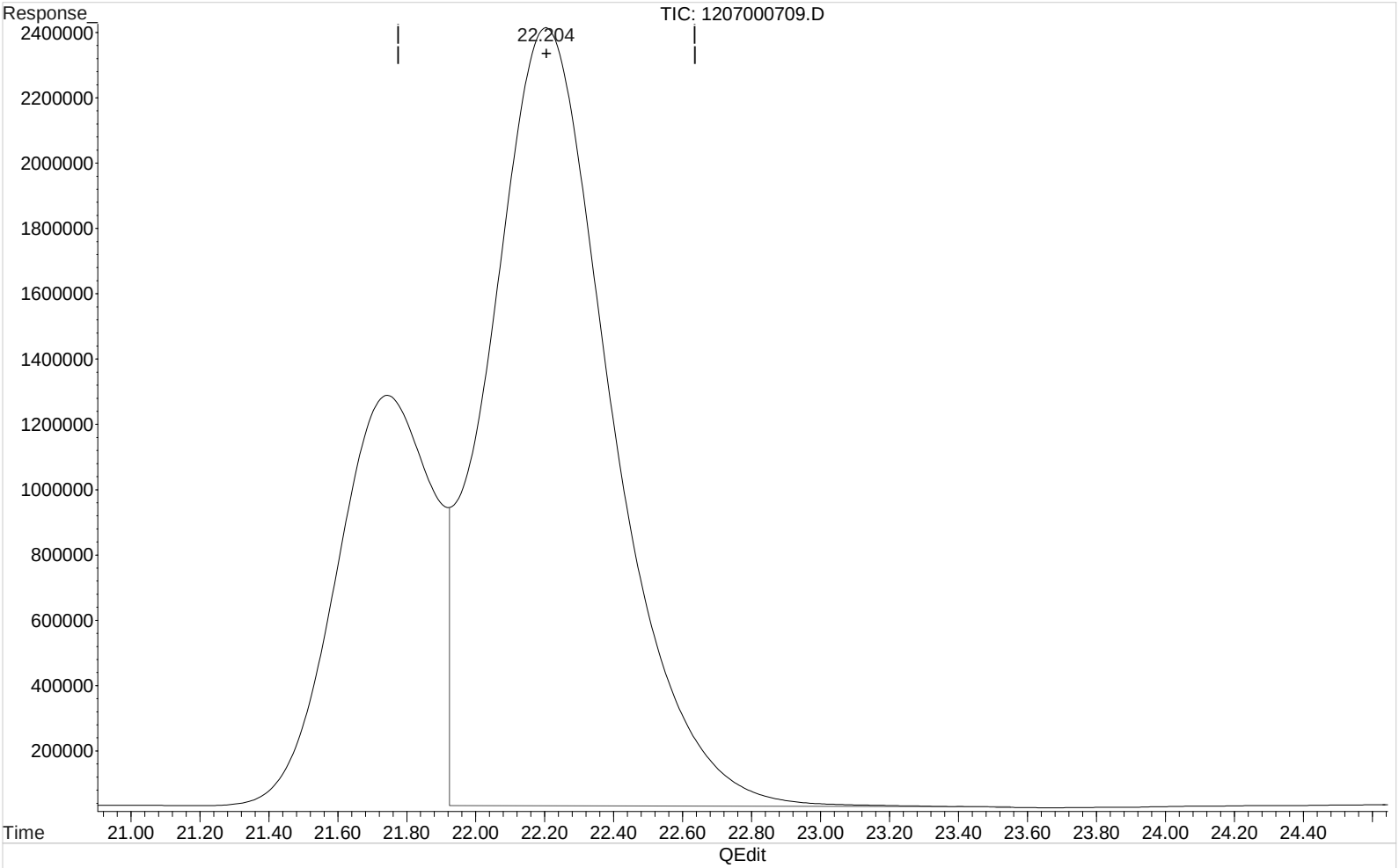
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000709.D Vial: 8
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:14:02 Operator: AE
Sample : ICAL 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:16:36 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:16:10 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.204min 999.743 ug/L m

response 58902914

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:19:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
18) S	1-Chloro-3-Nitrobenzene	29.700	42294963	1917.388	ug/L	
	Target Compounds					
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2) T	HMX	4.787	23722211	1979.985	ug/L	m
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4) T	RDX	8.380	38913573	1951.255	ug/L	
5) T	1,3,5-TNB	10.520	87503916	1951.353	ug/L	
6) T	1,3-DNB	13.860	117702258	1940.670	ug/L	
7) T	3,5-Dinitroaniline	14.967	93512376	1955.089	ug/L	m
8) T	Tetryl	15.587	65318779	1949.736	ug/L	
9) T	Nitrobenzene	16.200	76224644	1969.834	ug/L	
10) T	2,4,6-TNT	17.440	82170115	1976.657	ug/L	
11) T	4-Amino-2,6-DNT	19.200	58780326	1998.831	ug/L	
12) T	2-Amino-4,6-DNT	20.034	81844649	1904.951	ug/L	
13) T	2,6-DNT	21.754	47948148	1956.773	ug/L	m
14) T	2,4-DNT	22.214	117648318	1996.898	ug/L	m
15) T	2-NT	25.327	35281189	1961.314	ug/L	
16) T	4-NT	26.247	30767210	1919.786	ug/L	
17) T	3-NT	27.380	39399716	1948.341	ug/L	

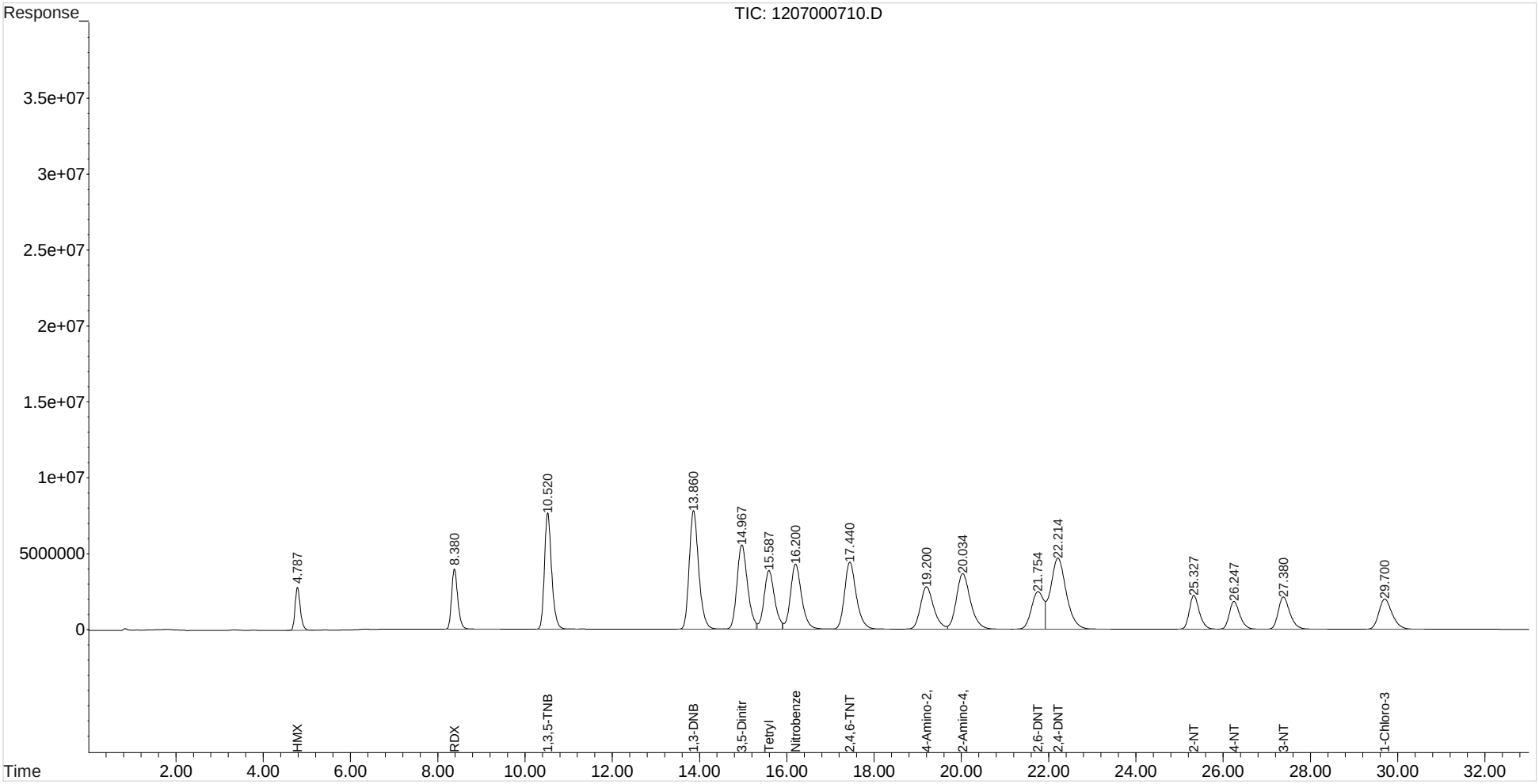
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:19:10 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

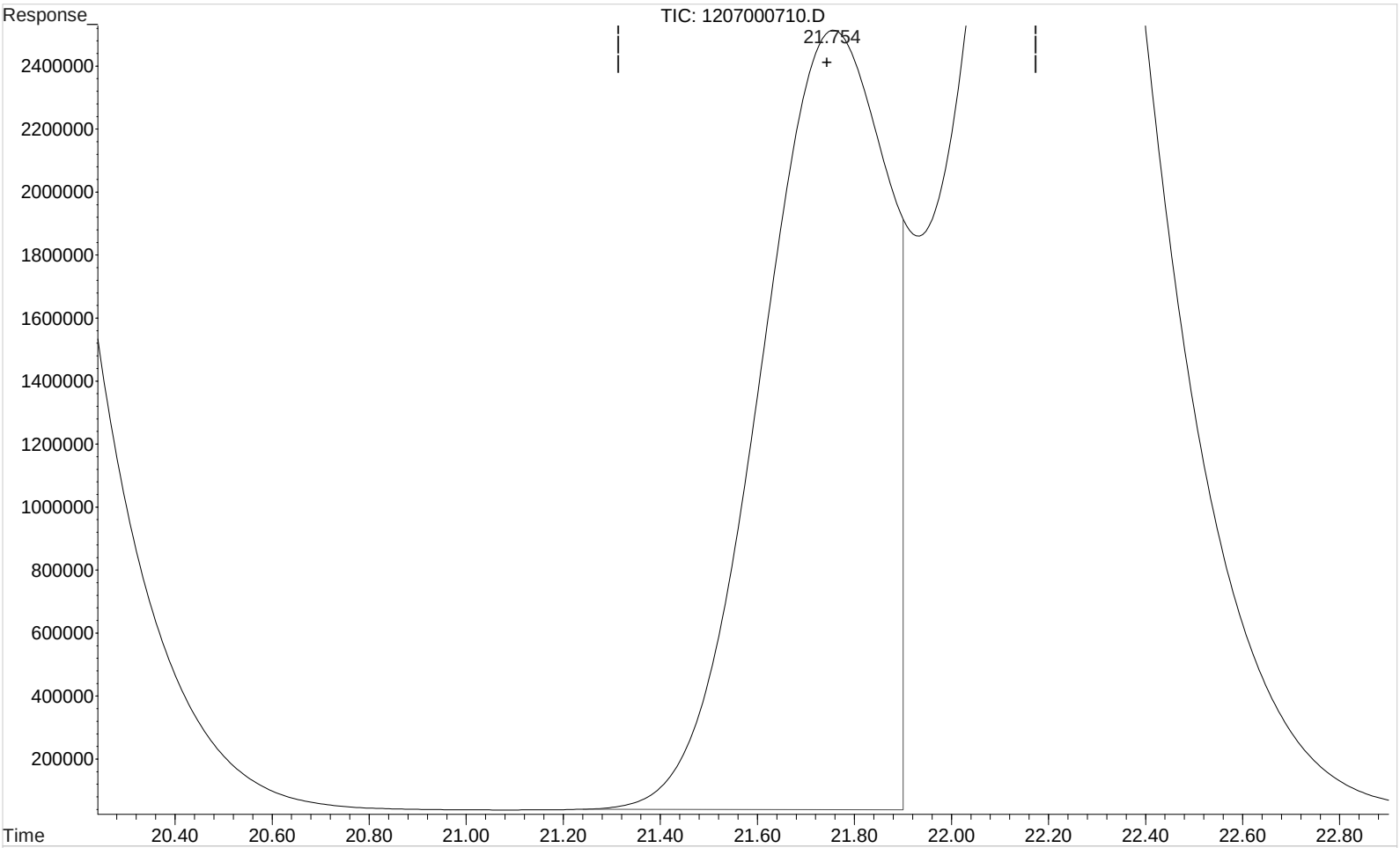


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.754min 1840.068 ug/L

response 45088454

Manual Integration:

Before

12/08/16

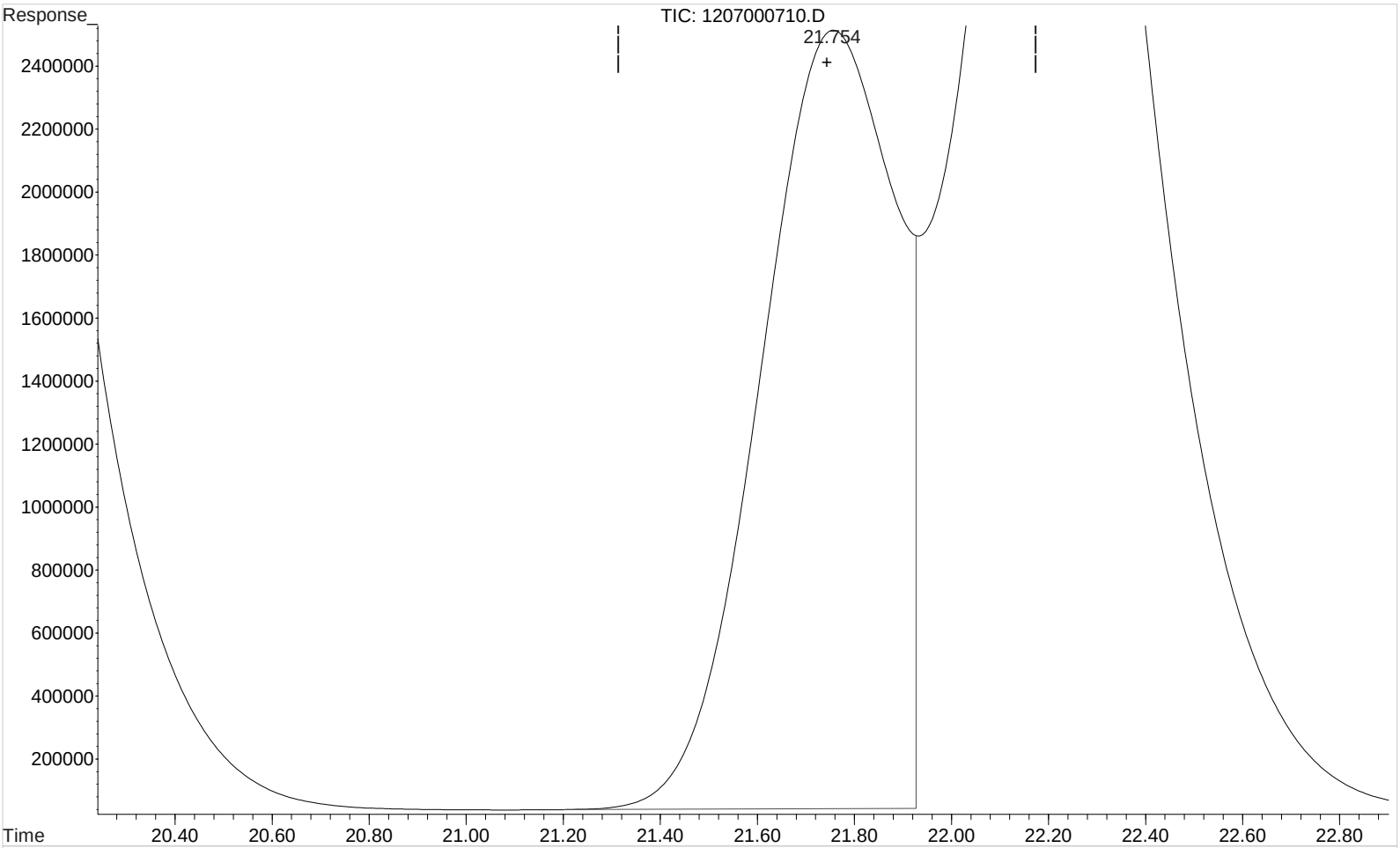
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.754min 1956.773 ug/L m

response 47948148

Manual Integration:

After

WP

12/08/16

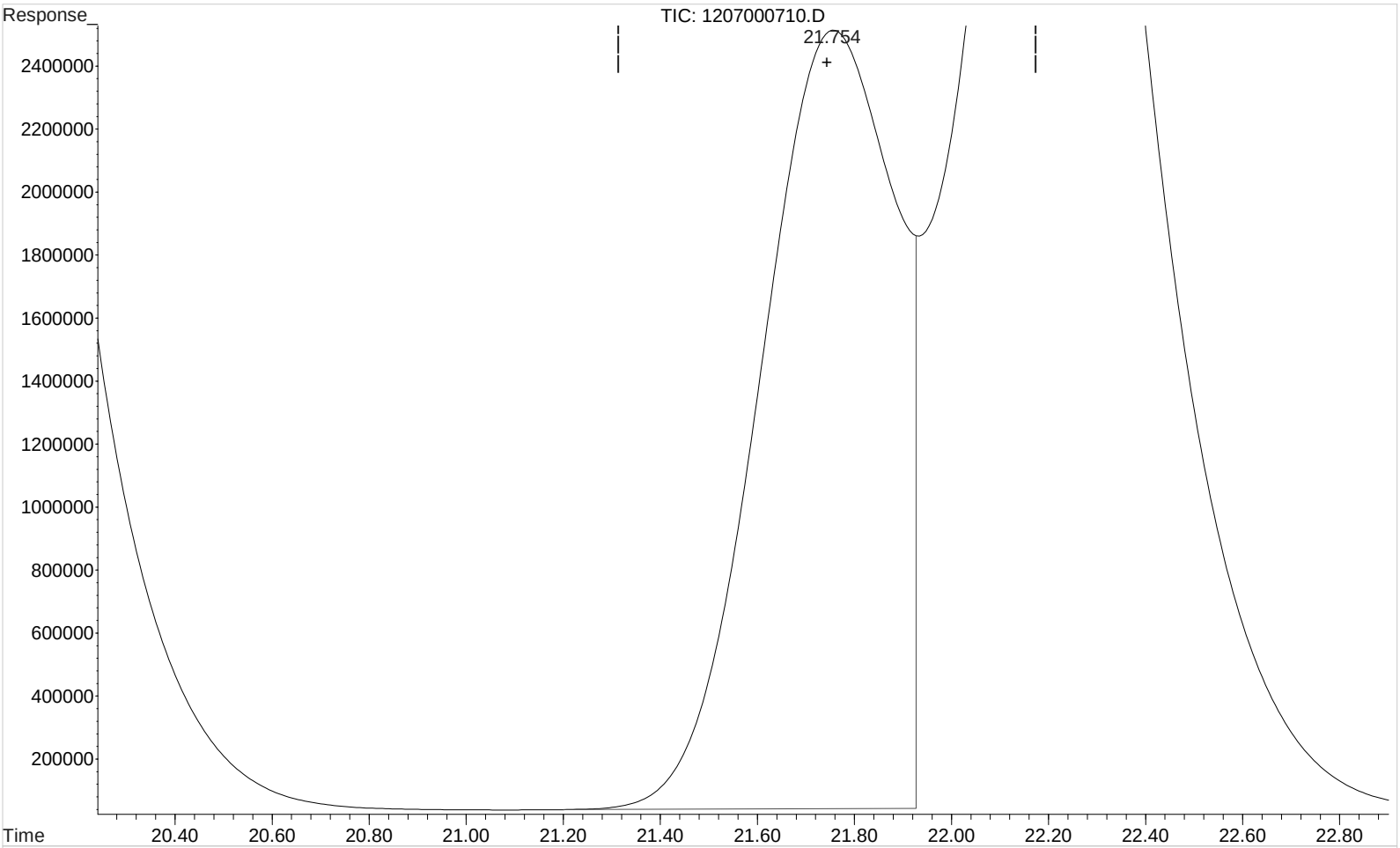
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(13) 2,6-DNT (T)

21.754min 1956.773 ug/L m

response 47948148

Manual Integration:

After

BLC

12/08/16

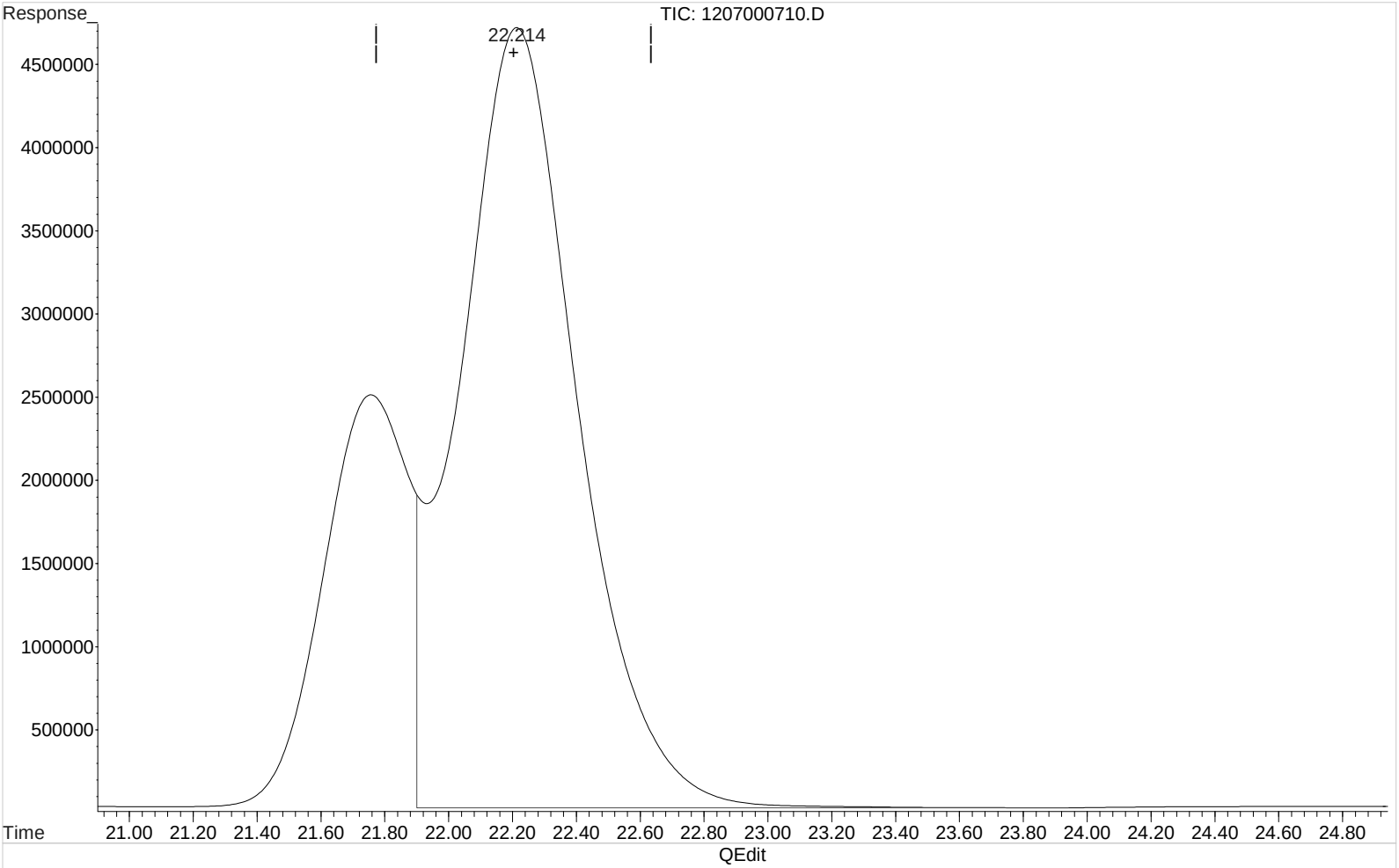
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.214min 2045.708 ug/L

response 120524006

Manual Integration:

Before

12/08/16

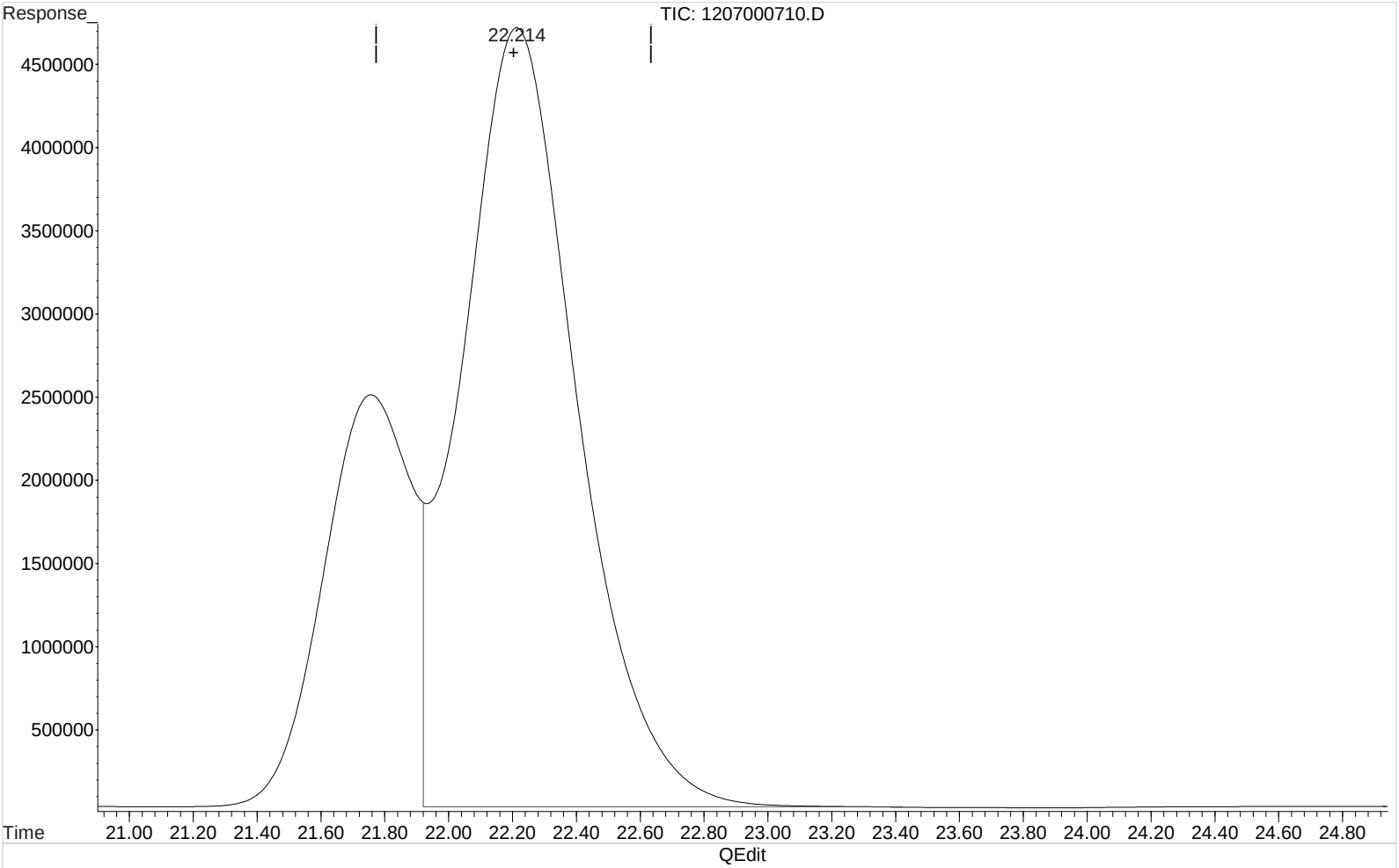
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(14) 2,4-DNT (T)

22.214min 1996.898 ug/L m

response 117648318

Manual Integration:

After

BLC

12/08/16

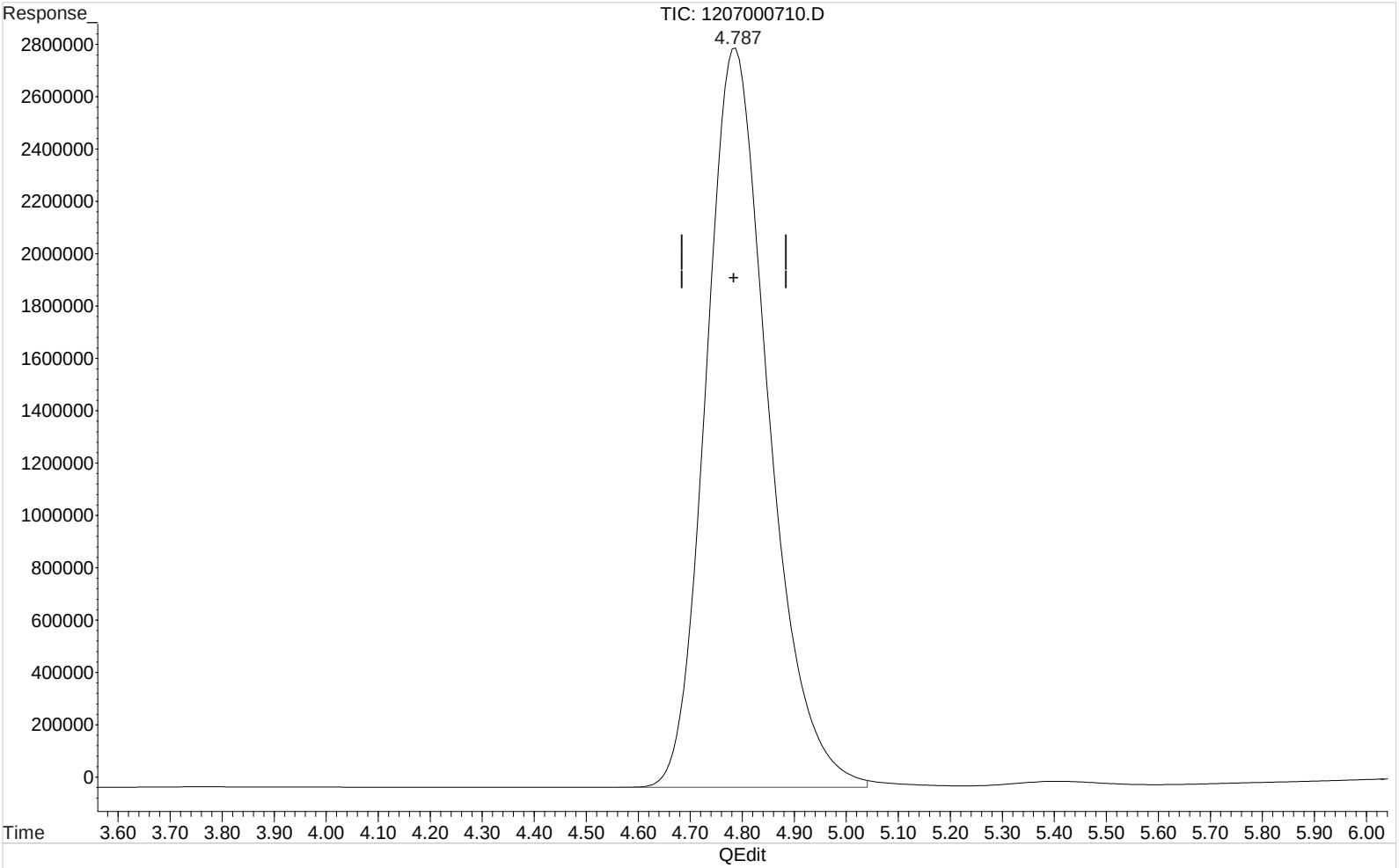
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(2) HMX (T)

4.787min 1973.169 ug/L

response 23640553

Manual Integration:

Before

12/08/16

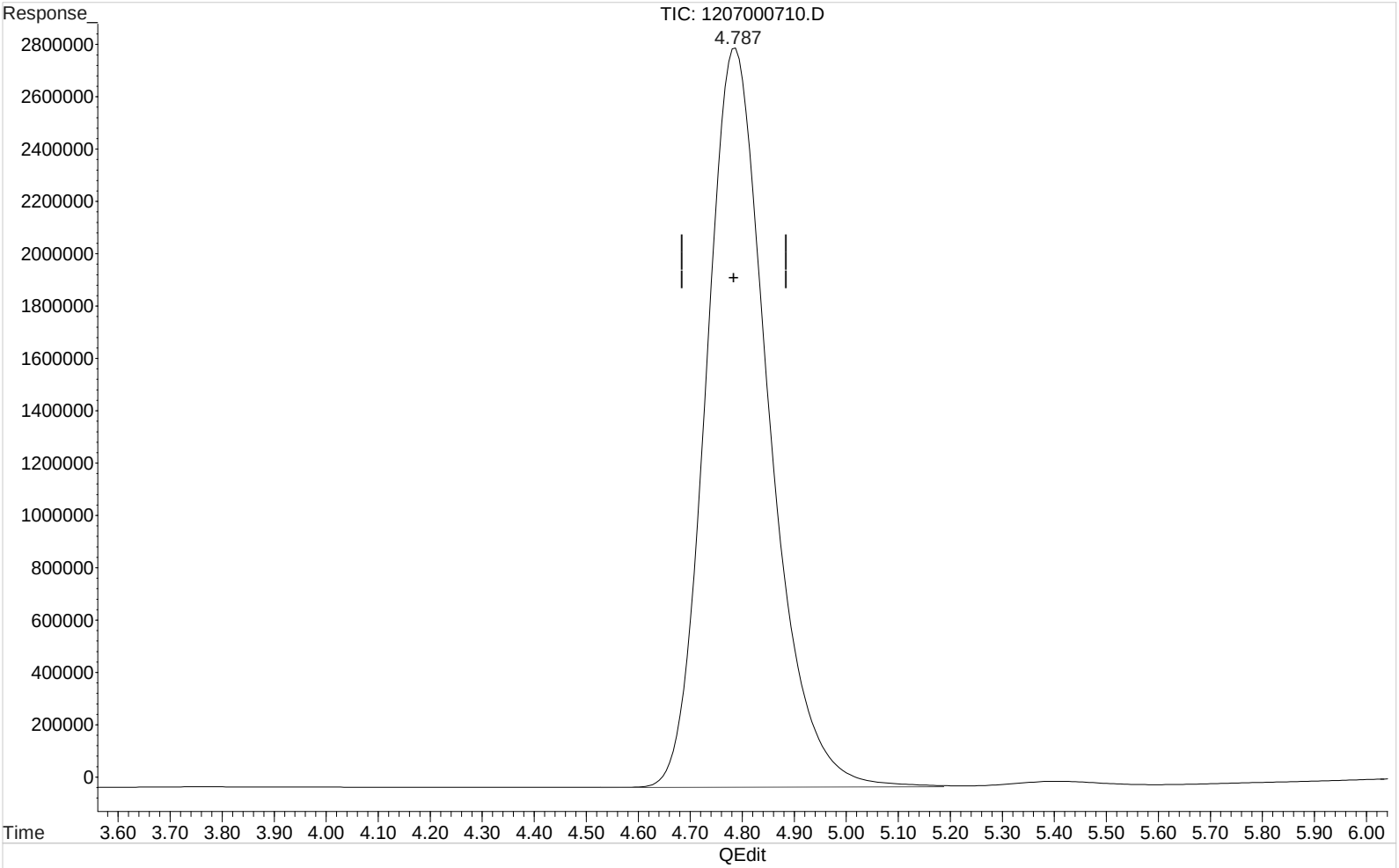
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(2) HMX (T)

4.787min 1979.985 ug/L m

response 23722211

Manual Integration:

After

BLC

12/08/16

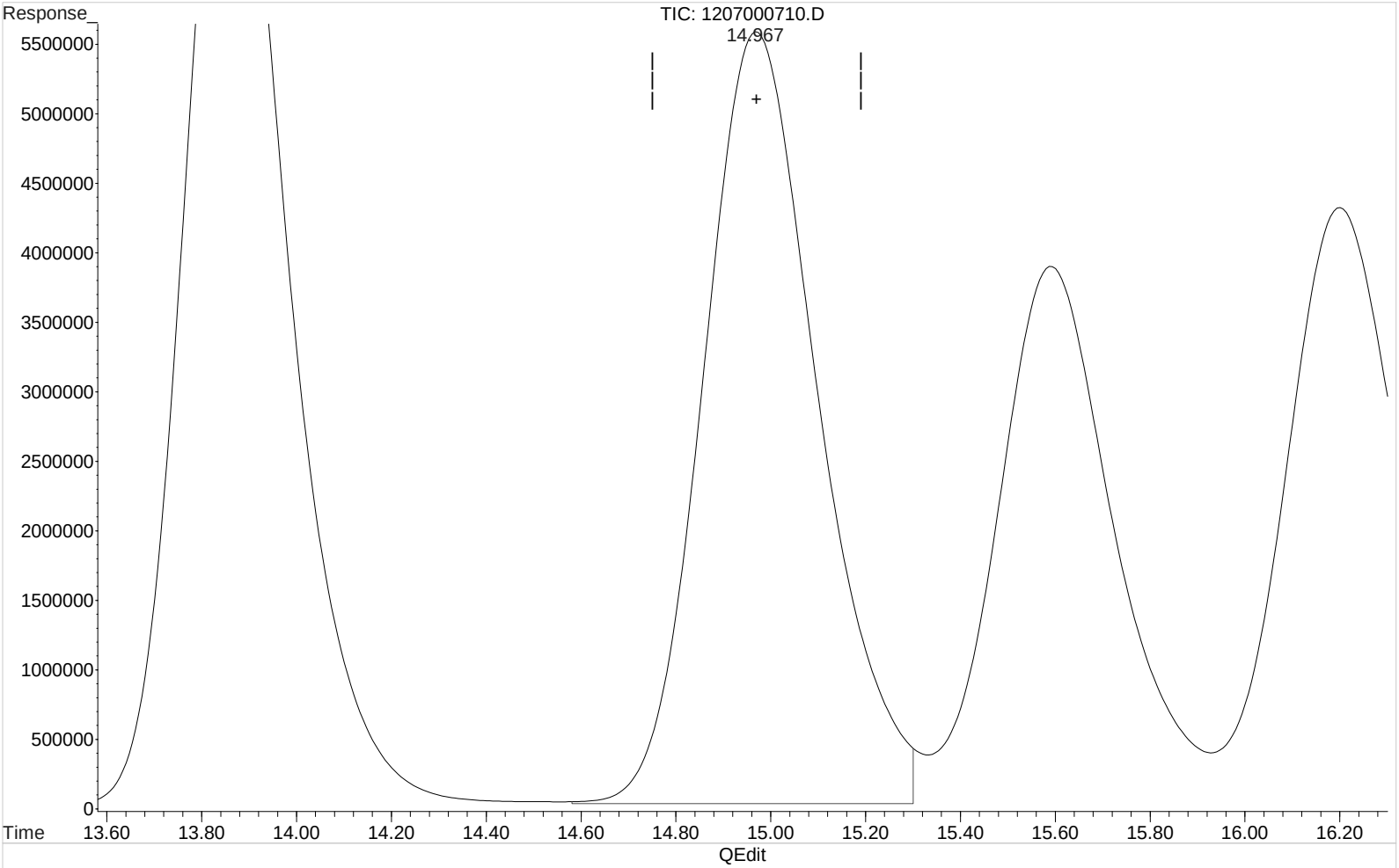
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.967min 1950.402 ug/L

response 93288206

Manual Integration:

Before

12/08/16

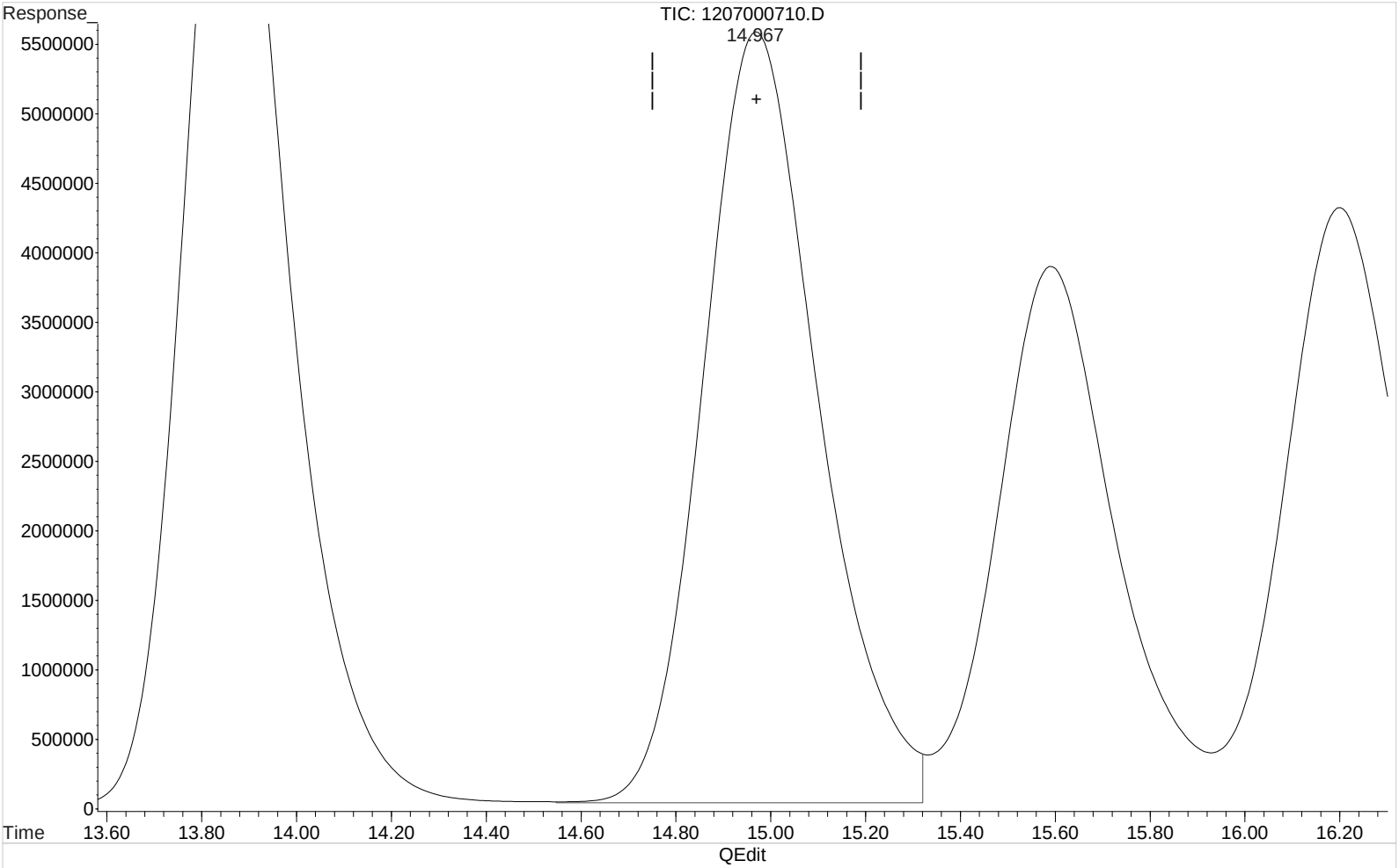
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000710.D Vial: 9
Signal(s) : DAD1A.ch
Acq On : 07-Dec-2016, 23:50:16 Operator: AE
Sample : ICAL 2000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:18:00 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:17:35 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(7) 3,5-Dinitroaniline (T)

14.967min 1955.089 ug/L m

response 93512376

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000711.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:19:50 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:19:28 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
18) S	1-Chloro-3-Nitrobenzene	29.688	109933967	5013.299	ug/L
	Target Compounds				
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2) T	HMX	4.795	61046558	5102.573	ug/L
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4) T	RDX	8.375	100409384	5052.450	ug/L
5) T	1,3,5-TNB	10.501	226131460	5060.356	ug/L
6) T	1,3-DNB	13.835	304056740	5034.610	ug/L
7) T	3,5-Dinitroaniline	14.941	242816511	5092.969	ug/L
8) T	Tetryl	15.568	169129908	5066.642	ug/L
9) T	Nitrobenzene	16.168	196342707	5084.940	ug/L
10) T	2,4,6-TNT	17.421	212586394	5122.448	ug/L
11) T	4-Amino-2,6-DNT	19.175	150900677	5131.820	ug/L
12) T	2-Amino-4,6-DNT	20.001	212629441	4982.823	ug/L
13) T	2,6-DNT	21.735	123855451	5070.219	ug/L
14) T	2,4-DNT	22.188	303841514	5158.381	ug/L
15) T	2-NT	25.308	91795667	5117.146	ug/L
16) T	4-NT	26.235	79961280	5018.107	ug/L
17) T	3-NT	27.361	102384406	5081.725	ug/L

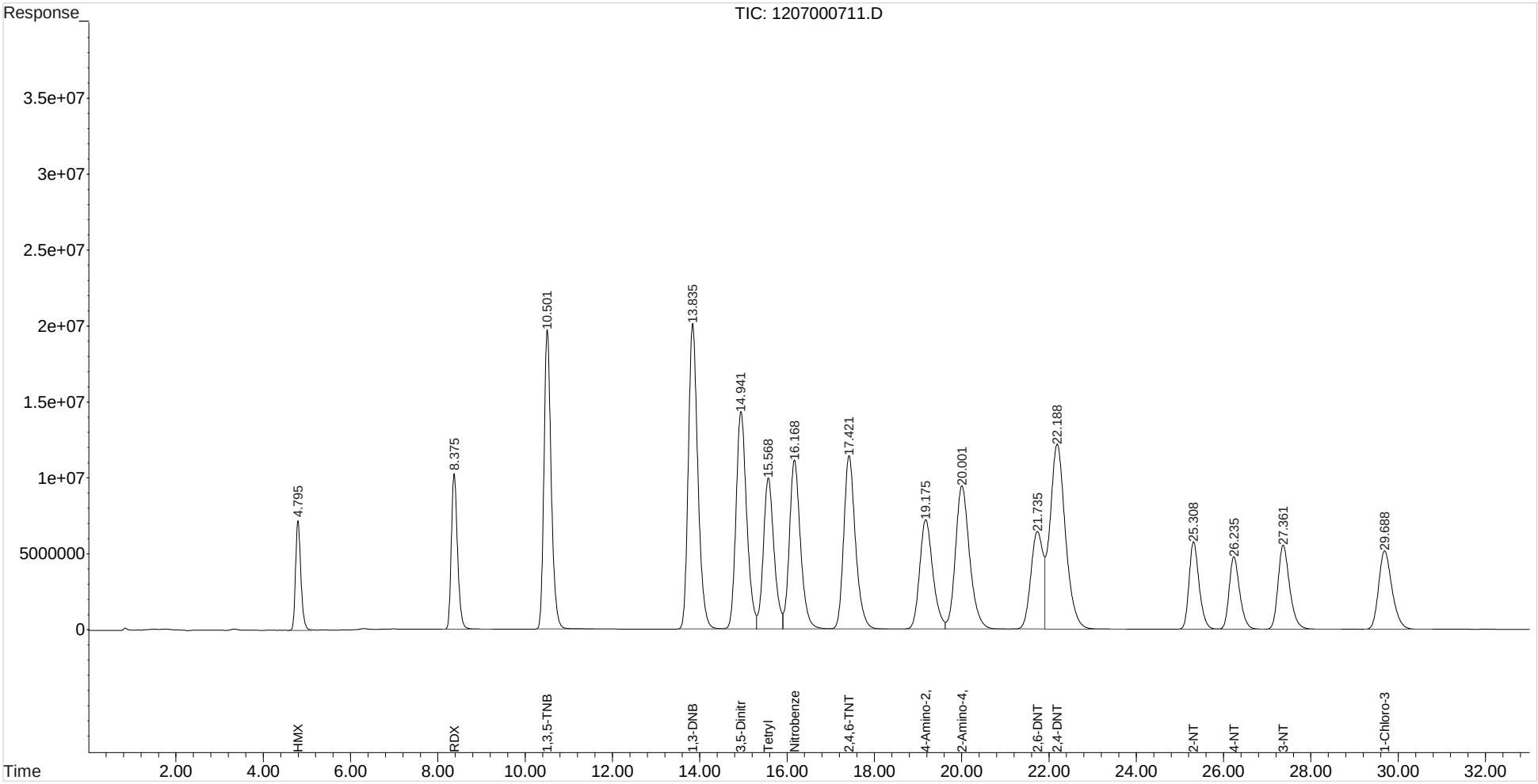
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000711.D Vial: 10
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 00:26:29 Operator: AE
Sample : ICAL 5000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:19:50 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:19:28 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000712.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:21:24 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:20:15 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

	Compound	R.T.	Response	Conc	Units	
	System Monitoring Compounds					
18) S	1-Chloro-3-Nitrobenzene	29.704	188214338	8580.252	ug/L	
	Target Compounds					
1) T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2) T	HMX	4.784	116952177	9750.438	ug/L	m
3) T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4) T	RDX	8.378	193516345	9724.702	ug/L	
5) T	1,3,5-TNB	10.518	436043077	9743.045	ug/L	
6) T	1,3-DNB	13.844	585109637	9679.945	ug/L	
7) T	3,5-Dinitroaniline	14.958	466801971	9768.261	ug/L	
8) T	Tetryl	15.584	328561092	9826.366	ug/L	
9) T	Nitrobenzene	16.191	378180319	9773.468	ug/L	
10) T	2,4,6-TNT	17.438	410119977	9852.027	ug/L	
11) T	4-Amino-2,6-DNT	19.191	290587885	9849.834	ug/L	
12) T	2-Amino-4,6-DNT	20.018	410849938	9632.119	ug/L	
13) T	2,6-DNT	21.751	239813080	9799.925	ug/L	m
14) T	2,4-DNT	22.198	592003966	10010.937	ug/L	
15) T	2-NT	25.318	175973088	9780.967	ug/L	
16) T	4-NT	26.244	153399761	9622.509	ug/L	
17) T	3-NT	27.371	196431690	9729.768	ug/L	

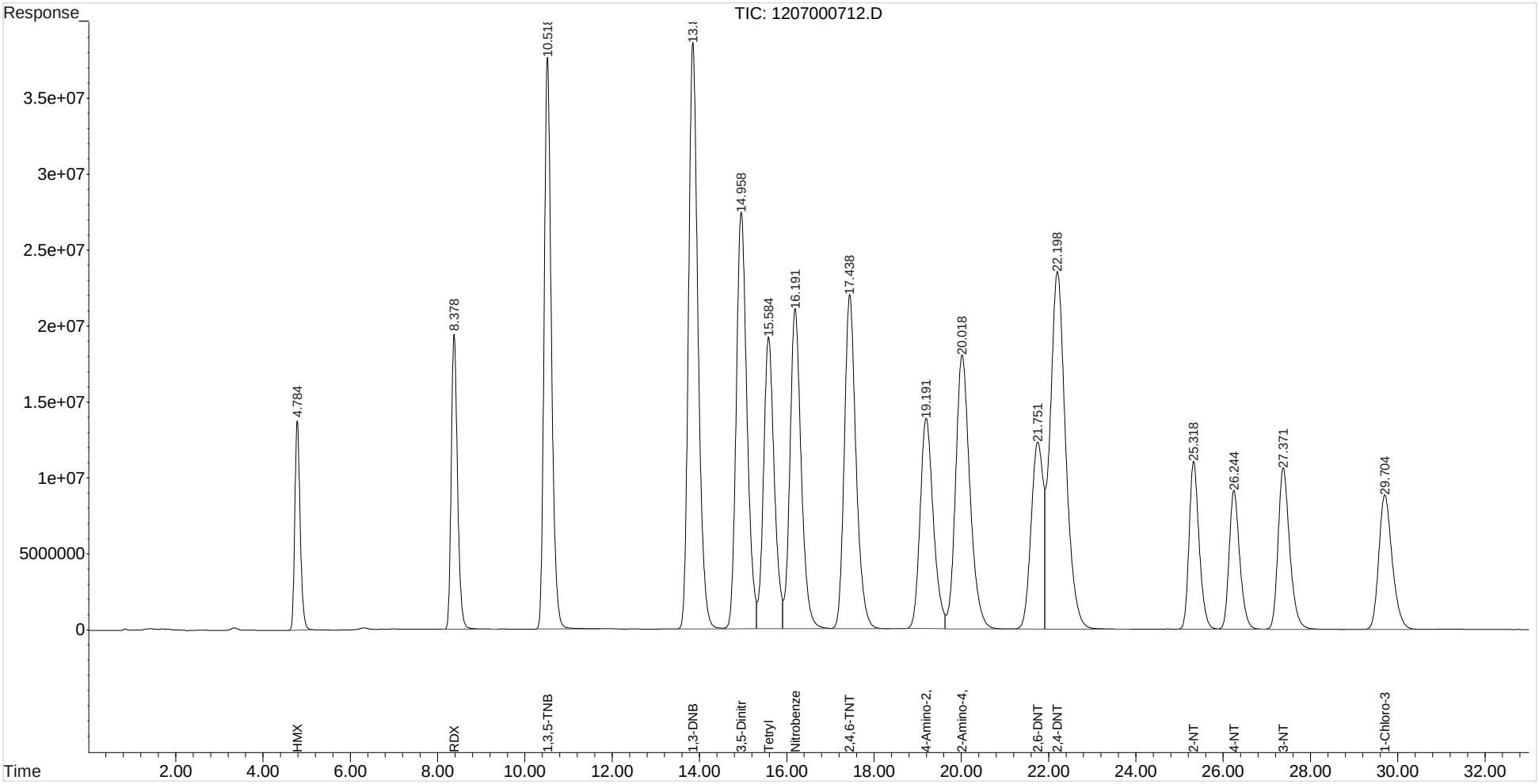
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000712.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:21:24 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:20:15 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

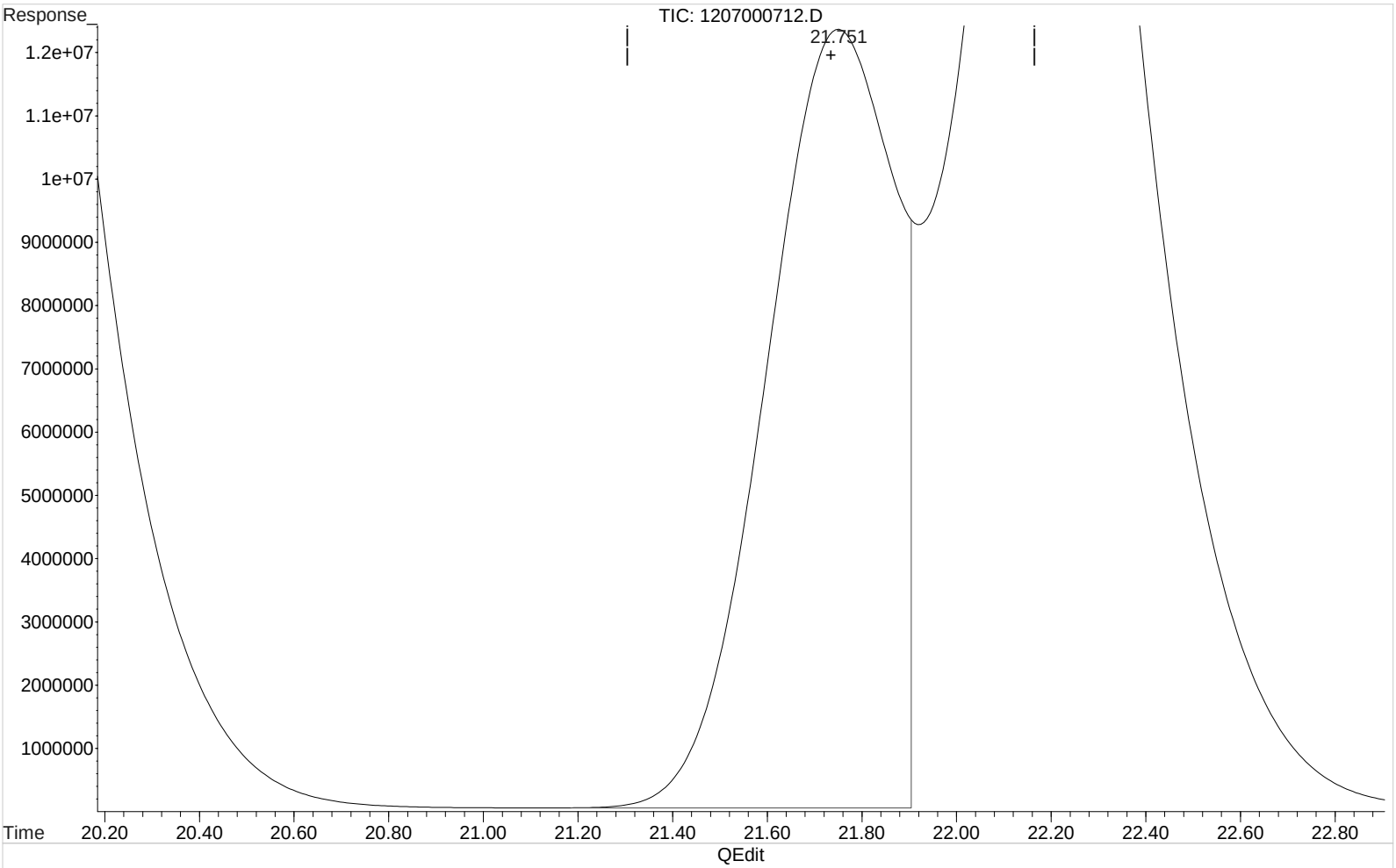


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000712.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:20:40 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:20:15 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.751min 9489.334 ug/L

response 232212639

Manual Integration:

Before

12/08/16

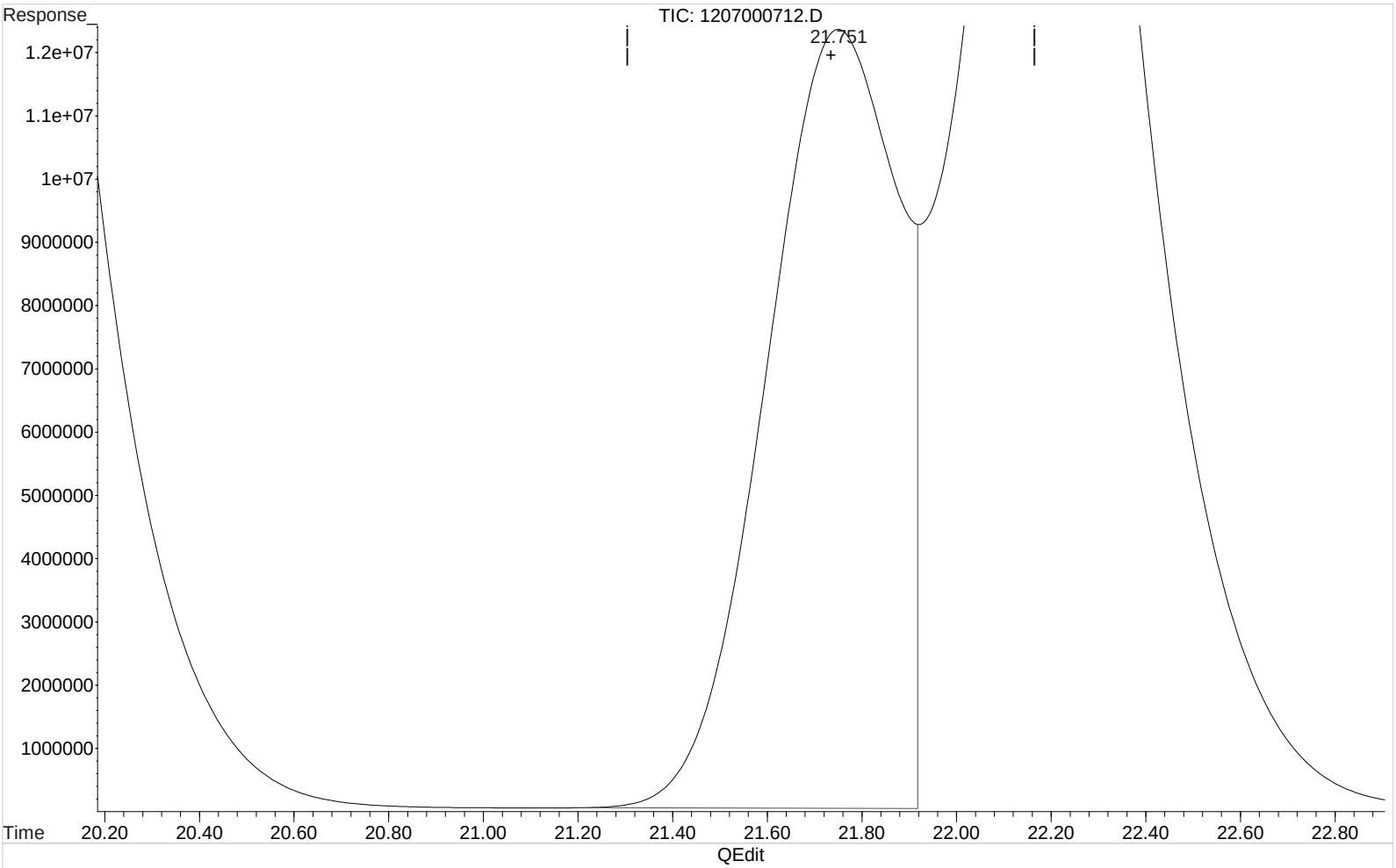
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000712.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:20:40 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:20:15 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.751min 9799.925 ug/L m

response 239813080

Manual Integration:

After

BLC

12/08/16

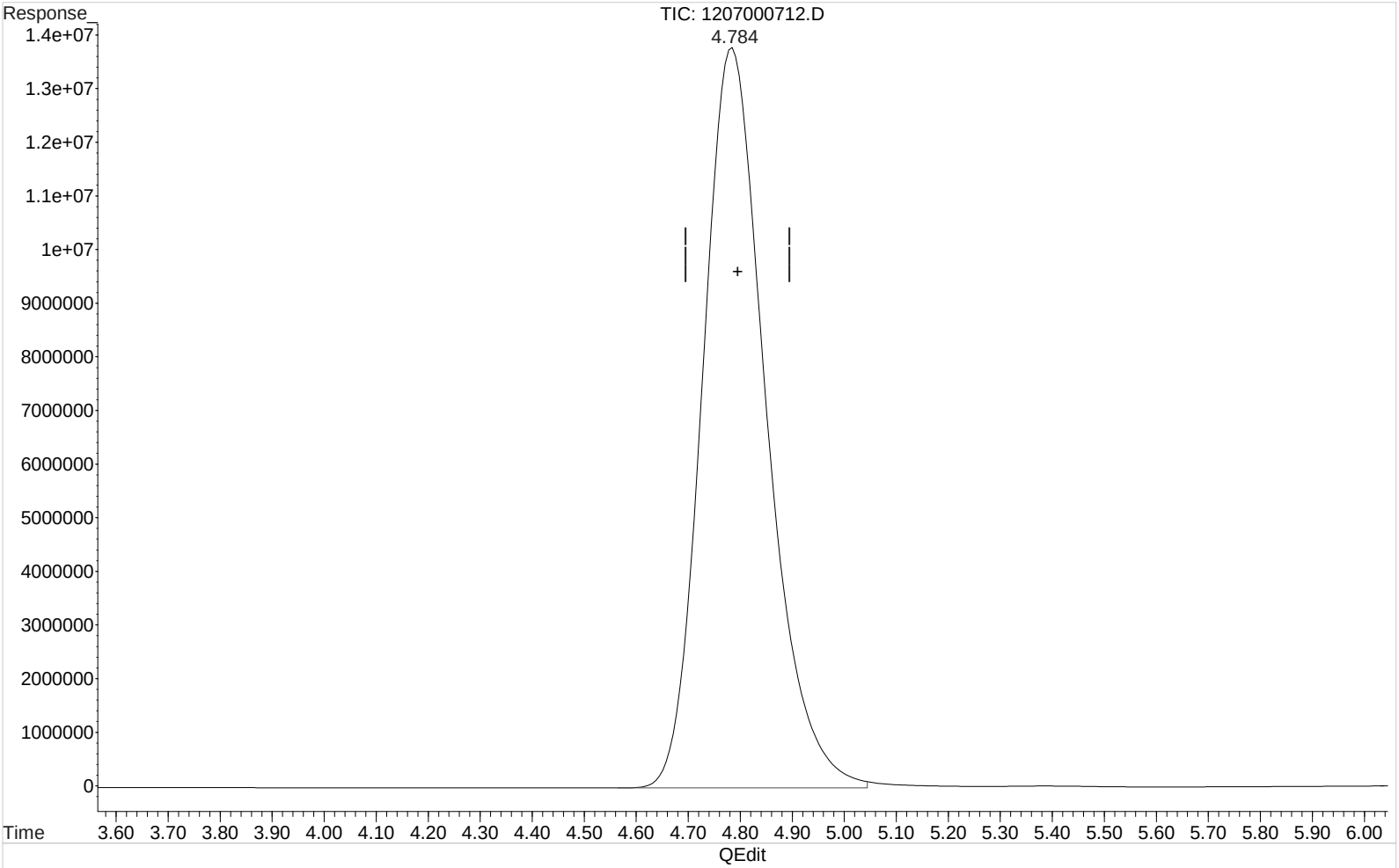
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000712.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:20:40 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:20:15 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(2) HMX (T)

4.784min 9782.211 ug/L

response 117333279

Manual Integration:

Before

12/08/16

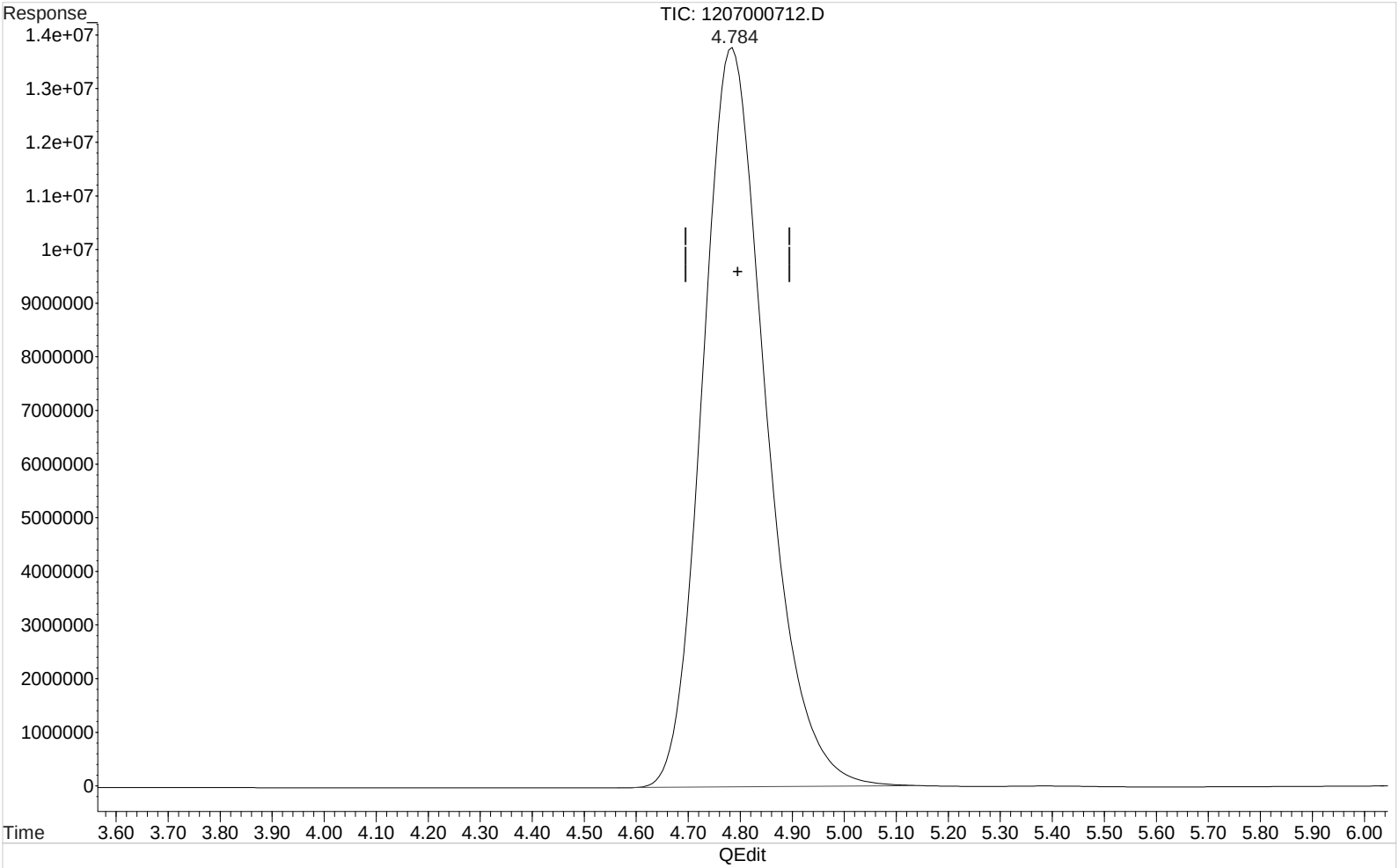
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000712.D Vial: 11
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:02:46 Operator: AE
Sample : ICAL 10000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:20:40 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:20:15 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(2) HMX (T)

4.784min 9750.438 ug/L m

response 116952177

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:23:02 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units	
		System Monitoring Compounds					
18)	S	1-Chloro-3-Nitrobenzene	29.704	435685183	20180.213	ug/L	
		Target Compounds					
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L	
2)	T	HMX	4.777	241966350	20229.108	ug/L	m
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L	
4)	T	RDX	8.371	401104321	20218.386	ug/L	
5)	T	1,3,5-TNB	10.511	900466088	20177.826	ug/L	
6)	T	1,3-DNB	13.844	1214946342	20171.579	ug/L	
7)	T	3,5-Dinitroaniline	14.944	968917588	20327.834	ug/L	
8)	T	Tetryl	15.578	672938780	20164.667	ug/L	
9)	T	Nitrobenzene	16.184	775365787	20088.658	ug/L	
10)	T	2,4,6-TNT	17.438	850093674	20454.841	ug/L	
11)	T	4-Amino-2,6-DNT	19.184	601309368	20416.185	ug/L	
12)	T	2-Amino-4,6-DNT	20.004	851309194	20040.326	ug/L	
13)	T	2,6-DNT	21.758	497576104	20378.674	ug/L	m
14)	T	2,4-DNT	22.204	1201394842	20313.423	ug/L	m
15)	T	2-NT	25.324	362650447	20206.077	ug/L	
16)	T	4-NT	26.251	316882161	19961.209	ug/L	
17)	T	3-NT	27.384	404148803	20078.821	ug/L	

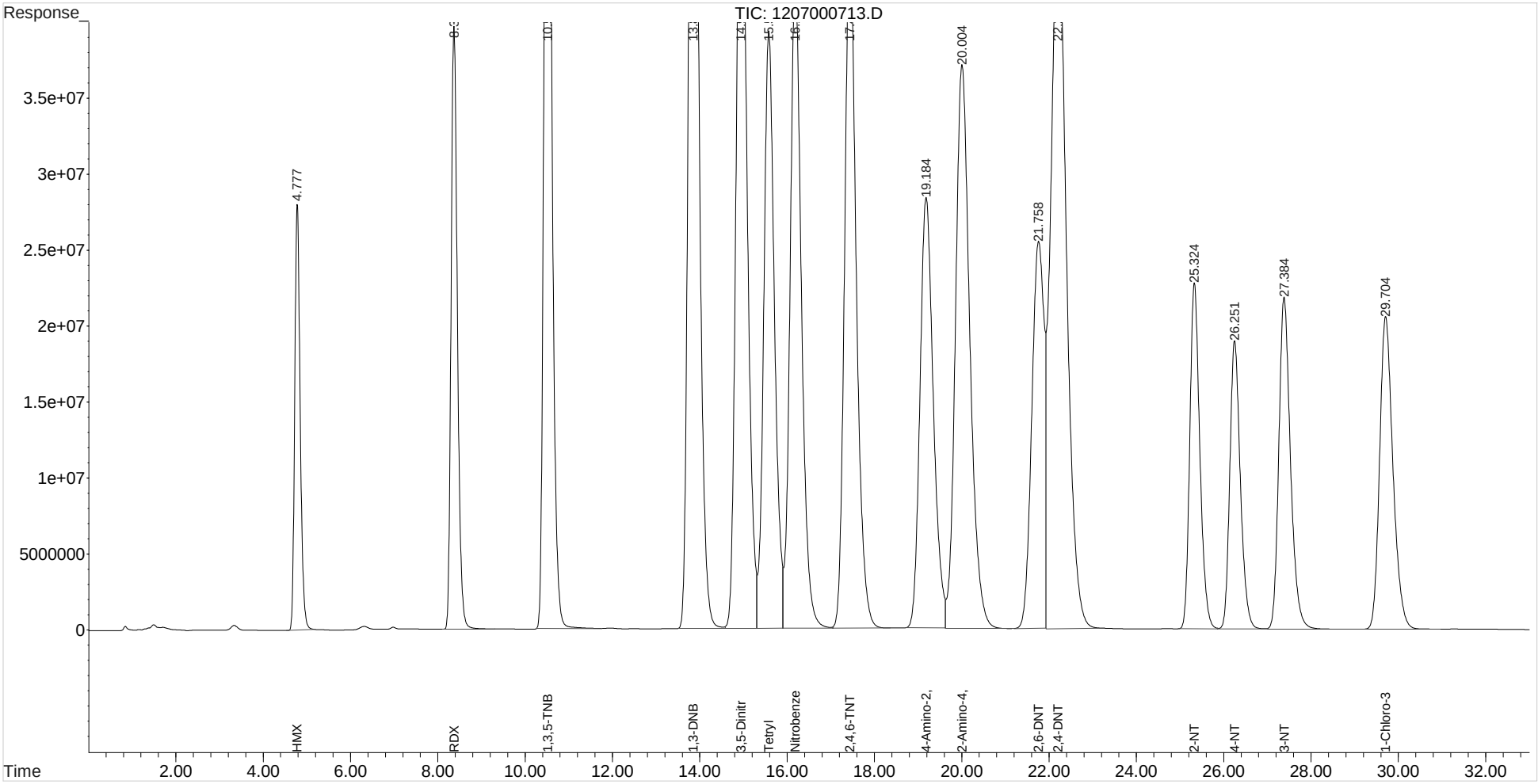
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:23:02 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

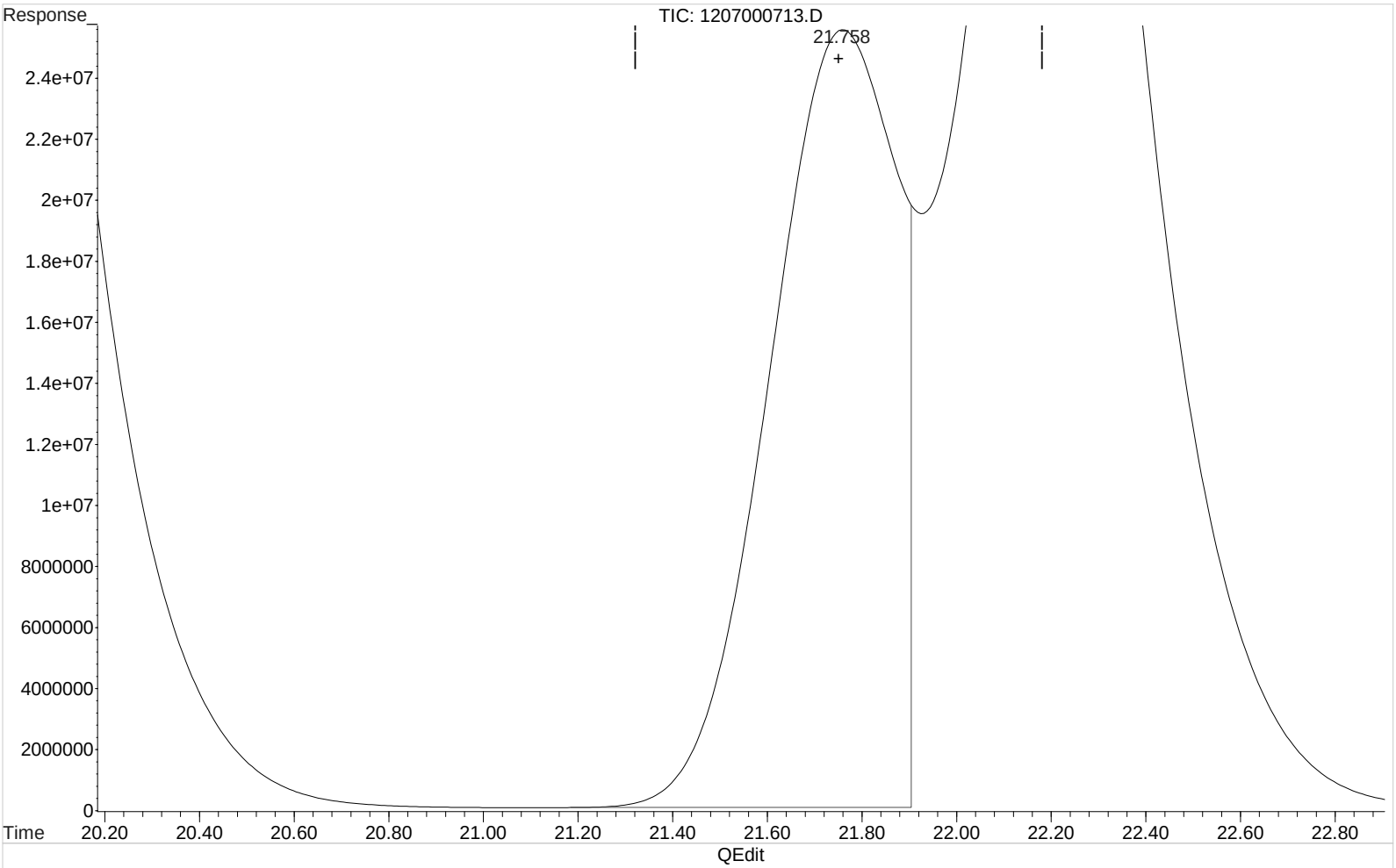


Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:22:15 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.758min 19437.420 ug/L

response 474593969

Manual Integration:

Before

12/08/16

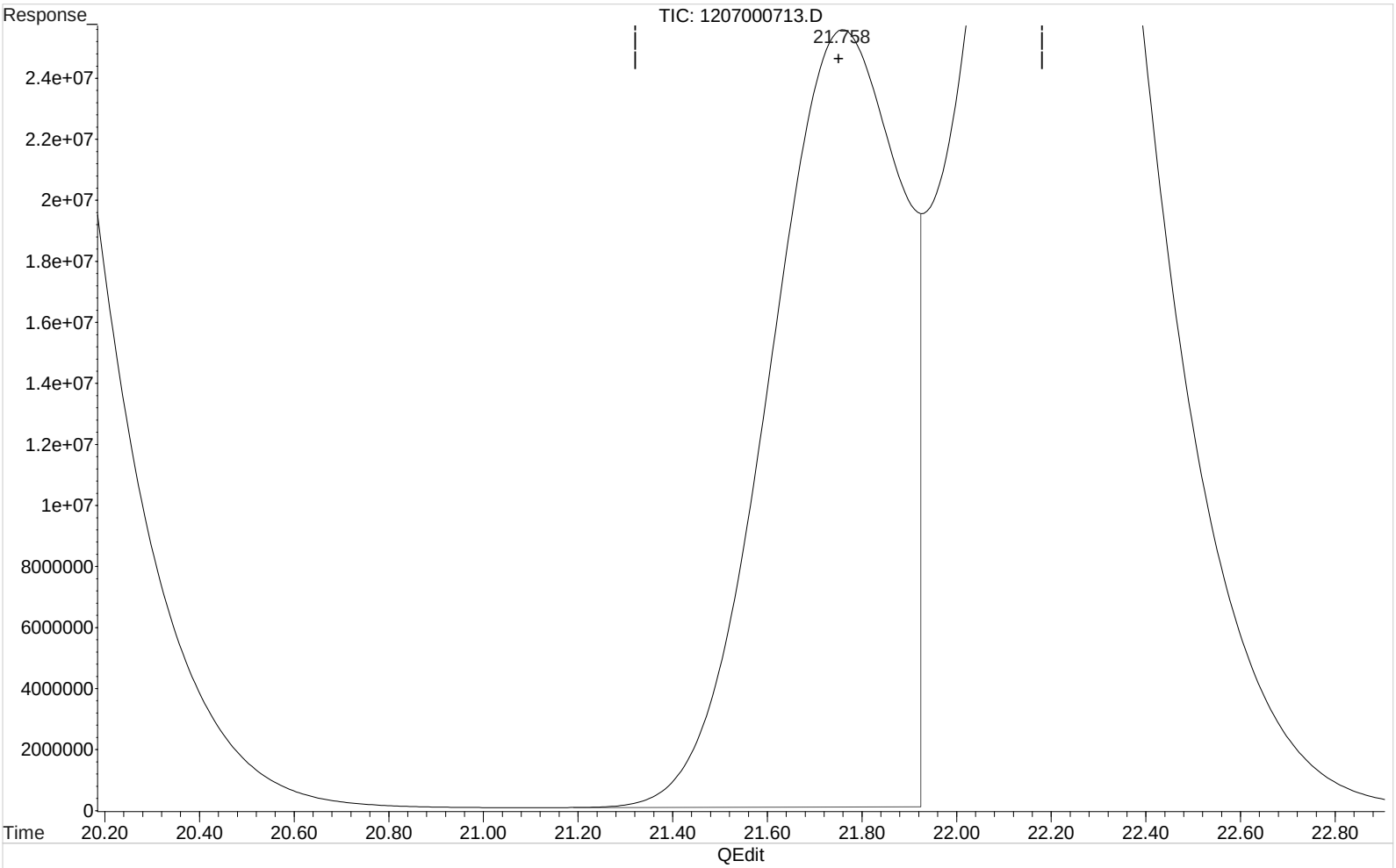
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:22:15 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(13) 2,6-DNT (T)

21.758min 20378.674 ug/L m

response 497576104

Manual Integration:

After

BLC

12/08/16

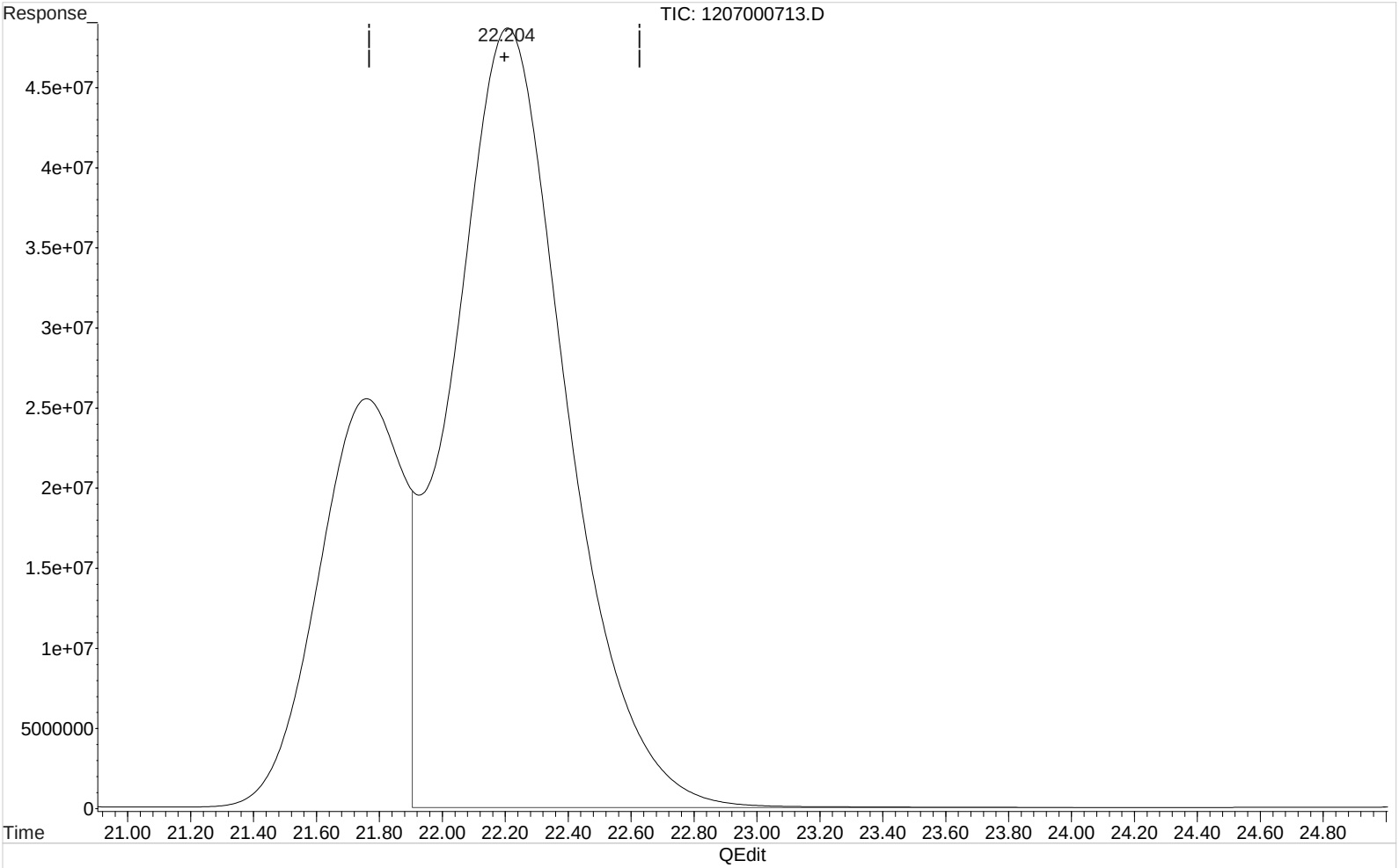
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:22:15 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.204min 20877.470 ug/L

response 1234754222

Manual Integration:

Before

12/08/16

(+) = Expected Retention Time

(b) (6)

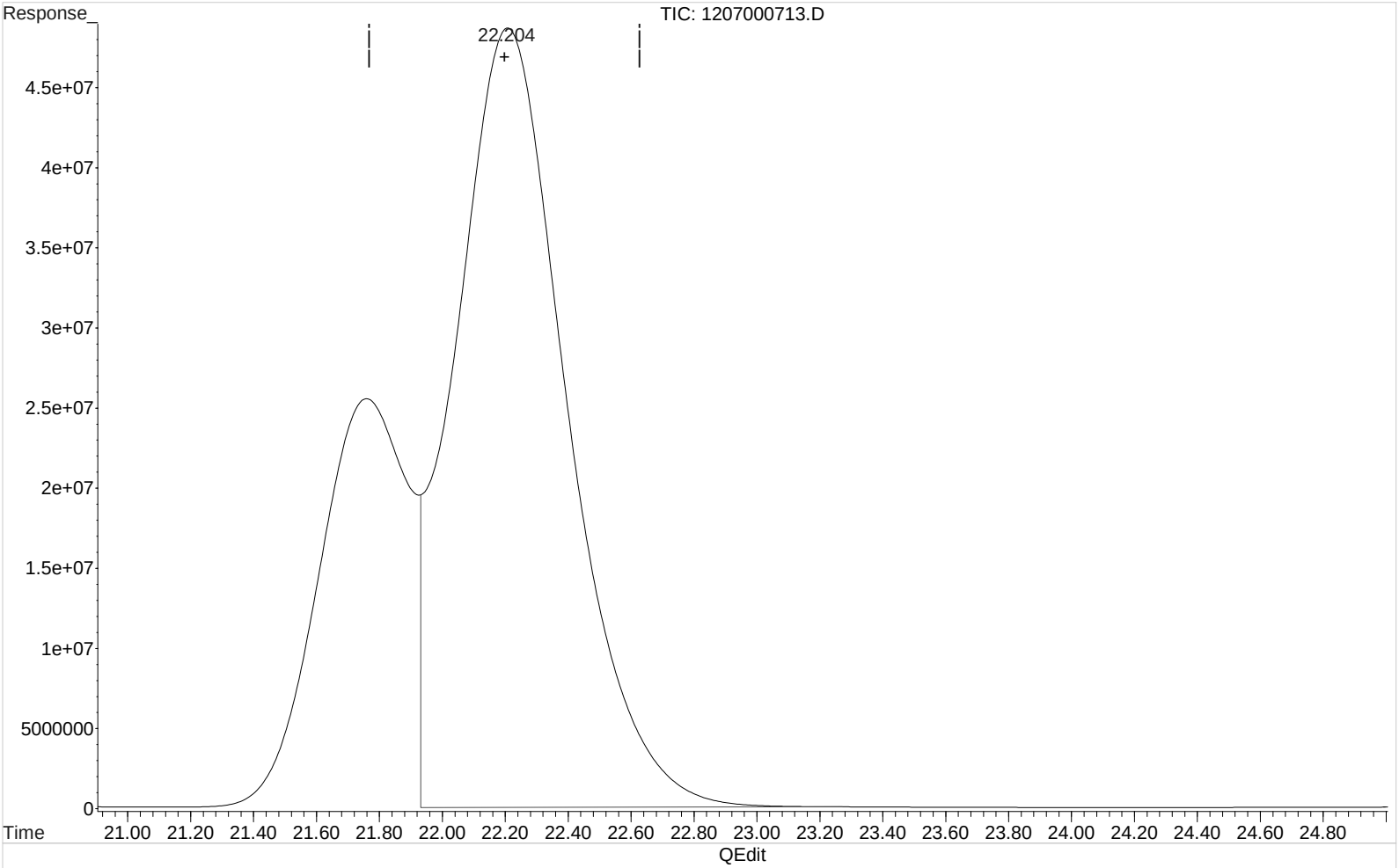
12/08/16

12/09/16

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:22:15 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(14) 2,4-DNT (T)

22.204min 20313.423 ug/L m

response 1201394842

Manual Integration:

After

BLC

12/08/16

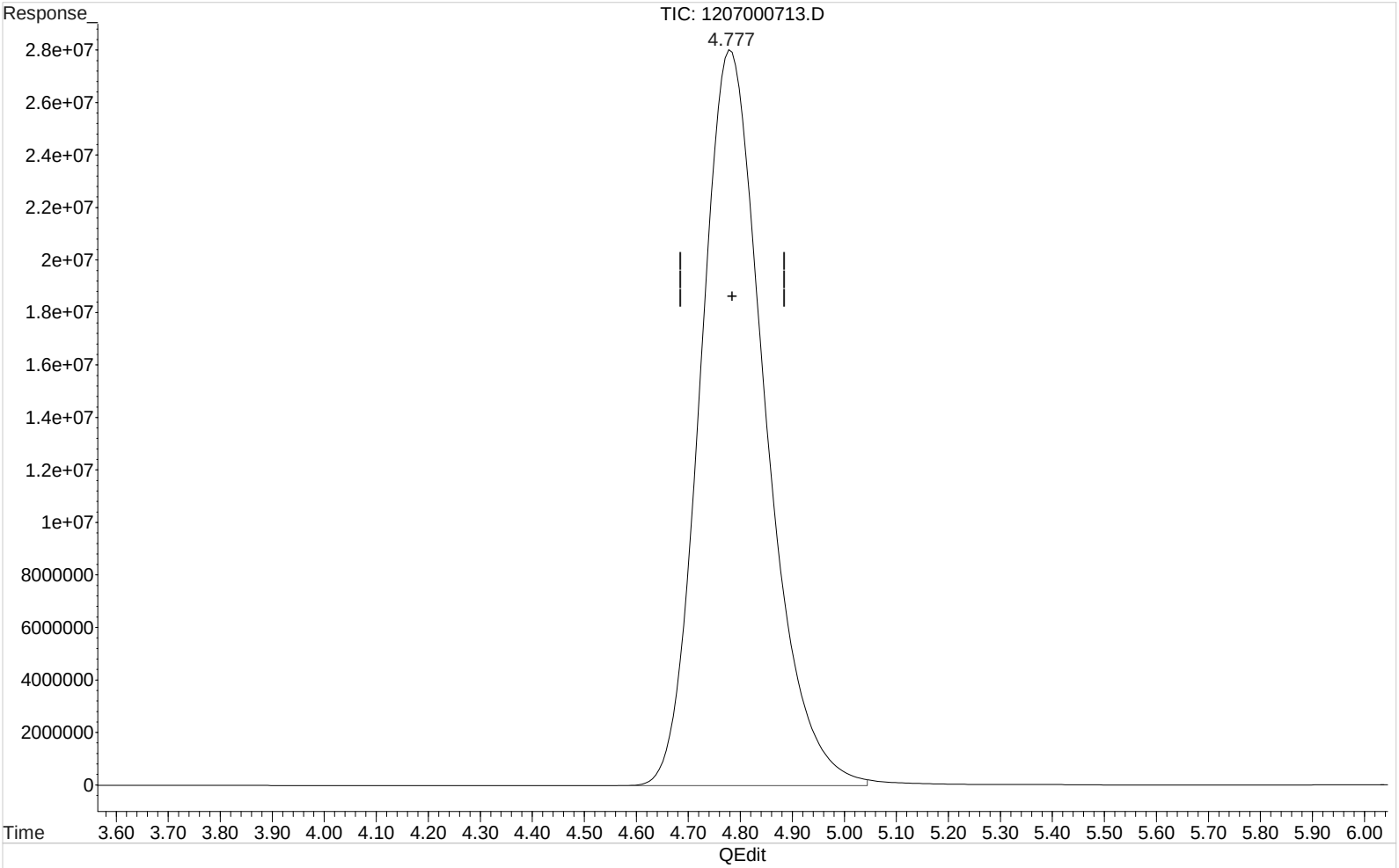
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:22:15 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



QEdit

(2) HMX (T)

4.777min 20269.811 ug/L

response 242453211

Manual Integration:

Before

12/08/16

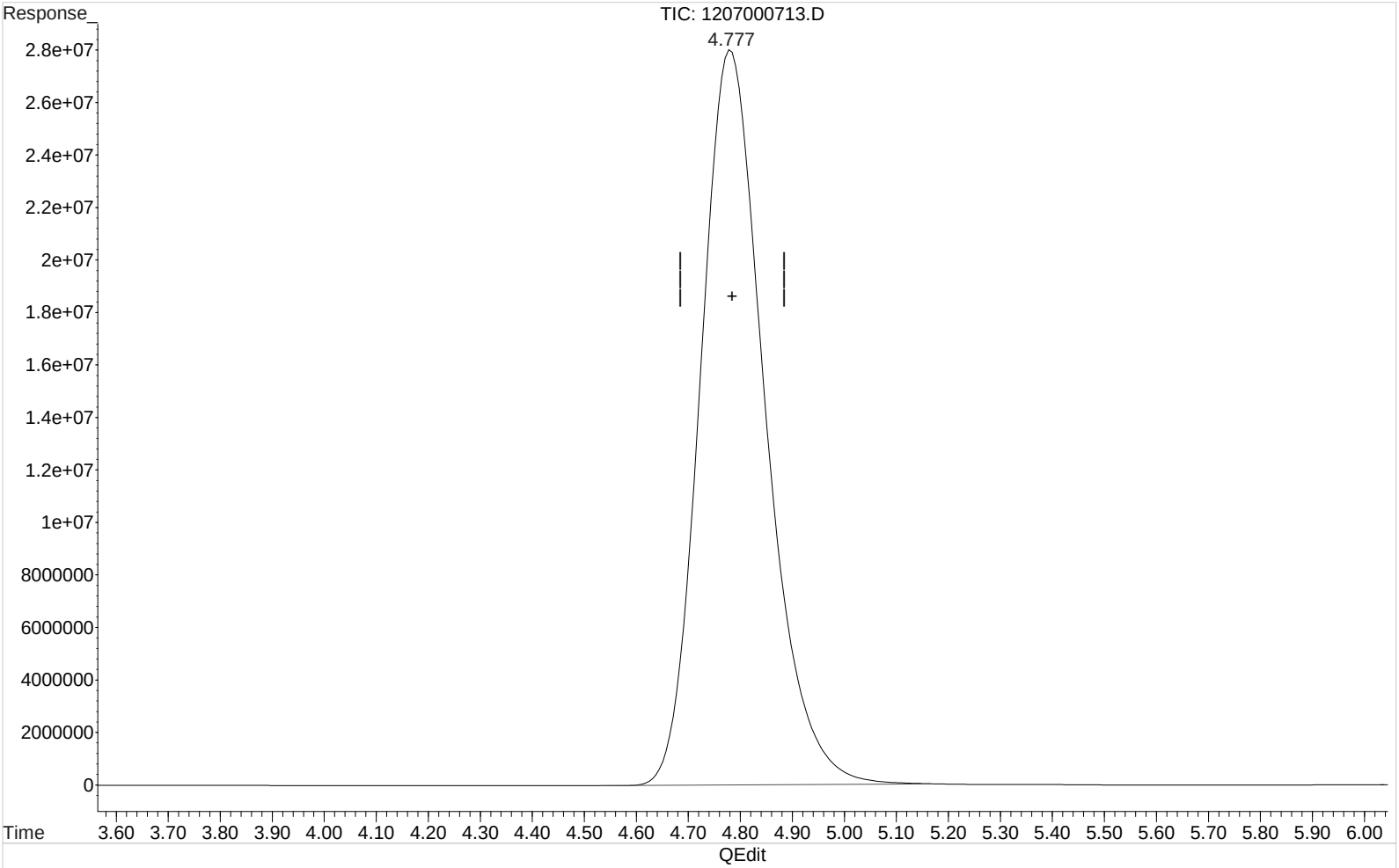
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : J:\LC10\Data\120716_8330B-254\1207000713.D Vial: 12
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 01:38:57 Operator: AE
Sample : ICAL 20000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 09:22:15 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 09:21:32 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



(2) HMX (T)

4.777min 20229.108 ug/L m

response 241966350

Manual Integration:

After

BLC

12/08/16

(+) = Expected Retention Time

(b) (6)

12/08/16

12/09/16

Quantitation Report (Not Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000715.D Vial: 13
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV ~~1000 PPB~~ 10,000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 13:49:43 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 13:47:31 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm

		Compound	R.T.	Response	Conc	Units
		System Monitoring Compounds				
18)	S	1-Chloro-3-Nitrobenzene	29.691	178340313	8252.990	ug/L
		Target Compounds				
1)	T	2,6-Diamino-4-nitroto...	0.000	0	N.D.	ug/L
2)	T	HMX	4.784	106984607	8933.998	ug/L
3)	T	2,4-Diamino-6-nitroto...	0.000	0	N.D.	ug/L
4)	T	RDX	8.371	176025842	8863.222	ug/L
5)	T	1,3,5-TNB	10.511	399499816	8944.120	ug/L
6)	T	1,3-DNB	13.851	535328425	8880.362	ug/L
7)	T	3,5-Dinitroaniline	14.958	428966341	8984.961	ug/L
8)	T	Tetryl	15.584	299167845	8957.215	ug/L
9)	T	Nitrobenzene	16.191	348449239	9023.839	ug/L
10)	T	2,4,6-TNT	17.438	377261904	9057.028	ug/L
11)	T	4-Amino-2,6-DNT	19.198	267038567	9047.901	ug/L
12)	T	2-Amino-4,6-DNT	20.017	374887145	8933.962	ug/L
13)	T	2,6-DNT	21.731	223573705	9139.357	ug/L
14)	T	2,4-DNT	22.184	532654960	8992.144	ug/L
15)	T	2-NT	25.311	161287053	8977.306	ug/L
16)	T	4-NT	26.231	141966427	8944.559	ug/L
17)	T	3-NT	27.364	176761245	8778.349	ug/L

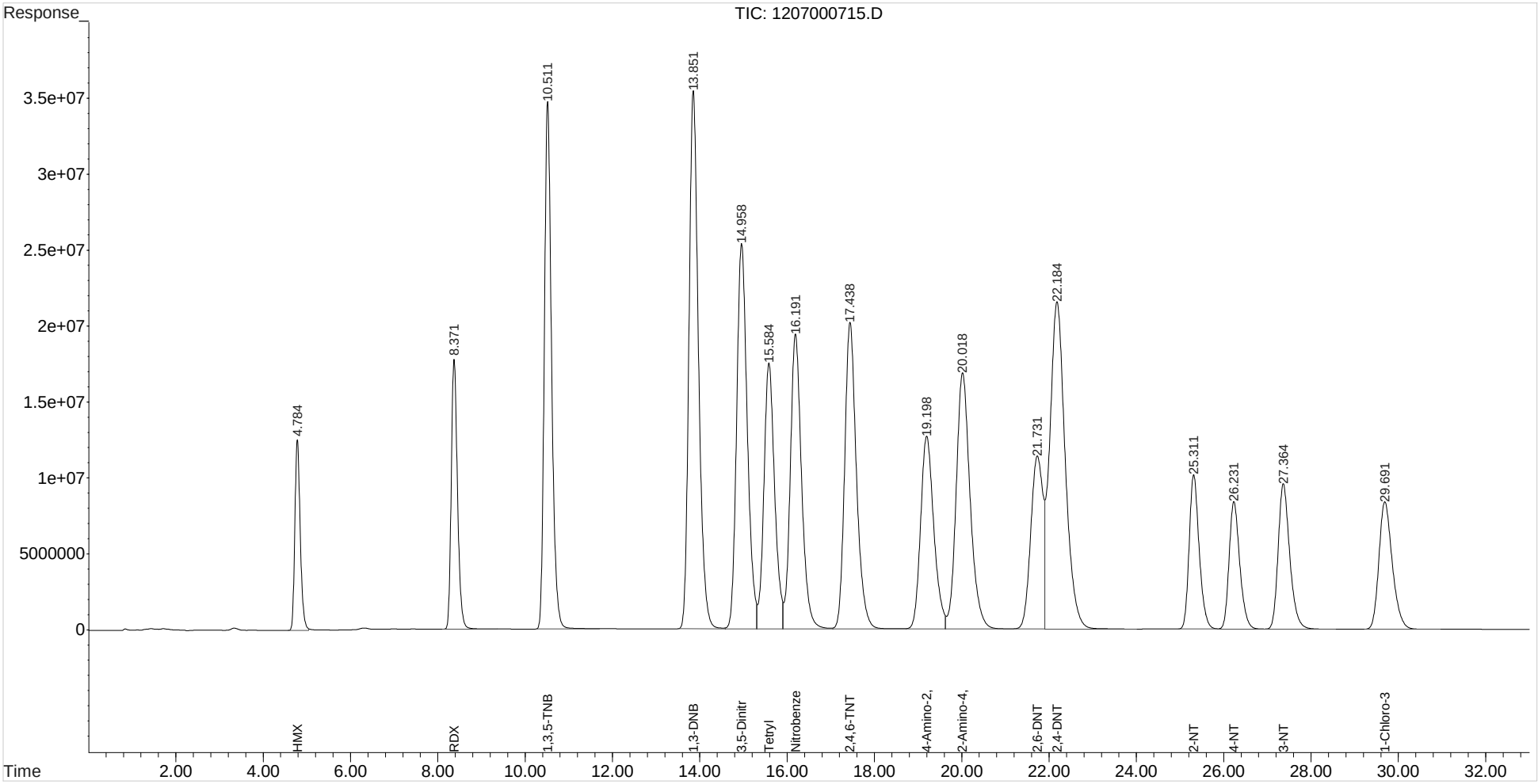
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data File : J:\LC10\Data\120716_8330B-254\1207000715.D Vial: 13
Signal(s) : DAD1A.ch
Acq On : 08-Dec-2016, 02:51:25 Operator: AE
Sample : ICV 1000 PPB Inst : GCI
Misc : Multiplr: 1.00
Integration File: RTEINT.P
Quant Time: Dec 08 13:49:43 2016
Quant Results File: 120716_8330B@254.RES

Quant Method : J:\LC10\Method\120716_8330B@254.M
Quant Title : CAL14816
QLast Update : Thu Dec 08 13:47:31 2016
Response via : Initial Calibration
DataAcq Meth:8330BX+DIAMINOS.M

Volume Inj. : 100uL
Signal Phase : Synergi Hydro RP 4.6 x 250 mm C18
Signal Info : C18 | DAD @ 254nm



Preparation Information

Group ID:	KWG1701217	**Prep Method:**	METHOD	**Prep Date:**	02/14/17 13:35
Department:	Organic LC				

Lab Code	Client ID	Product	Matrix	Amt. Ext.	Final Vol.
K1701351-016	EB-020717	8330B NitramAroEsters	WATER	1050ml	4ml
K1701351-017	EB-020817	8330B NitramAroEsters	WATER	1030ml	4ml
K1701351-018	EB-020917	8330B NitramAroEsters	WATER	1040ml	4ml
KWG1701217-1	Lab Control Sample	8330B NitramAroEsters	WATER	1000ml	4ml
KWG1701217-2	Duplicate Lab Control Sampl	8330B NitramAroEsters	WATER	1000ml	4ml
KWG1701217-3	Method Blank	8330B NitramAroEsters	WATER	1000ml	4ml

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
K1701351-016	1586619	16-OLC-02-14C	20uL			(b) (6) [redacted]
K1701351-017	1586620	16-OLC-02-14C	20uL			
K1701351-018	1586618	16-OLC-02-14C	20uL			
KWG1701217-1	1586621	16-OLC-02-14C	20uL	14-OLC-02-43M	8uL	
KWG1701217-2	1586622	16-OLC-02-14C	20uL	14-OLC-02-43M	8uL	
KWG1701217-3	1586623	16-OLC-02-14C	20uL			

Comments:

Started By: (b) (6) [redacted] Assisted By: [redacted] Training

Completed By: [redacted] Assisted By: [redacted] Yes / No

Reviewed By: Date: 2/27/17 Storage: [redacted] Yes / No

Chain of Custody

Relinquished By: (b) (6) [redacted] Date: 2.15.17

Received By: Date: 2.16.17 Extracts Examined Yes / No

Preparation Information

Group ID: KWG1701217 **Prep Method:** Method **Prep Date:** 2.14.17
Department: Organic LC

#	Lab Code	Client ID	B#	√	Product	Matrix	Amt. Ext. ml	pH	Int. Vol.	Final Vol.	Surr. Added	Spike Added
1	K1701351-016	EB-020717	.02	/	8330B NitramAroEst	WATER	1050	N/A	N/A	4 ml	20 ul	N/A
2	K1701351-017	EB-020817	.02	/	8330B NitramAroEst	WATER	1030	↓	↓	↓	↓	↓
3	K1701351-018	EB-020917	.02	/	8330B NitramAroEst	WATER	1040	↓	↓	↓	↓	=
4	KWG1701217-1	Lab Control Sample			8330B NitramAroEst	WATER	1000	↓	↓	↓	↓	8 ul
5	KWG1701217-2	Duplicate Lab Control Sample			8330B NitramAroEst	WATER	1000	↓	↓	↓	↓	↓
6	KWG1701217-3	Method Blank			8330B NitramAroEst	WATER	1000	↓	↓	↓	↓	N/A

Comments: prep # 281558

Surrogate ID: 16-DLC-02-14C, 1000ppm, xp 5.31.17, 20ul
Spike ID: 14-DLC02-43M, 1000ppm, xp 4.30.18, 8 ul
Witness: (b) (6) 02.14.17
Started By: (b) (6) Assisted By:
Completed By: Assisted By:

Additional Prep Information for Nitroaromatics and Nitramines by HPLC-SOP: SOC-8330B (rev. 5) in water

Service Request # K1701351 **Stealth Work Group #** KWG1701217

Lims Prep Run # 281558

Solvents/Reagents used:

ACN Lot #: 56207 **Acetone Lot #:** DP426

Hydrophobic DVB extraction cartridge Lot # 0000152839

Strata-X 33U 200mg/3mL cartridge Lot#: S300-0219

Initial SPE Start (Time/Date/Initial): 1335 2.14.17 (b) (6)

Initial SPE Stop (Time/Date/Initial): 1400 2.14.17

Second SPE Start (Time/Date/Initial): 1425 2.15.17

Second SPE Stop (Time/Date/Initial): 1515 2.15.1

Final Volume Start (Time/Date/Initial) 1520 2.15.

Final Volume Stop (Time/Date/Initial) 1535 2.15.1

Vial Storage: Top Shelf **Archived Extract Storage:** Nemophilist

Comments/Observations:

Bench Sheet Review Check List
❑ Hold Times Met (if no, Reason:)
❑ Stealth group and lims group concur
❑ Prep date, dept, method, product code correct in stealth
❑ Spike Information correct
❑ Weights/Volumes and units correct on raw and final bench sheets
❑ Sample IDs have been checked—Bottle numbers appended if required
❑ Names present for: Started by, Completed by, relinquished by, and witnessed by.
❑ Training has been circled
❑ Extract Storage recorded
❑ Additional Prep Sheet completely filled out (NA or line out Blanks)
❑ All clean-ups have been noted on additional prep sheet
❑ Signed service request with Form V, if applicable, has been attached

Preparation Information

Group ID:	KWG1701417	**Prep Method:**	METHOD	**Prep Date:**	02/21/17 17:05
Department:	Organic LC				

Lab Code	Client ID	Product	Matrix	Amt. Ext.	Final Vol.	Solids
K1701351-001	FD-020717	8330B Fire Range Nitr	SOIL	10.004g	8ml	
K1701351-002	FD-020817	8330B Fire Range Nitr	SOIL	10.015g	8ml	
K1701351-003	FTBL-SB-02-0-0.5-020817	8330B Fire Range Nitr	SOIL	10.078g	8ml	
K1701351-004	FTBL-SB-02-0.5-2-020817	8330B Fire Range Nitr	SOIL	10.291g	8ml	
K1701351-005	FTBL-SB-02-4-5.5-020817	8330B Fire Range Nitr	SOIL	10.120g	8ml	
K1701351-006	FTBL-SB-01D-0-0.5-020717	8330B Fire Range Nitr	SOIL	10.320g	8ml	
K1701351-007	FTBL-SB-01D-0.5-2-020717	8330B Fire Range Nitr	SOIL	10.212g	8ml	
K1701351-008	FTBL-SB-01D-4-6-020717	8330B Fire Range Nitr	SOIL	10.220g	8ml	
K1701351-009	FTBL-SB-01-0-0.5-020717	8330B Fire Range Nitr	SOIL	10.159g	8ml	
K1701351-010	FTBL-SB-01-0.5-2-020717	8330B Fire Range Nitr	SOIL	10.017g	8ml	
K1701351-011	FTBL-SB-01-4-6-020717	8330B Fire Range Nitr	SOIL	10.189g	8ml	
K1701351-012	FTBL-SB-03-0-0.5-020817	8330B Fire Range Nitr	SOIL	10.090g	8ml	
K1701351-013	FTBL-SB-03-6-8-020817	8330B Fire Range Nitr	SOIL	10.026g	8ml	
K1701351-015	FTBL-SB03-28-30-020917	8330B Fire Range Nitr	SOIL	10.048g	8ml	
KWG1701417-1	Duplicate	8330B Fire Range Nitr	SOIL	10.004g	8ml	
KWG1701417-2	Triplicate	8330B Fire Range Nitr	SOIL	10.047g	8ml	
KWG1701417-3	Matrix Spike	8330B Fire Range Nitr	SOIL	10.007g	8ml	
KWG1701417-4	Duplicate Matrix Spike	8330B Fire Range Nitr	SOIL	10.017g	8ml	
KWG1701417-5	Standard Reference Material	8330B Fire Range Nitr	SOIL	10.036g	8ml	
KWG1701417-6	Storage Blank	8330B Fire Range Nitr	SOIL	10.317g	8ml	
KWG1701417-7	Storage Blank	8330B Fire Range Nitr	SOIL	10.084g	8ml	
KWG1701417-8	Lab Control Sample	8330B Fire Range Nitr	SOIL	10.000g	8ml	
KWG1701417-9	Method Blank	8330B Fire Range Nitr	SOIL	10.000g	8ml	

Lab Code	Parent Lab Code	Comments
KWG1701417-1	K1701351-001	KQ1701866-01
KWG1701417-2	K1701351-001	KQ1701866-02
KWG1701417-3	K1701351-001	KQ1701866-03
KWG1701417-4	K1701351-001	KQ1701866-04
KWG1701417-5		KQ1701866-05
KWG1701417-6		KQ1701866-06
KWG1701417-7		KQ1701866-07

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
K1701351-001	1587763	16-OLC-02-14C	40uL			(b) (6)
K1701351-002	1587764	16-OLC-02-14C	40uL			

Comments:

Started By: (b) (6) Assisted By:

Completed By: Assisted By:

Reviewed By: Date: 3/28/17 Storage:

Training: Yes / No; Yes / No

Chain of Custody

Relinquished By: (b) (6) Date: 3-1-2017

Received By: Date: 3-1-2017

Extracts Examined: Yes / No

Group ID:	KWG1701417	**Prep Method:**	METHOD	**Prep Date:**	02/21/17 17:05
Department:	Organic LC				

Lab Code	Prep Event ID	Surrogate Solution ID	Amount Added	Spike Solution ID	Amount Added	Witness
K1701351-003	1587765	16-OLC-02-14C	40uL			(b) (6)
K1701351-004	1587766	16-OLC-02-14C	40uL			
K1701351-005	1587767	16-OLC-02-14C	40uL			
K1701351-006	1587768	16-OLC-02-14C	40uL			
K1701351-007	1587769	16-OLC-02-14C	40uL			
K1701351-008	1587770	16-OLC-02-14C	40uL			
K1701351-009	1587771	16-OLC-02-14C	40uL			
K1701351-010	1587772	16-OLC-02-14C	40uL			
K1701351-011	1587773	16-OLC-02-14C	40uL			
K1701351-012	1587774	16-OLC-02-14C	40uL			
K1701351-013	1587775	16-OLC-02-14C	40uL			
K1701351-015	1587776	16-OLC-02-14C	40uL			
KWG1701417-1	1587777	16-OLC-02-14C	40uL			
KWG1701417-2	1587778	16-OLC-02-14C	40uL			
KWG1701417-3	1587779	16-OLC-02-14C	40uL	14-OLC-02-43M	20uL	
KWG1701417-4	1587780	16-OLC-02-14C	40uL	14-OLC-02-43M	20uL	
KWG1701417-5	1587781	16-OLC-02-14C	40uL			
KWG1701417-6	1587782	16-OLC-02-14C	40uL			
KWG1701417-7	1587783	16-OLC-02-14C	40uL			
KWG1701417-8	1587784	16-OLC-02-14C	40uL	14-OLC-02-43M	20uL	
KWG1701417-9	1587785	16-OLC-02-14C	40uL			

Comments:

Started By: (b) (6)

Assisted By:

Completed By:

Assisted By:

Reviewed By:

Date: 3/6/17

Storage:

Training

Yes No

Yes No

Chain of Custody

Relinquished By: (b) (6)

Date: 3.1.2017

Received By:

Date: 3.1.2017

Extracts Examined

Yes No

Preparation Information

Group ID: KWG1701417
Department: Organic LC
Prep Method: EPA 3535A
Prep Date: 02/21/17

#	Lab Code	Client ID	B#	√	Product	Matrix	Amt. Ext. g	pH	Int. Vol.	Final Vol. mL	Surr. Added µL	Spike Added µL
1	K1701351-001	FD-020717			8330B Fire Range Nitr	SOIL	see pre-prep	n/a	n/a	8	40	
2	K1701351-002	FD-020817			8330B Fire Range Nitr	SOIL						
3	K1701351-003	FTBL-SB-02-0-0.5-020817			8330B Fire Range Nitr	SOIL						
4	K1701351-004	FTBL-SB-02-0.5-2-020817			8330B Fire Range Nitr	SOIL						
5	K1701351-005	FTBL-SB-02-4-5.5-020817			8330B Fire Range Nitr	SOIL						
6	K1701351-006	FTBL-SB-01D-0-0.5-020717			8330B Fire Range Nitr	SOIL						
7	K1701351-007	FTBL-SB-01D-0.5-2-020717			8330B Fire Range Nitr	SOIL						
8	K1701351-008	FTBL-SB-01D-4-6-020717			8330B Fire Range Nitr	SOIL						
9	K1701351-009	FTBL-SB-01-0-0.5-020717			8330B Fire Range Nitr	SOIL						
10	K1701351-010	FTBL-SB-01-0.5-2-020717			8330B Fire Range Nitr	SOIL						
11	K1701351-011	FTBL-SB-01-4-6-020717			8330B Fire Range Nitr	SOIL						
12	K1701351-012	FTBL-SB-03-0-0.5-020817			8330B Fire Range Nitr	SOIL						
13	K1701351-013	FTBL-SB-03-6-8-020817			8330B Fire Range Nitr	SOIL						
14	K1701351-015	FTBL-SB03-28-30-020917			8330B Fire Range Nitr	SOIL						
15	KWG1701417-1	Duplicate K1701351-001			8330B Fire Range Nitr	SOIL						
16	KWG1701417-2	Triplicate K1701351-001			8330B Fire Range Nitr	SOIL						
17	KWG1701417-3	Matrix Spike K1701351-001			8330B Fire Range Nitr	SOIL						20
18	KWG1701417-4	Duplicate Matrix Spike K1701351-001			8330B Fire Range Nitr	SOIL						20

Comments:

Surrogate ID: 16-OLC-02-14C 1000 ppm xp 5-31-17
Spike ID: 14-OLC-02-43M 1000 ppm xp 04-31-18
Witness: (b) (6) 2/21/17
Started By: (b) (6)
Completed By:
Assisted By: (b) (6)
Assisted By:

Group ID:	KWG1701417	**Prep Method:**	**Prep Date:**
Department:	Organic LC	EPA 3535A	02/21/17

#	Lab Code	Client ID	B#	√	Product	Matrix	Amt. Ext. g	pH	Int. Vol.	Final Vol. mL	Surr. Added mL	Spike Added mL
19	KWG1701417-5	Standard Reference Material	—		8330B Fire Range Nitr	SOIL	see pre-prep	N/a	N/a	8	40	—
20	KWG1701417-6	Storage Blank GB1	—		8330B Fire Range Nitr	SOIL	↓	↓	↓	↓	↓	—
21	KWG1701417-7	Storage Blank GB2	—		8330B Fire Range Nitr	SOIL	↓	↓	↓	↓	↓	—
22	KWG1701417-8	Lab Control Sample	—		8330B Fire Range Nitr	SOIL	↓	↓	↓	↓	↓	20
23	KWG1701417-9	Method Blank	—		8330B Fire Range Nitr	SOIL	↓	↓	↓	↓	↓	—

Comments:

Surrogate ID: 16-OLC-02-14C 1000 ppm XP 05.31.17

Spike ID: 14-OLC-02-43M 1000 ppm XP 04.31.18

Witness: (b) (6) /17

Started By: (b) (6) Assisted By:

Completed By: Assisted By:

Additional Prep Information For Nitroaromatics and Nitramines by HPLC – SOP: SOC-8330B (rev. 4) in Soil

Service Request # K1701351 **Stealth Work Group #** KWG1701417

Lims Run # 282053

Solvents/Reagents used:

0.1% Glacial Acetic Acid/ACN Lot# 17-OLC-01-03L

ACN Lot# 56207 **Reagent Water Lot#** 56160

Balance ID#: -49, -50

Sonic Bath Start (Time/Date/Initial): 17:05 02/21/17 [redacted]

Sonic Bath Stop (Time/Date/Initial): 12:30 02/22/17 [redacted]

Strata-X 33U 200mg/3mL cartridge Lot# S300-0219

Extraction Start (Time/Date/Initial): 1040 3.1.17 (b) (6) [redacted]

Extraction Stop (Time/Date/Initial): 1430 3/1/17 [redacted]

Final Volume Start (Time/Date/Initial): 1430 3/1/17 [redacted]

Final Volume Stop (Time/Date/Initial): 1525 3/1/17 [redacted]

Completion (Time/Date/Initial) 1525 3/1/17 [redacted] **Vial Storage:** TOP SHELF

Archived Extract Storage: LIME JELLO

Comments/Observations:

Bench Sheet Review Check List
❑ Hold Times Met (if no, Reason:)
❑ Stealth group and lims group concur
❑ Prep date, dept, method, product code correct in stealth
❑ Spike Information correct
❑ Weights/Volumes and units correct on raw and final bench sheets
❑ Sample IDs have been checked—Bottle numbers appended if required
❑ Names present for: Started by, Completed by, relinquished by, and witnessed by.
❑ Training has been circled
❑ Extract Storage recorded
❑ Additional Prep Sheet completely filled out (NA or line out Blanks)
❑ All clean-ups have been noted on additional prep sheet
❑ Signed service request with Form V, if applicable, has been attached

Pre-Prep Information Benchsheet

Prep Run #: 282053 **Prep Method:** **Team:** **Prep Due Date:** Feb-21-2017

#	Lab Code	Bottle	Test Name	Weight	Sample Comments	Test Comments
1	K1701351-001	.03	Fire Range Nitr	10.004g		PrepComments:APOSEY K-BALANCE-49
2	K1701351-002	.03	Fire Range Nitr	10.015g		PrepComments:DMadden K-Balance-50
3	K1701351-003	.03	Fire Range Nitr	10.078g		PrepComments:DMadden K-Balance-50
4	K1701351-004	.04	Fire Range Nitr	10.291g		PrepComments:DMadden K-Balance-50
5	K1701351-005	.04	Fire Range Nitr	10.120g		PrepComments:DMadden K-Balance-50
6	K1701351-006	.04	Fire Range Nitr	10.320g		PrepComments:DMadden K-Balance-50
7	K1701351-007	.04	Fire Range Nitr	10.212g		PrepComments:DMadden K-Balance-50
8	K1701351-008	.04	Fire Range Nitr	10.220g		PrepComments:DMadden K-Balance-50
9	K1701351-009	.04	Fire Range Nitr	10.159g		PrepComments:DMadden K-Balance-50
10	K1701351-010	.04	Fire Range Nitr	10.017g		PrepComments:DMadden K-Balance-50
11	K1701351-011	.04	Fire Range Nitr	10.189g		PrepComments:DMadden K-Balance-50
12	K1701351-012	.05	Fire Range Nitr	10.090g		PrepComments:DMadden K-Balance-50
13	K1701351-013	.05	Fire Range Nitr	10.026g		PrepComments:DMadden K-Balance-50
14	K1701351-015	.07	Fire Range Nitr	10.048g		PrepComments:DMadden K-Balance-50
15	K1701351-001 DUP KQ1701866-01	.03	Fire Range Nitr	10.004g		PrepComments:APOSEY K-BALANCE-49
16	K1701351-001 TRP KQ1701866-02	.03	Fire Range Nitr	10.047g		PrepComments:APOSEY K-BALANCE-49
17	K1701351-001 MS KQ1701866-03	.03	Fire Range Nitr	10.007g		PrepComments:APOSEY K-BALANCE-49
18	K1701351-001 DMS KQ1701866-04	.03	Fire Range Nitr	10.017g		PrepComments:APOSEY K-BALANCE-49
19	KQ1701866-05 SRM KQ1701866-05	.01	Fire Range Nitr	10.036	17-OLC-01-13C xp 2.28.17	
20	KQ1701866-06 MB KQ1701866-06	.01	Fire Range Nitr	10.317	Samples 1-10	
21	KQ1701866-07 MB KQ1701866-07	.02	Fire Range Nitr	10.084	11-13, 15	

*% Solids is a calculated field meant solely as a reference value for verifying the presence of Total Solids in calculations

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Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/ Electrospray/Mass Spectrometry

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Project	CAS Methods\Oxyanions
Data File	022217-6850\0021.wiff
Result Table	022217-6850.rdb
Instrument Name	LCMS03

Sample Name	K1701351-012	Injection Volume	50
Acquisition Date	2/22/2017 2:56:09 AM	Sample Type	Unknown
Acquisition Method	oxyanion_MeOH_Isocratic.dam	Dilution Factor	1.00
Injection Vial	17	Weight to Volume	0.00

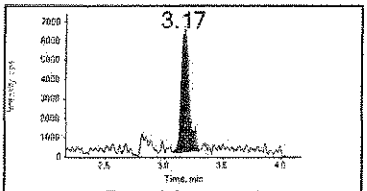
Results Summary

Analyte Name	IS Name	IS Area	Analyte RT (Exp RT)	Analyte Area	Calc. Conc (ng/mL)	Modified?
Perchlorate 1	Perchlorate_18O	19172000	3.17 (3.16)	32176	0.01	No

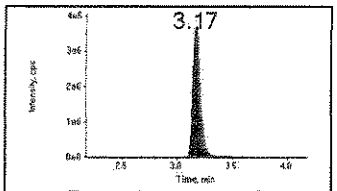
IRC Summary

Analyte Peak Name	RT (Exp RT)	Area	Modified?	Calc (Exp) MRM Ratio	Ratio Confirms ID
Perchlorate 2	3.18 (3.17)	21317	No	0.66 (0.36)	No

Quantitative Peak Review K1701351-012



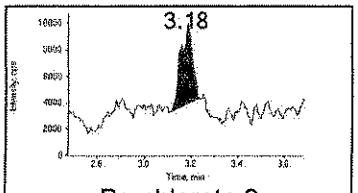
Perchlorate 1
99.000/83.000 Da
□ Baseline □ Missed
□ Wrong Peak



Perchlorate_18O
107.000/89.000 Da
□ Baseline □ Missed
□ Wrong Peak

2/24/17

Ion Ratio Confirmation



Perchlorate 2
Mod? No
□ Baseline □ Missed
□ Wrong Peak

Project	CAS Methods\Oxyanions
Data File	022217-6850\0024.wiff
Result Table	022217-6850.rdb
Instrument Name	LCMS03

Sample Name	K1701351-013	Injection Volume	50
Acquisition Date	2/22/2017 3:11:14 AM	Sample Type	Unknown
Acquisition Method	oxyanion_MeOH_Isocratic.dam	Dilution Factor	1.00
Injection Vial	20	Weight to Volume	0.00

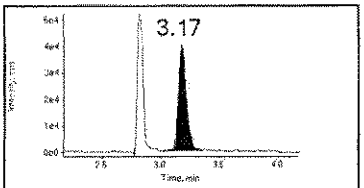
Results Summary

Analyte Name	IS Name	IS Area	Analyte RT (Exp RT)	Analyte Area	Calc. Conc (ng/mL)	Modified?
Perchlorate 1	Perchlorate_18O	17610000	3.17 (3.17)	206480	0.05	No

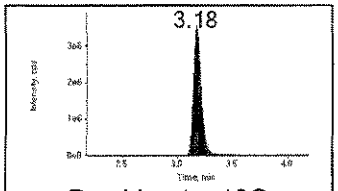
IRC Summary

Analyte Peak Name	RT (Exp RT)	Area	Modified?	Calc (Exp) MRM Ratio	Ratio Confirms ID
Perchlorate 2	3.17 (3.18)	80339	No	0.39 (0.36)	YES

Quantitative Peak Review K1701351-013



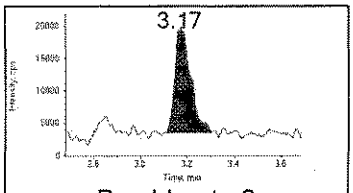
Perchlorate 1
99.000/83.000 Da
□ Baseline □ Missed
□ Wrong Peak



Perchlorate_18O
107.000/89.000 Da
□ Baseline □ Missed
□ Wrong Peak

2/24/17

Ion Ratio Confirmation



Perchlorate 2
Mod? No
□ Baseline □ Missed
□ Wrong Peak

Project	CAS Methods\Oxyanions
Data File	022217-6850\0017.wiff
Result Table	022217-6850.rdb
Instrument Name	LCMS03

Sample Name	KQ1701598-07 MB	**Injection Volume**	50
Acquisition Date	2/22/2017 2:36:13 AM	**Sample Type**	Unknown
Acquisition Method	oxyanion_MeOH_Isocratic.dam	**Dilution Factor**	1.00
Injection Vial	13	**Weight to Volume**	0.00

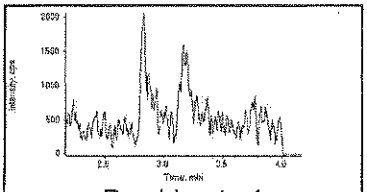
Results Summary

Analyte Name	IS Name	IS Area	Analyte RT (Exp RT)	Analyte Area	Calc. Conc (ng/mL)	Modified?
Perchlorate 1	Perchlorate_18O	18232000	0.00 (3.17)	0	N/A	No

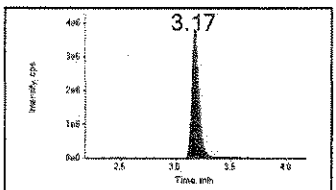
IRC Summary

Analyte Peak Name	RT (Exp RT)	Area	Modified?	Calc (Exp) MRM Ratio	Ratio Confirms ID
Perchlorate 2	3.19 (3.17)	14659	No	0.00 (0.36)	No

Quantitative Peak Review KQ1701598-07 MB



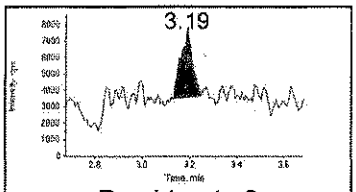
Perchlorate 1
99.000/83.000 Da
□ Baseline □ Missed
□ Wrong Peak



Perchlorate_18O
107.000/89.000 Da
□ Baseline □ Missed
□ Wrong Peak

2/24/17

Ion Ratio Confirmation



Perchlorate 2
Mod? No
□ Baseline □ Missed
□ Wrong Peak

Project	CAS Methods\Oxyanions
Data File	022217-6850\0022.wiff
Result Table	022217-6850.rdb
Instrument Name	LCMS03

Sample Name	KQ1701598-01 MS	**Injection Volume**	50
Acquisition Date	2/22/2017 3:01:11 AM	**Sample Type**	Unknown
Acquisition Method	oxyanion_MeOH_Isocratic.dam	**Dilution Factor**	1.00
Injection Vial	18	**Weight to Volume**	0.00

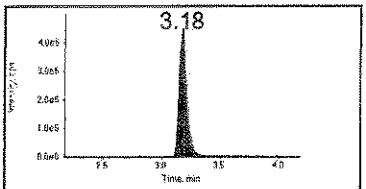
Results Summary

Analyte Name	IS Name	IS Area	Analyte RT (Exp RT)	Analyte Area	Calc. Conc (ng/mL)	Modified?
Perchlorate 1	Perchlorate_18O	18558000	3.18 (3.17)	2192000	0.52	No

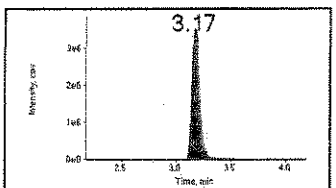
IRC Summary

Analyte Peak Name	RT (Exp RT)	Area	Modified?	Calc (Exp) MRM Ratio	Ratio Confirms ID
Perchlorate 2	3.18 (3.17)	757480	No	0.35 (0.36)	YES

Quantitative Peak Review KQ1701598-01 K1701351-012MS



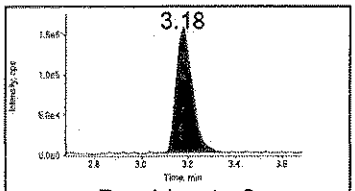
Perchlorate 1
99.000/83.000 Da
□ Baseline □ Missed
□ Wrong Peak



Perchlorate_18O
107.000/89.000 Da
□ Baseline □ Missed
□ Wrong Peak

MH 2/24/17

Ion Ratio Confirmation



Perchlorate 2
Mod? No
□ Baseline □ Missed
□ Wrong Peak

Project	CAS Methods\Oxyanions
Data File	022217-6850\0023.wiff
Result Table	022217-6850.rdb
Instrument Name	LCMS03

Sample Name	KQ1701598-02 DMS	**Injection Volume**	50
Acquisition Date	2/22/2017 3:06:11 AM	**Sample Type**	Unknown
Acquisition Method	oxyanion_MeOH_Isocratic.dam	**Dilution Factor**	1.00
Injection Vial	19	**Weight to Volume**	0.00

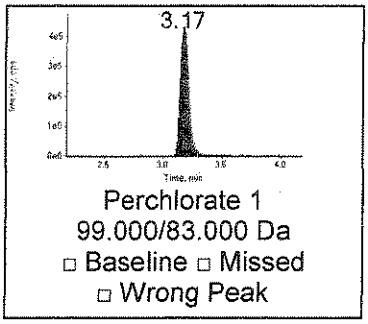
Results Summary

Analyte Name	IS Name	IS Area	Analyte RT (Exp RT)	Analyte Area	Calc. Conc (ng/mL)	Modified?
Perchlorate 1	Perchlorate_18O	17931000	3.17 (3.17)	2236400	0.55	No

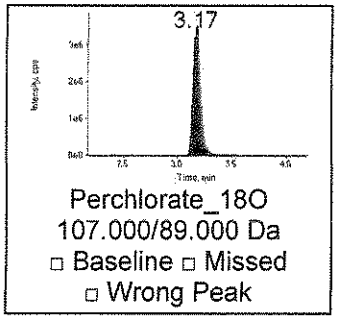
IRC Summary

Analyte Peak Name	RT (Exp RT)	Area	Modified?	Calc (Exp) MRM Ratio	Ratio Confirms ID
Perchlorate 2	3.17 (3.17)	772330	No	0.35 (0.36)	YES

Quantitative Peak Review KQ1701598-02 K1701351-012DMS



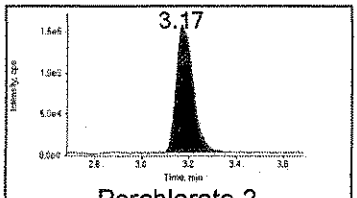
Perchlorate 1
99.000/83.000 Da
□ Baseline □ Missed
□ Wrong Peak



Perchlorate_18O
107.000/89.000 Da
□ Baseline □ Missed
□ Wrong Peak

MM 2/24/17

Ion Ratio Confirmation



Perchlorate 2
Mod? No
□ Baseline □ Missed
□ Wrong Peak

Project	CAS Methods\Oxyanions	**Result Table**	022217-6850.rdb
Data File	022217-6850\0015.wiff	**Algorithm Used**	MQL
Acquisition Method	oxyanion_MeOH_Isocratic.dam	**Instrument Name**	LCMS03

Sample Name	KQ1701598-05	**Injection Vial**	11
Acquisition Date	2/22/2017 2:26:10 AM	**Injection Volume**	50
Acquisition Method	oxyanion_MeOH_Isocratic.dam	**Sample Type**	Quality Control
Sample ID	ICS	**Dilution Factor**	1.00
Sample Comment		**Weight to Volume**	0.00

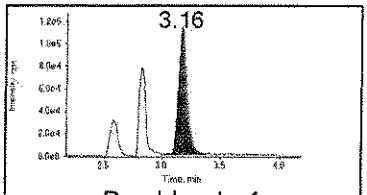
Results Summary

Analyte Name	Analyte RT (Expected)	IS Name	IS Area	Analyte Area	Exp Conc (ng/mL)	Calc. Conc (ng/mL)	Accuracy (%)	Mod?
Perchlorate 1	3.16 (3.16)	Perchlorate_18O	4880800*	602700	0.50	0.54	109	No

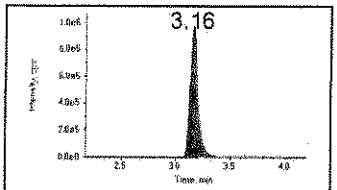
IRC Summary

Analyte Peak Name	RT (Exp RT)	Area	Modified?	Ratio Confirms ID
Perchlorate 2	3.17 (3.16)	191880	No	YES

Quantitative Peak Review — KQ1701598-05 ICS



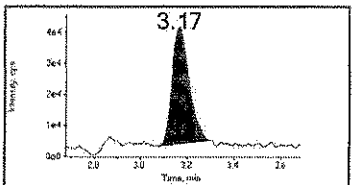
Perchlorate 1
99.000/83.000 Da
□ Baseline □ Missed
□ Wrong Peak



Perchlorate_18O
107.000/89.000 Da
□ Baseline □ Missed
□ Wrong Peak

2/24/17

Ion Ratio Confirmation



Perchlorate 2
Mod? No
□ Baseline □ Missed
□ Wrong Peak

* IS response fails low. Re-analysis of batch confirms. Spike recovery OK. Data quality of batch not affected.

Project	CAS Methods\Oxyanions	**Result Table**	022217-6850.rdb
Data File	022217-6850\0016.wiff	**Algorithm Used**	MQL
Acquisition Method	oxyanion_MeOH_Isocratic.dam	**Instrument Name**	LCMS03

Sample Name	KQ1701598-06	**Injection Vial**	12
Acquisition Date	2/22/2017 2:31:09 AM	**Injection Volume**	50
Acquisition Method	oxyanion_MeOH_Isocratic.dam	**Sample Type**	Quality Control
Sample ID	LCS	**Dilution Factor**	1.00
Sample Comment		**Weight to Volume**	0.00

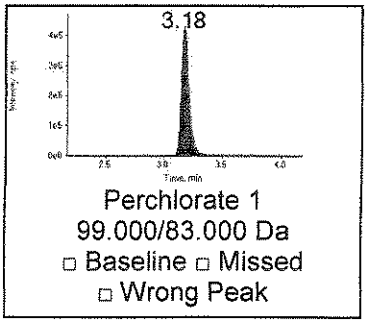
Results Summary

Analyte Name	Analyte RT (Expected)	IS Name	IS Area	Analyte Area	Exp Conc (ng/mL)	Calc. Conc (ng/mL)	Accuracy (%)	Mod?
Perchlorate 1	3.18 (3.18)	Perchlorate_ 18O	1721300 0	2083000	0.50	0.53	107	No

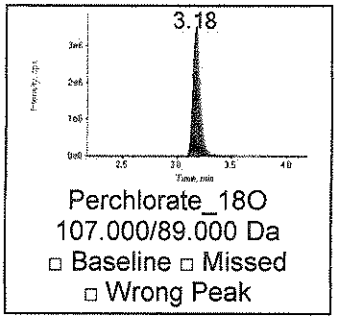
IRC Summary

Analyte Peak Name	RT (Exp RT)	Area	Modified?	Ratio Confirms ID
Perchlorate 2	3.18 (3.18)	716820	No	YES

Quantitative Peak Review KQ1701598-06 LCS



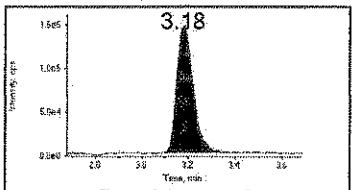
Perchlorate 1
99.000/83.000 Da
□ Baseline □ Missed
□ Wrong Peak



Perchlorate_18O
107.000/89.000 Da
□ Baseline □ Missed
□ Wrong Peak

3/24/17

Ion Ratio Confirmation



Perchlorate 2
Mod? No
□ Baseline □ Missed
□ Wrong Peak

Date: 02/22/17

ICAL Date: 02/22/17
Cal. Std. xp: 02/26/17

1st Review: JMS
2nd Review: 2/24/17

Injection Log
LCMS03 - AB Sciex 5500

ICAL ID: KC1700014
LIMS ID: 535536

Column: Synergi 4u MAX-RP 80A 250x4.6mm s/n 628625-20

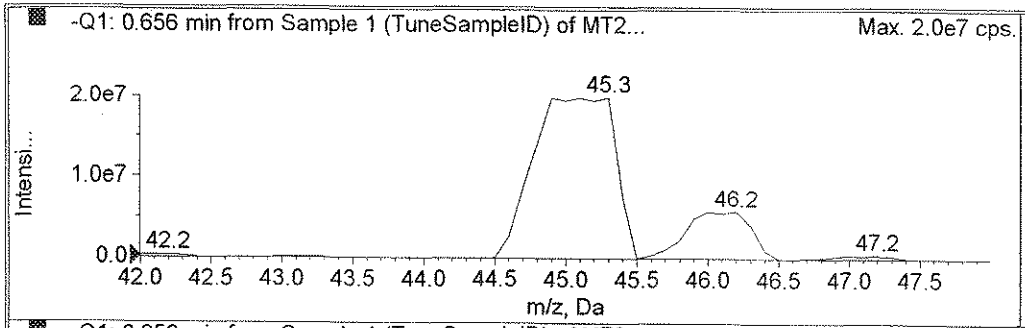
Mobile Phases A: 0.75% Formic Acid in H2O 16-OLC-02-49K B: Methanol Lot 56217

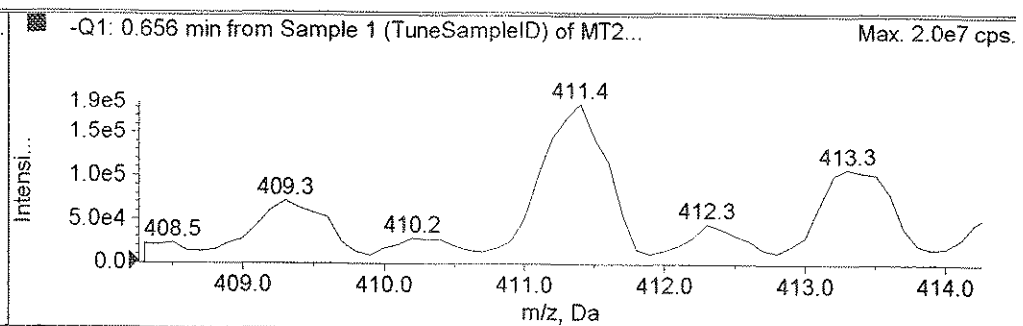
Project Folder: CAS Methods\Oxyanions

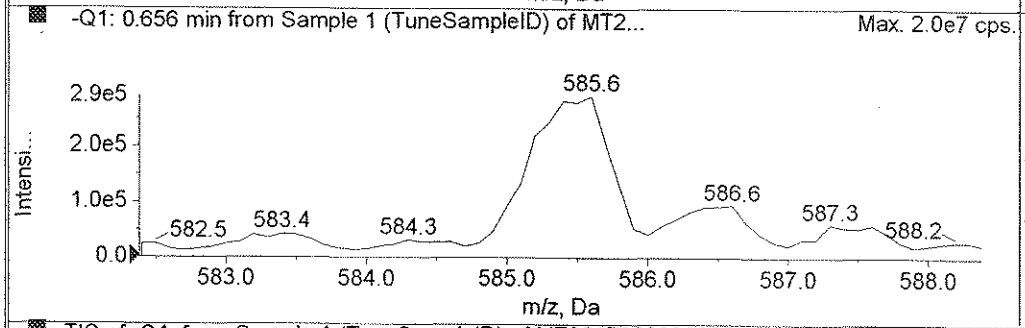
	Sample Name		File Name	Acquisition Method	Dilution	R	Comments
1	6850 IB	16-OLC-02-50N	022217-6850\0001.wif	oxyanion_MeOH_Isocratic.d	1	✓	
2	6850 CAL 0.10ppb	16-OLC-02-50C	022217-6850\0002.wif	oxyanion_MeOH_Isocratic.d	1	✓	
3	6850 CAL 0.50ppb	16-OLC-02-50D	022217-6850\0003.wif	oxyanion_MeOH_Isocratic.d	1	✓	
4	6850 CAL 0.70ppb	16-OLC-02-50E	022217-6850\0004.wif	oxyanion_MeOH_Isocratic.d	1	✓	
5	6850 CAL 1.0ppb	16-OLC-02-50F	022217-6850\0005.wif	oxyanion_MeOH_Isocratic.d	1	✓	
6	6850 CAL 2.0ppb	16-OLC-02-50G	022217-6850\0006.wif	oxyanion_MeOH_Isocratic.d	1	✓	
7	6850 CAL 5.0ppb	16-OLC-02-50H	022217-6850\0007.wif	oxyanion_MeOH_Isocratic.d	1	✓	
8	6850 CAL 10ppb	16-OLC-02-50I	022217-6850\0008.wif	oxyanion_MeOH_Isocratic.d	1	✓	
9	6850 CAL 20ppb	16-OLC-02-50J	022217-6850\0009.wif	oxyanion_MeOH_Isocratic.d	1	✓	
10	6850 CAL 30ppb	16-OLC-02-50K	022217-6850\0010.wif	oxyanion_MeOH_Isocratic.d	1	✓	
11	6850 CAL 50ppb	16-OLC-02-50L	022217-6850\0011.wif	oxyanion_MeOH_Isocratic.d	1		Not used for calibration
12	6850 IB	16-OLC-02-50N	022217-6850\0012.wif	oxyanion_MeOH_Isocratic.d	1	✓	
13	6850 ICV 10ppb	16-OLC-02-50M	022217-6850\0013.wif	oxyanion_MeOH_Isocratic.d	1	✓	
14	6850 IB	16-OLC-02-50N	022217-6850\0014.wif	oxyanion_MeOH_Isocratic.d	1	✓	
15	KQ1701598-05	ICS	022217-6850\0015.wif	oxyanion_MeOH_Isocratic.d	1	✓	IS fails low, perchlorate recovery OK
16	KQ1701598-06	LCS	022217-6850\0016.wif	oxyanion_MeOH_Isocratic.d	1	✓	
17	KQ1701598-07	MB	022217-6850\0017.wif	oxyanion_MeOH_Isocratic.d	1	✓	
18	K1700744-001		022217-6850\0018.wif	oxyanion_MeOH_Isocratic.d	1	✓	
19	KQ1701598-03	K1700744-001MS	022217-6850\0019.wif	oxyanion_MeOH_Isocratic.d	1	✓	
20	KQ1701598-04	K1700744-001DMS	022217-6850\0020.wif	oxyanion_MeOH_Isocratic.d	1	✓	
21	K1701351-012		022217-6850\0021.wif	oxyanion_MeOH_Isocratic.d	1	✓	
22	KQ1701598-01	K1701351-012MS	022217-6850\0022.wif	oxyanion_MeOH_Isocratic.d	1	✓	
23	KQ1701598-02	K1701351-012DMS	022217-6850\0023.wif	oxyanion_MeOH_Isocratic.d	1	✓	
24	K1701351-013		022217-6850\0024.wif	oxyanion_MeOH_Isocratic.d	1	✓	
25	6850 CCV 10ppb	16-OLC-02-50I	022217-6850\0025.wif	oxyanion_MeOH_Isocratic.d	1	✓	
26	6850 IB	16-OLC-02-50N	022217-6850\0026.wif	oxyanion_MeOH_Isocratic.d	1	✓	

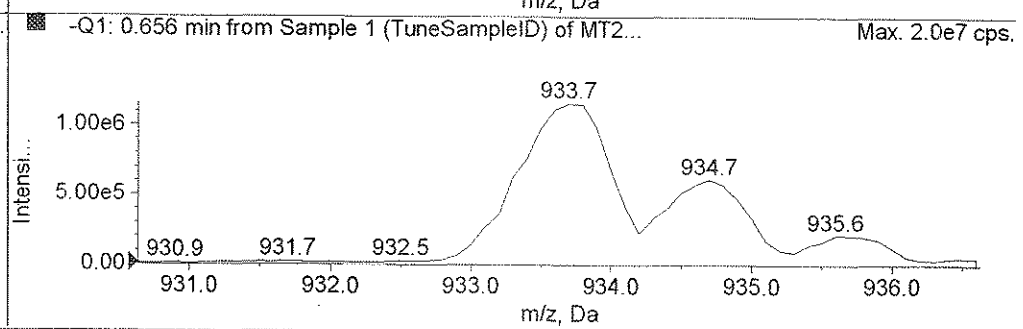
J:\LCMS03\Oxyanions\022217-6850\022217-6850_injlog.xls

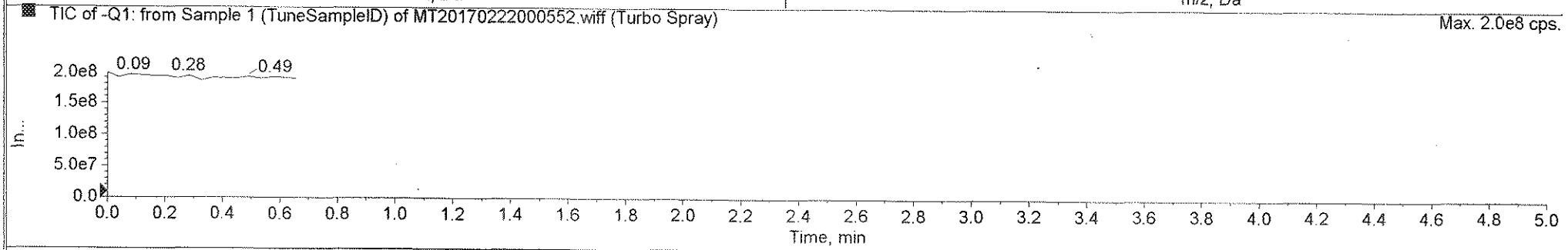
Acquisition Date	Vial Position	Sample Name	Sample ID	Acquisition Method	File Name	IS Peak Area (counts)	Internal Standard (>50%)	Perchlorate	Ion 83 Response	Ion 85 Response	35Cl/37Cl Isotope Ratio (criteria: 2.3-3.8)	Ratio Evaluation
2/22/17 1:16 AM	69	6850 IB	16-OLC-02-50N	oxyanion MeOH Isocr	022217-6850\0001.wiff	21494000	ical average	0	0	16821	**0.0**	NA (<MDL)
2/22/17 1:21 AM	51	6850 CAL 0.10ppb	16-OLC-02-50C	oxyanion MeOH Isocr	022217-6850\0002.wiff	21490000	**18157667**	0.1	510560	186330	2.7	NA (<MDL)
2/22/17 1:26 AM	52	6850 CAL 0.50ppb	16-OLC-02-50D	oxyanion MeOH Isocr	022217-6850\0003.wiff	21454000		0.5	2487500	833280	3.0	PASS
2/22/17 1:31 AM	53	6850 CAL 0.70ppb	16-OLC-02-50E	oxyanion MeOH Isocr	022217-6850\0004.wiff	21057000	**50% Average**	0.7	3529800	1192100	3.0	PASS
2/22/17 1:36 AM	54	6850 CAL 1.0ppb	16-OLC-02-50F	oxyanion MeOH Isocr	022217-6850\0005.wiff	20749000	9078833	1	5054800	1679500	3.0	PASS
2/22/17 1:41 AM	55	6850 CAL 2.0ppb	16-OLC-02-50G	oxyanion MeOH Isocr	022217-6850\0006.wiff	20036000		2	9940000	3257600	3.1	PASS
2/22/17 1:46 AM	56	6850 CAL 5.0ppb	16-OLC-02-50H	oxyanion MeOH Isocr	022217-6850\0007.wiff	18601000	**150% Average**	5	21261000	7449600	2.9	PASS
2/22/17 1:51 AM	57	6850 CAL 10ppb	16-OLC-02-50I	oxyanion MeOH Isocr	022217-6850\0008.wiff	16170000	27236500	10	35279000	13298000	2.7	PASS
2/22/17 1:56 AM	58	6850 CAL 20ppb	16-OLC-02-50J	oxyanion MeOH Isocr	022217-6850\0009.wiff	12955000		20	52673000	21198000	2.5	PASS
2/22/17 2:01 AM	59	6850 CAL 30ppb	16-OLC-02-50K	oxyanion MeOH Isocr	022217-6850\0010.wiff	10907000		30	62665000	26755000	2.3	PASS
~~2/22/17 2:06 AM~~	~~60~~	~~6850 CAL 50ppb~~	~~16-OLC-02-50L~~	~~oxyanion MeOH Isocr~~	~~022217-6850\0011.wiff~~	~~8596100~~		50	79080000	34943000	2.3	PASS
2/22/17 2:11 AM	69	6850 IB	16-OLC-02-50N	oxyanion MeOH Isocr	022217-6850\0012.wiff	20056000		0	0	11514	**0.0**	NA (<MDL)
2/22/17 2:16 AM	61	6850 ICV 10ppb	16-OLC-02-50M	oxyanion MeOH Isocr	022217-6850\0013.wiff	14487000		10.9	35734000	13250000	2.7	PASS
2/22/17 2:21 AM	69	6850 IB	16-OLC-02-50N	oxyanion MeOH Isocr	022217-6850\0014.wiff	20302000		0	0	16997	**0.0**	NA (<MDL)
2/22/17 2:26 AM	11	KQ1701598-05	ICS	oxyanion MeOH Isocr	022217-6850\0015.wiff	4880800		0.544	602700	191880	3.1	PASS
2/22/17 2:31 AM	12	KQ1701598-06	LCS	oxyanion MeOH Isocr	022217-6850\0016.wiff	17213000		0.533	2083000	716820	2.9	PASS
2/22/17 2:36 AM	13	KQ1701598-07	MB	oxyanion MeOH Isocr	022217-6850\0017.wiff	18232000		0	0	14659	**0.0**	NA (<MDL)
2/22/17 2:41 AM	14	K1700744-001		oxyanion MeOH Isocr	022217-6850\0018.wiff	18458000		0.0273	114330	45901	2.5	NA (<MDL)
2/22/17 2:46 AM	15	KQ1701598-03	K1700744-001MS	oxyanion MeOH Isocr	022217-6850\0019.wiff	16861000		0.578	2212500	748760	3.0	PASS
2/22/17 2:51 AM	16	KQ1701598-04	K1700744-001DMS	oxyanion MeOH Isocr	022217-6850\0020.wiff	18216000		0.57	2357600	812540	2.9	PASS
2/22/17 2:56 AM	17	K1701351-012		oxyanion MeOH Isocr	022217-6850\0021.wiff	19172000		0.0074	32176	21317	**1.5**	NA (<MDL)
2/22/17 3:01 AM	18	KQ1701598-01	K1701351-012MS	oxyanion MeOH Isocr	022217-6850\0022.wiff	18558000		0.521	2192000	757480	2.9	PASS
2/22/17 3:06 AM	19	KQ1701598-02	K1701351-012DMS	oxyanion MeOH Isocr	022217-6850\0023.wiff	17931000		0.55	2236400	772330	2.9	PASS
2/22/17 3:11 AM	20	K1701351-013		oxyanion MeOH Isocr	022217-6850\0024.wiff	17610000		0.0517	206480	80339	2.6	NA (<MDL)
2/22/17 3:16 AM	57	6850 CCV 10ppb	16-OLC-02-50J	oxyanion MeOH Isocr	022217-6850\0025.wiff	14642000		9.99	33184000	12207000	2.7	PASS
2/22/17 3:21 AM	69	6850 IB	16-OLC-02-50N	oxyanion MeOH Isocr	022217-6850\0026.wiff	19421000		0	0	13694	**0.0**	NA (<MDL)











Peak List for "-Q1: 0.656 min from Sample 1 (TuneSampleID) of MT20170222000552.wiff (Turbo Spray)"

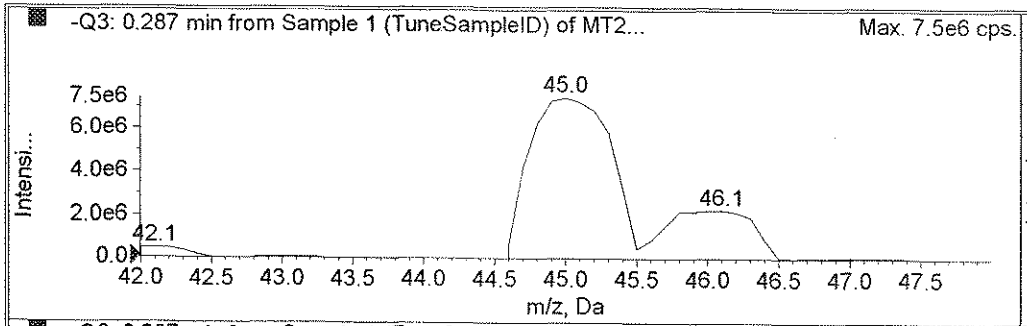
	Target Mass (Da)	Found At (Da)	Intensity (cps)	Width (Da)	Mass Shift (Da)
1	44.9980	45.0764	2.0046e7	0.6583	-0.0784 ✓
2	411.2590	411.3638	1.8610e5	0.5600	-0.1048 ✓
3	585.3850	585.4557	2.9140e5	0.6669	-0.0707 ✓
4	933.6360	933.6857	1.1563e6	0.7604	-0.0497 ✓

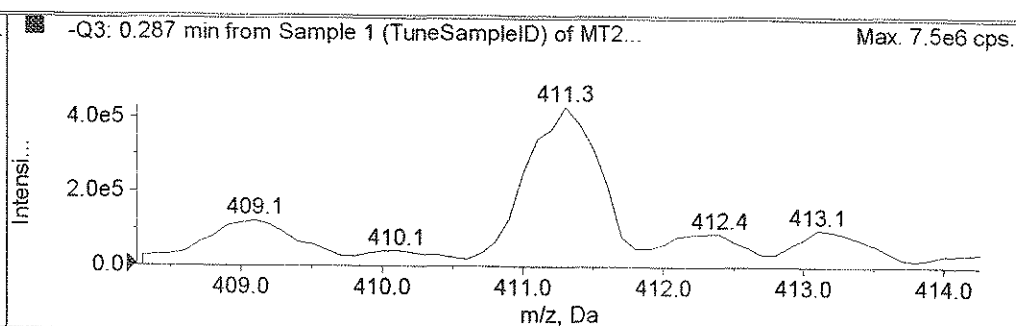
Q1 negative tune check. Solution: NEG APG 3×10^{-5} M, AB Sciex Lot A6138.

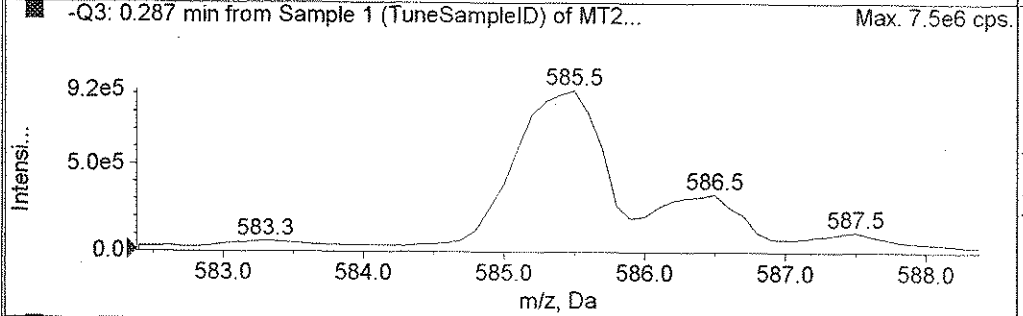
Mass shift $< \pm 0.5$ Da.

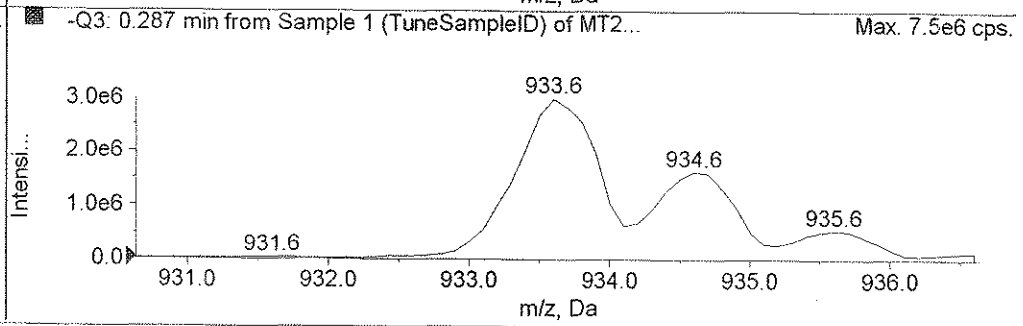
Jc/11/17

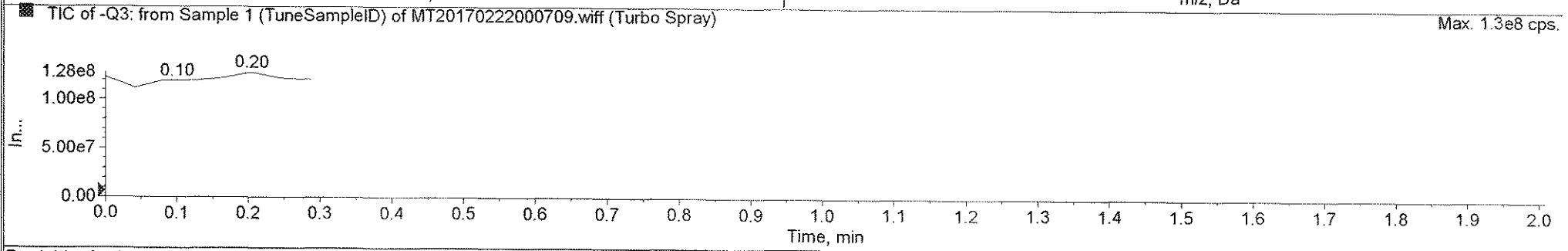
Mzl 2/1/17











Peak List for "-Q3: 0.287 min from Sample 1 (TuneSampleID) of MT20170222000709.wiff (Turbo Spray)"

	Target Mass (Da)	Found At (Da)	Intensity (cps)	Width (Da)	Mass Shift (Da)
1	44.9980	45.0309	7.4659e6	0.6949	-0.0329 ✓
2	411.2590	411.2809	4.3110e5	0.6319	-0.0219 ✓
3	585.3850	585.4029	9.2190e5	0.7053	-0.0179 ✓
4	933.6360	933.6425	2.9771e6	0.6426	-6.5421e-3 ✓

Q3 negative tune check. Solution: NEG PPG 3×10^{-5} M, AB Sciex Lot A6138.

Mass shift ± 0.15 Da.

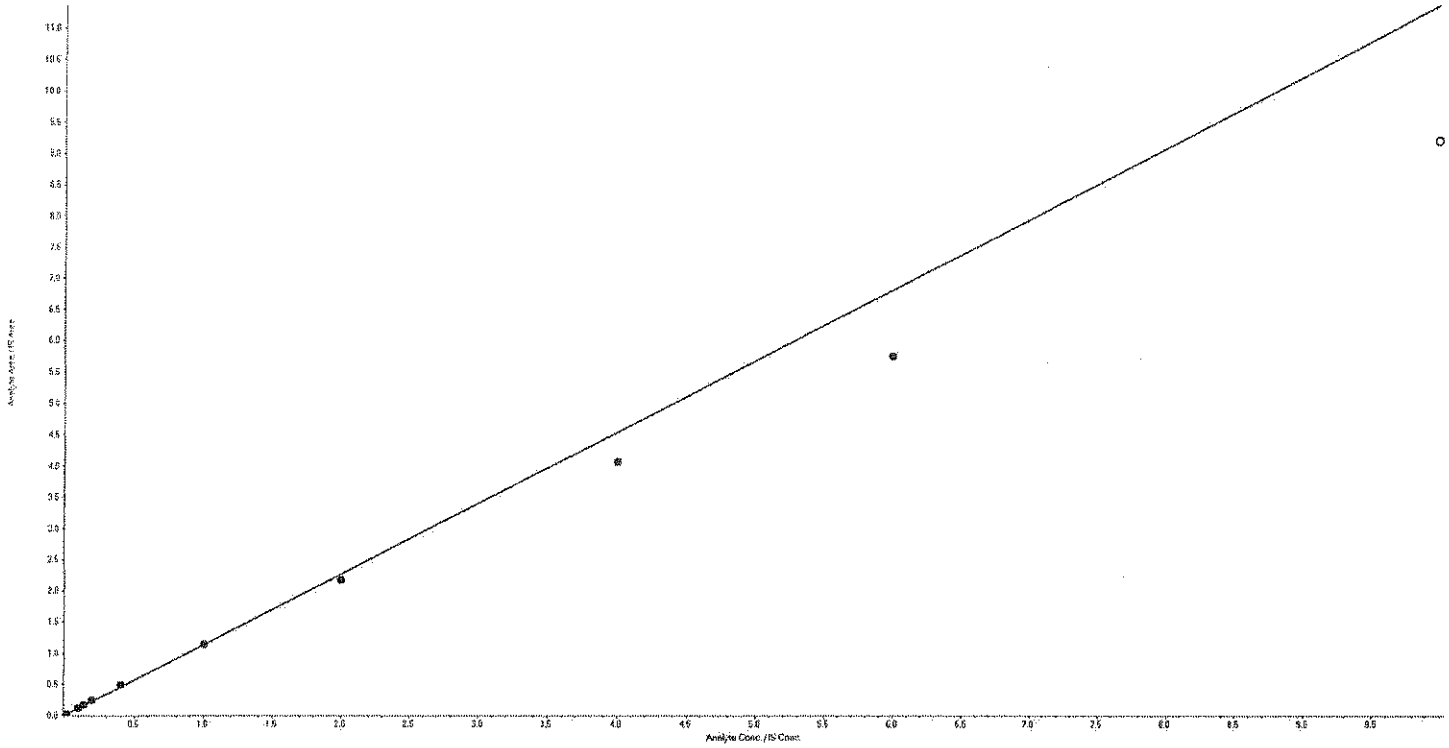
10/24/17

Analyte Name: Perchlorate 1
Internal Standard: Perchlorate_18O

Data File	022217-6850\0001.wiff	**Result Table**	022217-6850.rdb
Acquisition Date	2/22/2017 1:16:09 AM	**Algorithm Used**	MQL
Acquisition Method	oxyanion_MeOH_Isocratic.dam	**Instrument Name**	LCMS03
Project	CAS Methods\Oxyanions		

Regression Equation: y = 1.13 x (std. dev. = 0.0954) 1/1/60² = 8.44

Exp Conc (ng/mL)	Calc Conc (ng/mL)	% Accuracy	STD	%CV
0.1	0.10	105	NaN	NaN
0.5	0.51	102	NaN	NaN
0.7	0.74	106	NaN	NaN
1	1.07	107	NaN	NaN
2	2.19	109	NaN	NaN
5	5.04	101	NaN	NaN
10	9.61	96	NaN	NaN
20	17.92	90	NaN	NaN
30	25.32	84	NaN	NaN



Mz 2/24/17

Project	CAS Methods\Oxyanions
Data File	022217-6850\0001.wiff
Result Table	022217-6850.rdb
Instrument Name	LCMS03

Sample Name	6850 IB	**Injection Volume**	50
Acquisition Date	2/22/2017 1:16:09 AM	**Sample Type**	Unknown
Acquisition Method	oxyanion_MeOH_Isocratic.dam	**Dilution Factor**	1.00
Injection Vial	69	**Weight to Volume**	0.00

Results Summary

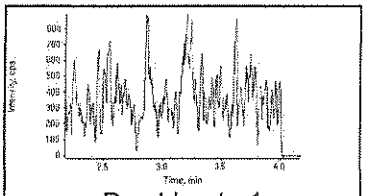
Analyte Name	IS Name	IS Area	Analyte RT (Exp RT)	Analyte Area	Calc. Conc (ng/mL)	Modified?
Perchlorate 1	Perchlorate_18O	21494000	0.00 (3.16)	0	N/A	No

IRC Summary

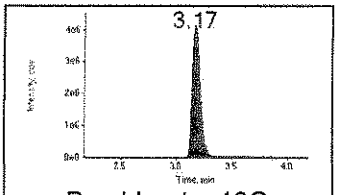
Analyte Peak Name	RT (Exp RT)	Area	Modified?	Calc (Exp) MRM Ratio	Ratio Confirms ID
Perchlorate 2	3.18 (3.17)	16821	No	0.00 (0.36)	No

Quantitative Peak Review

6850 IB 16-OLC-02-50N

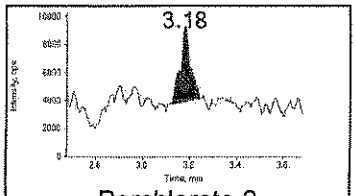


Perchlorate 1
99.000/83.000 Da
□ Baseline □ Missed
□ Wrong Peak



Perchlorate_18O
107.000/89.000 Da
□ Baseline □ Missed
□ Wrong Peak

Ion Ratio Confirmation



Perchlorate 2
Mod? No
□ Baseline □ Missed
□ Wrong Peak

Project	CAS Methods\Oxyanions	**Result Table**	022217-6850.rdb
Data File	022217-6850\0002.wiff	**Algorithm Used**	MQL
Acquisition Method	oxyanion_MeOH_Isocratic.dam	**Instrument Name**	LCMS03

Sample Name	6850 CAL 0.10ppb	**Injection Vial**	51
Acquisition Date	2/22/2017 1:21:10 AM	**Injection Volume**	50
Acquisition Method	oxyanion_MeOH_Isocratic.dam	**Sample Type**	Standard
Sample ID	16-OLC-02-50C	**Dilution Factor**	1.00
Sample Comment		**Weight to Volume**	0.00

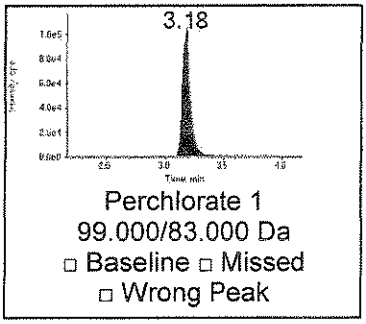
Results Summary

Analyte Name	Analyte RT (Expected)	IS Name	IS Area	Analyte Area	Exp Conc (ng/mL)	Calc. Conc (ng/mL)	Accuracy (%)	Mod?
Perchlorate 1	3.18 (3.17)	Perchlorate_18O	21490000	510560	0.10	0.11	105	No

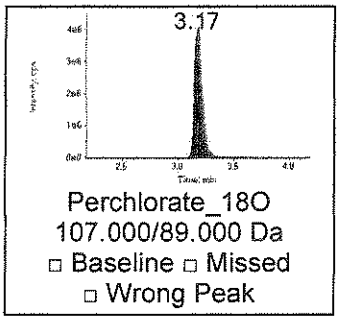
IRC Summary

Analyte Peak Name	RT (Expected)	Area	Modified?	Calculated Ion Ratio (Expected Value)
Perchlorate 2	**3.18 (3.17)**	**186330**	No	**0.36**

Quantitative Peak Review — 6850 CAL 0.10ppb 16-OLC-02-50C

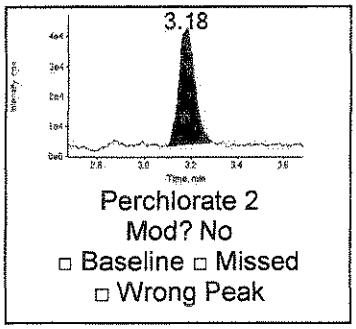


Perchlorate 1
99.000/83.000 Da
□ Baseline □ Missed
□ Wrong Peak



Perchlorate_18O
107.000/89.000 Da
□ Baseline □ Missed
□ Wrong Peak

Ion Ratio Confirmation



Perchlorate 2
Mod? No
□ Baseline □ Missed
□ Wrong Peak

2/24/17

Project	CAS Methods\Oxyanions	**Result Table**	022217-6850.rdb
Data File	022217-6850\0003.wiff	**Algorithm Used**	MQL
Acquisition Method	oxyanion_MeOH_Isocratic.dam	**Instrument Name**	LCMS03

Sample Name	6850 CAL 0.50ppb	**Injection Vial**	52
Acquisition Date	2/22/2017 1:26:09 AM	**Injection Volume**	50
Acquisition Method	oxyanion_MeOH_Isocratic.dam	**Sample Type**	Standard
Sample ID	16-OLC-02-50D	**Dilution Factor**	1.00
Sample Comment		**Weight to Volume**	0.00

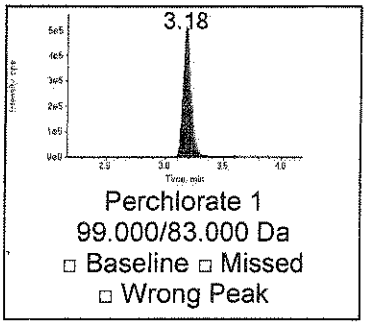
Results Summary

Analyte Name	Analyte RT (Expected)	IS Name	IS Area	Analyte Area	Exp Conc (ng/mL)	Calc. Conc (ng/mL)	Accuracy (%)	Mod?
Perchlorate 1	3.18 (3.17)	Perchlorate_18O	21454000	2487500	0.50	0.51	102	No

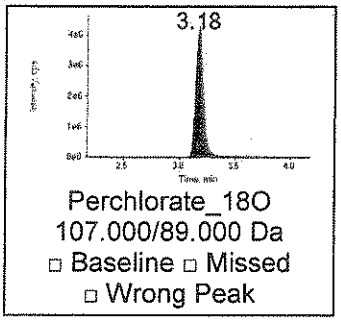
IRC Summary

Analyte Peak Name	RT (Expected)	Area	Modified?	Calculated Ion Ratio (Expected Value)
Perchlorate 2	**3.18 (3.18)**	**833280**	No	**0.33**

Quantitative Peak Review — 6850 CAL 0.50ppb 16-OLC-02-50D

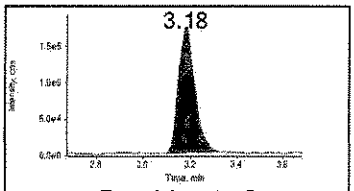


Perchlorate 1
99.000/83.000 Da
□ Baseline □ Missed
□ Wrong Peak



Perchlorate_18O
107.000/89.000 Da
□ Baseline □ Missed
□ Wrong Peak

Ion Ratio Confirmation



Perchlorate 2
Mod? No
□ Baseline □ Missed
□ Wrong Peak

2/24/17

Project	CAS Methods\Oxyanions	**Result Table**	022217-6850.rdb
Data File	022217-6850\0004.wiff	**Algorithm Used**	MQL
Acquisition Method	oxyanion_MeOH_Isocratic.dam	**Instrument Name**	LCMS03

Sample Name	6850 CAL 0.70ppb	**Injection Vial**	53
Acquisition Date	2/22/2017 1:31:11 AM	**Injection Volume**	50
Acquisition Method	oxyanion_MeOH_Isocratic.dam	**Sample Type**	Standard
Sample ID	16-OLC-02-50E	**Dilution Factor**	1.00
Sample Comment		**Weight to Volume**	0.00

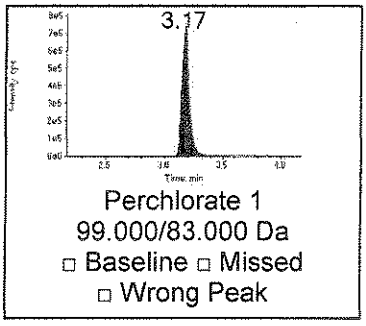
Results Summary

Analyte Name	Analyte RT (Expected)	IS Name	IS Area	Analyte Area	Exp Conc (ng/mL)	Calc. Conc (ng/mL)	Accuracy (%)	Mod?
Perchlorate 1	3.17 (3.17)	Perchlorate_18O	21057000	3529800	0.70	0.74	106	No

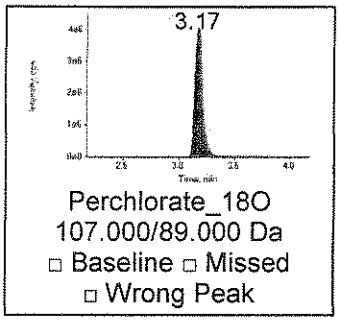
IRC Summary

Analyte Peak Name	RT (Expected)	Area	Modified?	Calculated Ion Ratio (Expected Value)
Perchlorate 2	**3.18 (3.17)**	**1192100**	No	**0.34**

Quantitative Peak Review — 6850 CAL 0.70ppb 16-OLC-02-50E

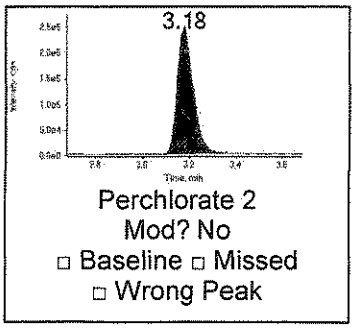


Perchlorate 1
99.000/83.000 Da
□ Baseline □ Missed
□ Wrong Peak



Perchlorate_18O
107.000/89.000 Da
□ Baseline □ Missed
□ Wrong Peak

Ion Ratio Confirmation



Perchlorate 2
Mod? No
□ Baseline □ Missed
□ Wrong Peak

Project	CAS Methods\Oxyanions	**Result Table**	022217-6850.rdb
Data File	022217-6850\0005.wiff	**Algorithm Used**	MQL
Acquisition Method	oxyanion_MeOH_Isocratic.dam	**Instrument Name**	LCMS03

Sample Name	6850 CAL 1.0ppb	**Injection Vial**	54
Acquisition Date	2/22/2017 1:36:09 AM	**Injection Volume**	50
Acquisition Method	oxyanion_MeOH_Isocratic.dam	**Sample Type**	Standard
Sample ID	16-OLC-02-50F	**Dilution Factor**	1.00
Sample Comment		**Weight to Volume**	0.00

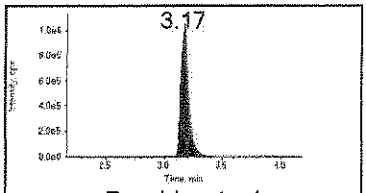
Results Summary

Analyte Name	Analyte RT (Expected)	IS Name	IS Area	Analyte Area	Exp Conc (ng/mL)	Calc. Conc (ng/mL)	Accuracy (%)	Mod?
Perchlorate 1	3.17 (3.17)	Perchlorate_18O	20749000	5054800	1.00	1.07	107	No

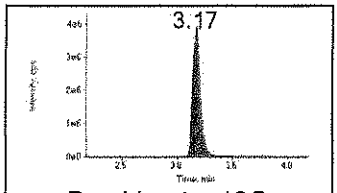
IRC Summary

Analyte Peak Name	RT (Expected)	Area	Modified?	Calculated Ion Ratio (Expected Value)
Perchlorate 2	**3.18 (3.17)**	**1679500**	No	**0.33**

Quantitative Peak Review — 6850 CAL 1.0ppb 16-OLC-02-50F

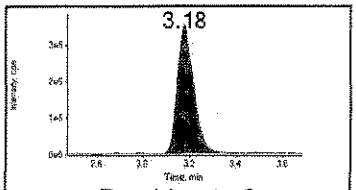


Perchlorate 1
99.000/83.000 Da
□ Baseline □ Missed
□ Wrong Peak



Perchlorate_18O
107.000/89.000 Da
□ Baseline □ Missed
□ Wrong Peak

Ion Ratio Confirmation



Perchlorate 2
Mod? No
□ Baseline □ Missed
□ Wrong Peak

Project	CAS Methods\Oxyanions	Result Table	022217-6850.rdb
Data File	022217-6850\0006.wiff	Algorithm Used	MQL
Acquisition Method	oxyanion_MeOH_Isocratic.dam	Instrument Name	LCMS03

Sample Name	6850 CAL 2.0ppb	Injection Vial	55
Acquisition Date	2/22/2017 1:41:09 AM	Injection Volume	50
Acquisition Method	oxyanion_MeOH_Isocratic.dam	Sample Type	Standard
Sample ID	16-OLC-02-50G	Dilution Factor	1.00
Sample Comment		Weight to Volume	0.00

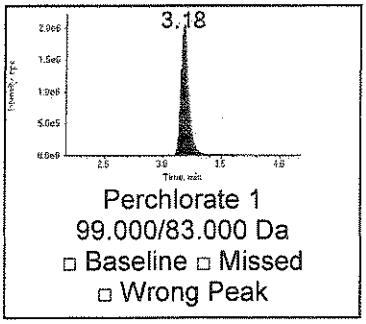
Results Summary

Analyte Name	Analyte RT (Expected)	IS Name	IS Area	Analyte Area	Exp Conc (ng/mL)	Calc. Conc (ng/mL)	Accuracy (%)	Mod?
Perchlorate 1	3.18 (3.17)	Perchlorate_18O	20036000	9940000	2.00	2.19	109	No

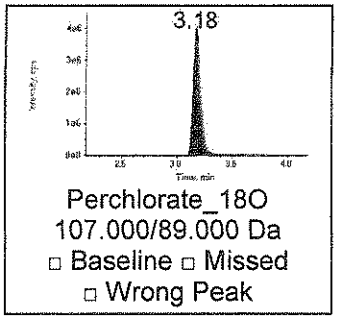
IRC Summary

Analyte Peak Name	RT (Expected)	Area	Modified?	Calculated Ion Ratio (Expected Value)
Perchlorate 2	3.18 (3.18)	3257600	No	0.33

Quantitative Peak Review 6850 CAL 2.0ppb 16-OLC-02-50G

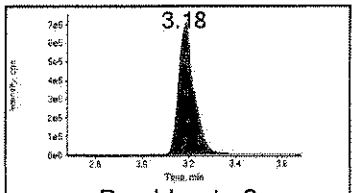


Perchlorate 1
99.000/83.000 Da
□ Baseline □ Missed
□ Wrong Peak



Perchlorate_18O
107.000/89.000 Da
□ Baseline □ Missed
□ Wrong Peak

Ion Ratio Confirmation



Perchlorate 2
Mod? No
□ Baseline □ Missed
□ Wrong Peak

2/24/17
2/24/17

Project	CAS Methods\Oxyanions	Result Table	022217-6850.rdb
Data File	022217-6850\0007.wiff	Algorithm Used	MQL
Acquisition Method	oxyanion_MeOH_Isocratic.dam	Instrument Name	LCMS03

Sample Name	6850 CAL 5.0ppb	Injection Vial	56
Acquisition Date	2/22/2017 1:46:09 AM	Injection Volume	50
Acquisition Method	oxyanion_MeOH_Isocratic.dam	Sample Type	Standard
Sample ID	16-OLC-02-50H	Dilution Factor	1.00
Sample Comment		Weight to Volume	0.00

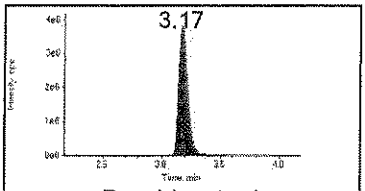
Results Summary

Analyte Name	Analyte RT (Expected)	IS Name	IS Area	Analyte Area	Exp Conc (ng/mL)	Calc. Conc (ng/mL)	Accuracy (%)	Mod?
Perchlorate 1	3.17 (3.17)	Perchlorate_18O	18601000	21261000	5.00	5.04	101	No

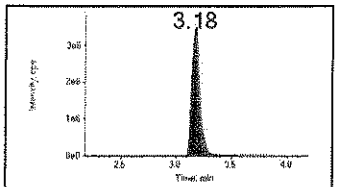
IRC Summary

Analyte Peak Name	RT (Expected)	Area	Modified?	Calculated Ion Ratio (Expected Value)
Perchlorate 2	3.17 (3.18)	7449600	No	0.35

Quantitative Peak Review 6850 CAL 5.0ppb 16-OLC-02-50H

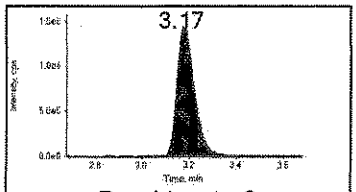


Perchlorate 1
99.000/83.000 Da
□ Baseline □ Missed
□ Wrong Peak



Perchlorate_18O
107.000/89.000 Da
□ Baseline □ Missed
□ Wrong Peak

Ion Ratio Confirmation



Perchlorate 2
Mod? No
□ Baseline □ Missed
□ Wrong Peak

2/24/17

Project	CAS Methods\Oxyanions	Result Table	022217-6850.rdb
Data File	022217-6850\0008.wiff	Algorithm Used	MQL
Acquisition Method	oxyanion_MeOH_Isocratic.dam	Instrument Name	LCMS03

Sample Name	6850 CAL 10ppb	Injection Vial	57
Acquisition Date	2/22/2017 1:51:06 AM	Injection Volume	50
Acquisition Method	oxyanion_MeOH_Isocratic.dam	Sample Type	Standard
Sample ID	16-OLC-02-50I	Dilution Factor	1.00
Sample Comment		Weight to Volume	0.00

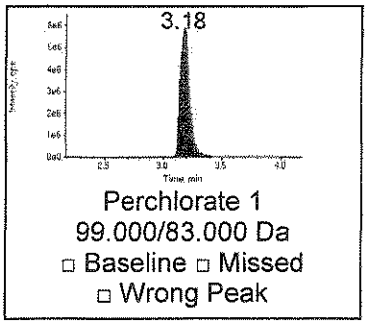
Results Summary

Analyte Name	Analyte RT (Expected)	IS Name	IS Area	Analyte Area	Exp Conc (ng/mL)	Calc. Conc (ng/mL)	Accuracy (%)	Mod?
Perchlorate 1	3.18 (3.17)	Perchlorate_18O	16170000	35279000	10.00	9.61	96	No

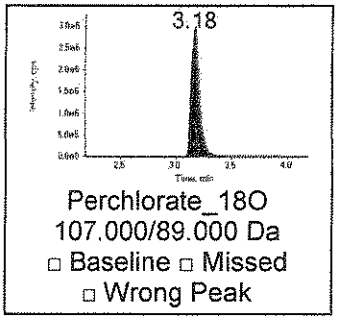
IRC Summary

Analyte Peak Name	RT (Expected)	Area	Modified?	Calculated Ion Ratio (Expected Value)
Perchlorate 2	3.18 (3.18)	13298000	No	0.38

Quantitative Peak Review — 6850 CAL 10ppb 16-OLC-02-50I

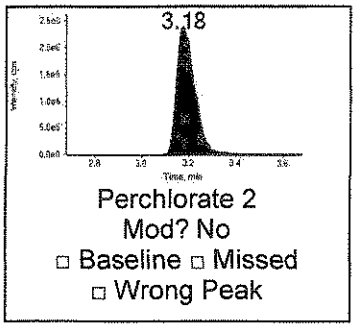


Perchlorate 1
99.000/83.000 Da
□ Baseline □ Missed
□ Wrong Peak



Perchlorate_18O
107.000/89.000 Da
□ Baseline □ Missed
□ Wrong Peak

Ion Ratio Confirmation



Perchlorate 2
Mod? No
□ Baseline □ Missed
□ Wrong Peak

2/24/17

Project	CAS Methods\Oxyanions	**Result Table**	022217-6850.rdb
Data File	022217-6850\0009.wiff	**Algorithm Used**	MQL
Acquisition Method	oxyanion_MeOH_Isocratic.dam	**Instrument Name**	LCMS03

Sample Name	6850 CAL 20ppb	**Injection Vial**	58
Acquisition Date	2/22/2017 1:56:07 AM	**Injection Volume**	50
Acquisition Method	oxyanion_MeOH_Isocratic.dam	**Sample Type**	Standard
Sample ID	16-OLC-02-50J	**Dilution Factor**	1.00
Sample Comment		**Weight to Volume**	0.00

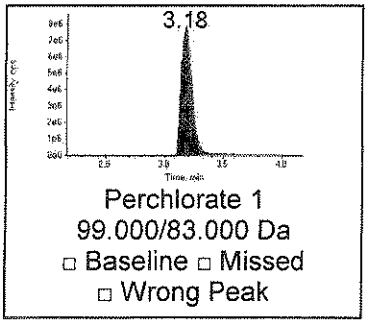
Results Summary

Analyte Name	Analyte RT (Expected)	IS Name	IS Area	Analyte Area	Exp Conc (ng/mL)	Calc. Conc (ng/mL)	Accuracy (%)	Mod?
Perchlorate 1	3.18 (3.17)	Perchlorate_18O	12955000	52673000	20.00	17.90	90	No

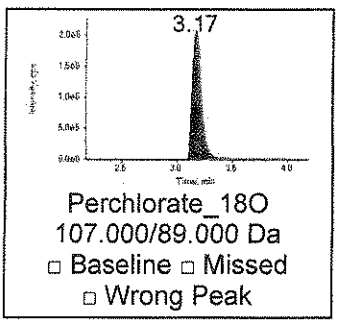
IRC Summary

Analyte Peak Name	RT (Expected)	Area	Modified?	Calculated Ion Ratio (Expected Value)
Perchlorate 2	**3.17 (3.17)**	**21198000**	No	**0.40**

Quantitative Peak Review — 6850 CAL 20ppb 16-OLC-02-50J

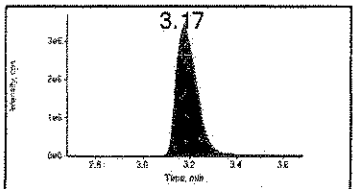


Perchlorate 1
99.000/83.000 Da
□ Baseline □ Missed
□ Wrong Peak



Perchlorate_18O
107.000/89.000 Da
□ Baseline □ Missed
□ Wrong Peak

Ion Ratio Confirmation



Perchlorate 2
Mod? No
□ Baseline □ Missed
□ Wrong Peak

MH 2/24/17

Project	CAS Methods\Oxyanions	Result Table	022217-6850.rdb
Data File	022217-6850\0010.wiff	Algorithm Used	MQL
Acquisition Method	oxyanion_MeOH_Isocratic.dam	Instrument Name	LCMS03

Sample Name	6850 CAL 30ppb	Injection Vial	59
Acquisition Date	2/22/2017 2:01:07 AM	Injection Volume	50
Acquisition Method	oxyanion_MeOH_Isocratic.dam	Sample Type	Standard
Sample ID	16-OLC-02-50K	Dilution Factor	1.00
Sample Comment		Weight to Volume	0.00

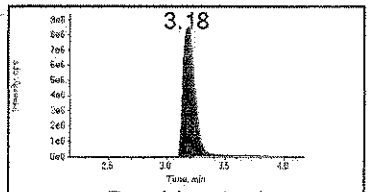
Results Summary

Analyte Name	Analyte RT (Expected)	IS Name	IS Area	Analyte Area	Exp Conc (ng/mL)	Calc. Conc (ng/mL)	Accuracy (%)	Mod?
Perchlorate 1	3.18 (3.18)	Perchlorate_18O	10907000	62665000	30.00	25.30	84	No

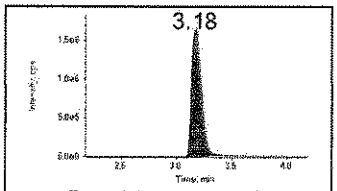
IRC Summary

Analyte Peak Name	RT (Expected)	Area	Modified?	Calculated Ion Ratio (Expected Value)
Perchlorate 2	3.18 (3.18)	26755000	No	0.43

Quantitative Peak Review — 6850 CAL 30ppb 16-OLC-02-50K

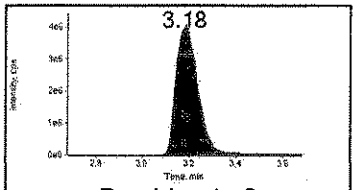


Perchlorate 1
99.000/83.000 Da
□ Baseline □ Missed
□ Wrong Peak



Perchlorate_18O
107.000/89.000 Da
□ Baseline □ Missed
□ Wrong Peak

Ion Ratio Confirmation



Perchlorate 2
Mod? No
□ Baseline □ Missed
□ Wrong Peak

2/24/17

Project	CAS Methods\Oxyanions
Data File	022217-6850\0012.wiff
Result Table	022217-6850.rdb
Instrument Name	LCMS03

Sample Name	6850 IB	**Injection Volume**	50
Acquisition Date	2/22/2017 2:11:10 AM	**Sample Type**	Unknown
Acquisition Method	oxyanion_MeOH_Isocratic.dam	**Dilution Factor**	1.00
Injection Vial	69	**Weight to Volume**	0.00

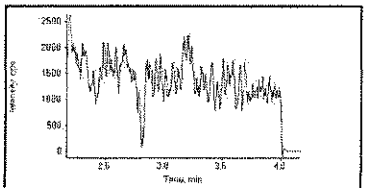
Results Summary

Analyte Name	IS Name	IS Area	Analyte RT (Exp RT)	Analyte Area	Calc. Conc (ng/mL)	Modified?
Perchlorate 1	Perchlorate_18O	20056000	0.00 (3.17)	0	N/A	No

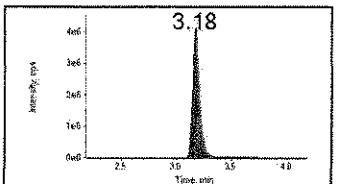
IRC Summary

Analyte Peak Name	RT (Exp RT)	Area	Modified?	Calc (Exp) MRM Ratio	Ratio Confirms ID
Perchlorate 2	3.18 (3.18)	11514	No	0.00 (0.36)	No

Quantitative Peak Review 6850 IB 16-OLC-02-50N

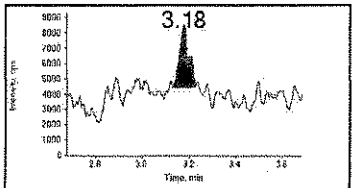


Perchlorate 1
99.000/83.000 Da
□ Baseline □ Missed
□ Wrong Peak



Perchlorate_18O
107.000/89.000 Da
□ Baseline □ Missed
□ Wrong Peak

Ion Ratio Confirmation



Perchlorate 2
Mod? No
□ Baseline □ Missed
□ Wrong Peak

2/24/17

Project	CAS Methods\Oxyanions	**Result Table**	022217-6850.rdb
Data File	022217-6850\0013.wiff	**Algorithm Used**	MQL
Acquisition Method	oxyanion_MeOH_Isocratic.dam	**Instrument Name**	LCMS03

Sample Name	6850 ICV 10ppb	**Injection Vial**	61
Acquisition Date	2/22/2017 2:16:11 AM	**Injection Volume**	50
Acquisition Method	oxyanion_MeOH_Isocratic.dam	**Sample Type**	Quality Control
Sample ID	16-OLC-02-50M	**Dilution Factor**	1.00
Sample Comment		**Weight to Volume**	0.00

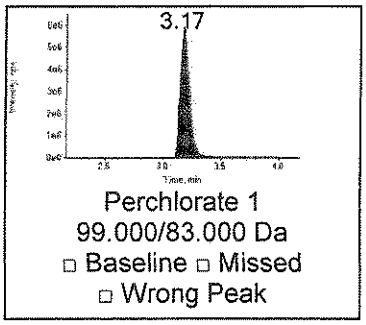
Results Summary

Analyte Name	Analyte RT (Expected)	IS Name	IS Area	Analyte Area	Exp Conc (ng/mL)	Calc. Conc (ng/mL)	Accuracy (%)	Mod?
Perchlorate 1	3.17 (3.17)	Perchlorate_18O	14487000	35734000	10.00	10.90	109	No

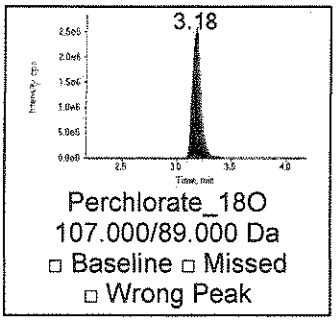
IRC Summary

Analyte Peak Name	RT (Exp RT)	Area	Modified?	Ratio Confirms ID
Perchlorate 2	3.18 (3.18)	13250000	No	YES

Quantitative Peak Review 6850 ICV 10ppb 16-OLC-02-50M

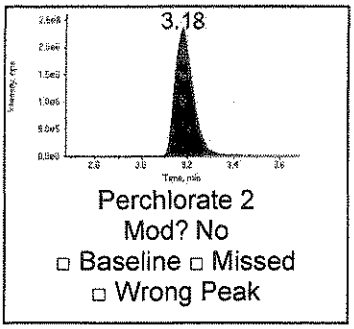


Perchlorate 1
99.000/83.000 Da
□ Baseline □ Missed
□ Wrong Peak



Perchlorate_18O
107.000/89.000 Da
□ Baseline □ Missed
□ Wrong Peak

Ion Ratio Confirmation



Perchlorate 2
Mod? No
□ Baseline □ Missed
□ Wrong Peak

2/24/17

Project	CAS Methods\Oxyanions
Data File	022217-6850\0014.wiff
Result Table	022217-6850.rdb
Instrument Name	LCMS03

Sample Name	6850 IB	Injection Volume	50
Acquisition Date	2/22/2017 2:21:11 AM	Sample Type	Unknown
Acquisition Method	oxyanion_MeOH_Isocratic.dam	Dilution Factor	1.00
Injection Vial	69	Weight to Volume	0.00

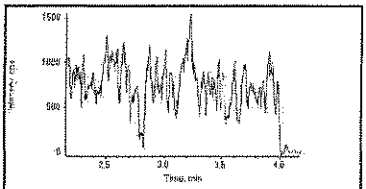
Results Summary

Analyte Name	IS Name	IS Area	Analyte RT (Exp RT)	Analyte Area	Calc. Conc (ng/mL)	Modified?
Perchlorate 1	Perchlorate_18O	20302000	0.00 (3.17)	0	N/A	No

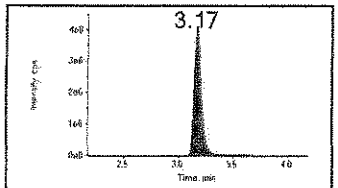
IRC Summary

Analyte Peak Name	RT (Exp RT)	Area	Modified?	Calc (Exp) MRM Ratio	Ratio Confirms ID
Perchlorate 2	3.18 (3.17)	16997	No	0.00 (0.36)	No

Quantitative Peak Review 6850 IB 16-OLC-02-50N

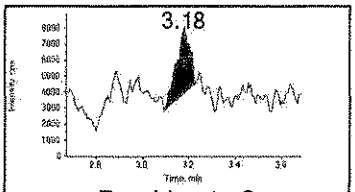


Perchlorate 1
99.000/83.000 Da
□ Baseline □ Missed
□ Wrong Peak



Perchlorate_18O
107.000/89.000 Da
□ Baseline □ Missed
□ Wrong Peak

Ion Ratio Confirmation



Perchlorate 2
Mod? No
□ Baseline □ Missed
□ Wrong Peak

2/24/17

Project	CAS Methods\Oxyanions	**Result Table**	022217-6850.rdb
Data File	022217-6850\0025.wiff	**Algorithm Used**	MQL
Acquisition Method	oxyanion_MeOH_Isocratic.dam	**Instrument Name**	LCMS03

Sample Name	6850 CCV 10ppb	**Injection Vial**	57
Acquisition Date	2/22/2017 3:16:12 AM	**Injection Volume**	50
Acquisition Method	oxyanion_MeOH_Isocratic.dam	**Sample Type**	Quality Control
Sample ID	16-OLC-02-50l	**Dilution Factor**	1.00
Sample Comment		**Weight to Volume**	0.00

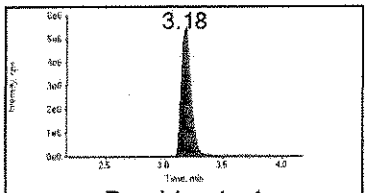
Results Summary

Analyte Name	Analyte RT (Expected)	IS Name	IS Area	Analyte Area	Exp Conc (ng/mL)	Calc. Conc (ng/mL)	Accuracy (%)	Mod?
Perchlorate 1	3.18 (3.17)	Perchlorate_18O	14642000	33184000	10.00	9.99	100	No

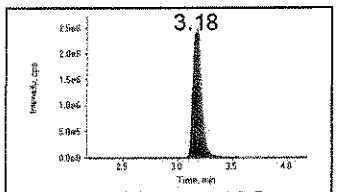
IRC Summary

Analyte Peak Name	RT (Exp RT)	Area	Modified?	Ratio Confirms ID
Perchlorate 2	3.18 (3.18)	12207000	No	YES

Quantitative Peak Review — 6850 CCV 10ppb 16-OLC-02-50l



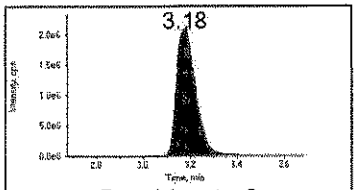
Perchlorate 1
99.000/83.000 Da
□ Baseline □ Missed
□ Wrong Peak



Perchlorate_18O
107.000/89.000 Da
□ Baseline □ Missed
□ Wrong Peak

2/24/17

Ion Ratio Confirmation



Perchlorate 2
Mod? No
□ Baseline □ Missed
□ Wrong Peak

Project	CAS Methods\Oxyanions
Data File	022217-6850\0026.wiff
Result Table	022217-6850.rdb
Instrument Name	LCMS03

Sample Name	6850 IB	Injection Volume	50
Acquisition Date	2/22/2017 3:21:16 AM	Sample Type	Unknown
Acquisition Method	oxyanion_MeOH_Isocratic.dam	Dilution Factor	1.00
Injection Vial	69	Weight to Volume	0.00

Results Summary

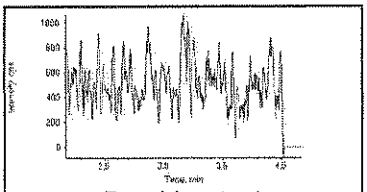
Analyte Name	IS Name	IS Area	Analyte RT (Exp RT)	Analyte Area	Calc. Conc (ng/mL)	Modified?
Perchlorate 1	Perchlorate_18O	19421000	0.00 (3.17)	0	N/A	No

IRC Summary

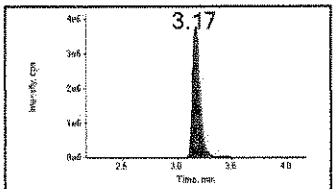
Analyte Peak Name	RT (Exp RT)	Area	Modified?	Calc (Exp) MRM Ratio	Ratio Confirms ID
Perchlorate 2	3.17 (3.17)	13694	No	0.00 (0.36)	No

Quantitative Peak Review

6850 IB 16-OLC-02-50N

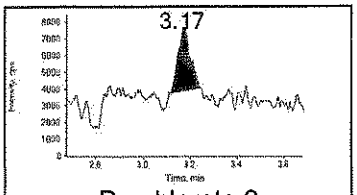


Perchlorate 1
99.000/83.000 Da
□ Baseline □ Missed
□ Wrong Peak



Perchlorate_18O
107.000/89.000 Da
□ Baseline □ Missed
□ Wrong Peak

Ion Ratio Confirmation



Perchlorate 2
Mod? No
□ Baseline □ Missed
□ Wrong Peak

Preparation Information Benchsheet

Prep Run#: 281632
Team: Organic LC/DMADDEN
Number of Copies to make: 2

Prep WorkFlow: OrgExtS(28)
Prep Method: Method

Status: Prepped
Prep Date/Time: ~~2/15/17 09:27 AM~~ 2/15/17 10:15 AM

#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	K1700744-001	FTBL-IS-174-012417	.01	6850/ClO4		Soil	1.0218g	10.00mL	DMadden K-Balance-33 / Sample slightly air dried before
2	KQ1701598-03	K1700744-001 MS	.01	6850/ClO4		Solid	1.0341g	10.00mL	
3	KQ1701598-04	K1700744-001 DMS	.01	6850/ClO4		Solid	1.0618g	10.00mL	
4	K1701351-012	FTBL-SB-03-0-0.5-020817	.01	6850/ClO4		Soil	1.117g	10.00mL	DMadden K-Balance-50
5	KQ1701598-01	K1701351-012 MS	.01	6850/ClO4		Solid	1.173g	10.00mL	DMadden K-Balance-50
6	KQ1701598-02	K1701351-012 DMS	.01	6850/ClO4		Solid	1.063g	10.00mL	DMadden K-Balance-50
7	K1701351-013	FTBL-SB-03-6-8-020817	.01	6850/ClO4		Soil	1.193g	10.00mL	DMadden K-Balance-50
8	KQ1701598-05	~~LODV~~ LCS		6850/ClO4		Solid	1.0g	10.00mL	
9	KQ1701598-06	LCS		6850/ClO4		Solid	1.0g	10.00mL	
10	KQ1701598-07	MB		6850/ClO4		Solid	1.0g	10.00mL	

Spiking Solutions

Name: Oxyanion IS 5ppm Inventory ID 177452 Logbook Ref: 16-OLC-02-04H Expires On: 05/17/2017

K1700744-001	10.00µL	K1701351-012	10.00µL	K1701351-013	10.00µL	KQ1701598-01	10.00µL	KQ1701598-02	10.00µL	KQ1701598-03	10.00µL
KQ1701598-04	10.00µL	KQ1701598-05	10.00µL	KQ1701598-06	10.00µL	KQ1701598-07	10.00µL				

Name: Perchlorate Spike 1ppm Inventory ID 179506 Logbook Ref: 16-OLC-02-49C Expires On: 08/15/2017

KQ1701598-01	5.00µL	KQ1701598-02	5.00µL	KQ1701598-03	5.00µL	KQ1701598-04	5.00µL	KQ1701598-05	5.00µL	KQ1701598-06	5.00µL

Preparation Steps

Step: Weigh
Started: 2/15/17 09:27
Finished: 2/21/17 21:38
By: [redacted]
Comments [redacted]

Step: Extraction
Started: 2/21/17 22:15
Finished: 2/21/17 22:45
By: [redacted]
Comments [redacted]

Comments:

Reviewed By: _____ Date: 2/22/17

11/01/2018
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016164

Preparation Information Benchsheet

Prep Run#: 281632
Team: Organic LC/DMADDEN

Prep WorkFlow: OrgExtS(28)
Prep Method:

Status: Prepped
Prep Date/Time: ~~2/15/17 09:27 AM~~ 02/16/17 22:15

EE for 02/16/17

11/01/2018

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Chain of Custody

[redacted] (b) (6)

Relinquished By: _____ Date: 02/16/17

Received By: _____ Date: 02/16/17

~~Extracts Examined~~ Yes No

Preparation Information Benchsheet

Prep Run#: 281632
Team: Organic LC/DMADDEN
Number of Copies to make: 2

Prep WorkFlow: OrgExtS(28)
Prep Method: Method

Status: Extraction JF 2/21/17
Prep Date/Time: ~~2/15/17 09:27 AM~~ 02/21/17 22:15

#	Lab Code	Client ID	B#	√	Method /Test	Matrix	Amt. Ext.	pH	Int. Vol	Final Vol	~~Surr~~ Amt IS JF 2/21/17	Spike Amt
1	**K1700744-001**	FTBL-IS-174-012417	.01	✓	6850 / ClO4	Soil	see attached	N/A	N/A	10 mL	10 uL	N/A
2	**KQ1701598-03**	K1700744-001 MS	.01	✓	6850 / ClO4	Solid	↓	↓	↓	↓	↓	Sul ✓
3	**KQ1701598-04**	K1700744-001 DMS	.01	✓	6850 / ClO4	Solid						↓
4	**K1701351-012**	FTBL-SB-03-0-0.5-020817	.01	✓	6850 / ClO4	Soil						N/A
5	**KQ1701598-01**	K1701351-012 MS	.01	✓	6850 / ClO4	Solid						Sul ✓
6	**KQ1701598-02**	K1701351-012 DMS	.01	✓	6850 / ClO4	Solid						↓
7	**K1701351-013**	FTBL-SB-03-6-8-020817	.01	✓	6850 / ClO4	Soil	↓					N/A
8	**KQ1701598-05**	~~LODV~~ LCS JF 2/21/17	✓	✓	6850 / ClO4	Solid	1g					Sul ✓ and ✓
9	**KQ1701598-06**	LCS	✓	✓	6850 / ClO4	Solid	↓					Sul ✓
10	**KQ1701598-07**	MB	✓		6850 / ClO4	Solid	↓	↓	↓	↓	↓	N/A

Comments: H_2O lot 50160. Sonication start: 22:33 02/21/17, stop 22:43 02/21/17 JF

~~Surrogate~~ ID: IS JF 2/21/17 16-OLC-02-04H 5.0ppm exp 05/2017

Spike ID: (P) 16-OLC-02-49C 1.0ppm perchlorate exp 08/15/17
(A) 16-OLC-01-55D 25,000ppm anions exp 04/19/17

Witnessed By: N/A

Analyst: JF 02/21/17

Assisted By: N/A

11/01/2018
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Pre-Prep Information Benchsheet

Prep Run #: 280427 **Prep Method:** **Team:** **Prep Due Date:** Feb-03-2017

#	Lab Code	Bottle	Test Name	Weight	Sample Comments	Test Comments
1	K1700744-001	.01	ClO4	1.0218g	Sample was slightly air dried. All pertinent data is recorded on the constant weight data sheet.	PrepComments:DMadden K-Balance-33
2	K1700744-001 MS KQ1700847-01	.01	ClO4	1.0341g		PrepComments:DMadden K-Balance-33
3	K1700744-001 DMS KQ1700847-02	.01	ClO4	1.0618g		PrepComments:DMadden K-Balance-33

*% Solids is a calculated field meant solely as a reference value for verifying the presence of Total Solids in calculations

Pre-Prep Information Benchsheet

Prep Run #: 281632 **Prep Method:** **Team:** **Prep Due Date:** Feb-21-2017

#	Lab Code	Bottle	Test Name	Weight	Sample Comments	Test Comments
1	K1701351-012	.01	ClO4	1.117g		PrepComments:DMadden K-Balance-50
2	K1701351-013	.01	ClO4	1.193g		PrepComments:DMadden K-Balance-50
3	K1701351-012 MS KQ1701598-01	.01	ClO4	1.173g		PrepComments:DMadden K-Balance-50
4	K1701351-012 DMS KQ1701598-02	.01	ClO4	1.063g		PrepComments:DMadden K-Balance-50

*% Solids is a calculated field meant solely as a reference value for verifying the presence of Total Solids in calculations

LABORATORY DATA CONSULTANTS, INC.
2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

ARCADIS U.S., Inc.
401 E. Main Street, Suite 400
El Paso, TX 79901
(b) (6)

April 18, 2017

SUBJECT: Fort Bliss, Castner Range, Data Validation

(b) (6)

Enclosed are the final validation reports for the fractions listed below. This SDG was received on April 4, 2017. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #38389:

SDG #	**Fraction:**
K1701351	Explosives, Metals, Perchlorate

The data validation was performed under Level III & IV guidelines. The analyses were validated using the following documents, as applicable to each method:

- Final Quality Assurance Project Plan, Military Munitions Response Program Remedial Investigation, Closed Castner Firing Range, Fort Bliss, El Paso, Texas, February 2015
- U.S. Department of Defense Quality Systems Manual for Environmental Laboratories, 5.0, July 2013
- USEPA, Contract Laboratory Program National Functional Guidelines for Superfund Organic Data Review, October 1999
- USEPA, Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review, October 2004
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; update IV, February 2007; update V, July 2014

Please feel free to contact us if you have any questions.

Sincerely,

(b) (6)

EDD 90/10 ADR/IV

LDC #38389 (Arcadis-Millersville, MD / Fort Bliss, Castner Range)

LDC	SDG#	DATE REC'D	(2) DATE DUE	(7) Metals (6020A)		Expl. (8330B)		CLO_4 (6850)																													
Matrix:	Water/Soil			W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	K1701351	04/04/17	04/18/17	3	12	3	13	0	1																												
A	K1701351	04/04/17	04/18/17	0	2	0	1	0	1																												
Total	T/PG			3	14	3	14	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36

Shaded cells indicate Level IV validation (all other cells are ADR validation). These sample counts do not include MS/MSD, and DUPs

L:\Arcadis\Fort Bliss-Castner Range\38389ST.wpd

Data Validation Report
Fort Bliss, Castner Range

SDG: K1701351

Prepared for

Arcadis U.S., Inc.
401 E. Main Street, Suite 400
El Paso, TX 79901

Prepared by

Laboratory Data Consultants, Inc.
2701 Loker Ave West, Suite 220
Carlsbad, CA 92010

April 17, 2017

INTRODUCTION

This Data Validation Report (DVR) presents Level III and Level IV data validation results for samples collected during the February 2017 sampling period. Data validation was performed in accordance with the Final Quality Assurance Project Plan (QAPP), Military Munitions Response Program Remedial Investigation, Closed Castner Firing Range, Fort Bliss, El Paso, Texas (February 2015), the U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.0 (July 2013), a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines (CLPNFG) for Organic Superfund Data Review (October 1999) and the EPA CLPNFG for Inorganic Superfund Data Review (October 2004). Where specific guidance is not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Explosives by Environmental Protection Agency (EPA) SW 846 Method 8330B
Metals by EPA SW 846 Method 6020A
Perchlorate by EPA SW 846 Method 6850

The sample identification and methods of analyses performed on each sample is presented in Attachment 1. Please note that sample names had to be truncated due to database limitations. Overall data qualification summary is presented in Attachment 2. Level III Automated Data Review outliers are presented in Enclosure I. DVRs for samples on which Level IV validation was performed are presented in Enclosure II.

All sample results were subjected to Level III data validation, which comprises an evaluation of quality control (QC) summary results for sample holding times, initial and continuing calibrations, initial and continuing calibration blanks (ICB/CCBs), laboratory blanks, interference check (ICSA and ICSAB) samples, equipment blanks, surrogates, matrix spike/matrix spike duplicates (MS/MSD), triplicate sample analysis (TRP), serial dilutions, laboratory control samples (LCS), standard reference material (SRM), internal standards, field duplicate samples, and split duplicate samples. Approximately 15 percent of samples were subjected to Level IV evaluation as indicated in Attachment 1, which comprises a review of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

Automated data review was performed on all QC summary results using the Automated Data Review (ADR) software program (LDC, 2013) with exception of the calibrations, calibration blanks, interference check samples, split duplicate samples, serial dilutions, and internal standards, which were validated manually. Quality assurance (QA)/QC criteria specified in the QAPP, DoD QSM and CLPNFGs were incorporated with the program's reference library to assess compliance with project requirements.

The following are definitions of the data qualifiers:

J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.

U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the analyte should be considered non-detect at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.

NJ (Presumptive): Presumptive evidence of presence of the compound at an estimated quantity.

NA (Not applicable): Data did not warrant qualification since detected results only are affected and the compound was not detected in the associated samples.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt & Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. Instrument Performance Check

Instrument performance was checked at the frequency required by the methods.

All criteria for the instrument performance check were met.

III. Initial Calibration and Initial Calibration Verification

All criteria for the initial calibration and initial calibration verifications of the method were met.

IV. Continuing Calibration

All criteria for the continuing calibration verifications of the method were met.

V. Laboratory Blanks

Laboratory blanks were performed as required by the methods. No contaminant concentrations were detected in the laboratory blanks reviewed by the ADR software with the exception of two method blanks for metals and one storage blank for explosives. The associated sample results were qualified as non-detected (U) due to laboratory blank contamination as applicable. The sample results that were either not detected or were significantly greater (>5x blank contaminants) than the concentrations found in the associated laboratory blank were not qualified. The details are presented in Enclosure I.

No contaminant concentrations were detected in the initial or continuing calibration blanks with the following exceptions:

SDG/ Method	Laboratory Blank ID	Analyte	Maximum Concentration	Associated Samples
K1701351/ 6020A	ICB/CCB	Antimony Beryllium Lead	0.02 ug/L 0.012 ug/L 0.04 ug/L	FD-020717 FD-020817 FTBL-SB-02-0-0.5-020817 FTBL-SB-02-0.5-2-020817 FTBL-SB-02-4-5.5-020817 FTBL-SB-01D-0-0.5-020717 FTBL-SB-01D-0.5-2-020717 FTBL-SB-01D-4-6-0207017 FTBL-SB-01-0-0.5-020717 FTBL-SB-01-0.5-2-020717 FTBL-SB-01-4-6-020717 FTBL-SB-03-0-0.5-020817 FTBL-SB-03-6-8-020817 FTBL-SB03-28-30-020917

SDG/ Method	Laboratory Blank ID	Analyte	Maximum Concentration	Associated Samples
K1701351/ 6020A	ICB/CCB	Antimony	0.023 ug/L	EB-020717 EB-020817 EB-020917

Sample concentrations were compared to concentrations detected in the laboratory blanks. The sample concentrations were not detected or were significantly greater than the concentrations found in the associated blanks.

VI. Field Blanks

Three equipment blanks were collected and analyzed for explosives and metals. Several equipment blanks had detections for several metals. The associated sample results were not detected or were significantly greater than the concentrations found in the equipment blank, therefore no data were qualified.

VII. Surrogates

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VIII. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

IX. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the exception of one MS/MSD pair for antimony. No data were qualified for MS/MSD %R outside QC limits when the post digestate spike was within QC limits.

X. Triplicate Sample Analysis

Triplicate (TRP) sample analysis was performed on an associated project sample. Results were within QC limits.

XI. Serial Dilution

Serial dilution analysis was performed on an associated project sample. The analysis criteria were met.

XII. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the methods. Percent recoveries (%R) were within QC limits with the exception of one LCS for 2,4-dinitrotoluene. The associated sample results were qualified as non-detected estimated (UJ) as applicable. The

details regarding the qualification of data are provided in Enclosure I.

Standard reference materials (SRM) were analyzed for explosives. Percent recoveries (%R) were within QC limits with the exception of one SRM sample for several explosives. The associated sample results were qualified as detected estimated (J) as applicable. The details regarding the qualification of data are provided in Enclosure I.

XIII. Field Duplicates/Split Duplicate Samples

Two field duplicate pairs were collected and analyzed for explosives and metals. All RPDs were within QC limits with the exception of several metals in one duplicate pair. The associated sample results were qualified as detected estimated (J). The field duplicate result comparisons are provided in Enclosure I.

Samples FTBL-SB-01-0-0.5-020717 and FTBL-SB-01-0-0.5-020717-QA (from SDG FA41143) were identified as split samples. No analytes were detected in any of the split samples with the following exceptions:

Analyte	Concentration (mg/Kg)		RPD (≤50)	Qualifiers
	FTBL-SB-01-0-0.5-020717 (SDG: K1701351)	FTBL-SB-01-0-0.5-020717-QA (SDG: FA41143)		
Antimony	0.295	0.65	75	No Qual
Arsenic	5.48	5.0	9	-
Beryllium	0.898	0.80	12	-
Copper	20.9	42.0	67	J (all detects)
Lead	50.3	50.4	0	-
Nickel	8.88	7.5	17	-
Zinc	57.4	47.1	20	-
Nitrobenzene	0.075U	0.010	153	No Qual

No qualifiers were applied when one or both results were less than 5X the LOQ.

XIV. Compound Quantitation

The laboratory reporting limits were evaluated. All laboratory reporting limits met the specified requirements.

All compounds reported below the LOQ as detected by the laboratory were qualified as detected estimated (J). The details regarding the qualification of data are provided in Enclosure I.

All compound quantitations were within validation criteria with the following exceptions:

SDG/ Method	Sample	Compound	Finding	Criteria	Flag	A or P
K1701351/ 8330B	FTBL-SB-02-0-0.5-020817	4-Amino-2,6-dinitrotoluene	2nd column confirmation was not performed for this compound.	2nd column confirmation should be performed for all detected results	NJ (all detects)	A
K1701351/ 8330B	FTBL-SB-02-4-5.5-020817	2,4,6-Trinitrotoluene 2,4-Dinitrotoluene	2nd column confirmation was not performed for this compound.	2nd column confirmation should be performed for all detected results	NJ (all detects)	A
K1701351/ 8330B	FTBL-SB-01D-0-0.5-020717 FTBL-SB-01-0-0.5-020717	Nitrobenzene	2nd column confirmation was not performed for this compound.	2nd column confirmation should be performed for all detected results	NJ (all detects)	A
K1701351/ 8330B	FTBL-SB-03-0-0.5-020817 FTBL-SB-03-6-8-020817	3-Nitrotoluene	2nd column confirmation was not performed for this compound.	2nd column confirmation should be performed for all detected results	NJ (all detects)	A
K1701351/ 8330B	FTBL-SB03-28-30-020917	Nitroglycerin	2nd column confirmation was not performed for this compound.	2nd column confirmation should be performed for all detected results	NJ (all detects)	A

XV. Overall Assessment of Data

The analysis was conducted within all specifications of the method.

In instances where more than one result was reported for a target analyte, data was qualified as unusable by the validators in order to yield only one complete set of data for a given sample.

Due to LCS and SRM %R, data were qualified as estimated in nine samples.

Due to field duplicate and split duplicate sample RPD, data were qualified as estimated in three samples.

Due to results not being confirmed, data were qualified as presumptive in seven samples.

Due to results reported as detected below the LOQ, data were qualified as estimated in seven samples.

Due to laboratory blank contamination, data were qualified as non-detected in four samples.

The quality control criteria reviewed, as discussed above, were met and are considered acceptable. Sample results that were found to be rejected (R) are unusable for all purposes. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation, all other results are considered valid and usable for all purposes.

Data flags are summarized and are presented as Attachment 2.

Attachment 1

Sample Cross Reference

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
07-Feb-2017	EB-020717	K1701351-016	EB	LP-METALS II	6020A	III
07-Feb-2017	EB-020717	K1701351-016	EB	METHOD	8330B	III
07-Feb-2017	FTBL-SB-01-0-0.5-020717	K1701351-009	N	EPA 3050B	6020A	III
07-Feb-2017	FTBL-SB-01-0-0.5-020717	K1701351-009	N	METHOD	8330B	III
07-Feb-2017	FTBL-SB-01-0.5-2-020717	K1701351-010	N	EPA 3050B	6020A	III
07-Feb-2017	FTBL-SB-01-0.5-2-020717	K1701351-010	N	METHOD	8330B	III
07-Feb-2017	FTBL-SB-01-4-6-020717	K1701351-011	N	EPA 3050B	6020A	III
07-Feb-2017	FTBL-SB-01-4-6-020717	K1701351-011	N	METHOD	8330B	III
07-Feb-2017	FD-020717	K1701351-001	FD	EPA 3050B	6020A	III
07-Feb-2017	FD-020717	K1701351-001	FD	METHOD	8330B	III
07-Feb-2017	FD-020817	K1701351-002	FD	EPA 3050B	6020A	III
07-Feb-2017	FD-020817	K1701351-002	FD	METHOD	8330B	III
07-Feb-2017	FD-020717MS	KQ1701775-03MS	MS	EPA 3050B	6020A	III
07-Feb-2017	FD-020717MSD	KQ1701775-04SD	MSD	EPA 3050B	6020A	III
07-Feb-2017	FD-020717REP1	KWG1701417-1	REP	METHOD	8330B	III
07-Feb-2017	FD-020717REP2	KWG1701417-2	REP	METHOD	8330B	III
07-Feb-2017	FD-020717MS	KWG1701417-3	MS	METHOD	8330B	III
07-Feb-2017	FD-020717MSD	KWG1701417-4	MSD	METHOD	8330B	III
07-Feb-2017	FTBL-SB-01D-0-0.5-020717	K1701351-006	N	EPA 3050B	6020A	III
07-Feb-2017	FTBL-SB-01D-0-0.5-020717	K1701351-006	N	METHOD	8330B	III
07-Feb-2017	FTBL-SB-01D-0.5-2-020717	K1701351-007	N	EPA 3050B	6020A	III
07-Feb-2017	FTBL-SB-01D-0.5-2-020717	K1701351-007	N	METHOD	8330B	III
07-Feb-2017	FTBL-SB-01D-4-6-020717	K1701351-008	N	EPA 3050B	6020A	III
07-Feb-2017	FTBL-SB-01D-4-6-020717	K1701351-008	N	METHOD	8330B	III
08-Feb-2017	FTBL-SB-02-0-0.5-020817	K1701351-003	N	EPA 3050B	6020A	III
08-Feb-2017	FTBL-SB-02-0-0.5-020817	K1701351-003	N	METHOD	8330B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Feb-2017	FTBL-SB-02-0.5-2-020817	K1701351-004	N	EPA 3050B	6020A	III
08-Feb-2017	FTBL-SB-02-0.5-2-020817	K1701351-004	N	METHOD	8330B	III
08-Feb-2017	FTBL-SB-02-4-5.5-020817	K1701351-005	N	EPA 3050B	6020A	IV
08-Feb-2017	FTBL-SB-02-4-5.5-020817	K1701351-005	N	METHOD	8330B	IV
08-Feb-2017	FTBL-SB-03-0-0.5-020817	K1701351-012	N	EPA 3050B	6020A	III
08-Feb-2017	FTBL-SB-03-0-0.5-020817	K1701351-012	N	METHOD	6850	III
08-Feb-2017	FTBL-SB-03-0-0.5-020817	K1701351-012	N	METHOD	8330B	III
08-Feb-2017	FTBL-SB-03-0-0.5-MS	KQ1701598-01MS	MS	METHOD	6850	III
08-Feb-2017	FTBL-SB-03-0-0.5-MSD	KQ1701598-02SD	MSD	METHOD	6850	III
08-Feb-2017	FTBL-SB-03-6-8-020817	K1701351-013	N	EPA 3050B	6020A	IV
08-Feb-2017	FTBL-SB-03-6-8-020817	K1701351-013	N	METHOD	6850	IV
08-Feb-2017	FTBL-SB-03-6-8-020817	K1701351-013	N	METHOD	8330B	III
08-Feb-2017	EB-020817	K1701351-017	EB	LP-METALS II	6020A	III
08-Feb-2017	EB-020817	K1701351-017	EB	METHOD	8330B	III
09-Feb-2017	FTBL-SB03-28-30-020917	K1701351-015	N	EPA 3050B	6020A	III
09-Feb-2017	FTBL-SB03-28-30-020917	K1701351-015	N	METHOD	8330B	III
09-Feb-2017	EB-020917	K1701351-018	EB	LP-METALS II	6020A	III
09-Feb-2017	EB-020917	K1701351-018	EB	METHOD	8330B	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation
N = Normal Sample
FD = Field Duplicate
TB = Trip Blank
FB = Field Blank
MS = Matrix Spike
MSD = Matrix Spike Duplicate

Attachment 2

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: K1701351 **Laboratory: ALS_K**

EDD Filename: K1701351_SEDD2A_rev **eQAPP Name: Arcadis_FtBliss_ALS_170316**

Method Category: METALS

Method: 6020A **Matrix: Soil**

Sample ID: FD-020817 **Collected:** 2/7/2017 12:00:00 PM **Analysis Type:** Initial **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	5.33	=	0.024	LOD	0.048	LOQ	mg/Kg	J	Fd
COPPER	60.2	=	0.097	LOD	0.097	LOQ	mg/Kg	J	Fd
LEAD	476	=	0.048	LOD	0.048	LOQ	mg/Kg	J	Fd

Sample ID: FTBL-SB-01-0-0.5-020717 **Collected:** 2/7/2017 9:55:00 AM **Analysis Type:** Initial **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	20.9	=	0.097	LOD	0.097	LOQ	mg/Kg	J	Fd

Sample ID: FTBL-SB-02-0.5-2-020817 **Collected:** 2/8/2017 8:30:00 AM **Analysis Type:** Initial **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	1.01	=	0.025	LOD	0.049	LOQ	mg/Kg	J	Fd
COPPER	13.5	=	0.098	LOD	0.098	LOQ	mg/Kg	J	Fd
LEAD	41.2	=	0.049	LOD	0.049	LOQ	mg/Kg	J	Fd

Method Category: METALS

Method: 6020A **Matrix: Water**

Sample ID: EB-020717 **Collected:** 2/7/2017 8:00:00 AM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	0.09	J	0.05	LOD	0.20	LOQ	ug/L	U	Mb

Sample ID: EB-020817 **Collected:** 2/8/2017 5:00:00 PM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	0.10	J	0.05	LOD	0.20	LOQ	ug/L	U	Mb

Sample ID: EB-020917 **Collected:** 2/9/2017 5:00:00 PM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	0.47	J	0.50	LOD	0.50	LOQ	ug/L	J	RI
COPPER	0.23	=	0.05	LOD	0.10	LOQ	ug/L	U	Mb
NICKEL	0.11	J	0.05	LOD	0.20	LOQ	ug/L	U	Mb

* denotes a non-reportable result

Project Name and Number: 06261038.0001.00400 - Castner Range

Data Qualifier Summary

Lab Reporting Batch ID: K1701351 **Laboratory: ALS_K**

EDD Filename: K1701351_SEDD2A_rev **eQAPP Name: Arcadis_FtBliss_ALS_170316**

Method Category: METALS
Method: 6020A ***Matrix:*** Water

Method Category: SVOA
Method: 8330B ***Matrix:*** Soil

Sample ID: FTBL-SB-01-0-0.5-020717 ***Collected:*** 2/7/2017 9:55:00 AM ***Analysis Type:*** Initial ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NITROBENZENE	0.010	JN	0.020	LOD	0.080	LOQ	mg/Kg	NJ	RI, Lcs, ProfJudg

Sample ID: FTBL-SB-01D-0-0.5-020717 ***Collected:*** 2/7/2017 2:05:00 PM ***Analysis Type:*** Initial ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NITROBENZENE	0.011	JN	0.020	LOD	0.079	LOQ	mg/Kg	NJ	RI, Lcs, ProfJudg

Sample ID: FTBL-SB-02-0-0.5-020817 ***Collected:*** 2/8/2017 8:15:00 AM ***Analysis Type:*** Initial ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-Amino-2,6-Dinitrotoluene	0.011	JN	0.021	LOD	0.081	LOQ	mg/Kg	NJ	RI, ProfJudg

Sample ID: FTBL-SB-02-4-5.5-020817 ***Collected:*** 2/8/2017 9:20:00 AM ***Analysis Type:*** Initial ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,6-TRINITROTOLUENE	0.029	JN	0.041	LOD	0.081	LOQ	mg/Kg	NJ	RI, Lcs, ProfJudg
2,4-DINITROTOLUENE	0.057	JN	0.081	LOD	0.081	LOQ	mg/Kg	NJ	RI, Lcs, ProfJudg

Sample ID: FTBL-SB-03-0-0.5-020817 ***Collected:*** 2/8/2017 1:45:00 PM ***Analysis Type:*** Initial1 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3-NITROTOLUENE	0.019	JN	0.040	LOD	0.080	LOQ	mg/Kg	NJ	RI, Lcs, ProfJudg
NITROGLYCERIN	2.2	=	0.20	LOD	0.20	LOQ	mg/Kg	J	Lcs

Sample ID: FTBL-SB-03-0-0.5-020817 ***Collected:*** 2/8/2017 1:45:00 PM ***Analysis Type:*** Initial2 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NITROGLYCERIN	2.0	=	0.20	LOD	0.20	LOQ	mg/Kg	R	ProfJudg

* denotes a non-reportable result

Project Name and Number: 06261038.0001.00400 - Castner Range

Data Qualifier Summary

Lab Reporting Batch ID: K1701351 **Laboratory: ALS_K**

EDD Filename: K1701351_SEDD2A_rev **eQAPP Name: Arcadis_FtBliss_ALS_170316**

Method Category: SVOA

Method: 8330B **Matrix: Soil**

***Sample ID:*FTBL-SB03-28-30-020917** ***Collected:*2/9/2017 9:30:00 AM** ***Analysis Type:*Initial** ***Dilution:* 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NITROGLYCERIN	0.092	JN	0.21	LOD	0.21	LOQ	mg/Kg	UJ	Lcs, Mb, ProfJudg

***Sample ID:*FTBL-SB-03-6-8-020817** ***Collected:*2/8/2017 2:45:00 PM** ***Analysis Type:*Initial** ***Dilution:* 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3-NITROTOLUENE	0.020	JN	0.041	LOD	0.081	LOQ	mg/Kg	NJ	RI, Lcs, ProfJudg
RDX	0.074	JC	0.21	LOD	0.21	LOQ	mg/Kg	J	RI

Method Category: SVOA

Method: 8330B **Matrix: Water**

***Sample ID:*EB-020717** ***Collected:*2/7/2017 8:00:00 AM** ***Analysis Type:*Initial/TOT** ***Dilution:* 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROTOLUENE	0.20	U	0.20	LOD	0.20	LOQ	ug/L	UJ	Lcs

***Sample ID:*EB-020817** ***Collected:*2/8/2017 5:00:00 PM** ***Analysis Type:*Initial/TOT** ***Dilution:* 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROTOLUENE	0.20	U	0.20	LOD	0.20	LOQ	ug/L	UJ	Lcs

***Sample ID:*EB-020917** ***Collected:*2/9/2017 5:00:00 PM** ***Analysis Type:*Initial/TOT** ***Dilution:* 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROTOLUENE	0.20	U	0.20	LOD	0.20	LOQ	ug/L	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: 06261038.0001.00400 - Castner Range

Data Qualifier Summary

Lab Reporting Batch ID: K1701351 **Laboratory: ALS_K**

EDD Filename: K1701351_SEDD2A_rev **eQAPP Name: Arcadis_FtBliss_ALS_170316**

Reason Code Legend

Reason Code	*Description*
Fd	Field Duplicate Precision
Lcs	Laboratory Control Spike Lower Estimation
Lcs	Laboratory Control Spike Upper Estimation
Mb	Method Blank Contamination
Ms	Matrix Spike Lower Estimation
ProfJudg	Professional Judgment
RI	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: 06261038.0001.00400 - Castner Range

Enclosure I

Level III ADR Outliers

(Including Manual Review Outliers)

Quality Control Outlier Reports

K1701351

Method Blank Outlier Report

Lab Reporting Batch ID: K1701351 **Laboratory: ALS_K**

EDD Filename: K1701351_SEDD2A **eQAPP Name: Arcadis_FtBliss_ALS_170316**

Method: 6020A
Matrix: Soil

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
KQ1701775-01	2/24/2017 11:52:00 AM	BERYLLIUM NICKEL ZINC	0.006 mg/Kg 0.03 mg/Kg 0.27 mg/Kg	FD-020717 FD-020817 FTBL-SB-01-0.5-2-020717 FTBL-SB-01-0-0.5-020717 FTBL-SB-01-4-6-020717 FTBL-SB-01D-0.5-2-020717 FTBL-SB-01D-0-0.5-020717 FTBL-SB-01D-4-6-020717 FTBL-SB-02-0.5-2-020817 FTBL-SB-02-0-0.5-020817 FTBL-SB-02-4-5.5-020817 FTBL-SB-03-0-0.5-020817 FTBL-SB03-28-30-020917 FTBL-SB-03-6-8-020817

Method: 6020A
Matrix: Water

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
KQ1701660-01	2/27/2017 7:03:00 AM	ANTIMONY COPPER NICKEL	0.006 ug/L 0.05 ug/L 0.03 ug/L	EB-020717 EB-020817 EB-020917

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB-020717(Initial/TOT)	NICKEL	0.09 ug/L	0.09U ug/L
EB-020817(Initial/TOT)	NICKEL	0.10 ug/L	0.10U ug/L
EB-020917(Initial/TOT)	COPPER	0.23 ug/L	0.23U ug/L
EB-020917(Initial/TOT)	NICKEL	0.11 ug/L	0.11U ug/L

Method: 8330B
Matrix: Soil

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
KWG1701417-7	3/2/2017 4:13:00 PM	NITROGLYCERIN	0.070 mg/Kg	FD-020717 FD-020817 FTBL-SB-01-0.5-2-020717 FTBL-SB-01-0-0.5-020717 FTBL-SB-01-4-6-020717 FTBL-SB-01D-0.5-2-020717 FTBL-SB-01D-0-0.5-020717 FTBL-SB-01D-4-6-020717 FTBL-SB-02-0.5-2-020817 FTBL-SB-02-0-0.5-020817 FTBL-SB-02-4-5.5-020817 FTBL-SB-03-0-0.5-020817 FTBL-SB03-28-30-020917 FTBL-SB-03-6-8-020817

Project Name and Number: 06261038.0001.00400 - Castner Range

Method Blank Outlier Report

Lab Reporting Batch ID: K1701351 **Laboratory: ALS_K**

EDD Filename: K1701351_SEDD2A **eQAPP Name: Arcadis_FtBliss_ALS_170316**

Method: **8330B**
Matrix: **Soil**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
FTBL-SB03-28-30-020917(Initial)	NITROGLYCERIN	0.092 mg/Kg	0.092U mg/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: K1701351 **Laboratory: ALS_K**

EDD Filename: K1701351_SEDD2A **eQAPP Name: Arcadis_FtBliss_ALS_170316**

Method: **6020A**
Matrix: **Soil**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
FD-020717MS (Dry) FD-020717MSD (Dry) (FD-020717)	ANTIMONY	37	39	72.00-124.00	-	ANTIMONY	No Qual, Post Spike = 106%

Project Name and Number: 06261038.0001.00400 - Castner Range

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: K1701351 **Laboratory: ALS_K**

EDD Filename: K1701351_SEDD2A **eQAPP Name: Arcadis_FtBliss_ALS_170316**

Method: 8330B
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
KWG1701417-5 (FD-020717 FD-020817 FTBL-SB-01-0.5-2-020717 FTBL-SB-01-0-0.5-020717 FTBL-SB-01-4-6-020717 FTBL-SB-01D-0.5-2-020717 FTBL-SB-01D-0-0.5-020717 FTBL-SB-01D-4-6-020717 FTBL-SB-02-0.5-2-020817 FTBL-SB-02-0-0.5-020817 FTBL-SB-02-4-5.5-020817 FTBL-SB-03-0-0.5-020817 FTBL-SB03-28-30-020917 FTBL-SB-03-6-8-020817)	1,3,5-TRINITROBENZENE	130	-	80.00-116.00	-	1,3,5-TRINITROBENZENE	J(all detects)
	1,3-DINITROBENZENE	133	-	73.00-119.00	-	1,3-DINITROBENZENE	
	2,4,6-TRINITROTOLUENE	133	-	71.00-120.00	-	2,4,6-TRINITROTOLUENE	
	2,4-DINITROTOLUENE	133	-	75.00-121.00	-	2,4-DINITROTOLUENE	
	2,6-DINITROTOLUENE	146	-	79.00-117.00	-	2,6-DINITROTOLUENE	
	2-AMINO-4,6-DINITROTOLUENE	130	-	71.00-123.00	-	2-AMINO-4,6-DINITROTOLUENE	
	2-NITROTOLUENE	135	-	70.00-124.00	-	2-NITROTOLUENE	
	3-NITROTOLUENE	136	-	67.00-129.00	-	3-NITROTOLUENE	
	4-NITROTOLUENE	131	-	71.00-124.00	-	4-NITROTOLUENE	
	HMX	134	-	74.00-124.00	-	HMX	
	NITROBENZENE	133	-	67.00-129.00	-	NITROBENZENE	
	NITROGLYCERIN	130	-	73.00-124.00	-	NITROGLYCERIN	

Method: 8330B
Matrix: Water

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
KWG1701217-1 (EB-020717 EB-020817 EB-020917)	2,4-DINITROTOLUENE	76	-	78.00-120.00	-	2,4-DINITROTOLUENE	J (all detects) UJ (all non-detects)

Project Name and Number: 06261038.0001.00400 - Castner Range

Field Duplicate RPD Report

Lab Reporting Batch ID: K1701351 **Laboratory: ALS_K**

EDD Filename: K1701351_SEDD2A **eQAPP Name: Arcadis_FtBliss_ALS_170316**

Method: 6020A
Matrix: Soil

Analyte	Concentration (mg/Kg) FTBL-SB-02-0.5-2-020817	Concentration (mg/Kg) FD-020817	Sample RPD	eQAPP RPD	Flag
ANTIMONY	1.01	5.33	136**	50.00	
ARSENIC	5.99	6.44	7	50.00	No Qualifiers Applied
BERYLLIUM	1.46	1.34	9	50.00	
COPPER	13.5	60.2	127**	50.00	** Sb, Cu, Pb
LEAD	41.2	476	168**	50.00	J (all detects)
NICKEL	8.82	6.85	25	50.00	
ZINC	39.7	66.1	50	50.00	

Analyte	Concentration (mg/Kg) FTBL-SB-01-0-0.5-020717	Concentration (mg/Kg) FD-020717	Sample RPD	eQAPP RPD	Flag
ANTIMONY	0.295	0.242	20	50.00	
ARSENIC	5.48	4.88	12	50.00	
BERYLLIUM	0.898	0.988	10	50.00	
COPPER	20.9	14.6	35	50.00	No Qualifiers Applied
LEAD	50.3	31.8	45	50.00	
NICKEL	8.88	7.90	12	50.00	
ZINC	57.4	42.8	29	50.00	

Method: 8330B
Matrix: Soil

Analyte	Concentration (mg/Kg) FTBL-SB-01-0-0.5-020717	Concentration (mg/Kg) FD-020717	Sample RPD	eQAPP RPD	Flag
NITROBENZENE	0.010	0.021 U	71	50.00	No Qualifiers Applied

Project Name and Number: 06261038.0001.00400 - Castner Range

Reporting Limit Outliers

Lab Reporting Batch ID: K1701351 **Laboratory: ALS_K**

EDD Filename: K1701351_SEDD2A **eQAPP Name: Arcadis_FtBliss_ALS_170316**

Method: 8330B

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
FTBL-SB-01-0-0.5-020717	NITROBENZENE	JN	0.010	0.080	LOQ	mg/Kg	J (all detects)
FTBL-SB-01D-0-0.5-020717	NITROBENZENE	JN	0.011	0.079	LOQ	mg/Kg	J (all detects)
FTBL-SB-02-0-0.5-020817	4-Amino-2,6-Dinitrotoluene	JN	0.011	0.081	LOQ	mg/Kg	J (all detects)
FTBL-SB-02-4-5.5-020817	2,4,6-TRINITROTOLUENE 2,4-DINITROTOLUENE	JN JN	0.029 0.057	0.081 0.081	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
FTBL-SB-03-0-0.5-020817	3-NITROTOLUENE	JN	0.019	0.080	LOQ	mg/Kg	J (all detects)
FTBL-SB03-28-30-020917	NITROGLYCERIN	JN	0.092	0.21	LOQ	mg/Kg	J (all detects)
FTBL-SB-03-6-8-020817	3-NITROTOLUENE RDX	JN JC	0.020 0.074	0.081 0.21	LOQ LOQ	mg/Kg mg/Kg	J (all detects)

Method: 6020A

Matrix: Water

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-020717	NICKEL	J	0.09	0.20	LOQ	ug/L	J (all detects)
EB-020817	NICKEL	J	0.10	0.20	LOQ	ug/L	J (all detects)
EB-020917	ARSENIC NICKEL	J J	0.47 0.11	0.50 0.20	LOQ LOQ	ug/L ug/L	J (all detects)

LDC #: 38389A4a
SDG #: K1701351
Laboratory: ALS Environmental

VALIDATION COMPLETENESS WORKSHEET

ADR IV

Date: 4/10/17
Page: 1 of 2
Reviewer: AL
2nd Reviewer: KR

METHOD: Metals (EPA SW 846 Method 6020A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	— /N	Not reviewed for ADR validation.
II.	ICP/MS Tune	A	
III.	Instrument Calibration	A	
IV.	ICP Interference Check Sample (ICS) Analysis	A	
V.	Laboratory Blanks	SW	ICB/CCB only
VI.	Field Blanks	—	Not reviewed for ADR validation. EB=15,16,17
VII.	Matrix Spike/Matrix Spike Duplicates	A	Not reviewed for ADR validation. 18/19: Sb MS in, noqual
VIII.	Duplicate sample analysis	—	Not reviewed for ADR validation.
IX.	Serial Dilution	A	
X.	Laboratory control samples	A	Not reviewed for ADR validation. (from FAM1143)
XI.	Field Duplicates	SW	Not reviewed for ADR validation. Split=(9, FTBL-SB-01-0-0.5-020717QA)
XII.	Internal Standard (ICP-MS)	A	
XIII.	Sample Result Verification	—	Not reviewed for ADR validation.
XIV	Overall Assessment of Data	—	Not reviewed for ADR validation.

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

** Indicates sample was underwent Level IV review

	Client ID	Lab ID	Matrix	Date
1	FD-020717	K1701351-001	Soil	02/07/17
2	FD-020817	K1701351-002	Soil	02/08/17
3	FTBL-SB-02-0-0.5-020817	K1701351-003	Soil	02/08/17
4	FTBL-SB-02-0.5-2-020817	K1701351-004	Soil	02/08/17
5	FTBL-SB-02-4-5.5-020817**	K1701351-005**	Soil	02/08/17
6	FTBL-SB-01D-0-0.5-020717	K1701351-006	Soil	02/07/17
7	FTBL-SB-01D-0.5-2-020717	K1701351-007	Soil	02/07/17
8	FTBL-SB-01D-4-6-020717	K1701351-008	Soil	02/07/17
9	FTBL-SB-01-0-0.5-020717	K1701351-009	Soil	02/07/17
10	FTBL-SB-01-0.5-2-020717	K1701351-010	Soil	02/07/17
11	FTBL-SB-01-4-6-020717	K1701351-011	Soil	02/07/17
12	FTBL-SB-03-0-0.5-020817	K1701351-012	Soil	02/08/17
13	FTBL-SB-03-6-8-020817**	K1701351-013**	Soil	02/08/17
14	FTBL-SB03-28-30-020917	K1701351-015	Soil	02/09/17
15	EB-020717	K1701351-016	Water	02/07/17

LDC #: 38389A4a
SDG #: K1701351
Laboratory: ALS Environmental

VALIDATION COMPLETENESS WORKSHEET
ADR/IV

Date: 4/10/17

Reviewer: ar
2nd Reviewer: KK

METHOD: Metals (EPA SW 846 Method 6020A)

	Client ID	Lab ID	Matrix	Date
16	EB-020817	K1701351-017	Water	02/08/17
17	EB-020917	K1701351-018	Water	02/09/17
18	FD-020717MS	K1701351-001MS	Soil	02/07/17
19	FD-020717MSD	K1701351-001MSD	Soil	02/07/17
20				
21				
22				
23				
24				

Notes:

LDC #: 38389A4a

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: AC
2nd Reviewer: KK

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000) Soil preparation factor applied: 100x x 5xdil
Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: All Soil

				Sample Identification										
Analyte	**Maximum PB[a] (mg/Kg)**	**Maximum ICB/CCB[a] (ug/L)**	**Action Level**	**No qualifiers (>5x)**										
Sb		0.02	0.05											
Be		0.012	0.03											
Pb		0.04	0.1											

Sample Concentration units, unless otherwise noted: ug/L Associated Samples: All water

				Sample Identification										
Analyte	**Maximum PB[a] (mg/Kg)**	**Maximum ICB/CCB[a] (ug/L)**	**Action Level**	**No qualifiers (>5x)**										
Sb		0.023	0.115											

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".
Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

LDC#: 38389A4a

VALIDATION FINDINGS WORKSHEET

~~Field~~ Duplicates

Split

Reviewer: C

2nd Reviewer: KR

METHOD: Metals (EPA Method 6010B/7000)

Analyte	Concentration (mg/Kg)		RPD (≤50)	Qualifiers (Parent Only)
	9	FTBL-SB-01-0-0.5-020717 QA		
Antimony	0.295	0.65	75	NQ
Arsenic	5.48	5.0	9	
Beryllium	0.898	0.80	12	
Copper	20.9	42.0	67	Jdet/A
Lead	50.3	50.4	0	
Nickel	8.88	7.5	17	
Zinc	57.4	47.1	20	

\\LDCFILESERVER\Validation\FIELD DUPLICATES\FD_inorganic\38389A4a.wpd

NQ = no qualifier because one or both results are <LOQ

LDC #: 38389A40 **VALIDATION COMPLETENESS WORKSHEET** Date: 4/12/17
SDG #: K1701351 ADR/~~IX~~ Page: 1 of 2
Laboratory: ALS Environmental Reviewer: Q
2nd Reviewer: RW

METHOD: HPLC Explosives (EPA SW 846 Method 8330B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A	
II.	Initial calibration/ICV	A/A	
III.	Continuing calibration	A	
IV.	Laboratory Blanks	N	Not reviewed for ADR validation.
V.	Field blanks	ND	EB=15-17
VI.	Surrogate spikes	N	Not reviewed for ADR validation.
VII.	Matrix spike/Matrix spike duplicates		Not reviewed for ADR validation.
VIII.	Laboratory control samples		Not reviewed for ADR validation.
IX.	Field duplicates	SW	D=1+9.2+4. 9+FTBL-SB-01-0-0.5-020717(QA)
X.	Compound quantitation RL/LOQ/LODs	SW	Not reviewed for ADR validation.
XI.	Target compound identification	N	Not reviewed for ADR validation.
XII.	Overall assessment of data		Not reviewed for ADR validation.

Note: A = Acceptable ND = No compounds detected D = Duplicate SB=Source blank
N = Not provided/applicable R = Rinsate TB = Trip blank OTHER:
SW = See worksheet FB = Field blank EB = Equipment blank
** Indicates sample was underwent Level IV review

	Client ID	Lab ID	Matrix	Date
1	FD-020717	K1701351-001	Soil	02/07/17
2	FD-020817	K1701351-002	Soil	02/08/17
3	FTBL-SB-02-0-0.5-020817	K1701351-003	Soil	02/08/17
4	FTBL-SB-02-0.5-2-020817	K1701351-004	Soil	02/08/17
5	FTBL-SB-02-4-5.5-020817**	K1701351-005**	Soil	02/08/17
6	FTBL-SB-01D-0-0.5-020717	K1701351-006	Soil	02/07/17
7	FTBL-SB-01D-0.5-2-020717	K1701351-007	Soil	02/07/17
8	FTBL-SB-01D-4-6-020717	K1701351-008	Soil	02/07/17
9	FTBL-SB-01-0-0.5-020717	K1701351-009	Soil	02/07/17
10	FTBL-SB-01-0.5-2-020717	K1701351-010	Soil	02/07/17
11	FTBL-SB-01-4-6-020717	K1701351-011	Soil	02/07/17
12	FTBL-SB-03-0-0.5-020817	K1701351-012	Soil	02/08/17
13	FTBL-SB-03-6-8-020817**	K1701351-013**	Soil	02/08/17
14	FTBL-SB03-28-30-020917	K1701351-015	Soil	02/09/17
15	EB-020717	K1701351-016	Water	02/07/17
16	EB-020817	K1701351-017	Water	02/08/17

LDC #: 38389A40
SDG #: K1701351
Laboratory: ALS Environmental

VALIDATION COMPLETENESS WORKSHEET
ADR/IV

Date: 4/12/17
Page: 1 of 1
Reviewer: [signature]
2nd Reviewer: KR

METHOD: HPLC Explosives (EPA SW 846 Method 8330B)

	Client ID	Lab ID	Matrix	Date
17	EB-020917	K1701351-018	Water	02/09/17
18	FD-020717MS	K1701351-001MS	Soil	02/07/17
19	FD-020717MSD	K1701351-001MSD	Soil	02/07/17
20	FD-020717DUP	K1701351-001DUP	Soil	02/07/17
21	FD-020717TRP	K1701351-001TRP	Soil	02/07/17
22				
23				
24				
25				
26				

Notes:

VALIDATION FINDINGS WORKSHEET

METHOD: ____GC ____HPLC

8310	8330	8151	8141	8141 (Con't)	8021B
A. Acenaphthene	A. HMX	A. 2,4-D	A. Dichlorvos	V. Fensulfothion	V. Benzene
B. Acenaphthylene	B. RDX	B. 2,4-DB	B. Mevinphos	W. Bolstar	CC. Toluene
C. Anthracene	C. 1,3,5-Trinitrobenzene	C. 2,4,5-T	C. Demeton-O	X. EPN	EE. Ethylbenzene
D. Benzo(a)anthracene	D. 1,3-Dinitrobenzene	D. 2,4,5-TP	D. Demeton-S	Y. Azinphos-methyl	SSS. o-Xylene
E. Benzo(a)pyrene	E. Tetryl	E. Dinoseb	E. Ethoprop	Z. Coumaphos	RRR. m,p-Xylenes
F. Benzo(b)fluoranthene	F. Nitrobenzene	F. Dichlorprop	F. Naled	AA. Parathion	GG. Total xylenes
G. Benzo(g,h,i)perylene	G. 2.4.6-Trinitrotoluene	G. Dicamba	G. Sulfotepp	BB. Famphur	
H. Benzo(k)fluoranthene	H. 4-Amino-2,6-dinitrotoluene	H. Dalapon	H. Phorate	CC. Phosmet	
I. Chrysene	I. 2-Amino-4,6-dinitrotoluene	I. MCPP	I. Dimethoate	DD. Trifluralin	
J. Dibenz(a,h)anthracene	J. 2,4-Dinitrotolune	J. MCPA	J. Diazinon	EE. Def	
K. Fluoranthene	K. 2,6-Dinitrotoluene	K. Pentachlorophenol	K. Disulfoton	FF. Prowl	Krone
L. Fluorene	L. 2-Nitrotoluene	L.. 2,4,5-TP (silvex)	L. Parathion-methyl	GG. Ethion	A. Tetra-n-butyltin
M. Indeno(1,2,3-cd)pyrene	M. 3-Nitrotoluene	M. Silvex	M. Ronnel	HH. Tetrachlorvinphos	B. Tri-n-butyltin Cation
N. Naphthalene	N. 4-Nitrotoluene		N. Malathion	II. Sulprofos	C. Di-n-butyltin Cation
O. Phenanthrene	O.Nitroglycerin		O. Chlorpyrifos		D. N-Butyltin Cation
P. Pyrene	P.Picric acid		P. Fenthion		
Q.	Q.		Q. Parathion-ethyl		
R.	R.		R. Trichloronate		
S.			S. Merphos		
			T. Stirophos		
			U. Tokuthion		

Notes:_____

LDC#: 38389A40

VALIDATION FINDINGS WORKSHEET
Split Duplicates

Reviewer: Q
2nd Reviewer: KK

METHOD: HPLC Explosives (EPA SW 846 Method 8330B)

Compound	Concentration (mg/kg)		RPD (≤ 20)
	FTBL-SB-01-0-0.5-020717 (QA)	FTBL-SB-01-0-0.5-020717	
Nitrobenzene ~~Nitrobenzene~~	0.075U	0.010	153 (NQ < 5XRL)

Field Duplicates

Compound	Concentration (mg/kg)		RPD (≤ 20)
	1	9	
Nitrobenzene ~~Nitrobenzene~~	0.021 U	0.010	71 (NQ < 5XRL)

V:\FIELD DUPLICATES\38389A40.wpd

LDC #: 38389A40

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and Reported CRQLs

Page: 1 of 1
Reviewer: 9
2nd Reviewer: KK

METHOD: ___ GC / HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Level IV/D Only

Y N N/A Were CRQLs adjusted for sample dilutions, dry weight factors, etc.?
Y N N/A Did the reported results for detected target compounds agree within 10.0% of the recalculated results?
Y N N/A Did the relative percent differences of detected compounds between two columns/detectors ≤40%?
If no, please see findings bellow.

#	Compound Name	Sample ID	%RPD Between Two Columns/Detectors Limit (≤ 40%)	Qualifications
	H	3	No confirmation	NJdets / A
	G, J	5		
	J			
	F	6, 9		NJdets / A
	M,	12		
	M	13		
	O	~~5~~ 14		

Comments: See sample calculation verification worksheet for recalculations

LDC #: 38389A87 **VALIDATION COMPLETENESS WORKSHEET** Date: 4/12/17
SDG #: K1701351 ADR/~~W~~ Page: 1 of 1
Laboratory: ALS Environmental Reviewer: Q
2nd Reviewer: KK

METHOD: LC/MS Perchlorate (EPA SW846 Method 6850)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	~~A~~/N	Not reviewed for ADR validation.
II.	GC/MS Instrument performance check	N	
III.	Initial calibration/ICV	~~A~~/A	RSD≤15%. ICV≤15%
IV.	Continuing calibration	~~A~~	CCV≤15%
V.	Laboratory Blanks	N	Not reviewed for ADR validation.
VI.	Field blanks		
VII.	Surrogate spikes		Not reviewed for ADR validation.
VIII.	Matrix spike/Matrix spike duplicates		Not reviewed for ADR validation.
IX.	Laboratory control samples		Not reviewed for ADR validation.
X.	Field duplicates		
XI.	Internal standards	~~A~~	Not reviewed for ADR validation.
XII.	Compound quantitation RL/LOQ/LODs	N	Not reviewed for ADR validation.
XIII.	Target compound identification		Not reviewed for ADR validation.
XIV.	System performance		Not reviewed for ADR validation.
XV.	Overall assessment of data		Not reviewed for ADR validation.

Note: A = Acceptable ND = No compounds detected D = Duplicate SB=Source blank
N = Not provided/applicable R = Rinsate TB = Trip blank OTHER:
SW = See worksheet FB = Field blank EB = Equipment blank
** Indicates sample was underwent Level IV review

	Client ID	Lab ID	Matrix	Date
1	FTBL-SB-03-0-0.5-020817	K1701351-012	Soil	02/08/17
2	FTBL-SB-03-6-8-020817**	K1701351-013**	Soil	02/08/17
3	FTBL-SB-03-0-0.5-020817MS	K1701351-012MS	Soil	02/08/17
4	FTBL-SB-03-0-0.5-020817MSD	K1701351-012MSD	Soil	02/08/17
5				
6				
7				
8				

Notes:

Enclosure II

Level IV Data Validation Reports

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Fort Bliss, Castner Range

LDC Report Date: April 11, 2017

Parameters: Metals

Validation Level: Level IV

Laboratory: ALS Environmental

Sample Delivery Group (SDG): K1701351

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
FTBL-SB-02-4-5.5-020817	K1701351-005	Soil	02/08/17
FTBL-SB-03-6-8-020817	K1701351-013	Soil	02/08/17

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with the Final Quality Assurance Project Plan, Military Munitions Response Program Remedial Investigation, Closed Castner Firing Range, Fort Bliss, El Paso, Texas (February 2015), the U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.0 (July 2013), and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines (CLPNFG) for Inorganic Superfund Data Review (October 2004). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Antimony, Arsenic, Beryllium, Copper, Lead, Nickel, and Zinc by Environmental Protection Agency (EPA) SW 846 Method 6020A

All sample results were subjected to Level IV evaluation, which is comprised of the quality control (QC) summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers:

J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.

U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the analyte should be considered non-detect at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.

NJ (Presumptive): Presumptive evidence of presence of the compound at an estimated quantity.

NA (Not applicable): Data did not warrant qualification since detected results only are affected and the compound was not detected in the associated samples.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

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I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. ICPMS Tune

The mass calibration was within 0.1 AMU and the percent relative standard deviation (%RSD) was less than or equal to 5%.

III. Instrument Calibration

Initial and continuing calibrations were performed as required by the method.

The initial calibration verification (ICV) and continuing calibration verification (CCV) standards were within QC limits.

IV. ICP Interference Check Sample Analysis

The frequency of interference check sample (ICS) analysis was met. All criteria were within QC limits.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks with the following exceptions:

Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Beryllium Nickel Zinc	0.006 mg/Kg 0.03 mg/Kg 0.27 mg/Kg	All samples in SDG K1701351
ICB/CCB	Antimony Beryllium Lead	0.02 ug/L 0.012 ug/L 0.04 ug/L	All samples in SDG K1701351

Data qualification by the laboratory blanks was based on the maximum contaminant concentration in the laboratory blanks in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated laboratory blanks.

VI. Field Blanks

Sample EB-020817 was identified as an equipment blank. No contaminants were found with the following exceptions:

Blank ID	Collection Date	Analyte	Concentration	Associated Samples
EB-020817	02/08/17	Antimony Copper Lead Nickel Zinc	0.351 ug/L 0.28 ug/L 1.09 ug/L 0.10 ug/L 1.01 ug/L	All samples in SDG K1701351

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated field blanks.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

VIII. Duplicate Sample Analysis

The laboratory has indicated that there were no duplicate (DUP) analyses specified for the samples in this SDG, and therefore duplicate analyses were not performed for this SDG.

IX. Serial Dilution

Serial dilution analysis was performed on an associated project sample. Percent differences (%D) were within QC limits.

X. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

XI. Field Duplicates

No field duplicates were identified in this SDG.

XII. Internal Standards (ICP-MS)

All internal standard percent recoveries (%R) were within QC limits.

XIII. Sample Result Verification

All sample result verifications were acceptable.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the data validation all results are considered valid and usable for all purposes.

Fort Bliss, Castner Range
Metals - Data Qualification Summary - SDG K1701351

No Sample Data Qualified in this SDG

Fort Bliss, Castner Range
Metals - Laboratory Blank Data Qualification Summary - SDG K1701351

No Sample Data Qualified in this SDG

Fort Bliss, Castner Range
Metals - Field Blank Data Qualification Summary - SDG K1701351

No Sample Data Qualified in this SDG

LDC #: 38389A4a
SDG #: K1701351
Laboratory: ALS Environmental

VALIDATION COMPLETENESS WORKSHEET

~~ADR~~/IV

Date: 4/10/17
Page: 1 of 2
Reviewer: AL
2nd Reviewer: KK

METHOD: Metals (EPA SW 846 Method 6020A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/N A	Not reviewed for ADR validation.
II.	ICP/MS Tune	A	
III.	Instrument Calibration	A	
IV.	ICP Interference Check Sample (ICS) Analysis	A	
V.	Laboratory Blanks	SW	~~ICB/CCB only~~
VI.	Field Blanks	SW	Not reviewed for ADR validation. EB= 16
VII.	Matrix Spike/Matrix Spike Duplicates	A	Not reviewed for ADR validation. MS/D: 18/19 5 out but PSin no qual
VIII.	Duplicate sample analysis	N	Not reviewed for ADR validation.
IX.	Serial Dilution	A	
X.	Laboratory control samples	A	Not reviewed for ADR validation. LCS (from MH1143)
XI.	Field Duplicates	N	Not reviewed for ADR validation. Splits (9, ~~FTBL-SB-01-0-0.5-020717~~)
XII.	Internal Standard (ICP-MS)	A	
XIII.	Sample Result Verification	A	Not reviewed for ADR validation.
XIV.	Overall Assessment of Data	A	Not reviewed for ADR validation.

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

** Indicates sample was underwent Level IV review

	Client ID	Lab ID	Matrix	Date
1	~~FD-020717~~	~~K1701351-001~~	~~Soil~~	~~02/07/17~~
2	FD-020817	K1701351-002	Soil	02/08/17
3	FTBL-SB-02-0-0.5-020817	K1701351-003	Soil	02/08/17
4	~~FTBL-SB-02-0.5-2-020817~~	~~K1701351-004~~	Soil	02/08/17
5	FTBL-SB-02-4-5.5-020817**	K1701351-005**	Soil	02/08/17
6	~~FTBL-SB-01D-0-0.5-020717~~	~~K1701351-006~~	~~Soil~~	~~02/07/17~~
7	FTBL-SB-01D-0.5-2-020717	K1701351-007	Soil	02/07/17
8	FTBL-SB-01D-4-6-020717	K1701351-008	Soil	02/07/17
9	FTBL-SB-01-0-0.5-020717	K1701351-009	Soil	02/07/17
10	FTBL-SB-01-0.5-2-020717	K1701351-010	Soil	02/07/17
11	FTBL-SB-01-4-6-020717	K1701351-011	Soil	02/07/17
12	~~FTBL-SB-03-0-0.5-020817~~	~~K1701351-012~~	~~Soil~~	~~02/08/17~~
13	FTBL-SB-03-6-8-020817**	K1701351-013**	Soil	02/08/17
14	~~FTBL-SB03-28-30-020917~~	~~K1701351-015~~	~~Soil~~	~~02/09/17~~
15	~~EB-020717~~	~~K1701351-016~~	~~Water~~	02/07/17

LDC #: 38389A4a

SDG #: K1701351

Laboratory: ALS Environmental

VALIDATION COMPLETENESS WORKSHEET

~~ADR~~/IV

Date: 4/10/17

Page: 2 of 2

Reviewer: ar

2nd Reviewer: KK

METHOD: Metals (EPA SW 846 Method 6020A)

	Client ID	Lab ID	Matrix	Date
16	EB-020817	K1701351-017	Water	02/08/17
17	EB-020917	~~K1701351-018~~	Water	02/09/17
18	FD-020717MS	K1701351-001MS	Soil	02/07/17
19	~~FD-020717MSD~~	K1701351-001MSD	Soil	02/07/17
20				
21				
22				
23				
24				

Notes:

)C #: 388814

VALIDATION FINDINGS CHECKLIST

Reviewer: CR
2nd Reviewer: KK

Method: Metals (EPA SW 846 Method 6010B/7000/6020)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. ICP/MS Tune				
Were all isotopes in the tuning solution mass resolution within 0.1 amu?	✓			
Were %RSD of isotopes in the tuning solution ≤5%?	✓			
III. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% (80-120% for mercury) QC limits?	✓			
Were all initial calibration correlation coefficients ≥ 0.995?	✓			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	✓			
V. ICP Interference Check Sample				
Were ICP interference check samples performed daily?	✓			
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?	✓			
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	✓			
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of +/- RL(+/-2X RL for soil) was used for samples that were ≤ 5X the RL, including when only one of the duplicate sample values were ≤ 5X the RL.	✓			
VII. Laboratory control samples				
Was an LCS anaylzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% QC limits for water samples and laboratory established QC limits for soils?	✓			

Validation Area	Yes	No	NA	Findings/Comments
VIII. Furnace Atomic Absorption QC				
If MSA was performed, was the correlation coefficients > 0.995?			✓	
Do all applicable analysies have duplicate injections? (Level IV only)			✓	
For sample concentrations > RL, are applicable duplicate injection RSD values < 20%? (Level IV only)			✓	
Were analytical spike recoveries within the 85-115% QC limits?			✓	
IX. ICP Serial Dilution				
Was an ICP serial dilution analyzed if analyte concentrations were > 50X the MDL (ICP)/>100X the MDL(ICP/MS)?	✓			
Were all percent differences (%Ds) < 10%?	✓			
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.			✓	
X. Internal Standards (EPA SW 846 Method 6020/EPA 200.8)				
Were all the percent recoveries (%R) within the 30-120% (6020)/60-125% (200.8) of the intensity of the internal standard in the associated initial calibration?	✓			
If the %Rs were outside the criteria, was a reanalysis performed?		✓		
XI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		✓		
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
XII. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		✓		
Target analytes were detected in the field duplicates.			✓	
XV. Field blanks				
Field blanks were identified in this SDG.	✓			
Target analytes were detected in the field blanks.	✓			

DC #: 36369A4a

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Page: 1 of 1
Reviewer: OR
2nd reviewer: KK

ll circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1-17		Al, (Sb), (As), Ba, (Be), Cd, Ca, Cr, Co, (Cu), Fe, (Pb), Mg, Mn, Hg, (Ni), K, Se, Ag, Na, Tl, V, (Zn), Mo, B, Sn, Ti, ____
QC1189		Al, (Sb), (As), Ba, (Be), Cd, Ca, Cr, Co, (Cu), Fe, (Pb), Mg, Mn, Hg, (Ni), K, Se, Ag, Na, Tl, V, (Zn), Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
Analysis Method		
ICP		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
ICP-MS		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Sn, Ti, ____

Comments: Mercury by CVAA if performed

LDC #: 38389A4a

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: a
2nd Reviewer: KK

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000) Soil preparation factor applied: 100x x 5xdil
Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: All

				Sample Identification										
Analyte	**Maximum PB[a] (mg/Kg)**	**Maximum ICB/CCB[a] (ug/l)**	**Action Level**	**No qualifiers (>5x)**										
Sb		0.02	0.05											
Be	0.006	0.012	0.03											
Pb		0.04	0.1											
Ni	0.03		0.15											
Zn	0.27		1.35											

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".
Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

LDC #: 38389A4a

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: a
2nd Reviewer: KK

METHOD: Trace Metals (EPA SW846 6010B/7000)

Blank units: ug/L **Associated sample units:** mg/Kg
Sampling date: 2/8/17
Field blank type: (circle one) Field Blank / Rinsate / Other: _____ Associated Samples: All

Analyte	Blank ID	Sample Identification										
	16	Action Limit	No qualifiers									
Sb	0.351	0.00176										
Cu	0.28	0.0014										
Pb	1.09	0.00545										
Ni	0.10	0.0005										
Zn	1.01	0.00505										

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

LDC #: 38389A4

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Reviewer: 02
2nd Reviewer: KK

METHOD: Trace metals (EPA SW 846 Method 6010/6020/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = Found x 100 / True

Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
	ICP (Initial calibration)						
ICV	ICP/MS (Initial calibration)	Cu	13.516	12.5	106	106	Y
	CVAA (Initial calibration)						
	ICP (Continuing calibration)						
CCV	ICP/MS (Continuing calibration)	Pb	26.918	25	108	108	Y
	CVAA (Continuing calibration)						

Comments:

CALCLC.4C4

LDC #: 38389A4 (1)

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Reviewer: CR
2nd Reviewer: KK

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{Found}{True} \times 100$ Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$\%D = \frac{|I-SDR|}{I} \times 100$ Where, I = Initial Sample Result (mg/L)
SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	Found / S / I (units)	True / D / SDR (units)	Recalculated %R / RPD / %D	Reported %R / RPD / %D	Acceptable (Y/N)
ICSAB	ICP interference check	As	25.501	25	102	102	Y
LCS	Laboratory control sample	Sb	101	100	101	101	Y
N	Matrix spike		(SSR-SR)				
N	Duplicate						
N	ICP serial dilution						

Comments: _____

.DC #: 355389A4a

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: CR
2nd reviewer: KK

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Have results been reported and calculated correctly?
Y N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
Y N N/A Are all detection limits below the CRDL?

Detected analyte results for Cu were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(Dil)}{(In.\ Vol.)}$

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor

Recalculation:

$$\frac{100\,mL(5)(3D.513\,\mu g/L)}{1.066g\,(1000)(0.986)} = 14.52\,mg/kg$$

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
	5	Cu	14.5	14.5	Y
	13	Zn	46.0	46.0	Y

Note:

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Fort Bliss, Castner Range

LDC Report Date: April 14, 2017

Parameters: Explosives

Validation Level: Level IV

Laboratory: ALS Environmental

Sample Delivery Group (SDG): K1701351

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
FTBL-SB-02-4-5.5-020817	K1701351-005	Soil	02/08/17

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with the Final Quality Assurance Project Plan, Military Munitions Response Program Remedial Investigation, Closed Castner Firing Range, Fort Bliss, El Paso, Texas (February 2015), the U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.0 (July 2013), and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines (CLPNFG) for Superfund Organic Methods Data Review (October 1999). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Explosives by Environmental Protection Agency (EPA) SW 846 Method 8330B

All sample results were subjected to Level IV data validation, which is comprised of the quality control (QC) summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers:

J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.

U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the analyte should be considered non-detect at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.

NJ (Presumptive): Presumptive evidence of presence of the compound at an estimated quantity.

NA (Not applicable): Data did not warrant qualification since detected results only are affected and the compound was not detected in the associated samples.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 15.0% for all compounds.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 20.0% for all compounds.

Retention time windows were established as required by the method.

III. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) were less than or equal to 20.0% for all compounds.

Retention times of all compounds in the calibration standards were within the established retention time windows.

IV. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

V. Field Blanks

Samples EB-020717, EB-020817, and EB-020917 were identified as equipment blanks. No contaminants were found.

VI. Surrogates

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples/Standard Reference Materials

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

Standard reference materials (SRM) were analyzed as required by the method. The results were within QC limits with the following exceptions:

LCS ID	Compound	%R (Limits)	Associated Samples	Flag	A or P
KWG1701417-5	HMX 1,3,5-Trinitrobenzene 1,3-Dinitrobenzene Nitrobenzene 2-Amino-4,6-Dinitrotoluene 2,6-Dinitrotoluene 2-Nitrotoluene 4-Nitrotoluene 3-Nitrotoluene Nitroglycerin	134 (74-124) 130 (80-116) 133 (73-119) 133 (67-129) 130 (71-123) 146 (79-117) 135 (70-124) 131 (71-124) 136 (67-129) 130 (73-124)	All samples in SDG K1701351	NA	-
KWG1701417-5	2,4,6-Trinitrotoluene 2,4-Dinitrotoluene	133 (71-120) 133 (75-121)	All samples in SDG K1701351	J (all detects) J (all detects)	P

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Compound Quantitation

All compound quantitations met validation criteria with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
FTBL-SB-02-4-5.5-020817	2,4,6-Trinitrotoluene 2,4-Dinitrotoluene	2nd column confirmation was not performed for this compound.	This compound must be confirmed on the 2nd column per the method.	NJ (all detects) NJ (all detects)	A

XI. Target Compound Identifications

All target compound identifications met validation criteria.

XII. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to SRM %R, data were qualified as estimated in one sample.

Due to results not being confirmed, data were qualified as presumptive and estimated in one sample.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

Fort Bliss, Castner Range
Explosives - Data Qualification Summary - SDG K1701351

Sample	Compound	Flag	A or P	Reason
FTBL-SB-02-4-5.5-020817	2,4,6-Trinitrotoluene 2,4-Dinitrotoluene	J (all detects) J (all detects)	P	Laboratory control samples (%R)
FTBL-SB-02-4-5.5-020817	2,4,6-Trinitrotoluene 2,4-Dinitrotoluene	NJ (all detects) NJ (all detects)	A	Compound quantitation (no confirmation)

Fort Bliss, Castner Range
Explosives - Laboratory Blank Data Qualification Summary - SDG K1701351

No Sample Data Qualified in this SDG

Fort Bliss, Castner Range
Explosives - Field Blank Data Qualification Summary - SDG K1701351

No Sample Data Qualified in this SDG

LDC #: 38389A40
SDG #: K1701351
Laboratory: ALS Environmental

VALIDATION COMPLETENESS WORKSHEET
ADR/IV

Date: 4/12/17
Page: 1 of 1
Reviewer: 4
2nd Reviewer: KK

METHOD: HPLC Explosives (EPA SW 846 Method 8330B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A	
II.	Initial calibration/ICV	A/A	RSD≤15%. ICV≤20%
III.	Continuing calibration	A	CCV≤20%
IV.	Laboratory Blanks	A	
V.	Field blanks	ND	EB=15, 16, 17
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	SW	LCS, SRM
IX.	Field duplicates	N	~~D=1, 9, 2, 4~~
X.	Compound quantitation RL/LOQ/LODs	SW	
XI.	Target compound identification	A	
XII.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

** Indicates sample was underwent Level IV review

	Client ID	Lab ID	Matrix	Date
1	~~FD-020717~~ D1	~~K1701351-001~~	~~Soil~~	~~02/07/17~~
2	FD-020817 D2	~~K1701351-002~~	Soil	02/08/17
3	FTBL-SB-02-0-0.5-020817 D3	K1701351-003	Soil	02/08/17
4	~~FTBL-SB-02-0.5-2-020817~~ D3	~~K1701351-004~~	~~Soil~~	~~02/08/17~~
5	FTBL-SB-02-4-5.5-020817**	K1701351-005**	Soil	02/08/17
6	~~FTBL-SB-01D-0-0.5-020717~~	~~K1701351-006~~	~~Soil~~	~~02/07/17~~
7	FTBL-SB-01D-0.5-2-020717	K1701351-007	Soil	02/07/17
8	FTBL-SB-01D-4-6-020717	K1701351-008	Soil	02/07/17
9	FTBL-SB-01-0-0.5-020717 D1	K1701351-009	Soil	02/07/17
10	FTBL-SB-01-0.5-2-020717	K1701351-010	Soil	02/07/17
11	FTBL-SB-01-4-6-020717	K1701351-011	Soil	02/07/17
12	FTBL-SB-03-0-0.5-020817	K1701351-012	Soil	02/08/17
13	FTBL-SB-03-6-8-020817**	K1701351-013**	Soil	02/08/17
14	FTBL-SB03-28-30-020917	K1701351-015	Soil	02/09/17
15	EB-020717	K1701351-016	Water	02/07/17
16	EB-020817	K1701351-017	Water	02/08/17

LDC #: 38389A40 **VALIDATION COMPLETENESS WORKSHEET** Date: 4/13/17
SDG #: K1701351 ADR/IV Page: 2 of 2
Laboratory: ALS Environmental Reviewer:
2nd Reviewer: KK

METHOD: HPLC Explosives (EPA SW 846 Method 8330B)

	Client ID	Lab ID	Matrix	Date
17	~~EB-020917~~	K1701351-018	~~Water~~	02/09/17
18	FD-020717MS	K1701351-001MS	Soil	02/07/17
19	FD-020717MSD	K1701351-001MSD	Soil	02/07/17
20	FD-020717DUP	K1701351-001DUP	Soil	02/07/17
21	~~FD-020717TRP~~	K1701351-001TRP	Soil	02/07/17
22				
23				
24				
25				
26				

Notes:

LDC #: 28389A40

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: 9
2nd Reviewer: KK

Method: ____ GC ✓ HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
IIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%? (15)	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥0.990?			✓	
Were the RT windows properly established?	✓			
IIb. Initial calibration verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 20% or percent recoveries (%R) 80-120%?	✓			
III. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20% or percent recoveries (%R) 80-120%?	✓			
Were all the retention times within the acceptance windows?	✓			
IV. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
V. Field Blanks				
Were field blanks identified in this SDG?	✓			
Were target compounds detected in the field blanks?		✓		
VI. Surrogate spikes				
Were all surrogate percent recovery (%R) within the QC limits?	✓			
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	✓			

LDC #: 38389A40

VALIDATION FINDINGS CHECKLIST

Reviewer: 9
2nd Reviewer: KK

Validation Area	Yes	No	NA	Findings/Comments
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?		✓		
IX. Field duplicates				
Were field duplicate pairs identified in this SDG?		✓		
Were target compounds detected in the field duplicates?			✓	
X. Compound quantitation				
Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XI. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓			
XII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

VALIDATION FINDINGS WORKSHEET

METHOD: ____GC ____HPLC

8310	8330	8151	8141	8141 (Con't)	8021B
A. Acenaphthene	A. HMX	A. 2,4-D	A. Dichlorvos	V. Fensulfothion	V. Benzene
B. Acenaphthylene	B. RDX	B. 2,4-DB	B. Mevinphos	W. Bolstar	CC. Toluene
C. Anthracene	C. 1,3,5-Trinitrobenzene	C. 2,4,5-T	C. Demeton-O	X. EPN	EE. Ethylbenzene
D. Benzo(a)anthracene	D. 1,3-Dinitrobenzene	D. 2,4,5-TP	D. Demeton-S	Y. Azinphos-methyl	SSS. o-Xylene
E. Benzo(a)pyrene	E. Tetryl	E. Dinoseb	E. Ethoprop	Z. Coumaphos	RRR. m,p-Xylenes
F. Benzo(b)fluoranthene	F. Nitrobenzene	F. Dichlorprop	F. Naled	AA. Parathion	GG. Total xylenes
G. Benzo(g,h,i)perylene	G. 2.4.6-Trinitrotoluene	G. Dicamba	G. Sulfotepp	BB. Famphur	
H. Benzo(k)fluoranthene	H. 4-Amino-2,6-dinitrotoluene	H. Dalapon	H. Phorate	CC. Phosmet	
I. Chrysene	I. 2-Amino-4,6-dinitrotoluene	I. MCPP	I. Dimethoate	DD. Trifluralin	
J. Dibenz(a,h)anthracene	J. 2,4-Dinitrotolune	J. MCPA	J. Diazinon	EE. Def	
K. Fluoranthene	K. 2,6-Dinitrotoluene	K. Pentachlorophenol	K. Disulfoton	FF. Prowl	Krone
L. Fluorene	L. 2-Nitrotoluene	L.. 2,4,5-TP (silvex)	L. Parathion-methyl	GG. Ethion	A. Tetra-n-butyltin
M. Indeno(1,2,3-cd)pyrene	M. 3-Nitrotoluene	M. Silvex	M. Ronnel	HH. Tetrachlorvinphos	B. Tri-n-butyltin Cation
N. Naphthalene	N. 4-Nitrotoluene		N. Malathion	II. Sulprofos	C. Di-n-butyltin Cation
O. Phenanthrene	O.Nitroglycerin		O. Chlorpyrifos		D. N-Butyltin Cation
P. Pyrene	P.Picric acid		P. Fenthion		
Q.	Q.		Q. Parathion-ethyl		
R.	R.		R. Trichloronate		
S.			S. Merphos		
			T. Stirophos		
			U. Tokuthion		

Notes:_____

LDC #: 38389A40

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

Page: 1 of 1
Reviewer: 9
2nd Reviewer: KK

METHOD: ___ GC √ HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Were a laboratory control samples (LCS) and laboratory control sample duplicate (LCSD) analyzed for each matrix in this SDG?

Y (N) N/A Were the LCS percent recoveries (%R) and relative percent differences (RPD) within the QC limits?

Level IV/D Only

(Y) N N/A Was an LCS analyzed every 20 samples for each matrix or whenever a sample extraction was performed?

#	LCS/LCSD ID	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
	KWG1704417-5 (SRM)	A	134 (74-124)	( )	( )	all (ND)	J dets/P
		C	130 (80-116)	( )	( )		
		D	133 (73-119)	( )	( )		
		F	133 (67-129)	( )	( )		
		I	130 (71-123)	( )	( )		
		G	133 (71-120)	( )	( )	(dets)	
		K	146 (79-117)	( )	( )	(ND)	
		J	133 (75-121)	( )	( )	(dets)	
		L	135 (70-124)	( )	( )	(ND)	
		N	131 (71-124)	( )	( )		
		M	136 (67-129)	( )	( )		
		O	130 (73-124)	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		

LDC #: 38389A40

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and Reported CRQLs

Reviewer: 9
2nd Reviewer: KK

METHOD: ___ GC ✓ HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Level IV/D Only

Y N N/A Were CRQLs adjusted for sample dilutions, dry weight factors, etc.?
Y N N/A Did the reported results for detected target compounds agree within 10.0% of the recalculated results?
Y N N/A Did the relative percent differences of detected compounds between two columns/detectors ≤40%?
If no, please see findings bellow.

#	Compound Name	Sample ID	%RPD Between Two Columns/Detectors Limit (≤ 40%)	Qualifications
	4, J	5	No confirmation	NJ detects/A

Comments: See sample calculation verification worksheet for recalculations

LDC #: 38389A40

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: Q
2nd Reviewer: KK

METHOD: GC ✓ HPLC ____

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported CF (1000 std)	Recalculated CF (1000 std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	2/9/17	HMX (4408)	15800	15754	15600	15600	2.5	2.6
			PETN ↓	82500	82490	81900	81950	5.1	5.1
2	ICAL	2/7/17	RDX (4410)	41600	41608	41700	41660	2.0	2.0
			0 ↓	21500	21522	20800	20838	7.2	7.3
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 38389A40

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: 9
2nd Reviewer: KK

METHOD: GC _____ HPLC ✓

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF - CF)/ave. CF
CF = A/C

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ical)/ CCV Conc.	Reported CF/Conc. CCV	Recalculated CF/Conc. CCV	Reported %D	Recalculated %D
1	030200002A	3/2/17	4 (LC10)	41700	41300	41315	1	1
			0 ↓	20800	20900	20870	0	0
2	030200002B	3/2/17	↓	41700	41600	41599	0	0
			↓	20800	21100	21143	1	1
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 38309A40

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: Q
2nd reviewer: KK

METHOD: ___ GC √ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: S

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
1-chloro-3-nitrobenzene		5000.0	4119	82	82	0

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

LDC #: 38392A40

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: 9T
2nd Reviewer: KK

METHOD: ___ GC ✓ HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA

RPD = I SSCLCS - SSCLCSD I * 2/(SSCLCS + SSCLCSD)

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery
SC = Concentration
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: KW61101417-5/-6

Compound	Spike Added (MS/MSD)		Spiked Sample Concentration (MS/MSD)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)										
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)										
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)	1.99	NA	2.67	NA	134	134				
2,4,6-Trinitrotoluene (8330)	✓	✓	2.65	✓	133	133				

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 38387A40

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: 9
2nd Reviewer: KK

METHOD: ___ GC ✓ HPLC

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds agree within 10% of the reported results?

Concentration= $\frac{(A)(Fv)(Df)}{(RF)(Vs \text{ or } Ws)(\%S/100)}$

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound In the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID. 5 Compound Name G

Concentration = $\frac{(1483417)(8)(1)}{(41700)(10.120)(0.986)(1000)}$

$= 0.0295$ mg/kg

#	Sample ID	Compound	Reported Concentrations (mg/kg)	Recalculated Results Concentrations ( )	Qualifications
	5	G	0.029		

Comments: _____

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Fort Bliss, Castner Range

LDC Report Date: April 14, 2017

Parameters: Perchlorate

Validation Level: Level IV

Laboratory: ALS Environmental

Sample Delivery Group (SDG): K1701351

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
FTBL-SB-03-6-8-020817	K1701351-013	Soil	02/08/17

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with the Final Quality Assurance Project Plan, Military Munitions Response Program Remedial Investigation, Closed Castner Firing Range, Fort Bliss, El Paso, Texas (February 2015), the U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.0 (July 2013), and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines (CLPNFG) for Superfund Organic Methods Data Review (October 1999). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Perchlorate by Environmental Protection Agency (EPA) SW 846 Method 6850

All sample results were subjected to Level IV data validation, which is comprised of the quality control (QC) summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.

U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.

NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. LC/MS Instrument Performance Check

Instrument performance check was performed prior to initial calibration.

All perchlorate ion signal to noise ratio requirements were met.

III. Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 15.0%.

The isotope ratios were within QC limits.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 15.0%.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 15.0%.

The isotope ratios were within QC limits.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

VI. Field Blanks

No field blanks were identified in this SDG.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Internal Standards

All internal standard recoveries (%R) were within QC limits.

XI. Compound Quantitation

All compound quantitations were within validation criteria.

XII. Target Compound Identifications

All target compound identifications were within validation criteria.

XIII. System Performance

The system performance was acceptable.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the data validation all results are considered valid and usable for all purposes.

Fort Bliss, Castner Range
Perchlorate - Data Qualification Summary - SDG K1701351

No Sample Data Qualified in this SDG

Fort Bliss, Castner Range
Perchlorate - Laboratory Blank Data Qualification Summary - SDG K1701351

No Sample Data Qualified in this SDG

Fort Bliss, Castner Range
Perchlorate - Field Blank Data Qualification Summary - SDG K1701351

No Sample Data Qualified in this SDG

LDC #: 38389A87 **VALIDATION COMPLETENESS WORKSHEET** Date: 4/13/17
SDG #: K1701351 ADR/IV Page: 1 of 1
Laboratory: ALS Environmental Reviewer: 4
2nd Reviewer: ICK

METHOD: LC/MS Perchlorate (EPA SW846 Method 6850)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A	
II.	GC/MS Instrument performance check	N	
III.	Initial calibration/ICV	A/A	RSD ≤ 15% ICV = 130
IV.	Continuing calibration	A	CCV ≤ 15%
V.	Laboratory Blanks	A	
VI.	Field blanks	N	
VII.	Surrogate spikes	N	
VIII.	Matrix spike/Matrix spike duplicates	A	
IX.	Laboratory control samples	A	LCS
X.	Field duplicates	N	
XI.	Internal standards	A	
XII.	Compound quantitation RL/LOQ/LODs	A	
XIII.	Target compound identification	A	
XIV.	System performance	A	
XV.	Overall assessment of data	A	

Note: A = Acceptable ND = No compounds detected D = Duplicate SB=Source blank
N = Not provided/applicable R = Rinsate TB = Trip blank OTHER:
SW = See worksheet FB = Field blank EB = Equipment blank
** Indicates sample was underwent Level IV review

	Client ID	Lab ID	Matrix	Date
1	~~FTBL-SB-03-0-0.5-020817~~	~~K1701351-012~~	~~Soil~~	~~02/08/17~~
2	FTBL-SB-03-6-8-020817**	K1701351-013**	Soil	02/08/17
3	~~FTBL-SB-03-0-0.5-020817MS~~	K1701351-012MS	Soil	~~02/08/17~~
4	~~FTBL-SB-03-0-0.5-020817MSD~~	K1701351-012MSD	Soil	~~02/08/17~~
5				
6				
7				
8				

Notes:

LDC #: 38389A87

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: Q
2nd Reviewer: KK

Method: LCMS

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
II. LC/MS Instrument performance check				
Were the instrument performance reviewed and found to be within the specified criteria?			✓	
Were all samples analyzed within the 12 hour clock criteria?	✓			
IIIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 15%?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit criteria of ≥ 0.990?			✓	
IIIb. Initial Calibration Verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 15%?	✓			
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) of the continuing calibration ≤ 15%?	✓			
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Field blanks				
Were field blanks identified in this SDG?		✓		
Were target compounds detected in the field blanks?			✓	
VII. Surrogate spikes				
Were all surrogate percent differences (%R) within QC limits?			✓	
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any percent recovery (%R) was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
VIII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			

LDC #: 38389A87

VALIDATION FINDINGS CHECKLIST

Reviewer: 9
2nd Reviewer: KK

Validation Area	Yes	No	NA	Findings/Comments
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	✓			
IX. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
X. Field duplicates				
Were field duplicate pairs identified in this SDG?		✓		
Were target compounds detected in the field duplicates?.			✓	
XI. Internal standards				
Were internal standard area counts within ± 50% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds from the associated calibration standard?	✓			
XII. Compound quantitation				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Target compound identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
XIV. System performance				
System performance was found to be acceptable.	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

LDC #: 38389A87

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: 9
2nd Reviewer: KK

METHOD: GC ____ ✓ HPLC / MS

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported CF (1.00 std)	Recalculated CF (1.00 std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL2	2/22/17	Perchlorate	1.218	1.218	1.135	1.135	8.4	8.4
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 38389A87

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: 9
2nd Reviewer: KK

METHOD: GC ✓ HPLC MS

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF - CF)/ave. CF
CF = A/C

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(Ical)/ CCV Conc.	Reported CF/Conc. CCV	Recalculated CF/Conc. CCV	Reported %D	Recalculated %D
1	CCV	3/22/17 02:16	Perchlorate	10.0	10.9	10.9	9	9
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 38389A5T

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: 9
2nd Reviewer: KK

METHOD: ___ GC (__HPLC (MS

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = 100 * (SSC - SC)/SA Where SSC = Spiked sample concentration SC = Sample concentration
SA = Spike added
RPD =(({SSCMS - SSCMSD} * 2) / (SSCMS + SSCMSD))*100 MS = Matrix spike MSD = Matrix spike duplicate

MS/MSD samples: 34

Compound	Spike Added (ug/g)		Sample Conc. (ug/g)	Spike Sample Concentration (ug/g)		Matrix spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	---	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)											
Diesel (8015)											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)											
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)											
2,4,6-Trinitrotoluene (8330)											
2,4-DCAA	4.45	4.91	ND	4.64	5.40	104	104	110	110	6	6

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 38389A87

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: 9
2nd Reviewer: KK

METHOD: __ GC ✓ HPLC /MS

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA

RPD = I SSCLCS - SSCLCSD I * 2/(SSCLCS + SSCLCSD)

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery
SC = Concentration
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: KR1701598-06

Compound	Spike Added (ug/g)		Spiked Sample Concentration (ug/g)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)										
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)										
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										
C104	5.00	NA	5.33	NA	107	107				

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 38389A8T

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: 1
2nd Reviewer: KK

METHOD: __ GC V HPLC / MS

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds agree within 10% of the reported results?

Concentration= (A)(Fv)(Df) / (RF)(Vs or Ws)(%S/100)

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound In the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID. ~~A11~~ #3 (MS) = Compound Name NB

Concentration = (2192000)(5)(10)(1) / (18558000)(1.135)(1.173)(0.958)

= 4.63 ng/g

#	Sample ID	Compound	Reported Concentrations (ng/g)	Recalculated Results Concentrations ( )	Qualifications
	3	~~B~~ C10-4	4.64		

Comments: _____

ALS Environmental
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March 10, 2017

Analytical Report for Service Request No: K1701419

(b) (6)

ARCADIS U.S., Inc.
401 East Main Street
Suite 400
El Paso, TX 79901

RE: Closed Castner Firing Range / 06261038.0001.00400

(b) (6)

Enclosed are the results of the sample(s) submitted to our laboratory February 10, 2017
For your reference, these analyses have been assigned our service request number **K1701419.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is (b) . You may also contact me via (b) (6)

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

(b) (6)

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Chain of Custody
Total Solids
General Chemistry
Metals
Raw Data
- Total Solids
- General Chemistry
- Metals

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEC UST	http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L14-51
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	Not available	-
ISO 17025	http://www.pjlabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	03016
Maine DHS	Not available	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Montana DPHHS	http://www.dphhs.mt.gov/publichealth/	CERT0047
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/oqa/	WA005
North Carolina DWQ	http://www.dwqlab.org/	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/envserv/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	http://www.epa.gov/region8/water/dwhome/wyomingdi.html	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.
Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Case Narrative

ALS Environmental—Kelso Laboratory
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ALS ENVIRONMENTAL

Client:	ARCADIS U.S., Inc.	**Service Request No.:**	K1701419
Project:	Closed Castner Firing Range/ 06261038.0001.00400	**Date Received:**	02/10/17
Sample Matrix:	Soil		

Case Narrative

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Three soil samples were received for analysis at ALS Environmental on 02/10/17. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4ºC upon receipt at the laboratory.

General Chemistry Parameters

No anomalies associated with the analysis of these samples were observed.

Total Metals

Matrix Spike Recovery Exceptions:
The control criteria for matrix spike recoveries of Iron for sample FTBL-SB01-0-2-020717 were not applicable. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recoveries.

No other anomalies associated with the analysis of these samples were observed.

(b) (6)

[redacted]

TRRP

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
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Laboratory Review Checklist: Reportable Data							
Laboratory Name: ALS Laboratory Group			LRC Date: 3/10/2017				
Project Name: Closed Castner Firing Range			Laboratory Job Number: K1701419				
Reviewer Name: HH			Prep Batch Number(s): KQ1701633				
#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	**Chain-of-custody (C-O-C)**					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW-846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			1
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Were all necessary corrective actions performed for the reported data?	X				
		Was applicable and available technology used to lower the SDL and minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package?	X				

Laboratory Review Checklist: Reportable Data							
Laboratory Name: ALS Laboratory Group			LRC Date: 3/10/2017				
Project Name: Closed Castner Firing Range			Laboratory Job Number: K1701419				
Reviewer Name: HH			Prep Batch Number(s): KQ1701633				
#[1]	**A[2]**	**Description**	**Yes**	**No**	**NA[3]**	**NR[4]**	**ER#[5]**
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB)**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw data** (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods** (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);
NA = Not Applicable;
NR = Not Reviewed;
R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Reportable Data	
Laboratory Name: ALS Laboratory Group	LRC Date: 3/10/2017
Project Name: Closed Castner Firing Range	Laboratory Job Number: K1701419
Reviewer Name: HH	Prep Batch Number(s): KQ1701633

ER#[5]	Description
1	See Total Metals Matrix Spike Recovery Exceptions in Case Narrative notes.

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);
NA = Not Applicable;
NR = Not Reviewed;
R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A ALS Kelso-Laboratory Data Package Signature Page

This data package consists of:

- ☐ This signature page, the laboratory review checklist, and the following reportable data:
- ☐ R1 Field chain-of-custody documentation;
- ☐ R2 Sample identification cross-reference;
- ☐ R3 Test reports (analytical data sheets) for each environmental sample that includes:
  a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
  b) dilution factors,
  c) preparation methods,
  d) cleanup methods, and
  e) if required for the project, tentatively identified compounds (TICs).
- ☐ R4 Surrogate recovery data including:
  a) Calculated recovery (%R), and
  b) The laboratory's surrogate QC limits.
- ☐ R5 Test reports/summary forms for blank samples;
- ☐ R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  a) LCS spiking amounts,
  b) Calculated %R for each analyte, and
  c) The laboratory's LCS QC limits.
- ☐ R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  a) Samples associated with the MS/MSD clearly identified,
  b) MS/MSD spiking amounts,
  c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  d) Calculated %Rs and relative percent differences (RPDs), and
  e) The laboratory's MS/MSD QC limits
- ☐ R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  a) the amount of analyte measured in the duplicate,
  b) the calculated RPD, and
  c) the laboratory's QC limits for analytical duplicates.
- ☐ R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- ☐ R10 Other problems or anomalies.
- ☐ The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By me signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Check, if applicable: [ ] –This laboratory is an in-house laboratory controlled by the person responding to rule. The official signing the cover page of the rule-required report (for example, the APAR) in which these data are used is responsible for releasing this data package and is by signature

(b) (6) [redacted]

_____
Date

Chain of Custody

ALS Environmental—Kelso Laboratory
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Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ARCADIS
Infrastructure, environment, buildings

ID#:

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Page ___ of ___

Lab Work Order # 17014119

Send Results to:
Contact & Company Name: Arcadis
Telephone: (b) (6)
Address: 401 E. Main St, Suite 400
Fax:
City: El Paso State: TX Zip: 79907
E-mail Address: garett.ferguson@arcadis.com
Project Name/Location (City, State): Closed Cartoer Firing Range
Project #: 06261038.0001.00400
(b) (6)
(b) (6)

Sample ID	Collection Date	Collection Time	Type (✓) Comp	Type (✓) Grab	Matrix	Preservative	Filtered (✓)	# of Containers	Container Information	pH - Discrete	Fraction Organic Carbon - Discrete	Grain Size Distribution - Discrete	Bulk Soil Density Discrete	Volumetric Air & Water Content	Ferric/Ferrous Iron - Discrete
FTBL-SB01-0-2-020717	2/7/17	1145		✓	S					X	X	X	X	X	X
FTBL-SB03-2-4-020817	2/8/17	1405		✓	S					X	X	X	X	X	X
FTBL-SB07-28-30-020917	2/9/17	0930		✓	S					X	X	X	X	X	X

Keys

Preservation Key:
A. H_2SO_4
B. HCL
C. HNO_3
D. NaOH
E. None
F. Other: _____
G. Other: _____
H. Other: _____

Container Information Key:
1. 40 ml Vial
2. 1 L Amber
3. 250 ml Plastic
4. 500 ml Plastic
5. Encore
6. 2 oz. Glass
7. 4 oz. Glass
8. 8 oz. Glass
9. Other: _____
10. Other: _____

Matrix Key:
SO - Soil
SE - Sediment
NL - NAPL/Oil
W - Water
SL - Sludge
SW - Sample Wipe
T - Tissue
A - Air
Other: _____

REMARKS

Special Instructions/Comments:

☐ Special QA/QC Instructions(✓):

Laboratory Information and Receipt		Relinquished By	Laboratory Received By
Lab Name:	Cooler Custody Seal (✓)	(b) (6)	Printed Name:
☐ Cooler packed with ice (✓)	☐ Intact ☐ Not Intact		Signature:
Specify Turnaround Requirements:	Sample Receipt:		Firm:
Shipping Tracking #:	Condition/Cooler Temp: _____		Date/Time:

20130826 CofC AR Form 01.12.2007

Distribution: [redacted] PINK -- Retained by ARCADIS

(b) (6)

Cooler Receipt and Preservation Form

Client Arcadis Service Request K17 01419

Received: 2/10/17 Opened: 2/10/17 By: ll Unloaded: 2/10/17 By: ll

1. Samples were received via? *USPS* (*Fed Ex*) *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) (*Cooler*) *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA (Y) N If yes, how many and where? 1 front
   If present, were custody seals intact? (Y) N If present, were they signed and dated? (Y) N

Raw Cooler Temp	Corrected Cooler Temp	Raw Temp Blank	Corrected Temp Blank	Corr. Factor	Thermometer ID	Cooler/COC ID NA	Tracking Number NA	Filed
-0.5	-0.3	0.7	0.9	+0.2	325	1 of 3	7855 6446 7747	
-0.3	-0.3	0.3	0.3	0.0	298	2 of 3	7855 6446 7769	
-0.6	-0.6	0.6	0.6	0.0	366	3 of 3	7855 6446 7758	

4. Packing material: *Inserts* *Baggies* (*Bubble Wrap*) *Gel Packs* (*Wet Ice*) *Dry Ice* *Sleeves* _____
5. Were custody papers properly filled out (ink, signed, etc.)? NA (Y) N
6. Were samples received in good condition (temperature, unbroken)? *Indicate in the table below.* NA (Y) N
   If applicable, tissue samples were received: *Frozen* *Partially Thawed* *Thawed*
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA (Y) N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA (Y) ~~N~~ N/A
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA (Y) N ll 2/10/17
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* (NA) Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* (NA) Y N
12. Was C12/Res negative? (NA) Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

SHORT HOLD TIME

Notes, Discrepancies, & Resolutions: ~~Did not receive sample ETAL-SB-010-0.0-5-020717 @ 14:05.~~
NA ll 2/10/17

7/25/16 *Page* ____ *of* ____

Total Solids

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Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701419
Project:	Closed Castner Firing Range/06261038.0001.00400	**Date Collected:**	02/07/17 - 02/09/17
Sample Matrix:	Soil	**Date Received:**	02/10/17
Analysis Method:	160.3 Modified	**Units:**	Percent
Prep Method:	None	**Basis:**	As Received

Solids, Total

Sample Name	Lab Code	Result	MRL	MDL	Dil.	Date Analyzed	Q
FTBL-SB01-0-2-020717	K1701419-001	**96.5**	-	-	1	02/15/17 17:06	
FTBL-SB03-2-4-020817	K1701419-002	**94.3**	-	-	1	02/15/17 17:06	
FTBL-SB03-28-30-020917	K1701419-003	**92.4**	-	-	1	02/15/17 17:06	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701419
Project	Closed Castner Firing Range/06261038.0001.00400	**Date Collected:**	02/07/17
Sample Matrix:	Soil	**Date Received:**	02/10/17
Analysis Method:	160.3 Modified	**Units:**	Percent
Prep Method:	None	**Basis:**	As Received

Replicate Sample Summary
Inorganic Parameters

Sample Name:	Lab Code:	MRL	MDL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
FTBL-SB01-0-2-020717	K1701419-001DUP	-	-	96.5	96.2	96.4	<1	20	02/15/17
Batch QC	K1701534-002DUP	-	-	88.2	90.3	89.3	2	20	02/15/17

Results flagged with an asterisk (*) indicate values outside control criteria.

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701419
Project:	Closed Castner Firing Range/06261038.0001.00400	**Date Collected:**	02/07/17 - 02/09/17
Sample Matrix:	Soil	**Date Received:**	02/10/17
Analysis Method:	Calculation	**Units:**	Percent
Prep Method:	None	**Basis:**	As Received

Moisture

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
FTBL-SB01-0-2-020717	K1701419-001	**3.50**	-	1	02/15/17 17:06	
FTBL-SB03-2-4-020817	K1701419-002	**5.70**	-	1	02/15/17 17:06	
FTBL-SB03-28-30-020917	K1701419-003	**7.60**	-	1	02/15/17 17:06	

General Chemistry

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701419
Project:	Closed Castner Firing Range/06261038.0001.00400	**Date Collected:**	02/07/17 - 02/09/17
Sample Matrix:	Soil	**Date Received:**	02/10/17
Analysis Method:	9045D	**Units:**	pH Units
Prep Method:	None	**Basis:**	As Received

pH

Sample Name	Lab Code	Result	LOQ	LOD	MDL	Dil.	Date Analyzed	Q
FTBL-SB01-0-2-020717	K1701419-001	**8.25**	-	-	-	1	03/02/17 18:25	H
FTBL-SB03-2-4-020817	K1701419-002	**8.51**	-	-	-	1	03/02/17 18:25	H
FTBL-SB03-28-30-020917	K1701419-003	**8.99**	-	-	-	1	03/02/17 18:25	H

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dba ALS Environmental

QA/QC Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701419
Project	Closed Castner Firing Range/06261038.0001.00400	**Date Collected:**	02/07/17
Sample Matrix:	Soil	**Date Received:**	02/10/17
		Date Analyzed:	03/02/17

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	FTBL-SB01-0-2-020717	**Units:**	pH Units
Lab Code:	K1701419-001	**Basis:**	As Received

Analyte Name	Analysis Method	LOQ	LOD	MDL	Sample Result	Duplicate Sample K1701419-001DUP Result	Average	RPD	RPD Limit
pH	9045D	-	-	-	8.25	8.20	8.23	<1	20

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QA/QC Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701419
Project:	Closed Castner Firing Range/06261038.0001.00400	**Date Analyzed:**	03/02/17
Sample Matrix:	Soil	**Date Extracted:**	NA

Lab Control Sample Summary
pH

Analysis Method:	9045D	**Units:**	pH Units
Prep Method:	None	**Basis:**	As Received
		Analysis Lot:	536850

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1701419-LCS	7.68	7.70	100	85-115

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701419
Project:	Closed Castner Firing Range/06261038.0001.00400	**Date Collected:**	02/07/17 - 02/09/17
Sample Matrix:	Soil	**Date Received:**	02/10/17
Analysis Method:	ASTM D854	**Units:**	NONE
Prep Method:	None	**Basis:**	As Received

Specific Gravity

Sample Name	Lab Code	Result	LOQ	LOD	MDL	Dil.	Date Analyzed	Q
FTBL-SB01-0-2-020717	K1701419-001	**2.09**	-	-	-	1	03/03/17 11:53	
FTBL-SB03-2-4-020817	K1701419-002	**1.44**	-	-	-	1	03/03/17 11:53	
FTBL-SB03-28-30-020917	K1701419-003	**2.81**	-	-	-	1	03/03/17 11:53	

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QA/QC Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701419
Project	Closed Castner Firing Range/06261038.0001.00400	**Date Collected:**	02/07/17
Sample Matrix:	Soil	**Date Received:**	02/10/17
		Date Analyzed:	03/03/17

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	FTBL-SB01-0-2-020717	**Units:**	NONE
Lab Code:	K1701419-001	**Basis:**	As Received

Analyte Name	Analysis Method	LOQ	LOD	MDL	Sample Result	Duplicate Sample K1701419-001DUP Result	Average	RPD	RPD Limit
Specific Gravity	ASTM D854	-	-	-	2.09	1.77	1.93	17	20

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Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701419
Project:	Closed Castner Firing Range/06261038.0001.00400	**Date Collected:**	02/07/17 - 02/09/17
Sample Matrix:	Soil	**Date Received:**	02/10/17
Analysis Method:	ASTM E1109-86	**Units:**	g/cm3
Prep Method:	None	**Basis:**	As Received

Bulk Density

Sample Name	Lab Code	Result	LOQ	LOD	MDL	Dil.	Date Analyzed	Q
FTBL-SB01-0-2-020717	K1701419-001	**1.18**	-	-	-	1	03/03/17 13:52	
FTBL-SB03-2-4-020817	K1701419-002	**1.29**	-	-	-	1	03/03/17 13:52	
FTBL-SB03-28-30-020917	K1701419-003	**1.00**	-	-	-	1	03/03/17 13:52	

ALS Group USA, Corp.
dba ALS Environmental
Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701419
Project:	Closed Castner Firing Range/06261038.0001.00400	**Date Collected:**	2/7/2017
Sample Matrix:	Soil	**Date Received:**	2/10/2017

FeII

Prep Method:	ALS SOP	Units:	mg/Kg
Analysis Method:	Lovely Phillips Modified	Basis:	Dry
Test Notes:			

Sample Name	Lab Code	LOQ	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
FTBL-SB01-0-2-020717	K1701419-001	-	1.1	1	2/21/2017	2/21/2017	ND	
FTBL-SB03-2-4-020817	K1701419-002	-	1.1	1	2/21/2017	2/21/2017	ND	
FTBL-SB03-28-30-020917	K1701419-003	-	1.1	1	2/21/2017	2/21/2017	ND	
Method Blank	K1701419-MB	-	1.1	1	2/21/2017	2/21/2017	ND	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701419
Project:	Closed Castner Firing Range/06261038.0001.00400	**Date Collected:**	02/07/17 - 02/09/17
Sample Matrix:	Soil	**Date Received:**	02/10/17
Analysis Method:	Walkley-Black	**Units:**	mg/Kg
Prep Method:	None	**Basis:**	Dry

Carbon, Total Organic

Sample Name	Lab Code	Result	LOQ	LOD	Dil.	Date Analyzed	Q
FTBL-SB01-0-2-020717	K1701419-001	**6200**	2100	-	1	03/01/17 11:30	
FTBL-SB03-2-4-020817	K1701419-002	**2700**	2100	-	1	03/01/17 11:30	
FTBL-SB03-28-30-020917	K1701419-003	ND U	2200	-	1	03/01/17 11:30	
Method Blank	K1701419-MB	ND U	2000	-	1	03/01/17 11:30	

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QA/QC Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701419
Project	Closed Castner Firing Range/06261038.0001.00400	**Date Collected:**	02/07/17
Sample Matrix:	Soil	**Date Received:**	02/10/17
		Date Analyzed:	03/01/17

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	FTBL-SB01-0-2-020717	**Units:**	mg/Kg
Lab Code:	K1701419-001	**Basis:**	Dry

Analyte Name	Analysis Method	LOQ	LOD	Sample Result	Duplicate Sample K1701419-001DUP Result	Average	RPD	RPD Limit
Carbon, Total Organic	Walkley-Black	2100	-	6200	6500	6340	5	20

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Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701419
Project:	Closed Castner Firing Range/06261038.0001.00400	**Date Analyzed:**	03/01/17
Sample Matrix:	Soil	**Date Extracted:**	NA

Lab Control Sample Summary
Carbon, Total Organic

Analysis Method:	Walkley-Black	**Units:**	mg/Kg
Prep Method:	None	**Basis:**	Dry
		Analysis Lot:	536602

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1701419-LCS	6300	5500	115	85-115

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Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701419
Project:	Closed Castner Firing Range/06261038.0001.00400	**Date Collected:**	2/7/2017
Sample Matrix:	Soil	**Date Received:**	2/10/2017
		Date Analyzed:	2/16/2017

Particle Size Determination
ASTM D422

Sample Name: FTBL-SB01-0-2-020717
Lab Code: K1701419-001

Gravel and Sand
(Sieve Analysis)

Description	Sieve Size	Weight (g)	Percent Passing
Gravel (19.0 mm)	**No.3/4"(19.0 mm)**	0.0000	99.48
Gravel (9.50 mm)	**No.3/8"(9.50 mm)**	0.0000	99.48
Gravel, Medium	**No.4 (4.75 mm)**	4.5413	88.29
Gravel, Fine	**No.10 (2.00 mm)**	1.8364	83.76
Sand, Very Coarse	**No.20 (0.850 mm)**	2.0183	78.80
Sand, Coarse	**No.40 (0.425 mm)**	2.6171	72.36
Sand, Medium	**No.60 (0.250 mm)**	2.3967	66.47
Sand, Fine	**No.140 (0.106 mm)**	9.0689	44.18
Sand, Very Fine	**No.200 (0.0750 mm)**	4.7532	32.50

Silt and Clay
(Hydrometer Analysis)

Particle Diameter	Percent Passing
0.074 mm	28.33
0.005 mm	6.98
0.001 mm	0.00

ALS Group USA, Corp.
dba ALS Environmental
Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701419
Project:	Closed Castner Firing Range/06261038.0001.00400	**Date Collected:**	2/8/2017
Sample Matrix:	Soil	**Date Received:**	2/10/2017
		Date Analyzed:	2/16/2017

Particle Size Determination
ASTM D422

Sample Name: FTBL-SB03-2-4-020817
Lab Code: K1701419-002

Gravel and Sand
(Sieve Analysis)

Description	Sieve Size	Weight (g)	Percent Passing
Gravel (19.0 mm)	**No.3/4"(19.0 mm)**	0.0000	99.95
Gravel (9.50 mm)	**No.3/8"(9.50 mm)**	0.0000	99.95
Gravel, Medium	**No.4 (4.75 mm)**	7.2536	85.47
Gravel, Fine	**No.10 (2.00 mm)**	11.6446	62.21
Sand, Very Coarse	**No.20 (0.850 mm)**	10.3060	41.53
Sand, Coarse	**No.40 (0.425 mm)**	4.7408	32.02
Sand, Medium	**No.60 (0.250 mm)**	2.0478	27.91
Sand, Fine	**No.140 (0.106 mm)**	2.6268	22.64
Sand, Very Fine	**No.200 (0.0750 mm)**	1.1692	20.29

Silt and Clay
(Hydrometer Analysis)

Particle Diameter	Percent Passing
0.074 mm	20.03
0.005 mm	10.10
0.001 mm	4.17

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Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701419
Project:	Closed Castner Firing Range/06261038.0001.00400	**Date Collected:**	2/9/2017
Sample Matrix:	Soil	**Date Received:**	2/10/2017
		Date Analyzed:	2/16/2017

Particle Size Determination
ASTM D422

Sample Name: FTBL-SB03-28-30-020917
Lab Code: K1701419-003

Gravel and Sand
(Sieve Analysis)

Description	Sieve Size	Weight (g)	Percent Passing
Gravel (19.0 mm)	**No.3/4"(19.0 mm)**	0.0000	100.01
Gravel (9.50 mm)	**No.3/8"(9.50 mm)**	0.0000	100.01
Gravel, Medium	**No.4 (4.75 mm)**	0.2639	99.36
Gravel, Fine	**No.10 (2.00 mm)**	6.6662	82.85
Sand, Very Coarse	**No.20 (0.850 mm)**	7.4659	64.17
Sand, Coarse	**No.40 (0.425 mm)**	4.5073	52.89
Sand, Medium	**No.60 (0.250 mm)**	2.3134	47.10
Sand, Fine	**No.140 (0.106 mm)**	2.8602	39.94
Sand, Very Fine	**No.200 (0.0750 mm)**	1.2207	36.89

Silt and Clay
(Hydrometer Analysis)

Particle Diameter	Percent Passing
0.074 mm	36.84
0.005 mm	17.45
0.001 mm	5.87

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Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701419
Project:	Closed Castner Firing Range/06261038.0001.00400	**Date Collected:**	2/7/2017
Sample Matrix:	Soil	**Date Received:**	2/10/2017
		Date Analyzed:	2/16/2017

Particle Size Determination
ASTM D422

Sample Name: FTBL-SB01-0-2-020717
Lab Code: K1701419-001DUP

Gravel and Sand
(Sieve Analysis)

Description	Sieve Size	Weight (g)	Percent Passing
Gravel (19.0 mm)	**No.3/4"(19.0 mm)**	0.0000	99.99
Gravel (9.50 mm)	**No.3/8"(9.50 mm)**	0.0000	99.99
Gravel, Medium	**No.4 (4.75 mm)**	3.2010	92.06
Gravel, Fine	**No.10 (2.00 mm)**	2.3627	86.21
Sand, Very Coarse	**No.20 (0.850 mm)**	2.2898	80.53
Sand, Coarse	**No.40 (0.425 mm)**	2.9900	73.10
Sand, Medium	**No.60 (0.250 mm)**	2.3931	67.15
Sand, Fine	**No.140 (0.106 mm)**	9.8259	42.75
Sand, Very Fine	**No.200 (0.0750 mm)**	4.9430	30.47

Silt and Clay
(Hydrometer Analysis)

Particle Diameter	Percent Passing
0.074 mm	28.51
0.005 mm	9.80
0.001 mm	0.00

Metals

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701419
Project:	Closed Castner Firing Range/06261038.0001.00400	**Date Collected:**	02/07/17 11:45
Sample Matrix:	Soil	**Date Received:**	02/10/17 10:00
Sample Name:	FTBL-SB01-0-2-020717	**Basis:**	Dry
Lab Code:	K1701419-001		

Total Metals

Analyte Name	Analysis Method	Result	Units	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Iron	6010C	**13100**	mg/Kg	4.1	4.1	0.9	2	03/01/17 11:13	02/15/17	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701419
Project:	Closed Castner Firing Range/06261038.0001.00400	**Date Collected:**	02/08/17 14:05
Sample Matrix:	Soil	**Date Received:**	02/10/17 10:00
Sample Name:	FTBL-SB03-2-4-020817	**Basis:**	Dry
Lab Code:	K1701419-002		

Total Metals

Analyte Name	Analysis Method	Result	Units	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Iron	6010C	**9800**	mg/Kg	4.1	4.1	0.9	2	03/01/17 11:24	02/15/17	

Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701419
Project:	Closed Castner Firing Range/06261038.0001.00400	**Date Collected:**	02/09/17 09:30
Sample Matrix:	Soil	**Date Received:**	02/10/17 10:00
Sample Name:	FTBL-SB03-28-30-020917	**Basis:**	Dry
Lab Code:	K1701419-003		

Total Metals

Analyte Name	Analysis Method	Result	Units	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Iron	6010C	**15800**	mg/Kg	19	19	4	10	03/01/17 11:41	02/15/17	

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Analytical Report

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701419
Project:	Closed Castner Firing Range/06261038.0001.00400	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	Dry
Lab Code:	KQ1701633-02		

Total Metals

Analyte Name	Analysis Method	Result	Units	LOQ	LOD	MDL	Dil.	Date Analyzed	Date Extracted	Q
Iron	6010C	ND U	mg/Kg	4.0	4.0	0.9	2	03/01/17 11:08	02/15/17	

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701419
Project:	Closed Castner Firing Range/06261038.0001.00400	**Date Collected:**	02/07/17
Sample Matrix:	Soil	**Date Received:**	02/10/17
		Date Analyzed:	03/1/17
		Date Extracted:	02/15/17

Duplicate Matrix Spike Summary
Total Metals

Sample Name:	FTBL-SB01-0-2-020717	**Units:**	mg/Kg
Lab Code:	K1701419-001	**Basis:**	Dry
Analysis Method:	6010C		
Prep Method:	EPA 3050B		

		Matrix Spike KQ1701633-03			**Duplicate Matrix Spike** KQ1701633-04					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Iron	13100	13500	197	236 #	12600	195	-234 #	81-118	7	20

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Printed 03/07/17 5:06:20 PM Superset Reference:

Client: ARCADIS U.S., Inc.
Project: Closed Castner Firing Range/06261038.0001.00400
Sample Matrix: Soil

Service Request: K1701419
Date Analyzed: 03/01/17

Lab Control Sample Summary
Total Metals

Units:mg/Kg
Basis: Dry

Lab Control Sample
KQ1701633-01

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Iron	6010C	205	200	102	81-118

Prep Summary Report

Client: ARCADIS U.S., Inc. **Service Request:**K1701419
Project: Closed Castner Firing Range/06261038.0001.00400
Sample Matrix: Soil

Metals

Prep Method: EPA 3050B **Extraction Lot:**281669
Analytical Method: 6010C

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
FTBL-SB01-0-2-020717	K1701419-001	2/7/17	2/10/17	1.017 g	100 mL	
FTBL-SB03-2-4-020817	K1701419-002	2/8/17	2/10/17	1.027 g	100 mL	
FTBL-SB03-28-30-020917	K1701419-003	2/9/17	2/10/17	1.166 g	100 mL	
Lab Control Sample	KQ1701633-01LCS	NA	NA	1.00 g	100 mL	
Method Blank	KQ1701633-02MB	NA	NA	1.00 g	100 mL	
Matrix Spike	KQ1701633-03MS	2/7/17	2/10/17	1.055 g	100 mL	
Duplicate Matrix Spike	KQ1701633-04DMS	2/7/17	2/10/17	1.064 g	100 mL	

Client: ARCADIS U.S., Inc. **Service Request:** K1701419

Project: Closed Castner Firing Range/06261038.0001.00400

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Concentration Units: ug/L

Analyte	Method	Analysis Batch	Initial Calibration			Continuing Calibration			Continuing Calibration		
			True	Found	%R (1)	True	Found	%R (1)	True	Found	%R (1)
Iron	6010C	536603	2500	2480	99	10000	10000	100	10000	10000	100

Client: ARCADIS U.S., Inc. **Service Request:** K1701419

Project: Closed Castner Firing Range/06261038.0001.00400

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Concentration Units: ug/L

Analyte	Method	Analysis Batch	Initial Calibration			Continuing Calibration			Continuing Calibration		
			True	Found	%R (1)	True	Found	%R (1)	True	Found	%R (1)
Iron	6010C	536603				10000	9970	100	10000	10000	100

Client: ARCADIS U.S., Inc. **Service Request:** K1701419

Project: Closed Castner Firing Range/06261038.0001.00400

INITIAL AND CONTINUING CALIBRATION BLANK

Concentration Units: ug/L

Analyte	Method	Analysis Batch	Initial Calibration Blank		Continuing Calibration Blank		Continuing Calibration Blank		Continuing Calibration Blank	
			Result	C	Result	C	Result	C	Result	C
Iron	6010C	536603	5	U	5	U	5	U	5	U

Client: ARCADIS U.S., Inc. **Service Request:** K1701419

Project: Closed Castner Firing Range/06261038.0001.00400

INITIAL AND CONTINUING CALIBRATION BLANK

Concentration Units: ug/L

Analyte	Method	Analysis Batch	Initial Calibration Blank Result	C	Continuing Calibration Blank Result	C	Continuing Calibration Blank Result	C	Continuing Calibration Blank Result	C
Iron	6010C	536603			5	U				

Client: ARCADIS U.S., Inc. **Service Request:** K1701419

Project: Closed Castner Firing Range/06261038.0001.00400

LOW LEVEL INITIAL AND LOW LEVEL CONTINUING CALIBRATION VERIFICATION

Concentration Units: ug/L

Sample ID / Analyte	Method	Analysis Batch:	Result	True Value	% Rec	% Rec. Limits	Analysis Date
LLICV							
Iron	6010C	536603	18.0	20.0	92	80-120	03/01/17 09:32
LLCCV							
Iron	6010C	536603	25.0	20.0	127	70-130	03/01/17 10:56
LLCCV							
Iron	6010C	536603	19.0	20.0	95	70-130	03/01/17 12:14

Client: ARCADIS U.S., Inc. **Service Request:** K1701419

Project: Closed Castner Firing Range/06261038.0001.00400

ICP INTERFERENCE CHECK SAMPLE

Sample ID ICSA **Concentration Units:** ug/L

Analyte	Method	Analysis Batch:	Result	True Value	% Rec	% Rec. Limits	Analysis Date
Iron	6010C	536603	188000	-	-	80-120	03/01/17 10:01

Client: ARCADIS U.S., Inc. **Service Request:** K1701419

Project: Closed Castner Firing Range/06261038.0001.00400

ICP INTERFERENCE CHECK SAMPLE

Sample ID ICSAB **Concentration Units:** ug/L

Analyte	Method	Analysis Batch:	Result	True Value	% Rec	% Rec. Limits	Analysis Date
Iron	6010C	536603	185000	-	-	80-120	03/01/17 10:03

Client: ARCADIS U.S., Inc. **Service Request:** K1701419

Project: Closed Castner Firing Range/06261038.0001.00400

ICP SERIAL DILUTIONS

Concentration Units: ug/L

Sample ID / Analyte	Method	Analysis Batch:	Initial Sample Result	Serial Dillution Result	% Diff	% Diff. Limit	Analysis Date
K1701419-001SDL							
Iron	6010C	536603	64000	67300	5	10	03/01/17 11:15

Client: ARCADIS U.S., Inc. **Service Request:** K1701419

Project: Closed Castner Firing Range/06261038.0001.00400

Detection Limits

Matrix: Soil

Analyte	Wavelength (nm)	Units	LOQ	LOD	MDL	Method
Iron	2599	ug/L	20	20	4.5	6010C

Client: ARCADIS U.S., Inc. **Service Request:** K1701419

Project: Closed Castner Firing Range/06261038.0001.00400

ICP Linear Range (Quarterly)

Instrument: K-ICP-AES-04

Analyte	Concentration (ug/L)	Method
Iron 2599	360000	6010C

Client: ARCADIS U.S., Inc. **Service Request:** K1701419

Project: Closed Castner Firing Range/06261038.0001.00400

Analysis Run Log

Instrument ID: **K-ICP-AES-04** **Analytical BatchID:** **536603**

Sample	Dilution Factor	Date/Time	Fe
ZZZZZZ	1	03/01/17 09:14	
ZZZZZZ	1	03/01/17 09:17	
ZZZZZZ	1	03/01/17 09:19	
ZZZZZZ	1	03/01/17 09:21	
ICV	1	03/01/17 09:24	X
ZZZZZZ	1	03/01/17 09:26	
ICB	1	03/01/17 09:30	X
LLICV	1	03/01/17 09:32	X
ZZZZZZ	1	03/01/17 09:35	
ZZZZZZ	0.5	03/01/17 09:37	
ZZZZZZ	1	03/01/17 09:40	
CCVB1	1	03/01/17 09:45	X
ZZZZZZ	1	03/01/17 09:51	
CCB	1	03/01/17 09:58	X
ICSA	1	03/01/17 10:01	X
ICSAB	1	03/01/17 10:03	X
ZZZZZZ	1	03/01/17 10:06	
ZZZZZZ	5	03/01/17 10:24	
ZZZZZZ	5	03/01/17 10:28	
ZZZZZZ	5	03/01/17 10:31	
ZZZZZZ	5	03/01/17 10:33	
ZZZZZZ	25	03/01/17 10:36	
ZZZZZZ	5	03/01/17 10:38	
ZZZZZZ	5	03/01/17 10:41	
ZZZZZZ	5	03/01/17 10:43	
ZZZZZZ	5	03/01/17 10:46	
CCVB	1	03/01/17 10:48	X
ZZZZZZ	1	03/01/17 10:51	
CCB	1	03/01/17 10:53	X
LLCCV	1	03/01/17 10:56	X
ZZZZZZ	1	03/01/17 10:59	
ZZZZZZ	0.5	03/01/17 11:01	
ZZZZZZ	1	03/01/17 11:04	
KQ1701633-02MB	2	03/01/17 11:08	X
KQ1701633-01LCS	2	03/01/17 11:10	X
K1701419-001	2	03/01/17 11:13	X
K1701419-001SDL	10	03/01/17 11:15	X

Client: ARCADIS U.S., Inc. **Service Request:** K1701419

Project: Closed Castner Firing Range/06261038.0001.00400

Analysis Run Log

Instrument ID: **K-ICP-AES-04** **Analytical BatchID:** **536603**

Sample	Dilution Factor	Date/Time	Fe
K1701419-001MS	2	03/01/17 11:17	X
K1701419-001DMS	2	03/01/17 11:20	X
ZZZZZZ	2	03/01/17 11:22	
K1701419-002	2	03/01/17 11:24	X
ZZZZZZ	2	03/01/17 11:27	
ZZZZZZ	1	03/01/17 11:29	
CCVB	1	03/01/17 11:33	X
ZZZZZZ	1	03/01/17 11:36	
CCB	1	03/01/17 11:38	X
K1701419-003	10	03/01/17 11:41	X
ZZZZZZ	1	03/01/17 11:43	
ZZZZZZ	1	03/01/17 11:47	
ZZZZZZ	1	03/01/17 11:49	
ZZZZZZ	1	03/01/17 11:52	
ZZZZZZ	1	03/01/17 11:54	
ZZZZZZ	1	03/01/17 11:56	
ZZZZZZ	1	03/01/17 11:59	
ZZZZZZ	1	03/01/17 12:01	
ZZZZZZ	1	03/01/17 12:04	
CCVB	1	03/01/17 12:06	X
ZZZZZZ	1	03/01/17 12:09	
CCB	1	03/01/17 12:11	X
LLCCV	1	03/01/17 12:14	X
ZZZZZZ	1	03/01/17 12:16	
ZZZZZZ	0.5	03/01/17 12:19	
ZZZZZZ	1	03/01/17 12:22	
ZZZZZZ	1	03/01/17 12:24	
ZZZZZZ	1	03/01/17 12:26	
ZZZZZZ	1	03/01/17 12:29	
ZZZZZZ	1	03/01/17 12:31	
ZZZZZZ	1	03/01/17 12:34	
ZZZZZZ	1	03/01/17 12:36	
ZZZZZZ	1	03/01/17 12:38	
ZZZZZZ	1	03/01/17 12:41	
ZZZZZZ	1	03/01/17 12:43	
ZZZZZZ	1	03/01/17 12:46	
ZZZZZZ	1	03/01/17 12:48	

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Al 167.079 {502}	☒	6	Cd	-0.000673	0.000000	No
			Co	-0.000511	0.000000	No
			Cu	-0.000251	0.000000	No
			Fe	0.001472	0.000000	No
			Mo	-0.000447	0.000000	No
			Ni	-0.000516	0.000000	No
Al 394.401 { 85}	☒	4	Ca	0.000069	0.000000	No
			Ni	0.000556	0.000000	No
			V	0.000304	0.000000	No
			Fe	0.000036	0.000000	No
Sb 206.833 {463}	☒	2	Cr	0.015072	0.000000	No
			Ti	0.000755	0.000000	No
Sb 217.581 {455}	☒	2	Pb	-0.000725	0.000000	No
			V	0.002284	0.000000	No
As 189.042 {478}	☒	5	Cr	0.000649	0.000000	No
			Mn	-0.000306	0.000000	No
			Mo	0.000939	0.000000	No
			V	0.000245	0.000000	No
			Fe	-0.000082	0.000000	No
Ba 455.403 { 74}	☒	None				
Be 234.861 {144}	☒	3	Fe	0.000019	0.000000	No
			Mn	-0.000049	0.000000	No
			Mo	-0.000388	0.000000	No
B 249.678 {135}	☒	5	Cr	0.000244	0.000000	No
			Co	0.002316	0.000000	No
			Fe	-0.000450	0.000000	No
			Mo	-0.000475	0.000000	No
			V	-0.000251	0.000000	No
Cd 214.438 {457}	☒	2	Al	-0.000004	0.000000	No
			Fe	0.000024	0.000000	No
Cd 226.502 {449}	☒	3	Fe	0.000133	0.000000	No
			Mo	-0.000048	0.000000	No
			Ti	0.000044	0.000000	No
Ca 315.887 {107}	☒	4	Co	0.000649	0.000000	No
			Mo	-0.000681	0.000000	No
			V	-0.000628	0.000000	No
			Fe	0.000013	0.000000	No
Ca 393.366 { 86}	☒	1	Fe	0.000024	0.000000	No
Cr 267.716 {126}	☒	3	Cd	-0.000298	0.000000	No
			V	-0.000104	0.000000	No
			Fe	0.000026	0.000000	No
Co 228.616 {447}	☒	5	Cr	-0.000170	0.000000	No
			Fe	0.000013	0.000000	No
			Mo	-0.000104	0.000000	No
			Ni	0.000167	0.000000	No
			Ti	0.002048	0.000000	No
Co 230.786 {446}	☒	5	Al	-0.000007	0.000000	No
			Cr	-0.000046	0.000000	No
			Fe	0.000033	0.000000	No
			Mo	0.000989	0.000000	No
			Ni	-0.001619	0.000000	No
Cu 224.700 {450}	☒	5	Fe	0.000574	0.000000	No
			Pb	0.000586	0.000000	No
			Mo	0.000990	0.000000	No
			Ni	-0.002581	0.000000	No
			Ti	0.000271	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Cu 327.396 {103}	☒	4	Ca	0.000010	0.000000	No
			Co	0.000315	0.000000	No
			Fe	-0.000009	0.000000	No
			Ti	0.000106	0.000000	No
Fe 259.940 {130}	☒	1	Mo	-0.000793	0.000000	No
Pb 220.353 {453}	☒	4	Al	-0.000059	0.000000	No
			Cu	0.001403	0.000000	No
			Mo	-0.000393	0.000000	No
			Si	0.001005	0.000000	No
Li 670.784 { 50}	☒	None				
Mg 279.079 {121}	☒	None				
Mg 279.553 {121}	☒	1	Fe	0.000022	0.000000	No
Mg 285.213 {118}	☒	2	V	-0.000221	0.000000	No
			Fe	0.000028	0.000000	No
Mn 257.610 {131}	☒	1	Fe	0.000014	0.000000	No
Mn 260.569 {129}	☒	None				
Mo 202.030 {467}	☒	None				
Ni 221.647 {452}	☒	6	Cr	-0.000805	0.000000	No
			Co	-0.000344	0.000000	No
			Cu	-0.000054	0.000000	No
			Si	0.000297	0.000000	No
			Ti	-0.000358	0.000000	No
			Fe	0.000039	0.000000	No
Ni 231.604 {446}	☒	1	Fe	0.000044	0.000000	No
P 178.284 {489}	☒	None				
P 214.914 {457}	☒	6	Al	-0.000840	0.000000	No
			Cu	0.002461	0.000000	No
			Fe	0.000923	0.000000	No
			Mn	-0.000859	0.000000	No
			Mo	0.009166	0.000000	No
			V	-0.002986	0.000000	No
K 766.490 { 44}	☒	None				
Se 196.090 {472}	☒	3	Al	-0.000055	0.000000	No
			Co	-0.000472	0.000000	No
			Fe	-0.000335	0.000000	No
Si 251.611 {134}	☒	1	Mo	0.007431	0.000000	No
Ag 328.068 {103}	☒	None				
Na 589.592 { 57}	☒	None				
Sr 407.771 { 83}	☒	None				
Tl 190.856 {477}	☒	4	Al	-0.000023	0.000000	No
			Co	0.000657	0.000000	No
			Mn	-0.000364	0.000000	No
			Ti	-0.000691	0.000000	No
Sn 189.989 {477}	☒	None				
Ti 336.121 {100}	☒	1	Ni	0.000091	0.000000	No
V 292.402 {115}	☒	4	Cr	-0.003236	0.000000	No
			Cu	-0.000060	0.000000	No
			Mn	-0.000194	0.000000	No
			Ti	0.000613	0.000000	No
Zn 206.200 {463}	☒	3	Cr	-0.000138	0.000000	No
			Fe	-0.000019	0.000000	No
			Mo	0.000270	0.000000	No
Zn 213.856 {458}	☒	4	Cu	0.001387	0.000000	No
			Fe	0.000142	0.000000	No
			Ni	0.005684	0.000000	No
			Ti	-0.000115	0.000000	No

	Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
	Y 224.306 {450}*	☒	None				
	Y 360.073 { 94}*	☒	None				
	Y 360.073 { 94}2*	☒	None				
	Bi 223.061 {451}	☒	5	Cr	0.000625	0.000000	No
				Co	-0.004443	0.000000	No
				Cu	-0.003084	0.000000	No
				V	-0.000813	0.000000	No
				Fe	0.000115	0.000000	No
	S 182.034 {485}	☒	2	Mn	0.003199	0.000000	No
				Mo	0.001127	0.000000	No

Raw Data

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Total Solids

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Benchsheet

Service Request #:	**K1701419, KQ1701611, K1701466, K1701138, K1701351, K1701534, K1701481**	**Run #:**	**534802**
Test:	**TS**	**Balance ID:**	**K-BALANCE-50**
Method:	**160.3 Modified**		

Pan ID:	Lab Code:	Tare (g)	Wet Wt. (g)	Tare + Dry Wt. (g)	Dry Weight (g)	% Total Solids	RPD
	K1701419-001	1.294	11.062	11.965	10.7	96.5	
	K1701419-001DUP	1.307	10.834	11.725	10.4	96.2	<1
	K1701419-002	1.285	10.799	11.473	10.2	94.3	
	K1701419-003	1.288	10.137	10.650	9.36	92.4	
	K1701466-001	1.285	11.018	11.414	10.1	91.9	
	K1701466-002	1.304	12.058	11.801	10.5	87.1	
	K1701466-003	1.286	11.964	12.702	11.4	95.4	
	K1701466-004	1.294	11.261	11.761	10.5	92.9	
	K1701466-005	1.300	10.780	10.815	9.52	88.3	
	K1701138-001	1.289	2.303	3.593	2.30	100	
	K1701138-002	1.293	2.769	4.062	2.77	100	
	K1701351-012	1.298	10.414	11.271	9.97	95.8	
	K1701351-013	1.304	11.272	12.259	11.0	97.2	
	K1701534-001	1.297	11.212	10.317	9.02	80.4	
	K1701534-002	1.300	14.801	14.356	13.1	88.2	
	K1701534-002DUP	1.302	16.279	16.004	14.7	90.3	2
	K1701481-001	1.305	10.894	11.107	9.80	90.0	

	Oven ID	Temp In	Temp Out	Date In	Time In	Date Out	Time Out	Thermometer ID
Oven1	**k-oven-07**	**105**	**105**	**2/15/2017**	**17:06**	**2/16/2017**	**08:20**	

	Cal EQID	Cal Start Value	Cal End Value	Start Date	Start Time	End Date	End Time
Calibration1	**K-BALANCE-50**	**1.000, 99.995**	**1.003, 100.000**	**2/15/2017**	**10:53**	**2/15/2017**	**17:06**
Calibration2	**K-BALANCE-50**	**0.999, 99.999**	**1.002, 100.000**	**2/16/2017**	**08:45**	**2/16/2017**	**08:49**

Comments: DJM Weight set serial No. 42868 Reviewed by SC 2/16/17

General Chemistry

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Work Request # K1701419

Tier: IV

Date Analyzed: 3/2/17

Analyst: MB Run # 536850

Analysis: pH Soil

DATA QUALITY REPORT
INORGANICS

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1.	Is the method name and number correct and appropriate?	(yes)/no/NA
2.	Holding times met for all analyses and for all samples?	(yes)/no/NA
3.	Are calculations correct?	(yes)/no/NA
4.	Is the reporting basis correct? (Dry Weight)	(yes)/no/NA
5.	All quality control criteria met?	(yes)/no
6.	Is the calibration curve correlation coefficient ≥ 0.995?	yes/no/(NA)
7.	MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency?	(yes)/no/NA
8.	Are ICVs, CCVs, and CCBs all within acceptance limits?	(yes)/no/NA
9.	Are results for methods blanks all ND?	yes/no/(NA)
10.	Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.)	(yes)/no/NA
11.	Are all exceptions explained?	yes/no/(NA)
12.	Have all applicable service requests been reviewed?	(yes)/no/NA
13.	Are all samples labeled correctly?	(yes)/no/NA
14.	Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample, Form V)	(yes)/no/NA
15.	Are detection limits and units reported correctly?	(yes)/no/NA
16.	Is the unused space on the benchsheet crossed out?	(yes)/no/NA
17.	Was analysis turned in by the due date? (n-2) (If not record SR#)	yes/(no)/NA Due 3/3

COMMENTS:

Final Approved by: [signature] Date: 3/3/17

DQREPORT

Analytical Results Summary

Instrument Name: K-pH-01 **Analyst:** DBRADBURY **Analysis Lot:** 536850 **Method/Testcode:** 9045D/pH

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
K1701419-001	pH	N/A		Soil	8.25 pH Units	10.48 g	8.25 pH Units	1					3/2/17 18:25:00	N	IV
K1701419-002	pH	N/A		Soil	8.51 pH Units	10.20 g	8.51 pH Units	1					3/2/17 18:25:00	N	IV
K1701419-003	pH	N/A		Soil	8.99 pH Units	10.10 g	8.99 pH Units	1					3/2/17 18:25:00	N	IV
KQ1702391-01	pH	DUP	K1701419-001	Soil	8.20 pH Units	10.45 g	8.20 pH Units	1				<1	3/2/17 18:25:00	N	IV
KQ1702391-02	pH	LCS		Soil	7.68 pH Units	10.00 g	7.68 pH Units	1			100		3/2/17 18:25:00	N	IV

AB 3/3/17

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

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ALS ENVIRONMENTAL

Run # 536850

Service Request #: K1701419

Method: 9045D

Analysis: pH Corrosivity

Matrix: Soil/Solid

Calibration

Buffer	1.00	4.00	7.00	10.00	12.45	Value of Buffers at 25 °C
Reading	~~7~~	4.00	7.00	10.00	~~7~~	pH Slope: 99.5 %
Temp °C	~~25~~	24.7	25.0	25.0	~~25~~	

Sample Number	Sample Wt. (g)	Vol of Ext Sol (mLs)	pH	Time Analyzed	Temp °C	% Solids
Buffer Check	**Buffer Value:**	4.00	4.00	18:25	24.8	NA
LCS	--	--	7.68	18:27	24.9	
1419-1	10.48	10.0	8.25	18:30	24.8	
-1d	10.45		8.20	18:32	24.9	
-2	10.20		8.51	18:34	24.7	
-3	10.10		8.99	18:36	24.6	
Buffer ✓	Value:	4.00	4.00	18:38	24.4	
Buffer Check	**Buffer Value:**					
Buffer Check	**Buffer Value:**					

LCS: ERA Lot # 5234-779 ID # 12-GEN.pH-001-1F T. V. = 7.70 % REC = 100

pH 4.00 buffer: 12-GEN. pH-001-21 V pH 7.00 buffer: 12-GEN. pH-001-35 Q pH 10.00 buffer: 12-GEN. pH-001-49 S

ph 1.00 buffer: 12-GEN. pH-001-11 _____ pH 12.45 buffer: 12-GEN. pH-001-63 _____

Probe ID# 12-GEN.pH-001-73A Meter ID# K-pH-01 Extraction Solution: DI Water

Water Bath ID# K-WB-01 Thermometer ID# L82605

Comments:

Analyst:	(b) (6) [redacted]	Date:	3/2/17
Reviewed By:		Date:	3/3/17

R: WET/Analysis/PH/Templates/SOILPH Revison: 2

Work Request # (Original) 1419

Tier:

Date Analyzed: 2/2[0]16/17

Analyst: CCL

Run # 535869

Analysis: GS

DATA QUALITY REPORT
INORGANICS

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1.	Is the method name and number correct and appropriate?	yes/no/NA
2.	Holding times met for all analyses and for all samples?	yes/no/NA
3.	Are calculations correct?	yes/no/NA
4.	Is the reporting basis correct? (Dry Weight)	yes/no/NA
5.	All quality control criteria met?	yes/no
6.	Is the calibration curve correlation coefficient ≥ 0.995?	yes/no/NA
7.	MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency?	yes/no/NA
8.	Are ICVs, CCVs, and CCBs all within acceptance limits?	yes/no/NA
9.	Are results for methods blanks all ND?	yes/no/NA
10.	Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.)	yes/no/NA
11.	Are all exceptions explained?	yes/no/NA
12.	Have all applicable service requests been reviewed?	yes/no/NA
13.	Are all samples labeled correctly?	yes/no/NA
14.	Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample, Form V)	yes/no/NA
15.	Are detection limits and units reported correctly?	yes/no/NA
16.	Is the unused space on the benchsheet crossed out?	yes/no/NA
17.	Was analysis turned in by the due date? (n-2) (If not record SR#)	yes/no/NA

COMMENTS:

Final Approved by: _____ Date: 2/23/17

DQREPORT

C:\Documents and Settings\adam.bradbury\My Documents\DATAQUAL.DOC

ALS Group USA, Corp.
dba ALS Environmental

Sample Name :	FTBL-SB01-0-2-020717	Service Request:	K1701419
Lab Code:	K1701419-001	Method:	D421 / D422
Client:	ARCADIS U.S., Inc.	Date Collected:	2/7/2017
Project:	1 Castner Firing Range/06261038.0001.00400	Date Received:	2/10/2017
Sample Matrix:	Soil	Date Analyzed:	2/16/2017

Sample Preparation (ASTM D421-85)

(1) Mass of total test sample. (g) (6.1) 40.5628

(3) Mass retained on the No. 4 sieve. (g) (6.2) 4.5413

(2) Coarse Material (6.2)

Coarse material + Tare. (g) 7.8977

Tare weight. (g) 1.3096

(4) Selected portion of fine material. (g) (7.1) 34.1851

Particle Analysis (ASTM D422-63)

Sieve Analysis Of Coarse Material. (6.1)

Gravel 19.0 mm	3/4"	0.0000
Gravel 9.50 mm	3/8"	0.0000
Gravel 4.75 mm	4	4.5413
Gravel 2.00 mm	10	1.8364

Sieve Analysis Of Fine Material. (11.1)

Gravel 0.850 mm	20	2.0183
Gravel 0.425 mm	40	2.6171
Gravel 0.250 mm	60	2.3967
Gravel 0.106 mm	140	9.0689
Gravel 0.075 mm	200	4.7532
Pan	-	0.7712

Analysis of fine material.

Hydrometer corrections. (7.3)

	Hydro 1	Hydro 2
Reading:	6	0

Hygroscopic moisture. (8.1)

Air dried (g)	10.0810
Tare (g)	1.2973
Oven dried + Tare	11.3458

Weight of Fine material

Dry wt.+Tare (g)	142.1595
Tare (g)	120.2370
Fine material (g)	21.9225

Thermometer ID# C65669

Sieve % & Sum 98.6% 21.6254

Determination of Silt/Clay Fraction. (10.2) (10.3) (10.4)

(10.2) T (Min)	(10.2) Hydro Reading	(7.3) Corr. Fact.	(10.4) Temp °C	Specific Gravity	Table 1 a	Table 3 K
2	12	6	20	2.51	1.03	0.01426
5	10		20			0.01426
15	10		20			0.01426
30	10		20			0.01426
60	9		20			0.01426
250	9		20			0.01426
1440	8		19			0.01444

Analyst: CCL Date: 2/16/2017

Reviewed by : [signature] Date: 2/23/17

Comments:

ALS Group USA, Corp.

dba ALS Environmental

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701419
Project:	Closed Castner Firing Range/06261038.0001.00400	**Date Collected:**	2/7/2017
Sample Matrix:	Soil	**Date Received:**	2/10/2017
		Date Analyzed:	2/16/2017

ASTM Method D422 Particle Size

Sample Name: FTBL-SB01-0-2-020717 **Lab Code:** K1701419-001

Initial Weight of air-dried sample. **(6.1)**	40.5628
Mass retained on the No. 4 sieve. **(6.2)**	4.5413
Air-dried portion of fine material. **(7.1)**	34.1851

Course Sieving ASTM D421 (6.2)

Mass of coarse material (g)	6.5881
Percent Recovered	96.8

Coarse sieving (6.1)		**Sieve #**	**Weight (g)**	**% Passing**	**Mass Passing**	
Gravel	19.0 mm	3/4"	0.0000	99.5	40.3524	
Gravel	9.50 mm	3/8"	0.0000	99.5	40.3524	
Medium Gravel	4.75 mm	4	4.5413	88.3	35.8111	
Fine Gravel	2.00 mm	10	1.8364	83.8	33.9747	
Fine sieving (11.1)						
V.C. Sand	0.850 mm	20	2.0183	78.8	32.0566	
C. Sand	0.425 mm	40	2.6171	72.4	29.4395	
M. Sand	0.250 mm	60	2.3967	66.5	27.0428	
F. Sand	0.106 mm	140	9.0689	44.2	17.9739	
V.F. Sand	0.075 mm	200	4.7532	32.5	13.2207	**(16.2)**

Calculated amount retained on the # 10 sieve.	**(16.1)**	6.6075

Total Recovered (g)	40.4526
Total Recovered (%)	100.1

Hygroscopic Moisture (8.1)

Air-dried sample (g)	10.0810
Oven dried sample (g)	10.0485
Hygroscopic Moisture **(13.1)**	0.9968

(W)	**(14.2)**	40.6824

Oven-Dried Sample used in hydrometer analysis. (g)	**(14.1)**	34.0749

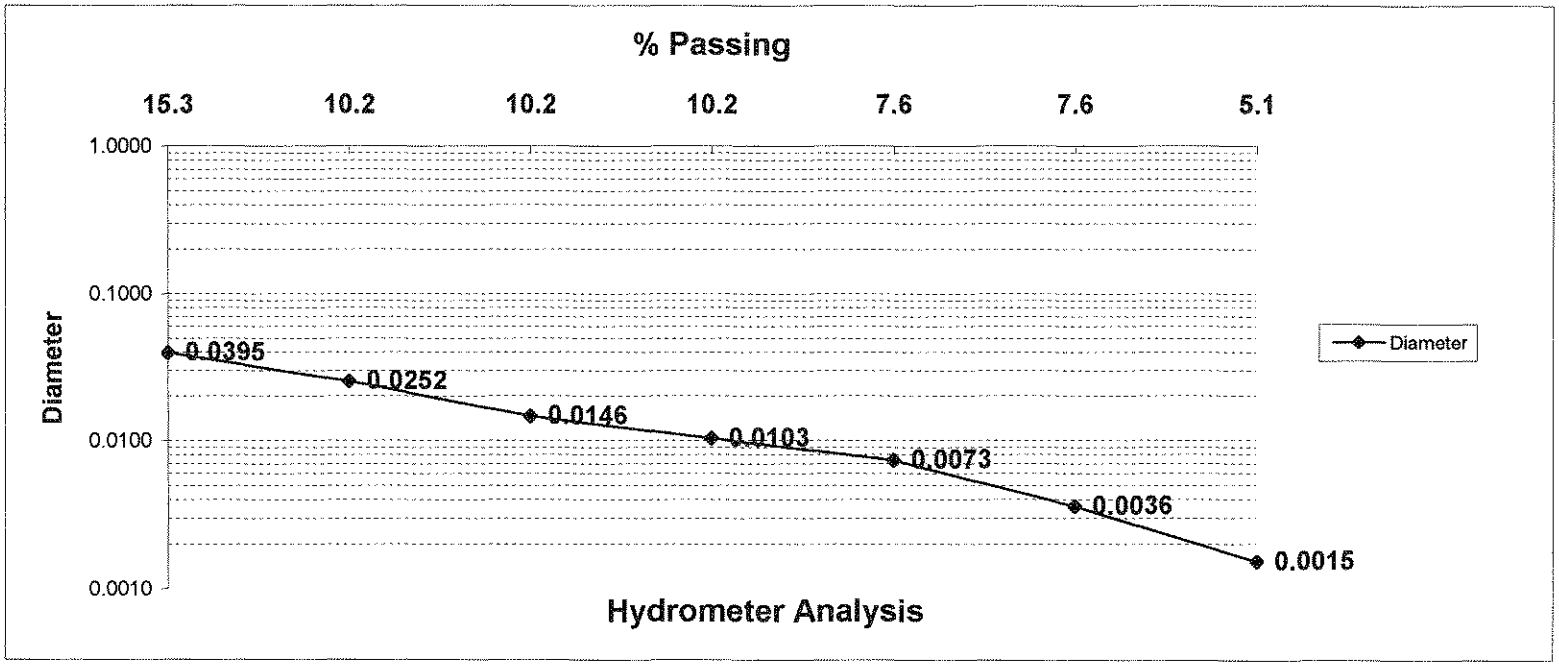
Determination of Silt/Clay Fraction

(10.2) T (Min)	**(10.2)** Hydro Reading	**(7.3)** Corr. Fact.	**(10.4)** Temp °C	**Table 1** Specific Gravity	H (Net)	**(14.3)** a	**Table 2** L Eff. Depth	**Table 3** K	**(14.3)** % Passing = H/Wa * 100	**(15.1)** Dia-meter
2	12	6	20	2.51	6	1.03	15.3	0.0142613	15.3	0.0395
5	10	6	20	2.51	4	1.03	15.6	0.0142613	10.2	0.0252
15	10	6	20	2.51	4	1.03	15.6	0.0142613	10.2	0.0146
30	10	6	20	2.51	4	1.03	15.6	0.0142613	10.2	0.0103
60	9	6	20	2.51	3	1.03	15.8	0.0142613	7.6	0.0073
250	9	6	20	2.51	3	1.03	15.8	0.0142613	7.6	0.0036
1440	8	6	19	2.51	2	1.03	16.0	0.0144377	5.1	0.0015

Comments:

ALS Group USA, Corp.
dba ALS Environmental

Sample Name: FTBL-SB01-0-2-020717
Lab Code: K1701419-001



ALS Group USA, Corp.
dba ALS Environmental

Sample Name :	FTBL-SB03-2-4-020817	Service Request:	K1701419
Lab Code:	K1701419-002	Method:	D421 / D422
Client:	ARCADIS U.S., Inc.	Date Collected:	2/8/2017
Project:	d Castner Firing Range/06261038.0001.00400	Date Received:	2/10/2017
Sample Matrix:	Soil	Date Analyzed:	2/16/2017

Sample Preparation (ASTM D421-85)

(1) Mass of total test sample. (g) (6.1) 50.0658

(3) Mass retained on the No. 4 sieve. (g) (6.2) 7.2536

(2) Coarse Material (6.2)

Coarse material + Tare. (g) 20.2299

Tare weight. (g) 1.3091

(4) Selected portion of fine material. (g) (7.1) 31.1676

Particle Analysis (ASTM D422-63)

Sieve Analysis Of Coarse Material. (6.1)

Gravel 19.0 mm	3/4"	0.0000
Gravel 9.50 mm	3/8"	0.0000
Gravel 4.75 mm	4	7.2536
Gravel 2.00 mm	10	11.6446

Sieve Analysis Of Fine Material. (11.1)

Gravel 0.850 mm	20	10.3060
Gravel 0.425 mm	40	4.7408
Gravel 0.250 mm	60	2.0478
Gravel 0.106 mm	140	2.6268
Gravel 0.075 mm	200	1.1692
Pan	-	0.2482

Analysis of fine material.

Hydrometer corrections. (7.3)

	Hydro 1	Hydro 2
Reading:	5	0

Hygroscopic moisture. (8.1)

Air dried (g)	10.6107
Tare (g)	1.3013
Oven dried + Tare	11.8560

Weight of Fine material

Dry wt.+Tare (g)	142.4324
Tare (g)	121.2007
Fine material (g)	21.2317

Thermometer ID# C65669

Sieve % & Sum 99.6% 21.1388

Determination of Silt/Clay Fraction. (10.2) (10.3) (10.4)

(10.2) T (Min)	(10.2) Hydro Reading	(7.3) Corr. Fact.	(10.4) Temp °C	Specific Gravity	Table 1 a	Table 3 K
2	12	5	20	2.47	1.05	0.01443
5	11		20			0.01443
15	11		20			0.01443
30	11		20			0.01443
60	10		20			0.01443
250	10		20			0.01443
1440	9		19			0.01461

Analyst: CCL Date: 2/16/2017

Reviewed by : [signature] Date: 2/23/17

Comments:

ALS Group USA, Corp.

dba ALS Environmental

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701419
Project:	Closed Castner Firing Range/06261038.0001.00400	**Date Collected:**	2/8/2017
Sample Matrix:	Soil	**Date Received:**	2/10/2017
		Date Analyzed:	2/16/2017

ASTM Method D422 Particle Size

Sample Name: FTBL-SB03-2-4-020817 **Lab Code:** K1701419-002

Initial Weight of air-dried sample. **(6.1)**	50.0658
Mass retained on the No. 4 sieve. **(6.2)**	7.2536
Air-dried portion of fine material. **(7.1)**	31.1676

Course Sieving ASTM D421 (6.2)

Mass of coarse material (g)	18.9208
Percent Recovered	99.9

Coarse sieving (6.1)		**Sieve #**	**Weight (g)**	**% Passing**	**Mass Passing**
Gravel	19.0 mm	3/4"	0.0000	100.0	50.0432
Gravel	9.50 mm	3/8"	0.0000	100.0	50.0432
Medium Gravel	4.75 mm	4	7.2536	85.5	42.7896
Fine Gravel	2.00 mm	10	11.6446	62.2	31.1450
Fine sieving (11.1)					
V.C. Sand	0.850 mm	20	10.3060	41.5	20.6971
C. Sand	0.425 mm	40	4.7408	32.0	15.9563
M. Sand	0.250 mm	60	2.0478	27.9	13.9085
F. Sand	0.106 mm	140	2.6268	22.6	11.2817
V.F. Sand	0.075 mm	200	1.1692	20.3	10.1125 **(16.2)**

Calculated amount retained on the # 10 sieve. **(16.1)**	18.8346	

Hygroscopic Moisture (8.1)

Air-dried sample (g)	10.6107
Oven dried sample (g)	10.5547
Hygroscopic Moisture **(13.1)**	0.9947

Total Recovered (g)	49.9013
Total Recovered (%)	100.2

(W) **(14.2)**	49.8377

Oven-Dried Sample used in hydrometer analysis. (g) **(14.1)**	31.0031

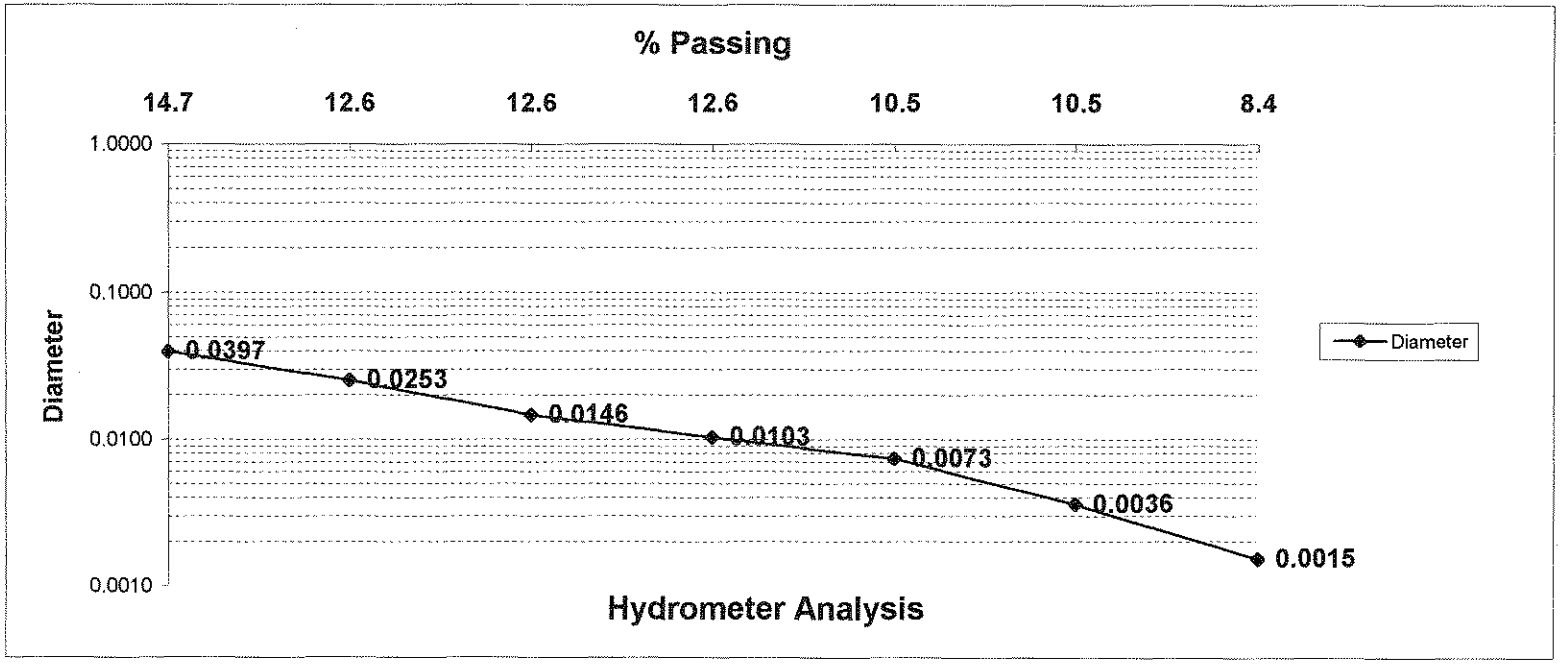
Determination of Silt/Clay Fraction

(10.2) T (Min)	**(10.2)** Hydro Reading	**(7.3)** Corr. Fact.	**(10.4)** Temp °C	**Table 1** Specific Gravity	H (Net)	**(14.3)** a	**Table 2** L Eff. Depth	**Table 3** K	**(14.3)** % Passing = H/Wa * 100	**(15.1)** Dia-meter
2	12	5	20	2.47	7	1.05	15.2	0.0144277	14.7	0.0397
5	11	5	20	2.47	6	1.05	15.3	0.0144277	12.6	0.0253
15	11	5	20	2.47	6	1.05	15.3	0.0144277	12.6	0.0146
30	11	5	20	2.47	6	1.05	15.3	0.0144277	12.6	0.0103
60	10	5	20	2.47	5	1.05	15.5	0.0144277	10.5	0.0073
250	10	5	20	2.47	5	1.05	15.5	0.0144277	10.5	0.0036
1440	9	5	19	2.47	4	1.05	15.6	0.014606	8.4	0.0015

Comments:

ALS Group USA, Corp.
dba ALS Environmental

Sample Name: FTBL-SB03-2-4-020817
Lab Code: K1701419-002



ALS Group USA, Corp.
dba ALS Environmental

Sample Name :	FTBL-SB03-28-30-020917	Service Request:	K1701419
Lab Code:	K1701419-003	Method:	D421 / D422
Client:	ARCADIS U.S., Inc.	Date Collected:	2/9/2017
Project:	1 Castner Firing Range/06261038.0001.00400	Date Received:	2/10/2017
Sample Matrix:	Soil	Date Analyzed:	2/16/2017

Sample Preparation (ASTM D421-85)

(1) Mass of total test sample. (g) (6.1) 40.3698

(3) Mass retained on the No. 4 sieve. (g) (6.2) 0.2639

(2) Coarse Material (6.2)

Coarse material + Tare. (g) 8.2120

Tare weight. (g) 1.2869

(4) Selected portion of fine material. (g) (7.1) 33.4397

Particle Analysis (ASTM D422-63)

Sieve Analysis Of Coarse Material. (6.1)

Gravel 19.0 mm	3/4"	0.0000
Gravel 9.50 mm	3/8"	0.0000
Gravel 4.75 mm	4	0.2639
Gravel 2.00 mm	10	6.6662

Sieve Analysis Of Fine Material. (11.1)

Gravel 0.850 mm	20	7.4659
Gravel 0.425 mm	40	4.5073
Gravel 0.250 mm	60	2.3134
Gravel 0.106 mm	140	2.8602
Gravel 0.075 mm	200	1.2207
Pan	-	0.0376

Analysis of fine material.

Hydrometer corrections. (7.3)

	Hydro 1	Hydro 2
Reading:	6	0

Hygroscopic moisture. (8.1)

Air dried (g)	10.5608
Tare (g)	1.3144
Oven dried + Tare	11.7711

Weight of Fine material

Dry wt.+Tare (g)	124.2408
Tare (g)	105.6882
Fine material (g)	18.5526

Thermometer ID# C65669

Sieve % & Sum 99.2% 18.4051

Determination of Silt/Clay Fraction. (10.2) (10.3) (10.4)

(10.2) T (Min)	(10.2) Hydro Reading	(7.3) Corr. Fact.	(10.4) Temp °C	Specific Gravity	Table 1 a	Table 3 K
2	17	6	20	2.55	1.02	0.01409
5	16		20			0.01409
15	15		20			0.01409
30	14		20			0.01409
60	13		20			0.01409
250	13		20			0.01409
1440	11		19			0.01427

Analyst: CCL Date: 2/16/2017

Reviewed by : [signature] Date: 2/23/17

Comments:

ALS Group USA, Corp.

dba ALS Environmental

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701419
Project:	Closed Castner Firing Range/06261038.0001.00400	**Date Collected:**	2/9/2017
Sample Matrix:	Soil	**Date Received:**	2/10/2017
		Date Analyzed:	2/16/2017

ASTM Method D422 Particle Size

Sample Name: FTBL-SB03-28-30-020917 **Lab Code:** K1701419-003

Initial Weight of air-dried sample. **(6.1)**	40.3698
Mass retained on the No. 4 sieve. **(6.2)**	0.2639
Air-dried portion of fine material. **(7.1)**	33.4397

Course Sieving ASTM D421 (6.2)

Mass of coarse material (g)	6.9251
Percent Recovered	100.1

Coarse sieving (6.1)		**Sieve #**	**Weight (g)**	**% Passing**	**Mass Passing**
Gravel	19.0 mm	3/4"	0.0000	100.0	40.3748
Gravel	9.50 mm	3/8"	0.0000	100.0	40.3748
Medium Gravel	4.75 mm	4	0.2639	99.4	40.1109
Fine Gravel	2.00 mm	10	6.6662	82.8	33.4447
Fine sieving (11.1)					
V.C. Sand	0.850 mm	20	7.4659	64.2	25.6442
C. Sand	0.425 mm	40	4.5073	52.9	21.1369
M. Sand	0.250 mm	60	2.3134	47.1	18.8235
F. Sand	0.106 mm	140	2.8602	39.9	15.9633
V.F. Sand	0.075 mm	200	1.2207	36.9	14.7426 **(16.2)**

Calculated amount retained on the # 10 sieve.	**(16.1)**	6.8558

Total Recovered (g)	40.0402
Total Recovered (%)	100.2

Hygroscopic Moisture (8.1)

Air-dried sample (g)	10.5608
Oven dried sample (g)	10.4567
Hygroscopic Moisture **(13.1)**	0.9901

(W)	**(14.2)**	39.9659

Oven-Dried Sample used in hydrometer analysis. (g)	**(14.1)**	33.1101

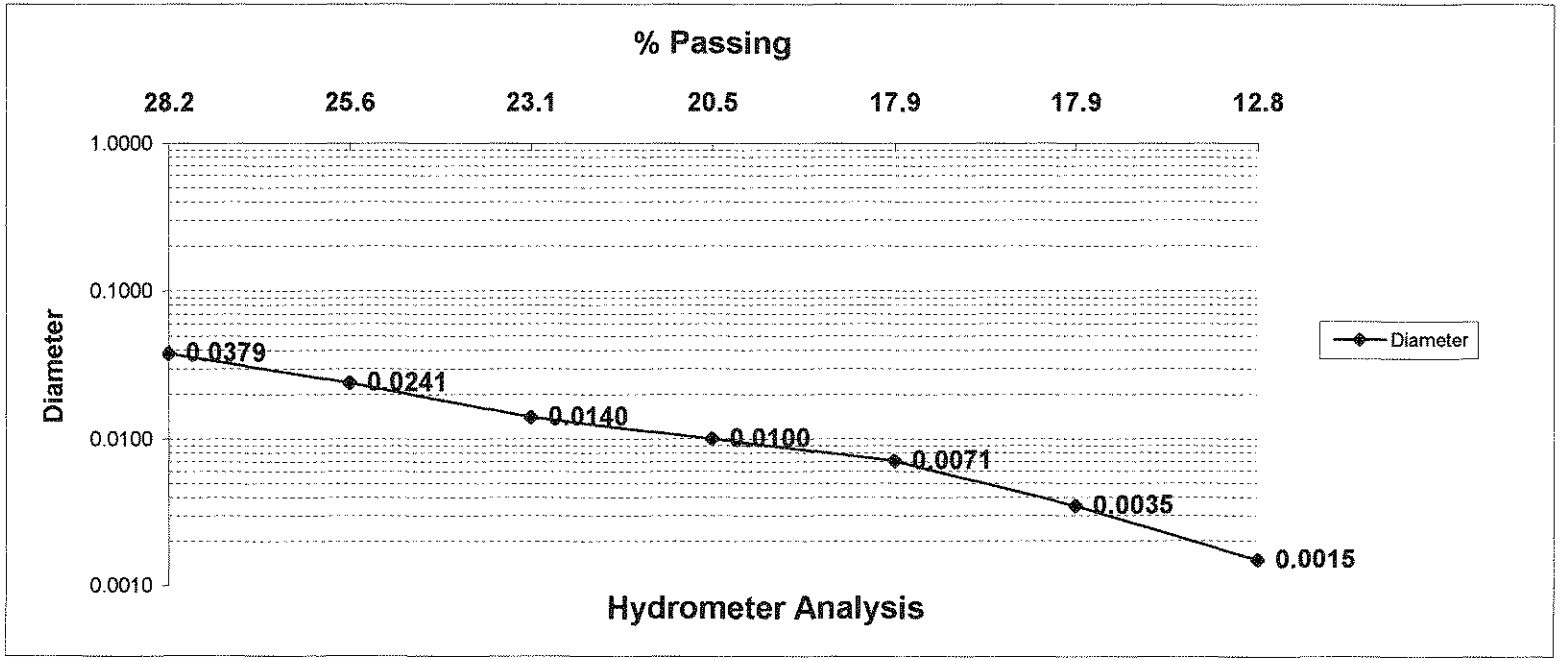
Determination of Silt/Clay Fraction

(10.2) T (Min)	**(10.2)** Hydro Reading	**(7.3)** Corr. Fact.	**(10.4)** Temp °C	**Table 1** Specific Gravity	H (Net)	**(14.3)** a	**Table 2** L Eff. Depth	**Table 3** K	**(14.3)** % Passing = H/Wa * 100	**(15.1)** Dia-meter
2	17	6	20	2.55	11	1.02	14.5	0.0140949	28.2	0.0379
5	16	6	20	2.55	10	1.02	14.7	0.0140949	25.6	0.0241
15	15	6	20	2.55	9	1.02	14.8	0.0140949	23.1	0.0140
30	14	6	20	2.55	8	1.02	15.0	0.0140949	20.5	0.0100
60	13	6	20	2.55	7	1.02	15.2	0.0140949	17.9	0.0071
250	13	6	20	2.55	7	1.02	15.2	0.0140949	17.9	0.0035
1440	11	6	19	2.55	5	1.02	15.5	0.0142695	12.8	0.0015

Comments:

ALS Group USA, Corp.
dba ALS Environmental

Sample Name: FTBL-SB03-28-30-020917
Lab Code: K1701419-003



ALS Group USA, Corp.
dba ALS Environmental

Sample Name :	FTBL-SB01-0-2-020717	Service Request:	K1701419
Lab Code:	K1701419-001DUP	Method:	D421 / D422
Client:	ARCADIS U.S., Inc.	Date Collected:	2/7/2017
Project:	1 Castner Firing Range/06261038.0001.00400	Date Received:	2/10/2017
Sample Matrix:	Soil	Date Analyzed:	2/16/2017

Sample Preparation (ASTM D421-85)

(1) Mass of total test sample. (g) (6.1) 40.3835

(3) Mass retained on the No. 4 sieve. (g) (6.2) 3.2010

(2) Coarse Material (6.2)

Coarse material + Tare. (g) 6.8760

Tare weight. (g) 1.3088

(4) Selected portion of fine material. (g) (7.1) 34.8198

Particle Analysis (ASTM D422-63)

Sieve Analysis Of Coarse Material. (6.1)

Gravel 19.0 mm	3/4"	0.0000
Gravel 9.50 mm	3/8"	0.0000
Gravel 4.75 mm	4	3.2010
Gravel 2.00 mm	10	2.3627

Sieve Analysis Of Fine Material. (11.1)

Gravel 0.850 mm	20	2.2898
Gravel 0.425 mm	40	2.9900
Gravel 0.250 mm	60	2.3931
Gravel 0.106 mm	140	9.8259
Gravel 0.075 mm	200	4.9430
Pan	-	0.2679

Analysis of fine material.

Hydrometer corrections. (7.3)

	Hydro 1	Hydro 2
Reading:	5	0

Hygroscopic moisture. (8.1)

Air dried (g)	10.0810
Tare (g)	1.2973
Oven dried + Tare	11.3458

Weight of Fine material

Dry wt.+Tare (g)	143.0395
Tare (g)	120.1842
Fine material (g)	22.8553

Thermometer ID# C65669

Sieve % & Sum 99.4% 22.7097

Determination of Silt/Clay Fraction. (10.2) (10.3) (10.4)

(10.2) T (Min)	(10.2) Hydro Reading	(7.3) Corr. Fact.	(10.4) Temp °C	Specific Gravity	Table 1 a	Table 3 K
2	12	5	20	2.51	1.03	0.01426
5	10		20			0.01426
15	10		20			0.01426
30	10		20			0.01426
60	9		20			0.01426
250	9		20			0.01426
1440	8		19			0.01444

Analyst: CCL Date: 2/16/2017

Reviewed by : Date: 2/23/17

Comments:

ALS Group USA, Corp.

dba ALS Environmental

Client:	ARCADIS U.S., Inc.	**Service Request:**	K1701419
Project:	Closed Castner Firing Range/06261038.0001.00400	**Date Collected:**	2/7/2017
Sample Matrix:	Soil	**Date Received:**	2/10/2017
		Date Analyzed:	2/16/2017

ASTM Method D422 Particle Size

Sample Name: FTBL-SB01-0-2-020717 **Lab Code:** K1701419-001DUP

Initial Weight of air-dried sample. **(6.1)**	40.3835
Mass retained on the No. 4 sieve. **(6.2)**	3.2010
Air-dried portion of fine material. **(7.1)**	34.8198

Course Sieving ASTM D421 (6.2)

Mass of coarse material (g)	5.5672
Percent Recovered	99.9

Coarse sieving (6.1)		**Sieve #**	**Weight (g)**	**% Passing**	**Mass Passing**
Gravel	19.0 mm	3/4"	0.0000	100.0	40.3800
Gravel	9.50 mm	3/8"	0.0000	100.0	40.3800
Medium Gravel	4.75 mm	4	3.2010	92.1	37.1790
Fine Gravel	2.00 mm	10	2.3627	86.2	34.8163
Fine sieving (11.1)					
V.C. Sand	0.850 mm	20	2.2898	80.5	32.4177
C. Sand	0.425 mm	40	2.9900	73.1	29.4277
M. Sand	0.250 mm	60	2.3931	67.2	27.0346
F. Sand	0.106 mm	140	9.8259	42.7	17.2087
V.F. Sand	0.075 mm	200	4.9430	30.5	12.2657 **(16.2)**

Calculated amount retained on the # 10 sieve. **(16.1)**	5.5498

Total Recovered (g)	40.2712
Total Recovered (%)	100.0

Hygroscopic Moisture (8.1)

Air-dried sample (g)	10.0810
Oven dried sample (g)	10.0485
Hygroscopic Moisture **(13.1)**	0.9968

(W) **(14.2)**	40.2574

Oven-Dried Sample used in hydrometer analysis. (g) **(14.1)**	34.7075

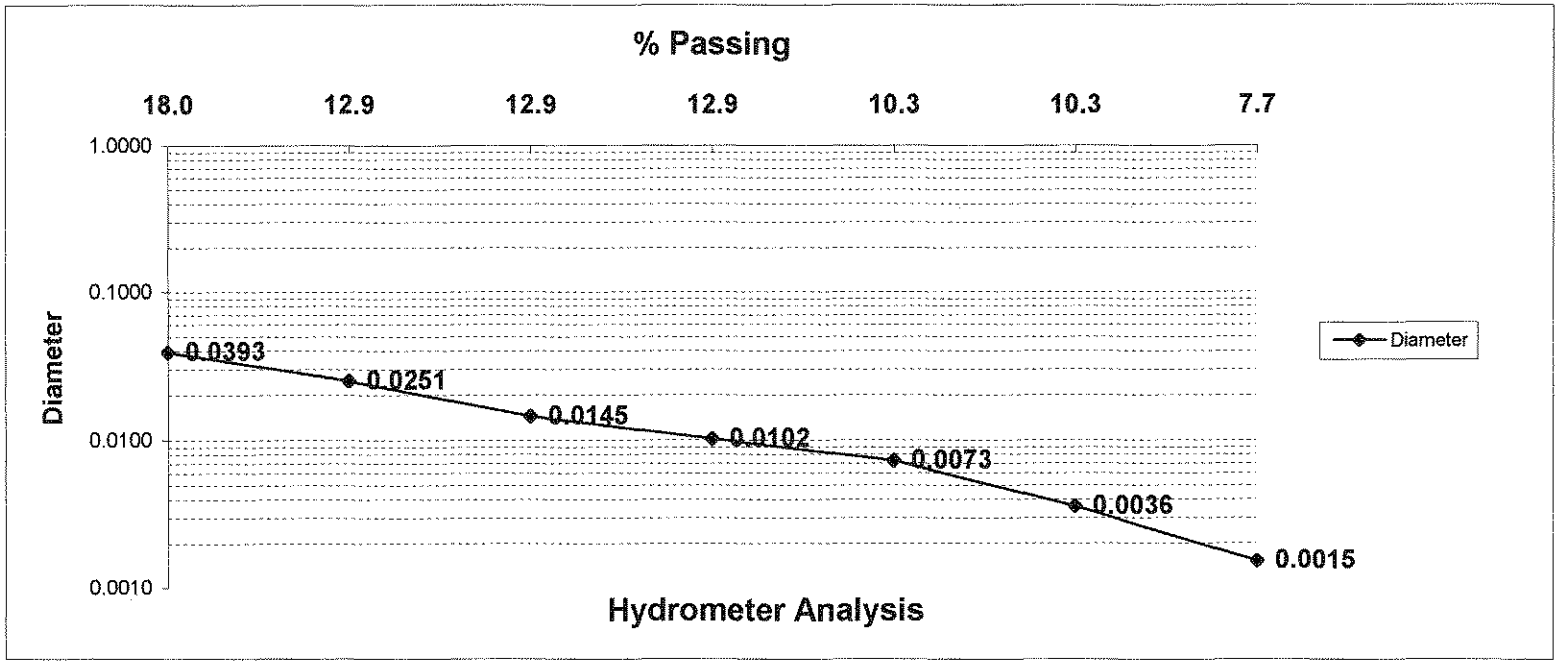
Determination of Silt/Clay Fraction

(10.2) T (Min)	**(10.2)** Hydro Reading	**(7.3)** Corr. Fact.	**(10.4)** Temp °C	**Table 1** Specific Gravity	H (Net)	**(14.3)** a	**Table 2** L Eff. Depth	**Table 3** K	**(14.3)** % Passing = H/Wa * 100	**(15.1)** Dia-meter
2	12	5	20	2.51	7	1.03	15.2	0.0142613	18.0	0.0393
5	10	5	20	2.51	5	1.03	15.5	0.0142613	12.9	0.0251
15	10	5	20	2.51	5	1.03	15.5	0.0142613	12.9	0.0145
30	10	5	20	2.51	5	1.03	15.5	0.0142613	12.9	0.0102
60	9	5	20	2.51	4	1.03	15.6	0.0142613	10.3	0.0073
250	9	5	20	2.51	4	1.03	15.6	0.0142613	10.3	0.0036
1440	8	5	19	2.51	3	1.03	15.8	0.0144377	7.7	0.0015

Comments:

ALS Group USA, Corp.
dba ALS Environmental

Sample Name: FTBL-SB01-0-2-020717
Lab Code: K1701419-001DUP



Columbia Analytical Services Inc.

Service Request #: K1701419 Method: ASTM D 854

Analysis For: Specific Gravity

Sample ID	Weight of DIW (Corrected) [W_a]	Weight of Wet sample (g)	Weight of Wet Sample and DIW(g) [W_b]	Specific Gravity	Total Solids	Weight of Dry sample (g) [W_o]	Weight of Dry sample & beaker (g)	Weight of beaker (g)
K1701419-001	99.7342	10.0795	105.8021	2.51	100.0%	10.0795		
K1701419-001DUP	99.7342	10.5074	106.1692	2.58	100.0%	10.5074		
K1701419-002	99.7342	9.7746	105.5557	2.47	100.0%	9.7746		
K1701419-003	99.7342	10.2351	105.9483	2.55	100.0%	10.2351		
	99.7342			#DIV/0!	#DIV/0!	0		
	99.7342			#DIV/0!	#DIV/0!	0		
	99.7342			#DIV/0!	#DIV/0!	0		
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Comments: **Weight of 100mL DIW (g) = 99.7342** Thermometer ID#

Correction Factor = 1

Water Temperature = 20

Temp. °C	Temp. Correction F
18	1.0004
19	1.0002
20	1.0000
21	0.9998
22	0.9996
23	0.9993

Specific Gravity = $W_o / [W_o + (W_a - W_b)]$

Analyzed By:	CCL	Date:	2/22/17
Reviewed By:		Date:	2/23/17

1419 Sp Grav.xls

10:18

(6) (5) (5) (6)

SR # 1c170141	1	Reading	Temp	10	Reading	Temp	2	Reading	Temp	3	Reading	Temp		Reading	Temp		Reading	Temp
Shake start(min)	00:00			~~00:04~~			~~00:10~~			~~00:14~~			00:20			00:24		
Shake end(min)	00:01			00:05			00:11			00:15			00:21			00:25		
Reading (min)											CCL 2/21							
2	00:03	12	20	00:07	12	20	00:13	12	20	00:17	~~12~~ 17	20	00:23			00:27		
5	00:06	10	20	00:10	10	20	00:16	11	20	00:20	16	20	00:26			00:30		
15	00:16	10	20	00:20	10	20	00:26	11	20	00:30	15	20	00:36			00:40		
30	00:31	10	20	00:35	10	20	00:41	11	20	00:45	14	20	00:51			00:55		
60	1:01	9	20	1:05	9	20	1:11	10	20	1:15	13	20	1:21			1:25		
14:29 250	4:11	9	20	4:15	9	20	4:21	10	20	4:25	13	20	4:31			4:35		
10:19 1440	24:01	8	19	~~24:05~~	8	19	~~24:11~~	9	19	~~24:15~~	11	19	~~24:21~~			~~24:25~~		

CCL 2/21/17

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Work Request # ( ) K1701419

Tier: IV

Date Analyzed: 3/3/2017

Analyst: (b) (6) [redacted]

Run # 536954

Analysis: Specific Gravity ASTM D854

DATA QUALITY REPORT
INORGANICS

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1.	Is the method name and number correct and appropriate?	yes/no/NA
2.	Holding times met for all analyses and for all samples?	yes/no/NA
3.	Are calculations correct?	yes/no/NA
4.	Is the reporting basis correct? (Dry Weight)	yes/no/NA
5.	All quality control criteria met?	yes/no
6.	Is the calibration curve correlation coefficient ≥ 0.995?	yes/no/NA
7.	MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency?	yes/no/NA
8.	Are ICVs, CCVs, and CCBs all within acceptance limits?	yes/no/NA
9.	Are results for methods blanks all ND?	yes/no/NA
10.	Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.)	yes/no/NA
11.	Are all exceptions explained?	yes/no/NA
12.	Have all applicable service requests been reviewed?	yes/no/NA
13.	Are all samples labeled correctly?	yes/no/NA
14.	Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample, Form V)	yes/no/NA
15.	Are detection limits and units reported correctly?	yes/no/NA
16.	Is the unused space on the benchsheet crossed out?	yes/no/NA
17.	Was analysis turned in by the due date? (n-2) (If not record SR#)	yes/no/NA

COMMENTS:

*Sample contents above a number 4 sieve were removed prior to analysis.

Final Approved by: [signature] Date: 3/3/17

DQREPORT

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Analytical Results Summary

Instrument Name: K-Balance-05 **Analyst:** ABUVEL **Analysis Lot:** 536954 **Method/Testcode:** ASTM D854/Sp Grav

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
K1701419-001	Specific Gravity	N/A		Soil	2.09 mg/L	g	2.09 NONE	1					3/3/17 11:53:00	N	IV
K1701419-002	Specific Gravity	N/A		Soil	1.44 mg/L	g	1.44 NONE	1					3/3/17 11:53:00	N	IV
K1701419-003	Specific Gravity	N/A		Soil	2.81 mg/L	g	2.81 NONE	1					3/3/17 11:53:00	N	IV
KQ1702416-02	Specific Gravity	DUP	K1701419-001	Soil	1.77 mg/L	g	1.77 NONE	1				17	3/3/17 11:53:00	N	IV

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

AB 3/3/2017

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Columbia Analytical Services Inc.

Service Request #: K1701419 Method: ASTM D 854-83

Analysis For: Specific Gravity Matrix: Soil / Solid

Sample Number	Tare	Tare +Sample	Tare,Sample + Water	sample Weight (Wo)	Water Weight (Wa)	Sample+ water Weight (Wb)	T (C)	Specific Gravity
MB	47.6510	NA	96.2978	NA	48.6468	NA	20.3	NA
K1701419-001	45.2274	47.4426	95.0305	2.2152	48.6468	49.8031	19.6	2.092
K1701419-001DUP	47.6247	49.5396	97.1014	1.9149	48.6468	49.4767	20.1	1.765
K1701419-002	48.8071	50.7844	98.0541	1.9773	48.6468	49.2470	20.5	1.436
K1701419-003	47.6420	49.5382	97.5112	1.8962	48.6468	49.8692	20.4	2.814
				0.0000	48.6468	0.0000		0.000
				0.0000	48.6468	0.0000		0.000
				0.0000	48.6468	0.0000		0.00
				0.0000	48.6468	0.0000		0.00
				0.0000	48.6468	0.0000		0.00
				0.0000	48.6468	0.0000		0.00
				0.0000	48.6468	0.0000		0.00
				0.0000	48.6468	0.0000		0.00
				0.0000	48.6468	0.0000		0.00
				0.0000	48.6468	0.0000		0.00
				0.0000	48.6468	0.0000		0.00
				0.0000	48.6468	0.0000		0.00
				0.0000	48.6468	0.0000		0.00
				0.0000	48.6468	0.0000		0.00
				0.0000	48.6468	0.0000		0.00
				0.0000	48.6468	0.0000		0.00
				0.0000	48.6468	0.0000		0.00
				0.0000	48.6468	0.0000		0.00
				0.0000	48.6468	0.0000		0.00
				0.0000	48.6468	0.0000		0.00
				0.0000	48.6468	0.0000		0.00
				0.0000	48.6468	0.0000		0.00
				0.0000	48.6468	0.0000		0.00

Calculation : $\frac{Wo}{[Wo + (Wa-Wb)]}$

Wo = Weight (Sample)
Wa = Water Weight
Wb = Sample + Water Weight

Comments: Balance# 41
Room temperature 19.9

Thermome(b) (6) [redacted]

Analyzed B		Date: 3/3/17	11:53:00
Reviewed		Date: 3/3/17	

*sample contents above a number 4 sieve were removed prior to analysis.

Work Request # ( ) K1701419

Tier: IV

Date Analyzed: 3/3/2017

Analyst: (b) (6) [redacted]

Run # 536974

Analysis: Bulk Density ASTM E1109-86

DATA QUALITY REPORT
INORGANICS

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1.	Is the method name and number correct and appropriate?	yes/no/NA
2.	Holding times met for all analyses and for all samples?	yes/no/NA
3.	Are calculations correct?	yes/no/NA
4.	Is the reporting basis correct? (Dry Weight)	yes/no/NA
5.	All quality control criteria met?	yes/no
6.	Is the calibration curve correlation coefficient ≥ 0.995?	yes/no/NA
7.	MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency?	yes/no/NA
8.	Are ICVs, CCVs, and CCBs all within acceptance limits?	yes/no/NA
9.	Are results for methods blanks all ND?	yes/no/NA
10.	Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.)	yes/no/NA
11.	Are all exceptions explained?	yes/no/NA
12.	Have all applicable service requests been reviewed?	yes/no/NA
13.	Are all samples labeled correctly?	yes/no/NA
14.	Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample, Form V)	yes/no/NA
15.	Are detection limits and units reported correctly?	yes/no/NA
16.	Is the unused space on the benchsheet crossed out?	yes/no/NA
17.	Was analysis turned in by the due date? (n-2) (If not record SR#)	yes/no/NA

COMMENTS:

Final Approved by: [signature] Date: 3/3/17

DQREPORT

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Analytical Results Summary

Instrument Name: K-Balance-05 **Analyst:** ABUVEL **Analysis Lot:** 536974 **Method/Testcode:** ASTM E1109-86/B Density

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
K1701419-001	Bulk Density	N/A		Soil	1.18 g/cm3	g	1.18 g/cm3	1					3/3/17 13:52:00	N	IV
K1701419-002	Bulk Density	N/A		Soil	1.29 g/cm3	g	1.29 g/cm3	1					3/3/17 13:52:00	N	IV
K1701419-003	Bulk Density	N/A		Soil	1.00 g/cm3	g	1.00 g/cm3	1					3/3/17 13:52:00	N	IV

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

AB 3/3/2017

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Service Request #: K1701419 Method: ASTM E1109-86

Analysis For: Bulk Density

Sample	Weight of Sample (g)	Bulk Density (g/cm^3)	Reported Bulk Density(g/cm3) as-received or drained weight*
K1701419-001	47.092	1.19	
DUP	46.643	1.18	1.1814641
K1701419-002	51.539	1.30	
DUP	50.458	1.27	1.2856008
K1701419-003	39.961	1.01	
DUP	39.417	0.99	1.0005042
		0.00	
DUP		0.00	0
		0.00	
DUP		0.00	0
		0.00	
DUP		0.00	0
		0.00	
DUP		0.00	0
		0.00	
DUP		0.00	0
		0.00	
DUP		0.00	0
		0.00	
DUP		0.00	0

* circle one

Comments: Instrument ID:K-BALANCE-15

Weight of 40ML bottle of DI Water = 39.669

Analyzed By:	AB	Date: 3/3/2017	13:52
Reviewed By:		Date: 3/3/17	

Revision 1-R:/WET/ANALYSIS/GRAINSIZE/Bulk density.

Work Request # Original (K1419)

Tier: 1°

Date Analyzed: (b) (6) [redacted]

Analyst:

Analysis: TC II (Soil)

Run # 535840

DATA QUALITY REPORT
INORGANICS

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1.	Is the method name and number correct and appropriate?	yes/no/NA
2.	Holding times met for all analyses and for all samples?	yes/no/NA
3.	Are calculations correct?	yes/no/NA
4.	Is the reporting basis correct? (Dry Weight)	yes/no/NA
5.	All quality control criteria met?	yes/no
6.	Is the calibration curve correlation coefficient ≥ 0.995?	yes/no/NA
7.	MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency?	yes/no/NA
8.	Are ICVs, CCVs, and CCBs all within acceptance limits?	yes/no/NA
9.	Are results for methods blanks all ND?	yes/no/NA
10.	Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.)	yes/no/NA
11.	Are all exceptions explained?	yes/no/NA
12.	Have all applicable service requests been reviewed?	yes/no/NA
13.	Are all samples labeled correctly?	yes/no/NA
14.	Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample, Form V)	yes/no/NA
15.	Are detection limits and units reported correctly?	yes/no/NA
16.	Is the unused space on the benchsheet crossed out?	yes/no/NA
17.	Was analysis turned in by the due date? (n-2) (If not record SR#)	yes/no/NA

COMMENTS:

Final Approved by: KF Date: 2/22/17

DQREPORT

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Analytical Results Summary

Instrument Name: K-UV-VIS-01 **Analyst:** THANGANU **Analysis Lot:** 535840 **Method/Testcode:** None/Misc Gen 1

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
K1701419-001	Unknown	N/A		Soil	0.00 mg/L	1.128 g	U	1					2/21/17 15:40:20	N	IV
K1701419-002	Unknown	N/A		Soil	0.00 mg/L	1.099 g	U	1					2/21/17 15:40:20	N	IV
K1701419-003	Unknown	N/A		Soil	0.00 mg/L	1.193 g	U	1					2/21/17 15:40:20	N	IV

02/23/17

[redacted]

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

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COLUMBIA ANALYTICAL SERVICES, INC.

Work Order #.: k1701419 Method: Lovey/Phillips - Modified

Analysis: (b) (6)

Date Prepared	Sample Name Lab Code	dilution	Initial Wt./Vol. (g) or (ml)	Final Volume (ml)	mg/L (in solution)	mg/L - mg/kg As Rec'd	% Solids	mg/kg Dry Wt.
2/21/2017	CCV1	1	50.000	50	4.1327	2.09		
2/21/2017	CCB1	1	50.0000	50	-0.0034	0.08		
2/21/2017	MB	1	1.0000	5	-0.0193	-0.10		
2/21/2017	k1701419-001	1	1.1280	5	-0.0290	-0.13	96.5	-0.1
2/21/2017	k1701419-001d	1	1.2410	5	-0.0239	-0.10	96.5	-0.1
2/21/2017	k1701419-002	1	1.0990	5	-0.0257	-0.12	94.3	-0.1
2/21/2017	k1701419-002d	1	1.1530	5	-0.0127	-0.06	94.3	-0.1
2/21/2017	k1701419-003	1	1.1930	5	-0.0245	-0.10	92.4	-0.1
2/21/2017	k1701419-003d	1	1.0230	5	-0.0288	-0.14	92.4	-0.2
2/21/2017	CCV2	1	50.0000	50	4.1256	4.13		
2/21/2017	CCB2	1	50.0000	50	-0.0258	-0.03		

Ext. sol.: 0.5N HCl

	Mean Fe2	
k1419-1/1d	0	RPD<1%
k1419-2/2d	0.0	RPD<1.%
k1419-3/3d	0	RPD<1%

(b) (6)

Prepared By:		Date Prepared:	2/21/2017	14:30
Analyzed By:		Date Analyzed:	2/21/2017	15:40
Reviewed By:		Date Reviewed:		2/22/17

(b) (6)

[redacted]

DU520 S/N: 0112U2001732 1.03
21-FEB-17 15:40:20 SCA Group 8677
Wavelength: 562.0 nm
Formula: A=a+bC a: 0.0146 b: 0.3958

Sample	Net A	Dil X	mg/L
0001	1.650	1.0000	4.1327
0002	0.001	1.0000	-0.0336
0003	0.003	1.0000	-0.0290
0004	0.005	1.0000	-0.0239
0005	0.004	1.0000	-0.0257
0006	0.010	1.0000	-0.0127
0007	0.005	1.0000	-0.0245
0008	0.003	1.0000	-0.0288
0009	0.007	1.0000	-0.0193
0010	1.648	1.0000	4.1256
0011	0.004	1.0000	-0.0258

CCV1
CCB1
K1419-1
-1d
-2
-2d
-3
-3d
MB
CCV2
CCB2

I.V.
1.128
1.241
1.099
1.152
1.193
1.023
1.000

F.V.
5ml

100 ppm Std ID#: 15-Gen-001-47-E
CCV, Curve ID#: 15-Gen-001-47-G
Extraction sol. 0.5N HCl ID#: 15 Gen-01 -47-F

(b) (6)) (6)

DU520 S/N: 0112U2001732 1.03
21-FEB-17 15:17:20 SCA
Wavelength: 562.0 nm
Formula: A=a+bC a: 0.0262 b: 0.3932

mg/L	Net A	r2=0.999 Var=0.0007
0.0000	0.000	
1.0000	0.438	
2.0000	0.814	
3.0000	1.220	
4.0000	1.625	
5.0000	1.959	

Analytical Results Summary

Instrument Name: K-BALANCE-50 **Analyst:** DMADDEN **Analysis Lot:** 534802 **Method/Testcode:** 160.3 Modified/TS

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed		
K1701419-001	Solids, Total	N/A		Soil	96.50 Percent	11.062 g	96.5 Percent	1					2/15/17 17:06	N	IV
K1701419-002	Solids, Total	N/A		Soil	94.30 Percent	10.799 g	94.3 Percent	1					2/15/17 17:06	N	IV
K1701419-003	Solids, Total	N/A		Soil	92.40 Percent	10.137 g	92.4 Percent	1					2/15/17 17:06	N	IV

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

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Work Request # Original (K1419)

Tier:

Date Analyzed: (b) (6) [redacted]

Analyst:

Run # 536602

Analysis: TOC/SOIL Walkley-Black

DATA QUALITY REPORT
INORGANICS

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1.	Is the method name and number correct and appropriate?	yes/no/NA
2.	Holding times met for all analyses and for all samples?	yes/no/NA
3.	Are calculations correct?	yes/no/NA
4.	Is the reporting basis correct? (Dry Weight)	yes/no/NA
5.	All quality control criteria met?	yes/no
6.	Is the calibration curve correlation coefficient ≥ 0.995?	yes/no/NA
7.	MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency?	yes/no/NA
8.	Are ICVs, CCVs, and CCBs all within acceptance limits?	yes/no/NA
9.	Are results for methods blanks all ND?	yes/no/NA
10.	Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.)	yes/no/NA
11.	Are all exceptions explained?	yes/no/NA
12.	Have all applicable service requests been reviewed?	yes/no/NA
13.	Are all samples labeled correctly?	yes/no/NA
14.	Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample, Form V)	yes/no/NA
15.	Are detection limits and units reported correctly?	yes/no/NA
16.	Is the unused space on the benchsheet crossed out?	yes/no/NA
17.	Was analysis turned in by the due date? (n-2) (If not record SR#)	yes/no/NA

COMMENTS:

Final Approved b (b) (6) [redacted] Date: 03/01/17

DQREPORT

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Analytical Results Summary

Instrument Name: K-Buret-03 **Analyst:** ACHEATLEY **Analysis Lot:** 536602 **Method/Testcode:** Walkley-Black/WB TOC T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	As Received*	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
K1701419-001	Carbon, Total Organic	N/A		Soil	5960.00 mg/Kg	5960.00	6200 mg/Kg	1	800	2100			3/1/17 11:30:00	N	IV
K1701419-002	Carbon, Total Organic	N/A		Soil	2506.00 mg/Kg	2506.00	2700 mg/Kg	1	800	2100			3/1/17 11:30:00	N	IV
K1701419-003	Carbon, Total Organic	N/A		Soil	1082.00 mg/Kg	1082.00	2200 mg/Kg U	1	800	2200			3/1/17 11:30:00	N	IV
KQ1702268-01	Carbon, Total Organic	DUP	K1701419-001	Soil	6285.00 mg/Kg	6285.00	6500 mg/Kg	1	800	2100		5	3/1/17 11:30:00	N	IV
KQ1702268-02	Carbon, Total Organic	MB		Soil	0.00 mg/Kg	0.00	2000 mg/Kg U	1	700	2000			3/1/17 11:30:00	N	IV
KQ1702268-03	Carbon, Total Organic	LCS		Soil	6292.00 mg/Kg	6292.00	6290 mg/Kg	1	700	2000	115		3/1/17 11:30:00	N	IV

[redacted]

* Not adjusted for changes in units.
# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

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Columbia Analytical Services Inc.

Service Request #: Method: Walkley/Black

Analysis For: Total Organic Carbon Matrix: Soil

Sample ID	Sample Wt. (g)	Titrant Used (mL)	% Organic Matter	Percent C (As Rec'd)	mg/Kg C (As Rec'd)	Total Solids (%)	mg/Kg C Dry
MB	-	24.85	-	< 0.2	< 2000		
LCS	0.5045	22.85	1.08	0.63	6292		
K1701419-001	0.5033	22.96	1.03	0.60	5960	96.5	6176
K1701419-001d	0.5076	22.84	1.08	0.63	6285	96.5	6513
K1701419-002	0.5067	24.05	0.43	0.25	2506	94.3	2657
K1701419-003	0.5133	24.50	0.19	0.11	1082	92.4	1171

Comments:

% OM = (Blank - Reading) x (13.6/Blank) x (0.50/sample wt) % Carbon = %OM x 0.58

LCS soil: APG# 542 Lot#D090-542 T.V. = 5820

0.4 N FAS ID #: TOCS/1-87-B

1 N K2Cr2O7 ID #: TOCS/1-84-R

(b) (6) [redacted]

Analyzed By: ac Date: 3-1-17 11:30 AM

Reviewed By: Date: 03/01/17

3-1-17 WB

Metals

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Preparation Information Benchsheet

Prep Run: 281669 **Prep Workflow**: MetDigSICP **Status**: Prepped **Prep Date**: 02/15/2017 10:57
Team: Metals **Prep Method**: EPA 3050B **Current Step**: Digestion **Due Date**: 03/02/2017
Analyst: DMADDEN **Rush/NPDES**: N/A **Hold Date**: 08/06/2017

Lab Code	Client ID	Bottle #	Initial Amt	Initial Basis	Final Volume	Spike Amt	Spike ID	Comments
KQ1701633-02	Method Blank		1.00 g	As received	100 mL			10% HNO3, 10%HCl; JHINSON K-Balance-02
KQ1701633-01	Lab Control Sample		1.00 g	As received	100 mL	2 mL 1 mL 1 mL 1 mL	177744 178641 178642 179314	10% HNO3, 10%HCl; JHINSON K-Balance-02
K1701419-001	FTBL-SB01-0-2-020717	.04	1.017 g	As received	100 mL			10% HNO3, 10%HCl; DMadden K-Balance-50
K1701419-001: KQ1701633-03	Matrix Spike	.04	1.055 g	As received	100 mL	2 mL 1 mL 1 mL 1 mL	177744 178641 178642 179314	10% HNO3, 10%HCl; DMadden K-Balance-50
K1701419-001: KQ1701633-04	Duplicate Matrix Spike	.04	1.064 g	As received	100 mL	2 mL 1 mL 1 mL 1 mL	177744 178641 178642 179314	10% HNO3, 10%HCl; DMadden K-Balance-50
K1701419-002	FTBL-SB03-2-4-020817	.04	1.027 g	As received	100 mL			10% HNO3, 10%HCl; DMadden K-Balance-50
K1701419-003	FTBL-SB03-28-30-020917	.04	1.166 g	As received	100 mL			10% HNO3, 10%HCl; DMadden K-Balance-50

7 Total Samples consisting of 3 Client Samples, 2 Client QC Samples, 2 Batch QC Samples associated with the current Prep Run.

Spiking Solutions

Name	Type	ID	Expires	Name	Type	ID	Expires
K-MET SS1	Spike	177744	4/8/2017	K-MET SS4	Spike	178642	8/15/2017
K-MET SS3	Spike	178641	3/18/2017	K-MET SS5	Spike	179314	6/4/2017

Preparation Materials

Step	Name	ID	Step	Name	ID
Digestion	Teflon Chips	80163	Digestion	K-MET 100ml Centrifuge Tube	178771
Digestion	K-MET H2O2	175797	Digestion	K-MET HNO3	179179
Digestion	K-MET HCL	178073	Weigh	K-MET 100ml Centrifuge Tube	175825

Preparation Hardware / Equipment

Step	Name	Property	Value		Step	Name	Property	Value	
Digestion	K-Balance-02	Date Checked	2/15/2017		Digestion	K-BlockDigester-07	Observed Temperature	95	deg C
Digestion	K-BlockDigester-07	Corrected Temperature	95	deg C	Digestion	K-BlockDigester-07	Thermometer ID 6402142		NONE
Digestion	K-BlockDigester-07	Correction Factor	0	deg C	Digestion	K-BlockDigester-07	Thermometer Location	29	NONE

Preparation Steps

Step	Started	Finished	By	Assisted By	Training?	Comments
	15-FEB-17 10:57	15-FEB-17 11:15				
Weigh			DMADDEN		N	

Digestion	15-FEB-17 14:38	15-FEB-17 17:56	JHINSON	N

Comments

R1: 15 min; R2: 150 min; R3: 15 min

Review

Reviewed by: (b) (6) Date: 2/16/17

METALS SPIKING SOLUTIONS CONCENTRATIONS FORM

Solution Name	Element	mLs of 1000ppm Solution	Final Volume	Solution Conc. mg/L	Enter mls Added
K-MET SS1 *** Add after HNO3 and before ALS-89 when making the solution	HNO3	50.0	1000ml	-	
	Al	100*	1000ml	200	
	Ag	100*	1000ml	5	
	Ba	100*	1000ml	100	
	Be	100*	1000ml	5	
	Cd	100*	1000ml	5	
	Co	100*	1000ml	50	
	Cr	100*	1000ml	20	
	Cu	100*	1000ml	25	
	Fe	100*	1000ml	100	
	Pb	100*	1000ml	50	
	Mn	100*	1000ml	50	
	Ni	100*	1000ml	50	
	Sb***	50	1000ml	50	
	V	100*	1000ml	50	
	Zn	100*	1000ml	50	
K-MET SS2	HNO3	25.0	500ml	-	
	As	2.0	500ml	4	
	Cd	2.0	500ml	4	
	Pb	2.0	500ml	4	
	Se	2.0	500ml	4	
	Tl	2.0	500ml	4	
	Cu	2.0	500ml	4	
K-MET SS3	HNO3	25.0	500ml	-	
	As	50.0	500ml	100	
	Se	50.0	500ml	100	
	Tl	10.0	500ml	20	
	Hg	6	500	12	
K-MET SS4	HNO3	25	500ml	-	
	B	50	500ml	100	
	Mo	50	500ml	100	
K-MET SS5	HNO3	10.0	200ml	-	
	K**	20	200ml	1000	
	Na**	20	200ml	1000	
	Mg**	20	200ml	1000	
	Ca**	20	200ml	1000	
K-MET GFLCSW	HNO3	10.0	1000ml	-	
	As, Pb, Se, Tl	5.0	1000ml	2.5	
	Cd	-	-	1.25	
	Cu	2.5	1000ml	2.5	
K-MET QCP-CICV-1	Ca, Mg, Na, K	no dilution	-	2500	
	Al, Ba	no dilution	-	1000	
	Fe	no dilution	-	500	
	Co, Mn, Ni, V, Zn	no dilution	-	250	
	Cu, Ag	no dilution	-	125	
	Cr	no dilution	-	100	
	Be	no dilution	-	25	
K-MET QCP-CICV-3	As, Pb, Se, Tl	no dilution	-	500	
	Cd	no dilution	-	250	

* Denotes volume of mixed stock standard.
** Denotes 10,000 ppm individual stock standards.

Standard	mls of standard	ppm	Logbook #	Exp. Date

Prep Run: 281669 **Prep Workflow:** MetDigSICP **Status:** Draft **Prep Date:** 02/15/2017 12:55
Team: Metals **Prep Method:** EPA 3050B **Current Step:** Weigh **Due Date:** 02/23/2017
Analyst: (b) (6) **ush/NPDES:** N/A **Hold Date:** 08/06/2017

* DOD 5.0

Lab Code	Client ID	Bottle #	Target Amt	Initial Amt	Initial Basis	Final Volume	Spike Amt	Spike ID	Comments
KQ1701633-02	Method Blank		1 g	1.08					
KQ1701633-01	Lab Control Sample		1 g	1.02			2 mL 1 mL 1 mL 1 mL	177744 178641 178642 179314	
K1701419-001	FTBL-SB01-0-2-020717	.04	1 g						
K1701419-001: KQ1701633-03	Matrix Spike	.04	1 g				2 mL 1 mL 1 mL 1 mL	177744 178641 178642 179314	
K1701419-001: KQ1701633-04	Duplicate Matrix Spike	.04	1 g				2 mL 1 mL 1 mL 1 mL	177744 178641 178642 179314	
K1701419-002	FTBL-SB03-2-4-020817	.04	1 g						
K1701419-003	FTBL-SB03-28-30-020917	.04	1 g						

7 Total Samples consisting of 3 Client Samples, 2 Client QC Samples, 2 Batch QC Samples associated with the current Prep Run.

Balance 2 ✓ 2/15/17

Spiking Solutions

Name	Type	ID	Expires	Name	Type	ID	Expires
K-MET SS1	Spike	177744	4/8/2017	K-MET SS4	Spike	178642	8/15/2017
K-MET SS3	Spike	178641	3/18/2017	K-MET SS5	Spike	179314	6/4/2017

tubes 1605323
HNO3 0000152495
H2O2 55314549
HCl 0000139084

R1 238 - 253
R2 2:58 328
H_2O_2 337 537
R3 5:41 - 5:56

Preparation Materials

Preparation Hardware / Equipment

Preparation Steps

Step	Started	Finished	By	Assisted By	Training?	Comments
Weigh	2/15/17 10:57A	2/15/17 11:15A	DMADDEN			

LD. 2/15/17

Pre-Prep Information Benchsheet

Prep Run #: 281651 **Prep Method:** **Team:** **Prep Due Date:**

#	Lab Code	Bottle	Test Name	Weight	Sample Comments	Test Comments
1	K1701419-001	.01	Metals T	1.017g		PrepComments:DMadden K-Balance-50
2	K1701419-002	.01	Metals T	1.027g		PrepComments:DMadden K-Balance-50
3	K1701419-003	.01	Metals T	1.166g		PrepComments:DMadden K-Balance-50
4	K1701419-001 MS KQ1701615-01	.01	Metals T	1.055g		PrepComments:DMadden K-Balance-50
5	K1701419-001 DMS KQ1701615-02	.01	Metals T	1.064g		PrepComments:DMadden K-Balance-50

Lot# 1512329-6189-QK

*% Solids is a calculated field meant solely as a reference value for verifying the presence of Total Solids in calculations

016353
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11/01/2018

Service Request # K1701517, K1701419, K1701512, K1701537, K1701483, K1701495, K1701498, K1701547, K1701689, K1701730, K1701731, K1701281, K1701665, K1701739 #4-5, K1701852, K1701636, K1701739 #1-3, K1701750, K1701313 #2-3, K1701383_____

Instrument ID# K-ICP-AES-04
Calibration 030117AICP04
ALS LIMS Run # 536603

ICP-OES Data Review Form

		Yes	No
1.	Appropriate standardization completed	X	
2.	ICV within control limits	X	
3.	CCV's in control	X	
4.	ICB/CCB's below MRL	X	
4.	LLICV standard analyzed and in control	X	
5.	ICS standards within 20% of true value	X	
6.	All analytes within instrument linear range	X	
7.	Adequate rinse out time allowed	X	
8.	Was the run terminated? If so, why.		X

See Benchsheet exception report for sample batch QC information.
Comments: NR Al3944, B.
200.7: NR Al3944, B.
6010 : NR Ti. MRL=2X for Co.
After 14:56 raise MRL Na=0.3ppm.
After 12:19 6010 MRL=2X for Pb, Na, Tl.
After 16:29 6010 MRL=2X for Ag, S.
After 17:05 NR Si.

Primary Review by (b) (6) Date 3/2/17

Secondary Review by _____ Date 3/2/17

Data Review Form

Instrument ID#: **K-ICP-AES-04**
DataFile Name: **R:\ICP\WIP\DATA\K-ICP-AES-04\030117AICP04.txt**
RUNNO: **536603**

K1701281

K1701281-001PS - Metals T - 6010C
PS Recovery
6010C/Metals T - Pb2203 - Recovery: 79 Limits: 80 - 120 Serial dilution & MS okay

K1701313

K1701313-003MS - Metals TCLP - 6010C
MS Recovery
6010C/Metals TCLP - Se1960 - Recovery: 67 Limits: 75 - 125 post spike okay

K1701383

No exceptions to report.

K1701419

No exceptions to report.

K1701483

No exceptions to report.

K1701495

No exceptions to report.

K1701498

No exceptions to report.

K1701512

No exceptions to report.

K1701517

No exceptions to report.

K1701537

No exceptions to report.

K1701547

No exceptions to report.

Primary Approve (b) (6) 3/2/17
Secondary Approve

Data Review Form

Instrument ID#:	**K-ICP-AES-04**
DataFile Name:	**R:\ICP\WIP\DATA\K-ICP-AES-04\030117AICP04.txt**
RUNNO:	**536603**

K1701636

K1701636-001MS - Metals T - 6010C

Linear Range Evaluation

Ca3933 is out of Linear Range Linear range = 15 ppm

K1701665

KQ1701944-02MB - Metals T - 6010C

MB Evaluation

6010C/Metals T - Sr4077 - Result: 1.743 MRL: 1.05 Samples 10X

K1701689

No exceptions to report.

K1701730

No exceptions to report.

K1701731

No exceptions to report.

K1701739

KQ1701944-02MB - Metals T - 6010C

MB Evaluation

6010C/Metals T - Sr4077 - Result: 1.743 MRL: 1.05 Samples 10X

K1701852

K1701852-001PS - Metals T - 6010C

PS Recovery

6010C/Metals T - Mg2852 - Recovery: 73 Limits: 80 - 120 MS okay

Sample Name: BLK Acquired: 3/1/2017 9:14:43 Type: Cal
Method: 2017A-ICP04(v4) Mode: IR Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: INT. STD. ICP16-37-F

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0044	-12.15	.4266	.2167	.0108	1.4464	1004.
Stddev	.0001	2.28	.3520	.8720	.0028	1.0565	5.
%RSD	1.296	18.74	82.50	402.5	25.71	73.046	.5303
#1	.0043	-13.76	.1778	-.4000	.0088	2.1934	1008.
#2	.0044	-10.54	.6755	.8333	.0127	.69930	1000.

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0002	-.0004	.0010	.0441	.0001	-.0006	.0003
Stddev	.0004	.0002	.0010	.0010	.0002	.0002	.0003
%RSD	176.1	44.07	101.6	2.272	238.3	37.42	132.7
#1	-.0001	-.0005	.0017	.0448	.0000	-.0004	.0000
#2	.0005	-.0003	.0003	.0434	.0002	-.0007	.0005

Elem	Cu3273	Fe2599	Pb2203	Li6707	Mg2790	Mg2795	Mg2852
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	14.07	.0004	.0000	-17.11	-.0003	.0003	1.725
Stddev	.73	.0007	.0002	5.60	.0006	.0011	1.662
%RSD	5.156	153.6	659.5	32.75	243.3	385.0	96.33
#1	13.56	.0009	-.0001	-21.07	-.0007	.0010	.5500
#2	14.59	.0000	.0002	-13.15	.0002	-.0005	2.900

Elem	Mn2576	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00003	.0000	.0002	-.0002	.0005	-71.89	-.4497
Stddev	.00001	.000	.0002	.0004	.0000	14.16	.1911
%RSD	31.669	141.4	100.00	195.0	4.130	19.69	42.50
#1	.00004	.0000	.0001	-.0005	.0005	-81.90	-.5848
#2	.00003	.0000	.0003	.0001	.0006	-61.88	-.3145

Sample Name: BLK Acquired: 3/1/2017 9:14:43 Type: Cal
Method: 2017A-ICP04(v4) Mode: IR Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: INT. STD. ICP16-37-F

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.9687	-10.55	-56.07	-.01261	-.0004	.0002	.0081
Stddev	2.048	1.25	5.06	.00044	.0001	.0002	.0002
%RSD	211.4	11.84	9.016	3.5083	16.80	68.98	2.208
#1	-.4792	-9.671	-59.65	-.01292	-.0004	.0004	.0080
#2	2.417	-11.44	-52.50	-.01230	-.0003	.0001	.0083

Elem	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.0001	.0000	.9949	.0004	7.967
Stddev	.0000	.0001	.6670	.0002	.374
%RSD	41.00	374.6	67.04	52.61	4.699
#1	-.0001	.0000	1.467	.0006	8.232
#2	.0000	.0001	.5233	.0003	7.702

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2084.0	37293.	2574.9
Stddev	8.7	17.	10.2
%RSD	.41981	.04514	.39693
#1	2090.2	37304.	2567.7
#2	2077.8	37281.	2582.2

AM
3/1/17

Sample Name: STD A Acquired: 3/1/2017 9:17:09 Type: Cal
Method: 2017A-ICP04(v4) Mode: IR Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: ICP16-34-A

Elem	Al1670	Sb2068	Be2348	B_2496	Cd2144	Cd2265	Ca3933	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0278	75.13	7078.8	1808.	1.017	.8093	19.23	.0525
Stddev	.0001	.65	32.3	10.	.000	.0014	.08	.0001
%RSD	.4587	.8658	.45639	.5644	.0257	.1700	.4191	.1914
#1	.0279	74.67	7101.6	1801.	1.016	.8102	19.28	.0524
#2	.0277	75.59	7056.0	1816.	1.017	.8083	19.17	.0525

Elem	Co2307	Cu2247	Cu3273	Pb2203	Mg2795	Mn2576	Mo2020	Ni2216
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.3282	.1902	2421.	.0649	1.382	.28504	.2368	.3546
Stddev	.0003	.0009	19.	.0003	.003	.00014	.0004	.0003
%RSD	.0838	.4749	.7748	.4089	.1793	.04786	.1576	.0773
#1	.3284	.1909	2434.	.0647	1.383	.28495	.2370	.3545
#2	.3280	.1896	2407.	.0651	1.380	.28514	.2365	.3548

Elem	Se1960	Ag3280	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	42.71	2792.	.0343	.0856	.2780	.0762	.3848	1148.
Stddev	1.00	3.	.0002	.0001	.0011	.0003	.0002	2.
%RSD	2.338	.0957	.5102	.0877	.3861	.3908	.0408	.1510
#1	43.42	2794.	.0341	.0855	.2788	.0760	.3849	1150.
#2	42.01	2790.	.0344	.0857	.2773	.0764	.3847	1147.

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2085.8	37047.	2538.5
Stddev	.9	130.	2.2
%RSD	.04377	.35205	.08679
#1	2085.2	37139.	2540.1
#2	2086.5	36954.	2537.0

Sample Name: STD B Acquired: 3/1/2017 9:19:23 Type: Cal
Method: 2017A-ICP04(v4) Mode: IR Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: ICP16-32-A

Elem	Al3944	As1890	Ba4554	Ca3158	Fe2599	Li6707	Mg2790	Mg2852
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	61710.	251.2	205.1	1.068	1.592	20430.	.1804	14510.
Stddev	88.	1.1	1.1	.000	.003	51.	.0011	74.
%RSD	.1430	.4354	.5201	.0156	.1900	.2512	.6049	.5089
#1	61780.	250.4	204.4	1.068	1.594	20470.	.1812	14560.
#2	61650.	251.9	205.9	1.068	1.590	20400.	.1797	14460.

Elem	Mn2605	P_1782	K_7664	Si2516	Na5895	Sr4077	Bi2230	S_1820
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0455	.6992	8114.	1544.	26920.	24.839	.2305	125.4
Stddev	.0002	.0019	11.	12.	16.	.011	.0003	.3
%RSD	.4461	.2733	.1368	.7629	.0590	.04479	.1495	.2221
#1	.0456	.6978	8122.	1552.	26910.	24.847	.2308	125.2
#2	.0454	.7005	8106.	1535.	26930.	24.831	.2303	125.6

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2046.3	35867.	2524.7
Stddev	.9	77.	.8
%RSD	.04262	.21502	.03184
#1	2045.6	35812.	2525.3
#2	2046.9	35921.	2524.1

Sample Name: ICVB Acquired: 3/1/2017 9:21:51 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: ICP16-35-A

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9805	1.052	.0015	-.0018	.0008	-.00025	1.986	.0001
Stddev	.0062	.002	.0016	.0001	.0001	.00023	.010	.0001
%RSD	.6324	.2050	106.4	4.023	9.342	92.413	.5101	60.33
#1	.9849	1.051	.0004	-.0018	.0008	-.00041	1.993	.0001
#2	.9761	1.054	.0026	-.0017	.0007	-.00009	1.979	.0002
Check ?	Chk Pass	None	None	None	None	None	Chk Pass	None
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	5.020	4.949	.0016	.0006	.0005	.0002	10.06
Stddev	.0002	.078	.090	.0005	.0004	.0002	.0008	.07
%RSD	74.42	1.558	1.826	32.73	80.04	37.27	317.8	.7085
#1	.0001	5.075	5.013	.0019	.0002	.0004	-.0003	10.11
#2	.0004	4.964	4.885	.0012	.0009	.0006	.0008	10.01
Check ?	None	None	Chk Pass	None	None	None	None	None
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0022	1.993	5.370	4.890	5.146	9.5660	10.01	-.0001
Stddev	.0037	.042	.001	.043	.067	.0072	.14	.0007
%RSD	168.1	2.103	.0093	.8709	1.295	.07481	1.401	751.3
#1	.0004	1.963	5.369	4.920	5.099	9.5710	9.913	.0004
#2	-.0048	2.023	5.370	4.859	5.193	9.5609	10.11	-.0006
Check ?	None	Chk Pass	None	Chk Pass	None	None	Chk Pass	None
Value								
Range								

Sample Name: ICVB Acquired: 3/1/2017 9:21:51 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: ICP16-35-A

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	4.975	.0040	.0063	5.055	.0014	14.06	2.0263
Stddev	.0001	.027	.0064	.0008	.008	.0006	.27	.0067
%RSD	267.1	.5480	161.5	12.08	.1575	43.63	1.940	.33044
#1	.0000	4.956	.0085	.0068	5.060	.0018	13.87	2.0311
#2	.0001	4.994	-.0006	.0057	5.049	.0010	14.26	2.0216
Check ?	None	Chk Pass	None	None	Chk Pass	None	None	Chk Pass
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0008	4.926	-.0002	.0010	.0004	.0002	5.201	5.024
Stddev	.0027	.004	.0005	.0010	.0002	.0001	.023	.000
%RSD	341.3	.0818	265.6	105.7	48.85	37.54	.4493	.0055
#1	.0011	4.929	-.0006	.0002	.0005	.0001	5.185	5.024
#2	-.0027	4.923	.0002	.0017	.0002	.0002	5.218	5.024
Check ?	None	Chk Pass	None	None	None	None	None	None
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2072.2	36580.	2576.7
Stddev	1.9	3.	56.1
%RSD	.09220	.00918	2.1755
#1	2073.6	36582.	2537.1
#2	2070.9	36577.	2616.3

Sample Name: ICV Acquired: 3/1/2017 9:24:16 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: ICP16-30-A

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.273	5.158	2.447	2.500	4.960	.12297	.0334	1.227
Stddev	.014	.058	.006	.004	.012	.00055	.0024	.001
%RSD	.3255	1.115	.2528	.1782	.2413	.44935	7.128	.0421
#1	4.283	5.199	2.451	2.503	4.968	.12336	.0350	1.226
#2	4.263	5.118	2.442	2.496	4.951	.12258	.0317	1.227
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.216	12.42	12.16	.4914	1.229	.6130	.6032	2.481
Stddev	.002	.01	.08	.0014	.002	.0015	.0049	.015
%RSD	.1523	.0770	.6264	.2897	.1218	.2400	.8059	.5846
#1	1.215	12.42	12.11	.4924	1.230	.6141	.6067	2.491
#2	1.218	12.41	12.22	.4904	1.228	.6120	.5998	2.471
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.394	.0008	12.68	11.67	12.64	1.2155	1.248	1.034
Stddev	.008	.0003	.01	.00	.07	.0013	.003	.002
%RSD	.3364	38.54	.1171	.0107	.5839	.10342	.2497	.1795
#1	2.400	.0006	12.67	11.68	12.59	1.2146	1.246	1.035
#2	2.389	.0011	12.70	11.67	12.69	1.2164	1.250	1.033
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass
Value								
Range								

Sample Name: ICV Acquired: 3/1/2017 9:24:16 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: ICP16-30-A

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.211	.0013	12.51	2.440	-.0153	.5985	12.47	.00022
Stddev	.001	.0044	.03	.001	.0212	.0004	.04	.00016
%RSD	.0595	341.6	.2618	.0442	138.2	.0735	.3229	72.660
#1	1.210	-.0018	12.48	2.439	-.0303	.5988	12.44	.00011
#2	1.211	.0044	12.53	2.440	-.0004	.5982	12.50	.00033
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.380	.0044	1.984	1.246	1.227	1.209	.0079	-.0062
Stddev	.005	.0012	.015	.006	.002	.001	.0029	.0058
%RSD	.2163	26.75	.7489	.4957	.1750	.0935	36.10	92.54
#1	2.376	.0035	1.995	1.250	1.225	1.209	.0059	-.0022
#2	2.384	.0052	1.974	1.241	1.228	1.210	.0099	-.0103
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2063.9	36484.	2587.8
Stddev	1.2	3.	13.3
%RSD	.05588	.00799	.51430
#1	2063.1	36486.	2578.4
#2	2064.7	36482.	2597.2

Sample Name: ICB Acquired: 3/1/2017 9:26:31 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0021	-.0001	.0053	.0012	-.00012	F -.0231
Stddev	.0021	.0004	.0044	.0009	.0006	.00012	.0010
%RSD	2155.	20.54	4109.	17.68	45.03	100.48	4.209
#1	-.0014	.0025	-.0032	.0046	.0016	-.00020	-.0238
#2	.0016	.0018	.0030	.0060	.0008	-.00003	-.0224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.0200
Low Limit							-.0200

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0002	.0145	.0025	.0001	.0006	-.0001
Stddev	.0001	.0001	.0102	.0022	.0007	.0005	.0003
%RSD	73.10	26.76	70.22	86.09	538.1	79.26	318.1
#1	.0001	.0003	.0217	.0041	.0006	.0009	-.0003
#2	.0002	.0002	.0073	.0010	-.0003	.0003	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cu3273	Fe2599	Pb2203	Li6707	Mg2790	Mg2795	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	.0081	-.0007	.0018	.0241	.0021	.0024
Stddev	.0000	.0065	.0015	.0005	.1123	.0015	.0046
%RSD	4.596	80.21	214.7	29.32	465.0	71.80	191.7
#1	-.0008	.0126	-.0017	.0021	.1036	.0032	.0057
#2	-.0007	.0035	.0004	.0014	-.0553	.0010	-.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

NR- see rerun
am 3/1/17

Sample Name: ICB Acquired: 3/1/2017 9:26:31 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Mn2576	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00009	.0011	.0030	.0001	-.0031	-.0214	.0121
Stddev	.00017	.0084	.0005	.0006	.0020	.0214	.0020
%RSD	196.29	773.7	17.82	464.5	63.22	100.1	16.98
#1	-.00021	-.0048	.0026	-.0003	-.0045	-.0365	.0106
#2	.00003	.0070	.0034	.0006	-.0017	-.0062	.0135
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0253	.0001	.0139	.00002	.0041	-.0004	.0005
Stddev	.0061	.0008	.0126	.00016	.0008	.0014	.0003
%RSD	24.20	551.8	90.94	693.21	19.87	360.2	59.62
#1	-.0209	-.0004	.0228	.00014	.0036	-.0014	.0007
#2	-.0296	.0007	.0049	-.00009	.0047	.0006	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0001	.0000	-.0001	-.0053
Stddev	.0001	.0000	.000	.0017	.0009
%RSD	41.88	23.03	1063.	1373.	17.85
#1	.0002	.0001	-.0002	-.0013	-.0046
#2	.0001	.0001	.0001	.0011	-.0059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

NR- see resub
am 3/1/17

Sample Name: ICB Acquired: 3/1/2017 9:26:31 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2083.6	37183.	2549.9
Stddev	6.3	115.	2.3
%RSD	.30194	.30810	.08909
#1	2079.1	37102.	2548.3
#2	2088.0	37264.	2551.5

NR-see rerun
Gm 3/1/17

Sample Name: ICB Acquired: 3/1/2017 9:30:11 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: RERUN

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0022	-.0009	.0002	-.0040	.0004	-.00002	F -.0285
Stddev	.0022	.0003	.0036	.0034	.0004	.00007	.0010
%RSD	100.1	26.64	2008.	85.77	99.75	399.30	3.447
#1	-.0006	-.0011	-.0024	-.0016	.0001	-.00007	-.0278
#2	-.0037	-.0008	.0027	-.0064	.0006	.00003	-.0292
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.0200
Low Limit							-.0200

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0004	.0072	.0000	.0001	.0006	-.0002
Stddev	.0001	.0001	.0032	.0000	.0012	.0004	.0018
%RSD	316.6	14.71	45.11	219.3	1008.	59.81	877.3
#1	.0001	.0003	.0095	.0000	.0010	.0008	.0011
#2	.0000	.0004	.0049	.0000	-.0008	.0003	-.0015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cu3273	Fe2599	Pb2203	Li6707	Mg2790	Mg2795	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	-.0026	-.0004	.0014	-.0585	-.0002	-.0002
Stddev	.0005	.0029	.0019	.0008	.0187	.0000	.0058
%RSD	116.3	110.0	463.6	55.62	31.91	.5056	2393.
#1	.0001	-.0047	.0009	.0019	-.0453	-.0002	.0038
#2	.0008	-.0006	-.0018	.0008	-.0718	-.0002	-.0043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: ICB Acquired: 3/1/2017 9:30:11 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: RERUN

Elem	Mn2576	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00012	.0010	.0003	-.0004	-.0041	.0128	.0065
Stddev	.00008	.0005	.0004	.0003	.0046	.0221	.0012
%RSD	69.951	51.56	157.9	84.15	110.9	172.1	18.50
#1	-.00017	.0013	.0000	-.0001	-.0009	.0284	.0073
#2	-.00006	.0006	.0006	-.0006	-.0073	-.0028	.0056
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0076	.0017	.0031	-.00018	.0017	-.0002	-.0003
Stddev	.0092	.0008	.0117	.00020	.0008	.0013	.0000
%RSD	119.9	45.51	374.9	116.45	44.25	760.3	6.690
#1	-.0141	.0023	.0114	-.00003	.0012	.0007	-.0003
#2	-.0012	.0012	-.0052	-.00032	.0022	-.0011	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0001	-.0002	.0002	.0065
Stddev	.0008	.0003	.0001	.0035	.0051
%RSD	1152.	287.6	62.30	1476.	79.01
#1	-.0005	-.0003	-.0001	.0027	.0101
#2	.0006	.0001	-.0003	-.0022	.0029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICB Acquired: 3/1/2017 9:30:11 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: RERUN

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2073.8	37143.	2601.4
Stddev	.9	52.	18.8
%RSD	.04440	.14116	.72099
#1	2073.1	37106.	2588.2
#2	2074.4	37180.	2614.7

Sample Name: LLICV Acquired: 3/1/2017 9:32:55 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: ICP16-26-D 0.5/50mL DOD CHECK TABLE

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0105	.0112	F .0245	.0094	.0043	.00109	F -.0113
Stddev	.0021	.0020	.0015	.0022	.0003	.00014	.0001
%RSD	20.37	17.94	5.948	23.44	6.649	12.430	1.047
#1	.0121	.0126	.0235	.0110	.0041	.00119	-.0114
#2	.0090	.0097	.0255	.0079	.0045	.00100	-.0112
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value			.0200				.0200
Range			20.00%				-20.00%

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011	.0009	F .0393	.0203	.0043	F .0029	.0038
Stddev	.0002	.0002	.0109	.0002	.0003	.0004	.0009
%RSD	22.15	16.11	27.74	.9481	7.510	12.83	24.38
#1	.0012	.0011	.0316	.0204	.0045	.0031	.0032
#2	.0009	.0008	.0470	.0202	.0040	.0026	.0045
Check ?	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass	Chk Fail	Chk Pass
Value			.0200			.0020	
Range			20.00%			20.00%	

Elem	Cu3273	Fe2599	Pb2203	Li6707	Mg2790	Mg2795	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040	.0184	.0094	.0189	-.0985	.0049	.0081
Stddev	.0009	.0022	.0008	.0017	.1185	.0000	.0015
%RSD	23.31	11.79	8.713	8.750	120.4	.2750	18.09
#1	.0033	.0169	.0100	.0201	-.0146	.0049	.0091
#2	.0046	.0199	.0088	.0177	-.1823	.0049	.0071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	None
Value							
Range							

① rerun
② 2x
am 3/1/17

Sample Name: LLICV Acquired: 3/1/2017 9:32:55 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: ICP16-26-D 0.5/50mL DOD CHECK TABLE

Elem	Mn2576	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00090	.0011	.0036	.0044	.0401	.2172	.0222
Stddev	.00005	.0003	.0008	.0005	.0005	.0416	.0046
%RSD	6.0566	23.21	22.32	12.15	1.194	19.16	20.81
#1	.00086	.0009	.0041	.0048	.0404	.1877	.0255
#2	.00094	.0013	.0030	.0040	.0398	.2466	.0190
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361 *
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1828	.0047	.1925	.00104	.0103	.0177	F .0014
Stddev	.0060	.0010	.0132	.00015	.0017	.0002	.0000
%RSD	3.298	21.00	6.850	14.916	16.50	1.379	3.447
#1	.1870	.0040	.1831	.00093	.0091	.0179	.0014
#2	.1785	.0054	.2018	.00115	.0115	.0175	.0014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							.0020
Range							-20.00%

Elem	V_2924	Zn2062	Zn2138	Bi2230 *	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0037	.0037	.0037	.0246	.0398
Stddev	.0002	.0003	.0000	.0044	.0033
%RSD	5.626	7.708	1.298	17.96	8.265
#1	.0035	.0039	.0036	.0277	.0421
#2	.0038	.0035	.0037	.0214	.0375
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None
Value					
Range					

* rerun
am 3/1/17

Sample Name: LLICV Acquired: 3/1/2017 9:32:55 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: ICP16-26-D 0.5/50mL DOD CHECK TABLE

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2082.7	37258.	2574.7
Stddev	3.4	131.	7.9
%RSD	.16138	.35144	.30782
#1	2080.3	37351.	2569.1
#2	2085.0	37166.	2580.3

Sample Name: LLICV Acquired: 3/1/2017 9:35:20 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: ICP16-26-D 0.5/50mL DOD CHECK TABLE RERUN

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0093	.0107	.0213	F .0041	.0040	.00109	F -.0181
Stddev	.0006	.0005	.0052	.0043	.0001	.00013	.0069
%RSD	6.726	4.658	24.54	104.1	2.099	11.736	38.00
#1	.0089	.0111	.0250	.0011	.0040	.00100	-.0229
#2	.0098	.0104	.0176	.0071	.0039	.00118	-.0132
Check ?	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail
Value				.0100			.0200
Range				-20.00%			-20.00%

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012	.0011	.0211	.0201	.0046	F .0029	.0037
Stddev	.0001	.0002	.0104	.0002	.0008	.0004	.0005
%RSD	8.407	15.10	49.15	.8030	16.80	15.40	13.14
#1	.0011	.0012	.0285	.0200	.0040	.0032	.0033
#2	.0013	.0009	.0138	.0202	.0051	.0026	.0040
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Fail	Chk Pass
Value						.0020	
Range						20.00%	

Elem	Cu3273	Fe2599	Pb2203	Li6707	Mg2790	Mg2795	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047	.0197	.0093	.0203	.0320	.0048	.0064
Stddev	.0010	.0124	.0012	.0014	.0982	.0001	.0016
%RSD	21.10	63.29	13.00	6.939	306.7	2.474	24.29
#1	.0040	.0285	.0085	.0213	-.0374	.0049	.0053
#2	.0054	.0109	.0102	.0193	.1014	.0048	.0075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	None
Value							
Range							

Sample Name: LLICV Acquired: 3/1/2017 9:35:20 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: ICP16-26-D 0.5/50mL DOD CHECK TABLE RERUN

Elem	Mn2576	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00096	.0024	.0034	.0041	.0425	.1954	.0201
Stddev	.00004	.0011	.0006	.0004	.0021	.0096	.0071
%RSD	4.1962	47.71	18.22	8.897	5.055	4.915	35.16
#1	.00098	.0031	.0029	.0043	.0410	.1886	.0251
#2	.00093	.0016	.0038	.0038	.0440	.2022	.0151
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2037	F .0050	.1999	.00091	F .0122	.0177	.0016
Stddev	.0114	.0009	.0143	.00009	.0020	.0004	.0004
%RSD	5.609	17.89	7.172	9.4958	16.03	2.091	26.34
#1	.2117	.0044	.1898	.00097	.0108	.0174	.0013
#2	.1956	.0057	.2101	.00085	.0135	.0179	.0019
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value		.0040			.0100		
Range		20.00%			20.00%		

Elem	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0043	.0043	.0036	.0229	.0389
Stddev	.0003	.0003	.0001	.0016	.0064
%RSD	6.258	6.710	2.927	7.018	16.54
#1	.0045	.0045	.0035	.0218	.0434
#2	.0041	.0041	.0036	.0241	.0343
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None
Value					
Range					

Sample Name: LLICV Acquired: 3/1/2017 9:35:20 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: ICP16-26-D 0.5/50mL DOD CHECK TABLE RERUN

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2085.4	37410.	2594.9
Stddev	7.4	1.	5.7
%RSD	.35548	.00134	.22141
#1	2090.7	37411.	2598.9
#2	2080.2	37410.	2590.8

Sample Name: LLICV,0.5 Acquired: 3/1/2017 9:37:44 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: ICP16-26-D 1/50mL

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0180	.0231	.0433	.0176	.0081	.00183	F -.0040
Stddev	.0024	.0023	.0010	.0056	.0002	.00008	.0017
%RSD	13.56	9.997	2.340	31.92	3.003	4.2453	43.58
#1	.0163	.0214	.0440	.0137	.0083	.00189	-.0052
#2	.0197	.0247	.0426	.0216	.0079	.00178	-.0028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							.0400
Range							-30.00%

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021	.0022	.0407	.0422	.0085	.0046	.0082
Stddev	.0001	.0002	.0343	.0004	.0008	.0001	.0010
%RSD	2.796	11.23	84.25	.9462	9.336	1.709	11.93
#1	.0020	.0020	.0649	.0425	.0091	.0045	.0075
#2	.0021	.0024	.0164	.0419	.0080	.0047	.0089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cu3273	Fe2599	Pb2203	Li6707	Mg2790	Mg2795	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0082	.0307	.0207	.0403	-.0127	.0097	.0083
Stddev	.0000	.0046	.0021	.0004	.0534	.0002	.0015
%RSD	.2771	15.10	9.951	1.057	419.9	1.598	17.54
#1	.0082	.0274	.0221	.0400	.0250	.0096	.0073
#2	.0082	.0340	.0192	.0406	-.0505	.0098	.0094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value							
Range							

Sample Name: LLICV,0.5 Acquired: 3/1/2017 9:37:44 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: ICP16-26-D 1/50mL

Elem	Mn2576	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00189	F .0030	.0075	.0083	.0788	.3993	.0423
Stddev	.00015	.0057	.0005	.0002	.0045	.0086	.0001
%RSD	7.7513	189.5	7.041	1.979	5.722	2.142	.1573
#1	.00178	.0071	.0078	.0085	.0820	.3932	.0424
#2	.00199	-.0010	.0071	.0082	.0756	.4053	.0423
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		.0020					
Range		30.00%					

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4215	.0090	.3931	.00167	.0206	.0391	.0031
Stddev	.0021	.0011	.0019	.00022	.0013	.0001	.0000
%RSD	.4975	12.14	.4801	13.139	6.388	.2699	.4781
#1	.4230	.0082	.3917	.00151	.0215	.0391	.0030
#2	.4200	.0098	.3944	.00182	.0197	.0392	.0031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0087	.0077	.0079	.0467	.0748
Stddev	.0000	.0001	.0002	.0017	.0157
%RSD	.5588	1.701	2.091	3.698	21.04
#1	.0087	.0078	.0080	.0479	.0859
#2	.0086	.0076	.0078	.0455	.0637
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: LLICV,0.5 Acquired: 3/1/2017 9:37:44 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: ICP16-26-D 1/50mL

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2083.4	37279.	2611.5
Stddev	3.4	206.	34.0
%RSD	.16245	.55279	1.3024
#1	2085.8	37133.	2587.4
#2	2081.0	37425.	2635.5

Sample Name: LLICV-TCLP Acquired: 3/1/2017 9:40:53 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: ICP16-33-C 0.2/10mL

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0062	.0005	.0000	-.0002	.2006	-.00009	-.0431	.0000
Stddev	.0020	.0019	.002	.0020	.0013	.00011	.0016	.000
%RSD	32.42	355.1	11810.	1050.	.6693	125.34	3.618	32.15
#1	-.0047	.0019	-.0015	.0012	.2016	-.00017	-.0442	.0000
#2	-.0076	-.0008	.0014	-.0016	.1997	-.00001	-.0420	-.0001
Check ?	None	None	None	None	Chk Pass	None	None	None
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0143	.0009	.0002	.0004	-.0006	-.0003	-.0019
Stddev	.0001	.0138	.0001	.0002	.0003	.0003	.0003	.0002
%RSD	59.91	96.64	7.767	93.89	74.04	51.55	108.6	8.730
#1	.0001	.0045	.0009	.0003	.0002	-.0008	-.0005	-.0020
#2	.0003	.0240	.0008	.0001	.0006	-.0004	-.0001	-.0017
Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0009	.0351	.0004	-.0036	-.00011	-.0007	-.0001
Stddev	.0027	.0001	.0132	.0000	.0019	.00008	.0011	.0001
%RSD	960.7	12.96	37.54	7.562	53.07	72.976	159.5	66.49
#1	-.0022	.0010	.0444	.0004	-.0049	-.00017	-.0015	-.0002
#2	.0016	.0008	.0258	.0004	-.0022	-.00005	.0001	-.0001
Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Sample Name: LLICV-TCLP Acquired: 3/1/2017 9:40:53 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: ICP16-33-C 0.2/10mL

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0009	.0561	.0051	-.0083	.0013	-.0060	-.00020
Stddev	.0008	.0018	.0047	.0074	.0101	.0004	.0121	.00004
%RSD	346.5	194.6	8.427	143.2	122.5	33.32	200.9	18.777
#1	-.0008	-.0004	.0528	.0103	-.0011	.0010	.0025	-.00018
#2	.0003	.0022	.0595	-.0001	-.0154	.0016	-.0146	-.00023
Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	-.0009	-.0014	.0008	.1965	.1946	.0021	-.0080
Stddev	.0004	.0025	.0000	.0005	.0002	.0000	.0032	.0018
%RSD	82.86	289.3	2.659	64.28	.1049	.0181	150.9	22.24
#1	-.0002	-.0027	-.0014	.0012	.1967	.1946	.0044	-.0093
#2	-.0008	.0009	-.0014	.0005	.1964	.1945	-.0001	-.0068
Check ?	None	None	None	None	Chk Pass	Chk Pass	None	None
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2064.0	37004.	2580.0
Stddev	1.2	5.	7.1
%RSD	.05656	.01346	.27613
#1	2063.2	37000.	2574.9
#2	2064.8	37007.	2585.0

Sample Name: CCVB1 Acquired: 3/1/2017 9:45:16 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.385	F 10.63	.0004	.9908	10.06	-.00014	.0122	.0000
Stddev	.024	* .03	.0024	.0036	.15	.00015	.0017	.0001
%RSD	.3249	.3075	568.4	.3652	1.507	111.56	13.74	209.2
#1	7.416	10.65	-.0029	.9887	10.08	-.00030	.0144	.0001
#2	7.357	10.65	.0007	.9927	10.00	-.00022	.0115	.0000
#3	7.383	10.66	.0029	.9949	10.25	-.00006	.0124	.0000
#4	7.382	10.59	.0009	.9870	9.891	.00004	.0105	.0000
Check ?	None	Chk Fail	None	Chk Pass	Chk Pass	None	None	None
Value		10.00						
Range		5.440%						

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	9.833	9.578	.0000	.0008	-.0002	-.0002	10.04
Stddev	.0001	.046	.086	.001	.0003	.0009	.0010	.03
%RSD	141.1	.4677	.8959	3070.	34.27	555.0	576.9	.2923
#1	.0001	9.796	9.651	.0008	.0005	-.0008	-.0012	10.04
#2	-.0001	9.847	9.480	.0002	.0009	-.0009	-.0004	10.00
#3	.0001	9.893	9.650	-.0009	.0007	.0000	-.0003	10.06
#4	.0002	9.797	9.533	-.0001	.0012	.0010	.0012	10.06
Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass
Value								
Range								

* NR for 200.7
okay for 6010
am 3/1/17

Sample Name: CCVB1 Acquired: 3/1/2017 9:45:16 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016	1.012	10.28	9.471	10.28	.95685	1.000	-.0006
Stddev	.0017	.009	.19	.037	.07	.00171	.008	.0006
%RSD	101.9	.8816	1.846	.3893	.6417	.17851	.8100	112.1
#1	.0002	1.018	10.03	9.461	10.31	.95558	.9965	.0001
#2	.0003	1.018	10.42	9.437	10.36	.95639	1.013	-.0008
#3	.0036	.9992	10.43	9.524	10.22	.95607	.9977	-.0001
#4	.0024	1.012	10.23	9.462	10.24	.95936	.9951	-.0013
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass	None
Value								
Range								

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	10.17	10.10	.0003	10.32	.0014	9.977	.99804
Stddev	.0003	.05	.06	.0059	.05	.0004	.069	.00223
%RSD	191.1	.5031	.5751	1715.	.5172	29.26	.6895	.22320
#1	.0004	10.23	10.11	-.0020	10.30	.0020	10.00	.99910
#2	.0004	10.18	10.16	.0037	10.39	.0011	10.04	.99700
#3	-.0002	10.17	10.02	.0065	10.27	.0013	9.882	1.0005
#4	.0001	10.10	10.09	-.0068	10.32	.0012	9.979	.99550
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVB1 Acquired: 3/1/2017 9:45:16 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	-.0007	-.0004	.0005	.0001	-.0002	1.045	.9913
Stddev	.0024	.0007	.0002	.0006	.0005	.0002	.007	.0100
%RSD	329.1	106.9	46.29	130.4	408.0	79.75	.6345	1.007
#1	-.0017	-.0009	-.0005	.0005	-.0001	-.0001	1.037	.9850
#2	.0028	-.0011	-.0001	.0013	.0009	-.0002	1.042	1.001
#3	-.0021	.0004	-.0005	.0004	-.0003	-.0005	1.046	.9807
#4	-.0019	-.0011	-.0005	-.0002	.0000	-.0002	1.053	.9981
Check ?	None	None	None	None	None	None	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2055.8	36749.	2579.4
Stddev	3.0	70.	23.6
%RSD	.14742	.18957	.91351
#1	2053.5	36795.	2585.7
#2	2059.0	36667.	2599.4
#3	2053.0	36817.	2545.3
#4	2057.8	36717.	2587.1

Sample Name: CCVA1 Acquired: 3/1/2017 9:51:52 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2587	.2745	.2492	.2508	.2521	.24955	F .1979	.2547
Stddev	.0049	.0050	.0059	.0024	.0006	.00025	.0048	.0013
%RSD	1.911	1.806	2.366	.9613	.2324	.10209	2.448	.5165
#1	.2556	.2798	.2458	.2472	.2523	.24926	.1920	.2558
#2	.2546	.2771	.2504	.2521	.2515	.24987	.2018	.2533
#3	.2589	.2727	.2570	.2518	.2528	.24950	.1958	.2538
#4	.2656	.2685	.2436	.2522	.2517	.24957	.2020	.2557
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Fail	Chk Pass
Value							.2500	
Range							-5.440%	

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2478	.5081	.4905	.2468	.2542	.2555	.2533	.2578
Stddev	.0008	.0156	.0014	.0014	.0011	.0021	.0009	.0117
%RSD	.3051	3.067	.2885	.5701	.4155	.8115	.3730	4.537
#1	.2482	.5081	.4920	.2448	.2555	.2568	.2529	.2631
#2	.2486	.4862	.4908	.2471	.2544	.2575	.2542	.2474
#3	.2468	.5168	.4886	.2474	.2531	.2529	.2539	.2488
#4	.2477	.5213	.4907	.2481	.2536	.2549	.2521	.2717
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value								
Range								

Sample Name: CCVA1 Acquired: 3/1/2017 9:51:52 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2497	.0004	.2631	.2445	.2572	.24321	.2469	.2457
Stddev	.0024	.0007	.0252	.0017	.0022	.00103	.0027	.0017
%RSD	.9768	165.9	9.562	.6913	.8598	.42231	1.092	.6986
#1	.2514	.0013	.2653	.2467	.2555	.24399	.2464	.2468
#2	.2477	.0003	.2484	.2445	.2553	.24386	.2443	.2474
#3	.2474	.0005	.2410	.2443	.2599	.24175	.2507	.2443
#4	.2521	-.0004	.2976	.2426	.2579	.24322	.2461	.2441
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass	None	Chk Pass
Value								
Range								

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2512	-.0007	2.414	.2495	.1194	.2507	.2428	-.00001
Stddev	.0007	.0025	.032	.0027	.0143	.0009	.0074	.00016
%RSD	.2745	333.2	1.324	1.086	11.98	.3706	3.029	2973.3
#1	.2518	.0014	2.442	.2496	.1083	.2511	.2461	.00016
#2	.2517	-.0034	2.392	.2456	.1059	.2494	.2320	-.00004
#3	.2503	-.0023	2.382	.2508	.1336	.2516	.2483	-.00021
#4	.2510	.0014	2.442	.2518	.1297	.2508	.2448	.00006
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass	None	None
Value								
Range								

Sample Name: CCVA1 Acquired: 3/1/2017 9:51:52 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2526	.2502	.2512	.2477	.2468	.2432	.0064	-.0065
Stddev	.0024	.0009	.0009	.0009	.0010	.0007	.0037	.0064
%RSD	.9675	.3512	.3461	.3821	.4235	.2984	57.79	99.46
#1	.2553	.2511	.2504	.2470	.2483	.2441	.0054	-.0028
#2	.2513	.2498	.2508	.2468	.2464	.2427	.0031	-.0152
#3	.2538	.2491	.2524	.2482	.2459	.2435	.0053	-.0071
#4	.2499	.2508	.2512	.2488	.2467	.2425	.0117	-.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2072.4	37382.	2584.9
Stddev	5.9	100.	17.8
%RSD	.28474	.26709	.68699
#1	2067.3	37414.	2576.1
#2	2071.8	37497.	2565.1
#3	2080.8	37260.	2593.6
#4	2069.7	37357.	2604.9

Sample Name: CCB Acquired: 3/1/2017 9:58:40 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013	.0000	-.0003	-.0021	-.0001	-.00005	F -.0348
Stddev	.0056	.0022	.0013	.0016	.0000	.00019	.0032
%RSD	440.5	9386.	395.4	76.02	86.61	397.32	9.134
#1	-.0027	.0016	-.0013	-.0010	-.0001	-.00019	-.0370
#2	.0052	-.0015	.0006	-.0033	.0000	.00009	-.0325
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.0050
Low Limit							-.0050

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0003	-.0024	-.0001	.0002	.0009	-.0001
Stddev	.0001	.0000	.0170	.0002	.0000	.0004	.0002
%RSD	123.5	4.275	720.0	385.2	12.79	44.88	321.6
#1	-.0001	.0002	.0097	.0001	.0002	.0012	.0001
#2	.0000	.0003	-.0144	-.0002	.0002	.0006	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cu3273	Fe2599	Pb2203	Li6707	Mg2790	Mg2795	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	-.0092	-.0004	-.0005	.0264	-.0002	-.0009
Stddev	.0001	.0057	.0001	.0014	.0396	.0001	.0028
%RSD	21.05	62.48	34.51	305.3	149.8	30.88	304.1
#1	-.0005	-.0051	-.0005	-.0015	-.0016	-.0002	.0011
#2	-.0007	-.0133	-.0003	.0005	.0545	-.0001	-.0029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 3/1/2017 9:58:40 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Mn2576	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00008	.0013	-.0001	-.0002	-.0065	.0224	.0037
Stddev	.00010	.0032	.0004	.0004	.0002	.0384	.0066
%RSD	136.94	250.6	434.2	264.2	2.837	171.4	180.0
#1	-.00015	.0036	-.0004	-.0004	-.0063	-.0047	-.0010
#2	.00000	-.0010	.0002	.0001	-.0066	.0496	.0083
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Si2516	Ag3280	Na5895	Sr4077	TI1908	Sn1899	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0200	.0015	.0057	-.00005	.0021	-.0003	-.0012
Stddev	.0307	.0005	.0027	.00004	.0020	.0005	.0000
%RSD	153.4	31.85	46.99	88.654	93.65	166.5	.3059
#1	.0017	.0012	.0038	-.00002	.0035	.0001	-.0012
#2	-.0418	.0018	.0077	-.00007	.0007	-.0007	-.0011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0002	-.0002	.0053	.0006
Stddev	.0001	.0001	.0002	.0039	.0090
%RSD	56.74	71.16	93.56	73.30	1430.
#1	-.0002	.0003	-.0003	.0026	.0070
#2	-.0001	.0001	-.0001	.0081	-.0057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB Acquired: 3/1/2017 9:58:40 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2044.8	36622.	2544.5
Stddev	11.4	10.	11.3
%RSD	.55694	.02626	.44568
#1	2036.8	36615.	2536.5
#2	2052.9	36629.	2552.5

Sample Name: ICSA Acquired: 3/1/2017 10:01:08 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: ICP16-31-G

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.20	487.4	.0209	.0016	.0003	-.00094	.0088	-.0004
Stddev	.06	.7	.0027	.0121	.0006	.00017	.0016	.0000
%RSD	.2556	.1429	12.97	774.7	187.5	18.379	18.66	6.646
#1	22.25	487.0	.0228	.0101	-.0001	-.00082	.0077	-.0004
#2	22.16	487.9	.0190	-.0070	.0008	-.00107	.0100	-.0004
Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	477.8	*****	-.0023	-.0072	-.0076	.0005	188.4
Stddev	.0000	.6	-----	.0015	.0005	.0004	.0009	.1
%RSD	7.855	.1244	-----	64.43	7.451	4.623	177.5	.0759
#1	.0002	478.2	-----	-.0013	-.0068	-.0074	.0012	188.5
#2	.0003	477.3	-----	-.0034	-.0076	-.0079	-.0001	188.3
Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020	.0059	560.6	194.0	440.1	-.00266	.0044	-.0017
Stddev	.0021	.0004	2.4	2.2	1.2	.00025	.0007	.0004
%RSD	102.1	6.242	.4242	1.144	.2750	9.5741	17.03	20.72
#1	.0035	.0056	558.9	195.5	441.0	-.00284	.0038	-.0015
#2	.0006	.0061	562.2	192.4	439.3	-.00248	.0049	-.0020
Check ?	None	None	Chk Pass	None	None	None	None	None
Value								
Range								

Sample Name: ICSA Acquired: 3/1/2017 10:01:08 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: ICP16-31-G

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0052	.0083	.0036	-.0142	.0300	.0007	.0190	.00444
Stddev	.0008	.0033	.0515	.0028	.0145	.0000	.0123	.00003
%RSD	15.89	39.40	1420.	19.53	48.11	6.590	64.62	.71248
#1	-.0058	.0060	-.0328	-.0123	.0198	.0007	.0103	.00442
#2	-.0046	.0107	.0400	-.0162	.0403	.0007	.0276	.00446
Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0066	.0015	-.0017	-.0004	-.0063	-.0049	.0080	.0471
Stddev	.0050	.0019	.0003	.0001	.0004	.0003	.0012	.0013
%RSD	75.34	123.4	17.39	26.13	6.906	5.598	14.49	2.770
#1	-.0101	.0002	-.0015	-.0004	-.0060	-.0047	.0071	.0481
#2	-.0031	.0029	-.0019	-.0003	-.0066	-.0051	.0088	.0462
Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1800.8	31872.	2407.8
Stddev	.6	101.	5.5
%RSD	.03097	.31543	.23032
#1	1800.4	31944.	2403.8
#2	1801.2	31801.	2411.7

Sample Name: ICSAB Acquired: 3/1/2017 10:03:45 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: ICP16-38-A

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.14	485.8	.8727	-.0023	.5034	.45530	.0079	.8946
Stddev	.05	4.3	.0125	.0007	.0002	.00175	.0020	.0001
%RSD	.2045	.8877	1.427	28.82	.0386	.38510	25.63	.0076
#1	22.17	482.7	.8815	-.0018	.5033	.45654	.0094	.8946
#2	22.11	488.8	.8639	-.0028	.5035	.45406	.0065	.8947
Check ?	None	None	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8675	466.4	*****	.4642	.4390	.4453	.4633	184.6
Stddev	.0008	.6	-----	.0008	.0023	.0010	.0043	1.0
%RSD	.0877	.1208	-----	.1748	.5301	.2280	.9189	.5480
#1	.8669	466.8	-----	.4636	.4406	.4460	.4663	185.3
#2	.8680	466.0	-----	.4647	.4373	.4446	.4602	183.9
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8468	.0059	548.5	192.6	433.5	.43973	.5147	-.0028
Stddev	.0021	.0019	1.0	1.5	.0	.00039	.0012	.0011
%RSD	.2469	33.18	.1883	.7903	.0083	.08960	.2295	38.28
#1	.8483	.0072	549.3	193.7	433.6	.43945	.5139	-.0035
#2	.8453	.0045	547.8	191.5	433.5	.44000	.5156	-.0020
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Pass	None
Value								
Range								

Sample Name: ICSAB Acquired: 3/1/2017 10:03:45 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: ICP16-38-A

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8513	.0047	.0322	-.0156	.0260	.8845	.0235	.00421
Stddev	.0028	.0035	.0227	.0027	.0362	.0079	.0143	.00015
%RSD	.3279	73.89	70.52	17.53	139.3	.8913	60.84	3.5509
#1	.8493	.0072	.0162	-.0176	.0516	.8901	.0337	.00431
#2	.8533	.0022	.0483	-.0137	.0004	.8789	.0134	.00410
Check ?	Chk Pass	None	None	None	None	Chk Pass	None	None
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0072	.0020	-.0020	.4916	.8401	.8062	.0101	.0301
Stddev	.0030	.0026	.0001	.0010	.0041	.0024	.0033	.0142
%RSD	41.15	128.9	5.765	.2008	.4903	.2969	32.63	47.21
#1	-.0051	.0002	-.0020	.4909	.8372	.8045	.0078	.0201
#2	-.0093	.0039	-.0019	.4923	.8430	.8079	.0124	.0402
Check ?	None	None	None	Chk Pass	Chk Pass	Chk Pass	None	None
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1802.7	31946.	2422.9
Stddev	3.8	116.	7.1
%RSD	.20951	.36203	.29491
#1	1800.0	32028.	2417.8
#2	1805.4	31864.	2427.9

Sample Name: 200ppm Fe Acquired: 3/1/2017 10:06:40 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A 0.2/10mL Fe 10,000ppm

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0000	.0091	.0006	-.0001	-.00063	.0000	.0000
Stddev	.0654	.0209	.0029	.0001	.0005	.00000	.001	.0001
%RSD	2848000.	359700.	32.24	14.98	456.3	.38346	24170.	500e6
#1	.0462	.0148	.0070	.0006	.0002	-.00064	-.0008	.0001
#2	-.0462	-.0147	.0111	.0005	-.0004	-.00063	.0008	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0000	.0100	.0000	.0009	.0000	.0019	F 193.6
Stddev	.0001	.0029	.0020	.000	.0012	.003	.0008	1.5
%RSD	162900.	134700.	19.79	1028.	136.7	143200.	42.73	.7863
#1	.0001	-.0020	.0114	.0000	.0017	-.0019	.0013	194.7
#2	-.0001	.0020	.0086	-.0001	.0000	.0019	.0024	192.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit								.0200
Low Limit								-.0200

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045	-.0001	-.0465	.0000	.0042	-.00014	.0051	-.0018
Stddev	.0018	.0013	.1201	.0015	.0021	.00015	.0006	.0004
%RSD	39.02	2080.	258.3	9808e6	49.79	107.19	11.05	20.16
#1	.0057	-.0010	-.1314	.0011	.0027	-.00003	.0054	-.0020
#2	.0033	.0009	.0384	-.0011	.0057	-.00025	.0047	-.0015
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit								
Low Limit								

Sample Name: 200ppm Fe Acquired: 3/1/2017 10:06:40 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A 0.2/10mL Fe 10,000ppm

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0136	.0504	.0000	-.0038	.0004	-.0031	-.00009
Stddev	.0003	.0054	.0154	.007	.0014	.0001	.0141	.00020
%RSD	119.4	40.02	30.58	428700.	38.21	15.72	457.8	214.73
#1	.0005	.0175	.0614	-.0053	-.0048	.0004	-.0131	.00005
#2	.0000	.0098	.0395	.0053	-.0027	.0005	.0069	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0012	-.0014	-.0011	-.0018	.0017	.0113	.0233
Stddev	.0006	.0004	.0003	.0001	.0001	.0003	.0001	.0015
%RSD	548.1	31.07	20.96	13.04	6.256	19.37	.9249	6.343
#1	.0005	.0009	-.0016	-.0010	-.0018	.0014	.0113	.0223
#2	-.0003	.0014	-.0012	-.0012	-.0019	.0019	.0112	.0244
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2041.9	36439.	2526.5
Stddev	6.3	5.	9.7
%RSD	.30888	.01300	.38582
#1	2037.4	36436.	2519.6
#2	2046.4	36442.	2533.4

Sample Name: KQ1701750-05 Acquired: 3/1/2017 10:24:49 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5 K1701517-MB

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0121	-.0033	.0074	.0005	-.00007	-.0188	-.0001	.0000
#1	.0143	-.0057	.0061	.0010	-.00003	-.0197	.0001	.0001
#2	.0098	-.0009	.0086	-.0001	-.00010	-.0178	-.0002	.0000

Elem	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0307	F .0067	.0004	.0009	.0004	.0167	-.0010	.0001
#1	.0306	.0073	.0005	.0015	.0007	.0167	-.0011	.0011
#2	.0308	.0060	.0003	.0003	.0001	.0167	-.0008	-.0008

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028	.00024	-.0001	.0005	.0003	.0075	.0012	.0200
#1	.0030	.00026	-.0002	.0005	-.0025	-.0029	-.0027	-.0087
#2	.0026	.00023	-.0001	.0006	.0031	.0180	.0052	.0486

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014	269.9	.00011	-.0006	-.0005	-.0031	.0005	.0063
#1	.0009	270.5	.00008	-.0027	-.0005	-.0029	.0012	.0062
#2	.0019	269.3	.00013	.0015	-.0005	-.0032	-.0002	.0063

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0056	.0004	-.0023
#1	.0059	.0021	-.0089
#2	.0053	-.0013	.0043

Sample Name: KQ1701750-05 Acquired: 3/1/2017 10:24:49 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5 K1701517-MB

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1955.5	34308.	2506.3
#1	1957.3	34288.	2507.3
#2	1953.7	34329.	2505.3

Sample Name: KQ1701750-05 Acquired: 3/1/2017 10:28:58 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5 K1701517-MB RE-DILUTE

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0133	-.0001	.0058	.0007	-.00005	-.0151	.0001	.0001
#1	.0128	.0007	.0051	.0008	.00008	-.0177	.0001	.0000
#2	.0139	-.0009	.0065	.0006	-.00018	-.0126	.0000	.0002

Elem	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0306	F .0073	.0007	.0006	.0005	.0114	-.0014	.0008
#1	.0305	.0078	.0004	.0011	.0004	.0125	-.0009	.0001
#2	.0307	.0069	.0009	.0001	.0005	.0103	-.0018	.0015

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029	.00032	-.0001	.0009	.0028	.0401	.0030	.0369
#1	.0028	.00035	.0000	.0010	.0107	.0673	-.0023	.0254
#2	.0029	.00030	-.0002	.0009	-.0051	.0129	.0084	.0484

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0025	267.9	.00021	.0019	.0005	-.0028	.0007	.0064
#1	.0021	268.1	.00021	-.0027	-.0002	-.0030	.0012	.0064
#2	.0028	267.7	.00022	.0065	.0012	-.0026	.0001	.0064

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0053	.0003	-.0118
#1	.0053	-.0002	-.0114
#2	.0052	.0008	-.0123

NR- confirms
am 3/1/17

Sample Name: KQ1701750-05 Acquired: 3/1/2017 10:28:58 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5 K1701517-MB RE-DILUTE

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1947.7	33930.	2472.7
#1	1946.2	33932.	2465.1
#2	1949.3	33928.	2480.3

NR
am 3/1/17

Sample Name: KQ1701750-04 Acquired: 3/1/2017 10:31:29 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5 K1701517-LCSE

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0311	-.0077	.9110	1.876	-.00015	.0157	.1931	.1822
#1	.0281	-.0086	.9035	1.879	-.00008	.0139	.1925	.1817
#2	.0342	-.0067	.9186	1.873	-.00022	.0176	.1936	.1828

Elem	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0450	.9462	.0011	.1844	.1763	.0058	.8714	.0021
#1	.0452	.9491	.0006	.1843	.1766	-.0021	.8710	.0021
#2	.0449	.9434	.0016	.1845	.1761	.0137	.8719	.0022

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033	.00028	-.0004	.1808	-.0028	.0588	.1740	.1503
#1	.0035	.00029	-.0005	.1807	-.0022	.0580	.1664	.1509
#2	.0032	.00026	-.0004	.1809	-.0034	.0596	.1816	.1497

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1699	271.3	.00017	-.0011	-.0016	-.0029	.0019	1.859
#1	.1714	270.4	.00014	-.0008	-.0022	-.0032	.0018	1.856
#2	.1684	272.1	.00019	-.0015	-.0010	-.0026	.0020	1.861

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	1.689	.0052	-.0050
#1	1.683	.0060	-.0032
#2	1.695	.0045	-.0068

Sample Name: KQ1701750-04 Acquired: 3/1/2017 10:31:29 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5 K1701517-LCSE

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1944.4**	**33841.**	**2494.2**
#1	1941.1	33837.	2499.3
#2	1947.6	33845.	2489.2

Sample Name: K1701517-001 Acquired: 3/1/2017 10:33:54 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0340	.0003	-.0020	.0055	-.00033	.1458	.0003	.0001
#1	.0352	.0047	.0003	.0061	-.00025	.1420	.0002	.0002
#2	.0328	-.0042	-.0043	.0049	-.00040	.1497	.0003	.0000

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	60.98	.0001	.0022	-.0013	.0000	47.97	.0027	.0019
#1	60.39	.0002	.0024	-.0010	.0008	47.62	.0027	.0022
#2	61.57	.0001	.0021	-.0016	-.0008	48.31	.0027	.0015

Elem	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	28.76	.18695	.0064	.0289	4.408	23.09	.0032	1.279
#1	29.27	.18803	.0061	.0300	4.396	23.62	.0017	1.286
#2	28.26	.18587	.0068	.0278	4.421	22.56	.0047	1.271

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011	315.3	.38878	-.0009	.0003	-.0028	.0028	.0105
#1	.0011	313.9	.38963	-.0005	.0010	-.0027	.0034	.0100
#2	.0012	316.6	.38793	-.0013	-.0003	-.0028	.0022	.0109

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0099	.0066	13.57
#1	.0099	.0044	13.56
#2	.0099	.0088	13.59

Sample Name: K1701517-001 Acquired: 3/1/2017 10:33:54 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1907.7	33329.	2453.9
#1	1912.1	32944.	2508.9
#2	1903.3	33713.	2398.9

Sample Name: K1701517-001L Acquired: 3/1/2017 10:36:25 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 25 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/25

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0070	.0004	-.0023	.0013	-.00021	.0202	.0000	.0000
#1	.0101	.0015	.0000	.0013	-.00027	.0227	.0001	.0001
#2	.0038	-.0007	-.0047	.0013	-.00015	.0176	.0000	-.0001

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.38	-.0002	.0009	.0000	.0010	9.806	.0018	.0018
#1	12.37	-.0004	.0007	.0001	.0007	9.851	.0007	.0020
#2	12.38	.0001	.0011	-.0001	.0012	9.762	.0029	.0016

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.646	.03862	.0010	.0053	.8620	4.345	.0055	.2578
#1	5.651	.03855	.0013	.0052	.8686	4.348	.0089	.2612
#2	5.642	.03868	.0007	.0053	.8555	4.341	.0021	.2545

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020	63.53	.07897	.0017	-.0001	-.0017	.0010	.0024
#1	.0017	63.50	.07912	.0038	.0005	-.0017	.0018	.0023
#2	.0024	63.56	.07882	-.0003	-.0007	-.0016	.0002	.0026

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0020	.0004	2.803
#1	.0020	.0000	2.798
#2	.0019	.0008	2.807

Sample Name: K1701517-001L Acquired: 3/1/2017 10:36:25 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 25 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/25

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2018.0	35323.	2525.7
#1	2017.0	35591.	2520.6
#2	2019.0	35055.	2530.9

Sample Name: K1701517-001D Acquired: 3/1/2017 10:38:53 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055	.0001	-.0015	.0047	-.00009	.1170	-.0001	.0002
#1	.0055	.0023	-.0021	.0050	-.00010	.1196	.0001	.0000
#2	.0054	-.0021	-.0008	.0043	-.00009	.1145	-.0002	.0004

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	56.14	-.0014	.0027	-.0005	.0009	44.37	-.0006	.0036
#1	56.29	-.0015	.0027	.0003	.0011	44.54	.0009	.0041
#2	55.99	-.0013	.0027	-.0012	.0006	44.21	-.0021	.0032

Elem	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.61	.17426	.0053	.0264	4.118	22.31	.0041	1.059
#1	27.65	.17470	.0052	.0268	4.129	22.35	.0087	1.065
#2	27.58	.17382	.0053	.0261	4.107	22.26	-.0005	1.053

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	299.8	.36400	.0039	-.0002	-.0025	.0024	.0096
#1	.0002	300.9	.36507	.0053	.0006	-.0024	.0025	.0095
#2	.0017	298.7	.36293	.0024	-.0010	-.0026	.0022	.0097

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0091	.0056	12.90
#1	.0090	.0046	12.96
#2	.0092	.0067	12.83

Sample Name: K1701517-001D Acquired: 3/1/2017 10:38:53 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1917.1	33964.	2539.8
#1	1923.3	33879.	2534.8
#2	1910.8	34049.	2544.8

Sample Name: K1701517-001S Acquired: 3/1/2017 10:41:24 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	-.0023	.9163	1.929	-.00017	.1468	.1860	.1774
#1	-.0019	-.0052	.9138	1.925	-.00011	.1448	.1850	.1771
#2	.0010	.0006	.9188	1.932	-.00024	.1488	.1869	.1777

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	58.44	.9380	.0024	.1848	.1863	46.15	.8725	.0035
#1	58.58	.9425	.0028	.1846	.1860	46.14	.8689	.0029
#2	58.29	.9335	.0020	.1851	.1865	46.17	.8762	.0042

Elem	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	28.70	.18023	.0056	.2057	4.316	23.32	.1761	.8994
#1	28.65	.17998	.0056	.2056	4.321	23.22	.1793	.9109
#2	28.75	.18047	.0057	.2058	4.310	23.41	.1729	.8880

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1740	309.0	.37945	.0016	.0003	-.0027	.0046	1.791
#1	.1737	306.4	.37924	.0044	-.0005	-.0028	.0042	1.787
#2	.1743	311.7	.37966	-.0011	.0012	-.0027	.0050	1.795

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	1.687	.0061	15.18
#1	1.686	.0047	15.22
#2	1.687	.0074	15.14

Sample Name: K1701517-001S Acquired: 3/1/2017 10:41:24 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1914.5	33918.	2530.0
#1	1914.9	33865.	2526.0
#2	1914.2	33972.	2534.0

Sample Name: K1701517-001SD Acquired: 3/1/2017 10:43:51 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0079	-.0075	.9324	1.950	-.00024	.1319	.1891	.1799
#1	-.0059	-.0050	.9309	1.957	-.00025	.1297	.1889	.1800
#2	-.0099	-.0100	.9338	1.942	-.00024	.1342	.1893	.1798

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	57.84	.9491	.0029	.1897	.1892	45.73	.8834	.0024
#1	58.23	.9476	.0032	.1886	.1880	45.98	.8873	.0035
#2	57.45	.9505	.0027	.1908	.1904	45.48	.8794	.0013

Elem	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	28.41	.17934	.0066	.2092	4.298	23.03	.1856	1.064
#1	28.47	.17885	.0071	.2093	4.299	23.02	.1902	1.081
#2	28.36	.17984	.0061	.2092	4.297	23.04	.1810	1.047

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1768	305.2	.37456	-.0008	.0004	-.0028	.0032	1.815
#1	.1755	305.6	.37448	-.0018	-.0001	-.0031	.0028	1.816
#2	.1780	304.8	.37464	.0002	.0009	-.0025	.0036	1.813

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	1.703	.0059	15.04
#1	1.700	.0078	15.04
#2	1.706	.0039	15.04

Sample Name: K1701517-001SD Acquired: 3/1/2017 10:43:51 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1907.4	33955.	2524.5
#1	1903.8	33934.	2514.3
#2	1911.0	33975.	2534.7

Sample Name: K1701517-001A Acquired: 3/1/2017 10:46:18 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5 A=0.1/10mL MET2-77-K

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0070	-.0407	4.797	10.07	-.00027	.1690	.9757	.9404
#1	-.0025	-.0427	4.798	10.11	-.00035	.1671	.9778	.9425
#2	-.0114	-.0387	4.796	10.04	-.00019	.1708	.9736	.9383

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	59.48	4.894	.0036	.9836	.9710	47.15	4.585	.0031
#1	59.58	4.903	.0034	.9833	.9694	47.30	4.592	.0025
#2	59.38	4.885	.0038	.9838	.9726	47.01	4.578	.0037

Elem	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	29.49	.18590	.0073	.9721	4.450	23.98	.9315	1.313
#1	29.50	.18636	.0070	.9733	4.453	23.97	.9307	1.318
#2	29.48	.18544	.0076	.9709	4.447	23.99	.9323	1.308

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9133	318.8	.38896	.0018	.0003	-.0029	.0084	9.249
#1	.9124	318.9	.39036	.0031	.0015	-.0033	.0077	9.277
#2	.9142	318.8	.38755	.0005	-.0009	-.0025	.0091	9.221

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	8.418	.0144	13.67
#1	8.416	.0163	13.64
#2	8.420	.0125	13.71

Sample Name: K1701517-001A Acquired: 3/1/2017 10:46:18 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5 A=0.1/10mL MET2-77-K

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1889.5	33867.	2542.3
#1	1888.3	33775.	2538.3
#2	1890.7	33959.	2546.4

Sample Name: CCVB Acquired: 3/1/2017 10:48:46 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.463	F 11.25	.0006	1.004	10.15	-.00013	.0121	.0001
Stddev	.016	.11	.0037	.001	.20	.00007	.0034	.0004
%RSD	.2168	.9881	673.8	.1423	1.948	51.348	28.25	340.3
#1	7.474	11.33	-.0021	1.003	10.01	-.00018	.0097	-.0002
#2	7.451	11.18	.0032	1.005	10.29	-.00009	.0145	.0004
Check ?	None	Chk Fail	None	Chk Pass	Chk Pass	None	None	None
Value		10.00						
Range		10.44%						

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	9.786	9.568	.0004	.0006	-.0003	-.0005	10.04
Stddev	.0000	.146	.131	.0001	.0005	.0006	.0003	.04
%RSD	5.373	1.497	1.365	42.35	83.40	254.0	58.20	.3735
#1	.0002	9.683	9.476	.0002	.0002	-.0007	-.0003	10.02
#2	.0002	9.890	9.660	.0005	.0009	.0002	-.0007	10.07
Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042	1.006	10.12	9.319	10.15	.94889	1.008	-.0006
Stddev	.0021	.000	.16	.068	.04	.00056	.007	.0005
%RSD	51.13	.0205	1.541	.7253	.4350	.05935	.7104	90.01
#1	.0027	1.005	10.01	9.271	10.12	.94929	1.002	-.0009
#2	.0057	1.006	10.23	9.367	10.18	.94849	1.013	-.0002
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass	None
Value								
Range								

Sample Name: CCVB Acquired: 3/1/2017 10:48:46 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	10.43	10.11	.0123	10.19	.0008	9.916	.98796
Stddev	.0005	.01	.06	.0013	.03	.0002	.001	.00596
%RSD	56.96	.1332	.6252	10.67	.2804	23.70	.0139	.60350
#1	.0011	10.42	10.07	.0114	10.17	.0006	9.917	.98374
#2	.0005	10.44	10.16	.0132	10.21	.0009	9.915	.99218
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0013	-.0011	.0004	.0012	.0010	1.066	1.005
Stddev	.0049	.0006	.0001	.0007	.0017	.0010	.006	.003
%RSD	1991.	43.15	12.19	191.3	140.7	102.7	.5584	.2852
#1	-.0032	-.0009	-.0012	.0009	.0000	.0003	1.062	1.003
#2	.0037	-.0017	-.0010	-.0001	.0024	.0017	1.070	1.007
Check ?	None	None	None	None	None	None	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2051.5	36054.	2551.5
Stddev	3.9	110.	15.1
%RSD	.19025	.30541	.59207
#1	2054.2	36132.	2562.2
#2	2048.7	35976.	2540.8

Sample Name: CCVA Acquired: 3/1/2017 10:51:16 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2617	.3039	.2589	.2538	.2549	.25498	F .1945	.2566
Stddev	.0017	.0083	.0034	.0054	.0004	.00024	.0029	.0002
%RSD	.6481	2.728	1.302	2.115	.1524	.09261	1.490	.0854
#1	.2629	.3098	.2565	.2500	.2552	.25515	.1966	.2564
#2	.2605	.2981	.2612	.2576	.2546	.25482	.1925	.2567
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Fail	Chk Pass
Value							.2500	
Range							-10.44%	

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2464	.4962	.4857	.2490	.2572	.2582	.2643	.2602
Stddev	.0015	.0026	.0001	.0003	.0000	.0003	.0013	.0041
%RSD	.6056	.5224	.0227	.1205	.0147	.1013	.4772	1.577
#1	.2453	.4944	.4856	.2488	.2571	.2583	.2634	.2631
#2	.2474	.4981	.4858	.2492	.2572	.2580	.2652	.2573
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2465	.0013	.2943	.2417	.2587	.23910	.2489	.2440
Stddev	.0004	.0013	.1188	.0007	.0051	.00014	.0065	.0010
%RSD	.1740	99.25	40.36	.3093	1.960	.05755	2.603	.4160
#1	.2468	.0004	.2103	.2423	.2623	.23920	.2535	.2433
#2	.2462	.0022	.3783	.2412	.2552	.23900	.2443	.2447
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass	None	Chk Pass
Value								
Range								

Sample Name: CCVA Acquired: 3/1/2017 10:51:16 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2523	.0051	2.427	.2511	.1467	.2585	.2949	.00004
Stddev	.0014	.0013	.018	.0005	.0039	.0010	.0022	.00007
%RSD	.5692	25.87	.7435	.1806	2.650	.3914	.7465	166.48
#1	.2513	.0042	2.440	.2508	.1440	.2592	.2934	-.00001
#2	.2533	.0060	2.415	.2514	.1495	.2578	.2965	.00009
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass	None	None
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2637	.2524	.2546	.2512	.2438	.2435	.0015	-.0016
Stddev	.0011	.0015	.0002	.0019	.0003	.0015	.0004	.0002
%RSD	.4266	.6105	.0603	.7683	.1322	.6191	29.59	12.74
#1	.2629	.2513	.2547	.2526	.2436	.2446	.0018	-.0015
#2	.2645	.2535	.2545	.2498	.2440	.2424	.0012	-.0018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2081.4	37460.	2580.7
Stddev	2.5	101.	22.0
%RSD	.11897	.27025	.85338
#1	2083.2	37389.	2596.3
#2	2079.7	37532.	2565.2

Sample Name: CCB Acquired: 3/1/2017 10:53:34 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0044	.0014	.0018	.0029	.0002	-.00020	F -.0551
Stddev	.0042	.0006	.0011	.0027	.0002	.00006	.0010
%RSD	94.96	43.88	61.86	95.59	108.6	28.228	1.875
#1	-.0014	.0019	.0026	.0048	.0000	-.00016	-.0559
#2	-.0073	.0010	.0010	.0009	.0004	-.00024	-.0544
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.0050
Low Limit							-.0050

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0003	.0185	.0000	-.0002	.0001	-.0008
Stddev	.0001	.0004	.0222	.0000	.0001	.0005	.0002
%RSD	71.44	140.7	120.1	56.16	30.11	434.4	27.16
#1	-.0002	.0000	.0342	.0000	-.0002	.0004	-.0009
#2	-.0001	.0006	.0028	.0000	-.0001	-.0002	-.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cu3273	Fe2599	Pb2203	Li6707	Mg2790	Mg2795	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0071	-.0037	.0011	-.0445	.0000	.0006
Stddev	.0018	.0025	.0025	.0004	.0240	.001	.0011
%RSD	675.4	35.41	67.69	39.20	53.89	1663.	203.1
#1	-.0015	.0053	-.0019	.0014	-.0614	-.0004	.0013
#2	.0010	.0088	-.0055	.0008	-.0275	.0003	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 3/1/2017 10:53:34 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Mn2576	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00009	-.0002	.0004	.0006	-.0079	.0220	.0101
Stddev	.00004	.0011	.0005	.0001	.0016	.0334	.0002
%RSD	46.180	625.8	129.2	21.35	19.67	151.5	1.672
#1	-.00006	-.0010	.0000	.0007	-.0090	.0456	.0102
#2	-.00012	.0006	.0007	.0005	-.0068	-.0016	.0100
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039	.0020	.0461	-.00014	.0018	-.0007	-.0013
Stddev	.0159	.0008	.0117	.00016	.0024	.0007	.0004
%RSD	402.3	38.98	25.41	118.94	130.1	94.62	34.22
#1	.0152	.0025	.0378	-.00002	.0001	-.0012	-.0010
#2	-.0073	.0014	.0544	-.00025	.0035	-.0002	-.0016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0005	-.0001	-.0021	-.0014
Stddev	.0001	.0003	.0001	.0013	.0062
%RSD	39.20	61.67	95.48	61.38	455.6
#1	.0004	.0007	-.0002	-.0030	.0030
#2	.0002	.0003	.0000	-.0012	-.0057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB Acquired: 3/1/2017 10:53:34 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2043.8	37023.	2546.8
Stddev	9.7	116.	23.0
%RSD	.47241	.31324	.90384
#1	2050.7	36941.	2530.6
#2	2037.0	37105.	2563.1

Sample Name: LLCCV Acquired: 3/1/2017 10:56:22 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0124	F .0131	.0182	.0098	.0043	.00096	F -.0366
Stddev	.0017	.0019	.0044	.0004	.0000	.00017	.0057
%RSD	13.78	14.70	23.96	4.197	.5782	18.179	15.67
#1	.0112	.0117	.0151	.0101	.0043	.00108	-.0407
#2	.0136	.0144	.0213	.0095	.0042	.00084	-.0326
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value		.0100					.0200
Range		30.00%					-30.00%

2X

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012	.0013	F .0312	.0198	.0047	F .0027	.0036
Stddev	.0002	.0003	.0092	.0001	.0004	.0003	.0005
%RSD	15.72	23.34	29.62	.4736	8.655	10.90	13.86
#1	.0011	.0011	.0377	.0197	.0050	.0029	.0033
#2	.0014	.0015	.0246	.0199	.0044	.0025	.0040
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value			.0200			.0020	
Range			30.00%			30.00%	

Elem	Cu3273	Fe2599	Pb2203	Li6707	Mg2790	Mg2795	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030	.0253	.0091	.0186	-.0794	.0047	.0052
Stddev	.0000	.0088	.0036	.0037	.0192	.0001	.0001
%RSD	1.163	34.63	39.55	19.99	24.17	2.059	2.758
#1	.0030	.0191	.0066	.0212	-.0659	.0047	.0053
#2	.0030	.0315	.0117	.0160	-.0930	.0046	.0051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value							
Range							

Sample Name: LLCCV Acquired: 3/1/2017 10:56:22 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Mn2576	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00085	.0008	.0035	.0040	.0498	.1934	.0173
Stddev	.00011	.0019	.0002	.0006	.0048	.0202	.0065
%RSD	12.631	246.1	6.732	13.70	9.667	10.43	37.42
#1	.00077	.0021	.0037	.0037	.0532	.1791	.0127
#2	.00092	-.0006	.0033	.0044	.0464	.2077	.0219
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1963	.0047	.2120	.00088	.0106	.0192	F .0005
Stddev	.0199	.0002	.0047	.00030	.0001	.0017	.0001
%RSD	10.14	3.766	2.214	34.325	1.352	8.865	12.11
#1	.2104	.0048	.2086	.00067	.0105	.0180	.0004
#2	.1822	.0045	.2153	.00110	.0107	.0204	.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							.0020
Range							-30.00%

Elem	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0047	.0045	.0045	.0212	.0298
Stddev	.0007	.0005	.0013	.0049	.0012
%RSD	15.39	10.70	28.99	22.87	3.963
#1	.0042	.0042	.0036	.0247	.0290
#2	.0052	.0049	.0054	.0178	.0306
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: LLCCV Acquired: 3/1/2017 10:56:22 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2058.3	36706.	2520.3
Stddev	21.5	49.	25.4
%RSD	1.0469	.13284	1.0062
#1	2043.1	36741.	2538.2
#2	2073.5	36672.	2502.4

Sample Name: LLCCV Acquired: 3/1/2017 10:59:10 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: RERUN

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0088	.0113	.0194	.0109	.0040	.00094	F -.0375
Stddev	.0033	.0027	.0044	.0045	.0000	.00000	.0023
%RSD	37.18	23.40	22.51	41.30	.0189	.30732	6.027
#1	.0111	.0095	.0163	.0077	.0040	.00093	-.0359
#2	.0065	.0132	.0225	.0141	.0040	.00094	-.0391
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							.0200
Range							-30.00%

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012	.0010	.0248	.0198	.0036	F .0026	.0037
Stddev	.0000	.0000	.0211	.0001	.0007	.0003	.0002
%RSD	4.023	3.557	84.84	.4048	19.50	9.906	6.211
#1	.0012	.0010	.0397	.0198	.0041	.0025	.0035
#2	.0012	.0010	.0099	.0197	.0031	.0028	.0038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						.0020	
Range						30.00%	

Elem	Cu3273	Fe2599	Pb2203	Li6707	Mg2790	Mg2795	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047	F .0126	.0082	.0183	.0200	.0045	F .0018
Stddev	.0002	.0152	.0006	.0000	.0182	.0002	.0015
%RSD	4.393	120.4	7.347	.2331	90.88	3.878	81.05
#1	.0048	.0233	.0077	.0183	.0328	.0046	.0008
#2	.0045	.0019	.0086	.0183	.0071	.0043	.0028
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass	Chk Fail
Value		.0200					.0050
Range		-30.00%					-30.00%

NR
AM 3/1/17

Sample Name: LLCCV Acquired: 3/1/2017 10:59:10 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: RERUN

Elem	Mn2576	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00085	.0030	.0031	.0042	.0454	.1635	.0210
Stddev	.00022	.0008	.0003	.0004	.0012	.0190	.0015
%RSD	25.927	25.34	8.365	8.365	2.728	11.59	7.152
#1	.00101	.0025	.0029	.0045	.0446	.1501	.0199
#2	.00070	.0036	.0032	.0040	.0463	.1769	.0221
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2015	.0051	.2154	.00092	.0126	.0189	F .0003
Stddev	.0286	.0009	.0110	.00027	.0038	.0007	.0003
%RSD	14.22	17.45	5.112	29.403	29.97	3.727	101.8
#1	.2217	.0057	.2076	.00111	.0099	.0184	.0006
#2	.1812	.0045	.2231	.00073	.0153	.0194	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							.0020
Range							-30.00%

Elem	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0041	.0039	.0036	.0245	.0336
Stddev	.0005	.0004	.0002	.0018	.0051
%RSD	11.82	9.709	6.102	7.225	15.04
#1	.0045	.0041	.0038	.0233	.0372
#2	.0038	.0036	.0035	.0258	.0301
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

NR
am 3/1/17

Sample Name: LLCCV Acquired: 3/1/2017 10:59:10 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: RERUN

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2077.2	36679.	2513.8
Stddev	17.5	44.	2.2
%RSD	.84154	.11967	.08626
#1	2064.8	36710.	2515.4
#2	2089.5	36648.	2512.3

NR
am 3/1/17

Sample Name: LLCCV,0.5 Acquired: 3/1/2017 11:01:38 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0211	F .0297	.0447	.0182	.0080	.00182	F -.0159
Stddev	.0007	.0008	.0016	.0044	.0004	.00001	.0024
%RSD	3.320	2.573	3.573	24.20	4.958	.38159	15.17
#1	.0206	.0302	.0436	.0213	.0077	.00183	-.0176
#2	.0216	.0292	.0458	.0150	.0083	.00182	-.0142
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value		.0200					.0400
Range		30.00%					-30.00%

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022	.0023	F .0568	.0415	.0078	.0047	.0080
Stddev	.0000	.0001	.0161	.0000	.0012	.0004	.0002
%RSD	.2793	3.251	28.41	.0409	15.09	9.470	2.596
#1	.0022	.0022	.0454	.0415	.0087	.0044	.0081
#2	.0022	.0023	.0683	.0415	.0070	.0050	.0078
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			.0400				
Range			30.00%				

Elem	Cu3273	Fe2599	Pb2203	Li6707	Mg2790	Mg2795	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0086	.0447	.0199	.0399	.0373	.0093	F .0064
Stddev	.0001	.0129	.0018	.0006	.1486	.0002	.0036
%RSD	.5828	28.87	8.895	1.453	398.6	1.788	55.26
#1	.0086	.0538	.0186	.0395	-.0678	.0094	.0090
#2	.0086	.0356	.0211	.0403	.1424	.0091	.0039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Fail
Value							.0100
Range							-30.00%

Sample Name: LLCCV,0.5 Acquired: 3/1/2017 11:01:38 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Mn2576	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00186	F .0032	.0073	.0079	.0815	.4256	.0496
Stddev	.00017	.0003	.0002	.0004	.0045	.0060	.0008
%RSD	9.2862	8.948	2.612	5.534	5.539	1.414	1.657
#1	.00198	.0030	.0072	.0076	.0847	.4214	.0490
#2	.00173	.0034	.0075	.0082	.0783	.4299	.0502
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		.0020					
Range		30.00%					

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4017	.0095	.4006	.00193	.0248	.0386	F .0027
Stddev	.0106	.0008	.0004	.00007	.0015	.0006	.0004
%RSD	2.633	8.116	.1112	3.4221	6.169	1.488	16.28
#1	.3942	.0090	.4009	.00188	.0237	.0390	.0024
#2	.4092	.0101	.4003	.00197	.0259	.0382	.0030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							.0040
Range							-30.00%

Elem	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0084	.0077	.0077	.0463	.0782
Stddev	.0012	.0003	.0003	.0040	.0061
%RSD	13.86	3.878	4.302	8.595	7.843
#1	.0092	.0079	.0075	.0435	.0826
#2	.0075	.0075	.0080	.0491	.0739
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: LLCCV,0.5 Acquired: 3/1/2017 11:01:38 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2080.3	37204.	2565.4
Stddev	.8	88.	4.5
%RSD	.03882	.23603	.17698
#1	2079.7	37142.	2568.6
#2	2080.9	37266.	2562.2

Sample Name: LLCCV-TCLP Acquired: 3/1/2017 11:04:58 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0022	.0018	.0002	.1996	-.00008	-.0475	-.0001
Stddev	.0009	.0009	.0009	.0044	.0012	.00005	.0006	.0000
%RSD	310.8	41.85	52.17	2386.	.6066	64.228	1.211	39.07
#1	.0003	.0028	.0011	.0033	.2004	-.00005	-.0471	-.0001
#2	-.0009	.0015	.0024	-.0029	.1987	-.00012	-.0480	-.0001
Check ?	None	None	None	None	Chk Pass	None	None	None
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0006	.0008	.0006	.0005	-.0003	.0003	-.0017
Stddev	.0002	.0152	.0000	.0010	.0002	.0000	.0006	.0137
%RSD	99.81	2708.	1.563	154.1	32.98	2.577	174.0	796.3
#1	.0003	-.0113	.0008	-.0001	.0006	-.0003	-.0001	.0080
#2	.0000	.0102	.0008	.0013	.0004	-.0003	.0008	-.0114
Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	-.0008	.0292	.0000	.0017	.00002	-.0008	-.0006
Stddev	.0005	.0009	.0573	.0002	.0013	.00006	.0027	.0003
%RSD	69.94	113.2	196.4	1196.	76.32	308.48	334.6	53.92
#1	-.0003	-.0014	-.0113	-.0001	.0008	.00006	-.0027	-.0009
#2	-.0010	-.0002	.0697	.0002	.0027	-.00002	.0011	-.0004
Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Sample Name: LLCCV-TCLP Acquired: 3/1/2017 11:04:58 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0004	.0385	.0057	.0102	.0011	.0064	-.00006
Stddev	.0006	.0112	.0201	.0008	.0168	.0001	.0031	.00004
%RSD	283.8	2612.	52.36	14.42	164.1	8.386	48.37	72.669
#1	-.0002	-.0083	.0527	.0051	-.0016	.0012	.0042	-.00009
#2	.0006	.0075	.0242	.0063	.0221	.0010	.0086	-.00003
Check ?	None	None	None	None	None	None	None	None
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011	-.0018	-.0014	.0001	.1970	.1901	.0002	-.0019
Stddev	.0061	.0016	.0000	.0001	.0007	.0010	.0030	.0017
%RSD	544.1	90.01	2.722	148.1	.3597	.5411	1668.	93.91
#1	.0054	-.0030	-.0014	.0002	.1975	.1908	-.0019	-.0006
#2	-.0032	-.0007	-.0014	.0000	.1965	.1893	.0023	-.0031
Check ?	None	None	None	None	Chk Pass	Chk Pass	None	None
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2069.0	36769.	2491.7
Stddev	4.7	49.	.9
%RSD	.22646	.13198	.03535
#1	2072.3	36803.	2492.3
#2	2065.6	36734.	2491.1

Sample Name: KQ1701633-02 Acquired: 3/1/2017 11:08:21 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2 K1701419-MB

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0022	.0009	-.0016	.0003	-.00018	F -.0654	.0001
#1	.0025	.0028	-.0016	.0000	-.00017	-.0654	.0001
#2	-.0070	-.0011	-.0017	.0005	-.00019	-.0654	.0001

Elem	Cd2265	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	F .0112	.0010	.0004	.0001	.0010	-.0024
#1	.0003	.0111	.0011	.0005	.0008	.0015	-.0015
#2	.0003	.0112	.0008	.0003	-.0006	.0004	-.0033

Elem	Pb2203	Li6707	Mg2795	Mn2576	Mo2020	Ni2216	P_1782
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011	.0009	.0011	.00001	-.0004	-.0005	.0181
#1	.0012	.0007	.0009	-.00007	-.0003	-.0006	.0142
#2	.0010	.0012	.0013	.00009	-.0004	-.0003	.0221

Elem	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0168	.0061	-.0117	.0017	.0231	-.00001	.0013
#1	.0077	.0066	.0075	.0012	.0272	-.00007	.0011
#2	.0260	.0056	-.0310	.0022	.0189	.00005	.0015

Elem	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0146	F -.0019	.0002	.0008	.0007	.0031	-.0115
#1	.0144	-.0019	.0005	.0005	.0005	.0011	-.0134
#2	.0147	-.0019	-.0001	.0011	.0010	.0050	-.0097

Sample Name: KQ1701633-02 Acquired: 3/1/2017 11:08:21 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2 K1701419-MB

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	**2075.4**	**36929.**	**2459.4**
#1	2075.3	36843.	2462.5
#2	2075.4	37016.	2456.2

Sample Name: KQ1701633-01 Acquired: 3/1/2017 11:10:46 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2 K1701419-LCSW

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.966	2.377	.4743	.4969	1.031	.04924	F .1773	.0511
#1	1.971	2.383	.4743	.4931	1.032	.04916	.1769	.0510
#2	1.961	2.370	.4743	.5006	1.030	.04931	.1776	.0511

Elem	Cd2265	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0483	4.877	.2032	.5199	.2534	.2593	1.024	.4908
#1	.0482	4.899	.2043	.5205	.2526	.2596	1.022	.4891
#2	.0483	4.856	.2021	.5194	.2542	.2591	1.026	.4925

Elem	Li6707	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013	4.757	.47387	.5041	.5017	.0123	5.105	.4558
#1	.0028	4.765	.47286	.5033	.5016	.0141	5.122	.4585
#2	-.0003	4.748	.47488	.5049	.5018	.0106	5.087	.4532

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0032	.0501	4.910	.00011	.1047	.0145	-.0014	.5133
#1	-.0175	.0500	4.902	.00023	.1034	.0151	-.0017	.5155
#2	.0112	.0502	4.918	.00000	.1060	.0140	-.0011	.5112

Elem	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm
Avg	.4758	.4609	.0037	-.0053
#1	.4755	.4599	.0021	-.0106
#2	.4761	.4619	.0053	.0000

Sample Name: KQ1701633-01 Acquired: 3/1/2017 11:10:46 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2 K1701419-LCSW

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2048.1	36696.	2555.8
#1	2048.7	36725.	2552.8
#2	2047.6	36668.	2558.8

Sample Name: K1701419-001 Acquired: 3/1/2017 11:13:07 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	37.29	.0028	.0297	.2893	.00391	.0016	.0026	.0025
#1	37.49	.0020	.0293	.2901	.00404	.0013	.0026	.0026
#2	37.10	.0037	.0301	.2886	.00378	.0020	.0025	.0023

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.77	.0370	.0214	.0917	.1027	64.04	.3316	.0305
#1	17.84	.0360	.0213	.0916	.1037	64.16	.3303	.0299
#2	17.70	.0380	.0216	.0918	.1017	63.91	.3330	.0311

Elem	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.68	.97030	.0026	.0357	1.306	10.91	.0051	15.49
#1	13.69	.96977	.0024	.0363	1.308	10.89	.0065	15.50
#2	13.67	.97082	.0029	.0351	1.304	10.92	.0037	15.49

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.2195	.10388	.0016	.0140	1.226	.0920	.2312
#1	-.0004	.2223	.10434	.0021	.0134	1.230	.0915	.2313
#2	.0009	.2168	.10341	.0011	.0145	1.223	.0925	.2312

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.2337	-.0015	.4359
#1	.2331	-.0014	.4378
#2	.2342	-.0017	.4340

Sample Name: K1701419-001 Acquired: 3/1/2017 11:13:07 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2135.8	38027.	2662.6
#1	2134.1	38044.	2657.1
#2	2137.5	38009.	2668.0

Sample Name: K1701419-001L Acquired: 3/1/2017 11:15:32 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 10 Test Type: Sample Type:
Comment: EM 030117A 1/10

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.502	.0003	.0038	.0601	.00085	-.0218	.0006	.0005
#1	7.518	.0013	.0012	.0596	.00074	-.0220	.0006	.0006
#2	7.486	-.0008	.0064	.0605	.00095	-.0216	.0006	.0005

Elem	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.629	.0072	.0050	.0201	.0205	13.45	.0683	.0074
#1	3.624	.0069	.0047	.0207	.0211	13.37	.0710	.0087
#2	3.635	.0075	.0052	.0194	.0199	13.53	.0656	.0062

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.539	.20536	.0002	.0079	.2719	2.107	.0051	3.075
#1	2.541	.20537	.0005	.0074	.2704	2.140	.0043	3.058
#2	2.537	.20535	-.0002	.0084	.2733	2.075	.0060	3.093

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	.0440	.02140	.0002	.0015	.2510	.0194	.0496
#1	.0009	.0336	.02129	.0040	.0013	.2521	.0191	.0492
#2	.0009	.0543	.02151	-.0036	.0017	.2498	.0197	.0500

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0487	.0018	.0809
#1	.0486	.0035	.0793
#2	.0489	.0001	.0826

Sample Name: K1701419-001L Acquired: 3/1/2017 11:15:32 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 10 Test Type: Sample Type:
Comment: EM 030117A 1/10

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2103.3	37486.	2562.8
#1	2102.3	37454.	2560.3
#2	2104.3	37517.	2565.3

Sample Name: K1701419-001S Acquired: 3/1/2017 11:17:53 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	44.82	.1575	.5208	1.311	.05373	.2179	.0517	.0490
#1	44.61	.1527	.5210	1.310	.05386	.2220	.0518	.0490
#2	45.02	.1623	.5206	1.313	.05361	.2138	.0515	.0490

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.24	.2383	.5166	.3349	.3569	68.80	.8134	.0341
#1	20.28	.2393	.5170	.3354	.3577	68.79	.8159	.0352
#2	20.19	.2373	.5163	.3344	.3560	68.80	.8109	.0330

Elem	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.22	1.5053	.4454	.5161	1.363	16.83	.4433	15.23
#1	17.17	1.5093	.4478	.5180	1.367	16.78	.4501	15.13
#2	17.26	1.5012	.4429	.5141	1.359	16.89	.4365	15.32

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0480	5.188	.10937	.0995	.0147	1.436	.5929	.6917
#1	.0483	5.164	.10935	.1016	.0147	1.438	.5969	.6926
#2	.0477	5.211	.10939	.0974	.0148	1.435	.5888	.6908

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.6853	-.0029	.4335
#1	.6842	-.0027	.4305
#2	.6865	-.0030	.4364

Sample Name: K1701419-001S Acquired: 3/1/2017 11:17:53 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2109.1	37089.	2584.9
#1	2103.2	37042.	2580.7
#2	2115.0	37137.	2589.0

Sample Name: K1701419-001SD Acquired: 3/1/2017 11:20:11 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	43.00	.1691	.5160	1.304	.05353	.2181	.0519	.0492
#1	43.04	.1723	.5176	1.309	.05381	.2157	.0521	.0492
#2	42.96	.1659	.5145	1.298	.05324	.2206	.0518	.0493

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.23	.2385	.5200	.3335	.3521	64.66	.7537	.0326
#1	22.10	.2382	.5198	.3337	.3509	64.71	.7528	.0337
#2	22.36	.2389	.5202	.3333	.3532	64.60	.7545	.0315

Elem	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	17.05	1.4737	.4550	.5178	1.345	16.44	.4605	13.13
#1	17.13	1.4763	.4573	.5191	1.349	16.52	.4584	13.13
#2	16.96	1.4711	.4527	.5165	1.341	16.35	.4626	13.13

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0481	5.207	.11268	.0962	.0142	1.436	.5931	.6835
#1	.0477	5.224	.11247	.0970	.0147	1.437	.5907	.6861
#2	.0486	5.189	.11289	.0954	.0137	1.436	.5955	.6809

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.6786	.0010	.4750
#1	.6775	-.0012	.4658
#2	.6797	.0031	.4842

Sample Name: K1701419-001SD Acquired: 3/1/2017 11:20:11 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2105.0	37131.	2579.6
#1	2100.9	37143.	2583.4
#2	2109.1	37118.	2575.9

Sample Name: K1701419-001A Acquired: 3/1/2017 11:22:30 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2 A=0.05/10mL CICV-1,3 + Sb 1000ppm

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.75	4.722	2.397	5.117	.12472	.0058	1.180	1.118
#1	41.80	4.726	2.387	5.135	.12479	.0033	1.181	1.118
#2	41.69	4.718	2.406	5.099	.12465	.0082	1.180	1.118

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	29.60	.5128	1.207	.6696	.7210	66.43	2.527	.0300
#1	29.78	.5099	1.207	.6695	.7202	66.68	2.527	.0292
#2	29.42	.5157	1.207	.6697	.7218	66.19	2.527	.0308

Elem	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.31	2.0529	.0024	1.177	1.304	23.31	2.187	15.30
#1	25.23	2.0592	.0022	1.178	1.305	23.21	2.184	15.27
#2	25.38	2.0467	.0026	1.176	1.303	23.42	2.189	15.33

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5785	12.20	.10395	2.230	.0153	1.227	1.306	1.350
#1	.5782	12.14	.10397	2.237	.0142	1.225	1.303	1.347
#2	.5789	12.26	.10393	2.223	.0165	1.229	1.309	1.353

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	1.330	.0038	.4268
#1	1.325	.0069	.4270
#2	1.335	.0008	.4265

NR- N/A
am 3/1/17

Sample Name: K1701419-001A Acquired: 3/1/2017 11:22:30 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2 A=0.05/10mL CICV-1,3 + Sb 1000ppm

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2099.9	37108.	2602.3
#1	2097.9	37176.	2587.8
#2	2101.8	37040.	2616.8

NR-N/A
am 3/1/17

Sample Name: K1701419-002 Acquired: 3/1/2017 11:24:41 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	37.07	.0204	.0239	.3512	.01002	-.0016	.0003	.0002
#1	37.18	.0187	.0215	.3524	.01010	-.0042	.0003	.0000
#2	36.96	.0221	.0264	.3500	.00994	.0011	.0003	.0004

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	124.6	.0144	.0099	.0139	.0243	47.47	.0398	.0425
#1	125.0	.0134	.0100	.0131	.0247	47.78	.0411	.0412
#2	124.1	.0154	.0098	.0148	.0239	47.16	.0384	.0438

Elem	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.026	8.789	1.1190	.0130	.0244	.8943	6.793	.0029
#1	7.044	8.771	1.1209	.0128	.0246	.8957	6.774	.0032
#2	7.007	8.806	1.1172	.0131	.0243	.8930	6.812	.0026

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.31	-.0051	.1794	.22217	-.0052	.0106	.5567	.0579
#1	12.27	-.0044	.1865	.22312	-.0033	.0120	.5568	.0581
#2	12.35	-.0058	.1722	.22122	-.0071	.0091	.5567	.0578

Elem	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm
Avg	.1341	.1493	-.0224	.2205
#1	.1344	.1500	-.0246	.2289
#2	.1338	.1487	-.0201	.2121

Sample Name: K1701419-002 Acquired: 3/1/2017 11:24:41 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2258.6	40371.	2886.5
#1	2258.7	40391.	2874.6
#2	2258.5	40350.	2898.3

Sample Name: K1701419-003 Acquired: 3/1/2017 11:27:02 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	78.45	.0070	.0316	.3027	.01862	.0176	.0005	.0003
#1	78.26	.0055	.0276	.3031	.01865	.0175	.0006	.0003
#2	78.64	.0085	.0356	.3022	.01859	.0178	.0003	.0002

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.07	.1395	.0096	.0193	.0360	66.44	.0598	.0647
#1	10.07	.1388	.0099	.0191	.0347	66.25	.0600	.0636
#2	10.06	.1403	.0093	.0196	.0374	66.64	.0597	.0658

Elem	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.64	1.1002	.0072	.0149	.6325	16.06	.0002	12.71
#1	22.71	1.0986	.0067	.0152	.6341	16.12	.0035	12.72
#2	22.57	1.1017	.0076	.0146	.6308	16.00	-.0032	12.70

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0074	2.168	.26807	-.0004	.0197	.9867	.0537	.3235
#1	-.0069	2.174	.26810	-.0026	.0201	.9893	.0541	.3242
#2	-.0079	2.162	.26805	.0018	.0194	.9840	.0533	.3228

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.4280	-.0379	.3573
#1	.4271	-.0378	.3606
#2	.4288	-.0381	.3540

NR- see 1/10 dilution
am 3/1/17

Sample Name: K1701419-003 Acquired: 3/1/2017 11:27:02 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	W 2758.1	W 48514.	W 3462.0
#1	2754.6	48444.	3468.9
#2	2761.6	48584.	3455.0

NR- see 1/10 dilution
am 3/1/17

Sample Name: KQ1701756-01 Acquired: 3/1/2017 11:29:31 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A K1701512-MB

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0031	.0026	-.0044	.0002	.00004	F -.0618	.0000
#1	-.0020	.0058	-.0042	.0000	-.00010	-.0687	.0000
#2	-.0042	-.0006	-.0045	.0003	.00017	-.0549	-.0001

Elem	Cd2265	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0037	.0008	.0010	-.0003	.0000	.0123
#1	.0001	.0037	.0012	.0007	-.0003	-.0004	.0142
#2	.0001	.0036	.0004	.0012	-.0002	.0003	.0103

Elem	Pb2203	Li6707	Mg2795	Mn2576	Mo2020	Ni2216	P_1782
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	.0006	.0013	.00006	.0002	-.0001	.0082
#1	.0001	.0008	.0013	.00000	-.0001	-.0002	.0061
#2	-.0014	.0004	.0014	.00012	.0005	.0001	.0102

Elem	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0402	.0022	.0088	.0012	.0073	.00008	.0011
#1	-.0023	-.0023	-.0069	.0008	.0100	.00003	.0025
#2	.0826	.0067	.0244	.0016	.0046	.00014	-.0003

Elem	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0021	-.0011	.0002	.0004	.0002	.0047	-.0017
#1	-.0014	-.0011	.0002	.0003	.0002	.0035	.0088
#2	-.0027	-.0011	.0003	.0005	.0001	.0059	-.0123

Sample Name: KQ1701756-01 Acquired: 3/1/2017 11:29:31 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A K1701512-MB

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2069.1	37080.	2563.4
#1	2071.0	37001.	2561.4
#2	2067.1	37159.	2565.3

Sample Name: CCVB Acquired: 3/1/2017 11:33:44 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.465	F 11.47	-.0018	1.001	10.13	-.00006	-.0001	.0000
Stddev	.087	.04	.0032	.001	.03	.00007	.0043	.000
%RSD	1.164	.3303	177.1	.1128	.3401	122.31	3710.	107.7
#1	7.527	11.45	-.0040	.9998	10.10	-.00010	-.0031	.0000
#2	7.404	11.50	.0004	1.001	10.15	-.00001	.0029	.0000
Check ?	None	Chk Fail	None	Chk Pass	Chk Pass	None	None	None
Value		10.00						
Range		10.44%						

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	9.706	9.431	.0002	.0008	-.0012	.0006	9.966
Stddev	.0002	.018	.041	.0002	.0007	.0005	.0000	.041
%RSD	266.5	.1823	.4371	99.71	86.16	40.04	6.464	.4060
#1	-.0001	9.693	9.402	.0000	.0013	-.0009	.0006	9.937
#2	.0003	9.718	9.460	.0003	.0003	-.0016	.0006	9.994
Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026	1.014	9.816	9.200	10.13	.93221	1.015	.0001
Stddev	.0009	.002	.105	.023	.01	.00026	.010	.0005
%RSD	36.18	.2052	1.073	.2476	.1155	.02780	1.017	923.6
#1	.0032	1.016	9.890	9.216	10.14	.93203	1.022	.0004
#2	.0019	1.013	9.741	9.184	10.12	.93240	1.008	-.0003
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass	None
Value								
Range								

Sample Name: CCVB Acquired: 3/1/2017 11:33:44 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	10.51	10.16	.0031	10.17	.0017	9.797	.97663
Stddev	.0004	.08	.01	.0016	.00	.0012	.001	.00125
%RSD	57.57	.7342	.0498	52.30	.0386	70.79	.0059	.12770
#1	.0010	10.57	10.16	.0019	10.17	.0025	9.797	.97574
#2	.0004	10.46	10.16	.0042	10.17	.0008	9.797	.97751
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0014	-.0003	-.0010	.0006	-.0002	-.0002	1.077	.9935
Stddev	.0033	.0003	.0003	.0003	.0001	.0001	.009	.0103
%RSD	237.5	97.42	26.93	53.90	50.50	73.15	.8800	1.032
#1	-.0037	-.0001	-.0008	.0008	-.0001	-.0002	1.084	1.001
#2	.0009	-.0005	-.0012	.0004	-.0003	-.0001	1.070	.9862
Check ?	None	None	None	None	None	None	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2066.5	36348.	2566.7
Stddev	4.0	153.	2.2
%RSD	.19594	.42178	.08415
#1	2063.6	36240.	2568.2
#2	2069.3	36456.	2565.2

Sample Name: CCVA Acquired: 3/1/2017 11:36:14 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2592	.2964	.2618	.2492	.2538	.25617	F .1983	.2583
Stddev	.0009	.0023	.0007	.0015	.0012	.00046	.0029	.0004
%RSD	.3596	.7826	.2774	.6032	.4888	.17850	1.487	.1418
#1	.2599	.2981	.2612	.2503	.2547	.25650	.1962	.2581
#2	.2586	.2948	.2623	.2482	.2529	.25585	.2004	.2586
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Fail	Chk Pass
Value							.2500	
Range							-10.44%	

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2465	.4948	.4833	.2503	.2566	.2574	.2600	.2488
Stddev	.0007	.0160	.0007	.0014	.0009	.0003	.0013	.0006
%RSD	.2964	3.228	.1367	.5652	.3517	.1308	.5154	.2441
#1	.2460	.5061	.4838	.2493	.2560	.2571	.2609	.2484
#2	.2470	.4835	.4829	.2513	.2573	.2576	.2591	.2493
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2484	.0018	.2485	.2395	.2553	.23837	.2478	.2424
Stddev	.0019	.0009	.1426	.0002	.0018	.00040	.0005	.0010
%RSD	.7547	49.90	57.39	.0744	.7194	.16588	.1841	.4262
#1	.2471	.0024	.1477	.2397	.2540	.23865	.2481	.2417
#2	.2498	.0011	.3494	.2394	.2566	.23809	.2475	.2432
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass	None	Chk Pass
Value								
Range								

Sample Name: CCVA Acquired: 3/1/2017 11:36:14 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2517	.0005	2.411	.2533	.1201	.2556	.2393	.00018
Stddev	.0007	.0009	.018	.0015	.0134	.0014	.0003	.00003
%RSD	.2652	158.6	.7267	.5941	11.14	.5563	.1173	18.043
#1	.2512	-.0001	2.399	.2544	.1107	.2546	.2395	.00016
#2	.2522	.0011	2.424	.2522	.1296	.2566	.2391	.00021
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass	None	None
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2626	.2503	.2541	.2488	.2430	.2419	.0031	-.0081
Stddev	.0028	.0009	.0008	.0027	.0007	.0009	.0003	.0070
%RSD	1.048	.3713	.3279	1.076	.2874	.3517	10.53	86.38
#1	.2645	.2510	.2535	.2469	.2425	.2413	.0033	-.0031
#2	.2606	.2496	.2547	.2507	.2435	.2425	.0028	-.0130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2096.9	37159.	2567.3
Stddev	2.4	39.	3.8
%RSD	.11674	.10572	.14838
#1	2098.6	37187.	2564.6
#2	2095.2	37132.	2570.0

Sample Name: CCB Acquired: 3/1/2017 11:38:32 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0041	.0028	.0032	-.0026	-.0001	-.00001	F -.0549
Stddev	.0033	.0027	.0016	.0052	.0004	.00012	.0007
%RSD	80.16	96.83	50.83	197.1	493.7	2324.7	1.302
#1	-.0018	.0009	.0020	.0010	.0002	-.00009	-.0544
#2	-.0064	.0048	.0043	-.0063	-.0003	.00008	-.0554
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.0050
Low Limit							-.0050

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0001	-.0042	-.0001	.0004	.0007	-.0013
Stddev	.0000	.0001	.0087	.0001	.0000	.0003	.0003
%RSD	18.79	211.4	206.6	43.31	.7716	51.78	20.14
#1	.0002	.0001	.0019	-.0001	.0004	.0004	-.0015
#2	.0003	.0000	-.0104	-.0002	.0004	.0009	-.0011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cu3273	Fe2599	Pb2203	Li6707	Mg2790	Mg2795	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	.0058	-.0044	.0009	.0807	.0000	-.0004
Stddev	.0014	.0004	.0008	.0002	.0338	.000	.0035
%RSD	188.5	6.402	17.27	21.87	41.91	4761.	784.1
#1	-.0017	.0056	-.0039	.0007	.1047	.0001	.0020
#2	.0002	.0061	-.0049	.0010	.0568	-.0001	-.0029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 3/1/2017 11:38:32 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Mn2576	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00009	-.0033	.0007	.0007	-.0002	.0351	.0063
Stddev	.00003	.0013	.0002	.0006	.0123	.0111	.0023
%RSD	31.731	39.43	34.32	97.61	5512.	31.54	36.18
#1	-.00007	-.0024	.0005	.0011	-.0089	.0273	.0047
#2	-.00011	-.0042	.0009	.0002	.0085	.0429	.0079
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0038	.0011	.0006	-.00012	.0020	-.0008	-.0012
Stddev	.0140	.0004	.0119	.00015	.0007	.0001	.0001
%RSD	370.3	36.91	1834.	120.80	34.74	9.049	9.764
#1	.0061	.0014	.0091	-.00002	.0025	-.0007	-.0013
#2	-.0137	.0008	-.0078	-.00023	.0015	-.0008	-.0011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0007	.0001	-.0001	-.0003	-.0056
Stddev	.0008	.0000	.0002	.0007	.0032
%RSD	116.8	15.73	193.1	278.1	57.26
#1	.0001	.0001	.0000	.0002	-.0079
#2	.0012	.0001	-.0002	-.0007	-.0033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB Acquired: 3/1/2017 11:38:32 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2086.4	37070.	2572.8
Stddev	7.0	154.	6.4
%RSD	.33686	.41541	.24781
#1	2081.4	36961.	2577.4
#2	2091.3	37179.	2568.3

Sample Name: K1701419-003 Acquired: 3/1/2017 11:41:04 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 10 Test Type: Sample Type:
Comment: EM 030117A 1/10

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.88	-.0014	.0057	.0761	.00393	-.0098	.0002	.0004
#1	15.97	-.0029	.0046	.0757	.00404	-.0100	.0002	.0004
#2	15.80	.0001	.0067	.0765	.00383	-.0096	.0002	.0004

Elem	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.513	.0352	.0030	.0052	.0066	17.03	.0153	.0129
#1	2.508	.0351	.0026	.0050	.0073	17.09	.0161	.0135
#2	2.518	.0352	.0033	.0055	.0059	16.96	.0146	.0123

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.939	.28531	.0022	.0037	.1602	3.055	-.0010	2.554
#1	3.939	.28647	.0024	.0028	.1584	3.065	.0005	2.560
#2	3.938	.28415	.0019	.0046	.1620	3.044	-.0024	2.548

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.4194	.06750	-.0021	.0039	.2487	.0129	.0848
#1	-.0002	.4120	.06735	-.0022	.0041	.2501	.0129	.0850
#2	-.0003	.4268	.06766	-.0020	.0038	.2473	.0129	.0847

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0895	-.0073	.0684
#1	.0892	-.0072	.0702
#2	.0899	-.0074	.0666

Sample Name: K1701419-003 Acquired: 3/1/2017 11:41:04 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 10 Test Type: Sample Type:
Comment: EM 030117A 1/10

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2240.7	39583.	2759.0
#1	2234.1	39482.	2751.5
#2	2247.2	39684.	2766.5

Sample Name: KQ1701756-02 Acquired: 3/1/2017 11:43:23 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A K1701512-LCSW

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.051	1.703	2.131	4.520	.10709	F .3864	1.092
#1	5.084	1.702	2.133	4.533	.10770	.3815	1.090
#2	5.018	1.703	2.128	4.506	.10649	.3913	1.093

Elem	Cd2265	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1.046	10.84	.4406	1.123	.5528	.5624	2.233
#1	1.045	10.80	.4424	1.122	.5521	.5646	2.226
#2	1.048	10.89	.4387	1.124	.5535	.5602	2.241

Elem	Pb2203	Li6707	Mg2852	Mn2576	Mo2020	Ni2216	P_1782
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 2.095	.0000	10.90	F 1.0248	.8629	1.084	.0073
#1	2.091	.0006	10.93	1.0236	.8618	1.081	.0065
#2	2.098	-.0005	10.87	1.0259	.8640	1.086	.0081

Elem	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.87	F 2.006	.0211	F .5252	F 10.59	.00005	2.160
#1	10.90	1.997	-.0012	.5256	10.59	-.00004	2.160
#2	10.85	2.014	.0435	.5249	10.58	.00014	2.159

Elem	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	8.871	1.118	F 1.037	F .9965	.0063	.0030
#1	.0011	8.908	1.124	1.038	.9933	.0084	.0044
#2	.0003	8.835	1.112	1.037	.9998	.0041	.0015

Sample Name: KQ1701756-02 Acquired: 3/1/2017 11:43:23 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A K1701512-LCSW

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2033.5	36112.	2522.2
#1	2033.0	36103.	2520.4
#2	2033.9	36122.	2524.1

Sample Name: K1701512-001 Acquired: 3/1/2017 11:47:18 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0201	.0029	.0010	.0086	-.00023	.8083	.0004	.0004
#1	.0156	.0022	.0008	.0089	-.00038	.8054	.0004	.0006
#2	.0246	.0036	.0012	.0083	-.00008	.8112	.0003	.0002

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.56	.0030	.0006	.0082	.0097	.6755	.0045	.0029
#1	27.47	.0032	.0003	.0075	.0097	.6812	.0028	.0040
#2	27.64	.0028	.0010	.0089	.0097	.6698	.0063	.0018

Elem	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.921	8.837	.01938	.0031	.0030	32.59	9.917	.0041
#1	7.891	8.858	.01916	.0032	.0028	32.74	9.937	.0086
#2	7.950	8.815	.01961	.0030	.0032	32.45	9.896	-.0003

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.39	.0012	8.956	.13331	.0040	-.0001	.0032	.0084
#1	22.38	.0008	8.956	.13313	.0057	.0005	.0031	.0083
#2	22.39	.0017	8.957	.13349	.0023	-.0006	.0032	.0084

Elem	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm
Avg	.0401	.0387	.0046	2.912
#1	.0395	.0390	.0087	2.972
#2	.0408	.0384	.0004	2.853

Sample Name: K1701512-001 Acquired: 3/1/2017 11:47:18 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2005.9	36258.	2589.5
#1	2032.3	36205.	2596.2
#2	1979.5	36310.	2582.8

Sample Name: K1701512-001D Acquired: 3/1/2017 11:49:43 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0150	-.0019	-.0077	.0085	-.00017	.8080	.0003	.0004
#1	.0124	-.0015	-.0107	.0088	-.00014	.8068	.0002	.0003
#2	.0176	-.0024	-.0046	.0081	-.00020	.8093	.0004	.0004

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.89	.0016	.0011	.0077	.0085	.6936	.0041	.0016
#1	28.04	.0018	.0011	.0080	.0096	.6895	.0037	.0014
#2	27.74	.0015	.0010	.0073	.0073	.6977	.0045	.0018

Elem	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.005	8.689	.01910	.0027	.0033	32.72	9.678	.0048
#1	8.019	8.573	.01894	.0024	.0036	32.81	9.527	.0031
#2	7.991	8.804	.01925	.0030	.0030	32.63	9.829	.0065

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.01	.0008	8.726	.13374	-.0026	-.0009	.0012	.0083
#1	21.82	.0006	8.576	.13312	-.0018	-.0005	.0012	.0088
#2	22.19	.0011	8.877	.13436	-.0035	-.0013	.0013	.0077

Elem	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm
Avg	.0389	.0381	.0015	2.966
#1	.0390	.0380	.0041	2.960
#2	.0389	.0382	-.0010	2.971

Sample Name: K1701512-001S Acquired: 3/1/2017 11:52:09 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2004.8	36162.	2575.4
#1	2005.1	36047.	2588.8
#2	2004.4	36276.	2562.1

Sample Name: K1701537-001 Acquired: 3/1/2017 11:54:26 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: D Sample Type:
Comment: EM 030117A DISS

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0024	.0013	-.0018	.0031	-.00014	-.0007	.0001	.0003
#1	-.0039	.0014	.0018	.0033	-.00015	-.0039	.0001	.0003
#2	-.0008	.0013	-.0054	.0029	-.00014	.0025	.0002	.0003

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.09	.0008	.0008	.0015	.0027	-.0059	.0013	.0055
#1	13.07	.0005	.0004	.0012	.0025	.0040	-.0005	.0068
#2	13.11	.0010	.0013	.0019	.0029	-.0159	.0032	.0042

Elem	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.09	.00014	.0018	.0007	.0330	2.933	.0083	13.30
#1	11.11	.00008	.0023	.0006	.0330	2.943	.0050	13.28
#2	11.07	.00020	.0013	.0009	.0330	2.923	.0116	13.32

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	14.80	.05314	-.0001	-.0001	.0024	.0018	.0057
#1	.0007	14.82	.05327	.0004	.0006	.0010	.0024	.0057
#2	.0010	14.78	.05301	-.0005	-.0009	.0038	.0011	.0057

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0054	.0022	4.678
#1	.0055	.0016	4.683
#2	.0053	.0029	4.674

Sample Name: K1701537-001 Acquired: 3/1/2017 11:54:26 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: D Sample Type:
Comment: EM 030117A DISS

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2028.1	36565.	2546.2
#1	2028.8	36529.	2542.9
#2	2027.4	36601.	2549.4

Sample Name: K1701537-001D Acquired: 3/1/2017 11:56:54 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: D Sample Type:
Comment: EM 030117A DISS

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0024	.0003	-.0051	.0030	-.00017	-.0203	.0000	.0002
#1	.0024	-.0009	-.0031	.0032	-.00007	-.0191	-.0001	.0001
#2	-.0072	.0016	-.0071	.0029	-.00027	-.0214	.0001	.0002

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.23	-.0002	.0001	.0025	.0027	-.0051	.0015	.0059
#1	13.24	.0002	-.0001	.0020	.0027	-.0026	.0014	.0052
#2	13.22	-.0005	.0004	.0030	.0027	-.0075	.0017	.0066

Elem	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.22	.00004	-.0001	.0007	.0228	2.979	.0031	13.36
#1	11.24	.00006	-.0006	.0007	.0192	2.970	.0015	13.38
#2	11.21	.00002	.0003	.0008	.0264	2.987	.0046	13.34

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018	15.03	.05387	.0006	-.0006	-.0010	.0016	.0050
#1	.0023	15.10	.05398	.0037	-.0004	-.0011	.0010	.0047
#2	.0012	14.97	.05376	-.0025	-.0009	-.0009	.0021	.0053

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0044	.0032	4.731
#1	.0043	.0013	4.719
#2	.0044	.0052	4.743

Sample Name: K1701537-001D Acquired: 3/1/2017 11:56:54 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: D Sample Type:
Comment: EM 030117A DISS

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2030.0	36101.	2548.5
#1	2031.7	36171.	2556.2
#2	2028.3	36031.	2540.8

Sample Name: K1701537-001S Acquired: 3/1/2017 11:59:22 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: D Sample Type:
Comment: EM 030117A DISS

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.635	.3828	.8255	.8662	.04164	.3644	.0424	.0408
#1	1.636	.3831	.8236	.8675	.04173	.3618	.0428	.0409
#2	1.633	.3824	.8274	.8648	.04155	.3670	.0420	.0407

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	21.00	.1695	.4267	.2127	.2132	.8467	.4042	.0064
#1	20.96	.1702	.4279	.2122	.2123	.8340	.4034	.0058
#2	21.04	.1688	.4255	.2132	.2141	.8594	.4051	.0070

Elem	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.81	.39538	.8464	.4137	.0267	11.37	.7893	12.60
#1	18.90	.39575	.8465	.4142	.0288	11.43	.7958	12.60
#2	18.73	.39500	.8463	.4132	.0247	11.32	.7827	12.60

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0421	22.41	.05131	.1687	-.0011	8.896	.4313	.4042
#1	.0426	22.48	.05113	.1703	-.0029	8.923	.4330	.4045
#2	.0416	22.34	.05148	.1671	.0006	8.869	.4297	.4040

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.3894	.0036	4.525
#1	.3882	.0019	4.522
#2	.3906	.0053	4.528

Sample Name: K1701537-001S Acquired: 3/1/2017 11:59:22 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: D Sample Type:
Comment: EM 030117A DISS

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2018.7	35963.	2504.8
#1	2015.0	35860.	2512.5
#2	2022.4	36066.	2497.2

Sample Name: K1701537-002 Acquired: 3/1/2017 12:01:42 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: D Sample Type:
Comment: EM 030117A DISS

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022	.0014	-.0012	.0014	-.00015	-.0565	-.0001	.0003
#1	.0026	.0009	.0031	.0014	-.00031	-.0571	.0000	.0002
#2	.0018	.0019	-.0054	.0015	.00000	-.0559	-.0002	.0004

Elem	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.442	.0013	.0009	-.0007	-.0009	-.0068	.0047	.0054
#1	6.455	.0013	.0005	-.0003	-.0005	-.0103	.0035	.0049
#2	6.430	.0012	.0013	-.0010	-.0012	-.0033	.0060	.0059

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.825	.00000	.0018	.0004	.0503	2.558	.0079	12.80
#1	4.800	-.00008	.0016	.0008	.0503	2.536	.0086	12.80
#2	4.849	.00007	.0021	.0001	.0502	2.580	.0071	12.80

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	6.796	.02593	.0038	-.0015	.0011	.0026	.0004
#1	.0001	6.805	.02563	.0015	-.0018	.0010	.0021	.0007
#2	.0016	6.786	.02624	.0061	-.0012	.0011	.0031	.0000

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0006	.0028	2.947
#1	.0006	.0043	2.946
#2	.0005	.0013	2.949

Sample Name: K1701537-002 Acquired: 3/1/2017 12:01:42 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: D Sample Type:
Comment: EM 030117A DISS

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2047.0	36521.	2519.2
#1	2044.5	36456.	2534.1
#2	2049.5	36585.	2504.3

Sample Name: K1701483-001 Acquired: 3/1/2017 12:04:12 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: D Sample Type:
Comment: EM 030117A DISS

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0726	.0020	-.0030	.0418	-.00011	-.0394	.0000	.0003
#1	.0747	.0047	-.0038	.0411	-.00005	-.0398	-.0001	.0003
#2	.0704	-.0007	-.0023	.0424	-.00017	-.0391	.0000	.0003

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.24	.0012	.0010	.0003	.0006	.0857	-.0006	.0025
#1	14.18	.0013	.0012	.0002	.0006	.0886	.0018	.0033
#2	14.30	.0012	.0007	.0005	.0007	.0827	-.0030	.0016

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.539	.12292	.0004	.0001	.1106	10.55	.0107	5.526
#1	2.535	.12318	.0003	-.0001	.1125	10.60	.0086	5.520
#2	2.543	.12266	.0006	.0002	.1087	10.50	.0128	5.531

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	114.5	.06783	-.0003	-.0002	.0004	.0016	.0029
#1	.0012	114.9	.06793	-.0009	-.0023	.0003	.0019	.0029
#2	-.0006	114.2	.06773	.0004	.0019	.0004	.0013	.0028

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0029	.0029	31.46
#1	.0028	.0041	31.51
#2	.0029	.0017	31.42

Sample Name: K1701483-001 Acquired: 3/1/2017 12:04:12 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: D Sample Type:
Comment: EM 030117A DISS

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1968.3	34743.	2515.4
#1	1971.3	34729.	2523.8
#2	1965.2	34757.	2507.1

Sample Name: CCVB Acquired: 3/1/2017 12:06:38 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.566	10.96	-.0002	.9942	10.01	-.00003	-.0147	.0003
Stddev	.027	.04	.0011	.0039	.26	.00014	.0028	.0001
%RSD	.3627	.3382	594.0	.3927	2.587	398.70	18.70	41.78
#1	7.585	10.93	-.0010	.9970	10.19	-.00013	-.0167	.0002
#2	7.546	10.99	.0006	.9915	9.822	.00006	-.0128	.0003
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	None	None
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	9.901	9.512	.0002	.0007	.0004	.0002	10.01
Stddev	.0000	.021	.104	.0006	.0002	.0001	.0009	.01
%RSD	.3613	.2136	1.092	358.3	31.25	19.51	362.8	.1310
#1	.0003	9.886	9.585	-.0003	.0009	.0004	.0009	10.000
#2	.0003	9.916	9.438	.0006	.0006	.0005	-.0004	10.02
Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.9778	10.25	9.336	9.983	.95967	1.002	.0002
Stddev	.002	.0010	.04	.041	.000	.00262	.015	.0000
%RSD	5243.	.0984	.4279	.4381	.0020	.27318	1.508	11.40
#1	-.0015	.9771	10.22	9.307	9.983	.96153	1.013	.0002
#2	.0014	.9784	10.28	9.364	9.982	.95782	.9914	.0003
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass	None
Value								
Range								

Sample Name: CCVB Acquired: 3/1/2017 12:06:38 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	10.25	9.835	.0018	10.17	.0013	9.611	.97482
Stddev	.0003	.00	.007	.0012	.04	.0002	.009	.00423
%RSD	77.27	.0421	.0734	68.57	.3926	11.98	.0985	.43419
#1	.0006	10.25	9.830	.0009	10.14	.0012	9.617	.97182
#2	.0002	10.26	9.840	.0027	10.19	.0014	9.604	.97781
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	-.0013	-.0002	.0005	.0004	-.0004	1.050	.9984
Stddev	.0038	.0004	.0001	.0009	.0001	.0001	.003	.0067
%RSD	557.0	31.92	64.33	187.0	15.94	28.43	.2959	.6667
#1	-.0020	-.0016	-.0003	.0011	.0005	-.0005	1.052	1.003
#2	.0034	-.0010	-.0001	-.0002	.0004	-.0003	1.048	.9936
Check ?	None	None	None	None	None	None	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2073.1	36116.	2511.8
Stddev	.2	190.	4.2
%RSD	.00910	.52633	.16799
#1	2073.2	35982.	2514.8
#2	2072.9	36251.	2508.8

Sample Name: CCVA Acquired: 3/1/2017 12:09:07 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2581	.2946	.2513	.2505	.2519	.25444	F .1685	.2577
Stddev	.0027	.0012	.0034	.0023	.0008	.00055	.0032	.0005
%RSD	1.042	.4140	1.338	.9287	.3176	.21616	1.875	.2121
#1	.2600	.2937	.2537	.2522	.2513	.25482	.1707	.2581
#2	.2562	.2954	.2489	.2489	.2524	.25405	.1662	.2573
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Fail	Chk Pass
Value							.2500	
Range							-10.44%	

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2471	.5016	.4839	.2531	.2555	.2564	.2563	.2688
Stddev	.0001	.0250	.0020	.0008	.0008	.0003	.0002	.0028
%RSD	.0217	4.978	.4148	.3111	.3183	.1250	.0745	1.057
#1	.2470	.4840	.4853	.2536	.2560	.2562	.2562	.2668
#2	.2471	.5193	.4825	.2525	.2549	.2566	.2564	.2708
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2496	-.0002	.2981	.2428	.2499	.24384	.2460	.2429
Stddev	.0037	.0003	.0014	.0023	.0031	.00037	.0026	.0005
%RSD	1.491	133.1	.4615	.9450	1.221	.15030	1.052	.2108
#1	.2470	.0000	.2991	.2444	.2521	.24358	.2478	.2433
#2	.2522	-.0004	.2972	.2412	.2478	.24410	.2441	.2425
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass	None	Chk Pass
Value								
Range								

Sample Name: CCVA Acquired: 3/1/2017 12:09:07 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2517	.0000	2.309	.2508	.1217	.2532	.2511	-.00001
Stddev	.0006	.0066	.070	.0049	.0295	.0004	.0028	.00028
%RSD	.2388	67640.	3.031	1.955	24.26	.1646	1.134	2449.8
#1	.2512	-.0046	2.259	.2474	.1008	.2535	.2491	.00018
#2	.2521	.0047	2.358	.2543	.1426	.2529	.2531	-.00021
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass	None	None
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2607	.2504	.2536	.2522	.2470	.2450	.0095	-.0103
Stddev	.0005	.0008	.0008	.0006	.0001	.0006	.0072	.0110
%RSD	.2035	.3121	.3212	.2391	.0520	.2405	75.45	106.7
#1	.2610	.2498	.2542	.2526	.2469	.2454	.0044	-.0181
#2	.2603	.2509	.2530	.2518	.2471	.2446	.0145	-.0025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2101.4	36993.	2511.5
Stddev	3.1	61.	10.1
%RSD	.14753	.16387	.40236
#1	2103.6	36950.	2504.4
#2	2099.2	37036.	2518.7

Sample Name: CCB Acquired: 3/1/2017 12:11:25 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0008	-.0007	.0036	.0005	.0000	-.00009	F -.0749
Stddev	.0015	.0017	.0017	.0008	.001	.00000	.0062
%RSD	181.1	254.0	47.32	163.8	1947.	2.8003	8.336
#1	.0002	.0005	.0048	.0011	-.0004	-.00008	-.0704
#2	-.0019	-.0019	.0024	-.0001	.0004	-.00009	-.0793
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.0050
Low Limit							-.0050

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0001	-.0034	.0000	-.0007	.0004	.0001
Stddev	.0000	.0003	.0047	.000	.0008	.0001	.0001
%RSD	24.65	210.4	138.3	589.5	119.7	20.01	40.87
#1	-.0001	-.0001	-.0001	.0001	-.0012	.0005	.0002
#2	-.0001	.0003	-.0067	-.0001	-.0001	.0004	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cu3273	Fe2599	Pb2203	Li6707	Mg2790	Mg2795	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0011	-.0019	.0013	.0827	-.0001	-.0037
Stddev	.0013	.0075	.0024	.0007	.0257	.0000	.0050
%RSD	727.9	666.4	124.9	57.87	31.12	49.96	137.3
#1	-.0011	-.0042	-.0002	.0018	.1008	-.0001	-.0072
#2	.0007	.0064	-.0036	.0007	.0645	-.0001	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 3/1/2017 12:11:25 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Mn2576	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00005	.0010	.0004	-.0002	.0018	.0177	.0026
Stddev	.00008	.0023	.0004	.0001	.0031	.0579	.0039
%RSD	143.79	239.6	124.0	56.07	174.0	326.5	147.9
#1	.00011	-.0007	.0000	-.0001	.0040	-.0232	-.0001
#2	.00000	.0026	.0007	-.0003	-.0004	.0587	.0054
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0124	.0001	.0005	-.00011	.0016	-.0007	-.0012
Stddev	.0176	.0002	.0079	.00017	.0016	.0006	.0005
%RSD	142.4	116.1	1473.	156.86	102.9	96.93	39.58
#1	-.0001	.0000	-.0051	.00001	.0004	-.0011	-.0009
#2	.0248	.0002	.0061	-.00022	.0027	-.0002	-.0015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0003	-.0002	.0023	-.0106
Stddev	.0010	.0002	.0000	.0001	.0063
%RSD	1367.	81.62	22.40	5.740	59.71
#1	-.0008	.0001	-.0002	.0024	-.0061
#2	.0007	.0005	-.0002	.0022	-.0151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB Acquired: 3/1/2017 12:11:25 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2092.7	37200.	2557.6
Stddev	5.8	82.	4.3
%RSD	.27577	.22125	.16969
#1	2088.7	37258.	2554.5
#2	2096.8	37141.	2560.6

Sample Name: LLCCV Acquired: 3/1/2017 12:14:06 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0108	F .0147	.0202	F .0064	.0042	.00096	F -.0626
Stddev	.0012	.0009	.0041	.0010	.0001	.00010	.0008
%RSD	11.49	6.378	20.22	15.78	3.489	10.296	1.203
#1	.0117	.0154	.0173	.0057	.0041	.00103	-.0620
#2	.0099	.0141	.0231	.0071	.0043	.00089	-.0631
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail
Value		.0100		.0100			.0200
Range		30.00%		-30.00%			-30.00%

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	.0010	.0259	.0197	.0045	.0018	.0038
Stddev	.0002	.0000	.0110	.0000	.0002	.0000	.0015
%RSD	18.58	1.666	42.39	.0602	4.079	.4689	39.34
#1	.0009	.0010	.0337	.0197	.0046	.0019	.0028
#2	.0011	.0010	.0181	.0197	.0044	.0018	.0049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cu3273	Fe2599	Pb2203	Li6707	Mg2790	Mg2795	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0037	.0189	.0103	.0195	.0691	.0047	.0050
Stddev	.0008	.0129	.0001	.0001	.0828	.0003	.0022
%RSD	23.10	68.16	1.216	.3602	119.8	5.853	43.71
#1	.0031	.0281	.0102	.0195	.0106	.0045	.0035
#2	.0043	.0098	.0103	.0196	.1277	.0048	.0066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value							
Range							

*rerun
am 3/1/17

Sample Name: LLCCV Acquired: 3/1/2017 12:14:06 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Mn2576	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00091	.0019	.0033	.0044	.0372	.1883	.0247
Stddev	.00014	.0011	.0004	.0003	.0017	.0680	.0009
%RSD	15.405	58.58	12.54	7.719	4.626	36.11	3.628
#1	.00081	.0026	.0036	.0042	.0360	.2364	.0254
#2	.00101	.0011	.0030	.0047	.0384	.1402	.0241
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1790	F .0054	.1965	.00084	F .0144	.0200	F .0007
Stddev	.0087	.0001	.0095	.00009	.0025	.0011	.0002
%RSD	4.844	1.189	4.842	11.009	17.47	5.712	25.86
#1	.1729	.0054	.2032	.00077	.0126	.0209	.0008
#2	.1852	.0054	.1898	.00090	.0161	.0192	.0005
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value		.0040			.0100		.0020
Range		30.00%			30.00%		-30.00%

Elem	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0040	.0041	.0036	.0238	.0346
Stddev	.0001	.0003	.0000	.0044	.0002
%RSD	2.242	7.062	.8780	18.69	.4889
#1	.0041	.0039	.0036	.0269	.0345
#2	.0040	.0043	.0036	.0207	.0347
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

*rerun
am 3/1/17

Sample Name: LLCCV Acquired: 3/1/2017 12:14:06 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2085.9	37210.	2560.0
Stddev	6.6	106.	6.1
%RSD	.31599	.28381	.23939
#1	2090.6	37135.	2555.6
#2	2081.3	37285.	2564.3

Sample Name: LLCCV Acquired: 3/1/2017 12:16:48 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: RERUN

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0092	F .0139	.0198	.0086	.0041	.00103	F -.0520
Stddev	.0028	.0003	.0028	.0035	.0002	.00008	.0019
%RSD	30.96	2.398	14.16	40.05	4.570	7.8254	3.706
#1	.0112	.0137	.0218	.0062	.0042	.00109	-.0534
#2	.0072	.0142	.0178	.0111	.0039	.00097	-.0507
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value		.0100					.0200
Range		30.00%					-30.00%

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012	.0011	F .0402	.0197	.0030	.0026	.0040
Stddev	.0002	.0000	.0003	.0001	.0008	.0001	.0002
%RSD	13.64	2.621	.6581	.5175	28.04	2.710	6.233
#1	.0013	.0011	.0401	.0197	.0035	.0026	.0038
#2	.0011	.0011	.0404	.0196	.0024	.0025	.0042
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			.0200				
Range			30.00%				

Elem	Cu3273	Fe2599	Pb2203	Li6707	Mg2790	Mg2795	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030	.0193	.0080	.0182	.0995	.0046	F .0022
Stddev	.0003	.0053	.0005	.0006	.0647	.0001	.0031
%RSD	9.905	27.70	5.828	3.447	65.05	2.189	144.9
#1	.0028	.0155	.0077	.0178	.1452	.0045	-.0001
#2	.0032	.0230	.0083	.0187	.0537	.0046	.0044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Fail
Value							.0050
Range							-30.00%

Sample Name: LLCCV Acquired: 3/1/2017 12:16:48 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: RERUN

Elem	Mn2576	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00093	.0000	.0035	.0040	.0333	.1724	.0199
Stddev	.00002	.000	.0007	.0002	.0007	.0347	.0016
%RSD	1.7923	13720.	20.81	4.729	2.039	20.13	8.114
#1	.00092	-.0003	.0030	.0038	.0338	.1478	.0188
#2	.00094	.0003	.0040	.0041	.0328	.1969	.0211
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2030	.0048	.1784	.00107	.0125	.0200	F .0008
Stddev	.0144	.0010	.0022	.00023	.0014	.0001	.0004
%RSD	7.108	21.82	1.249	21.409	10.84	.3360	45.06
#1	.1928	.0040	.1768	.00091	.0115	.0200	.0005
#2	.2132	.0055	.1800	.00123	.0135	.0200	.0011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							.0020
Range							-30.00%

Elem	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0042	.0040	.0036	.0249	.0334
Stddev	.0006	.0005	.0000	.0020	.0047
%RSD	13.42	13.30	1.001	8.063	13.98
#1	.0046	.0043	.0036	.0263	.0301
#2	.0038	.0036	.0036	.0235	.0366
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: LLCCV Acquired: 3/1/2017 12:16:48 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: RERUN

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2082.5	36815.	2499.8
Stddev	4.2	31.	.1
%RSD	.20017	.08442	.00236
#1	2085.4	36793.	2499.8
#2	2079.6	36837.	2499.7

Sample Name: LLCCV,0.5 Acquired: 3/1/2017 12:19:18 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0198	F .0264	.0497	.0190	.0091	.00211	F -.0455
Stddev	.0011	.0022	.0005	.0010	.0002	.00007	.0030
%RSD	5.532	8.382	1.099	5.131	2.275	3.5248	6.683
#1	.0191	.0248	.0501	.0197	.0092	.00205	-.0477
#2	.0206	.0279	.0493	.0183	.0089	.00216	-.0434
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value		.0200					.0400
Range		30.00%					-30.00%

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021	.0019	.0369	.0422	.0087	.0043	.0077
Stddev	.0001	.0001	.0091	.0001	.0006	.0008	.0000
%RSD	4.571	5.102	24.54	.1215	7.108	18.72	.2764
#1	.0020	.0018	.0433	.0422	.0091	.0049	.0077
#2	.0021	.0020	.0305	.0423	.0082	.0037	.0078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cu3273	Fe2599	Pb2203	Li6707	Mg2790	Mg2795	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0080	.0505	.0184	.0409	.0236	.0101	.0083
Stddev	.0023	.0070	.0027	.0001	.0311	.0006	.0004
%RSD	28.70	13.77	14.70	.3459	131.6	5.614	4.703
#1	.0064	.0555	.0203	.0408	.0016	.0105	.0085
#2	.0097	.0456	.0165	.0410	.0456	.0097	.0080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value							
Range							

Sample Name: LLCCV,0.5 Acquired: 3/1/2017 12:19:18 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Mn2576	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00186	F .0011	.0073	.0081	.0803	.3885	.0463
Stddev	.00012	.0028	.0002	.0001	.0029	.0388	.0106
%RSD	6.5970	249.2	3.168	1.353	3.560	9.986	22.96
#1	.00177	.0031	.0072	.0082	.0823	.4159	.0387
#2	.00194	-.0008	.0075	.0081	.0783	.3610	.0538
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		.0020					
Range		-30.00%					

Elem	Si2516	Ag3280	Na5895	Sr4077	TI1908	Sn1899	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4102	.0090	.3898	.00200	.0228	.0390	F .0027
Stddev	.0104	.0003	.0055	.00003	.0049	.0013	.0002
%RSD	2.533	2.922	1.412	1.4599	21.64	3.445	8.887
#1	.4176	.0091	.3859	.00203	.0262	.0381	.0028
#2	.4029	.0088	.3937	.00198	.0193	.0400	.0025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							.0040
Range							-30.00%

Elem	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0085	.0077	.0075	.0485	.0772
Stddev	.0001	.0002	.0002	.0014	.0027
%RSD	.8152	2.122	2.421	2.923	3.517
#1	.0086	.0078	.0076	.0495	.0752
#2	.0085	.0076	.0074	.0475	.0791
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: LLCCV,0.5 Acquired: 3/1/2017 12:19:18 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2089.3	37536.	2584.2
Stddev	.4	26.	3.7
%RSD	.01745	.06948	.14388
#1	2089.0	37555.	2581.6
#2	2089.5	37518.	2586.9

Sample Name: K1701483-002 Acquired: 3/1/2017 12:22:00 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: D Sample Type:
Comment: EM 030117A DISS

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0120	.0042	-.0036	.0155	-.00013	-.0517	.0000	.0001
#1	.0110	.0071	-.0025	.0152	-.00026	-.0530	.0001	.0001
#2	.0129	.0013	-.0046	.0158	.00001	-.0504	.0000	.0000

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.31	.0002	.0008	.0008	-.0001	.0216	-.0020	.0020
#1	11.28	.0007	.0006	.0004	.0004	.0217	-.0033	.0018
#2	11.35	-.0002	.0010	.0013	-.0005	.0216	-.0007	.0023

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.250	.00091	.0000	-.0004	.0204	1.146	.0025	5.054
#1	3.240	.00101	.0004	-.0006	.0179	1.157	.0002	4.996
#2	3.259	.00081	-.0005	-.0001	.0229	1.134	.0048	5.113

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	4.503	.06392	-.0001	-.0005	-.0007	.0018	.0008
#1	.0011	4.503	.06353	-.0011	-.0016	-.0008	.0010	.0006
#2	.0002	4.503	.06431	.0008	.0006	-.0005	.0026	.0010

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0004	.0022	2.383
#1	.0005	.0020	2.387
#2	.0003	.0023	2.378

Sample Name: K1701483-002 Acquired: 3/1/2017 12:22:00 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: D Sample Type:
Comment: EM 030117A DISS

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2048.0	36863.	2552.6
#1	2050.3	36832.	2559.6
#2	2045.6	36895.	2545.7

Sample Name: K1701495-001 Acquired: 3/1/2017 12:24:28 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: D Sample Type:
Comment: EM 030117A DISS

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0023	-.0014	-.0005	.1024	-.00016	-.0124	-.0001	.0000
#1	-.0046	-.0026	-.0039	.1017	-.00021	-.0088	.0000	.0000
#2	.0000	-.0003	.0029	.1032	-.00012	-.0161	-.0001	.0000

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.73	.0047	.0010	-.0002	.0001	.0014	.0033	.0020
#1	20.67	.0053	.0007	-.0005	.0006	.0007	.0017	.0017
#2	20.79	.0041	.0013	.0001	-.0004	.0021	.0048	.0022

Elem	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.925	8.622	.00016	.0007	.0011	.1276	2.059	.0096
#1	7.933	8.595	.00019	.0010	.0009	.1269	2.066	.0082
#2	7.917	8.649	.00014	.0003	.0012	.1282	2.052	.0110

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.21	.0013	22.61	.14878	.0018	-.0001	-.0016	.0083
#1	23.19	.0016	22.59	.14892	.0020	.0004	-.0018	.0087
#2	23.23	.0009	22.64	.14864	.0017	-.0007	-.0014	.0078

Elem	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm
Avg	.0010	.0007	.0034	6.077
#1	.0007	.0007	.0012	6.073
#2	.0013	.0008	.0057	6.081

Sample Name: K1701495-001 Acquired: 3/1/2017 12:24:28 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: D Sample Type:
Comment: EM 030117A DISS

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2031.1	36077.	2547.7
#1	2026.8	35945.	2537.8
#2	2035.4	36209.	2557.6

Sample Name: K1701498-011 Acquired: 3/1/2017 12:26:55 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.218	2.722	.0358	-.0023	.2817	-.00021	.1093	.0019
#1	2.260	2.744	.0319	.0005	.2826	-.00026	.1051	.0020
#2	2.176	2.700	.0396	-.0051	.2808	-.00017	.1135	.0017

Elem	Cd2265	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018	179.9	.0290	.0059	.3736	.3774	6.030	.0226
#1	.0019	178.8	.0282	.0057	.3714	.3771	6.019	.0235
#2	.0016	181.1	.0298	.0062	.3759	.3777	6.041	.0216

Elem	Li6707	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0145	43.12	.12417	.0174	.0389	5.461	12.91	.0035
#1	.0161	43.39	.12449	.0168	.0384	5.381	12.99	-.0004
#2	.0129	42.86	.12385	.0181	.0393	5.542	12.84	.0074

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.352	.0026	231.7	.91806	.0030	.0237	.1805	.0093
#1	9.375	.0029	230.3	.91809	.0036	.0234	.1816	.0085
#2	9.329	.0023	233.2	.91803	.0023	.0240	.1793	.0100

Elem	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm
Avg	.4524	.4024	.0059	8.800
#1	.4641	.3920	.0078	8.433
#2	.4406	.4127	.0041	9.167

Sample Name: K1701498-011 Acquired: 3/1/2017 12:26:55 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1818.9	33319.	2517.2
#1	1782.8	33311.	2535.1
#2	1855.0	33327.	2499.3

Sample Name: K1701547-001 Acquired: 3/1/2017 12:29:21 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0223	-.0033	-.0052	.0057	-.00028	.1187	.0001	.0003
#1	.0237	-.0005	-.0004	.0057	-.00035	.1151	.0002	.0002
#2	.0209	-.0062	-.0101	.0057	-.00020	.1224	.0001	.0005

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.12	.0002	.0008	.0058	.0061	.0759	.0004	.0031
#1	11.09	.0006	.0010	.0064	.0058	.0824	.0010	.0032
#2	11.15	-.0001	.0005	.0051	.0065	.0694	-.0003	.0030

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.570	.02330	.0001	.0013	5.171	10.70	.0066	8.181
#1	2.569	.02319	.0003	.0012	5.217	10.72	.0042	8.147
#2	2.571	.02341	-.0002	.0013	5.125	10.68	.0090	8.214

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012	37.00	.05288	.0014	.0006	-.0009	.0005	.0196
#1	.0014	37.05	.05303	.0031	.0008	-.0014	.0010	.0198
#2	.0010	36.96	.05274	-.0003	.0004	-.0005	.0001	.0194

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0191	.0032	5.879
#1	.0189	.0023	5.881
#2	.0193	.0041	5.878

Sample Name: K1701547-001 Acquired: 3/1/2017 12:29:21 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1997.4	35458.	2508.0
#1	1990.4	35383.	2509.4
#2	2004.3	35532.	2506.6

Sample Name: KQ1701842-01 Acquired: 3/1/2017 12:31:49 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A K1701689-MB

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0031	.0004	-.0072	.0004	-.00004	F -.0576	.0000
#1	-.0021	.0003	-.0086	.0004	-.00006	-.0593	.0001
#2	-.0040	.0005	-.0058	.0005	-.00001	-.0558	.0000

Elem	Cd2265	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	F .0387	-.0001	.0012	-.0002	.0002	.0035
#1	.0002	.0757	.0000	.0011	-.0008	-.0006	-.0059
#2	.0001	.0018	-.0002	.0012	.0004	.0011	.0128

Elem	Pb2203	Li6707	Mg2795	Mn2576	Mo2020	Ni2216	P_1782
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0004	F .0085	.00001	-.0009	.0001	F .2554
#1	-.0023	-.0001	.0168	-.00006	-.0007	.0002	.2569
#2	.0026	-.0007	.0003	.00009	-.0010	.0001	.2538

Elem	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0122	.0077	.0119	.0014	.0718	.00006	.0026
#1	.0185	.0074	.0125	.0017	.1249	.00024	.0028
#2	.0060	.0080	.0114	.0011	.0187	-.00012	.0025

Elem	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0026	-.0012	.0000	-.0002	-.0002	.0044	-.0065
#1	-.0047	-.0014	-.0003	-.0001	.0000	.0023	-.0052
#2	-.0006	-.0010	.0002	-.0003	-.0003	.0065	-.0078

NR-see rerun
am 3/1/17

Sample Name: KQ1701842-01 Acquired: 3/1/2017 12:31:49 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A K1701689-MB

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2092.0	37344.	2554.4
#1	2096.2	36922.	2558.2
#2	2087.9	37767.	2550.5

NR- see rerun
AM 3/1/17

Sample Name: KQ1701842-02 Acquired: 3/1/2017 12:34:12 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A K1701689-LCSW

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.703	1.959	2.444	4.991	.12384	.4532	1.234	1.185
#1	5.732	1.956	2.438	4.978	.12409	.4518	1.234	1.183
#2	5.674	1.962	2.449	5.005	.12360	.4545	1.233	1.186

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.04	.4846	1.245	.6167	.6299	2.438	2.370	.0009
#1	11.95	.4834	1.247	.6169	.6319	2.437	2.370	-.0006
#2	12.13	.4858	1.243	.6165	.6278	2.438	2.369	.0025

Elem	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.19	1.1367	.9518	1.200	.3014	12.24	2.360	.0093
#1	12.17	1.1335	.9510	1.201	.3018	12.25	2.351	.0005
#2	12.20	1.1399	.9525	1.200	.3010	12.24	2.368	.0181

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5992	11.98	-.00001	2.442	-.0004	-.0014	1.237	1.173
#1	.6012	11.99	.00004	2.443	.0022	-.0015	1.242	1.173
#2	.5973	11.97	-.00006	2.442	-.0029	-.0014	1.232	1.172

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	1.145	.0044	-.0124
#1	1.140	.0034	-.0198
#2	1.150	.0054	-.0051

Sample Name: KQ1701842-02 Acquired: 3/1/2017 12:34:12 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A K1701689-LCSW

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2043.6	36572.	2551.2
#1	2042.2	36604.	2558.3
#2	2045.0	36540.	2544.0

Sample Name: K1701689-001 Acquired: 3/1/2017 12:36:26 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: R Sample Type:
Comment: EM 030117A R

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0130	-.0015	.0008	.0234	-.00009	.0564	.0001	.0002
#1	.0085	-.0026	-.0040	.0237	-.00013	.0574	.0002	.0002
#2	.0176	-.0004	.0057	.0230	-.00005	.0554	-.0001	.0003

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	59.52	.0018	.0005	.0003	.0016	.1693	-.0005	.0023
#1	59.39	.0005	.0001	-.0002	.0008	.1668	-.0004	.0014
#2	59.64	.0031	.0009	.0007	.0024	.1719	-.0007	.0031

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.953	.03114	.0348	.0001	.2777	28.31	.0192	2.863
#1	4.940	.03020	.0352	.0006	.2826	28.38	.0169	2.835
#2	4.965	.03208	.0345	-.0003	.2727	28.24	.0215	2.890

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013	34.41	1.9752	.0029	.0006	-.0012	.0017	.0004
#1	.0013	34.50	1.9744	.0044	.0003	-.0014	.0005	.0006
#2	.0014	34.31	1.9760	.0014	.0010	-.0010	.0029	.0003

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0001	.0006	45.58
#1	.0001	.0019	45.47
#2	.0002	-.0008	45.68

Sample Name: K1701689-001 Acquired: 3/1/2017 12:36:26 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: R Sample Type:
Comment: EM 030117A R

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2001.5	35272.	2493.9
#1	2002.6	35101.	2499.9
#2	2000.3	35444.	2488.0

Sample Name: K1701689-001D Acquired: 3/1/2017 12:38:52 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: R Sample Type:
Comment: EM 030117A R

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0130	-.0003	-.0043	.0229	-.00028	.0558	.0002	.0001
#1	.0148	.0000	-.0041	.0236	-.00022	.0573	.0001	.0003
#2	.0111	-.0006	-.0046	.0222	-.00034	.0543	.0003	.0000

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	59.04	.0012	.0003	-.0003	.0004	.1558	.0003	.0010
#1	59.38	.0008	.0002	-.0005	-.0005	.1463	.0002	.0013
#2	58.70	.0015	.0005	-.0002	.0012	.1653	.0004	.0006

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.916	.03062	.0338	-.0003	.2815	28.53	.0077	2.886
#1	4.944	.03062	.0337	-.0002	.2790	28.41	.0091	2.872
#2	4.887	.03062	.0338	-.0004	.2841	28.65	.0063	2.900

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012	34.82	1.9677	.0058	-.0013	-.0014	.0011	.0006
#1	.0011	34.65	1.9735	.0047	-.0005	-.0013	.0009	.0009
#2	.0013	34.99	1.9618	.0070	-.0020	-.0015	.0013	.0003

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0001	.0018	45.50
#1	-.0002	.0045	45.58
#2	.0004	-.0009	45.43

Sample Name: K1701689-001D Acquired: 3/1/2017 12:38:52 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: R Sample Type:
Comment: EM 030117A R

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1986.0	35371.	2531.3
#1	1986.3	35483.	2511.1
#2	1985.6	35259.	2551.5

Sample Name: K1701689-001S Acquired: 3/1/2017 12:41:17 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: R Sample Type:
Comment: EM 030117A R

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.872	2.245	.4525	.9819	1.019	.04829	.5257	.0495
#1	1.873	2.260	.4514	.9822	1.024	.04871	.5310	.0493
#2	1.872	2.231	.4536	.9816	1.015	.04787	.5205	.0497

Elem	Cd2265	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0471	66.81	.1951	.4938	.2448	.2414	1.143	.4699
#1	.0467	66.84	.1943	.4938	.2452	.2431	1.144	.4671
#2	.0475	66.79	.1958	.4938	.2444	.2398	1.141	.4726

Elem	Li6707	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023	14.97	.48726	1.014	.4757	.2954	38.17	.9354
#1	.0017	15.03	.48728	1.013	.4762	.2945	38.22	.9355
#2	.0030	14.92	.48724	1.015	.4752	.2962	38.12	.9353

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.832	.0083	43.62	1.9083	.1974	.0000	.0042	.5033
#1	2.839	.0085	43.78	1.9122	.1944	.0006	.0041	.5042
#2	2.825	.0080	43.46	1.9045	.2004	-.0006	.0042	.5024

Elem	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm
Avg	.4655	.4458	.0016	43.54
#1	.4650	.4461	.0009	43.62
#2	.4659	.4454	.0023	43.47

Sample Name: K1701689-001S Acquired: 3/1/2017 12:41:17 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: R Sample Type:
Comment: EM 030117A R

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1974.0**	**35042.**	**2512.9**
#1	1977.6	35037.	2512.6
#2	1970.5	35046.	2513.2

Sample Name: K1701689-004 Acquired: 3/1/2017 12:43:35 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: R Sample Type:
Comment: EM 030117A R

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0127	-.0026	.0004	.0126	-.00016	-.0101	.0000	.0002
#1	.0109	.0019	.0001	.0127	-.00020	-.0106	.0000	.0002
#2	.0145	-.0070	.0007	.0125	-.00013	-.0095	.0001	.0003

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	30.27	.0002	.0003	.0001	.0005	.0690	-.0002	.0011
#1	30.19	.0002	.0003	.0002	-.0004	.0683	.0005	-.0004
#2	30.36	.0003	.0003	.0001	.0014	.0697	-.0008	.0026

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.587	.01054	.0147	-.0004	.2737	9.752	.0049	2.113
#1	2.587	.01051	.0146	-.0002	.2721	9.730	.0004	2.068
#2	2.588	.01057	.0148	-.0007	.2754	9.773	.0094	2.157

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	11.08	.71575	-.0005	-.0005	-.0011	.0001	.0002
#1	.0015	11.10	.71566	-.0010	-.0013	-.0012	.0001	.0002
#2	.0003	11.06	.71585	.0000	.0002	-.0010	.0001	.0003

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0001	.0038	15.75
#1	.0001	.0011	15.81
#2	.0002	.0066	15.69

Sample Name: K1701689-004 Acquired: 3/1/2017 12:43:35 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: R Sample Type:
Comment: EM 030117A R

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2030.0	36026.	2528.2
#1	2030.5	36047.	2530.4
#2	2029.4	36005.	2526.0

Sample Name: CCVB Acquired: 3/1/2017 12:46:01 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.483	F 11.38	-.0008	.9959	10.11	-.00003	-.0135	.0000
Stddev	.014	.04	.0029	.0039	.14	.00013	.0048	.0000
%RSD	.1827	.3899	348.4	.3886	1.421	368.78	35.32	116.4
#1	7.473	11.41	-.0029	.9986	10.01	.00006	-.0168	.0000
#2	7.493	11.35	.0012	.9932	10.21	-.00013	-.0101	.0001
Check ?	None	Chk Fail	None	Chk Pass	Chk Pass	None	None	None
Value		10.00						
Range		10.44%						

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	9.768	9.430	.0000	.0007	-.0007	.0003	9.976
Stddev	.0000	.045	.094	.000	.0001	.0010	.0004	.042
%RSD	13.95	.4645	.9923	1493.	9.146	147.0	153.2	.4173
#1	.0002	9.736	9.364	-.0002	.0007	.0000	.0005	10.00
#2	.0002	9.800	9.496	.0002	.0007	-.0014	.0000	9.946
Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018	1.004	10.05	9.236	10.07	.94020	1.002	.0005
Stddev	.0024	.004	.01	.037	.01	.00209	.002	.0003
%RSD	130.6	.3704	.1480	.3983	.0757	.22222	.1692	53.84
#1	.0001	1.007	10.04	9.210	10.07	.93873	1.003	.0003
#2	.0035	1.002	10.06	9.262	10.08	.94168	1.000	.0007
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass	None
Value								
Range								

Sample Name: CCVB Acquired: 3/1/2017 12:46:01 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	10.40	10.07	.0079	10.19	.0016	9.704	.97452
Stddev	.000	.04	.02	.0001	.07	.0003	.016	.00512
%RSD	927.5	.3806	.1874	1.771	.6738	17.20	.1649	.52522
#1	.0001	10.37	10.06	.0078	10.24	.0018	9.715	.97090
#2	-.0002	10.43	10.08	.0080	10.15	.0014	9.692	.97813
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016	-.0010	-.0013	.0010	-.0001	.0002	1.064	.9924
Stddev	.0014	.0002	.0000	.0008	.0002	.0001	.000	.0153
%RSD	88.77	22.23	1.215	72.86	115.7	52.88	.0336	1.539
#1	.0006	-.0008	-.0013	.0016	-.0002	.0002	1.064	1.003
#2	.0026	-.0011	-.0013	.0005	.0000	.0003	1.064	.9816
Check ?	None	None	None	None	None	None	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2064.3	36607.	2548.7
Stddev	3.8	156.	10.0
%RSD	.18428	.42550	.39259
#1	2067.0	36497.	2555.8
#2	2061.6	36717.	2541.7

Sample Name: CCVA Acquired: 3/1/2017 12:48:31 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2627	.3011	.2548	.2582	.2554	.25535	F .1807	.2597
Stddev	.0018	.0007	.0041	.0006	.0012	.00080	.0004	.0002
%RSD	.6710	.2474	1.615	.2330	.4611	.31495	.2481	.0705
#1	.2615	.3017	.2577	.2578	.2563	.25592	.1804	.2596
#2	.2640	.3006	.2519	.2586	.2546	.25478	.1810	.2598
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Fail	Chk Pass
Value							.2500	
Range							-10.44%	

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2484	.4859	.4895	.2503	.2585	.2586	.2627	.2528
Stddev	.0012	.0131	.0010	.0004	.0000	.0002	.0024	.0021
%RSD	.4935	2.701	.1956	.1618	.0062	.0681	.9089	.8451
#1	.2475	.4952	.4901	.2506	.2585	.2584	.2610	.2543
#2	.2493	.4766	.4888	.2500	.2585	.2587	.2644	.2513
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2509	.0008	.2320	.2429	.2534	.24105	.2464	.2445
Stddev	.0014	.0010	.0606	.0013	.0037	.00012	.0000	.0011
%RSD	.5759	116.1	26.11	.5244	1.466	.04970	.0051	.4481
#1	.2519	.0015	.2749	.2438	.2507	.24113	.2464	.2453
#2	.2498	.0002	.1892	.2420	.2560	.24096	.2464	.2437
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass	None	Chk Pass
Value								
Range								

Sample Name: CCVA Acquired: 3/1/2017 12:48:31 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2525	.0004	2.426	.2590	.1243	.2567	.2567	-.00025
Stddev	.0007	.0007	.062	.0019	.0194	.0022	.0004	.00020
%RSD	.2696	192.6	2.546	.7345	15.61	.8538	.1633	79.833
#1	.2529	.0009	2.382	.2577	.1106	.2552	.2570	-.00011
#2	.2520	-.0001	2.469	.2603	.1380	.2583	.2564	-.00039
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass	None	None
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2646	.2526	.2534	.2489	.2463	.2427	.0021	-.0050
Stddev	.0056	.0044	.0007	.0021	.0012	.0004	.0023	.0064
%RSD	2.127	1.761	.2739	.8320	.4854	.1705	107.0	127.6
#1	.2686	.2494	.2539	.2504	.2455	.2424	.0005	-.0096
#2	.2606	.2557	.2529	.2475	.2471	.2430	.0037	-.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2086.9	37395.	2542.6
Stddev	3.8	71.	14.6
%RSD	.18251	.19065	.57456
#1	2089.6	37345.	2532.3
#2	2084.2	37445.	2553.0

Sample Name: CCB Acquired: 3/1/2017 12:50:48 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	.0034	.0035	-.0019	.0006	-.00005	F -.0823
Stddev	.0003	.0015	.0010	.0066	.0000	.00006	.0011
%RSD	43.23	43.54	28.41	357.5	4.393	123.72	1.309
#1	.0005	.0045	.0028	-.0066	.0006	-.00001	-.0831
#2	.0009	.0024	.0042	.0028	.0005	-.00010	-.0816
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.0050
Low Limit							-.0050

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0002	.0063	.0005	-.0005	.0006	-.0004
Stddev	.0002	.0001	.0178	.0003	.0007	.0006	.0002
%RSD	358.4	67.42	283.8	59.36	145.8	93.97	53.21
#1	.0002	.0001	.0189	.0003	-.0010	.0011	-.0006
#2	-.0001	.0003	-.0063	.0007	.0000	.0002	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cu3273	Fe2599	Pb2203	Li6707	Mg2790	Mg2795	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0009	-.0002	-.0008	.0370	.0001	-.0018
Stddev	.0018	.0026	.0001	.0017	.0358	.0003	.0006
%RSD	3216.	286.7	41.10	211.5	96.80	211.4	33.31
#1	-.0013	-.0009	-.0001	.0004	.0622	-.0001	-.0022
#2	.0012	.0027	-.0002	-.0020	.0117	.0003	-.0013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 3/1/2017 12:50:48 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Mn2576	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00000	.0006	.0010	-.0004	-.0034	-.0030	.0047
Stddev	.00004	.0010	.0002	.0007	.0047	.0352	.0033
%RSD	1377.1	162.9	24.56	170.8	140.3	1157.	70.43
#1	.00003	.0013	.0008	.0001	.0000	-.0279	.0070
#2	-.00002	-.0001	.0011	-.0009	-.0067	.0218	.0023
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0077	.0015	.0168	.00006	-.0007	.0011	-.0011
Stddev	.0006	.0004	.0060	.00012	.0017	.0014	.0000
%RSD	7.954	25.31	35.43	194.45	256.2	129.6	1.556
#1	-.0073	.0012	.0210	.00014	-.0019	.0021	-.0011
#2	-.0081	.0017	.0126	-.00002	.0005	.0001	-.0011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0001	-.0001	.0047	-.0102
Stddev	.0004	.0000	.0001	.0015	.0095
%RSD	365.9	12.74	43.40	32.07	93.42
#1	-.0002	-.0001	-.0001	.0036	-.0170
#2	.0004	-.0001	-.0002	.0058	-.0035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB Acquired: 3/1/2017 12:50:48 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2079.5	37098.	2547.0
Stddev	2.6	.	13.0
%RSD	.12430	.00096	.51198
#1	2081.3	37098.	2537.8
#2	2077.6	37098.	2556.2

Sample Name: KQ1701842-01 Acquired: 3/1/2017 12:53:11 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A K1701689-MB RERUN

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.0252	.0017	-.0034	F .0923	-.00005	F -.0489	-.0001
#1	-.0119	-.0011	-.0011	.0022	-.00009	-.1042	.0000
#2	-.0384	.0044	-.0056	.1825	.00000	.0065	-.0001

Elem	Cd2265	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0006	.0011	.0001	.0004	.0017	F .4492
#1	.0001	-.0013	.0024	-.0001	.0010	.0000	.0354
#2	.0000	.0026	-.0003	.0002	-.0002	.0033	.8629

Elem	Pb2203	Li6707	Mg2795	Mn2576	Mo2020	Ni2216	P_1782
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0014	.0009	.0040	-.00024	.0001	-.0002	F .0481
#1	-.0023	.0007	.0000	-.00042	-.0001	-.0002	.0504
#2	-.0006	.0010	.0080	-.00006	.0003	-.0002	.0458

Elem	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0046	.0084	-.0028	.0003	-.0121	F -.02623	.0010
#1	.0443	.0050	-.0133	.0003	-.0070	-.00123	.0013
#2	-.0536	.0119	.0077	.0002	-.0171	-.05123	.0007

Elem	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0008	F .0020	.0003	.0001	-.0004	.0012	-.0021
#1	-.0009	.0015	.0007	.0003	-.0003	.0038	-.0144
#2	-.0008	.0025	-.0001	-.0001	-.0004	-.0013	.0102

NR- bad uptake
am 3/1/17

Sample Name: KQ1701842-01 Acquired: 3/1/2017 12:53:11 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A K1701689-MB RERUN

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	W 2712.6	W *****	W 566.00
#1	2119.6	-----	1101.6
#2	3305.6	113380.	30.387

NR-bad uptake
am 3/1/17

Sample Name: K1701689-005 Acquired: 3/1/2017 12:55:35 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: R Sample Type:
Comment: EM 030117A R

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.258	.0018	-.0026	.0351	-.00010	.0430	.0000	.0002
#1	1.253	.0038	-.0079	.0353	.00006	.0471	-.0002	.0003
#2	1.263	-.0002	.0026	.0349	-.00026	.0389	.0002	.0001

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	61.52	.0018	.0019	.0079	.0085	1.886	.0005	.0052
#1	61.58	.0020	.0027	.0072	.0092	1.891	-.0023	.0041
#2	61.46	.0017	.0011	.0086	.0079	1.882	.0032	.0063

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.509	.12454	.0322	.0008	.2644	7.339	.0045	5.413
#1	5.512	.12481	.0324	.0013	.2601	7.292	.0062	5.388
#2	5.506	.12427	.0319	.0003	.2687	7.385	.0027	5.438

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	33.20	1.9820	.0003	-.0007	.0534	.0047	.0075
#1	.0010	33.03	1.9833	.0003	.0000	.0533	.0048	.0075
#2	.0005	33.38	1.9808	.0003	-.0015	.0536	.0047	.0076

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0071	.0062	44.75
#1	.0069	.0082	44.68
#2	.0073	.0042	44.81

Sample Name: K1701689-005 Acquired: 3/1/2017 12:55:35 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: R Sample Type:
Comment: EM 030117A R

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1998.4**	**35747.**	**2531.8**
#1	2001.5	35699.	2514.8
#2	1995.3	35795.	2548.8

Sample Name: K1701689-006 Acquired: 3/1/2017 12:57:59 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: R Sample Type:
Comment: EM 030117A R

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.367	.0001	-.0019	.0370	.00007	.0286	-.0002	.0000
#1	1.373	-.0025	.0007	.0368	.00008	.0270	-.0001	-.0001
#2	1.360	.0026	-.0044	.0373	.00006	.0302	-.0003	.0002

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	63.16	.0011	.0016	.0088	.0094	2.152	-.0009	.0033
#1	63.04	.0017	.0014	.0089	.0095	2.156	.0016	.0033
#2	63.28	.0005	.0019	.0086	.0092	2.148	-.0034	.0033

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.713	.13389	.0326	.0007	.3513	7.565	.0066	5.778
#1	5.704	.13367	.0330	.0005	.3567	7.536	.0076	5.758
#2	5.723	.13410	.0323	.0009	.3459	7.594	.0055	5.798

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015	34.28	2.0396	.0003	.0006	.0564	.0058	.0084
#1	.0012	34.35	2.0352	.0032	-.0002	.0559	.0066	.0086
#2	.0018	34.21	2.0440	-.0026	.0015	.0569	.0049	.0083

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0081	-.0001	45.80
#1	.0081	-.0034	45.76
#2	.0082	.0032	45.84

Sample Name: K1701689-006 Acquired: 3/1/2017 12:57:59 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: R Sample Type:
Comment: EM 030117A R

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1998.6	35501.	2539.4
#1	1994.9	35415.	2548.6
#2	2002.4	35587.	2530.1

Sample Name: K1701689-001 Acquired: 3/1/2017 13:00:24 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: D Sample Type:
Comment: EM 030117A DISS

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0016	-.0019	-.0035	.0142	.00003	-.0205	.0000	.0003
#1	.0008	-.0028	-.0034	.0143	.00010	-.0207	.0000	.0001
#2	-.0040	-.0011	-.0035	.0141	-.00004	-.0203	.0000	.0004

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	79.51	.0001	.0002	-.0005	-.0003	.0261	-.0028	.0022
#1	79.54	-.0005	.0006	-.0001	.0000	.0305	-.0022	.0018
#2	79.48	.0007	-.0002	-.0009	-.0006	.0218	-.0034	.0025

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.445	.00937	.0072	.0005	.3247	15.19	.0044	1.495
#1	4.450	.00915	.0076	.0000	.3294	15.20	.0011	1.513
#2	4.441	.00959	.0068	.0010	.3200	15.18	.0077	1.476

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	22.34	1.1281	.0037	-.0006	-.0012	-.0003	.0014
#1	-.0003	22.34	1.1287	.0024	-.0004	-.0014	.0007	.0015
#2	.0016	22.34	1.1275	.0051	-.0007	-.0011	-.0014	.0013

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0011	.0008	66.32
#1	.0009	.0024	66.45
#2	.0012	-.0009	66.19

Sample Name: K1701689-001 Acquired: 3/1/2017 13:00:24 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: D Sample Type:
Comment: EM 030117A DISS

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1994.0	35400.	2543.6
#1	1996.2	35370.	2541.1
#2	1991.8	35431.	2546.1

Sample Name: K1701689-005 Acquired: 3/1/2017 13:02:50 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: D Sample Type:
Comment: EM 030117A DISS

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0037	.0034	-.0004	.0291	-.00013	-.0020	.0001	.0004
#1	.0057	.0015	.0018	.0295	-.00031	-.0031	.0000	.0004
#2	.0016	.0053	-.0026	.0288	.00005	-.0010	.0002	.0004

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	144.1	.0003	.0005	-.0007	.0002	-.0041	-.0011	.0048
#1	143.6	.0006	.0005	-.0006	.0000	-.0064	.0008	.0043
#2	144.6	.0000	.0006	-.0008	.0004	-.0017	-.0029	.0052

Elem	Mg2795	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.674	8.348	.13482	.0139	.0007	.2911	26.78	.0015
#1	7.653	8.346	.13463	.0144	.0009	.2826	26.82	.0055
#2	7.695	8.351	.13502	.0135	.0005	.2996	26.74	-.0024

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.180	.0007	27.26	2.1853	-.0019	-.0001	-.0017	.0002
#1	2.151	.0003	27.26	2.1854	-.0030	-.0007	-.0017	-.0002
#2	2.209	.0010	27.26	2.1853	-.0009	.0006	-.0017	.0005

Elem	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm
Avg	.0089	.0082	.0004	125.7
#1	.0090	.0080	.0017	125.6
#2	.0089	.0083	-.0009	125.7

Sample Name: K1701689-005 Acquired: 3/1/2017 13:02:50 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: D Sample Type:
Comment: EM 030117A DISS

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1956.3	34564.	2504.5
#1	1956.8	34514.	2506.8
#2	1955.9	34614.	2502.2

Sample Name: K1701730-001 Acquired: 3/1/2017 13:05:11 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: R Sample Type:
Comment: EM 030117A R

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	.0004	-.0024	.0041	-.00008	-.0883	.0000	.0000
#1	-.0038	.0015	-.0029	.0041	-.00005	-.0900	-.0001	.0000
#2	.0027	-.0007	-.0020	.0041	-.00011	-.0866	.0000	.0001

Elem	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.063	.0008	.0002	-.0001	-.0002	.0052	-.0005	.0004
#1	6.044	.0009	.0000	.0001	-.0002	-.0046	.0001	-.0004
#2	6.083	.0008	.0005	-.0003	-.0003	.0150	-.0010	.0011

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5569	.00078	-.0002	.0001	.2774	.3845	.0040	1.201
#1	.5593	.00075	-.0005	-.0002	.2708	.3932	.0070	1.215
#2	.5546	.00081	.0002	.0003	.2840	.3759	.0010	1.186

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018	.7152	.04404	.0008	-.0005	-.0011	.0007	-.0002
#1	.0023	.7256	.04440	.0019	-.0002	-.0012	.0004	-.0002
#2	.0013	.7047	.04369	-.0004	-.0007	-.0010	.0009	-.0002

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0000	.0004	.5880
#1	-.0001	.0009	.6036
#2	.0000	.0000	.5724

Sample Name: K1701730-001 Acquired: 3/1/2017 13:05:11 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: R Sample Type:
Comment: EM 030117A R

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	**2065.0**	**36414.**	**2494.6**
#1	2061.7	36368.	2493.9
#2	2068.4	36460.	2495.3

Sample Name: K1701730-001D Acquired: 3/1/2017 13:07:39 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: R Sample Type:
Comment: EM 030117A R

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042	-.0006	-.0013	.0044	-.00004	-.1058	.0001	.0001
#1	.0063	-.0003	-.0013	.0045	.00011	-.1063	.0001	.0001
#2	.0022	-.0008	-.0014	.0043	-.00020	-.1053	.0000	.0000

Elem	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.745	-.0008	.0003	.0007	-.0013	.0027	-.0016	.0013
#1	5.767	-.0012	.0005	.0010	-.0026	.0041	-.0012	.0006
#2	5.722	-.0004	.0001	.0004	-.0001	.0014	-.0020	.0020

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5290	.00081	-.0002	.0000	.1840	.3207	.0000	1.129
#1	.5283	.00078	-.0005	.0005	.1903	.3375	.0057	1.122
#2	.5298	.00084	.0001	-.0005	.1777	.3039	-.0058	1.135

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	.6755	.04192	-.0004	-.0013	-.0011	.0009	.0001
#1	.0011	.6664	.04174	-.0049	-.0010	-.0013	.0007	.0001
#2	.0003	.6846	.04210	.0041	-.0017	-.0009	.0011	.0001

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	-.0002	.0027	.5455
#1	-.0003	.0019	.5575
#2	-.0001	.0034	.5335

Sample Name: K1701730-001D Acquired: 3/1/2017 13:07:39 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: R Sample Type:
Comment: EM 030117A R

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2064.9	36678.	2483.5
#1	2066.2	36695.	2458.9
#2	2063.6	36662.	2508.0

Sample Name: K1701730-001S Acquired: 3/1/2017 13:10:07 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: R Sample Type:
Comment: EM 030117A R

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.922	2.206	.4485	.9599	.9907	.04892	.3746	.0494
#1	1.926	2.211	.4487	.9615	.9898	.04882	.3721	.0493
#2	1.917	2.201	.4483	.9584	.9916	.04901	.3772	.0495

Elem	Cd2265	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0479	15.85	.1981	.4946	.2444	.2426	.9929	.4774
#1	.0479	15.82	.1981	.4959	.2448	.2412	1.001	.4740
#2	.0478	15.89	.1981	.4933	.2441	.2439	.9844	.4807

Elem	Li6707	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	10.18	.46921	.9776	.4818	.2341	9.947	.9263
#1	.0000	10.12	.46944	.9767	.4830	.2317	9.899	.9214
#2	.0010	10.24	.46899	.9786	.4806	.2365	9.995	.9313

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.234	.0092	10.05	.04447	.1939	-.0005	.0049	.5015
#1	1.202	.0083	9.993	.04464	.1944	.0008	.0049	.5025
#2	1.266	.0101	10.10	.04430	.1935	-.0019	.0048	.5005

Elem	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm
Avg	.4759	.4586	.0040	.5665
#1	.4759	.4566	.0062	.5582
#2	.4760	.4606	.0018	.5748

Sample Name: K1701730-001S Acquired: 3/1/2017 13:10:07 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: R Sample Type:
Comment: EM 030117A R

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2029.1	35733.	2480.3
#1	2024.8	35760.	2469.2
#2	2033.5	35706.	2491.3

Sample Name: K1701730-002 Acquired: 3/1/2017 13:12:26 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: R Sample Type:
Comment: EM 030117A R

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0103	-.0005	-.0040	.0063	-.00012	-.0873	.0001	.0001
#1	.0086	-.0009	-.0048	.0066	-.00029	-.0858	.0002	.0002
#2	.0120	-.0001	-.0031	.0060	.00005	-.0887	-.0001	.0001

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.15	.0000	.0007	-.0002	.0004	.0229	-.0012	-.0007
#1	19.26	-.0005	.0004	-.0007	.0011	.0388	-.0002	-.0013
#2	19.04	.0006	.0011	.0003	-.0004	.0070	-.0022	-.0002

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.221	.00219	.0035	-.0001	.2710	.5382	.0107	1.980
#1	1.228	.00227	.0035	-.0005	.2766	.5393	.0134	1.964
#2	1.214	.00210	.0035	.0002	.2655	.5372	.0080	1.997

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	1.669	.13924	.0039	-.0008	-.0009	.0001	.0007
#1	-.0001	1.665	.13981	.0054	.0001	-.0008	.0002	.0005
#2	.0011	1.674	.13866	.0023	-.0016	-.0010	.0001	.0009

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0004	.0052	4.109
#1	.0006	.0043	4.112
#2	.0001	.0061	4.105

Sample Name: K1701730-002 Acquired: 3/1/2017 13:12:26 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: R Sample Type:
Comment: EM 030117A R

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2048.9	36180.	2504.4
#1	2050.2	36108.	2484.6
#2	2047.7	36252.	2524.3

Sample Name: K1701730-003 Acquired: 3/1/2017 13:14:53 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: R Sample Type:
Comment: EM 030117A R

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0082	.0029	-.0017	.0058	-.00017	-.0928	.0000	.0000
#1	.0087	.0031	-.0021	.0057	-.00008	-.0955	-.0001	.0001
#2	.0076	.0027	-.0013	.0060	-.00025	-.0900	.0001	-.0001

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.92	.0012	.0004	.0004	.0003	.0230	.0004	.0006
#1	15.05	.0015	-.0001	-.0001	.0013	.0252	.0011	.0000
#2	14.79	.0009	.0009	.0009	-.0007	.0208	-.0002	.0012

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8919	.00204	.0008	-.0003	.3057	.6487	.0035	1.825
#1	.8976	.00211	.0006	-.0002	.3078	.6394	.0034	1.838
#2	.8862	.00196	.0011	-.0004	.3037	.6579	.0036	1.812

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016	1.546	.12817	-.0018	-.0007	-.0013	.0003	.0003
#1	.0016	1.551	.12883	-.0032	-.0012	-.0015	.0006	.0003
#2	.0017	1.541	.12750	-.0004	-.0002	-.0011	.0000	.0003

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0000	.0053	2.953
#1	.0002	.0025	2.959
#2	-.0002	.0081	2.947

Sample Name: K1701730-003 Acquired: 3/1/2017 13:14:53 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: R Sample Type:
Comment: EM 030117A R

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2055.1	36557.	2543.1
#1	2051.8	36399.	2520.6
#2	2058.4	36716.	2565.6

Sample Name: CCVB Acquired: 3/1/2017 13:17:20 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.473	F 11.11	.0022	1.001	10.11	-.00002	-.0589	.0001
Stddev	.044	.05	.0013	.004	.04	.00012	.0030	.0000
%RSD	.5842	.4412	59.52	.4421	.3815	606.62	5.103	19.63
#1	7.504	11.14	.0031	1.004	10.08	-.00011	-.0568	.0001
#2	7.442	11.07	.0013	.9982	10.14	.00007	-.0611	.0001
Check ?	None	Chk Fail	None	Chk Pass	Chk Pass	None	None	None
Value		10.00						
Range		10.44%						

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	9.764	9.704	-.0001	.0003	-.0005	-.0010	9.968
Stddev	.0002	.012	.081	.0002	.0003	.0011	.0003	.060
%RSD	111.6	.1213	.8298	252.2	97.64	218.8	33.01	.6062
#1	.0004	9.755	9.647	-.0002	.0005	-.0013	-.0012	9.926
#2	.0000	9.772	9.761	.0001	.0001	.0003	-.0008	10.01
Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.9938	10.21	9.299	9.996	.96027	1.003	.0001
Stddev	.0007	.0022	.04	.046	.020	.00241	.004	.0001
%RSD	530.5	.2195	.3887	.4955	.2040	.25107	.4025	78.46
#1	.0004	.9923	10.24	9.266	10.01	.96198	.9999	.0001
#2	-.0006	.9954	10.19	9.332	9.982	.95857	1.006	.0002
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass	None
Value								
Range								

Sample Name: CCVB Acquired: 3/1/2017 13:17:20 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	10.37	9.987	.0029	10.06	.0014	9.750	.98492
Stddev	.0002	.03	.029	.0016	.10	.0008	.004	.00396
%RSD	45.37	.3220	.2906	54.86	.9472	56.92	.0394	.40172
#1	.0007	10.35	9.966	.0041	9.997	.0008	9.747	.98212
#2	.0004	10.40	10.01	.0018	10.13	.0020	9.753	.98772
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0035	-.0006	-.0007	.0005	-.0001	.0002	1.062	.9925
Stddev	.0011	.0004	.0001	.0004	.0002	.0002	.010	.0045
%RSD	30.99	58.41	20.01	76.39	303.9	71.62	.9012	.4526
#1	.0043	-.0009	-.0008	.0008	.0001	.0001	1.056	.9956
#2	.0027	-.0004	-.0006	.0002	-.0002	.0003	1.069	.9893
Check ?	None	None	None	None	None	None	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2060.9	35957.	2526.5
Stddev	1.7	41.	16.0
%RSD	.08120	.11428	.63220
#1	2059.7	35986.	2537.8
#2	2062.1	35928.	2515.2

Sample Name: CCVA Acquired: 3/1/2017 13:19:49 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2560	.2939	.2566	.2530	.2579	.25244	F .1448	.2575
Stddev	.0020	.0020	.0001	.0035	.0050	.00139	.0000	.0003
%RSD	.7876	.6641	.0209	1.365	1.923	.55076	.0020	.1224
#1	.2575	.2925	.2567	.2554	.2544	.25343	.1448	.2577
#2	.2546	.2953	.2566	.2505	.2614	.25146	.1448	.2573
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Fail	Chk Pass
Value							.2500	
Range							-10.44%	

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2486	.4967	.4978	.2520	.2569	.2574	.2565	.2516
Stddev	.0006	.0246	.0113	.0008	.0002	.0005	.0005	.0164
%RSD	.2288	4.962	2.266	.3301	.0880	.2075	.2029	6.534
#1	.2490	.4793	.4899	.2514	.2571	.2571	.2561	.2400
#2	.2482	.5141	.5058	.2526	.2567	.2578	.2568	.2632
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2511	.0005	.2783	.2470	.2593	.24442	.2508	.2454
Stddev	.0007	.0012	.0003	.0066	.0062	.00099	.0043	.0001
%RSD	.2604	274.5	.0981	2.683	2.396	.40647	1.695	.0393
#1	.2506	-.0004	.2781	.2423	.2549	.24372	.2538	.2453
#2	.2515	.0013	.2784	.2517	.2637	.24512	.2478	.2455
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass	None	Chk Pass
Value								
Range								

Sample Name: CCVA Acquired: 3/1/2017 13:19:49 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2521	-.0007	2.405	.2563	.1405	.2537	.2612	.00045
Stddev	.0001	.0033	.029	.0001	.0039	.0016	.0025	.00064
%RSD	.0285	502.3	1.202	.0387	2.759	.6205	.9648	141.86
#1	.2520	-.0030	2.425	.2563	.1433	.2526	.2595	.00000
#2	.2521	.0017	2.384	.2564	.1378	.2548	.2630	.00091
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass	None	None
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2611	.2519	.2549	.2513	.2484	.2437	.0029	-.0140
Stddev	.0004	.0003	.0021	.0013	.0017	.0005	.0021	.0032
%RSD	.1401	.1243	.8246	.5085	.7030	.1881	73.56	22.69
#1	.2614	.2517	.2564	.2522	.2497	.2433	.0044	-.0117
#2	.2609	.2521	.2534	.2504	.2472	.2440	.0014	-.0162
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2061.4	36630.	2562.6
Stddev	.8	89.	26.2
%RSD	.03925	.24390	1.0238
#1	2060.9	36567.	2581.1
#2	2062.0	36693.	2544.0

Sample Name: CCB Acquired: 3/1/2017 13:22:06 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0033	.0011	.0025	-.0024	.0003	.00001	F -.0997
Stddev	.0023	.0010	.0021	.0011	.0001	.00008	.0042
%RSD	69.08	92.39	84.61	45.55	20.47	737.17	4.206
#1	-.0017	.0004	.0039	-.0032	.0002	-.00005	-.1026
#2	-.0049	.0018	.0010	-.0016	.0003	.00007	-.0967
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.0050
Low Limit							-.0050

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0001	.0012	.0000	.0006	.0004	.0001
Stddev	.0002	.0001	.0304	.0001	.0003	.0005	.0010
%RSD	137.5	117.8	2478.	1642.	43.92	120.8	709.1
#1	.0000	.0002	-.0203	.0001	.0004	.0001	-.0006
#2	.0002	.0000	.0227	-.0001	.0008	.0008	.0008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cu3273	Fe2599	Pb2203	Li6707	Mg2790	Mg2795	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0010	.0024	-.0009	-.0002	-.0136	-.0003	.0008
Stddev	.0007	.0005	.0014	.0010	.0883	.0003	.0003
%RSD	71.30	21.04	166.2	386.2	649.9	96.43	37.10
#1	-.0005	.0020	.0002	-.0009	-.0760	-.0005	.0010
#2	-.0015	.0027	-.0019	.0004	.0489	-.0001	.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 3/1/2017 13:22:06 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Mn2576	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00008	-.0008	.0004	.0000	-.0001	.0365	.0096
Stddev	.00008	.0013	.0002	.000	.0034	.0082	.0013
%RSD	108.35	168.2	42.64	3902.	3628.	22.52	13.06
#1	.00013	-.0017	.0003	.0002	-.0025	.0307	.0105
#2	.00002	.0001	.0006	-.0002	.0023	.0424	.0087
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047	.0005	.0155	.00001	.0021	-.0008	-.0009
Stddev	.0153	.0001	.0026	.00008	.0035	.0001	.0002
%RSD	323.4	19.40	16.71	611.75	168.4	15.15	21.76
#1	-.0061	.0006	.0137	.00007	-.0004	-.0007	-.0010
#2	.0155	.0004	.0174	-.00004	.0045	-.0008	-.0008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0004	.0000	-.0006	-.0107
Stddev	.0001	.0003	.000	.0011	.0032
%RSD	77.24	74.11	541.8	182.1	30.28
#1	.0001	.0007	.0001	-.0013	-.0130
#2	.0002	.0002	-.0001	.0002	-.0084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB Acquired: 3/1/2017 13:22:06 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2077.6	36893.	2547.1
Stddev	1.9	47.	6.3
%RSD	.09325	.12834	.24823
#1	2076.2	36927.	2542.6
#2	2079.0	36860.	2551.6

Sample Name: K1701730-004 Acquired: 3/1/2017 13:24:29 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: R Sample Type:
Comment: EM 030117A R

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0062	.0027	.0012	.0056	-.00004	-.0704	.0000	.0001
#1	.0064	.0014	-.0012	.0056	-.00011	-.0748	.0000	.0000
#2	.0059	.0040	.0036	.0055	.00003	-.0661	.0001	.0003

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.26	-.0006	.0002	.0006	-.0001	.0028	-.0008	.0016
#1	14.24	-.0003	.0002	.0003	-.0001	.0077	-.0001	.0023
#2	14.28	-.0009	.0001	.0008	-.0002	-.0022	-.0015	.0009

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8527	.00181	.0010	-.0008	.2676	.5720	.0023	1.673
#1	.8506	.00181	.0007	-.0014	.2716	.5759	.0016	1.695
#2	.8548	.00181	.0012	-.0003	.2637	.5681	.0030	1.650

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	1.462	.12278	.0025	-.0012	-.0010	.0002	.0005
#1	.0013	1.457	.12224	.0033	-.0013	-.0011	.0000	.0002
#2	.0005	1.468	.12332	.0016	-.0011	-.0009	.0004	.0008

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0002	.0018	2.799
#1	.0003	-.0008	2.805
#2	.0001	.0044	2.792

Sample Name: K1701730-004 Acquired: 3/1/2017 13:24:29 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: R Sample Type:
Comment: EM 030117A R

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2063.7	36679.	2539.2
#1	2062.6	36629.	2530.6
#2	2064.8	36729.	2547.8

Sample Name: KQ1701842-01 Acquired: 3/1/2017 13:29:53 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A K1701689-MB RERUN

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	.0047	-.0044	.0000	-.00010	F -.0960	.0001
#1	.0034	.0018	-.0061	.0001	-.00019	-.0988	.0001
#2	-.0022	.0076	-.0028	.0000	-.00001	-.0932	.0001

Elem	Cd2265	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0013	.0001	.0003	-.0003	-.0012	-.0046
#1	.0001	.0013	.0005	.0000	.0009	-.0014	-.0039
#2	.0004	.0014	-.0002	.0006	-.0016	-.0009	-.0054

Elem	Pb2203	Li6707	Mg2795	Mn2576	Mo2020	Ni2216	P_1782
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0011	.0002	-.0001	-.00009	-.0004	.0000	F .2534
#1	-.0030	.0001	-.0002	-.00006	-.0007	.0000	.2506
#2	.0008	.0004	-.0001	-.00012	.0000	-.0001	.2562

Elem	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0286	.0002	-.0002	.0012	.0176	-.00002	.0016
#1	.0486	.0061	-.0140	.0021	.0182	-.00008	.0029
#2	.0086	-.0057	.0136	.0003	.0169	.00005	.0003

Elem	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0024	-.0011	.0003	.0003	-.0001	.0024	-.0092
#1	-.0026	-.0011	.0000	.0006	.0000	.0022	-.0081
#2	-.0022	-.0011	.0006	-.0001	-.0002	.0027	-.0103

Sample Name: KQ1701842-01 Acquired: 3/1/2017 13:29:53 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A K1701689-MB RERUN

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2074.4	36900.	2542.1
#1	2073.9	36816.	2535.2
#2	2074.9	36984.	2549.0

Sample Name: K1701730-001 Acquired: 3/1/2017 13:32:17 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: D Sample Type:
Comment: EM 030117A DISS

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	-.0006	-.0029	.0040	-.00020	-.0804	.0000	.0001
#1	.0044	.0006	-.0017	.0037	-.00022	-.0806	.0000	.0002
#2	-.0027	-.0017	-.0041	.0042	-.00017	-.0802	.0000	.0000

Elem	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.809	-.0002	.0005	.0000	-.0002	.0032	-.0008	-.0013
#1	5.836	.0001	.0001	.0005	-.0008	.0086	-.0003	-.0014
#2	5.781	-.0005	.0009	-.0004	.0004	-.0022	-.0013	-.0012

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5251	.00059	.0002	-.0001	.2695	.3961	.0018	1.133
#1	.5255	.00058	-.0004	-.0001	.2724	.3599	.0040	1.118
#2	.5247	.00060	.0007	-.0001	.2666	.4322	-.0004	1.148

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014	.6943	.04168	.0023	-.0006	-.0013	.0000	.0016
#1	.0019	.7058	.04179	.0025	-.0011	-.0012	.0002	.0021
#2	.0009	.6828	.04158	.0022	-.0002	-.0015	-.0002	.0012

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0012	.0059	.5589
#1	.0013	.0082	.5642
#2	.0011	.0036	.5536

Sample Name: K1701730-001 Acquired: 3/1/2017 13:32:17 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: D Sample Type:
Comment: EM 030117A DISS

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2075.6	36989.	2556.4
#1	2077.7	36858.	2552.4
#2	2073.5	37120.	2560.3

Sample Name: K1701730-002 Acquired: 3/1/2017 13:34:45 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: D Sample Type:
Comment: EM 030117A DISS

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0088	-.0007	-.0021	.0063	-.00004	-.0579	.0000	.0000
#1	.0131	.0016	.0005	.0066	-.00019	-.0564	.0001	.0002
#2	.0045	-.0030	-.0048	.0060	.00011	-.0593	.0000	-.0002

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.59	-.0003	.0008	.0000	-.0002	.0126	-.0028	.0002
#1	19.54	.0002	.0009	-.0001	-.0006	.0187	-.0040	-.0006
#2	19.64	-.0007	.0007	.0001	.0001	.0065	-.0015	.0010

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.244	.00192	.0005	-.0006	.3585	.5278	.0031	2.090
#1	1.238	.00197	.0003	-.0005	.3551	.5602	.0018	2.087
#2	1.250	.00187	.0008	-.0006	.3620	.4955	.0043	2.094

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011	1.763	.14454	-.0001	.0002	-.0014	.0002	.0020
#1	.0010	1.762	.14386	.0010	-.0004	-.0016	.0003	.0019
#2	.0012	1.764	.14522	-.0013	.0008	-.0012	.0002	.0020

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0019	.0021	4.258
#1	.0020	.0014	4.258
#2	.0018	.0029	4.257

Sample Name: K1701730-002 Acquired: 3/1/2017 13:34:45 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: D Sample Type:
Comment: EM 030117A DISS

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2036.9	36615.	2577.5
#1	2034.6	36670.	2582.6
#2	2039.3	36560.	2572.4

Sample Name: K1701730-003 Acquired: 3/1/2017 13:37:12 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: D Sample Type:
Comment: EM 030117A DISS

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034	-.0011	-.0034	.0055	-.00018	-.0651	.0000	.0001
#1	.0040	-.0040	.0000	.0055	-.00011	-.0647	.0000	.0001
#2	.0028	.0019	-.0068	.0056	-.00026	-.0654	-.0001	.0001

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.81	-.0006	.0004	.0002	.0004	.0088	-.0018	.0007
#1	13.76	-.0003	.0009	-.0005	.0014	.0048	-.0014	.0013
#2	13.86	-.0009	.0000	.0010	-.0005	.0128	-.0023	.0000

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8248	.00159	.0004	.0000	.2964	.5412	.0011	1.702
#1	.8214	.00166	.0003	-.0002	.2999	.5440	-.0002	1.711
#2	.8281	.00152	.0006	.0002	.2929	.5384	.0023	1.692

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013	1.445	.11887	.0016	.0000	-.0011	.0009	.0010
#1	.0011	1.451	.11874	-.0003	.0002	-.0014	.0012	.0008
#2	.0016	1.438	.11900	.0035	-.0002	-.0009	.0005	.0011

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0007	.0013	2.753
#1	.0006	.0011	2.762
#2	.0007	.0015	2.744

Sample Name: K1701730-003 Acquired: 3/1/2017 13:37:12 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: D Sample Type:
Comment: EM 030117A DISS

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2061.2	36785.	2562.5
#1	2060.3	36759.	2577.2
#2	2062.0	36812.	2547.8

Sample Name: K1701730-004 Acquired: 3/1/2017 13:39:39 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: D Sample Type:
Comment: EM 030117A DISS

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0030	.0033	-.0063	.0055	-.00017	-.0606	.0000	.0002
#1	-.0044	.0024	-.0071	.0060	-.00020	-.0632	.0001	.0001
#2	-.0016	.0043	-.0055	.0051	-.00014	-.0581	-.0001	.0003

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.11	.0000	.0006	.0005	.0009	-.0105	-.0007	.0006
#1	14.16	.0010	.0008	.0010	.0004	-.0039	-.0007	-.0011
#2	14.07	-.0010	.0005	.0000	.0014	-.0170	-.0007	.0024

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8370	.00166	.0000	-.0001	.2173	.5199	.0040	1.668
#1	.8370	.00158	-.0005	.0000	.2135	.5427	.0030	1.690
#2	.8370	.00174	.0004	-.0003	.2211	.4971	.0051	1.645

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011	1.405	.11963	.0028	.0002	-.0010	.0010	.0011
#1	.0010	1.400	.11973	.0018	.0006	-.0009	.0010	.0011
#2	.0012	1.411	.11952	.0037	-.0002	-.0011	.0010	.0010

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0007	.0020	2.761
#1	.0005	.0036	2.758
#2	.0009	.0005	2.764

Sample Name: K1701730-004 Acquired: 3/1/2017 13:39:39 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: D Sample Type:
Comment: EM 030117A DISS

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2068.9	36600.	2532.4
#1	2071.0	36534.	2523.6
#2	2066.8	36667.	2541.1

Sample Name: K1701731-001 Acquired: 3/1/2017 13:42:07 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: R Sample Type:
Comment: EM 030117A R

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048	.0019	-.0051	.0081	-.00007	-.0495	.0000	.0004
#1	.0007	.0013	-.0060	.0083	.00003	-.0494	-.0001	.0005
#2	.0089	.0025	-.0043	.0078	-.00016	-.0497	.0001	.0003

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	21.50	.0002	.0007	-.0002	-.0009	.0017	.0002	.0002
#1	21.42	-.0005	.0007	.0000	-.0016	.0121	.0012	.0005
#2	21.59	.0009	.0006	-.0004	-.0002	-.0088	-.0008	.0000

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.238	.00081	-.0004	.0008	.2865	.3196	.0058	2.482
#1	3.232	.00086	-.0001	.0004	.2883	.2881	.0046	2.504
#2	3.245	.00075	-.0007	.0011	.2846	.3510	.0069	2.461

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	1.594	.09773	.0016	-.0005	-.0013	.0006	.0010
#1	.0009	1.601	.09768	.0016	-.0006	-.0018	.0006	.0014
#2	-.0001	1.588	.09779	.0015	-.0004	-.0008	.0006	.0006

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0005	.0011	5.448
#1	.0004	.0012	5.453
#2	.0006	.0010	5.444

Sample Name: K1701731-001 Acquired: 3/1/2017 13:42:07 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: R Sample Type:
Comment: EM 030117A R

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2052.9	36305.	2517.2
#1	2051.5	36359.	2523.5
#2	2054.3	36250.	2510.9

Sample Name: K1701731-002 Acquired: 3/1/2017 13:44:33 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: R Sample Type:
Comment: EM 030117A R

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0115	.0007	.0008	.0055	.00004	-.0690	-.0001	.0002
#1	.0070	.0004	.0011	.0056	.00003	-.0641	-.0001	.0002
#2	.0160	.0010	.0006	.0055	.00005	-.0738	-.0001	.0002

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.20	.0002	.0008	.0002	-.0003	.0032	-.0009	.0009
#1	15.32	.0008	.0012	.0001	-.0012	.0120	-.0002	.0022
#2	15.08	-.0005	.0004	.0002	.0006	-.0057	-.0017	-.0005

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9238	.00170	.0006	.0001	.3464	.5958	.0027	1.829
#1	.9303	.00165	.0000	-.0001	.3436	.6088	.0027	1.816
#2	.9174	.00176	.0013	.0003	.3492	.5827	.0028	1.842

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	1.564	.13199	.0024	-.0006	-.0013	.0008	.0013
#1	.0006	1.541	.13255	.0041	.0001	-.0012	.0006	.0009
#2	.0013	1.586	.13143	.0008	-.0013	-.0013	.0009	.0016

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0010	.0000	3.022
#1	.0009	-.0012	3.042
#2	.0012	.0011	3.003

Sample Name: K1701731-002 Acquired: 3/1/2017 13:44:33 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: R Sample Type:
Comment: EM 030117A R

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2068.5	36787.	2518.0
#1	2069.2	36828.	2485.4
#2	2067.8	36746.	2550.5

Sample Name: K1701731-001 Acquired: 3/1/2017 13:47:01 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: D Sample Type:
Comment: EM 030117A DISS

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0032	-.0030	.0084	-.00004	-.0654	-.0001	.0002
#1	.0060	-.0065	-.0065	.0082	-.00010	-.0643	.0001	.0001
#2	-.0055	.0002	.0005	.0087	.00001	-.0666	-.0003	.0003

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	21.48	-.0006	.0001	.0004	.0010	-.0072	-.0005	-.0006
#1	21.33	-.0004	.0000	-.0001	-.0002	-.0045	-.0026	-.0001
#2	21.63	-.0009	.0002	.0009	.0021	-.0099	.0016	-.0011

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.260	.00031	-.0004	.0000	.3135	.3276	.0037	2.562
#1	3.245	.00024	-.0005	-.0001	.3179	.3410	.0051	2.581
#2	3.275	.00038	-.0003	.0001	.3090	.3142	.0023	2.544

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013	1.644	.09916	.0022	-.0005	-.0009	.0006	.0021
#1	.0015	1.641	.09894	.0005	-.0009	-.0009	-.0002	.0022
#2	.0010	1.647	.09939	.0039	-.0002	-.0010	.0014	.0020

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0020	.0014	5.570
#1	.0022	-.0017	5.561
#2	.0018	.0044	5.580

Sample Name: K1701731-001 Acquired: 3/1/2017 13:47:01 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: D Sample Type:
Comment: EM 030117A DISS

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2056.9	36785.	2565.8
#1	2055.9	36735.	2579.1
#2	2058.0	36835.	2552.4

Sample Name: K1701731-002 Acquired: 3/1/2017 13:49:28 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: D Sample Type:
Comment: EM 030117A DISS

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0051	-.0026	.0009	.0060	.00001	-.0634	.0000	.0001
#1	.0042	-.0004	.0053	.0061	-.00002	-.0634	.0002	.0001
#2	.0059	-.0049	-.0034	.0060	.00003	-.0634	-.0002	.0000

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.42	-.0008	.0002	.0002	.0008	.0084	-.0018	.0015
#1	14.44	-.0005	.0006	-.0005	.0013	.0133	-.0027	.0005
#2	14.40	-.0011	-.0002	.0009	.0003	.0035	-.0010	.0024

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8812	.00154	.0001	.0003	.2880	.5331	.0058	1.772
#1	.8814	.00154	-.0003	.0004	.2880	.5129	.0076	1.756
#2	.8810	.00153	.0006	.0001	.2880	.5534	.0040	1.788

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	1.509	.12621	-.0013	.0003	-.0015	-.0002	.0017
#1	.0014	1.509	.12657	-.0032	-.0012	-.0013	.0003	.0017
#2	.0004	1.510	.12584	.0007	.0017	-.0017	-.0007	.0016

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0013	-.0002	2.925
#1	.0012	-.0012	2.937
#2	.0015	.0009	2.913

Sample Name: K1701731-002 Acquired: 3/1/2017 13:49:28 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: D Sample Type:
Comment: EM 030117A DISS

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2056.5	36629.	2548.6
#1	2058.4	36707.	2551.0
#2	2054.7	36551.	2546.3

Sample Name: CCVB Acquired: 3/1/2017 13:51:55 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.460	F 11.26	.0000	1.003	10.10	-.00011	-.0374	.0000
Stddev	.027	.04	.007	.006	.20	.00006	.0010	.000
%RSD	.3588	.3896	330600.	.5950	1.955	56.266	2.725	1061.
#1	7.479	11.29	-.0047	.9989	9.956	-.00015	-.0382	-.0001
#2	7.441	11.23	.0047	1.007	10.24	-.00007	-.0367	.0001
Check ?	None	Chk Fail	None	Chk Pass	Chk Pass	None	None	None
Value		10.00						
Range		10.44%						

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	9.716	9.531	.0002	.0007	-.0012	-.0001	9.939
Stddev	.0001	.027	.126	.0005	.0004	.0001	.0000	.011
%RSD	80.80	.2817	1.325	282.9	54.74	9.466	52.53	.1076
#1	.0002	9.697	9.442	-.0002	.0004	-.0013	-.0001	9.947
#2	.0000	9.736	9.621	.0005	.0009	-.0012	-.0001	9.932
Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	1.005	9.941	9.216	10.02	.94407	.9997	-.0010
Stddev	.0009	.006	.000	.060	.03	.00416	.0043	.0001
%RSD	695.1	.6040	.0037	.6526	.3112	.44036	.4271	6.266
#1	-.0005	1.001	9.941	9.173	10.000	.94701	1.003	-.0011
#2	.0008	1.009	9.942	9.259	10.04	.94113	.9967	-.0010
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass	None
Value								
Range								

Sample Name: CCVB Acquired: 3/1/2017 13:51:55 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	10.42	10.05	.0054	10.08	.0011	9.746	.97819
Stddev	.0004	.03	.09	.0097	.03	.0000	.075	.00757
%RSD	402.0	.2901	.9253	179.4	.2613	3.487	.7676	.77379
#1	.0003	10.40	9.985	-.0014	10.06	.0011	9.693	.97284
#2	-.0002	10.44	10.12	.0122	10.10	.0011	9.799	.98355
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022	-.0025	-.0009	-.0001	-.0001	-.0003	1.064	.9866
Stddev	.0001	.0017	.0002	.0001	.0000	.0001	.004	.0030
%RSD	4.338	67.61	18.72	110.6	27.39	19.94	.3263	.3058
#1	.0023	-.0013	-.0008	.0000	-.0001	-.0003	1.061	.9845
#2	.0021	-.0036	-.0010	-.0001	-.0002	-.0002	1.066	.9888
Check ?	None	None	None	None	None	None	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2060.7	36287.	2537.9
Stddev	2.7	20.	.7
%RSD	.12954	.05517	.02954
#1	2058.8	36273.	2538.4
#2	2062.6	36301.	2537.4

Sample Name: CCVA Acquired: 3/1/2017 13:54:24 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2608	.3018	.2568	.2563	.2559	.25437	F .1608	.2582
Stddev	.0087	.0010	.0001	.0062	.0017	.00029	.0027	.0011
%RSD	3.349	.3308	.0243	2.417	.6593	.11228	1.683	.4213
#1	.2670	.3011	.2568	.2607	.2547	.25416	.1589	.2574
#2	.2547	.3025	.2569	.2519	.2571	.25457	.1627	.2589
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Fail	Chk Pass
Value							.2500	
Range							-10.44%	

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2486	.5060	.4917	.2532	.2587	.2581	.2610	.2443
Stddev	.0004	.0019	.0071	.0013	.0011	.0005	.0042	.0157
%RSD	.1532	.3767	1.438	.5151	.4254	.1901	1.619	6.434
#1	.2483	.5047	.4867	.2541	.2579	.2578	.2639	.2332
#2	.2489	.5074	.4967	.2523	.2595	.2585	.2580	.2554
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2503	.0008	.2247	.2430	.2564	.24220	.2510	.2431
Stddev	.0010	.0011	.0411	.0032	.0013	.00102	.0025	.0003
%RSD	.3940	135.5	18.27	1.332	.5126	.42284	.9771	.1090
#1	.2510	.0015	.1956	.2408	.2555	.24292	.2527	.2429
#2	.2496	.0000	.2537	.2453	.2573	.24148	.2492	.2433
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass	None	Chk Pass
Value								
Range								

Sample Name: CCVA Acquired: 3/1/2017 13:54:24 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2536	.0014	2.426	.2593	.1192	.2563	.2443	.00021
Stddev	.0013	.0042	.053	.0054	.0024	.0008	.0032	.00029
%RSD	.5233	298.2	2.178	2.081	2.019	.3118	1.291	135.56
#1	.2527	-.0016	2.463	.2555	.1209	.2568	.2420	.00001
#2	.2546	.0044	2.389	.2631	.1175	.2557	.2465	.00041
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass	None	None
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2652	.2516	.2549	.2504	.2447	.2438	.0016	-.0106
Stddev	.0014	.0046	.0011	.0000	.0020	.0005	.0039	.0027
%RSD	.5108	1.835	.4194	.0031	.8304	.2189	253.3	25.30
#1	.2662	.2484	.2556	.2504	.2432	.2442	-.0012	-.0125
#2	.2643	.2549	.2541	.2504	.2461	.2434	.0043	-.0087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2086.7	36994.	2589.1
Stddev	4.6	93.	11.6
%RSD	.21980	.25080	.44649
#1	2089.9	37059.	2580.9
#2	2083.4	36928.	2597.3

Sample Name: CCB Acquired: 3/1/2017 13:56:41 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0033	-.0008	.0023	-.0008	.0002	-.00002	F -.0813
Stddev	.0043	.0007	.0048	.0034	.0002	.00002	.0032
%RSD	128.3	92.97	206.4	438.6	104.5	90.938	3.959
#1	-.0003	-.0003	-.0011	-.0032	.0000	-.00003	-.0836
#2	-.0063	-.0013	.0057	.0016	.0003	-.00001	-.0790
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.0050
Low Limit							-.0050

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0001	.0150	.0002	.0006	.0008	.0000
Stddev	.000	.0000	.0194	.0002	.0001	.0007	.0008
%RSD	541.2	21.64	129.2	78.41	12.42	85.15	2995.
#1	-.0001	.0001	.0287	.0001	.0006	.0003	-.0005
#2	.0000	.0001	.0013	.0003	.0007	.0013	.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cu3273	Fe2599	Pb2203	Li6707	Mg2790	Mg2795	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0054	-.0005	-.0006	.0455	-.0002	-.0046
Stddev	.0016	.0051	.0006	.0008	.0493	.0002	.0006
%RSD	391.6	93.17	125.0	128.2	108.3	72.25	13.73
#1	-.0007	.0090	-.0010	-.0012	.0804	-.0004	-.0051
#2	.0015	.0019	-.0001	-.0001	.0107	-.0001	-.0042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 3/1/2017 13:56:41 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Mn2576	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00002	-.0015	.0006	-.0001	-.0046	.0373	.0078
Stddev	.00002	.0030	.0007	.0001	.0055	.0019	.0008
%RSD	119.12	192.9	105.3	142.5	119.4	5.097	10.61
#1	-.00003	-.0037	.0011	.0000	-.0085	.0359	.0084
#2	.00000	.0006	.0002	-.0002	-.0007	.0386	.0072
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0138	.0016	.0064	-.00003	-.0005	-.0011	-.0011
Stddev	.0075	.0003	.0004	.00000	.0017	.0000	.0005
%RSD	54.23	15.73	6.131	8.0117	332.0	3.984	43.51
#1	.0191	.0015	.0061	-.00003	.0007	-.0011	-.0015
#2	.0085	.0018	.0067	-.00003	-.0017	-.0010	-.0008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0006	.0004	-.0004	.0009	-.0070
Stddev	.0000	.0002	.0000	.0024	.0025
%RSD	3.990	61.24	3.991	280.2	35.25
#1	.0006	.0005	-.0004	.0026	-.0053
#2	.0007	.0002	-.0004	-.0008	-.0087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB Acquired: 3/1/2017 13:56:41 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2088.8	36936.	2502.5
Stddev	1.2	30.	22.1
%RSD	.05852	.08160	.88487
#1	2089.6	36958.	2486.9
#2	2087.9	36915.	2518.2

Sample Name: KQ1701517-01 Acquired: 3/1/2017 13:59:04 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2 K1701281-MB

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0059	-.0013	-.0045	.0003	-.00003	F -.1088	-.0002
#1	.0032	-.0016	-.0063	.0001	.00026	-.1086	-.0003
#2	.0086	-.0010	-.0027	.0004	-.00033	-.1091	-.0001

Elem	Cd2265	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0132	.0012	.0006	.0010	.0000	.0013
#1	.0003	.0132	.0016	.0011	.0014	-.0009	-.0027
#2	.0000	.0132	.0008	.0002	.0006	.0010	.0052

Elem	Pb2203	Li6707	Mg2795	Mn2576	Mo2020	Ni2216	P_1782
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	-.0010	.0009	-.00017	-.0001	-.0001	.0095
#1	-.0028	.0010	.0009	-.00010	-.0005	-.0003	.0097
#2	.0036	-.0031	.0009	-.00025	.0002	.0001	.0094

Elem	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0611	.0013	-.0038	.0013	.0271	.00011	.0025
#1	.0766	.0027	.0183	.0015	.0359	.00007	.0052
#2	.0456	-.0002	-.0260	.0010	.0184	.00015	-.0002

Elem	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0126	-.0014	.0003	.0011	.0007	.0024	-.0115
#1	.0128	-.0014	.0001	.0010	.0009	-.0012	-.0123
#2	.0123	-.0014	.0005	.0011	.0006	.0060	-.0107

Sample Name: KQ1701517-01 Acquired: 3/1/2017 13:59:04 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2 K1701281-MB

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2090.5	37306.	2559.4
#1	2091.9	37315.	2564.2
#2	2089.1	37297.	2554.6

Sample Name: KQ1701517-02 Acquired: 3/1/2017 14:01:28 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2 K1701281-LCSS

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	41.92	.3349	.4902	1.565	.33121	.6182	.7555	.7257
#1	42.02	.3332	.4925	1.564	.33101	.6161	.7555	.7253
#2	41.81	.3366	.4880	1.566	.33141	.6204	.7556	.7261

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	32.35	.9046	.8466	.5260	.5583	63.40	.6076	.0389
#1	32.31	.9003	.8484	.5248	.5593	63.17	.6105	.0388
#2	32.38	.9088	.8447	.5271	.5572	63.63	.6047	.0390

Elem	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.36	2.0068	.8369	.7575	2.952	12.84	.7376	14.94
#1	13.35	2.0116	.8393	.7588	2.959	12.85	.7290	14.91
#2	13.37	2.0019	.8345	.7562	2.945	12.84	.7462	14.96

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1976	14.05	.43499	.8959	.5123	2.122	.4897	.9086
#1	.1970	14.05	.43474	.8924	.5142	2.123	.4896	.9094
#2	.1981	14.04	.43525	.8994	.5103	2.121	.4899	.9078

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.9026	-.0062	.6109
#1	.9005	-.0046	.6088
#2	.9048	-.0078	.6130

Sample Name: KQ1701517-02 Acquired: 3/1/2017 14:01:28 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2 K1701281-LCSS

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2077.8	36810.	2607.2
#1	2074.4	36807.	2609.7
#2	2081.2	36814.	2604.8

Sample Name: K1701281-001 Acquired: 3/1/2017 14:03:41 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	>270.0	.0146	.0010	2.036	.00091	-.0091	.0006	-.0010
#1	764.3	.0097	-.0014	2.033	.00103	-.0098	.0005	-.0010
#2	766.9	.0196	.0035	2.040	.00079	-.0085	.0008	-.0009

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	>450.0	.0071	.0176	.0712	.0805	3.873	.0131	.1743
#1	559.2	.0072	.0179	.0716	.0807	3.862	.0137	.1730
#2	564.8	.0071	.0174	.0707	.0802	3.885	.0126	.1757

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.049	.09222	.0017	.1099	.8414	4.353	-.0144	11.37
#1	1.045	.09247	.0027	.1098	.8407	4.380	-.0177	11.37
#2	1.053	.09197	.0007	.1099	.8421	4.325	-.0110	11.38

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0024	4.862	4.8279	-.0079	.0262	3.309	.1089	.0270
#1	-.0023	4.860	4.8070	-.0034	.0270	3.310	.1083	.0268
#2	-.0025	4.864	4.8487	-.0125	.0255	3.307	.1094	.0273

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0284	-.0071	.4115
#1	.0284	-.0083	.4124
#2	.0285	-.0059	.4107

Sample Name: K1701281-001 Acquired: 3/1/2017 14:03:41 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1998.5	33857.	2583.6
#1	2004.1	33861.	2592.2
#2	1992.9	33853.	2574.9

Sample Name: K1701281-001D Acquired: 3/1/2017 14:06:09 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	>270.0	.0156	.0039	2.063	.00099	-.0109	.0004	-.0012
#1	782.9	.0183	.0016	2.071	.00103	-.0104	.0006	-.0013
#2	788.6	.0129	.0062	2.054	.00095	-.0115	.0002	-.0012

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	>450.0	.0087	.0177	.0730	.0820	3.939	.0105	.1764
#1	565.6	.0090	.0174	.0722	.0821	3.955	.0059	.1762
#2	565.5	.0085	.0180	.0739	.0819	3.923	.0151	.1766

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.057	.09421	-.0009	.1150	.8547	4.446	-.0079	12.94
#1	1.057	.09456	-.0005	.1153	.8452	4.413	-.0134	12.95
#2	1.058	.09386	-.0012	.1148	.8642	4.480	-.0024	12.93

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0028	4.945	4.8777	-.0124	.0240	3.310	.1122	.0289
#1	-.0029	4.964	4.8956	-.0105	.0243	3.320	.1125	.0292
#2	-.0028	4.925	4.8599	-.0143	.0237	3.300	.1118	.0285

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0299	-.0050	.4249
#1	.0302	-.0065	.4406
#2	.0296	-.0035	.4092

Sample Name: K1701281-001D Acquired: 3/1/2017 14:06:09 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1991.2	33692.	2614.2
#1	1986.5	33500.	2615.3
#2	1996.0	33884.	2613.0

Sample Name: K1701281-001S Acquired: 3/1/2017 14:08:36 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	>270.0	.1171	.4657	3.089	.04904	.2080	.0453	.0412
#1	785.8	.1242	.4685	3.097	.04905	.2039	.0456	.0413
#2	789.1	.1101	.4629	3.082	.04903	.2121	.0451	.0411

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	>450.0	.1961	.4608	.2914	.3226	4.932	.4190	.1795
#1	579.2	.1979	.4591	.2920	.3227	4.937	.4184	.1811
#2	581.3	.1944	.4624	.2908	.3225	4.927	.4196	.1778

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.377	.53649	.4343	.5387	.8667	10.18	.3865	20.27
#1	5.370	.53522	.4338	.5391	.8768	10.25	.3810	20.23
#2	5.383	.53775	.4348	.5384	.8566	10.10	.3920	20.30

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0439	10.29	4.9146	.0633	.0297	3.731	.5983	.4505
#1	.0433	10.33	4.9232	.0657	.0271	3.735	.5976	.4504
#2	.0444	10.25	4.9061	.0609	.0323	3.727	.5991	.4507

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.4559	-.0032	.4279
#1	.4550	-.0007	.4388
#2	.4567	-.0056	.4171

Sample Name: K1701281-001S Acquired: 3/1/2017 14:08:36 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1981.9**	**33562.**	**2580.2**
#1	1983.0	33512.	2583.6
#2	1980.9	33612.	2576.8

Sample Name: K1701281-001A Acquired: 3/1/2017 14:10:57 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2 A=0.05/10mL ClCV-1,3 + Sb 1000ppm

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	>270.0	4.439	2.256	6.803	.11915	-.0027	1.083	1.028
#1	766.9	4.437	2.255	6.796	.11909	-.0072	1.083	1.028
#2	765.9	4.442	2.258	6.810	.11922	.0018	1.083	1.029

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	>450.0	.4690	1.092	.6072	.6630	6.091	1.989	.1728
#1	569.3	.4722	1.094	.6074	.6655	6.053	1.990	.1725
#2	571.2	.4658	1.090	.6070	.6605	6.129	1.989	.1732

Elem	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.17	1.1655	.0006	1.140	.8503	18.08	2.012	11.34
#1	13.15	1.1670	.0005	1.139	.8429	18.11	2.013	11.31
#2	13.19	1.1639	.0006	1.140	.8576	18.06	2.010	11.37

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5536	17.74	4.7802	1.865	.0257	3.319	1.302	1.060
#1	.5548	17.73	4.7704	1.865	.0273	3.321	1.306	1.059
#2	.5525	17.74	4.7900	1.865	.0241	3.317	1.298	1.060

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	1.075	-.0034	.4187
#1	1.072	.0014	.4274
#2	1.078	-.0082	.4099

Sample Name: K1701281-001A Acquired: 3/1/2017 14:10:57 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2 A=0.05/10mL CICV-1,3 + Sb 1000ppm

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1990.0	33580.	2573.6
#1	1987.0	33565.	2574.7
#2	1993.0	33596.	2572.6

Sample Name: KQ1701944-02 Acquired: 3/1/2017 14:19:37 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A K1701665-MB

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0103	F .0207	-.0036	.0004	-.00035	F -.0851	.0002
#1	.0210	.0191	-.0092	.0003	-.00047	-.0843	.0002
#2	-.0003	.0223	.0020	.0005	-.00024	-.0858	.0001

Elem	Cd2265	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0117	.0005	.0006	.0003	-.0007	.0058
#1	.0005	.0117	-.0007	.0004	-.0003	.0000	.0100
#2	.0001	.0117	.0016	.0008	.0009	-.0014	.0017

Elem	Pb2203	Li6707	Mg2795	Mn2576	Mo2020	Ni2216	P_1782
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0015	.0003	.0045	.00022	.0001	.0002	.0172
#1	-.0019	.0008	.0043	.00024	.0001	.0005	.0186
#2	-.0011	-.0001	.0047	.00019	.0001	.0000	.0158

Elem	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0154	.0116	.0484	.0013	.0573	F .00166	.0043
#1	.0094	.0115	.0606	.0017	.0534	.00166	.0043
#2	.0215	.0117	.0361	.0008	.0611	.00167	.0043

Elem	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	-.0002	.0007	.0008	.0006	.0009	.0139
#1	-.0002	-.0004	.0008	.0009	.0007	.0013	.0090
#2	-.0012	-.0001	.0006	.0007	.0005	.0006	.0188

Sample Name: KQ1701944-02 Acquired: 3/1/2017 14:19:37 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A K1701665-MB

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2067.4	37335.	2548.1
#1	2065.3	37352.	2540.2
#2	2069.5	37318.	2556.1

Sample Name: KQ1701944-01 Acquired: 3/1/2017 14:22:00 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A K1701665-LCSW

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.882	1.628	2.047	4.311	.10291	F .3165	1.045
#1	4.888	1.627	2.046	4.311	.10313	.3159	1.047
#2	4.877	1.629	2.047	4.311	.10268	.3170	1.044

Elem	Cd2265	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.003	10.33	.4200	1.076	.5333	.5423	2.112
#1	1.003	10.33	.4196	1.076	.5337	.5426	2.126
#2	1.002	10.33	.4204	1.076	.5329	.5419	2.097

Elem	Pb2203	Li6707	Mg2852	Mn2576	Mo2020	Ni2216	P_1782
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.007	.0012	10.33	F .97852	.8294	1.036	.0187
#1	2.003	.0015	10.33	.98195	.8307	1.037	.0169
#2	2.011	.0009	10.33	.97510	.8281	1.034	.0205

Elem	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.46	F 1.915	.0112	.5108	10.20	7.9913	2.085
#1	10.51	1.900	.0091	.5101	10.22	7.9824	2.091
#2	10.40	1.930	.0133	.5116	10.18	8.0003	2.079

Elem	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0013	-.0012	1.064	.9939	F .9653	.0071	.0133
#1	-.0013	-.0011	1.065	.9959	.9613	.0048	.0097
#2	-.0013	-.0012	1.063	.9920	.9693	.0095	.0169

Sample Name: KQ1701944-01 Acquired: 3/1/2017 14:22:00 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A K1701665-LCSW

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2033.4	36641.	2518.2
#1	2026.8	36610.	2522.3
#2	2040.0	36673.	2514.0

Sample Name: K1701665-001 Acquired: 3/1/2017 14:24:21 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	-.0025	.0118	14.23	-.00025	40.66	.0007	.0005
#1	.0035	-.0006	.0117	14.14	-.00039	40.63	.0006	.0005
#2	-.0043	-.0045	.0120	14.32	-.00011	40.70	.0008	.0005

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	125.8	.0012	.0025	.0011	-.0027	5.465	.0041	5.148
#1	125.8	.0009	.0036	.0010	-.0025	5.477	.0027	5.123
#2	125.9	.0015	.0015	.0012	-.0029	5.454	.0055	5.172

Elem	Mg2790 *	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	>450.0	.58192	.0251	.0109	7.842	309.9	.0097	18.58
#1	472.2	.58148	.0251	.0112	7.784	309.2	.0048	18.55
#2	473.1	.58235	.0251	.0107	7.900	310.5	.0146	18.61

Elem	Ag3280	Na5895 *	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	*****	9.4508	-.0016	.0015	-.0070	.0036	.0028
#1	.0007	-----	9.4285	.0016	.0050	-.0075	.0050	.0025
#2	.0002	-----	9.4731	-.0049	-.0020	-.0065	.0023	.0030

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0030	.0135	34.43
#1	.0030	.0127	34.45
#2	.0029	.0143	34.41

* 1/20 dilution
am 3/1/17

Sample Name: K1701665-001 Acquired: 3/1/2017 14:24:21 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1474.8**	**25028.**	**2277.9**
#1	1474.9	24992.	2280.5
#2	1474.6	25065.	2275.3

Sample Name: K1701665-001D Acquired: 3/1/2017 14:27:01 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0123	-.0007	.0140	14.19	-.00008	40.84	.0014	.0015
#1	.0111	-.0044	.0107	14.23	-.00012	40.97	.0012	.0015
#2	.0135	.0029	.0173	14.16	-.00003	40.70	.0017	.0014

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	127.6	.0018	.0035	.0008	-.0019	5.381	.0025	5.110
#1	128.3	.0028	.0029	.0014	-.0010	5.433	.0041	5.095
#2	126.9	.0009	.0041	.0002	-.0028	5.329	.0010	5.124

Elem	Mg2790	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	>450.0	.59187	.0238	.0099	8.084	307.9	.0002	18.51
#1	482.3	.59182	.0232	.0102	8.125	307.7	-.0052	18.50
#2	477.7	.59192	.0244	.0096	8.042	308.1	.0056	18.52

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	*****	9.8317	-.0017	.0014	-.0074	.0034	.0042
#1	-.0008	-----	9.8235	-.0075	.0008	-.0075	.0027	.0039
#2	.0004	-----	9.8400	.0040	.0021	-.0073	.0042	.0046

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0033	.0118	33.15
#1	.0035	.0108	34.53
#2	.0032	.0128	31.77

*1/20 dilution
am 3/1/17

Sample Name: K1701665-001D Acquired: 3/1/2017 14:27:01 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1438.5	24957.	2242.6
#1	1469.3	24993.	2228.7
#2	1407.6	24921.	2256.5

Sample Name: CCVB Acquired: 3/1/2017 14:30:12 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.516	F 11.15	-.0017	.9851	10.13	-.00016	-.0109	.0001
Stddev	.013	.06	.0043	.0116	.14	.00007	.0007	.0001
%RSD	.1711	.5664	249.1	1.173	1.333	42.342	6.048	44.25
#1	7.507	11.20	-.0048	.9770	10.23	-.00021	-.0104	.0002
#2	7.525	11.11	.0013	.9933	10.03	-.00011	-.0114	.0001
Check ?	None	Chk Fail	None	Chk Pass	Chk Pass	None	None	None
Value		10.00						
Range		10.44%						

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	9.772	9.460	.0011	.0009	-.0004	.0007	9.969
Stddev	.0001	.088	.126	.0009	.0012	.0010	.0009	.113
%RSD	42.69	.9038	1.333	80.45	138.8	236.1	118.8	1.131
#1	.0002	9.835	9.550	.0017	.0017	-.0012	.0001	10.05
#2	.0003	9.710	9.371	.0005	.0000	.0003	.0014	9.889
Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021	.9933	10.12	9.260	9.908	.95152	.9915	-.0003
Stddev	.0007	.0100	.13	.053	.034	.00181	.0014	.0005
%RSD	34.39	1.012	1.288	.5699	.3441	.19014	.1394	143.3
#1	.0026	.9862	10.22	9.297	9.884	.95280	.9905	.0000
#2	.0016	1.000	10.03	9.222	9.933	.95024	.9924	-.0007
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass	None
Value								
Range								

NR-SQL rerun
GM 3/1/17

Sample Name: CCVB Acquired: 3/1/2017 14:30:12 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	10.61	10.21	.0023	9.985	.0007	F 11.20	.98290
Stddev	.0007	.05	.06	.0062	.027	.0009	.17	.00558
%RSD	135.2	.4378	.5757	264.8	.2728	131.6	1.532	.56749
#1	.0010	10.64	10.17	.0067	9.965	.0013	11.07	.98685
#2	.0000	10.58	10.25	-.0020	10.00	.0000	11.32	.97896
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Fail	Chk Pass
Value							10.00	
Range							10.44%	

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034	-.0021	-.0007	-.0003	.0000	.0000	1.057	.9829
Stddev	.0027	.0000	.0000	.0003	.0003	.001	.004	.0183
%RSD	79.00	1.322	4.843	98.58	1564.	1273.	.4208	1.863
#1	.0015	-.0021	-.0007	-.0001	.0003	.0003	1.060	.9958
#2	.0054	-.0021	-.0008	-.0005	-.0002	-.0004	1.054	.9699
Check ?	None	None	None	None	None	None	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2036.2	35998.	2504.8
Stddev	7.2	29.	26.9
%RSD	.35480	.07972	1.0728
#1	2031.1	35977.	2485.8
#2	2041.3	36018.	2523.8

NR-See rerun
GW 3/1/17

Sample Name: CCVB Acquired: 3/1/2017 14:51:10 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: RERUN

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.522	F 11.18	.0018	.9889	10.21	-.00027	-.0330	.0002
Stddev	.014	.06	.0003	.0032	.00	.00033	.0026	.0001
%RSD	.1859	.5239	18.48	.3224	.0217	121.16	7.770	54.94
#1	7.532	11.22	.0016	.9867	10.21	-.00004	-.0348	.0002
#2	7.513	11.14	.0020	.9912	10.21	-.00051	-.0312	.0001
Check ?	None	Chk Fail	None	Chk Pass	Chk Pass	None	None	None
Value		10.00						
Range		10.44%						

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	9.707	9.488	.0008	.0009	.0001	-.0001	9.925
Stddev	.0001	.016	.083	.0006	.0001	.0001	.0005	.051
%RSD	52.09	.1650	.8770	77.06	17.22	71.12	495.9	.5173
#1	.0002	9.718	9.430	.0004	.0010	.0001	-.0004	9.962
#2	.0004	9.696	9.547	.0012	.0007	.0000	.0002	9.889
Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017	.9880	9.780	9.136	9.683	.93812	.9840	-.0006
Stddev	.0012	.0048	.022	.016	.028	.00076	.0018	.0003
%RSD	73.47	.4826	.2226	.1698	.2853	.08147	.1857	47.76
#1	.0025	.9846	9.765	9.147	9.663	.93758	.9827	-.0004
#2	.0008	.9913	9.795	9.125	9.702	.93866	.9853	-.0008
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass	None
Value								
Range								

Sample Name: CCVB Acquired: 3/1/2017 14:51:10 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: RERUN

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	10.53	9.863	.0013	9.866	.0018	9.592	.97783
Stddev	.0007	.04	.064	.0005	.016	.0002	.020	.00247
%RSD	158.1	.3366	.6454	41.51	.1600	12.48	.2098	.25267
#1	.0010	10.50	9.818	.0009	9.855	.0019	9.578	.97958
#2	-.0001	10.55	9.908	.0016	9.878	.0016	9.607	.97608
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	-.0015	-.0012	.0003	-.0001	.0001	1.080	.9586
Stddev	.0035	.0002	.0000	.0000	.0002	.0003	.002	.0001
%RSD	345.0	13.02	3.855	1.623	280.9	653.2	.1673	.0067
#1	.0035	-.0016	-.0012	.0003	.0001	-.0002	1.081	.9586
#2	-.0014	-.0014	-.0011	.0003	-.0002	.0003	1.078	.9585
Check ?	None	None	None	None	None	None	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2024.9	35720.	2468.4
Stddev	2.0	52.	10.4
%RSD	.09661	.14605	.42311
#1	2026.3	35757.	2461.0
#2	2023.5	35683.	2475.8

Sample Name: CCVA Acquired: 3/1/2017 14:54:27 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2647	.2944	.2505	.2490	.2558	.24980	F .1627	.2599
Stddev	.0007	.0012	.0006	.0012	.0007	.00084	.0063	.0005
%RSD	.2706	.4161	.2379	.4675	.2794	.33438	3.860	.1751
#1	.2652	.2953	.2500	.2481	.2563	.25039	.1672	.2602
#2	.2642	.2936	.2509	.2498	.2553	.24921	.1583	.2595
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Fail	Chk Pass
Value							.2500	
Range							-10.44%	

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2479	.4447	.4882	.2502	.2585	.2598	.2556	.2535
Stddev	.0002	.0138	.0012	.0002	.0005	.0015	.0007	.0102
%RSD	.0718	3.114	.2385	.0660	.1837	.5923	.2925	4.017
#1	.2480	.4545	.4890	.2501	.2582	.2587	.2562	.2463
#2	.2477	.4349	.4874	.2504	.2588	.2609	.2551	.2607
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2514	-.0006	.2690	.2368	.2438	.24067	.2442	.2433
Stddev	.0019	.0001	.0725	.0004	.0051	.00026	.0032	.0007
%RSD	.7514	20.32	26.95	.1562	2.098	.10971	1.326	.2764
#1	.2528	-.0007	.3203	.2365	.2402	.24048	.2465	.2429
#2	.2501	-.0005	.2177	.2370	.2475	.24086	.2419	.2438
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass	None	Chk Pass
Value								
Range								

Sample Name: CCVA Acquired: 3/1/2017 14:54:27 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2536	.0128	2.369	.2496	.1196	.2493	.3396	.00002
Stddev	.0016	.0025	.023	.0007	.0060	.0006	.0015	.00009
%RSD	.6438	19.82	.9849	.2713	4.999	.2328	.4270	503.22
#1	.2547	.0110	2.385	.2501	.1154	.2489	.3406	-.00005
#2	.2524	.0146	2.352	.2491	.1239	.2497	.3385	.00008
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass	None	None
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2698	.2518	.2542	.2487	.2460	.2387	.0017	-.0108
Stddev	.0003	.0004	.0006	.0011	.0001	.0007	.0039	.0059
%RSD	.1157	.1664	.2502	.4510	.0401	.2912	228.6	54.13
#1	.2696	.2521	.2547	.2495	.2459	.2392	.0045	-.0149
#2	.2701	.2515	.2538	.2480	.2460	.2382	-.0011	-.0067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2050.8	36329.	2491.3
Stddev	2.2	42.	6.9
%RSD	.10573	.11600	.27657
#1	2052.4	36300.	2496.2
#2	2049.3	36359.	2486.4

Sample Name: CCB Acquired: 3/1/2017 14:56:44 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	.0024	.0008	.0019	.0001	.00010	F -.0870
Stddev	.0023	.0015	.0045	.0055	.0002	.00000	.0008
%RSD	355.1	63.60	597.6	290.9	172.6	2.4668	.9048
#1	-.0010	.0034	.0039	-.0020	.0000	.00010	-.0875
#2	.0023	.0013	-.0024	.0058	.0002	.00010	-.0864
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.0050
Low Limit							-.0050

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0002	-.0101	-.0003	.0003	.0001	.0000
Stddev	.0001	.0001	.0122	.0001	.0003	.0004	.000
%RSD	77.69	24.46	120.7	27.17	89.93	876.3	3913.
#1	.0002	.0003	-.0188	-.0002	.0001	-.0003	-.0003
#2	.0000	.0002	-.0015	-.0004	.0005	.0004	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cu3273	Fe2599	Pb2203	Li6707	Mg2790	Mg2795	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	-.0031	.0011	.0012	.0782	-.0001	.0045
Stddev	.0001	.0043	.0024	.0009	.0517	.0002	.0023
%RSD	56.26	138.8	230.5	75.20	66.16	195.5	51.07
#1	-.0001	-.0001	-.0007	.0019	.1147	.0000	.0029
#2	-.0001	-.0061	.0028	.0006	.0416	-.0002	.0061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 3/1/2017 14:56:44 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Mn2576	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00002	.0029	.0007	-.0003	.0113	.0437	.0036
Stddev	.00007	.0017	.0003	.0006	.0004	.0190	.0016
%RSD	324.06	59.81	47.80	186.9	3.792	43.42	45.46
#1	-.00007	.0017	.0009	-.0007	.0110	.0303	.0048
#2	.00003	.0041	.0004	.0001	.0116	.0571	.0024
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0092	.0012	.1086	-.00012	.0010	.0000	-.0012
Stddev	.0287	.0005	.0063	.00006	.0002	.0002	.0002
%RSD	313.9	45.14	5.795	50.813	25.05	1093.	18.28
#1	-.0112	.0016	.1041	-.00008	.0012	-.0001	-.0010
#2	.0295	.0008	.1130	-.00017	.0008	.0002	-.0014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0006	-.0001	-.0003	-.0004	.0012
Stddev	.0005	.0005	.0001	.0010	.0025
%RSD	91.11	526.2	30.29	276.6	205.7
#1	.0002	.0002	-.0002	-.0010	.0029
#2	.0009	-.0004	-.0003	.0003	-.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB Acquired: 3/1/2017 14:56:44 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2041.8	36383.	2484.5
Stddev	7.3	77.	6.5
%RSD	.35807	.21259	.26090
#1	2046.9	36438.	2479.9
#2	2036.6	36328.	2489.0

Sample Name: KQ1701944-02 Acquired: 3/1/2017 14:59:07 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A K1701665-MB RERUN

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014	-.0001	-.0063	.0003	-.00023	F -.0846	.0003
#1	.0071	.0002	-.0052	.0006	-.00038	-.0828	.0003
#2	-.0042	-.0004	-.0074	.0001	-.00007	-.0863	.0003

Elem	Cd2265	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0114	-.0002	.0015	-.0003	-.0004	.0004
#1	.0006	.0115	-.0003	.0014	.0007	-.0003	-.0026
#2	.0001	.0112	.0000	.0016	-.0012	-.0005	.0033

Elem	Pb2203	Li6707	Mg2795	Mn2576	Mo2020	Ni2216	P_1782
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0002	.0046	.00020	.0002	-.0001	.0242
#1	.0002	-.0006	.0044	.00020	-.0001	-.0004	.0297
#2	-.0007	.0009	.0047	.00019	.0004	.0001	.0187

Elem	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0470	.0027	.0311	.0017	.1531	F .00170	.0024
#1	.0571	.0006	.0530	.0017	.1534	.00184	.0030
#2	.0369	.0047	.0092	.0017	.1528	.00157	.0018

Elem	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	-.0013	.0006	.0007	.0007	.0038	.0116
#1	-.0013	-.0014	.0004	.0010	.0009	.0027	.0086
#2	.0003	-.0011	.0007	.0004	.0006	.0048	.0146

NR-confirms
am 3/1/17

Sample Name: KQ1701944-02 Acquired: 3/1/2017 14:59:07 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A K1701665-MB RERUN

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2039.2	36553.	2464.9
#1	2030.2	36564.	2458.8
#2	2048.3	36543.	2470.9

NR- confirms
Am 3/1/17

Sample Name: K1701665-001S Acquired: 3/1/2017 15:01:30 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.444	.3180	.7310	14.68	.03839	39.69	.0411	.0386
#1	1.455	.3151	.7322	14.69	.03813	39.48	.0411	.0387
#2	1.433	.3208	.7299	14.67	.03864	39.90	.0411	.0384

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	130.2	.1710	.3877	.1934	.1711	6.011	.3559	4.919
#1	129.9	.1716	.3878	.1947	.1714	5.995	.3582	4.902
#2	130.6	.1703	.3875	.1921	.1709	6.028	.3537	4.937

Elem	Mg2790	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	>450.0	.94405	.8415	.3776	7.705	306.4	.6534	17.63
#1	464.2	.94392	.8424	.3766	7.647	305.8	.6489	17.57
#2	466.0	.94418	.8406	.3786	7.764	306.9	.6579	17.68

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021	*****	17.413	.1285	.0001	-.0028	.4479	.3797
#1	.0017	-----	17.532	.1297	.0000	-.0030	.4499	.3807
#2	.0025	-----	17.295	.1273	.0002	-.0025	.4459	.3786

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.3336	.0134	33.31
#1	.3332	.0144	33.24
#2	.3340	.0125	33.38

* 1/20 dilution
CWM 3/1/17

Sample Name: K1701665-001S Acquired: 3/1/2017 15:01:30 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1469.9	25190.	2227.5
#1	1465.8	25073.	2227.4
#2	1474.0	25307.	2227.7

Sample Name: K1701665-001A Acquired: 3/1/2017 15:04:07 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A A=0.05/10mL CICV-1,3 + Sb 1000ppm

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.304	4.027	2.070	19.05	.11103	40.68	1.129	1.059
#1	4.304	4.015	2.079	19.08	.11106	40.59	1.128	1.059
#2	4.305	4.040	2.061	19.02	.11100	40.77	1.130	1.060

Elem	Ca3158 *	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	135.9	.4756	1.103	.5508	.4990	7.569	2.010	5.165
#1	135.9	.4734	1.101	.5486	.4935	7.562	2.015	5.152
#2	136.0	.4779	1.105	.5530	.5046	7.576	2.004	5.178

Elem	Mg2790 *	Mn2576	Mo2020	Ni2216	P_1782	K_7664 *	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	>450.0	1.6684	.0245	1.060	15.39	323.7	1.868	18.25
#1	476.5	1.6614	.0243	1.059	15.38	323.1	1.867	18.13
#2	476.3	1.6754	.0248	1.061	15.41	324.2	1.868	18.38

Elem	Ag3280	Na5895 *	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5421	*****	9.6543	1.811	.0009	-.0074	1.268	1.086
#1	.5424	-----	9.6174	1.813	.0009	-.0076	1.267	1.086
#2	.5418	-----	9.6912	1.810	.0009	-.0073	1.269	1.086

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.9544	.0187	34.15
#1	.9533	.0197	34.06
#2	.9554	.0177	34.23

*N/A
am 3/1/17

Sample Name: K1701665-001A Acquired: 3/1/2017 15:04:07 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A A=0.05/10mL CICV-1,3 + Sb 1000ppm

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1468.0	25310.	2260.5
#1	1467.9	25365.	2257.6
#2	1468.1	25255.	2263.5

Sample Name: K1701665-001 Acquired: 3/1/2017 15:07:04 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 20 Test Type: Sample Type:
Comment: EM 030117A 1/20

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0025	-.0015	-.0013	.7063	-.00010	2.676	.0001	-.0001
#1	-.0030	-.0020	-.0004	.7127	-.00009	2.688	.0002	.0000
#2	.0080	-.0010	-.0021	.7000	-.00011	2.664	.0000	-.0001

Elem	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.526	.0002	.0006	.0004	.0000	.2806	-.0010	.2376
#1	6.563	.0006	.0004	.0009	.0000	.2850	-.0020	.2361
#2	6.488	-.0001	.0008	-.0001	.0001	.2763	.0001	.2391

Elem	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	21.05	.02999	.0012	.0003	.6229	15.13	.0061	.9721
#1	21.05	.02994	.0011	.0003	.6523	15.10	.0057	.9647
#2	21.06	.03005	.0013	.0004	.5935	15.16	.0065	.9795

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	369.2	.48594	.0012	-.0022	-.0036	.0001	.0003
#1	-.0007	369.6	.48993	.0023	-.0028	-.0035	-.0004	.0003
#2	.0015	368.7	.48195	.0001	-.0016	-.0037	.0005	.0003

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0002	.0023	1.952
#1	.0003	.0040	1.955
#2	.0000	.0006	1.950

Sample Name: K1701665-001 Acquired: 3/1/2017 15:07:04 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 20 Test Type: Sample Type:
Comment: EM 030117A 1/20

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1906.0	33222.	2453.6
#1	1906.6	33336.	2432.9
#2	1905.4	33107.	2474.3

Sample Name: K1701665-001D Acquired: 3/1/2017 15:09:36 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 20 Test Type: Sample Type:
Comment: EM 030117A 1/20

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0080	-.0031	-.0021	.6995	-.00016	2.649	.0001	.0004
#1	.0092	-.0043	-.0053	.6985	-.00005	2.623	.0001	.0004
#2	.0067	-.0019	.0010	.7005	-.00027	2.674	.0002	.0003

Elem	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.550	-.0001	.0000	.0003	-.0002	.2704	-.0017	.2345
#1	6.601	.0000	-.0003	.0021	-.0006	.2641	-.0016	.2333
#2	6.498	-.0002	.0003	-.0016	.0002	.2767	-.0017	.2357

Elem	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.95	.03010	.0008	-.0004	.4735	14.78	.0078	.9161
#1	20.92	.03017	.0013	-.0003	.4819	14.75	.0059	.8964
#2	20.99	.03002	.0003	-.0005	.4651	14.80	.0096	.9358

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015	365.1	.49128	.0009	-.0005	-.0033	.0008	.0002
#1	.0016	365.4	.49174	.0032	-.0018	-.0035	.0001	.0004
#2	.0015	364.8	.49083	-.0015	.0009	-.0031	.0014	.0000

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0002	.0017	1.943
#1	.0002	.0007	1.937
#2	.0003	.0027	1.949

Sample Name: K1701665-001D Acquired: 3/1/2017 15:09:36 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 20 Test Type: Sample Type:
Comment: EM 030117A 1/20

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1893.4	32749.	2419.7
#1	1897.9	32602.	2414.6
#2	1888.9	32896.	2424.8

Sample Name: K1701665-001S Acquired: 3/1/2017 15:12:08 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 20 Test Type: Sample Type:
Comment: EM 030117A 1/20

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0873	.0194	.0394	.7005	.00186	2.456	.0023	.0023
#1	.0837	.0203	.0368	.7022	.00190	2.452	.0022	.0022
#2	.0908	.0184	.0420	.6987	.00182	2.459	.0023	.0023

Elem	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.490	.0085	.0217	.0096	.0087	.3007	.0199	.2149
#1	6.514	.0089	.0220	.0095	.0088	.2961	.0195	.2135
#2	6.466	.0081	.0213	.0096	.0085	.3053	.0204	.2162

Elem	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.77	.04772	.0427	.0206	.4220	13.92	.0456	.8455
#1	19.69	.04761	.0426	.0209	.4232	13.89	.0441	.8540
#2	19.86	.04783	.0427	.0204	.4208	13.95	.0472	.8369

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015	340.0	.86846	.0055	.0002	-.0032	.0228	.0205
#1	.0015	339.6	.87160	.0082	-.0006	-.0033	.0226	.0207
#2	.0014	340.4	.86532	.0029	.0010	-.0030	.0229	.0204

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0186	.0022	1.808
#1	.0185	-.0006	1.819
#2	.0187	.0050	1.798

Sample Name: K1701665-001S Acquired: 3/1/2017 15:12:08 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 20 Test Type: Sample Type:
Comment: EM 030117A 1/20

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1894.9	32975.	2385.3
#1	1894.2	32892.	2368.6
#2	1895.7	33058.	2401.9

Sample Name: K1701739-004 Acquired: 3/1/2017 15:14:41 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043	.0018	.0071	.0515	-.00013	1.683	.0005	.0007
#1	.0035	-.0028	.0075	.0523	-.00010	1.677	.0006	.0009
#2	.0050	.0064	.0067	.0508	-.00015	1.688	.0005	.0005

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	26.33	.0008	.0017	.0004	.0004	.0072	.0094	.0473
#1	26.30	.0005	.0015	-.0001	.0002	-.0039	.0108	.0471
#2	26.35	.0011	.0019	.0009	.0005	.0183	.0081	.0475

Elem	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	29.39	.07838	.0435	.0044	.4636	28.89	.0052	8.155
#1	29.31	.07870	.0436	.0045	.4581	28.85	.0027	8.196
#2	29.47	.07807	.0435	.0043	.4691	28.94	.0077	8.113

Elem	Ag3280	Na5895*	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	>450.0	.36487	-.0036	-.0012	-.0036	.0061	.0029
#1	.0011	493.9	.36497	-.0053	-.0026	-.0039	.0069	.0028
#2	.0001	488.5	.36477	-.0020	.0002	-.0033	.0053	.0030

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0024	.0029	60.30
#1	.0023	.0018	60.38
#2	.0026	.0039	60.22

*1/20 dilution
am 3/1/17

Sample Name: K1701739-004 Acquired: 3/1/2017 15:14:41 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1837.2	32163.	2401.4
#1	1839.8	32079.	2397.7
#2	1834.5	32247.	2405.0

Sample Name: K1701739-005 Acquired: 3/1/2017 15:17:12 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0021	-.0008	.0019	.8017	-.00006	5.034	.0002	.0004
#1	-.0047	.0009	.0010	.8017	-.00009	5.042	.0002	.0002
#2	.0005	-.0025	.0028	.8018	-.00002	5.026	.0003	.0005

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	217.8	.0004	.0042	-.0002	.0005	.4678	.0042	.2742
#1	218.3	.0001	.0042	.0004	.0012	.4708	.0040	.2736
#2	217.3	.0007	.0042	-.0008	-.0001	.4647	.0043	.2747

Elem	Mg2790	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	160.3	1.2518	.0185	.0157	1.305	62.56	.0018	15.82
#1	160.1	1.2525	.0184	.0164	1.287	62.47	.0046	15.83
#2	160.5	1.2511	.0186	.0150	1.323	62.66	-.0011	15.81

Elem	Ag3280	Na5895 *	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013	>450.0	2.4919	-.0042	-.0008	-.0052	.0031	.0192
#1	.0021	1077.	2.4979	-.0065	-.0006	-.0054	.0033	.0193
#2	.0006	1074.	2.4859	-.0020	-.0010	-.0051	.0029	.0191

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0175	.0047	64.95
#1	.0173	.0070	64.81
#2	.0176	.0023	65.08

* 1/20 dilution
am 3/1/17

Sample Name: K1701739-005 Acquired: 3/1/2017 15:17:12 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1695.3	29879.	2345.5
#1	1700.5	29889.	2338.8
#2	1690.2	29868.	2352.1

Sample Name: KQ1702099-02 Acquired: 3/1/2017 15:19:44 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A K1701852-MB

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042	-.0016	.0005	.0005	-.00018	F -.0929	.0000
#1	.0018	.0017	.0042	.0000	-.00030	-.0927	-.0001
#2	.0066	-.0050	-.0033	.0009	-.00006	-.0932	.0000

Elem	Cd2265	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	F .0479	.0005	.0006	-.0012	.0001	-.0039
#1	.0001	.0125	.0004	.0006	-.0004	.0005	-.0034
#2	.0001	.0833	.0006	.0005	-.0020	-.0004	-.0044

Elem	Pb2203	Li6707	Mg2795	Mn2576	Mo2020	Ni2216	P_1782
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0013	.0012	F .0289	-.00009	.0001	.0003	F .0863
#1	.0006	.0017	.0064	-.00003	-.0001	-.0002	.0852
#2	-.0032	.0007	.0515	-.00015	.0002	.0008	.0874

Elem	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .2148	.0031	.0115	.0015	F 1.159	.00052	.0052
#1	.2334	-.0028	.0021	.0017	.9957	.00010	.0049
#2	.1961	.0090	.0209	.0014	1.322	.00095	.0055

Elem	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0015	.0006	.0000	-.0001	.0025	-.0104
#1	.0005	-.0019	.0003	-.0001	-.0002	.0021	-.0056
#2	-.0002	-.0012	.0009	.0000	.0001	.0030	-.0152

NR- see rerun
Gm 3/1/17

Sample Name: KQ1702099-02 Acquired: 3/1/2017 15:19:44 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A K1701852-MB

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2029.7	36424.	2503.1
#1	2028.1	36331.	2487.7
#2	2031.3	36518.	2518.5

NA-See rerun
CW 3/1/17

Sample Name: KQ1702099-01 Acquired: 3/1/2017 15:22:08 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A K1701852-LCSW

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.059	1.730	2.191	4.722	.11056	F .3594	1.139	1.102
#1	5.077	1.720	2.189	4.721	.11121	.3624	1.140	1.102
#2	5.040	1.739	2.193	4.724	.10991	.3564	1.137	1.102

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.22	.4609	1.168	.5772	.5691	2.307	2.195	.0012
#1	11.17	.4617	1.170	.5793	.5704	2.287	2.197	.0012
#2	11.27	.4601	1.167	.5751	.5678	2.326	2.192	.0011

Elem	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.83	1.0820	.9124	1.128	.0594	11.22	2.042	.0285
#1	10.79	1.0812	.9129	1.127	.0582	11.19	2.027	.0358
#2	10.87	1.0828	.9119	1.128	.0606	11.26	2.057	.0211

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5335	11.29	.00000	2.249	-.0001	-.0016	1.178	1.096
#1	.5328	11.27	.00011	2.243	-.0007	-.0014	1.183	1.097
#2	.5342	11.32	-.00012	2.256	.0005	-.0019	1.173	1.094

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	1.034	.0079	-.0114
#1	1.034	.0052	-.0082
#2	1.034	.0106	-.0145

Sample Name: KQ1702099-01 Acquired: 3/1/2017 15:22:08 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A K1701852-LCSW

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1986.4	35195.	2426.6
#1	1984.1	35144.	2417.2
#2	1988.7	35246.	2435.9

Sample Name: CCVB Acquired: 3/1/2017 15:26:23 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.579	10.89	.0010	.9685	10.20	-.00012	-.0355	.0001
Stddev	.008	.02	.0017	.0018	.07	.00006	.0018	.0000
%RSD	.1058	.2236	173.0	.1896	.7166	51.513	4.939	3.646
#1	7.573	10.87	.0022	.9698	10.15	-.00017	-.0368	.0001
#2	7.584	10.90	-.0002	.9672	10.25	-.00008	-.0343	.0001
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	None	None
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	9.650	9.470	.0002	.0007	.0010	-.0009	9.794
Stddev	.0002	.015	.064	.0007	.0007	.0012	.0008	.060
%RSD	228.0	.1516	.6720	298.6	109.9	115.2	90.98	.6130
#1	.0002	9.660	9.425	-.0003	.0001	.0002	-.0003	9.752
#2	.0000	9.640	9.515	.0007	.0012	.0019	-.0014	9.836
Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019	.9724	9.704	9.102	9.574	.94459	.9757	.0012
Stddev	.0014	.0015	.048	.021	.036	.00341	.0011	.0005
%RSD	69.51	.1549	.4962	.2335	.3801	.36116	.1127	39.52
#1	.0029	.9735	9.670	9.087	9.548	.94701	.9765	.0015
#2	.0010	.9713	9.738	9.117	9.600	.94218	.9749	.0008
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass	None
Value								
Range								

Sample Name: CCVB Acquired: 3/1/2017 15:26:23 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	10.40	9.858	.0088	9.584	.0010	9.801	.98515
Stddev	.0005	.02	.022	.0002	.037	.0005	.014	.00558
%RSD	73.31	.1691	.2259	2.710	.3910	54.12	.1391	.56610
#1	.0010	10.41	9.874	.0086	9.558	.0006	9.792	.98120
#2	.0003	10.38	9.843	.0090	9.611	.0013	9.811	.98909
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030	-.0003	-.0012	.0001	.0002	.0000	1.060	.9534
Stddev	.0007	.0020	.0001	.0009	.0000	.0003	.001	.0066
%RSD	24.06	754.7	4.381	1058.	14.80	3805.	.1303	.6927
#1	.0025	-.0017	-.0012	.0007	.0002	-.0002	1.059	.9487
#2	.0035	.0011	-.0013	-.0005	.0002	.0002	1.061	.9581
Check ?	None	None	None	None	None	None	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2009.4	35295.	2451.8
Stddev	6.4	33.	4.3
%RSD	.31724	.09468	.17521
#1	2004.8	35272.	2454.8
#2	2013.9	35319.	2448.8

Sample Name: CCVA Acquired: 3/1/2017 15:28:52 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2674	.2848	.2449	.2484	.2561	.24824	F .1569	.2587
Stddev	.0006	.0026	.0040	.0035	.0012	.00098	.0057	.0004
%RSD	.2106	.9195	1.635	1.406	.4642	.39517	3.639	.1671
#1	.2678	.2867	.2478	.2508	.2552	.24893	.1529	.2584
#2	.2670	.2830	.2421	.2459	.2569	.24755	.1609	.2590
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Fail	Chk Pass
Value							.2500	
Range							-10.44%	

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2479	.4884	.4861	.2535	.2577	.2584	.2517	.2578
Stddev	.0006	.0163	.0008	.0006	.0002	.0018	.0006	.0093
%RSD	.2347	3.343	.1585	.2259	.0620	.6794	.2207	3.611
#1	.2475	.4769	.4856	.2539	.2579	.2571	.2521	.2643
#2	.2483	.5000	.4867	.2531	.2576	.2596	.2513	.2512
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2480	.0011	.2055	.2378	.2373	.24166	.2440	.2447
Stddev	.0008	.0005	.0062	.0011	.0001	.00096	.0007	.0013
%RSD	.3073	43.60	3.024	.4646	.0452	.39754	.2936	.5328
#1	.2485	.0015	.2099	.2385	.2372	.24234	.2445	.2457
#2	.2474	.0008	.2012	.2370	.2373	.24098	.2435	.2438
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass	None	Chk Pass
Value								
Range								

Sample Name: CCVA Acquired: 3/1/2017 15:28:52 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2520	.0391	2.388	.2495	.1334	.2465	.5378	.00007
Stddev	.0014	.0092	.041	.0073	.0215	.0002	.0025	.00004
%RSD	.5696	23.55	1.706	2.907	16.12	.0701	.4580	49.304
#1	.2530	.0326	2.416	.2443	.1486	.2466	.5361	.00010
#2	.2510	.0456	2.359	.2546	.1182	.2464	.5396	.00005
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass	None	None
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2621	.2515	.2570	.2531	.2462	.2401	.0051	-.0036
Stddev	.0026	.0016	.0025	.0013	.0004	.0006	.0033	.0008
%RSD	.9901	.6459	.9553	.5062	.1751	.2464	64.53	23.68
#1	.2603	.2504	.2587	.2540	.2465	.2397	.0075	-.0030
#2	.2639	.2527	.2553	.2521	.2459	.2405	.0028	-.0042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2051.7	35777.	2441.5
Stddev	5.2	94.	6.0
%RSD	.25525	.26211	.24760
#1	2048.0	35844.	2445.8
#2	2055.4	35711.	2437.2

Sample Name: CCB Acquired: 3/1/2017 15:31:10 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	.0030	.0007	-.0027	-.0001	-.00002	F -.0873
Stddev	.0006	.0005	.0054	.0001	.0005	.00010	.0018
%RSD	107.2	15.05	741.1	2.801	381.5	504.43	2.062
#1	-.0001	.0027	-.0031	-.0027	.0002	-.00009	-.0886
#2	-.0010	.0034	.0046	-.0026	-.0005	.00005	-.0860
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.0050
Low Limit							-.0050

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0001	.0064	-.0003	.0004	.0004	.0000
Stddev	.0001	.0001	.0038	.0001	.0003	.0006	.001
%RSD	71.97	230.5	58.69	29.13	79.41	137.6	31650.
#1	.0000	.0000	.0091	-.0002	.0006	.0008	-.0003
#2	.0001	-.0002	.0038	-.0004	.0002	.0000	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cu3273	Fe2599	Pb2203	Li6707	Mg2790	Mg2795	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0008	-.0006	-.0005	.0000	.0687	-.0001	.0035
Stddev	.0003	.0071	.0024	.0002	.0318	.0001	.0054
%RSD	33.47	1210.	527.3	8878.	46.25	81.94	154.0
#1	-.0006	-.0056	.0013	-.0001	.0911	-.0001	-.0003
#2	-.0010	.0045	-.0022	.0001	.0462	-.0002	.0073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

NR-see rerun
am 3/1/17

Sample Name: CCB Acquired: 3/1/2017 15:31:10 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Mn2576	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00019	.0000	.0011	-.0002	.0290	.0883	.0053
Stddev	.00010	.0011	.0008	.0004	.0020	.0351	.0048
%RSD	49.860	4442.	68.70	223.0	6.910	39.71	91.13
#1	.00013	.0008	.0006	.0001	.0305	.0635	.0086
#2	.00026	-.0008	.0016	-.0004	.0276	.1131	.0019
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0098	.0015	F .2782	-.00011	.0011	-.0001	-.0013
Stddev	.0084	.0007	.0162	.00001	.0024	.0000	.0001
%RSD	85.99	47.21	5.813	10.559	227.8	33.41	4.725
#1	.0158	.0020	.2896	-.00011	-.0006	-.0001	-.0013
#2	.0039	.0010	.2668	-.00010	.0027	-.0002	-.0012
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.2000				
Low Limit			-.2000				

Elem	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0001	-.0002	-.0030	-.0117
Stddev	.0003	.0001	.0001	.0029	.0034
%RSD	75.43	53.31	62.80	97.50	29.17
#1	.0006	.0001	-.0001	-.0051	-.0141
#2	.0002	.0002	-.0003	-.0009	-.0093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

NR-see rerun
am 3/1/17

Sample Name: CCB Acquired: 3/1/2017 15:31:10 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2034.0	36193.	2490.3
Stddev	5.3	63.	3.7
%RSD	.25940	.17346	.14943
#1	2037.7	36148.	2487.7
#2	2030.2	36237.	2492.9

NR-see rerun
AW 3/1/17

Sample Name: CCB Acquired: 3/1/2017 15:41:30 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: RERUN

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0061	.0015	-.0017	-.0018	.0000	-.00010	F -.0922
Stddev	.0002	.0006	.0029	.0039	.0002	.00005	.0024
%RSD	3.476	40.93	168.5	219.5	1180.	55.664	2.574
#1	.0060	.0010	-.0038	.0010	-.0001	-.00014	-.0939
#2	.0063	.0019	.0003	-.0045	.0001	-.00006	-.0905
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.0050
Low Limit							-.0050

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0002	-.0049	-.0003	.0006	.0009	-.0007
Stddev	.0001	.0003	.0024	.0001	.0007	.0002	.0004
%RSD	51.02	117.8	49.52	23.14	105.2	25.21	51.60
#1	.0001	.0000	-.0067	-.0003	.0011	.0008	-.0004
#2	.0003	.0004	-.0032	-.0002	.0002	.0011	-.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cu3273	Fe2599	Pb2203	Li6707	Mg2790	Mg2795	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	-.0005	-.0031	.0004	.0430	-.0002	.0000
Stddev	.0003	.0018	.0006	.0002	.0412	.0001	.006
%RSD	49.96	337.1	20.65	51.27	95.81	27.41	17190.
#1	.0009	.0007	-.0035	.0002	.0139	-.0002	.0039
#2	.0004	-.0018	-.0026	.0005	.0721	-.0002	-.0040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 3/1/2017 15:41:30 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: RERUN

Elem	Mn2576	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00006	.0002	-.0002	-.0002	.0144	.0774	.0046
Stddev	.00000	.0003	.0002	.0003	.0019	.0159	.0034
%RSD	3.8622	126.6	72.16	137.1	13.32	20.50	72.70
#1	-.00006	.0004	-.0004	.0000	.0131	.0662	.0022
#2	-.00006	.0000	-.0001	-.0004	.0158	.0887	.0070
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0205	.0014	F .2077	-.00013	.0048	-.0014	-.0016
Stddev	.0374	.0003	.0066	.00007	.0003	.0008	.0000
%RSD	182.2	18.53	3.192	51.294	6.901	57.49	1.978
#1	-.0469	.0012	.2030	-.00017	.0046	-.0009	-.0017
#2	.0059	.0016	.2124	-.00008	.0051	-.0020	-.0016
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.2000				
Low Limit			-.2000				

Elem	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0001	-.0001	.0008	-.0139
Stddev	.0001	.0002	.0002	.0032	.0015
%RSD	86.03	173.4	355.5	422.9	10.54
#1	.0001	.0003	-.0002	.0030	-.0149
#2	.0002	.0000	.0001	-.0015	-.0129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB Acquired: 3/1/2017 15:41:30 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: RERUN

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2044.0	36304.	2464.4
Stddev	3.8	22.	4.0
%RSD	.18441	.06167	.16367
#1	2041.3	36288.	2467.3
#2	2046.7	36320.	2461.5

Sample Name: KQ1702099-02 Acquired: 3/1/2017 15:45:16 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A K1701852-MB RERUN

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0041	-.0025	-.0049	.0005	-.00015	F -.0823	.0000
#1	-.0102	-.0008	-.0084	.0003	-.00023	-.0864	.0000
#2	.0020	-.0041	-.0015	.0006	-.00008	-.0782	.0000

Elem	Cd2265	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0034	.0002	.0005	-.0006	.0005	-.0030
#1	.0004	.0033	.0004	.0004	-.0005	.0003	-.0082
#2	.0003	.0035	-.0001	.0007	-.0007	.0007	.0022

Elem	Pb2203	Li6707	Mg2795	Mn2576	Mo2020	Ni2216	P_1782
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0020	.0007	.0006	.00000	.0000	.0001	.0335
#1	-.0016	-.0002	.0005	-.00010	.0004	.0007	.0367
#2	-.0025	.0016	.0006	.00011	-.0003	-.0005	.0303

Elem	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0584	.0032	.0156	.0018	.1885	-.00001	.0014
#1	.0672	-.0004	.0297	.0020	.1930	-.00006	.0019
#2	.0496	.0067	.0014	.0016	.1841	.00003	.0008

Elem	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-.0016	.0001	-.0001	-.0001	.0025	-.0075
#1	-.0017	-.0016	-.0002	-.0001	-.0001	.0021	-.0077
#2	.0017	-.0015	.0003	.0000	-.0001	.0030	-.0074

Sample Name: KQ1702099-02 Acquired: 3/1/2017 15:45:16 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A K1701852-MB RERUN

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2047.6	36327.	2466.4
#1	2049.1	36318.	2456.3
#2	2046.1	36336.	2476.6

Sample Name: K1701852-001 Acquired: 3/1/2017 15:47:40 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0998	-.0033	.0033	.2115	-.00016	.2879	.0003	.0004
#1	.1028	-.0029	.0049	.2121	-.00021	.2833	.0002	.0005
#2	.0968	-.0038	.0018	.2109	-.00012	.2925	.0004	.0002

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	104.2	.0089	.0070	.0043	.0041	.2016	.0051	.0161
#1	104.4	.0091	.0070	.0037	.0045	.1937	.0035	.0177
#2	103.9	.0086	.0070	.0049	.0038	.2095	.0067	.0146

Elem	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	44.84	1.6199	.0099	.0169	.0996	9.545	.0035	22.84
#1	44.78	1.6185	.0109	.0173	.0936	9.508	.0010	22.78
#2	44.90	1.6213	.0089	.0165	.1057	9.581	.0059	22.89

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019	243.4	.75969	.0017	-.0016	.0529	.0302	.0015
#1	.0017	243.8	.75873	.0042	-.0012	.0530	.0300	.0015
#2	.0020	242.9	.76066	-.0009	-.0021	.0528	.0303	.0015

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0010	.0057	33.84
#1	.0010	.0034	33.81
#2	.0009	.0079	33.88

Sample Name: K1701852-001 Acquired: 3/1/2017 15:47:40 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1880.4	33281.	2403.7
#1	1878.9	33240.	2398.2
#2	1882.0	33322.	2409.2

Sample Name: K1701852-001D Acquired: 3/1/2017 15:52:18 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0972	.0038	.0023	.2118	-.00021	.2910	.0000	.0002
#1	.1008	.0019	-.0012	.2118	-.00020	.2881	.0002	.0003
#2	.0936	.0056	.0057	.2118	-.00023	.2939	-.0001	.0001

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	105.2	.0095	.0069	.0049	.0051	.1906	.0048	.0158
#1	104.9	.0089	.0064	.0051	.0050	.1857	.0069	.0152
#2	105.6	.0102	.0074	.0048	.0051	.1955	.0026	.0165

Elem	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	45.02	1.6427	.0103	.0167	.1057	9.611	.0035	22.94
#1	45.00	1.6464	.0101	.0167	.1044	9.582	.0053	22.88
#2	45.04	1.6390	.0105	.0168	.1069	9.640	.0017	23.01

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	246.3	.76265	-.0012	.0001	.0525	.0302	.0018
#1	.0008	244.9	.76172	.0002	-.0003	.0521	.0307	.0019
#2	.0011	247.7	.76357	-.0026	.0005	.0528	.0297	.0017

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0015	.0054	33.90
#1	.0014	.0067	33.85
#2	.0017	.0041	33.95

Sample Name: K1701852-001D Acquired: 3/1/2017 15:52:18 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1871.5	32922.	2399.7
#1	1868.0	32804.	2395.7
#2	1875.1	33041.	2403.8

Sample Name: K1701852-001S Acquired: 3/1/2017 15:54:47 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.764	.3768	.8546	1.121	.04226	.6801	.0445	.0423
#1	1.772	.3733	.8529	1.124	.04218	.6816	.0446	.0422
#2	1.755	.3803	.8564	1.118	.04233	.6786	.0444	.0424

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	109.6	.1891	.4517	.2254	.2130	1.068	.4182	.0160
#1	109.9	.1906	.4516	.2251	.2115	1.063	.4175	.0165
#2	109.2	.1877	.4519	.2257	.2145	1.074	.4189	.0156

Elem	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	51.00	1.9968	.9077	.4416	.1017	18.74	.7945	22.13
#1	50.84	1.9971	.9079	.4432	.1103	18.70	.7928	21.99
#2	51.16	1.9965	.9075	.4400	.0931	18.79	.7962	22.28

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017	243.5	.73487	.1602	-.0001	.0556	.4915	.4223
#1	.0025	243.5	.73718	.1651	.0002	.0559	.4917	.4222
#2	.0008	243.5	.73257	.1552	-.0005	.0553	.4913	.4224

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.3885	.0040	32.56
#1	.3874	.0058	32.51
#2	.3895	.0023	32.62

Sample Name: K1701852-001S Acquired: 3/1/2017 15:54:47 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1880.1	32940.	2389.5
#1	1876.5	32937.	2372.1
#2	1883.6	32943.	2406.9

Sample Name: K1701852-001A Acquired: 3/1/2017 15:57:16 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A A=0.05/10mL CICV-1,3 + Sb 1000ppm

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.060	4.566	2.311	5.257	.11539	.2849	1.203	1.150
#1	5.066	4.565	2.308	5.266	.11592	.2797	1.200	1.147
#2	5.054	4.566	2.314	5.249	.11487	.2901	1.207	1.154

Elem	Ca3158 *	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	114.2	.5044	1.215	.6036	.5748	2.605	2.241	.0137
#1	113.9	.5040	1.215	.6028	.5733	2.587	2.235	.0146
#2	114.6	.5048	1.216	.6044	.5763	2.624	2.248	.0128

Elem	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	54.00	2.7192	.0123	1.179	.1006	22.50	2.118	22.24
#1	54.32	2.7191	.0125	1.177	.0993	22.64	2.122	22.36
#2	53.68	2.7193	.0121	1.180	.1019	22.36	2.114	22.13

Elem	Ag3280	Na5895 *	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5452	247.1	.73809	2.167	-.0001	.0512	1.301	1.158
#1	.5476	246.7	.73797	2.176	.0014	.0511	1.300	1.157
#2	.5429	247.5	.73820	2.157	-.0016	.0513	1.302	1.158

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	1.057	.0106	32.54
#1	1.058	.0124	32.47
#2	1.056	.0089	32.60

* N/A
am 3/1/17

Sample Name: K1701852-001A Acquired: 3/1/2017 15:57:16 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A A=0.05/10mL CICV-1,3 + Sb 1000ppm

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1879.6	32826.	2364.0
#1	1880.3	32861.	2379.0
#2	1879.0	32791.	2349.0

Sample Name: K1701739-004 Acquired: 3/1/2017 15:59:39 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 20 Test Type: Sample Type:
Comment: EM 030117A 1/20

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0033	.0128	-.0035	.0026	-.00008	.0384	.0001	.0003
#1	-.0065	.0135	.0002	.0024	.00000	.0385	.0001	.0004
#2	-.0002	.0121	-.0071	.0028	-.00015	.0383	.0002	.0002

Elem	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.324	-.0006	.0005	.0000	-.0010	-.0020	.0020	.0012
#1	1.317	-.0010	.0006	-.0006	-.0017	-.0072	.0027	.0007
#2	1.331	-.0003	.0003	.0005	-.0003	.0032	.0013	.0016

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.478	.00405	.0024	-.0002	.0355	1.278	.0114	.4027
#1	1.472	.00401	.0024	-.0003	.0404	1.271	.0085	.3873
#2	1.485	.00409	.0025	-.0001	.0306	1.284	.0144	.4182

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	24.77	.01796	.0046	-.0007	-.0013	.0000	.0005
#1	.0001	24.69	.01788	.0036	-.0009	-.0012	.0000	.0004
#2	.0011	24.85	.01804	.0057	-.0006	-.0014	.0001	.0006

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0000	.0025	3.202
#1	.0001	.0022	3.201
#2	-.0001	.0029	3.204

Sample Name: K1701739-004 Acquired: 3/1/2017 15:59:39 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 20 Test Type: Sample Type:
Comment: EM 030117A 1/20

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2039.2	35625.	2470.6
#1	2040.4	35472.	2471.1
#2	2038.0	35778.	2470.1

Sample Name: K1701739-005 Acquired: 3/1/2017 16:02:01 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 20 Test Type: Sample Type:
Comment: EM 030117A 1/20

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0047	-.0005	.0400	.00001	.2563	.0002	.0002
#1	-.0021	.0034	-.0010	.0397	-.00006	.2604	.0002	.0001
#2	.0031	.0060	.0001	.0402	.00008	.2522	.0001	.0003

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.24	-.0004	.0005	-.0002	-.0006	.0236	-.0023	.0124
#1	11.14	-.0005	.0007	-.0002	-.0005	.0359	-.0030	.0113
#2	11.34	-.0004	.0002	-.0003	-.0008	.0112	-.0015	.0136

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.045	.06555	.0006	.0006	.0841	2.585	.0045	.8017
#1	7.003	.06550	.0007	.0004	.0878	2.568	.0049	.8031
#2	7.086	.06559	.0005	.0008	.0804	2.603	.0041	.8002

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013	56.75	.12420	.0028	-.0004	-.0014	.0003	.0008
#1	.0008	56.77	.12350	.0030	-.0011	-.0015	.0005	.0008
#2	.0019	56.72	.12491	.0026	.0003	-.0013	.0002	.0007

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0007	.0005	3.501
#1	.0009	-.0001	3.505
#2	.0005	.0012	3.496

Sample Name: K1701739-005 Acquired: 3/1/2017 16:02:01 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 20 Test Type: Sample Type:
Comment: EM 030117A 1/20

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2000.0	34947.	2438.7
#1	1997.4	35148.	2457.1
#2	2002.7	34746.	2420.3

Sample Name: KQ1701960-01 Acquired: 3/1/2017 16:04:28 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2 K1701636-MB

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0020	-.0043	.0001	-.00009	F -.0976	.0000
#1	-.0009	.0014	-.0050	.0001	.00014	-.0958	.0000
#2	.0002	.0026	-.0036	.0002	-.00031	-.0993	.0000

Elem	Cd2265	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0126	.0006	.0007	.0001	-.0008	-.0020
#1	.0001	.0095	.0004	.0009	-.0001	-.0008	.0059
#2	.0001	.0157	.0007	.0004	.0003	-.0008	-.0100

Elem	Pb2203	Li6707	Mg2795	Mn2576	Mo2020	Ni2216	P_1782
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0013	.0004	.0032	.00001	.0001	-.0002	.0224
#1	-.0024	-.0001	.0014	.00011	.0000	-.0003	.0232
#2	-.0002	.0009	.0049	-.00009	.0003	-.0001	.0216

Elem	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0772	.0121	-.0025	.0010	F .2347	.00006	.0011
#1	.0805	.0124	-.0064	.0003	.2111	.00001	.0009
#2	.0740	.0117	.0013	.0017	.2582	.00010	.0012

Elem	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0129	-.0010	.0000	.0010	.0007	.0058	-.0116
#1	.0128	-.0011	-.0004	.0012	.0007	.0094	-.0195
#2	.0130	-.0008	.0003	.0008	.0008	.0023	-.0038

Sample Name: KQ1701960-01 Acquired: 3/1/2017 16:04:28 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2 K1701636-MB

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	**2061.1**	**36567.**	**2451.8**
#1	2062.7	36598.	2451.1
#2	2059.5	36536.	2452.6

Sample Name: KQ1701960-02 Acquired: 3/1/2017 16:06:51 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2 K1701636-LCSS

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	39.75	.2961	.5146	1.641	.34413	.6554	.7783	.7422
#1	39.81	.2966	.5160	1.638	.34427	.6531	.7781	.7424
#2	39.68	.2955	.5132	1.645	.34399	.6578	.7785	.7420

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	32.87	.9503	.8844	.5519	.5776	63.97	.6400	.0378
#1	32.85	.9526	.8831	.5511	.5814	64.05	.6459	.0375
#2	32.90	.9479	.8858	.5526	.5738	63.88	.6341	.0381

Elem	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.25	1.9964	.8702	.7895	3.137	13.10	.7532	8.651
#1	13.24	2.0005	.8717	.7916	3.134	13.08	.7537	8.665
#2	13.26	1.9923	.8687	.7874	3.140	13.13	.7527	8.638

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2082	13.62	.43974	.9215	.5381	2.067	.5042	.9558
#1	.2088	13.62	.43905	.9232	.5386	2.072	.5057	.9594
#2	.2075	13.62	.44043	.9198	.5375	2.063	.5027	.9522

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.9341	-.0114	.6470
#1	.9338	-.0129	.6493
#2	.9344	-.0099	.6447

Sample Name: KQ1701960-02 Acquired: 3/1/2017 16:06:51 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2 K1701636-LCSS

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2054.7	36499.	2536.0
#1	2055.7	36470.	2534.4
#2	2053.8	36527.	2537.6

Sample Name: K1701636-001 Acquired: 3/1/2017 16:09:04 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.90	-.0036	.0098	.2041	.00170	-.0346	.0010	.0010
#1	23.04	-.0051	.0108	.2043	.00167	-.0337	.0009	.0010
#2	22.77	-.0021	.0089	.2039	.00173	-.0355	.0010	.0010

Elem	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.611	.0420	.0222	.0400	.0453	24.11	.0107	.0146
#1	3.607	.0422	.0224	.0404	.0457	24.14	.0087	.0152
#2	3.615	.0418	.0220	.0395	.0449	24.08	.0127	.0141

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.439	.27153	.0177	.1108	.4775	2.194	.0123	5.941
#1	6.434	.27111	.0178	.1106	.4800	2.179	.0124	5.879
#2	6.445	.27194	.0176	.1109	.4750	2.210	.0122	6.004

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	1.419	.16095	-.0001	.0115	.3531	.1011	.0576
#1	-.0010	1.429	.16094	-.0029	.0131	.3535	.1024	.0572
#2	.0012	1.409	.16095	.0027	.0099	.3528	.0998	.0579

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0594	-.0051	25.64
#1	.0597	-.0025	25.66
#2	.0590	-.0077	25.62

Sample Name: K1701636-001 Acquired: 3/1/2017 16:09:04 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2147.2	38551.	2650.9
#1	2149.5	38514.	2644.9
#2	2144.9	38587.	2656.9

Sample Name: CCVB Acquired: 3/1/2017 16:11:22 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.568	F 11.10	-.0027	.9787	10.17	-.00010	-.0304	.0001
Stddev	.003	.07	.0029	.0075	.04	.00021	.0022	.0000
%RSD	.0433	.5878	105.4	.7635	.4351	223.97	7.349	2.985
#1	7.571	11.15	-.0007	.9734	10.20	.00006	-.0320	.0001
#2	7.566	11.05	-.0047	.9840	10.14	-.00025	-.0288	.0001
Check ?	None	Chk Fail	None	Chk Pass	Chk Pass	None	None	None
Value		10.00						
Range		10.44%						

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	9.723	9.402	.0003	.0004	-.0004	.0004	9.817
Stddev	.0001	.100	.079	.0009	.0003	.0003	.0008	.029
%RSD	44.55	1.024	.8439	271.7	65.00	76.65	214.8	.2938
#1	.0001	9.794	9.458	-.0003	.0006	-.0002	.0009	9.796
#2	.0002	9.653	9.346	.0010	.0002	-.0006	-.0002	9.837
Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017	.9946	9.763	9.089	9.698	.94369	.9777	.0006
Stddev	.0031	.0024	.087	.025	.042	.00030	.0010	.0001
%RSD	183.4	.2383	.8883	.2768	.4308	.03154	.1062	11.29
#1	.0038	.9929	9.702	9.107	9.668	.94390	.9769	.0006
#2	-.0005	.9962	9.825	9.071	9.727	.94348	.9784	.0005
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass	None
Value								
Range								

Sample Name: CCVB Acquired: 3/1/2017 16:11:22 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	10.46	9.976	.0061	9.716	.0014	9.734	.98384
Stddev	.0002	.06	.067	.0028	.037	.0003	.050	.00005
%RSD	89.57	.5818	.6664	46.32	.3805	23.89	.5117	.00538
#1	.0004	10.50	9.929	.0081	9.690	.0017	9.699	.98388
#2	.0001	10.41	10.02	.0041	9.742	.0012	9.769	.98381
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015	.0004	-.0005	.0002	-.0003	-.0001	1.060	.9674
Stddev	.0012	.0015	.0002	.0005	.0001	.0004	.002	.0093
%RSD	78.29	341.4	33.29	329.7	44.94	506.6	.1759	.9627
#1	.0023	-.0006	-.0006	.0005	-.0004	-.0003	1.059	.9740
#2	.0007	.0015	-.0004	-.0002	-.0002	.0002	1.062	.9609
Check ?	None	None	None	None	None	None	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2013.0	35905.	2492.1
Stddev	1.5	59.	15.0
%RSD	.07517	.16334	.60054
#1	2011.9	35947.	2481.5
#2	2014.0	35864.	2502.7

Sample Name: CCVA Acquired: 3/1/2017 16:13:51 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2626	.2908	.2503	.2501	.2571	.25173	F .1614	.2593
Stddev	.0007	.0082	.0020	.0016	.0015	.00043	.0019	.0000
%RSD	.2734	2.830	.8059	.6297	.5692	.17164	1.171	.0048
#1	.2631	.2850	.2517	.2513	.2581	.25204	.1628	.2593
#2	.2621	.2966	.2489	.2490	.2560	.25143	.1601	.2593
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Fail	Chk Pass
Value							.2500	
Range							-10.44%	

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2477	.4983	.4888	.2523	.2584	.2593	.2563	.2413
Stddev	.0008	.0018	.0011	.0037	.0002	.0006	.0000	.0074
%RSD	.3371	.3619	.2208	1.451	.0762	.2313	.0086	3.086
#1	.2471	.4971	.4881	.2549	.2586	.2597	.2563	.2466
#2	.2483	.4996	.4896	.2497	.2583	.2588	.2563	.2361
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2480	.0008	.1831	.2384	.2444	.24273	.2394	.2454
Stddev	.0004	.0005	.0238	.0002	.0034	.00031	.0046	.0006
%RSD	.1713	57.05	12.99	.0748	1.377	.12858	1.937	.2313
#1	.2483	.0011	.1999	.2385	.2468	.24251	.2361	.2450
#2	.2477	.0005	.1663	.2383	.2420	.24295	.2426	.2458
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass	None	Chk Pass
Value								
Range								

Sample Name: CCVA Acquired: 3/1/2017 16:13:51 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2525	-.0021	2.369	.2477	.1325	.2512	.3377	.00001
Stddev	.0004	.0076	.009	.0086	.0253	.0003	.0037	.00017
%RSD	.1546	359.1	.3923	3.476	19.06	.1146	1.096	1757.7
#1	.2522	.0033	2.362	.2416	.1147	.2514	.3403	.00013
#2	.2527	-.0075	2.375	.2538	.1504	.2510	.3351	-.00011
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass	None	None
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2640	.2537	.2571	.2521	.2469	.2409	.0026	-.0092
Stddev	.0053	.0039	.0013	.0006	.0002	.0009	.0015	.0075
%RSD	2.007	1.535	.5114	.2369	.0734	.3787	59.57	81.81
#1	.2603	.2509	.2581	.2516	.2468	.2402	.0036	-.0145
#2	.2678	.2564	.2562	.2525	.2470	.2415	.0015	-.0039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2057.9	36298.	2482.0
Stddev	4.2	121.	17.0
%RSD	.20630	.33226	.68688
#1	2060.9	36212.	2470.0
#2	2054.9	36383.	2494.1

Sample Name: CCB Acquired: 3/1/2017 16:16:08 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033	-.0021	-.0021	-.0025	.0001	-.00010	F -.0943
Stddev	.0026	.0034	.0009	.0017	.0001	.00004	.0031
%RSD	80.18	161.9	43.51	66.94	96.66	35.513	3.323
#1	.0014	.0003	-.0015	-.0013	.0000	-.00012	-.0921
#2	.0052	-.0045	-.0028	-.0036	.0002	-.00007	-.0965
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.0050
Low Limit							-.0050

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0004	.0047	.0000	.0004	.0004	-.0009
Stddev	.0001	.0004	.0060	.0001	.0007	.0004	.0005
%RSD	192.2	114.5	128.0	326.7	183.0	89.92	54.67
#1	.0000	.0006	.0004	.0001	-.0001	.0002	-.0012
#2	.0001	.0001	.0090	.0000	.0009	.0007	-.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cu3273	Fe2599	Pb2203	Li6707	Mg2790	Mg2795	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	.0057	-.0027	.0007	-.0032	-.0002	.0024
Stddev	.0007	.0028	.0009	.0008	.0713	.0000	.0046
%RSD	189.2	48.62	34.26	108.5	2199.	9.030	191.9
#1	-.0009	.0037	-.0021	.0002	-.0537	-.0001	-.0009
#2	.0001	.0077	-.0034	.0013	.0472	-.0002	.0057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 3/1/2017 16:16:08 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Mn2576	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00011	-.0023	.0003	-.0003	-.0001	.0453	.0011
Stddev	.00021	.0013	.0008	.0006	.0022	.0074	.0016
%RSD	190.22	58.91	275.7	235.2	1936.	16.38	146.5
#1	.00004	-.0013	-.0003	-.0007	.0015	.0506	.0022
#2	-.00026	-.0032	.0008	.0002	-.0017	.0401	.0000
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0113	.0007	.1090	-.00003	-.0009	.0003	-.0008
Stddev	.0173	.0006	.0045	.00006	.0007	.0005	.0000
%RSD	154.0	82.73	4.159	183.28	79.18	137.1	4.926
#1	.0010	.0012	.1122	-.00007	-.0014	.0000	-.0008
#2	-.0235	.0003	.1058	.00001	-.0004	.0007	-.0008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	-.0002	-.0004	.0027	-.0133
Stddev	.0000	.0000	.0002	.0015	.0035
%RSD	3.900	18.08	50.17	54.89	26.50
#1	-.0004	-.0002	-.0003	.0017	-.0158
#2	-.0004	-.0001	-.0006	.0038	-.0108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB Acquired: 3/1/2017 16:16:08 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2044.2	36206.	2471.1
Stddev	.1	69.	15.7
%RSD	.00246	.19071	.63608
#1	2044.2	36157.	2482.3
#2	2044.2	36255.	2460.0

Sample Name: LLCCV Acquired: 3/1/2017 16:22:42 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0128	.0119	.0183	.0084	.0039	.00115	F -.0719
Stddev	.0029	.0024	.0010	.0017	.0004	.00022	.0033
%RSD	22.52	19.75	5.452	19.77	9.422	19.145	4.543
#1	.0107	.0136	.0176	.0095	.0041	.00130	-.0742
#2	.0148	.0103	.0190	.0072	.0036	.00099	-.0696
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							.0200
Range							-30.00%

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307 (2x)	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012	.0010	F .0034	.0200	.0036	F .0028	.0039
Stddev	.0000	.0003	.0185	.0001	.0003	.0004	.0004
%RSD	1.193	29.54	540.4	.2740	8.482	12.68	11.28
#1	.0012	.0012	-.0096	.0199	.0034	.0025	.0036
#2	.0012	.0008	.0165	.0200	.0038	.0030	.0042
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value			.0200			.0020	
Range			-30.00%			30.00%	

Elem	Cu3273	Fe2599 (1)	Pb2203 (2)	Li6707	Mg2790	Mg2795	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042	F .0293	F .0055	.0184	.0865	.0044	F .0013
Stddev	.0011	.0083	.0016	.0010	.0393	.0002	.0008
%RSD	25.45	28.44	28.53	5.457	45.43	4.692	58.80
#1	.0034	.0351	.0044	.0191	.0587	.0046	.0019
#2	.0049	.0234	.0067	.0177	.1143	.0043	.0008
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	None	Chk Pass	Chk Fail
Value		.0200	.0100				.0050
Range		30.00%	-30.00%				-30.00%

(1) Drift
(2) 2x
amm 3/1/17

Sample Name: LLCCV Acquired: 3/1/2017 16:22:42 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Mn2576	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00084	-.0028	.0046	.0036	.0415	.2137	.0239
Stddev	.00001	.0039	.0008	.0001	.0020	.0549	.0002
%RSD	1.7327	139.6	16.76	2.032	4.812	25.67	.7657
#1	.00086	.0000	.0051	.0035	.0429	.2525	.0238
#2	.00083	-.0055	.0040	.0036	.0401	.1749	.0241
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1741	.0046	F .2992	.00089	F .0139	.0189	F .0001
Stddev	.0113	.0010	.0068	.00023	.0052	.0005	.0001
%RSD	6.476	21.46	2.269	25.864	37.33	2.601	204.0
#1	.1661	.0052	.2944	.00105	.0102	.0192	.0000
#2	.1820	.0039	.3040	.00073	.0175	.0185	.0002
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value			.2000		.0100		.0020
Range			30.00%		30.00%		-30.00%

Elem	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0044	.0042	.0037	.0233	.0311
Stddev	.0002	.0005	.0000	.0012	.0075
%RSD	5.226	12.08	.0166	5.335	24.27
#1	.0042	.0046	.0037	.0242	.0257
#2	.0045	.0039	.0037	.0225	.0364
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

*2X
AM 3/1/17

Sample Name: LLCCV Acquired: 3/1/2017 16:22:42 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2060.6	36372.	2460.3
Stddev	1.2	62.	13.5
%RSD	.05879	.17111	.54968
#1	2059.7	36328.	2450.7
#2	2061.5	36416.	2469.8

Sample Name: LLCCV Acquired: 3/1/2017 16:26:39 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: RERUN

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0076	.0124	.0186	.0082	.0043	.00095	F -.0713
Stddev	.0011	.0001	.0032	.0024	.0004	.00004	.0035
%RSD	14.65	.7346	17.42	29.30	9.728	4.0264	4.968
#1	.0068	.0123	.0209	.0099	.0045	.00098	-.0738
#2	.0084	.0124	.0163	.0065	.0040	.00093	-.0688
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							.0200
Range							-30.00%

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011	.0009	.0150	.0194	.0044	F .0028	.0035
Stddev	.0001	.0001	.0050	.0003	.0000	.0003	.0002
%RSD	5.717	7.092	33.18	1.665	.3385	10.67	5.600
#1	.0011	.0009	.0115	.0196	.0044	.0030	.0034
#2	.0012	.0010	.0185	.0192	.0044	.0026	.0037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						.0020	
Range						30.00%	

Elem	Cu3273	Fe2599	Pb2203	Li6707	Mg2790	Mg2795	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0037	.0173	F .0068	.0197	-.0108	.0047	F .0023
Stddev	.0006	.0015	.0004	.0024	.0827	.0002	.0001
%RSD	15.29	8.772	5.786	11.98	768.9	3.928	2.184
#1	.0041	.0162	.0065	.0214	-.0693	.0048	.0023
#2	.0033	.0184	.0070	.0180	.0477	.0046	.0024
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass	Chk Fail
Value			.0100				.0050
Range			-30.00%				-30.00%

Sample Name: LLCCV Acquired: 3/1/2017 16:26:39 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: RERUN

Elem	Mn2576	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00076	.0017	.0033	.0037	.0427	.2450	.0228
Stddev	.00002	.0044	.0001	.0006	.0026	.0192	.0013
%RSD	3.1142	263.4	3.485	15.40	6.129	7.836	5.681
#1	.00078	-.0014	.0034	.0041	.0445	.2314	.0237
#2	.00075	.0048	.0032	.0033	.0408	.2586	.0218
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1850	.0046	F .2806	.00077	F .0132	.0192	F .0010
Stddev	.0211	.0010	.0035	.00010	.0016	.0001	.0000
%RSD	11.41	21.39	1.252	13.591	12.19	.4356	3.611
#1	.2000	.0053	.2781	.00085	.0121	.0193	.0010
#2	.1701	.0039	.2830	.00070	.0144	.0192	.0010
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value			.2000		.0100		.0020
Range			30.00%		30.00%		-30.00%

Elem	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0036	.0038	.0035	.0241	F .0181
Stddev	.0002	.0004	.0003	.0003	.0005
%RSD	6.756	9.992	8.658	1.278	2.886
#1	.0038	.0040	.0037	.0239	.0185
#2	.0035	.0035	.0033	.0244	.0177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value					.0400
Range					-30.00%

Sample Name: LLCCV Acquired: 3/1/2017 16:26:39 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: RERUN

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2057.1	36181.	2453.7
Stddev	2.1	23.	12.0
%RSD	.09991	.06365	.48896
#1	2055.6	36165.	2445.2
#2	2058.6	36198.	2462.1

Sample Name: LLCCV,0.5 Acquired: 3/1/2017 16:29:53 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0223	.0227	.0425	.0179	.0081	.00203	F -.0459
Stddev	.0019	.0008	.0039	.0031	.0003	.00013	.0064
%RSD	8.383	3.515	9.150	17.43	4.026	6.6413	13.95
#1	.0210	.0221	.0397	.0157	.0084	.00213	-.0504
#2	.0237	.0232	.0452	.0201	.0079	.00193	-.0414
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							.0400
Range							-30.00%

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022	.0021	.0482	.0422	.0089	.0046	.0082
Stddev	.0000	.0000	.0225	.0002	.0014	.0004	.0001
%RSD	.1784	.9145	46.65	.4350	15.61	8.932	1.470
#1	.0022	.0021	.0323	.0423	.0099	.0049	.0081
#2	.0022	.0021	.0641	.0420	.0079	.0043	.0083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cu3273	Fe2599	Pb2203	Li6707	Mg2790	Mg2795	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0083	.0477	.0204	.0390	-.0100	.0095	.0100
Stddev	.0006	.0063	.0015	.0016	.0631	.0001	.0052
%RSD	7.302	13.29	7.489	4.104	629.1	1.101	52.37
#1	.0087	.0522	.0193	.0379	.0346	.0095	.0137
#2	.0078	.0432	.0215	.0401	-.0547	.0094	.0063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value							
Range							

Sample Name: LLCCV,0.5 Acquired: 3/1/2017 16:29:53 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Mn2576	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00188	F .0028	.0080	.0084	.0905	.4069	.0416
Stddev	.00016	.0025	.0005	.0002	.0027	.0894	.0034
%RSD	8.5326	86.09	5.992	1.815	3.006	21.97	8.219
#1	.00200	.0046	.0076	.0083	.0886	.4701	.0392
#2	.00177	.0011	.0083	.0085	.0924	.3437	.0440
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		.0020					
Range		30.00%					

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3745	.0093	.4589	.00176	.0228	.0396	F .0027
Stddev	.0145	.0005	.0026	.00011	.0042	.0001	.0006
%RSD	3.885	5.238	.5655	6.4825	18.34	.3326	22.73
#1	.3642	.0097	.4570	.00184	.0199	.0397	.0031
#2	.3848	.0090	.4607	.00168	.0258	.0395	.0022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							.0040
Range							-30.00%

Elem	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0084	.0082	.0077	.0465	.0680
Stddev	.0010	.0003	.0000	.0011	.0022
%RSD	11.86	3.312	.3414	2.381	3.302
#1	.0077	.0084	.0077	.0473	.0664
#2	.0091	.0080	.0077	.0457	.0696
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: LLCCV,0.5 Acquired: 3/1/2017 16:29:53 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2053.6	36254.	2416.0
Stddev	20.8	101.	20.7
%RSD	1.0145	.27852	.85877
#1	2068.3	36183.	2401.3
#2	2038.8	36326.	2430.6

Sample Name: K1701636-001D Acquired: 3/1/2017 16:32:22 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.51	.0049	.0061	.2091	.00136	-.0441	.0014	.0018
#1	20.45	.0054	.0037	.2091	.00134	-.0450	.0014	.0019
#2	20.57	.0044	.0086	.2092	.00138	-.0431	.0015	.0016

Elem	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.226	.0418	.0237	.0482	.0518	25.55	.0076	.0127
#1	3.228	.0423	.0233	.0475	.0520	25.44	.0065	.0130
#2	3.225	.0413	.0241	.0489	.0516	25.65	.0086	.0124

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.141	.27916	.0163	.1230	.4622	1.908	.0060	6.729
#1	6.137	.28016	.0161	.1230	.4664	1.936	.0088	6.719
#2	6.146	.27816	.0165	.1230	.4579	1.881	.0032	6.739

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	1.164	.17068	-.0018	.0109	.3159	.1038	.0586
#1	-.0001	1.170	.17035	.0038	.0107	.3154	.1042	.0583
#2	.0007	1.158	.17100	-.0074	.0112	.3164	.1035	.0589

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0599	-.0004	26.26
#1	.0601	-.0002	26.25
#2	.0596	-.0005	26.27

Sample Name: K1701636-001D Acquired: 3/1/2017 16:32:22 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2131.2	37908.	2596.6
#1	2125.8	37836.	2607.5
#2	2136.7	37980.	2585.7

Sample Name: K1701636-001S Acquired: 3/1/2017 16:34:40 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.94	.2569	.4800	1.179	.05007	.1901	.0498	.0474
#1	24.15	.2562	.4801	1.176	.05019	.1896	.0496	.0474
#2	23.73	.2576	.4799	1.183	.04994	.1906	.0500	.0474

Elem	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.971	8.031	.2329	.5197	.2798	.3003	25.06	.4710
#1	7.950	7.992	.2333	.5181	.2786	.3015	25.01	.4710
#2	7.992	8.071	.2324	.5213	.2811	.2991	25.11	.4710

Elem	Li6707	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0127	11.55	.71498	.4748	.6123	.4279	7.240	.4543
#1	.0113	11.57	.71505	.4750	.6093	.4216	7.248	.4511
#2	.0141	11.52	.71490	.4746	.6154	.4342	7.232	.4576

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.716	.0479	6.253	2.5855	.0927	.0127	.2367	.5739
#1	4.717	.0480	6.300	2.5843	.0953	.0132	.2377	.5747
#2	4.714	.0478	6.205	2.5866	.0902	.0122	.2356	.5730

Elem	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm
Avg	.5162	.5160	.0034	24.61
#1	.5156	.5144	.0038	24.57
#2	.5167	.5176	.0030	24.64

Sample Name: K1701636-001S Acquired: 3/1/2017 16:34:40 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2110.0	37735.	2590.7
#1	2110.2	37752.	2603.5
#2	2109.7	37719.	2577.9

Sample Name: K1701636-001A Acquired: 3/1/2017 16:36:57 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2 A=0.05/10mL CICV-1,3 + Sb, Sr 1000ppm

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.20	4.794	2.376	5.084	.12159	-.0081	1.174	1.120
#1	27.01	4.802	2.372	5.076	.12150	-.0075	1.176	1.120
#2	27.39	4.787	2.380	5.092	.12168	-.0087	1.173	1.121

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599 *	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.15	.5175	1.226	.6295	.6655	26.46	2.242	.0132
#1	15.16	.5199	1.228	.6317	.6614	26.40	2.237	.0141
#2	15.14	.5150	1.224	.6274	.6695	26.53	2.246	.0123

Elem	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.63	1.3641	.0160	1.268	.4817	14.61	2.249	5.828
#1	18.61	1.3696	.0161	1.267	.4895	14.57	2.255	5.872
#2	18.65	1.3587	.0160	1.270	.4739	14.65	2.243	5.784

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5806	13.21	4.7875	2.293	.0107	.3604	1.312	1.176
#1	.5783	13.19	4.7824	2.298	.0105	.3613	1.316	1.177
#2	.5829	13.22	4.7926	2.288	.0109	.3594	1.307	1.175

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	1.172	.0041	25.35
#1	1.172	.0031	25.34
#2	1.171	.0051	25.36

* N/A
am 3/1/17

Sample Name: K1701636-001A Acquired: 3/1/2017 16:36:57 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2 A=0.05/10mL CICV-1,3 + Sb, Sr 1000ppm

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2099.7	37063.	2558.1
#1	2099.7	36912.	2560.4
#2	2099.7	37214.	2555.8

Sample Name: K1701636-002 Acquired: 3/1/2017 16:39:06 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	21.44	.0166	.0024	.1285	.00022	-.0464	.0007	.0009
#1	21.53	.0138	.0018	.1281	.00027	-.0483	.0008	.0009
#2	21.36	.0195	.0030	.1289	.00017	-.0446	.0006	.0009

Elem	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.992	.0475	.0197	.0260	.0284	31.36	.0104	.0207
#1	3.992	.0468	.0194	.0261	.0294	31.28	.0106	.0209
#2	3.992	.0481	.0200	.0259	.0273	31.45	.0102	.0206

Elem	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.02	.25667	.0041	.1350	.5648	3.896	.0172	5.051
#1	11.05	.25720	.0045	.1345	.5627	3.907	.0217	5.099
#2	10.99	.25614	.0037	.1356	.5669	3.886	.0127	5.004

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016	1.376	.04486	.0018	.0142	1.109	.1380	.0750
#1	.0019	1.372	.04479	.0025	.0155	1.109	.1386	.0754
#2	.0013	1.380	.04493	.0011	.0128	1.109	.1374	.0746

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0744	-.0041	23.63
#1	.0744	-.0065	23.52
#2	.0743	-.0016	23.75

Sample Name: K1701636-002 Acquired: 3/1/2017 16:39:06 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2053.7	37130.	2561.6
#1	2054.1	37176.	2573.4
#2	2053.3	37084.	2549.8

Sample Name: K1701636-003 Acquired: 3/1/2017 16:41:23 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.59	.0086	.0562	.0980	.00007	-.0663	.0083	.0094
#1	22.48	.0110	.0562	.0988	-.00002	-.0679	.0081	.0091
#2	22.70	.0061	.0561	.0972	.00016	-.0647	.0084	.0096

Elem	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.525	.0563	.1439	.0532	.0598	163.6	.0086	.0313
#1	3.540	.0562	.1430	.0529	.0595	164.4	.0065	.0307
#2	3.510	.0563	.1448	.0535	.0600	162.8	.0107	.0319

Elem	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.88	.22843	.1150	.3270	.6745	1.970	.0048	3.647
#1	11.75	.22893	.1153	.3268	.6739	1.900	.0000	3.627
#2	12.01	.22792	.1148	.3271	.6750	2.041	.0097	3.668

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	1.671	.02615	.0011	.0131	1.129	.2026	.1322
#1	-.0005	1.653	.02634	-.0005	.0123	1.128	.2013	.1324
#2	.0006	1.689	.02596	.0026	.0139	1.129	.2038	.1319

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.1326	.0085	174.4
#1	.1312	.0098	173.5
#2	.1340	.0073	175.3

Sample Name: K1701636-003 Acquired: 3/1/2017 16:41:23 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2022.1	36253.	2537.2
#1	2019.0	36213.	2503.9
#2	2025.3	36293.	2570.5

Sample Name: K1701636-004 Acquired: 3/1/2017 16:43:41 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.30	.0043	.0164	.1525	.00124	-.0359	.0009	.0020
#1	27.15	.0043	.0165	.1505	.00128	-.0357	.0009	.0017
#2	27.46	.0042	.0164	.1545	.00121	-.0360	.0009	.0023

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.11	.0959	.0385	.0198	.0239	91.91	.0164	.0374
#1	14.07	.0960	.0384	.0206	.0238	91.25	.0163	.0391
#2	14.15	.0958	.0386	.0189	.0240	92.56	.0164	.0357

Elem	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.52	1.5053	.0025	.2831	4.407	5.905	.0001	5.639
#1	14.51	1.5092	.0022	.2838	4.425	5.914	.0011	5.639
#2	14.54	1.5013	.0028	.2823	4.389	5.895	-.0009	5.639

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	4.023	.07020	.0047	.0126	1.479	.2375	.1196
#1	.0009	4.019	.06978	.0056	.0130	1.483	.2373	.1197
#2	.0004	4.027	.07062	.0039	.0122	1.475	.2376	.1195

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.1270	.0029	109.5
#1	.1271	-.0022	109.6
#2	.1269	.0080	109.4

Sample Name: K1701636-004 Acquired: 3/1/2017 16:43:41 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2134.5	38612.	2684.7
#1	2135.6	38498.	2698.6
#2	2133.4	38725.	2670.8

Sample Name: K1701636-005 Acquired: 3/1/2017 16:46:03 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.31	-.0021	-.0012	.0862	.00014	-.0457	.0007	.0008
#1	12.28	-.0043	.0011	.0862	.00015	-.0438	.0006	.0006
#2	12.35	.0001	-.0034	.0862	.00013	-.0476	.0008	.0009

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	11.53	.0409	.0156	.0198	.0220	24.80	.0080	.0128
#1	11.52	.0416	.0154	.0192	.0208	24.85	.0083	.0133
#2	11.55	.0402	.0157	.0204	.0232	24.75	.0077	.0124

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.664	.48241	.0067	.1553	1.320	1.984	.0041	3.193
#1	5.660	.48345	.0061	.1556	1.321	1.990	.0073	3.205
#2	5.668	.48137	.0074	.1550	1.320	1.977	.0009	3.181

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	2.063	.05290	.0008	.0103	.8430	.1400	.0505
#1	.0004	2.049	.05325	.0049	.0091	.8419	.1398	.0503
#2	.0007	2.078	.05256	-.0032	.0115	.8441	.1402	.0507

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0509	.0039	32.59
#1	.0509	.0057	32.54
#2	.0510	.0021	32.64

Sample Name: K1701636-005 Acquired: 3/1/2017 16:46:03 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2058.6	36681.	2570.5
#1	2053.9	36691.	2569.4
#2	2063.3	36671.	2571.6

Sample Name: KQ1701952-01 Acquired: 3/1/2017 16:48:27 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2 K1701739-MB

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031	-.0010	.0003	.0003	-.00013	F -.0774	-.0002
#1	.0007	-.0038	.0023	.0000	-.00029	-.0765	-.0001
#2	.0054	.0017	-.0016	.0007	.00004	-.0784	-.0002

Elem	Cd2265	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0107	.0006	.0009	-.0004	-.0004	.0094
#1	-.0001	.0108	.0001	.0008	-.0007	-.0007	.0077
#2	-.0002	.0106	.0011	.0010	.0000	-.0001	.0111

Elem	Pb2203	Li6707	Mg2795	Mn2576	Mo2020	Ni2216	P_1782
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015	.0003	.0014	.00004	.0001	-.0005	.0168
#1	.0024	.0003	.0016	.00005	.0000	-.0005	.0199
#2	.0006	.0003	.0012	.00003	.0002	-.0004	.0137

Elem	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0064	.0010	.0037	.0011	.0366	.00000	.0034
#1	-.0280	.0041	.0228	.0010	.0288	.00006	.0041
#2	.0152	-.0021	-.0155	.0012	.0444	-.00006	.0026

Elem	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0133	-.0009	.0006	.0013	.0007	.0031	-.0022
#1	.0132	-.0009	.0013	.0013	.0006	.0029	.0054
#2	.0134	-.0008	.0000	.0012	.0008	.0034	-.0099

Sample Name: KQ1701952-01 Acquired: 3/1/2017 16:48:27 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2 K1701739-MB

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2060.7	36403.	2423.1
#1	2060.8	36455.	2405.6
#2	2060.6	36352.	2440.6

Sample Name: KQ1701952-02 Acquired: 3/1/2017 16:50:50 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2 K1701739-LCSS

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	38.79	.3127	.5072	1.679	.35056	.6759	.8229	.7861
#1	39.03	.3119	.5000	1.679	.35217	.6756	.8231	.7856
#2	38.56	.3134	.5143	1.678	.34896	.6762	.8227	.7866

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	34.15	.9791	.9209	.5486	.5642	61.83	.6367	.0383
#1	34.25	.9754	.9225	.5502	.5667	62.05	.6361	.0390
#2	34.06	.9827	.9193	.5471	.5618	61.60	.6373	.0375

Elem	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	13.06	2.0820	.9066	.8327	2.968	12.88	.7664	7.197
#1	13.03	2.0875	.9056	.8323	2.959	12.85	.7713	7.217
#2	13.09	2.0765	.9077	.8332	2.977	12.92	.7615	7.178

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2072	15.30	.47019	.9634	.5481	1.962	.5302	.9797
#1	.2082	15.24	.47055	.9681	.5471	1.964	.5332	.9802
#2	.2062	15.36	.46983	.9587	.5492	1.959	.5272	.9792

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.9510	-.0082	.6563
#1	.9487	-.0125	.6517
#2	.9532	-.0038	.6609

Sample Name: KQ1701952-02 Acquired: 3/1/2017 16:50:50 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2 K1701739-LCSS

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2058.1	36135.	2503.6
#1	2058.4	36170.	2494.3
#2	2057.7	36101.	2512.9

Sample Name: K1701739-001 Acquired: 3/1/2017 16:53:03 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	86.73	.0013	.0053	.6348	.00244	.0121	.0025	.0020
#1	86.37	-.0065	.0053	.6345	.00252	.0136	.0026	.0020
#2	87.09	.0091	.0053	.6351	.00237	.0105	.0023	.0019

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.24	.1312	.0608	.1240	.1349	106.9	.0331	.0632
#1	22.06	.1320	.0609	.1243	.1337	106.5	.0315	.0631
#2	22.42	.1305	.0608	.1236	.1360	107.4	.0348	.0633

Elem	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	37.61	.84767	.0036	.1069	3.680	23.98	.0007	8.595
#1	37.61	.84841	.0041	.1073	3.684	24.09	.0075	8.656
#2	37.61	.84693	.0031	.1066	3.676	23.87	-.0061	8.535

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	1.729	.18569	.0033	.0135	4.036	.1869	.3001
#1	-.0016	1.725	.18512	.0034	.0141	4.043	.1880	.3000
#2	.0003	1.732	.18625	.0032	.0129	4.029	.1858	.3001

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.2946	-.0029	1.902
#1	.2941	-.0015	1.913
#2	.2950	-.0044	1.891

Sample Name: K1701739-001 Acquired: 3/1/2017 16:53:03 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2066.3	35892.	2475.3
#1	2066.8	35756.	2485.7
#2	2065.8	36028.	2465.0

Sample Name: CCVB Acquired: 3/1/2017 16:55:31 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.620	10.77	.0011	.9837	10.14	.00009	-.0149	.0001
Stddev	.035	.02	.0015	.0019	.11	.00002	.0007	.0002
%RSD	.4600	.1399	132.4	.1900	1.060	28.882	4.871	281.7
#1	7.645	10.76	.0022	.9850	10.06	.00010	-.0154	.0002
#2	7.595	10.78	.0001	.9824	10.21	.00007	-.0144	-.0001
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	None	None
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	9.963	9.531	.0012	.0005	-.0007	-.0004	9.982
Stddev	.0001	.098	.121	.0001	.0002	.0005	.0004	.137
%RSD	88.82	.9828	1.268	5.898	40.36	70.43	85.81	1.372
#1	.0000	9.894	9.445	.0011	.0007	-.0003	-.0007	9.886
#2	.0002	10.03	9.616	.0012	.0004	-.0010	-.0002	10.08
Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	.9567	10.08	9.259	9.359	.96256	.9687	.0002
Stddev	.0002	.0025	.12	.102	.040	.00090	.0074	.0002
%RSD	21.91	.2589	1.174	1.105	.4311	.09332	.7605	126.0
#1	.0011	.9549	9.998	9.187	9.331	.96319	.9635	.0000
#2	.0008	.9584	10.17	9.331	9.388	.96192	.9740	.0003
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass	None
Value								
Range								

Sample Name: CCVB Acquired: 3/1/2017 16:55:31 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	10.31	9.615	.0053	9.566	.0010	9.304	.98469
Stddev	.0002	.01	.041	.0018	.033	.0009	.046	.01146
%RSD	28.25	.1406	.4245	34.38	.3452	94.22	.4902	1.1643
#1	.0009	10.32	9.586	.0040	9.542	.0016	9.272	.97659
#2	.0006	10.30	9.644	.0065	9.589	.0003	9.336	.99280
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0023	.0004	.0000	.0005	-.0001	.0001	1.048	.9708
Stddev	.0013	.0002	.0006	.0002	.0002	.0001	.001	.0051
%RSD	57.39	46.19	4029.	33.82	349.7	61.40	.0544	.5275
#1	-.0014	.0006	-.0004	.0006	-.0002	.0002	1.048	.9672
#2	-.0032	.0003	.0004	.0004	.0001	.0001	1.048	.9745
Check ?	None	None	None	None	None	None	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2049.8	35319.	2391.6
Stddev	2.7	176.	12.4
%RSD	.13024	.49730	.51669
#1	2047.9	35195.	2400.4
#2	2051.7	35443.	2382.9

Sample Name: CCVA Acquired: 3/1/2017 16:58:00 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2589	.4281	.2512	.2479	.2555	.24926	F .1623	.2624
Stddev	.0043	.1325	.0001	.0029	.0006	.00162	.0046	.0005
%RSD	1.655	30.94	.0250	1.151	.2432	.65164	2.862	.2065
#1	.2559	.5218	.2511	.2499	.2559	.24811	.1590	.2621
#2	.2620	.3345	.2512	.2458	.2550	.25041	.1655	.2628
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Fail	Chk Pass
Value							.2500	
Range							-10.44%	

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2512	.4931	.4902	.2532	.2585	.2577	.2502	.2664
Stddev	.0003	.0184	.0003	.0012	.0008	.0011	.0004	.0127
%RSD	.1021	3.730	.0543	.4554	.3071	.4298	.1682	4.773
#1	.2514	.5061	.4900	.2540	.2579	.2585	.2505	.2753
#2	.2510	.4801	.4904	.2524	.2590	.2569	.2499	.2574
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2509	.0008	.2739	.2393	.2352	.24835	.2418	.2451
Stddev	.0036	.0004	.0178	.0005	.0018	.00162	.0032	.0009
%RSD	1.450	49.72	6.483	.2247	.7599	.65296	1.315	.3786
#1	.2484	.0005	.2865	.2397	.2339	.24949	.2440	.2457
#2	.2535	.0011	.2614	.2390	.2364	.24720	.2395	.2444
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass	None	Chk Pass
Value								
Range								

Sample Name: CCVA Acquired: 3/1/2017 16:58:00 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2537	.0050	2.312	.2463	.1189	.2473	.2696	-.00020
Stddev	.0006	.0012	.016	.0024	.0039	.0001	.0250	.00014
%RSD	.2534	23.35	.6745	.9766	3.273	.0559	9.279	70.215
#1	.2533	.0042	2.323	.2480	.1161	.2474	.2519	-.00030
#2	.2542	.0058	2.301	.2446	.1216	.2472	.2873	-.00010
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass	None	None
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2599	.2536	.2603	.2540	.2521	.2402	.0046	-.0039
Stddev	.0032	.0012	.0053	.0015	.0008	.0007	.0016	.0010
%RSD	1.227	.4717	2.029	.5767	.3220	.2905	34.15	24.86
#1	.2576	.2544	.2640	.2530	.2515	.2407	.0035	-.0045
#2	.2621	.2528	.2565	.2551	.2527	.2397	.0057	-.0032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2050.8	36133.	2425.3
Stddev	4.8	75.	7.2
%RSD	.23629	.20809	.29633
#1	2054.2	36186.	2420.2
#2	2047.4	36080.	2430.3

Sample Name: CCB Acquired: 3/1/2017 17:00:17 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	.0021	.0014	-.0020	.0002	-.00005	F -.0839
Stddev	.0075	.0001	.0041	.0049	.0002	.00006	.0027
%RSD	908.8	5.355	300.3	238.7	127.1	113.04	3.183
#1	.0061	.0021	-.0015	-.0055	.0003	-.00009	-.0820
#2	-.0045	.0022	.0043	.0014	.0000	-.00001	-.0858
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.0050
Low Limit							-.0050

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0002	.0027	-.0003	.0000	.0004	-.0011
Stddev	.000	.0001	.0124	.0001	.0005	.0000	.0000
%RSD	2367.	66.23	460.7	17.34	2708.	8.830	4.389
#1	.0000	.0001	.0115	-.0003	.0004	.0004	-.0011
#2	.0000	.0003	-.0061	-.0004	-.0004	.0004	-.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cu3273	Fe2599	Pb2203	Li6707	Mg2790	Mg2795	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0008	.0044	-.0015	.0006	.0762	-.0002	-.0036
Stddev	.0001	.0023	.0034	.0019	.0622	.0001	.0003
%RSD	9.625	53.67	228.3	297.9	81.61	50.11	8.302
#1	-.0008	.0027	.0009	-.0007	.1202	-.0002	-.0033
#2	-.0009	.0060	-.0039	.0020	.0322	-.0001	-.0038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 3/1/2017 17:00:17 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Mn2576	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00002	.0006	.0013	.0003	-.0084	.0029	.0086
Stddev	.00001	.0015	.0003	.0001	.0035	.0191	.0076
%RSD	67.449	231.9	25.41	45.70	41.38	663.9	88.14
#1	-.00001	.0017	.0011	.0004	-.0060	.0164	.0140
#2	-.00003	-.0004	.0015	.0002	-.0109	-.0106	.0032
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0013	.0020	.0362	-.00005	.0014	-.0012	-.0018
Stddev	.0236	.0018	.0036	.00017	.0029	.0004	.0000
%RSD	1846.	92.48	9.858	346.37	204.0	36.43	2.591
#1	-.0180	.0007	.0387	-.00017	.0035	-.0015	-.0018
#2	.0154	.0033	.0336	.00007	-.0006	-.0009	-.0018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	.0001	-.0002	-.0036	-.0107
Stddev	.0004	.0000	.0002	.0023	.0051
%RSD	79.90	15.00	85.10	65.68	47.54
#1	-.0007	.0001	-.0004	-.0019	-.0144
#2	-.0002	.0001	-.0001	-.0052	-.0071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB Acquired: 3/1/2017 17:00:17 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2054.9	35977.	2419.7
Stddev	.7	34.	11.3
%RSD	.03318	.09375	.46696
#1	2054.5	36001.	2411.7
#2	2055.4	35953.	2427.7

Sample Name: LLCCV Acquired: 3/1/2017 17:03:02 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0103	.0113	.0158	.0076	.0040	.00110	F -.0814
Stddev	.0052	.0036	.0049	.0015	.0002	.00019	.0058
%RSD	50.51	31.45	31.16	20.28	5.463	16.942	7.168
#1	.0066	.0088	.0193	.0065	.0041	.00124	-.0855
#2	.0139	.0138	.0123	.0087	.0038	.00097	-.0772
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							.0200
Range							-30.00%

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	.0010	F .0278	.0195	.0047	F .0029	.0036
Stddev	.0001	.0000	.0190	.0001	.0000	.0008	.0002
%RSD	10.87	2.632	68.26	.4358	.4154	29.14	6.329
#1	.0009	.0010	.0413	.0196	.0047	.0023	.0035
#2	.0011	.0010	.0144	.0195	.0047	.0035	.0038
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value			.0200			.0020	
Range			30.00%			30.00%	

Elem	Cu3273	Fe2599	Pb2203	Li6707	Mg2790	Mg2795	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032	.0251	.0089	.0180	-.0677	.0047	F .0035
Stddev	.0002	.0160	.0016	.0004	.0616	.0004	.0026
%RSD	6.603	63.65	18.12	2.392	90.98	8.248	75.93
#1	.0031	.0364	.0100	.0177	-.1113	.0044	.0053
#2	.0034	.0138	.0077	.0183	-.0242	.0049	.0016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Fail
Value							.0050
Range							-30.00%

Sample Name: LLCCV Acquired: 3/1/2017 17:03:02 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Mn2576	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00097	.0014	.0036	.0039	.0459	.2418	.0232
Stddev	.00006	.0008	.0004	.0006	.0019	.0552	.0006
%RSD	6.7065	57.11	10.53	16.44	4.184	22.82	2.471
#1	.00092	.0019	.0038	.0044	.0445	.2808	.0237
#2	.00101	.0008	.0033	.0035	.0473	.2028	.0228
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1600	F .0054	.2201	.00080	F .0135	.0183	F .0006
Stddev	.0014	.0010	.0110	.00010	.0063	.0006	.0002
%RSD	.9055	18.52	4.990	12.347	46.34	3.081	27.15
#1	.1610	.0061	.2123	.00073	.0091	.0187	.0005
#2	.1590	.0047	.2278	.00087	.0179	.0179	.0007
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value		.0040			.0100		.0020
Range		30.00%			30.00%		-30.00%

Elem	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0041	.0038	.0036	.0238	F .0213
Stddev	.0002	.0003	.0002	.0057	.0208
%RSD	4.255	7.076	5.290	23.92	97.48
#1	.0042	.0040	.0035	.0278	.0066
#2	.0040	.0036	.0038	.0198	.0360
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value					.0400
Range					-30.00%

*2x
am 3/1/17

Sample Name: LLCCV Acquired: 3/1/2017 17:03:02 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2041.3	36101.	2452.1
Stddev	2.1	136.	4.2
%RSD	.10153	.37596	.17194
#1	2039.9	36005.	2449.2
#2	2042.8	36197.	2455.1

Sample Name: LLCCV,0.5 Acquired: 3/1/2017 17:05:55 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0190	F .0263	.0410	.0180	.0086	.00216	F -.0626
Stddev	.0034	.0001	.0039	.0018	.0001	.00028	.0016
%RSD	17.92	.5564	9.526	9.783	.6649	13.022	2.563
#1	.0166	.0261	.0437	.0168	.0086	.00236	-.0638
#2	.0214	.0264	.0382	.0193	.0086	.00196	-.0615
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value		.0200					.0400
Range		30.00%					-30.00%

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019	.0022	.0336	.0420	.0076	.0041	.0086
Stddev	.0001	.0001	.0347	.0003	.0003	.0004	.0008
%RSD	7.587	4.587	103.1	.6004	3.916	9.209	9.907
#1	.0020	.0023	.0582	.0422	.0078	.0043	.0092
#2	.0018	.0022	.0091	.0418	.0074	.0038	.0080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cu3273	Fe2599	Pb2203	Li6707	Mg2790	Mg2795	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0074	.0372	.0195	.0382	.0794	.0095	.0112
Stddev	.0008	.0059	.0012	.0000	.0515	.0004	.0035
%RSD	10.41	15.97	6.108	.0987	64.88	4.724	30.91
#1	.0069	.0330	.0203	.0383	.0430	.0092	.0136
#2	.0079	.0414	.0186	.0382	.1159	.0098	.0088
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value							
Range							

Sample Name: LLCCV,0.5 Acquired: 3/1/2017 17:05:55 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Mn2576	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00192	.0016	.0072	.0086	.0782	.4422	.0464
Stddev	.00002	.0001	.0003	.0001	.0020	.0287	.0050
%RSD	1.2585	5.136	3.801	1.482	2.615	6.486	10.80
#1	.00190	.0015	.0074	.0087	.0796	.4625	.0500
#2	.00194	.0017	.0070	.0085	.0767	.4219	.0429
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4038	.0096	.4024	.00179	.0181	.0403	.0029
Stddev	.0104	.0001	.0094	.00016	.0028	.0018	.0003
%RSD	2.564	1.427	2.325	8.9091	15.25	4.539	9.703
#1	.3964	.0095	.3958	.00168	.0162	.0416	.0031
#2	.4111	.0097	.4090	.00190	.0201	.0390	.0027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0081	.0079	.0077	.0482	.0640
Stddev	.0003	.0001	.0003	.0021	.0091
%RSD	3.082	1.343	3.640	4.408	14.17
#1	.0080	.0080	.0079	.0497	.0704
#2	.0083	.0078	.0075	.0467	.0576
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: LLCCV,0.5 Acquired: 3/1/2017 17:05:55 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2058.5	36317.	2478.0
Stddev	2.6	91.	8.7
%RSD	.12709	.25132	.35241
#1	2060.4	36253.	2471.8
#2	2056.7	36382.	2484.2

Sample Name: K1701739-001D Acquired: 3/1/2017 17:08:55 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	85.41	.0000	.0048	.6349	.00254	-.0167	.0014	.0015
#1	85.46	-.0011	.0060	.6352	.00262	-.0193	.0012	.0013
#2	85.36	.0011	.0036	.6347	.00246	-.0142	.0015	.0017

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	21.52	.1250	.0555	.1092	.1189	103.3	.0337	.0646
#1	21.64	.1251	.0561	.1082	.1189	103.4	.0347	.0647
#2	21.40	.1248	.0549	.1101	.1189	103.1	.0328	.0645

Elem	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	37.18	.83336	-.0004	.1020	3.675	23.96	-.0041	9.343
#1	37.16	.83182	-.0009	.1015	3.675	23.94	-.0062	9.333
#2	37.19	.83490	.0001	.1024	3.675	23.98	-.0020	9.352

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	1.758	.18262	.0034	.0135	3.986	.1707	.2865
#1	.0012	1.751	.18289	.0052	.0137	3.975	.1710	.2874
#2	-.0004	1.765	.18235	.0015	.0133	3.998	.1704	.2857

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.2829	-.0021	1.824
#1	.2822	-.0014	1.812
#2	.2835	-.0029	1.836

Sample Name: K1701739-001D Acquired: 3/1/2017 17:08:55 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2044.2	35795.	2522.8
#1	2042.3	35854.	2520.6
#2	2046.1	35735.	2525.0

Sample Name: K1701739-001S Acquired: 3/1/2017 17:11:24 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	101.0	.1169	.4578	1.682	.05079	.1726	.0500	.0473
#1	102.2	.1138	.4601	1.679	.05083	.1726	.0500	.0475
#2	99.73	.1201	.4555	1.686	.05075	.1727	.0499	.0472

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	27.88	.3411	.5701	.3417	.3628	119.2	.4871	.0710
#1	27.84	.3422	.5703	.3406	.3637	118.8	.4857	.0717
#2	27.91	.3400	.5699	.3428	.3619	119.7	.4885	.0702

Elem	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	45.85	1.3348	.4186	.5860	3.890	31.90	.4204	8.119
#1	45.87	1.3333	.4185	.5859	3.900	31.91	.4208	8.091
#2	45.83	1.3364	.4187	.5860	3.880	31.89	.4200	8.147

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0454	6.895	2.6354	.0923	.0135	4.576	.6782	.7673
#1	.0458	6.899	2.6264	.0928	.0139	4.564	.6771	.7698
#2	.0450	6.891	2.6443	.0917	.0130	4.587	.6792	.7649

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.7457	-.0010	1.470
#1	.7462	-.0014	1.477
#2	.7452	-.0006	1.463

Sample Name: K1701739-001S Acquired: 3/1/2017 17:11:24 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2029.6	35799.	2530.4
#1	2025.5	35897.	2540.7
#2	2033.6	35700.	2520.1

Sample Name: K1701739-001A Acquired: 3/1/2017 17:13:50 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2 A=0.05/10mL CICV-1,3 + Sb, Sr 1000ppm

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	90.87	4.646	2.343	5.572	.12066	-.0140	1.184	1.125
#1	90.93	4.644	2.335	5.563	.12104	-.0176	1.184	1.126
#2	90.81	4.648	2.350	5.580	.12027	-.0103	1.183	1.124

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599 *	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	33.72	.6102	1.248	.7090	.7332	108.4	2.243	.0635
#1	33.62	.6090	1.248	.7108	.7362	108.0	2.243	.0648
#2	33.81	.6114	1.249	.7072	.7302	108.9	2.242	.0623

Elem	Mg2852	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	48.90	1.9440	.0022	1.247	3.719	37.04	2.150	8.691
#1	48.94	1.9386	.0017	1.249	3.732	37.11	2.157	8.728
#2	48.86	1.9494	.0027	1.246	3.707	36.97	2.142	8.653

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5642	13.71	4.9028	2.206	.0132	4.065	1.416	1.428
#1	.5643	13.72	4.8896	2.207	.0124	4.078	1.417	1.428
#2	.5641	13.71	4.9159	2.206	.0141	4.051	1.415	1.428

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	1.368	.0003	1.881
#1	1.364	.0033	1.884
#2	1.371	-.0026	1.879

* N/A
am 3/2/17

Sample Name: K1701739-001A Acquired: 3/1/2017 17:13:50 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2 A=0.05/10mL CICV-1,3 + Sb, Sr 1000ppm

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2020.7	35225.	2486.0
#1	2019.0	35257.	2496.5
#2	2022.4	35193.	2475.6

Sample Name: K1701739-002 Acquired: 3/1/2017 17:16:12 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.847	.0209	.0029	.0564	.00010	-.0757	.0003	.0007
#1	4.851	.0150	.0042	.0557	.00015	-.0752	.0003	.0005
#2	4.844	.0268	.0016	.0570	.00006	-.0763	.0003	.0009

Elem	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.889	.0127	.0039	.0064	.0075	9.800	.0027	.0028
#1	2.884	.0131	.0040	.0067	.0067	9.730	.0034	.0029
#2	2.895	.0123	.0039	.0061	.0082	9.870	.0020	.0027

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.123	.04828	.0020	.0584	.0694	1.096	.0116	2.550
#1	2.114	.04865	.0022	.0579	.0695	1.098	.0142	2.568
#2	2.132	.04791	.0017	.0589	.0693	1.095	.0091	2.533

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019	.4231	.03513	.0029	.0111	.1511	.0591	.0080
#1	.0022	.4381	.03461	.0026	.0113	.1514	.0598	.0078
#2	.0015	.4081	.03566	.0031	.0109	.1508	.0585	.0081

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0078	.0031	16.16
#1	.0080	.0050	16.19
#2	.0076	.0011	16.14

Sample Name: K1701739-002 Acquired: 3/1/2017 17:16:12 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2080.2	37072.	2520.0
#1	2080.0	37068.	2533.7
#2	2080.5	37075.	2506.2

Sample Name: K1701739-003 Acquired: 3/1/2017 17:18:31 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2

Elem	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.70	.0006	.0217	.1515	.00004	-.0564	.0003	.0005
#1	15.73	-.0011	.0225	.1527	.00007	-.0549	.0003	.0006
#2	15.68	.0023	.0209	.1503	.00001	-.0578	.0002	.0004

Elem	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.232	.0669	.0082	.0273	.0275	27.81	.0076	.0162
#1	2.244	.0676	.0077	.0272	.0280	28.00	.0074	.0165
#2	2.220	.0662	.0086	.0275	.0270	27.61	.0078	.0158

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.928	.20643	.0065	.0935	.1634	2.449	.0031	4.533
#1	4.947	.20676	.0066	.0932	.1595	2.457	.0039	4.533
#2	4.909	.20610	.0065	.0938	.1673	2.440	.0023	4.532

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	.5230	.03190	.0009	.0118	.7936	.1205	.0447
#1	.0012	.5337	.03203	.0007	.0120	.7949	.1205	.0448
#2	.0005	.5123	.03177	.0012	.0116	.7922	.1205	.0446

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0426	.0011	29.69
#1	.0429	-.0014	29.85
#2	.0423	.0035	29.53

Sample Name: K1701739-003 Acquired: 3/1/2017 17:18:31 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 2 Test Type: Sample Type:
Comment: EM 030117A 1/2

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2029.3	36451.	2484.4
#1	2040.0	36410.	2476.8
#2	2018.6	36492.	2492.1

Sample Name: KQ1702071-02 Acquired: 3/1/2017 17:20:49 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A K1701750-MB

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0067	.0048	-.0037	-.0003	-.00035	F -.1079	-.0003
#1	.0042	.0023	-.0031	.0001	-.00043	-.1104	-.0003
#2	.0092	.0073	-.0043	-.0006	-.00028	-.1053	-.0002

Elem	Cd2265	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	F .1239	.0011	.0002	.0012	.0015	-.0020
#1	-.0001	.1233	.0016	-.0002	.0007	.0017	.0083
#2	-.0001	.1244	.0006	.0006	.0018	.0014	-.0122

Elem	Pb2203	Li6707	Mg2795	Mn2576	Mo2020	Ni2216	P_1782
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0002	F .0178	-.00005	.0002	-.0006	.0057
#1	.0008	.0014	.0173	-.00007	.0001	-.0009	.0029
#2	-.0004	-.0010	.0184	-.00003	.0003	-.0004	.0085

Elem	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0244	.0012	.0352	.0015	.0346	.00048	.0001
#1	-.0068	.0023	.0376	.0010	.0318	.00059	.0060
#2	.0556	.0001	.0329	.0021	.0374	.00037	-.0058

Elem	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0027	-.0005	-.0002	.0013	.0014	.0039	.0162
#1	-.0026	-.0007	.0000	.0015	.0014	.0059	.0159
#2	-.0029	-.0003	-.0005	.0011	.0014	.0019	.0165

NR-reduced
am 3/2/17

Sample Name: KQ1702071-02 Acquired: 3/1/2017 17:20:49 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A K1701750-MB

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1993.5	35813.	2393.8
#1	1988.1	35723.	2393.1
#2	1998.8	35903.	2394.5

NR
am 3/2/17

Sample Name: KQ1702071-01 Acquired: 3/1/2017 17:23:12 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A K1701750-LCSW

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0073	-.0032	-.0043	.0005	-.00021	-.1091	-.0002	-.0002
#1	.0059	-.0017	-.0050	.0003	-.00015	-.1054	-.0001	-.0002
#2	.0086	-.0048	-.0036	.0006	-.00028	-.1127	-.0003	-.0002

Elem	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0271	.0020	.0001	.0001	-.0005	.0061	-.0033	-.0004
#1	.0272	.0017	-.0004	.0002	-.0009	.0160	-.0023	-.0016
#2	.0270	.0023	.0006	-.0001	.0000	-.0038	-.0044	.0008

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0036	.00010	.0004	-.0004	.0071	.0314	.0056	.4494
#1	.0037	.00005	.0005	-.0006	.0089	.0166	.0017	.4651
#2	.0034	.00016	.0004	-.0002	.0053	.0462	.0096	.4337

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015	.0355	.00003	.0031	-.0020	-.0006	.0005	.0016
#1	.0024	.0403	.00005	-.0018	-.0007	-.0006	.0004	.0013
#2	.0005	.0308	.00000	.0080	-.0033	-.0005	.0006	.0019

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0016	.0053	-.0015
#1	.0015	.0044	-.0024
#2	.0016	.0061	-.0007

NR-redigest
am 3/2/17

Sample Name: KQ1702071-01 Acquired: 3/1/2017 17:23:12 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A K1701750-LCSW

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1996.2	36093.	2381.8
#1	1996.8	36130.	2379.2
#2	1995.6	36056.	2384.4

NR
Gwm 3/2/17

Sample Name: K1701750-001 Acquired: 3/1/2017 17:25:36 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018	-.0040	.0043	.0006	-.00026	-.0095	-.0020	.0005
#1	.0011	-.0033	.0059	.0007	-.00024	-.0139	-.0021	.0005
#2	.0025	-.0047	.0027	.0004	-.00027	-.0051	-.0020	.0004

Elem	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1540	.0018	.0014	-.0006	.0011	.0020	.0092	.0010
#1	.1537	.0015	.0015	-.0008	.0016	.0005	.0096	.0010
#2	.1544	.0020	.0012	-.0004	.0006	.0035	.0087	.0011

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0213	.00016	-.0002	.0019	.0027	.0345	.0035	45.80
#1	.0213	.00011	.0000	.0020	-.0020	.0667	.0051	45.61
#2	.0213	.00021	-.0004	.0017	.0075	.0024	.0018	46.00

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	.0563	.00051	-.0006	.0004	-.0012	.0009	.0024
#1	.0013	.0564	.00050	-.0029	.0013	-.0013	.0009	.0027
#2	.0007	.0563	.00052	.0017	-.0005	-.0010	.0008	.0021

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0023	.0027	.0147
#1	.0023	.0029	.0152
#2	.0022	.0025	.0143

NR
am 3/2/17

Sample Name: K1701750-001 Acquired: 3/1/2017 17:25:36 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2037.5	36897.	2471.2
#1	2038.7	36923.	2466.1
#2	2036.4	36872.	2476.3

NR
am 3/2/17

Sample Name: K1701750-001D Acquired: 3/1/2017 17:27:59 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0011	.0037	-.0008	.0006	-.00022	-.0129	-.0017	.0004
#1	.0022	.0017	.0029	.0007	-.00012	-.0147	-.0018	.0005
#2	-.0044	.0057	-.0045	.0004	-.00032	-.0112	-.0015	.0003

Elem	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0821	.0015	.0008	-.0006	.0000	.0008	.0082	.0005
#1	.0820	.0016	.0009	-.0012	.0009	-.0028	.0081	-.0003
#2	.0823	.0014	.0006	-.0001	-.0008	.0043	.0083	.0013

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0134	-.00008	-.0002	.0015	.0055	-.0047	.0035	38.78
#1	.0135	-.00011	.0004	.0013	.0021	-.0214	.0058	38.80
#2	.0134	-.00005	-.0008	.0018	.0090	.0121	.0013	38.75

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013	.0348	.00035	-.0013	-.0005	-.0012	-.0004	.0007
#1	.0015	.0361	.00038	-.0020	-.0009	-.0012	-.0002	.0006
#2	.0011	.0336	.00031	-.0006	-.0001	-.0012	-.0007	.0008

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0009	.0030	.0076
#1	.0011	.0044	.0110
#2	.0007	.0015	.0043

NR
3/2/17

Sample Name: K1701750-001D Acquired: 3/1/2017 17:27:59 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2051.8	36129.	2413.3
#1	2040.7	36163.	2417.6
#2	2062.8	36095.	2408.9

NR
GMM 3/2/17

Sample Name: K1701750-001S Acquired: 3/1/2017 17:30:21 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027	.0009	-.0016	.0004	-.00022	.0040	-.0018	.0003
#1	-.0003	.0032	-.0029	.0005	-.00021	.0070	-.0018	.0002
#2	.0057	-.0014	-.0004	.0004	-.00022	.0011	-.0017	.0004

Elem	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0214	.0010	.0010	-.0010	-.0016	.0025	.0141	.0010
#1	.0215	.0016	.0009	-.0013	-.0014	-.0018	.0149	.0022
#2	.0213	.0004	.0011	-.0007	-.0019	.0068	.0132	-.0002

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041	-.00002	-.0010	.0028	.0066	.0242	.0048	51.57
#1	.0041	-.00004	-.0006	.0028	.0062	.0728	.0042	51.43
#2	.0040	.00000	-.0014	.0028	.0069	-.0244	.0053	51.71

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013	.0384	-.00011	-.0016	.0004	-.0011	.0002	.0114
#1	.0010	.0451	-.00013	.0008	.0007	-.0010	.0005	.0114
#2	.0016	.0318	-.00010	-.0039	.0002	-.0011	-.0001	.0114

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0108	-.0018	.0112
#1	.0110	-.0033	.0161
#2	.0105	-.0002	.0062

NR
am 3/2/17

Sample Name: K1701750-001S Acquired: 3/1/2017 17:30:21 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2034.5	36701.	2472.9
#1	2036.4	36643.	2471.1
#2	2032.6	36759.	2474.6

NR
GWM 3/2/17

Sample Name: CCVB Acquired: 3/1/2017 17:32:44 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.597	10.59	.0015	.9885	10.08	-.00012	-.0157	.0000
Stddev	.071	.04	.0010	.0214	.12	.00005	.0031	.000
%RSD	.9384	.3382	70.89	2.165	1.179	44.394	20.11	432.3
#1	7.648	10.62	.0007	.9734	9.992	-.00008	-.0134	.0000
#2	7.547	10.57	.0022	1.004	10.16	-.00015	-.0179	-.0001
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	None	None
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	9.951	9.624	-.0003	.0009	.0001	.0005	9.909
Stddev	.000	.018	.070	.0003	.0005	.0003	.0007	.083
%RSD	3954.	.1771	.7226	97.02	59.35	206.6	144.0	.8379
#1	-.0002	9.938	9.575	-.0005	.0005	.0004	.0000	9.850
#2	.0002	9.963	9.673	-.0001	.0012	-.0001	.0010	9.967
Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0016	.9495	9.960	9.243	9.305	.96613	.9646	-.0004
Stddev	.0002	.0003	.055	.064	.030	.00236	.0014	.0013
%RSD	15.35	.0313	.5547	.6939	.3261	.24418	.1449	348.3
#1	-.0018	.9497	9.999	9.198	9.326	.96780	.9656	-.0013
#2	-.0014	.9493	9.921	9.289	9.283	.96446	.9636	.0005
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass	None
Value								
Range								

Sample Name: CCVB Acquired: 3/1/2017 17:32:44 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	10.36	9.580	.0074	F 14.10	.0011	9.264	.98614
Stddev	.0006	.07	.054	.0002	.82	.0003	.007	.00819
%RSD	519.3	.6424	.5658	2.151	5.811	25.06	.0723	.83019
#1	.0003	10.31	9.542	.0075	14.67	.0009	9.259	.98035
#2	-.0005	10.40	9.619	.0073	13.52	.0013	9.269	.99193
Check ?	None	Chk Pass	Chk Pass	None	Chk Fail	None	Chk Pass	Chk Pass
Value					10.00			
Range					10.44%			

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	-.0001	-.0007	.0004	.0002	.0000	1.060	.9807
Stddev	.0002	.0001	.0000	.0007	.0002	.0002	.022	.0353
%RSD	74.83	50.95	3.796	167.7	83.90	1189.	2.101	3.602
#1	-.0004	-.0002	-.0007	-.0001	.0003	-.0002	1.045	.9557
#2	-.0001	-.0001	-.0007	.0010	.0001	.0002	1.076	1.006
Check ?	None	None	None	None	None	None	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2047.4	35118.	2379.4
Stddev	11.2	17.	16.3
%RSD	.54749	.04965	.68543
#1	2039.5	35106.	2390.9
#2	2055.3	35131.	2367.8

Sample Name: CCVA Acquired: 3/1/2017 17:35:13 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2615	.2845	.2458	.2480	.2558	.24970	F .1501	.2593
Stddev	.0014	.0028	.0054	.0039	.0018	.00071	.0055	.0003
%RSD	.5273	.9905	2.178	1.560	.6852	.28387	3.694	.1314
#1	.2625	.2865	.2496	.2453	.2571	.25021	.1461	.2596
#2	.2606	.2825	.2420	.2507	.2546	.24920	.1540	.2591
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Fail	Chk Pass
Value							.2500	
Range							-10.44%	

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2495	.4972	.4906	.2535	.2583	.2572	.2540	.2557
Stddev	.0004	.0100	.0002	.0005	.0003	.0009	.0011	.0008
%RSD	.1533	2.015	.0370	.1897	.1320	.3324	.4211	.3116
#1	.2498	.4901	.4905	.2538	.2580	.2566	.2532	.2551
#2	.2492	.5043	.4907	.2531	.2585	.2578	.2547	.2563
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2494	.0005	.2645	.2380	.2349	.24555	.2430	.2453
Stddev	.0021	.0008	.0114	.0001	.0010	.00088	.0034	.0006
%RSD	.8579	147.6	4.295	.0523	.4124	.35932	1.393	.2258
#1	.2509	.0010	.2725	.2381	.2343	.24493	.2406	.2457
#2	.2479	.0000	.2565	.2380	.2356	.24618	.2454	.2449
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass	None	Chk Pass
Value								
Range								

Sample Name: CCVA Acquired: 3/1/2017 17:35:13 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2529	-.0006	2.329	.2525	.6942	.2498	.2555	.00005
Stddev	.0003	.0030	.034	.0019	.0241	.0013	.0024	.00007
%RSD	.1316	470.3	1.466	.7561	3.475	.5307	.9224	127.37
#1	.2532	-.0027	2.305	.2538	.7112	.2488	.2539	.00001
#2	.2527	.0015	2.353	.2511	.6771	.2507	.2572	.00010
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass	None	None
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2649	.2539	.2557	.2516	.2494	.2413	.0042	-.0123
Stddev	.0043	.0015	.0005	.0019	.0001	.0005	.0001	.0080
%RSD	1.618	.6076	.1943	.7480	.0317	.2034	2.730	65.58
#1	.2680	.2529	.2560	.2529	.2495	.2416	.0041	-.0066
#2	.2619	.2550	.2553	.2502	.2494	.2409	.0042	-.0179
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2043.8	35998.	2439.0
Stddev	2.3	209.	16.0
%RSD	.11101	.58105	.65472
#1	2042.2	35850.	2427.7
#2	2045.4	36146.	2450.3

Sample Name: CCB Acquired: 3/1/2017 17:37:30 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0037	-.0016	.0025	.0000	.0003	-.00005	F -.0960
Stddev	.0020	.0018	.0022	.002	.0000	.00003	.0003
%RSD	54.32	109.9	87.12	316800.	2.033	57.417	.2935
#1	-.0051	-.0029	.0010	-.0015	.0003	-.00003	-.0962
#2	-.0022	-.0004	.0041	.0015	.0003	-.00007	-.0958
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.0050
Low Limit							-.0050

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0003	.0092	-.0002	.0000	.0004	-.0008
Stddev	.0000	.0003	.0006	.0000	.0004	.0006	.0007
%RSD	22.45	103.0	6.693	16.59	2193.	141.7	95.27
#1	.0001	.0001	.0096	-.0002	.0003	.0009	-.0003
#2	.0001	.0005	.0087	-.0002	-.0003	.0000	-.0013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cu3273	Fe2599	Pb2203	Li6707	Mg2790	Mg2795	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0010	-.0062	-.0009	-.0001	.0126	-.0001	-.0020
Stddev	.0014	.0116	.0025	.0032	.0124	.0002	.0024
%RSD	143.9	187.1	290.3	4952.	99.04	391.5	122.6
#1	-.0020	.0020	.0009	-.0023	.0214	-.0002	-.0037
#2	.0000	-.0144	-.0026	.0022	.0038	.0001	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 3/1/2017 17:37:30 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Mn2576	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00008	.0013	.0004	-.0010	-.0017	.0307	.0020
Stddev	.00009	.0027	.0001	.0009	.0004	.0459	.0004
%RSD	107.97	210.8	23.97	85.07	21.82	149.4	21.85
#1	-.00002	-.0006	.0005	-.0004	-.0014	.0632	.0017
#2	-.00015	.0032	.0004	-.0017	-.0020	-.0017	.0023
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .2152	.0007	.0362	-.00004	.0012	-.0007	-.0006
Stddev	.0137	.0013	.0029	.00005	.0011	.0014	.0000
%RSD	6.371	175.2	7.974	114.27	95.61	208.0	6.520
#1	.2055	.0016	.0382	-.00008	.0019	.0003	-.0007
#2	.2249	-.0002	.0341	-.00001	.0004	-.0016	-.0006
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.2000						
Low Limit	-.2000						

Elem	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	-.0003	-.0002	-.0011	-.0128
Stddev	.0002	.0001	.0001	.0006	.0065
%RSD	204.2	23.40	77.66	54.68	50.81
#1	-.0002	-.0004	-.0001	-.0015	-.0174
#2	.0000	-.0003	-.0003	-.0007	-.0082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB Acquired: 3/1/2017 17:37:30 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2063.6	36469.	2460.1
Stddev	6.3	113.	17.3
%RSD	.30602	.31118	.70455
#1	2059.1	36549.	2472.4
#2	2068.0	36388.	2447.9

Sample Name: K1701750-002 Acquired: 3/1/2017 17:39:54 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047	.0002	-.0028	-.0001	-.00026	.0007	-.0032	.0004
#1	.0084	.0027	-.0052	-.0001	-.00020	.0001	-.0032	.0003
#2	.0011	-.0023	-.0005	-.0001	-.00032	.0014	-.0032	.0004

Elem	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0466	.0013	.0006	.0000	-.0007	.0024	.0119	.0004
#1	.0465	.0017	.0004	.0001	-.0009	-.0019	.0116	.0008
#2	.0466	.0009	.0008	-.0002	-.0006	.0067	.0122	.0000

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057	.00003	.0001	.0020	.0093	.0299	.0081	49.59
#1	.0055	-.00003	.0001	.0020	.0078	.0481	.0103	49.51
#2	.0058	.00008	.0001	.0020	.0107	.0117	.0059	49.68

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015	.1687	.00000	-.0011	-.0001	-.0013	.0006	.0088
#1	.0013	.1739	.00014	.0003	.0002	-.0014	.0005	.0090
#2	.0017	.1635	-.00014	-.0025	-.0004	-.0012	.0006	.0087

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0087	.0020	.0062
#1	.0088	-.0001	.0042
#2	.0086	.0040	.0082

NR
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Sample Name: K1701750-002 Acquired: 3/1/2017 17:39:54 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2049.0	36701.	2492.0
#1	2047.9	36648.	2493.7
#2	2050.2	36755.	2490.3

NR
GM 3/2/17

Sample Name: K1701750-003 Acquired: 3/1/2017 17:42:17 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015	.0002	-.0046	.0000	-.00030	-.0763	-.0002	.0001
#1	.0010	.0011	-.0055	.0004	-.00013	-.0770	-.0004	.0000
#2	.0020	-.0007	-.0037	-.0004	-.00046	-.0756	-.0001	.0002

Elem	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0181	.0001	.0003	.0002	.0006	.0028	.0007	.0006
#1	.0180	-.0002	.0006	.0002	-.0003	.0018	.0004	-.0002
#2	.0182	.0004	.0001	.0002	.0015	.0039	.0011	.0014

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029	.00000	-.0003	-.0001	.0109	-.0230	.0015	8.262
#1	.0028	-.00006	-.0006	-.0003	.0106	-.0485	.0030	8.310
#2	.0030	.00005	-.0001	.0001	.0112	.0024	.0000	8.214

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	.5081	.00002	.0014	-.0003	-.0010	.0002	.0037
#1	.0009	.5028	-.00009	.0000	-.0008	-.0012	-.0004	.0039
#2	.0009	.5134	.00013	.0027	.0001	-.0009	.0008	.0035

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0035	.0030	.0576
#1	.0035	-.0002	.0528
#2	.0035	.0061	.0624

NR
Cwm 3/2/17

Sample Name: K1701750-003 Acquired: 3/1/2017 17:42:17 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2019.8	36419.	2453.1
#1	2014.7	36373.	2460.7
#2	2024.8	36465.	2445.4

NR
AM 3/2/17

Sample Name: K1701750-004 Acquired: 3/1/2017 17:44:40 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038	.0022	-.0041	.0004	-.00006	-.0874	-.0001	.0001
#1	.0047	.0074	.0001	.0006	-.00001	-.0873	-.0002	.0001
#2	.0029	-.0030	-.0084	.0002	-.00011	-.0875	.0001	.0001

Elem	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0614	.0008	.0000	-.0002	-.0007	.0081	.0015	.0007
#1	.0615	.0008	.0001	-.0002	-.0016	.0098	.0016	.0001
#2	.0613	.0008	-.0001	-.0002	.0002	.0064	.0015	.0014

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0063	.00003	-.0003	.0006	.0142	.0437	-.0047	8.986
#1	.0062	-.00003	-.0002	.0003	.0156	.0189	-.0080	9.028
#2	.0064	.00010	-.0005	.0008	.0127	.0685	-.0014	8.943

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	.5525	.00009	-.0007	-.0012	-.0012	.0008	.0121
#1	.0006	.5535	.00000	.0015	-.0012	-.0011	.0002	.0120
#2	.0011	.5515	.00017	-.0029	-.0012	-.0012	.0013	.0123

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0117	.0017	.0663
#1	.0115	.0017	.0662
#2	.0119	.0016	.0663

NR
am 3/2/17

Sample Name: K1701750-004 Acquired: 3/1/2017 17:44:40 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2023.3	36771.	2447.0
#1	2020.9	36666.	2447.9
#2	2025.8	36876.	2446.0

NR
GW 3/2/17

Sample Name: K1701750-005 Acquired: 3/1/2017 17:47:04 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0054	.0018	-.0011	.0012	-.00022	-.0918	-.0002	-.0001
#1	.0062	.0001	.0009	.0015	-.00022	-.0941	-.0002	-.0001
#2	.0046	.0035	-.0032	.0009	-.00022	-.0896	-.0002	-.0001

Elem	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0586	.0011	.0006	.0000	-.0006	.0089	.0009	-.0007
#1	.0588	.0014	.0008	.0003	-.0007	.0173	.0013	-.0010
#2	.0584	.0008	.0005	-.0002	-.0005	.0006	.0005	-.0004

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0105	.00014	-.0007	.0003	.0131	.0618	.0060	9.130
#1	.0106	.00009	-.0003	.0002	.0133	.0737	.0122	9.178
#2	.0104	.00019	-.0010	.0004	.0129	.0498	-.0001	9.081

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014	.5882	.00003	-.0016	-.0001	-.0010	.0000	.0110
#1	.0010	.5934	-.00002	-.0011	.0001	-.0013	.0004	.0111
#2	.0019	.5831	.00009	-.0021	-.0003	-.0008	-.0005	.0108

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0105	.0000	.0653
#1	.0107	-.0004	.0676
#2	.0104	.0003	.0629

NR
am 3/2/17

Sample Name: K1701750-005 Acquired: 3/1/2017 17:47:04 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: EM 030117A

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2024.0	36523.	2431.2
#1	2025.1	36540.	2438.7
#2	2022.8	36506.	2423.7

NR
am 3/2/17

Sample Name: KQ1701566-02 Acquired: 3/1/2017 17:49:27 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5 K1701313-MB1

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0027	-.0006	-.0010	.0003	-.00004	-.0960	.0000	.0001
#1	-.0002	.0002	.0010	.0000	-.00004	-.0969	.0001	.0003
#2	-.0053	-.0015	-.0031	.0007	-.00003	-.0951	-.0001	-.0001

Elem	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0142	-.0001	.0008	-.0002	-.0001	.0088	-.0018	.0007
#1	.0142	.0001	.0010	.0005	-.0009	.0194	-.0017	.0005
#2	.0143	-.0002	.0006	-.0010	.0006	-.0018	-.0018	.0009

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021	.00001	-.0001	.0002	.0008	.0188	.0078	.2295
#1	.0019	-.00009	-.0006	.0000	.0016	.0110	.0102	.2551
#2	.0023	.00010	.0003	.0005	.0001	.0265	.0055	.2039

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	.0758	-.00012	-.0006	-.0001	-.0012	.0001	.0005
#1	.0010	.0781	-.00010	-.0005	-.0011	-.0010	-.0004	.0004
#2	.0006	.0736	-.00015	-.0008	.0008	-.0014	.0006	.0007

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0001	.0014	-.0030
#1	-.0001	.0011	.0008
#2	.0003	.0017	-.0068

Sample Name: KQ1701566-02 Acquired: 3/1/2017 17:49:27 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5 K1701313-MB1

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2072.1	36407.	2438.8
#1	2073.1	36554.	2436.0
#2	2071.1	36260.	2441.5

Sample Name: KQ1701566-01 Acquired: 3/1/2017 17:51:50 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5 K1701313-LCSE1

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0033	-.0085	.9660	1.968	-.00002	-.0990	.2019	.1930
#1	-.0015	-.0061	.9681	1.972	-.00001	-.0966	.2013	.1928
#2	-.0051	-.0109	.9638	1.964	-.00003	-.1014	.2026	.1932

Elem	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0220	.9936	.0007	.2011	.1964	.0008	.9772	.0009
#1	.0219	.9972	.0008	.2007	.1958	-.0012	.9764	.0003
#2	.0221	.9901	.0005	.2015	.1970	.0027	.9781	.0016

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028	.00004	.0006	.1969	.0055	.0096	.1924	.1627
#1	.0027	.00002	.0003	.1964	.0017	-.0004	.1946	.1607
#2	.0029	.00006	.0009	.1975	.0094	.0195	.1902	.1647

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1936	.0714	-.00008	.0011	.0001	-.0012	.0014	1.931
#1	.1931	.0718	.00003	.0040	.0010	-.0011	.0012	1.932
#2	.1941	.0710	-.00019	-.0018	-.0009	-.0014	.0017	1.930

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	1.849	.0033	-.0167
#1	1.849	.0025	-.0157
#2	1.850	.0041	-.0177

Sample Name: KQ1701566-01 Acquired: 3/1/2017 17:51:50 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5 K1701313-LCSE1

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2069.1	36316.	2403.5
#1	2068.5	36306.	2399.6
#2	2069.6	36325.	2407.5

Sample Name: K1701313-003 Acquired: 3/1/2017 17:54:09 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0125	.0019	-.0028	.0429	.00007	-.0290	.0003	.0001
#1	.0143	.0014	-.0018	.0422	.00051	-.0259	.0003	-.0001
#2	.0107	.0023	-.0039	.0436	-.00036	-.0322	.0004	.0002

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	318.6	.0011	.0001	-.0015	.0015	.0151	-.0042	.0028
#1	318.4	.0013	.0000	-.0012	.0011	.0216	-.0056	.0043
#2	318.7	.0008	.0001	-.0018	.0018	.0085	-.0029	.0013

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0035	.00064	.0056	-.0006	.0061	17.34	.0063	.2104
#1	.0036	.00106	.0055	-.0010	.0024	17.40	.0130	.1979
#2	.0034	.00023	.0057	-.0002	.0099	17.29	-.0003	.2228

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018	203.8	.28375	-.0007	-.0001	-.0029	.0004	.0008
#1	.0021	205.7	.28329	-.0009	-.0001	-.0028	.0012	.0011
#2	.0015	201.9	.28421	-.0004	.0000	-.0031	-.0004	.0006

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0005	.0061	21.13
#1	.0006	.0048	21.16
#2	.0003	.0073	21.11

Sample Name: K1701313-003 Acquired: 3/1/2017 17:54:09 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1871.5	32611.	2313.6
#1	1870.2	32610.	2327.4
#2	1872.8	32612.	2299.9

Sample Name: K1701313-003D Acquired: 3/1/2017 17:56:37 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0083	.0029	-.0042	.0419	-.00006	-.0284	.0001	.0001
#1	.0069	-.0007	-.0072	.0415	.00006	-.0253	.0000	.0000
#2	.0096	.0064	-.0012	.0422	-.00018	-.0315	.0001	.0002

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	318.1	-.0006	.0000	-.0010	.0002	-.0011	-.0042	.0047
#1	317.9	-.0001	.0002	-.0008	.0000	-.0059	-.0016	.0039
#2	318.4	-.0012	-.0001	-.0012	.0003	.0036	-.0068	.0056

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033	-.00008	.0063	-.0005	.0088	18.06	.0029	.1768
#1	.0031	-.00014	.0066	-.0002	.0084	18.04	.0020	.1803
#2	.0034	-.00001	.0060	-.0007	.0093	18.08	.0038	.1733

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	207.8	.28595	.0032	-.0002	-.0033	.0002	.0006
#1	.0002	207.2	.28646	-.0010	-.0012	-.0033	.0008	.0007
#2	.0008	208.4	.28545	.0073	.0008	-.0032	-.0004	.0006

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0003	.0076	20.93
#1	.0001	.0070	20.93
#2	.0004	.0083	20.93

Sample Name: K1701313-003D Acquired: 3/1/2017 17:56:37 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1867.9	32566.	2376.8
#1	1870.3	32633.	2377.9
#2	1865.6	32499.	2375.7

Sample Name: K1701313-003S Acquired: 3/1/2017 17:59:06 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0029	-.0038	.9139	1.995	-.00013	-.0390	.1912	.1834
#1	-.0025	-.0053	.9177	1.992	-.00011	-.0392	.1912	.1837
#2	-.0033	-.0023	.9101	1.997	-.00015	-.0387	.1912	.1832

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	316.3	.9528	.0003	.1903	.1796	-.0012	.8946	.0033
#1	316.2	.9551	.0000	.1909	.1788	-.0041	.8955	.0050
#2	316.4	.9505	.0005	.1897	.1804	.0017	.8938	.0016

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026	.00008	.0060	.1823	.0018	18.13	.1336	.1819
#1	.0025	-.00008	.0064	.1822	-.0005	18.14	.1367	.1955
#2	.0027	.00023	.0057	.1823	.0040	18.12	.1305	.1684

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1734	209.9	.28575	.0039	.0008	-.0030	.0016	1.837
#1	.1723	209.7	.28616	.0049	.0001	-.0028	.0016	1.836
#2	.1746	210.1	.28535	.0029	.0014	-.0031	.0016	1.838

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	1.689	.0072	23.09
#1	1.686	.0075	23.06
#2	1.691	.0069	23.12

Sample Name: K1701313-003S Acquired: 3/1/2017 17:59:06 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1858.7**	**32818.**	**2388.8**
#1	1862.5	32790.	2388.0
#2	1854.8	32847.	2389.7

Sample Name: K1701313-003A Acquired: 3/1/2017 18:01:32 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5 A=0.1/10mL MET2-77-K

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0316	-.0401	4.713	10.05	-.00001	-.0327	.9876	.9505
#1	-.0324	-.0426	4.722	10.10	.00018	-.0364	.9864	.9486
#2	-.0307	-.0376	4.703	9.996	-.00019	-.0290	.9887	.9524

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	312.8	4.913	.0011	.9878	.9236	.0057	4.643	.0042
#1	312.7	4.911	.0014	.9883	.9190	.0110	4.639	.0046
#2	313.0	4.914	.0008	.9874	.9281	.0004	4.648	.0038

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032	.00013	.0069	.9502	.0055	17.90	.8946	.1550
#1	.0032	.00019	.0066	.9499	.0074	17.85	.8900	.1542
#2	.0032	.00006	.0073	.9504	.0036	17.94	.8993	.1558

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8902	208.6	.28417	-.0017	-.0012	-.0032	.0055	9.383
#1	.8860	205.3	.28307	-.0037	-.0006	-.0030	.0064	9.369
#2	.8944	211.9	.28528	.0003	-.0018	-.0034	.0046	9.396

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	8.317	.0103	21.19
#1	8.309	.0136	21.18
#2	8.324	.0070	21.19

Sample Name: K1701313-003A Acquired: 3/1/2017 18:01:32 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5 A=0.1/10mL MET2-77-K

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1837.9	32478.	2372.6
#1	1840.1	32431.	2369.0
#2	1835.7	32526.	2376.2

Sample Name: CCVB Acquired: 3/1/2017 18:03:57 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.668	11.01	.0005	.9883	10.21	.00003	-.0687	.0002
Stddev	.023	.00	.0024	.0071	.08	.00003	.0007	.0000
%RSD	.3006	.0386	472.9	.7182	.7582	99.754	.9820	10.74
#1	7.652	11.01	.0022	.9833	10.26	.00005	-.0682	.0002
#2	7.684	11.01	-.0012	.9933	10.15	.00001	-.0691	.0002
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	None	None
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	9.766	9.573	.0000	.0002	-.0003	.0005	9.813
Stddev	.0002	.030	.006	.001	.0000	.0005	.0013	.032
%RSD	86.96	.3076	.0611	1420.	6.669	193.2	244.4	.3284
#1	.0003	9.745	9.577	.0004	.0002	-.0006	.0015	9.790
#2	.0001	9.787	9.569	-.0005	.0002	.0001	-.0004	9.835
Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017	.9782	9.951	9.150	9.535	.95934	.9697	-.0011
Stddev	.0001	.0080	.047	.028	.104	.00170	.0077	.0002
%RSD	3.707	.8162	.4686	.3027	1.087	.17715	.7965	17.36
#1	.0016	.9725	9.984	9.170	9.462	.95813	.9642	-.0013
#2	.0017	.9838	9.918	9.131	9.608	.96054	.9752	-.0010
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass	None
Value								
Range								

Sample Name: CCVB Acquired: 3/1/2017 18:03:57 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	10.38	9.863	.0040	9.730	.0010	9.610	.99008
Stddev	.0004	.04	.106	.0046	.150	.0003	.062	.00027
%RSD	70.54	.3687	1.075	114.8	1.537	27.98	.6408	.02740
#1	.0008	10.35	9.788	.0072	9.625	.0012	9.566	.99027
#2	.0003	10.41	9.938	.0007	9.836	.0008	9.653	.98988
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0023	.0004	-.0010	.0000	.0003	.0002	1.060	.9812
Stddev	.0009	.0016	.0002	.0001	.0002	.0001	.001	.0046
%RSD	39.24	378.8	18.01	961.0	64.66	73.84	.0567	.4713
#1	-.0029	.0016	-.0011	.0001	.0001	.0001	1.060	.9844
#2	-.0017	-.0007	-.0009	-.0001	.0004	.0003	1.060	.9779
Check ?	None	None	None	None	None	None	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2028.6	35464.	2439.4
Stddev	.2	28.	23.2
%RSD	.01108	.07886	.95214
#1	2028.7	35444.	2422.9
#2	2028.4	35483.	2455.8

Sample Name: CCVA Acquired: 3/1/2017 18:06:26 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2644	.2964	.2566	.2553	.2592	.25312	F .1204	.2586
Stddev	.0006	.0052	.0012	.0011	.0003	.00096	.0006	.0001
%RSD	.2316	1.764	.4698	.4123	.1028	.37879	.4615	.0415
#1	.2649	.2927	.2574	.2546	.2593	.25244	.1200	.2587
#2	.2640	.3001	.2557	.2560	.2590	.25379	.1208	.2586
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Fail	Chk Pass
Value							.2500	
Range							-10.44%	

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2492	.5002	.4971	.2534	.2577	.2580	.2601	.2621
Stddev	.0014	.0029	.0007	.0022	.0000	.0014	.0011	.0073
%RSD	.5698	.5857	.1328	.8831	.0071	.5400	.4417	2.800
#1	.2502	.5023	.4976	.2550	.2577	.2590	.2593	.2673
#2	.2482	.4982	.4966	.2518	.2577	.2570	.2609	.2569
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2514	-.0006	.2925	.2406	.2395	.24497	.2360	.2469
Stddev	.0027	.0005	.0387	.0002	.0001	.00161	.0043	.0003
%RSD	1.081	90.61	13.24	.0803	.0436	.65723	1.809	.1254
#1	.2494	-.0002	.3199	.2408	.2394	.24611	.2390	.2471
#2	.2533	-.0010	.2651	.2405	.2395	.24383	.2330	.2466
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass	None	Chk Pass
Value								
Range								

Sample Name: CCVA Acquired: 3/1/2017 18:06:26 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2533	-.0035	2.357	.2574	.2073	.2533	.3085	-.00001
Stddev	.0006	.0026	.001	.0040	.0277	.0018	.0014	.00004
%RSD	.2465	75.29	.0558	1.550	13.34	.7148	.4614	486.40
#1	.2537	-.0016	2.358	.2602	.1878	.2521	.3095	.00002
#2	.2528	-.0053	2.357	.2546	.2269	.2546	.3075	-.00004
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass	None	None
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2615	.2551	.2567	.2521	.2491	.2443	.0034	-.0133
Stddev	.0024	.0007	.0007	.0010	.0006	.0010	.0030	.0013
%RSD	.9364	.2899	.2665	.3977	.2321	.3927	87.75	9.497
#1	.2632	.2545	.2572	.2528	.2495	.2436	.0013	-.0142
#2	.2597	.2556	.2562	.2514	.2487	.2449	.0056	-.0124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2062.1	36664.	2437.3
Stddev	1.6	274.	.8
%RSD	.07924	.74619	.03092
#1	2060.9	36471.	2437.8
#2	2063.3	36858.	2436.7

Sample Name: CCB Acquired: 3/1/2017 18:08:43 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0025	.0033	-.0010	.0010	-.00004	F -.1287
Stddev	.001	.0017	.0037	.0011	.0011	.00006	.0025
%RSD	6238.	69.25	112.8	114.5	111.2	153.83	1.977
#1	.0007	.0037	.0059	-.0018	.0002	.00000	-.1305
#2	-.0008	.0013	.0007	-.0002	.0018	-.00009	-.1269
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.0050
Low Limit							-.0050

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0002	.0199	.0062	.0002	.0007	-.0008
Stddev	.000	.0002	.0222	.0084	.0003	.0005	.0000
%RSD	6134.	91.40	111.9	135.5	139.2	74.00	3.113
#1	.0000	.0003	.0356	.0003	.0000	.0011	-.0008
#2	.0000	.0001	.0041	.0121	.0004	.0003	-.0008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cu3273	Fe2599	Pb2203	Li6707	Mg2790	Mg2795	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	-.0115	-.0008	.0004	-.0156	.0002	-.0002
Stddev	.0000	.0054	.0013	.0026	.0389	.0004	.0039
%RSD	19.97	46.77	169.5	628.9	248.9	168.2	2180.
#1	-.0001	-.0153	.0002	.0023	-.0431	.0000	-.0029
#2	.0000	-.0077	-.0017	-.0014	.0119	.0005	.0026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 3/1/2017 18:08:43 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Mn2576	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00004	.0033	.0001	-.0001	-.0020	.0057	.0044
Stddev	.00014	.0048	.0004	.0004	.0020	.0135	.0005
%RSD	338.54	145.6	421.5	444.9	97.61	236.5	11.95
#1	.00006	-.0001	-.0002	.0002	-.0006	.0152	.0047
#2	-.00014	.0067	.0004	-.0004	-.0034	-.0038	.0040
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0650	.0013	.0670	-.00001	.0038	-.0004	-.0013
Stddev	.0070	.0005	.0076	.00008	.0051	.0010	.0001
%RSD	10.82	34.12	11.34	1142.4	134.1	248.9	8.566
#1	.0699	.0010	.0617	-.00006	.0075	-.0011	-.0012
#2	.0600	.0017	.0724	.00005	.0002	.0003	-.0014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0003	-.0003	-.0013	-.0188
Stddev	.0002	.0001	.0002	.0033	.0083
%RSD	137.3	23.18	62.62	247.5	44.26
#1	.0000	.0003	-.0001	.0010	-.0129
#2	.0003	.0002	-.0004	-.0036	-.0247
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB Acquired: 3/1/2017 18:08:43 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2052.0	36348.	2429.3
Stddev	2.0	166.	26.8
%RSD	.09617	.45634	1.1020
#1	2050.6	36230.	2410.4
#2	2053.4	36465.	2448.2

Sample Name: KQ1701569-02 Acquired: 3/1/2017 18:11:07 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5 K1701313-MB2

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022	-.0005	-.0030	.0005	-.00014	-.0842	.0000	.0001
#1	.0034	-.0030	-.0028	.0005	-.00025	-.0844	.0001	.0000
#2	.0010	.0020	-.0032	.0006	-.00004	-.0841	.0000	.0001

Elem	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0560	.0006	.0007	.0003	-.0003	.0077	-.0013	-.0004
#1	.0557	.0002	.0009	.0004	.0001	-.0069	-.0012	-.0005
#2	.0564	.0011	.0005	.0003	-.0006	.0224	-.0013	-.0003

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0036	.00002	.0002	.0003	.0043	.0255	.0029	.1199
#1	.0037	.00014	.0003	.0001	.0000	.0502	.0072	.1286
#2	.0035	-.00010	.0001	.0005	.0085	.0008	-.0014	.1112

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013	310.1	.00008	.0009	-.0001	-.0033	-.0002	.0007
#1	.0010	310.0	.00011	-.0006	-.0004	-.0032	.0000	.0007
#2	.0015	310.2	.00004	.0024	.0002	-.0035	-.0003	.0007

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	.0008	.0062	-.0109
#1	.0010	.0065	-.0089
#2	.0007	.0058	-.0129

Sample Name: KQ1701569-02 Acquired: 3/1/2017 18:11:07 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5 K1701313-MB2

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1917.8	33299.	2427.2
#1	1921.2	33269.	2432.2
#2	1914.4	33330.	2422.2

Sample Name: KQ1701569-01 Acquired: 3/1/2017 18:13:36 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5 K1701313-LCSE2

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0093	-.0088	.9223	1.964	-.00004	.4724	.1980	.1885
#1	.0059	-.0070	.9185	1.977	-.00013	.4729	.1975	.1883
#2	.0126	-.0107	.9262	1.950	.00005	.4719	.1984	.1888

Elem	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0597	.9836	.0010	.1906	.1780	-.0046	.9096	.0030
#1	.0598	.9853	.0010	.1911	.1788	-.0013	.9094	.0020
#2	.0597	.9819	.0010	.1900	.1771	-.0078	.9098	.0040

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039	.00018	-.0002	.1865	.0100	.0819	.1802	.0806
#1	.0039	.00027	.0001	.1862	.0077	.0575	.1822	.0707
#2	.0039	.00009	-.0005	.1869	.0123	.1062	.1782	.0905

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1722	295.6	-.00003	.0031	.0002	-.0032	.0011	1.930
#1	.1729	295.2	.00006	.0030	-.0006	-.0032	.0015	1.928
#2	.1714	296.1	-.00012	.0031	.0010	-.0032	.0008	1.932

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	1.729	.0042	-.0071
#1	1.729	.0034	-.0015
#2	1.729	.0050	-.0126

Sample Name: KQ1701569-01 Acquired: 3/1/2017 18:13:36 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5 K1701313-LCSE2

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1909.8	32870.	2343.8
#1	1914.1	32778.	2339.2
#2	1905.5	32962.	2348.4

Sample Name: K1701313-002 Acquired: 3/1/2017 18:16:00 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0104	-.0041	-.0035	.0232	-.00005	.4387	.0017	.0018
#1	-.0065	-.0030	-.0052	.0235	.00001	.4267	.0018	.0018
#2	-.0142	-.0052	-.0018	.0229	-.00011	.4507	.0017	.0018

Elem	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.847	.0000	.0008	.0140	.0115	.0360	.0021	.0004
#1	4.834	.0003	.0007	.0133	.0117	.0335	.0000	.0015
#2	4.861	-.0004	.0010	.0147	.0113	.0384	.0042	-.0007

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9272	.05455	-.0008	.0029	.1227	.2380	.0004	.4924
#1	.9242	.05434	-.0009	.0030	.1263	.2630	.0018	.4960
#2	.9302	.05477	-.0006	.0029	.1190	.2130	-.0009	.4887

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017	295.2	.04281	.0002	-.0008	-.0031	.0009	13.55
#1	.0021	297.2	.04284	.0031	-.0011	-.0030	.0007	13.57
#2	.0013	293.3	.04278	-.0027	-.0005	-.0032	.0011	13.52

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	>9.000	.0019	.0271
#1	11.62	-.0008	.0346
#2	11.64	.0047	.0197

Sample Name: K1701313-002 Acquired: 3/1/2017 18:16:00 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1902.9	32755.	2386.5
#1	1899.4	32840.	2395.6
#2	1906.4	32670.	2377.4

Sample Name: K1701313-002D Acquired: 3/1/2017 18:18:25 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0128	-.0024	-.0047	.0239	-.00006	.4221	.0017	.0019
#1	-.0141	-.0015	-.0052	.0245	-.00017	.4233	.0018	.0021
#2	-.0114	-.0033	-.0043	.0233	.00005	.4209	.0016	.0016

Elem	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.776	.0005	.0009	.0128	.0117	.0261	.0023	.0003
#1	4.758	.0008	.0010	.0127	.0123	.0344	.0053	-.0003
#2	4.795	.0003	.0008	.0129	.0111	.0179	-.0007	.0009

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9136	.05391	-.0003	.0026	.1262	.2417	.0032	.4502
#1	.9100	.05407	-.0005	.0028	.1271	.2634	.0043	.4440
#2	.9172	.05375	.0000	.0023	.1253	.2199	.0020	.4564

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	287.6	.04227	-.0014	.0000	-.0024	-.0004	13.26
#1	.0002	288.8	.04231	-.0046	-.0006	-.0025	-.0007	13.25
#2	.0002	286.4	.04223	.0018	.0006	-.0022	-.0001	13.28

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	>9.000	.0065	.0330
#1	11.50	.0036	.0307
#2	11.47	.0095	.0353

Sample Name: K1701313-002D Acquired: 3/1/2017 18:18:25 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1909.1	33068.	2366.1
#1	1912.4	32970.	2366.9
#2	1905.8	33167.	2365.2

Sample Name: K1701313-002S Acquired: 3/1/2017 18:20:51 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0350	-.0146	.9472	2.012	-.00003	.4919	.2014	.1927
#1	-.0368	-.0106	.9518	2.007	-.00001	.4868	.2009	.1927
#2	-.0331	-.0186	.9426	2.017	-.00005	.4970	.2019	.1927

Elem	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.966	.9965	.0011	.2063	.1962	.0271	.9201	.0012
#1	4.966	.9971	.0012	.2051	.1964	.0286	.9231	.0002
#2	4.966	.9960	.0011	.2075	.1959	.0257	.9172	.0022

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9659	.05671	.0003	.1914	.1202	.2624	.1808	.4259
#1	.9617	.05668	.0006	.1908	.1335	.2879	.1776	.4274
#2	.9702	.05675	.0001	.1920	.1068	.2368	.1840	.4244

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1773	309.6	.04454	.0018	.0002	-.0032	.0017	15.73
#1	.1780	311.3	.04434	.0033	.0010	-.0030	.0019	15.72
#2	.1765	307.9	.04474	.0003	-.0006	-.0033	.0015	15.73

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	>9.000	.0045	.0205
#1	13.58	.0071	.0192
#2	13.57	.0019	.0218

Sample Name: K1701313-002S Acquired: 3/1/2017 18:20:51 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	**1911.1**	**32919.**	**2406.8**
#1	1912.2	32907.	2415.3
#2	1910.0	32932.	2398.4

Sample Name: K1701313-002A Acquired: 3/1/2017 18:23:19 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5 A=0.1/10mL MET2-77-K

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0143	-.0469	4.819	10.03	-.00013	.4330	1.013	.9770
#1	-.0124	-.0434	4.824	9.986	-.00003	.4397	1.016	.9810
#2	-.0162	-.0503	4.814	10.07	-.00022	.4264	1.011	.9729

Elem	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.846	5.006	.0029	1.006	.9439	.0333	4.710	.0008
#1	4.830	4.992	.0037	1.006	.9430	.0351	4.728	.0008
#2	4.861	5.021	.0022	1.005	.9448	.0315	4.692	.0007

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9215	.05439	.0010	.9728	.1239	.2410	.9318	.4603
#1	.9189	.05447	.0005	.9754	.1261	.2330	.9293	.4827
#2	.9241	.05430	.0014	.9702	.1217	.2491	.9343	.4378

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8949	296.4	.04313	.0015	.0014	-.0028	.0063	>18.00
#1	.8948	297.0	.04281	.0052	.0020	-.0028	.0062	22.92
#2	.8951	295.8	.04346	-.0022	.0007	-.0029	.0063	22.76

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	>9.000	.0081	.0267
#1	18.85	.0073	.0253
#2	18.82	.0089	.0281

Sample Name: K1701313-002A Acquired: 3/1/2017 18:23:19 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5 A=0.1/10mL MET2-77-K

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1893.0	33120.	2392.7
#1	1887.8	33125.	2401.9
#2	1898.2	33115.	2383.5

Sample Name: K1701383-001 Acquired: 3/1/2017 18:25:45 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0206	.0042	.0029	.0811	-.00010	.4430	.0007	.0008
#1	.0183	.0071	.0012	.0792	-.00010	.4465	.0008	.0009
#2	.0228	.0014	.0046	.0830	-.00011	.4396	.0005	.0007

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	37.51	.0013	.0009	.0013	.0029	.0081	.0036	.0007
#1	37.69	.0011	.0012	.0021	.0025	.0134	.0017	.0008
#2	37.32	.0015	.0006	.0005	.0033	.0028	.0056	.0006

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1629	.02834	.0001	.0010	1.220	.1533	.0078	.2961
#1	.1628	.02819	.0000	.0012	1.210	.1797	.0077	.2859
#2	.1630	.02850	.0002	.0008	1.230	.1269	.0079	.3064

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017	274.2	.02323	.0033	-.0008	-.0024	.0004	14.63
#1	.0023	274.2	.02335	.0027	-.0011	-.0026	.0010	14.61
#2	.0011	274.2	.02311	.0038	-.0005	-.0021	-.0002	14.65

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	>9.000	.0056	.2114
#1	12.71	.0074	.2079
#2	12.76	.0039	.2148

Sample Name: K1701383-001 Acquired: 3/1/2017 18:25:45 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1901.9	33526.	2427.6
#1	1901.2	33635.	2405.8
#2	1902.6	33417.	2449.3

Sample Name: K1701383-001D Acquired: 3/1/2017 18:28:17 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0386	-.0023	-.0018	.0784	-.00011	-.0652	.0001	.0003
#1	-.0367	.0015	.0019	.0785	.00005	-.0700	.0002	.0004
#2	-.0405	-.0061	-.0054	.0783	-.00027	-.0604	.0000	.0003

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	37.01	-.0001	.0008	.0021	.0018	.0054	-.0012	-.0009
#1	37.05	.0005	.0011	.0015	.0017	-.0012	-.0030	-.0005
#2	36.97	-.0008	.0005	.0027	.0019	.0119	.0005	-.0014

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1606	.02832	-.0008	.0007	1.180	.1375	-.0023	.1108
#1	.1610	.02824	-.0012	.0002	1.194	.0793	-.0015	.1043
#2	.1603	.02840	-.0005	.0012	1.166	.1956	-.0031	.1173

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	269.6	.02278	.0031	-.0013	-.0031	-.0002	14.42
#1	-.0001	269.7	.02296	.0030	-.0018	-.0030	-.0006	14.35
#2	.0005	269.5	.02261	.0032	-.0007	-.0033	.0003	14.49

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	>9.000	.0079	.2031
#1	12.56	.0080	.1980
#2	12.55	.0078	.2083

Sample Name: K1701383-001D Acquired: 3/1/2017 18:28:17 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1917.7	33231.	2425.4
#1	1912.5	33280.	2417.3
#2	1922.9	33183.	2433.4

Sample Name: K1701383-001S Acquired: 3/1/2017 18:30:49 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0131	-.0118	.9189	2.025	-.00005	.4903	.1944	.1859
#1	-.0112	-.0130	.9176	2.024	-.00007	.4901	.1946	.1856
#2	-.0150	-.0107	.9203	2.026	-.00003	.4906	.1942	.1863

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	37.50	.9769	.0008	.1908	.1804	.0057	.8978	.0011
#1	37.59	.9788	.0012	.1898	.1801	.0034	.8966	.0018
#2	37.41	.9750	.0005	.1918	.1807	.0080	.8990	.0003

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1629	.02869	-.0003	.1860	1.194	.1577	.1821	.1335
#1	.1631	.02897	-.0001	.1856	1.204	.1789	.1773	.1401
#2	.1626	.02840	-.0004	.1865	1.184	.1365	.1868	.1268

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1744	266.1	.02279	.0034	-.0006	-.0029	.0018	16.32
#1	.1736	262.8	.02280	.0032	-.0017	-.0030	.0011	16.33
#2	.1753	269.3	.02279	.0036	.0006	-.0028	.0024	16.31

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	>9.000	.0009	.2163
#1	14.09	.0006	.2137
#2	14.15	.0013	.2190

Sample Name: K1701383-001S Acquired: 3/1/2017 18:30:49 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1923.0	33194.	2380.3
#1	1922.2	33090.	2366.9
#2	1923.9	33299.	2393.6

Sample Name: K1701383-001A Acquired: 3/1/2017 18:33:17 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5 A = 0.1/10ml METZ-77-K RBM 3/2/17

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0144	-.0447	4.803	10.12	-.00016	.4585	1.008	.9712
#1	.0138	-.0471	4.804	9.998	-.00012	.4555	1.007	.9702
#2	.0151	-.0424	4.802	10.25	-.00020	.4616	1.010	.9722

Elem	Ca3158	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	38.21	5.029	.0021	.9892	.9267	.0024	4.704	.0013
#1	38.06	5.033	.0026	.9895	.9306	-.0006	4.713	.0009
#2	38.36	5.026	.0015	.9889	.9228	.0055	4.694	.0017

Elem	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960	Si2516
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1648	.02904	.0012	.9686	1.223	.1172	.9150	.2924
#1	.1642	.02906	.0009	.9674	1.226	.1080	.9203	.3027
#2	.1654	.02903	.0015	.9698	1.221	.1263	.9098	.2822

Elem	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8973	273.0	.02341	.0033	.0000	-.0023	.0056	>18.00
#1	.8985	271.9	.02333	.0021	.0003	-.0026	.0055	24.15
#2	.8961	274.0	.02350	.0045	-.0004	-.0021	.0058	24.23

Elem	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm
Avg	>9.000	.0120	.2187
#1	19.85	.0106	.2118
#2	19.91	.0135	.2257

Sample Name: K1701383-001A Acquired: 3/1/2017 18:33:17 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1904.6	33274.	2378.6
#1	1903.2	33251.	2384.0
#2	1905.9	33298.	2373.2

Sample Name: CCVB Acquired: 3/1/2017 18:35:49 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.597	10.76	-.0015	.9933	10.13	-.00029	-.0652	.0001
Stddev	.006	.03	.0009	.0037	.01	.00001	.0012	.0001
%RSD	.0764	.2842	61.93	.3743	.0870	2.4881	1.807	77.41
#1	7.593	10.74	-.0008	.9959	10.14	-.00029	-.0644	.0002
#2	7.601	10.78	-.0021	.9907	10.12	-.00030	-.0660	.0001
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	None	None	None
Value								
Range								

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	9.933	9.743	.0001	.0004	-.0003	-.0002	9.932
Stddev	.000	.038	.041	.0001	.0006	.0005	.0008	.006
%RSD	21.09	.3859	.4242	89.39	134.2	152.7	422.9	.0589
#1	-.0001	9.906	9.713	.0000	.0009	.0000	-.0008	9.936
#2	.0000	9.960	9.772	.0002	.0000	-.0007	.0004	9.927
Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032	.9506	10.17	9.236	9.323	.96262	.9465	-.0006
Stddev	.0009	.0045	.02	.020	.007	.00321	.0037	.0005
%RSD	28.47	.4709	.2425	.2138	.0799	.33386	.3961	87.04
#1	.0026	.9538	10.19	9.250	9.328	.96489	.9492	-.0009
#2	.0039	.9475	10.15	9.222	9.318	.96035	.9438	-.0002
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass	None
Value								
Range								

Sample Name: CCVB Acquired: 3/1/2017 18:35:49 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	10.33	9.603	.0048	9.434	.0011	9.505	.98991
Stddev	.0001	.00	.024	.0014	.065	.0001	.014	.00472
%RSD	25.21	.0401	.2449	28.13	.6917	9.261	.1494	.47631
#1	.0004	10.33	9.619	.0039	9.388	.0012	9.515	.99325
#2	.0005	10.34	9.586	.0058	9.480	.0010	9.495	.98658
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028	-.0021	-.0010	.0008	.0017	.0013	1.048	.9749
Stddev	.0012	.0006	.0000	.0009	.0016	.0016	.009	.0069
%RSD	43.49	27.48	.3896	110.8	94.11	122.6	.8182	.7071
#1	.0020	-.0026	-.0010	.0015	.0028	.0025	1.042	.9701
#2	.0037	-.0017	-.0010	.0002	.0006	.0002	1.054	.9798
Check ?	None	None	None	None	None	None	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2043.6	35547.	2380.8
Stddev	.6	17.	6.6
%RSD	.02883	.04680	.27895
#1	2043.2	35558.	2376.1
#2	2044.0	35535.	2385.5

Sample Name: CCVA Acquired: 3/1/2017 18:38:18 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2672	.2877	.2502	.2502	.2565	.25168	F .1123	.2597
Stddev	.0041	.0077	.0023	.0010	.0011	.00007	.0020	.0004
%RSD	1.551	2.679	.9253	.4195	.4446	.02864	1.799	.1383
#1	.2642	.2932	.2518	.2510	.2557	.25163	.1137	.2599
#2	.2701	.2823	.2486	.2495	.2573	.25173	.1109	.2594
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Fail	Chk Pass
Value							.2500	
Range							-10.44%	

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2505	.4853	.4917	.2538	.2573	.2561	.2530	.2469
Stddev	.0008	.0183	.0013	.0023	.0005	.0006	.0009	.0068
%RSD	.3068	3.762	.2591	.8910	.1916	.2445	.3368	2.738
#1	.2510	.4724	.4908	.2554	.2576	.2566	.2536	.2517
#2	.2499	.4982	.4926	.2522	.2569	.2557	.2524	.2421
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2529	.0009	.2582	.2397	.2356	.24557	.2364	.2469
Stddev	.0029	.0004	.0509	.0022	.0015	.00079	.0075	.0003
%RSD	1.141	43.72	19.70	.9149	.6160	.32110	3.167	.1354
#1	.2508	.0006	.2941	.2381	.2366	.24612	.2417	.2472
#2	.2549	.0012	.2222	.2412	.2345	.24501	.2311	.2467
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass	None	Chk Pass
Value								
Range								

Sample Name: CCVA Acquired: 3/1/2017 18:38:18 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2541	.0013	2.356	.2461	.1478	.2533	.3732	-.00009
Stddev	.0003	.0052	.011	.0064	.0157	.0006	.0100	.00028
%RSD	.1149	406.1	.4570	2.589	10.66	.2172	2.677	298.91
#1	.2544	-.0024	2.363	.2506	.1366	.2537	.3661	-.00029
#2	.2539	.0049	2.348	.2416	.1589	.2529	.3803	.00010
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass	None	None
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2616	.2548	.2559	.2544	.2513	.2439	.0066	-.0146
Stddev	.0023	.0026	.0014	.0029	.0001	.0001	.0044	.0046
%RSD	.8873	1.036	.5550	1.149	.0311	.0328	66.13	31.77
#1	.2633	.2567	.2569	.2565	.2513	.2440	.0097	-.0178
#2	.2600	.2530	.2549	.2524	.2512	.2439	.0035	-.0113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2062.5	36316.	2425.4
Stddev	.9	121.	2.2
%RSD	.04281	.33352	.08956
#1	2061.9	36230.	2426.9
#2	2063.2	36402.	2423.8

Sample Name: CCB Acquired: 3/1/2017 18:40:36 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	.0012	.0037	.0009	.0000	.00001	F -.1312
Stddev	.0021	.0013	.0065	.0002	.000	.00006	.0043
%RSD	251.4	111.4	176.3	25.66	9.427	841.30	3.258
#1	.0023	.0003	.0083	.0007	.0000	.00005	-.1342
#2	-.0006	.0021	-.0009	.0010	.0000	-.00004	-.1282
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.0050
Low Limit							-.0050

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0001	F -.0212	.0005	.0006	.0002	.0006
Stddev	.0000	.0003	.0039	.0000	.0001	.0001	.0000
%RSD	10.84	425.2	18.33	10.28	15.04	48.68	3.177
#1	.0001	-.0002	-.0184	.0004	.0005	.0003	.0006
#2	.0001	.0003	-.0239	.0005	.0006	.0001	.0006
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.0200				
Low Limit			-.0200				

Elem	Cu3273	Fe2599	Pb2203	Li6707	Mg2790	Mg2795	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0077	-.0002	.0003	-.0929	-.0001	-.0021
Stddev	.0010	.0010	.0039	.0014	.0126	.0004	.0007
%RSD	735.3	12.72	2295.	449.8	13.54	690.7	34.20
#1	.0006	.0084	.0026	.0013	-.0840	-.0004	-.0027
#2	-.0008	.0070	-.0029	-.0007	-.1018	.0002	-.0016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 3/1/2017 18:40:36 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Mn2576	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00006	.0008	.0006	.0003	.0019	.0555	.0057
Stddev	.00004	.0027	.0006	.0001	.0036	.0390	.0044
%RSD	69.468	365.1	97.58	28.30	193.3	70.37	77.76
#1	.00003	.0027	.0002	.0002	.0044	.0830	.0089
#2	.00009	-.0012	.0010	.0003	-.0007	.0279	.0026
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0119	.0016	.1078	.00002	.0032	.0003	-.0008
Stddev	.0025	.0010	.0008	.00003	.0045	.0005	.0000
%RSD	20.77	63.66	.7780	130.60	143.2	137.1	1.937
#1	.0102	.0023	.1072	.00004	.0000	.0007	-.0007
#2	.0137	.0009	.1084	.00000	.0064	.0000	-.0008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0007	.0004	.0004	.0027	-.0130
Stddev	.0003	.0004	.0001	.0016	.0137
%RSD	44.81	87.15	18.24	61.78	105.6
#1	.0005	.0002	.0003	.0015	-.0033
#2	.0009	.0007	.0004	.0038	-.0227
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB Acquired: 3/1/2017 18:40:36 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2054.4	36271.	2379.8
Stddev	4.3	18.	8.5
%RSD	.20918	.04859	.35544
#1	2051.3	36283.	2373.8
#2	2057.4	36258.	2385.8

Sample Name: K1701383-003 Acquired: 3/1/2017 18:42:59 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5 ~~A=0.1/10mL MET2-77-K~~
REM 3/2/17

Elem	Al1670	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0227	-.0033	.0010	.0110	-.00009	.4218	.0016	.0021
#1	.0225	-.0052	.0007	.0117	-.00009	.4263	.0016	.0021
#2	.0229	-.0015	.0014	.0103	-.00010	.4173	.0016	.0021

Elem	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.593	7.482	-.0001	.0176	.0001	.0012	.0049	.0102
#1	7.601	7.448	-.0001	.0179	.0000	.0012	.0025	.0085
#2	7.585	7.516	-.0001	.0173	.0003	.0011	.0073	.0120

Elem	Li6707	Mg2795	Mn2576	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0599	.00475	.0001	.0005	.1826	.1634	.0055
#1	.0007	.0599	.00459	.0002	.0012	.1792	.1355	.0063
#2	.0001	.0599	.00491	-.0001	-.0002	.1860	.1914	.0048

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2894	.0010	267.6	.00262	.0008	-.0007	-.0023	.0006
#1	.2802	.0009	267.5	.00247	-.0024	-.0002	-.0024	.0002
#2	.2985	.0011	267.7	.00277	.0041	-.0011	-.0023	.0010

Elem	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm
Avg	5.780	5.218	.0050	.0013
#1	5.795	5.227	.0081	.0022
#2	5.766	5.210	.0019	.0005

Sample Name: K1701383-003 Acquired: 3/1/2017 18:42:59 Type: Unk
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 5 Test Type: E Sample Type:
Comment: EM 030117A TCLP 1/5 ~~A=0.1/10mL MET2-77-K~~ RAM 3/2/17

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	1933.1	33572.	2393.0
#1	1934.8	33612.	2404.4
#2	1931.4	33532.	2381.6

Sample Name: CCVB Acquired: 3/1/2017 18:45:32 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.632	F 11.21	.0025	.9950	10.23	-.00002	-.0867	-.0001
Stddev	.006	.01	.0021	.0109	.06	.00008	.0011	.0001
%RSD	.0819	.0813	80.98	1.098	.5599	379.13	1.232	128.0
#1	7.636	11.21	.0040	.9873	10.27	.00003	-.0874	.0000
#2	7.628	11.20	.0011	1.003	10.19	-.00007	-.0859	-.0002
Check ?	None	Chk Fail	None	Chk Pass	Chk Pass	None	None	None
Value		10.00						
Range		10.44%						

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	9.747	9.517	.0002	.0004	.0002	.0002	9.806
Stddev	.0002	.011	.020	.0001	.0002	.0000	.0001	.079
%RSD	246.0	.1072	.2085	71.69	52.72	17.06	59.70	.8041
#1	-.0001	9.740	9.531	.0001	.0005	.0002	.0002	9.862
#2	.0002	9.755	9.503	.0003	.0002	.0002	.0001	9.751
Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.9878	9.831	9.152	9.505	.95694	.9581	-.0003
Stddev	.0008	.0020	.065	.007	.021	.00116	.0002	.0001
%RSD	152.4	.2062	.6632	.0797	.2242	.12111	.0207	30.68
#1	.0010	.9892	9.785	9.147	9.520	.95776	.9580	-.0003
#2	.0000	.9864	9.877	9.158	9.490	.95612	.9583	-.0002
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass	None
Value								
Range								

Sample Name: CCVB Acquired: 3/1/2017 18:45:32 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	10.43	9.905	.0031	9.580	.0005	9.774	.99324
Stddev	.0005	.01	.094	.0016	.085	.0001	.029	.00113
%RSD	479.3	.0505	.9523	53.32	.8852	20.67	.2962	.11342
#1	.0003	10.43	9.972	.0042	9.640	.0006	9.753	.99245
#2	-.0005	10.43	9.838	.0019	9.520	.0004	9.794	.99404
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040	-.0026	-.0008	.0009	.0003	.0000	1.063	.9743
Stddev	.0005	.0012	.0001	.0004	.0006	.0002	.000	.0026
%RSD	12.69	47.63	15.98	42.52	171.4	1004.	.0369	.2642
#1	.0036	-.0034	-.0009	.0012	-.0001	.0001	1.064	.9761
#2	.0043	-.0017	-.0007	.0006	.0008	-.0001	1.063	.9725
Check ?	None	None	None	None	None	None	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2029.8	35888.	2441.7
Stddev	1.6	64.	.2
%RSD	.08066	.17834	.00937
#1	2030.9	35934.	2441.6
#2	2028.6	35843.	2441.9

Sample Name: CCVA Acquired: 3/1/2017 18:48:01 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496	Cd2144
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2613	.2924	.2505	.2552	.2559	.25059	F .1087	.2582
Stddev	.0004	.0040	.0062	.0020	.0015	.00136	.0028	.0003
%RSD	.1574	1.365	2.482	.7654	.5908	.54385	2.543	.1054
#1	.2616	.2952	.2461	.2538	.2570	.24962	.1068	.2584
#2	.2610	.2896	.2549	.2566	.2549	.25155	.1107	.2580
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	Chk Fail	Chk Pass
Value							.2500	
Range							-10.44%	

Elem	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247	Cu3273	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2495	.4707	.4958	.2527	.2576	.2576	.2562	.2477
Stddev	.0004	.0104	.0003	.0017	.0002	.0008	.0008	.0073
%RSD	.1745	2.215	.0534	.6849	.0908	.2988	.3039	2.938
#1	.2498	.4781	.4956	.2539	.2578	.2582	.2557	.2528
#2	.2492	.4633	.4960	.2515	.2575	.2571	.2568	.2425
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value								
Range								

Elem	Pb2203	Li6707	Mg2790	Mg2795	Mg2852	Mn2576	Mn2605	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2498	.0003	.2290	.2395	.2341	.24758	.2398	.2465
Stddev	.0004	.0009	.0106	.0005	.0086	.00064	.0015	.0002
%RSD	.1423	293.1	4.636	.2021	3.666	.25793	.6048	.0659
#1	.2500	-.0003	.2215	.2398	.2402	.24803	.2409	.2466
#2	.2495	.0010	.2365	.2391	.2280	.24713	.2388	.2464
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass	None	Chk Pass
Value								
Range								

Sample Name: CCVA Acquired: 3/1/2017 18:48:01 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Ni2216	P_1782	K_7664	Se1960	Si2516	Ag3280	Na5895	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2542	.0048	2.365	.2539	.1474	.2537	.3501	-.00006
Stddev	.0020	.0003	.005	.0015	.0193	.0011	.0012	.00019
%RSD	.7749	6.159	.2201	.6082	13.09	.4147	.3561	326.67
#1	.2556	.0046	2.369	.2528	.1610	.2544	.3492	-.00019
#2	.2528	.0050	2.362	.2550	.1337	.2529	.3510	.00007
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass	None	None
Value								
Range								

Elem	Tl1908	Sn1899	Ti3361	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2606	.2545	.2549	.2522	.2498	.2441	.0034	-.0213
Stddev	.0052	.0005	.0006	.0001	.0005	.0005	.0006	.0008
%RSD	1.985	.1963	.2458	.0450	.2015	.2049	16.58	3.809
#1	.2642	.2542	.2554	.2521	.2502	.2445	.0030	-.0208
#2	.2569	.2549	.2545	.2523	.2495	.2437	.0038	-.0219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None
Value								
Range								

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2057.8	36446.	2453.0
Stddev	3.0	145.	10.7
%RSD	.14660	.39698	.43527
#1	2055.7	36344.	2445.5
#2	2060.0	36548.	2460.6

Sample Name: CCB Acquired: 3/1/2017 18:50:19 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	.0027	.0061	.0032	.0004	-.00009	F -.1403
Stddev	.0011	.0015	.0028	.0039	.0002	.00013	.0008
%RSD	287.4	53.53	44.80	121.4	55.74	147.39	.5968
#1	-.0011	.0037	.0081	.0059	.0005	-.00019	-.1409
#2	.0004	.0017	.0042	.0005	.0002	.00000	-.1397
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.0050
Low Limit							-.0050

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0001	.0016	-.0002	-.0003	.0000	.0004
Stddev	.0002	.0000	.0311	.0000	.0000	.0006	.0012
%RSD	111.5	12.37	1926.	23.15	14.29	14360.	326.6
#1	.0004	.0001	.0236	-.0002	-.0003	.0004	-.0005
#2	.0000	.0001	-.0203	-.0002	-.0002	-.0004	.0012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cu3273	Fe2599	Pb2203	Li6707	Mg2790	Mg2795	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0010	.0039	-.0004	.0008	.0217	.0000	-.0021
Stddev	.0003	.0007	.0018	.0001	.0152	.000	.0015
%RSD	27.42	17.32	408.0	11.90	70.04	203.0	73.08
#1	-.0012	.0034	-.0017	.0009	.0324	.0000	-.0031
#2	-.0008	.0044	.0008	.0007	.0109	-.0001	-.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 3/1/2017 18:50:19 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Mn2576	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00006	-.0017	.0007	-.0004	.0032	.0510	.0030
Stddev	.00005	.0006	.0001	.0001	.0051	.0039	.0004
%RSD	74.810	37.29	12.73	32.21	159.8	7.713	14.37
#1	.00003	-.0021	.0006	-.0004	-.0004	.0537	.0034
#2	.00009	-.0013	.0008	-.0003	.0068	.0482	.0027
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	.0017	.1042	-.00009	.0033	-.0001	-.0008
Stddev	.0008	.0003	.0035	.00014	.0004	.0024	.0004
%RSD	163.5	14.83	3.371	153.97	11.21	4022.	48.92
#1	.0001	.0015	.1017	.00001	.0035	-.0018	-.0011
#2	-.0011	.0019	.1067	-.00019	.0030	.0016	-.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0000	-.0003	.0016	-.0137
Stddev	.0003	.000	.0003	.0016	.0014
%RSD	189.2	3678.	112.0	103.3	10.24
#1	.0004	.0002	-.0005	.0004	-.0127
#2	-.0001	-.0002	-.0001	.0028	-.0147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB Acquired: 3/1/2017 18:50:19 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2046.2	36288.	2441.5
Stddev	.6	160.	13.9
%RSD	.02864	.44025	.56923
#1	2046.7	36401.	2431.7
#2	2045.8	36175.	2451.3

Sample Name: CCB Acquired: 3/1/2017 18:52:42 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: RERUN

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0016	.0006	-.0006	.0002	.0001	-.00021	F -.1339
Stddev	.0035	.0032	.0021	.0007	.0005	.00000	.0011
%RSD	214.8	520.5	382.1	404.3	589.0	1.1783	.8441
#1	.0008	-.0017	-.0020	-.0003	-.0003	-.00021	-.1347
#2	-.0041	.0029	.0009	.0007	.0004	-.00020	-.1331
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							.0050
Low Limit							-.0050

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0002	-.0070	-.0003	.0007	.0006	.0000
Stddev	.0002	.0001	.0128	.0002	.0014	.0003	.000
%RSD	1343.	39.99	183.1	59.76	206.5	53.17	710.8
#1	-.0001	.0002	.0021	-.0002	-.0003	.0008	.0000
#2	.0001	.0003	-.0161	-.0004	.0017	.0004	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cu3273	Fe2599	Pb2203	Li6707	Mg2790	Mg2795	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0012	-.0019	.0004	-.0380	-.0001	.0020
Stddev	.0006	.0011	.0006	.0002	.0780	.0001	.0052
%RSD	166.6	88.51	30.61	55.64	205.5	147.0	254.2
#1	.0001	.0005	-.0023	.0005	.0172	-.0002	-.0016
#2	-.0007	.0020	-.0015	.0002	-.0931	.0000	.0057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

NR
Cm 3/2/17

Sample Name: CCB Acquired: 3/1/2017 18:52:42 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: RERUN

Elem	Mn2576	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00003	-.0006	.0000	-.0003	-.0003	-.0017	.0029
Stddev	.00010	.0011	.000	.0007	.0091	.0147	.0092
%RSD	374.20	193.6	544.2	229.5	2722.	854.4	319.9
#1	.00005	-.0013	-.0002	.0002	.0061	-.0121	.0094
#2	-.00010	.0002	.0001	-.0008	-.0068	.0086	-.0036
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0011	.0904	-.00017	.0013	-.0027	-.0009
Stddev	.0199	.0009	.0040	.00021	.0020	.0018	.0004
%RSD	3682.	77.86	4.436	127.41	157.7	68.08	39.16
#1	.0146	.0005	.0932	-.00002	.0027	-.0014	-.0012
#2	-.0135	.0017	.0876	-.00032	-.0001	-.0039	-.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0006	-.0002	-.0007	-.0112
Stddev	.0001	.0004	.0003	.0003	.0026
%RSD	130.7	78.08	151.0	45.70	23.37
#1	.0001	.0003	.0000	-.0005	-.0093
#2	.0000	.0009	-.0004	-.0010	-.0131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

NR
Gm 3/2/17

Sample Name: CCB Acquired: 3/1/2017 18:52:42 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: RERUN

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2033.9	35873.	2386.9
Stddev	7.2	20.	15.9
%RSD	.35243	.05505	.66532
#1	2039.0	35887.	2375.6
#2	2028.8	35859.	2398.1

NR
Ann 3/2/17

Sample Name: LLCCV Acquired: 3/1/2017 18:55:06 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0054	F .0143	.0208	.0098	.0035	.00103	F -.1123
Stddev	.0026	.0015	.0020	.0011	.0005	.00026	.0013
%RSD	47.33	10.54	9.596	11.50	13.98	25.581	1.135
#1	.0036	.0133	.0222	.0090	.0032	.00085	-.1132
#2	.0072	.0154	.0194	.0106	.0038	.00122	-.1114
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value	.0100	.0100					.0200
Range	-30.00%	30.00%					-30.00%

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	.0011	F .0285	.0202	.0045	.0021	.0045
Stddev	.0001	.0001	.0161	.0002	.0006	.0002	.0000
%RSD	9.239	10.77	56.33	1.063	13.02	9.157	.8935
#1	.0009	.0010	.0399	.0201	.0049	.0022	.0044
#2	.0008	.0012	.0172	.0204	.0041	.0020	.0045
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			.0200				
Range			30.00%				

Elem	Cu3273	Fe2599	Pb2203	Li6707	Mg2790	Mg2795	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0037	.0239	.0113	.0189	-.0193	.0043	F .0071
Stddev	.0004	.0022	.0011	.0001	.0635	.0001	.0035
%RSD	10.09	9.351	9.795	.4490	329.2	2.509	48.84
#1	.0040	.0224	.0121	.0188	.0256	.0043	.0046
#2	.0034	.0255	.0106	.0189	-.0641	.0044	.0095
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Fail
Value							.0050
Range							30.00%

*rerun
ann 3/2/17

Sample Name: LLCCV Acquired: 3/1/2017 18:55:06 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Mn2576	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00096	-.0002	.0034	.0039	.0390	.1885	.0215
Stddev	.00010	.0032	.0006	.0003	.0033	.0207	.0039
%RSD	10.820	1393.	17.71	6.996	8.465	10.96	18.05
#1	.00103	-.0025	.0030	.0041	.0367	.2031	.0243
#2	.00089	.0020	.0039	.0037	.0413	.1739	.0188
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1795	.0047	F .2766	.00100	F .0145	.0203	F .0013
Stddev	.0139	.0007	.0123	.00000	.0011	.0010	.0003
%RSD	7.766	15.20	4.435	.47028	7.567	4.719	24.21
#1	.1696	.0052	.2680	.00101	.0137	.0209	.0011
#2	.1893	.0042	.2853	.00100	.0153	.0196	.0016
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value			.2000		.0100		.0020
Range			30.00%		30.00%		-30.00%

Elem	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0032	.0044	.0037	.0218	.0283
Stddev	.0000	.0003	.0001	.0006	.0107
%RSD	1.278	7.602	3.638	2.698	37.93
#1	.0032	.0042	.0036	.0222	.0207
#2	.0033	.0047	.0038	.0214	.0359
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: LLCCV Acquired: 3/1/2017 18:55:06 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2048.7	35922.	2423.0
Stddev	7.1	182.	3.0
%RSD	.34420	.50552	.12464
#1	2043.7	35794.	2425.1
#2	2053.7	36051.	2420.9

Sample Name: LLCCV Acquired: 3/1/2017 18:57:29 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: RERUN

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0120	F .0141	.0193	.0105	.0042	.00097	F -.1202
Stddev	.0008	.0005	.0062	.0045	.0003	.00007	.0042
%RSD	6.969	3.539	32.13	43.22	6.385	7.3832	3.465
#1	.0114	.0145	.0236	.0137	.0044	.00092	-.1172
#2	.0126	.0138	.0149	.0073	.0040	.00103	-.1231
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value		.0100					.0200
Range		30.00%					-30.00%

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011	.0011	.0168	.0201	.0043	.0024	.0039
Stddev	.0002	.0003	.0454	.0002	.0002	.0002	.0003
%RSD	17.37	23.91	270.8	.8942	5.137	9.476	6.919
#1	.0013	.0013	.0489	.0199	.0045	.0026	.0041
#2	.0010	.0009	-.0154	.0202	.0041	.0023	.0038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cu3273	Fe2599	Pb2203	Li6707	Mg2790	Mg2795	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0035	.0188	.0096	.0185	-.0508	.0049	.0037
Stddev	.0012	.0009	.0019	.0004	.0132	.0002	.0030
%RSD	33.05	4.969	19.70	2.160	25.99	3.915	80.31
#1	.0027	.0181	.0109	.0183	-.0414	.0047	.0016
#2	.0043	.0194	.0083	.0188	-.0601	.0050	.0058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value							
Range							

Sample Name: LLCCV Acquired: 3/1/2017 18:57:29 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: RERUN

Elem	Mn2576	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00085	.0007	.0040	.0041	.0448	.2309	.0213
Stddev	.00011	.0015	.0007	.0001	.0062	.0135	.0004
%RSD	13.023	205.3	17.87	1.905	13.89	5.846	1.819
#1	.00078	-.0003	.0045	.0042	.0404	.2213	.0210
#2	.00093	.0018	.0035	.0041	.0492	.2404	.0216
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1825	.0048	F .2694	.00090	F .0158	.0194	F .0008
Stddev	.0263	.0001	.0018	.00005	.0000	.0002	.0007
%RSD	14.40	2.337	.6615	5.4830	.2330	.8154	84.56
#1	.2010	.0048	.2707	.00094	.0158	.0193	.0003
#2	.1639	.0049	.2682	.00087	.0158	.0195	.0012
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail
Value			.2000		.0100		.0020
Range			30.00%		30.00%		-30.00%

Elem	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0047	.0039	.0038	.0253	F .0226
Stddev	.0000	.0002	.0002	.0015	.0105
%RSD	.0960	6.226	5.873	5.884	46.61
#1	.0047	.0040	.0036	.0242	.0151
#2	.0047	.0037	.0039	.0263	.0300
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value					.0400
Range					-30.00%

Sample Name: LLCCV Acquired: 3/1/2017 18:57:29 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment: RERUN

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2051.8	36351.	2433.4
Stddev	.8	59.	2.0
%RSD	.04120	.16266	.08318
#1	2051.2	36309.	2434.9
#2	2052.4	36393.	2432.0

Sample Name: LLCCV,0.5 Acquired: 3/1/2017 18:59:53 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Al1670	Al3944	Sb2068	As1890	Ba4554	Be2348	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0206	.0257	.0445	.0183	.0082	.00197	F -.1008
Stddev	.0014	.0006	.0046	.0010	.0007	.00008	.0006
%RSD	6.923	2.239	10.33	5.336	8.800	3.9345	.6219
#1	.0196	.0261	.0413	.0190	.0077	.00192	-.1012
#2	.0216	.0253	.0478	.0176	.0087	.00203	-.1004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							.0400
Range							-30.00%

Elem	Cd2144	Cd2265	Ca3158	Ca3933	Cr2677	Co2307	Cu2247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023	.0023	.0293	.0427	.0078	.0044	.0087
Stddev	.0002	.0000	.0093	.0001	.0007	.0000	.0003
%RSD	9.286	.8792	31.63	.1574	9.370	1.028	3.826
#1	.0024	.0022	.0358	.0427	.0083	.0043	.0085
#2	.0021	.0023	.0227	.0426	.0072	.0044	.0089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cu3273	Fe2599	Pb2203	Li6707	Mg2790	Mg2795	Mg2852
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0073	.0325	.0197	.0390	.0187	.0093	.0071
Stddev	.0003	.0036	.0032	.0006	.0478	.0000	.0010
%RSD	4.554	11.16	16.41	1.572	256.4	.5297	13.71
#1	.0075	.0351	.0175	.0386	-.0152	.0093	.0064
#2	.0070	.0300	.0220	.0394	.0525	.0093	.0078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value							
Range							

Sample Name: LLCCV,0.5 Acquired: 3/1/2017 18:59:53 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Elem	Mn2576	Mn2605	Mo2020	Ni2216	P_1782	K_7664	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00198	F .0033	.0079	.0080	.0771	.4103	.0441
Stddev	.00016	.0003	.0004	.0009	.0091	.0036	.0018
%RSD	7.8414	7.740	4.527	11.65	11.74	.8771	4.046
#1	.00209	.0035	.0081	.0073	.0835	.4078	.0454
#2	.00187	.0032	.0076	.0086	.0707	.4129	.0428
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		.0020					
Range		30.00%					

Elem	Si2516	Ag3280	Na5895	Sr4077	Tl1908	Sn1899	Ti3361
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4030	.0100	.4648	.00188	.0223	.0396	.0032
Stddev	.0209	.0001	.0038	.00019	.0010	.0001	.0001
%RSD	5.184	.7698	.8234	10.003	4.330	.2859	1.814
#1	.3883	.0100	.4621	.00201	.0216	.0397	.0032
#2	.4178	.0099	.4675	.00174	.0229	.0395	.0032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062	Zn2138	Bi2230	S_1820
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0085	.0084	.0078	.0479	.0686
Stddev	.0000	.0004	.0003	.0074	.0031
%RSD	.3187	5.031	3.862	15.48	4.480
#1	.0084	.0087	.0076	.0532	.0664
#2	.0085	.0081	.0080	.0427	.0707
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: LLCCV,0.5 Acquired: 3/1/2017 18:59:53 Type: QC
Method: 2017A-ICP04(v4) Mode: CONC Corr. Factor: 1.000000
User: admin Dilution: 1 Test Type: Sample Type:
Comment:

Int. Std.	Y_2243	Y_3600	Y_3600-2
Units	Cts/S	Cts/S	Cts/S
Avg	2056.9	36364.	2444.8
Stddev	4.4	33.	11.9
%RSD	.21511	.08999	.48663
#1	2060.0	36341.	2453.2
#2	2053.7	36387.	2436.4

LABORATORY DATA CONSULTANTS, INC.
2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

ARCADIS U.S., Inc.
401 E. Main Street, Suite 400
El Paso, TX 79901
(b) (6)

April 13, 2017

SUBJECT: Fort Bliss, Castner Range, Data Validation
(b) (6)

Enclosed are the final validation reports for the fractions listed below. This SDG was received on March 14, 2017. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #38249:

SDG #	**Fraction:**
K1701419	Iron, Wet Chemistry

The data validation was performed under Level III & IV guidelines. The analyses were validated using the following documents, as applicable to each method:

- Final Quality Assurance Project Plan, Military Munitions Response Program Remedial Investigation, Closed Castner Firing Range, Fort Bliss, El Paso, Texas, February 2015
- U.S. Department of Defense Quality Systems Manual for Environmental Laboratories, 5.0, July 2013
- USEPA, Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review, October 2004
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; update IV, February 2007; update V, July 2014

Please feel free to contact us if you have any questions.

Sincerely,
(b) (6)

EDD 90/10 ADR/IV

LDC #38249 (Arcadis-Millersville, MD / Fort Bliss, Castner Range)

LDC	SDG#	DATE REC'D	(2) DATE DUE	Fe (6010C)		Bulk Density (E1109)		Fe II (LP)		Part. Size (D422)		pH (9045D)		Spec. Gravity (D854)		TOC (WB)																					
Matrix:	Water/Soil			W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	K1701419	03/14/17	03/28/17	0	2	0	2	0	2	0	2	0	2	0	2	0	2																		
A	K1701419	03/14/17	03/28/17	0	1	0	1	0	1	0	1	0	1	0	1	0	1																		
Total	T/PG			0	3	0	3	0	3	0	3	0	3	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21

Shaded cells indicate Level IV validation (all other cells are ADR validation). These sample counts do not include MS/MSD, and DUPs

L:\Arcadis\Fort Bliss-Castner Range\38249ST.wpd

Data Validation Report
Fort Bliss, Castner Range

SDG: K1701419

Prepared for

Arcadis U.S., Inc.
401 E. Main Street, Suite 400
El Paso, TX 79901

Prepared by

Laboratory Data Consultants, Inc.
2701 Loker Ave West, Suite 220
Carlsbad, CA 92010

April 12, 2017

INTRODUCTION

This Data Validation Report (DVR) presents Level III and Level IV data validation results for samples collected during the February 2017 sampling period. Data validation was performed in accordance with the Final Quality Assurance Project Plan (QAPP), Military Munitions Response Program Remedial Investigation, Closed Castner Firing Range, Fort Bliss, El Paso, Texas (February 2015), the U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.0 (July 2013), and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines (CLPNFG) for Inorganic Superfund Data Review (October 2004). Where specific guidance is not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Iron by Environmental Protection Agency (EPA) SW 846 Method 6010C

Wet Chemistry:
Bulk Density by American Society for Testing and Material (ASTM) E1109
Ferrous Iron by Lovely Phillips Modified
Particle Size by ASTM D422
pH by EPA SW 846 Method 9045D
Specific Gravity by ASTM D854
Total Organic Carbon by Walkley-Black

The sample identification and methods of analyses performed on each sample is presented in Attachment 1. Please note that sample names had to be truncated due to database limitations. Overall data qualification summary is presented in Attachment 2. Level III Automated Data Review outliers are presented in Enclosure I. DVRs for samples on which Level IV validation was performed are presented in Enclosure II.

All sample results were subjected to Level III data validation, which comprises an evaluation of quality control (QC) summary results for sample holding times, instrument performance check, initial and continuing calibrations, laboratory blanks, initial and continuing calibration blanks (ICB/CCBs), interference check (ICSA and ICSAB) samples, matrix spike/matrix spike duplicates (MS/MSD), duplicate sample analysis (DUP), serial dilutions, laboratory control sample (LCS), and internal standards. Approximately 33 percent of samples were subjected to Level IV evaluation as indicated in Attachment 1, which comprises a review of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

Automated data review was performed on all QC summary results using the Automated Data Review (ADR) software program (LDC, 2013) with exception of the instrument performance check, calibrations, interference check samples, and internal standards which were validated manually. Quality assurance (QA)/QC criteria specified in the QAPP, DoD QSM and CLPNFGs were incorporated with the program's reference library to assess compliance with project requirements.

The following are definitions of the data qualifiers:

J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.

U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the analyte should be considered non-detect at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.

NJ (Presumptive): Presumptive evidence of presence of the compound at an estimated quantity.

NA (Not applicable): Data did not warrant qualification since detected results only are affected and the compound was not detected in the associated samples.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt & Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met with the exception of three samples for pH. The associated sample results were qualified as detected estimated (J) as applicable. The details regarding the qualification of data are provided in Enclosure I.

II. Instrument Performance Check

Instrument performance was checked at the frequency required by the method.

All criteria for the instrument performance check were met.

III. Initial Calibration and Initial Calibration Verification

All criteria for the initial calibration and initial calibration verifications of the method were met.

IV. Continuing Calibration

All criteria for the continuing calibration verifications of the method were met.

V. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

VI. Laboratory Blanks

Laboratory blanks were performed as required by the methods. No contaminant concentrations were detected in the laboratory blanks.

VII. Field Blanks

No field blanks were identified in this SDG.

VIII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were performed on an associated project sample. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Duplicate Sample Analysis

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits.

X. Serial Dilution

Serial dilution analysis was performed on an associated project sample. The analysis criteria were met.

XI. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

XII. Field Duplicates

No field duplicates were identified in this SDG.

XIII. Internal Standards

All internal standard areas and percent recoveries were within QC limits.

XIV. Compound Quantitation

The laboratory reporting limits were evaluated. All laboratory reporting limits met the specified requirements.

XV. Overall Assessment of Data

The analysis was conducted within all specifications of the methods. No results were rejected in this SDG.

Due to holding time exceedances, data were qualified as estimated in three samples.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Based upon the data validation all other results are considered valid and usable for all purposes.

Data flags are summarized and are presented as Attachment 2.

Attachment 1

Sample Cross Reference

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
07-Feb-2017	FTBL-SB01-0-2-020717	K1701419-001	N	ALS SOP	Lovely Phillips	III
07-Feb-2017	FTBL-SB01-0-2-020717	K1701419-001	N	EPA 3050B	6010C	III
07-Feb-2017	FTBL-SB01-0-2-020717	K1701419-001	N	METHOD	9045D	III
07-Feb-2017	FTBL-SB01-0-2-020717	K1701419-001	N	METHOD	ASTM D422	III
07-Feb-2017	FTBL-SB01-0-2-020717	K1701419-001	N	METHOD	ASTM D854	III
07-Feb-2017	FTBL-SB01-0-2-020717	K1701419-001	N	METHOD	ASTM E1109-86	III
07-Feb-2017	FTBL-SB01-0-2-020717	K1701419-001	N	METHOD	Calculation	III
07-Feb-2017	FTBL-SB01-0-2-020717	K1701419-001	N	METHOD	Walkley-Black	III
07-Feb-2017	FTBL-SB01-0-2-020717DUP	K1701419-001DUP	DUP	METHOD	9045D	III
07-Feb-2017	FTBL-SB01-0-2-020717DUP	K1701419-001DUP	DUP	METHOD	ASTM D422	III
07-Feb-2017	FTBL-SB01-0-2-020717DUP	K1701419-001DUP	DUP	METHOD	ASTM D854	III
07-Feb-2017	FTBL-SB01-0-2-020717DUP	K1701419-001DUP	DUP	METHOD	Walkley-Black	III
07-Feb-2017	FTBL-SB01-0-2-020717MS	KQ1701633-03	MS	EPA 3050B	6010C	III
07-Feb-2017	FTBL-SB01-0-2-020717MSD	KQ1701633-04	MSD	EPA 3050B	6010C	III
08-Feb-2017	FTBL-SB03-2-4-020817	K1701419-002	N	ALS SOP	Lovely Phillips	IV
08-Feb-2017	FTBL-SB03-2-4-020817	K1701419-002	N	EPA 3050B	6010C	IV
08-Feb-2017	FTBL-SB03-2-4-020817	K1701419-002	N	METHOD	9045D	IV
08-Feb-2017	FTBL-SB03-2-4-020817	K1701419-002	N	METHOD	ASTM D422	IV
08-Feb-2017	FTBL-SB03-2-4-020817	K1701419-002	N	METHOD	ASTM D854	IV
08-Feb-2017	FTBL-SB03-2-4-020817	K1701419-002	N	METHOD	ASTM E1109-86	IV
08-Feb-2017	FTBL-SB03-2-4-020817	K1701419-002	N	METHOD	Calculation	IV
08-Feb-2017	FTBL-SB03-2-4-020817	K1701419-002	N	METHOD	Walkley-Black	IV
09-Feb-2017	FTBL-SB03-28-30-020917	K1701419-003	N	ALS SOP	Lovely Phillips	III
09-Feb-2017	FTBL-SB03-28-30-020917	K1701419-003	N	EPA 3050B	6010C	III
09-Feb-2017	FTBL-SB03-28-30-020917	K1701419-003	N	METHOD	9045D	III
09-Feb-2017	FTBL-SB03-28-30-020917	K1701419-003	N	METHOD	ASTM D422	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Feb-2017	FTBL-SB03-28-30-020917	K1701419-003	N	METHOD	ASTM D854	III
09-Feb-2017	FTBL-SB03-28-30-020917	K1701419-003	N	METHOD	ASTM E1109-86	III
09-Feb-2017	FTBL-SB03-28-30-020917	K1701419-003	N	METHOD	Calculation	III
09-Feb-2017	FTBL-SB03-28-30-020917	K1701419-003	N	METHOD	Walkley-Black	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation
N = Normal Sample
FD = Field Duplicate
TB = Trip Blank
FB = Field Blank
MS = Matrix Spike
MSD = Matrix Spike Duplicate

Attachment 2

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: K1701419 **Laboratory: ALS_K**

EDD Filename: K1701419_SEDD2A **eQAPP Name: Arcadis_FtBliss_ALS_170316**

Method Category: **EM**

Method: **9045D** ***Matrix:*** **Soil**

Sample ID: **FTBL-SB01-0-2-020717** ***Collected:*** **2/7/2017 11:45:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
pH	8.25	H	0.01	LOD	0.01	LOQ	pH UNITS	J	StoA

Sample ID: **FTBL-SB03-2-4-020817** ***Collected:*** **2/8/2017 2:05:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
pH	8.51	H	0.01	LOD	0.01	LOQ	pH UNITS	J	StoA

Sample ID: **FTBL-SB03-28-30-020917** ***Collected:*** **2/9/2017 9:30:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
pH	8.99	H	0.01	LOD	0.01	LOQ	pH UNITS	J	StoA

* denotes a non-reportable result

Project Name and Number: 06261038.0001.00400 - Closed Castner Firing Range

Data Qualifier Summary

Lab Reporting Batch ID: K1701419 **Laboratory: ALS_K**

EDD Filename: K1701419_SEDD2A **eQAPP Name: Arcadis_FtBliss_ALS_170316**

Reason Code Legend

Reason Code	*Description*
Ms	Matrix Spike Lower Rejection
Ms	Matrix Spike Upper Estimation
StoA	Sampling to Analysis Rejection

* denotes a non-reportable result

Project Name and Number: 06261038.0001.00400 - Closed Castner Firing Range

Enclosure I

Level III ADR Outliers

(Including Manual Review Outliers)

Quality Control
Outlier Reports

K1701419

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: K1701419 **Laboratory: ALS_K**

EDD Filename: K1701419_SEDD2A **eQAPP Name: Arcadis_FtBliss_ALS_170316**

Method: 9045D **Preparation Method: METHOD**

Matrix: Soil

Sample ID	Type	Actual	Criteria	Units	Flag
FTBL-SB01-0-2-020717 (Initial)	Sampling To Analysis	558.75	24.00	HOURS	J (all detects)
FTBL-SB01-0-2-020717DUP (Initial)		558.75	24.00	HOURS	R (all non-detects)
FTBL-SB03-2-4-020817 (Initial)		532.25	24.00	HOURS	
FTBL-SB03-28-30-020917 (Initial)		513.00	24.00	HOURS	

Project Name and Number: 06261038.0001.00400 -

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: K1701419 **Laboratory: ALS_K**

EDD Filename: K1701419_SEDD2A **eQAPP Name: Arcadis_FtBliss_ALS_170316**

Method: **6010C**
Matrix: **Soil**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
FTBL-SB01-0-2-020717MS (Dry) FTBL-SB01-0-2-020717MSD (Dry) (FTBL-SB01-0-2-020717)	IRON	236	-234	75.00-125.00	-	IRON	No Qual, >4x

Project Name and Number: 06261038.0001.00400 - Closed Castner Firing Range

LDC #: 38249A4b
SDG #: K1701419
Laboratory: ALS Environmental

VALIDATION COMPLETENESS WORKSHEET

ADR IV

Date: 3/17/17
Page: 1 of 1
Reviewer: CL
2nd Reviewer: KK

METHOD: Iron (EPA SW 846 Method 6010C)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	Instrument Calibration	A	
III.	ICP Interference Check Sample (ICS) Analysis	A	
IV.	Laboratory Blanks	A	ICB/CCB only
V.	Field Blanks	N	
VI.	Matrix Spike/Matrix Spike Duplicates	A	Not reviewed for ADR validation. MS/D (Fe 74X)
VII.	Duplicate sample analysis	N	Not reviewed for ADR validation.
VIII.	Serial Dilution	A	
IX.	Laboratory control samples	A	Not reviewed for ADR validation. LCS
X.	Field Duplicates	N	
XI.	Sample Result Verification	A	Not reviewed for ADR validation.
XII.	Overall Assessment of Data	A	Not reviewed for ADR validation.

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

** Indicates sample was underwent Level IV review

	Client ID	Lab ID	Matrix	Date
1	FTBL-SB01-0-2-020717	K1701419-001	Soil	02/07/17
2	FTBL-SB03-2-4-020817**	K1701419-002**	Soil	02/08/17
3	FTBL-SB03-28-30-020917	K1701419-003	Soil	02/09/17
4	FTBL-SB01-0-2-020717MS	K1701419-001MS	Soil	02/07/17
5	FTBL-SB01-0-2-020717MSD	K1701419-001MSD	Soil	02/07/17
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Notes:

LDC #: 38249A6 **VALIDATION COMPLETENESS WORKSHEET** Date: 3/17/17

SDG #: K1701419 (ADR/IV) Page: 1 of 1

Laboratory: ALS Environmental Reviewer: [illegible]

2nd Reviewer: [illegible]

METHOD: (Analyte) Bulk Density (ASTM E1109), Ferrous Iron (Lovely Phillips) modified, Particle Size (ASTM D422), pH (EPA SW846 Method 9045D), Specific Gravity (ASTM D854), TOC (Walkley Black)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A SW	
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Laboratory Blanks	A	
V	Field blanks	N	
VI.	Matrix Spike/Matrix Spike Duplicates	N	Not reviewed for ADR validation. not required
VII.	Duplicate sample analysis	A	Not reviewed for ADR validation. DUP
VIII.	Laboratory control samples	A	Not reviewed for ADR validation. LCS
IX.	Field duplicates	N	
X.	Sample result verification	A	Not reviewed for ADR validation.
XI	Overall assessment of data	A	Not reviewed for ADR validation.

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

** Indicates sample was underwent Level IV review

	Client ID	Lab ID	Matrix	Date
1	FTBL-SB01-0-2-020717	K1701419-001	Soil	02/07/17
2	FTBL-SB03-2-4-020817**	K1701419-002**	Soil	02/08/17
3	FTBL-SB03-28-30-020917	K1701419-003	Soil	02/09/17
4	FTBL-SB01-0-2-020717DUP	K1701419-001DUP	Soil	02/07/17
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Notes:

Enclosure II

Level IV Data Validation Reports

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Fort Bliss, Castner Range

LDC Report Date: March 20, 2017

Parameters: Iron

Validation Level: Level IV

Laboratory: ALS Environmental

Sample Delivery Group (SDG): K1701419

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
FTBL-SB03-2-4-020817	K1701419-002	Soil	02/08/17

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with the Final Quality Assurance Project Plan, Military Munitions Response Program Remedial Investigation, Closed Castner Firing Range, Fort Bliss, El Paso, Texas (February 2015), the U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.0 (July 2013), and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines (CLPNFG) for Inorganic Superfund Data Review (October 2004). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Iron by Environmental Protection Agency (EPA) SW 846 Method 6010C

All sample results were subjected to Level IV data validation, which is comprised of the quality control (QC) summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.

U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.

NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

II. Instrument Calibration

Initial and continuing calibrations were performed as required by the method.

The initial calibration verification (ICV) and continuing calibration verification (CCV) standards were within QC limits.

III. ICP Interference Check Sample Analysis

The frequency of interference check sample (ICS) analysis was met. All criteria were within QC limits.

IV. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks.

V. Field Blanks

No field blanks were identified in this SDG.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. For FTBL-SB01-0-2-020717MS/MSD, no data were qualified for Iron percent recoveries (%R) outside the QC limits since the parent sample results were greater than 4X the spike concentration. Relative percent differences (RPD) were within QC limits.

VII. Duplicate Sample Analysis

The laboratory has indicated that there were no duplicate (DUP) analyses specified for the samples in this SDG, and therefore duplicate analyses were not performed for this SDG.

VIII. Serial Dilution

Serial dilution analysis was performed on an associated project sample. The analysis criteria were met.

IX. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

X. Field Duplicates

No field duplicates were identified in this SDG.

XI. Sample Result Verification

All sample result verifications were acceptable.

XII. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

The quality control criteria reviewed were met and are considered acceptable. Based upon the data validation all results are considered valid and usable for all purposes.

Fort Bliss, Castner Range
Iron - Data Qualification Summary - SDG K1701419

No Sample Data Qualified in this SDG

Fort Bliss, Castner Range
Iron - Laboratory Blank Data Qualification Summary - SDG K1701419

No Sample Data Qualified in this SDG

Fort Bliss, Castner Range
Iron - Field Blank Data Qualification Summary - SDG K1701419

No Sample Data Qualified in this SDG

LDC #: 38249A4b

SDG #: K1701419

Laboratory: ALS Environmental

VALIDATION COMPLETENESS WORKSHEET

ADR/IV

Date: 3/17/17

Page: 1 of 1

Reviewer: [illegible]

2nd Reviewer: [illegible]

METHOD: Iron (EPA SW 846 Method 6010C)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A /A	
II.	Instrument Calibration	A	
III.	ICP Interference Check Sample (ICS) Analysis	A	
IV.	Laboratory Blanks	A	~~ICB/CCB only~~
V.	Field Blanks	N	
VI.	Matrix Spike/Matrix Spike Duplicates	A	Not reviewed for ADR validation. MS/D (Fe 74X)
VII.	Duplicate sample analysis	N	Not reviewed for ADR validation.
VIII.	Serial Dilution	A	
IX.	Laboratory control samples	A	Not reviewed for ADR validation. LCS
X.	Field Duplicates	N	
XI.	Sample Result Verification	A	Not reviewed for ADR validation.
XII.	Overall Assessment of Data	A	Not reviewed for ADR validation.

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

** Indicates sample was underwent Level IV review

	Client ID	Lab ID	Matrix	Date
1	~~FTBL-SB01-0-2-020717~~	K1701419-001	Soil	02/07/17
2	FTBL-SB03-2-4-020817**	K1701419-002**	Soil	02/08/17
3	~~FTBL-SB03-28-30-020917~~	K1701419-003	Soil	02/09/17
4	FTBL-SB01-0-2-020717MS	K1701419-001MS	Soil	02/07/17
5	~~FTBL-SB01-0-2-020717MSD~~	K1701419-001MSD	Soil	02/07/17
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Notes:

DC #: 380249(A4b

VALIDATION FINDINGS CHECKLIST

Reviewer: CB
2nd Reviewer:

Method: Metals (EPA SW 846 Method 6010B/7000/6020)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. ICP/MS Tune				
Were all isotopes in the tuning solution mass resolution within 0.1 amu?			✓	
Were %RSD of isotopes in the tuning solution ≤5%?			✓	
III. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% (80-120% for mercury) QC limits?	✓			
Were all initial calibration correlation coefficients ≥ 0.995?	✓			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
V. ICP Interference Check Sample				
Were ICP interference check samples performed daily?	✓			
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?	✓			
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	✓			
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of +/- RL(+/-2X RL for soil) was used for samples that were ≤ 5X the RL, including when only one of the duplicate sample values were ≤ 5X the RL.	✓			
VII. Laboratory control samples				
Was an LCS anaylzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% QC limits for water samples and laboratory established QC limits for soils?	✓			

DC #: 38249454

VALIDATION FINDINGS CHECKLIST

Reviewer: CA
2nd Reviewer: CT

Validation Area	Yes	No	NA	Findings/Comments
VIII. Furnace Atomic Absorption QC				
If MSA was performed, was the correlation coefficients > 0.995?			✓	
Do all applicable analysies have duplicate injections? (Level IV only)			✓	
For sample concentrations > RL, are applicable duplicate injection RSD values < 20%? (Level IV only)			✓	
Were analytical spike recoveries within the 85-115% QC limits?			✓	
IX. ICP Serial Dilution				
Was an ICP serial dilution analyzed if analyte concentrations were > 50X the MDL (ICP)/>100X the MDL(ICP/MS)?	✓			
Were all percent differences (%Ds) < 10%?	✓			
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.			✓	
X. Internal Standards (EPA SW 846 Method 6020/EPA 200.8)				
Were all the percent recoveries (%R) within the 30-120% (6020)/60-125% (200.8) of the intensity of the internal standard in the associated initial calibration?			✓	
If the %Rs were outside the criteria, was a reanalysis performed?			✓	
XI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		✓		
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
XII. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		✓		
Target analytes were detected in the field duplicates.			✓	
XV. Field blanks				
Field blanks were identified in this SDG.		✓	✓	
Target analytes were detected in the field blanks.			✓	

LDC #: 38249A4h

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Reviewer: OR
2nd Reviewer: R

METHOD: Trace metals (EPA SW 846 Method 6010/6020/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = Found x 100 / True

Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
ICV	ICP (Initial calibration)	Fe	2481	2500	99	99	Y
	ICP/MS (Initial calibration)						
	CVAA (Initial calibration)						
CCV(10:48)	ICP (Continuing calibration)	Fe	10040	10000	100	100	Y
	ICP/MS (Continuing calibration)						
	CVAA (Continuing calibration)						

Comments:

CALCLC.4C4

LDC #: 38049A45

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Reviewer: CR
2nd Reviewer: [illegible]

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{Found}{True} \times 100$ Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$\%D = \frac{|I-SDR|}{I} \times 100$ Where, I = Initial Sample Result (mg/L)
SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	Found / S / I (units)	True / D / SDR (units)	Recalculated %R / RPD / %D	Reported %R / RPD / %D	Acceptable (Y/N)
N	ICP interference check						
LCS	Laboratory control sample	Fe	204,8	200	102	102	Y
N	Matrix spike		(SSR-SR)				
N	Duplicate						
N	ICP serial dilution						

Comments: _____

LDC #: 35249A4h

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: CR
2nd reviewer: CR

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Have results been reported and calculated correctly?
Y N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
Y N N/A Are all detection limits below the CRDL?

Detected analyte results for Fe were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(Dil)}{(In.\ Vol.)}$

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor

Recalculation:

$$\frac{100mL\,(2)(47.47mg/L)}{0.943(1.027g)} = 9803\ mg/kg$$

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
	2	Fe	9800	9800	Y

Note:

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Fort Bliss, Castner Range

LDC Report Date: March 20, 2017

Parameters: Wet Chemistry

Validation Level: Level IV

Laboratory: ALS Environmental

Sample Delivery Group (SDG): K1701419

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
FTBL-SB03-2-4-020817	K1701419-002	Soil	02/08/17

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with the Final Quality Assurance Project Plan, Military Munitions Response Program Remedial Investigation, Closed Castner Firing Range, Fort Bliss, El Paso, Texas (February 2015), the U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.0 (July 2013), and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines (CLPNFG) for Inorganic Superfund Data Review (October 2004). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following methods:

Bulk Density by American Society for Testing and Material (ASTM) E1109
Ferrous Iron by Lovely Phillips Modified
Particle Size by ASTM D422
pH by Environmental Protection Agency (EPA) SW 846 Method 9045D
Specific Gravity by ASTM D854
Total Organic Carbon by Walkley Black

All sample results were subjected to Level IV data validation, which is comprised of the quality control (QC) summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

J (Estimated): The compound or analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.

U (Non-detected): The compound or analyte was analyzed for and positively identified by the laboratory; however the compound or analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ (Non-detected estimated): The compound or analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

R (Rejected): The sample results were rejected due to gross non-conformances discovered during data validation. Data qualified as rejected is not usable.

NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected compound or analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met with the following exceptions:

Sample	Analyte	Total Time From Sample Collection Until Analysis	Required Holding Time From Sample Collection Until Analysis	Flag	A or P
FTBL-SB03-2-4-020817	pH	22 days	24 hours	J (all detects)	P

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Continuing Calibration

Continuing calibration frequency and analysis criteria were met for each method when applicable.

IV. Laboratory Blanks

Laboratory blanks were analyzed as required by the methods. No contaminants were found in the laboratory blanks.

V. Field Blanks

No field blanks were identified in this SDG.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) analyses were not required by the method.

VII. Duplicate Sample Analysis

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits.

VIII. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the methods. Percent recoveries (%R) were within QC limits.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Sample Result Verification

All sample result verifications were acceptable.

XI. Overall Assessment of Data

The analysis was conducted within all specifications of the methods. No results were rejected in this SDG.

Due to technical holding time, data were qualified as estimated in one sample.

The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the data validation all other results are considered valid and usable for all purposes.

Fort Bliss, Castner Range
Wet Chemistry - Data Qualification Summary - SDG K1701419

Sample	Analyte	Flag	A or P	Reason
FTBL-SB03-2-4-020817	pH	J (all detects)	P	Technical holding times

Fort Bliss, Castner Range
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG K1701419

No Sample Data Qualified in this SDG

Fort Bliss, Castner Range
Wet Chemistry - Field Blank Data Qualification Summary - SDG K1701419

No Sample Data Qualified in this SDG

LDC #: 38249A6 **VALIDATION COMPLETENESS WORKSHEET** Date: 3/17/17

SDG #: K1701419 ~~ADR~~/IV Page: 1 of 1

Laboratory: ALS Environmental Reviewer: CF

mod. fred 2nd Reviewer: CF

METHOD: (Analyte) Bulk Density (ASTM E1109), Ferrous Iron (Lovely Phillips), Particle Size (ASTM D422), pH (EPA SW846 Method 9045D), Specific Gravity (ASTM D854), TOC (Walkley Black)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A SW	
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Laboratory Blanks	A	
V	Field blanks	N	
VI.	Matrix Spike/Matrix Spike Duplicates	N	Not reviewed for ADR validation. not required
VII.	Duplicate sample analysis	A	Not reviewed for ADR validation. DUP
VIII.	Laboratory control samples	A	Not reviewed for ADR validation. LCS
IX.	Field duplicates	N	
X.	Sample result verification	A	Not reviewed for ADR validation.
XI	Overall assessment of data	A	Not reviewed for ADR validation.

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

** Indicates sample was underwent Level IV review

	Client ID	Lab ID	Matrix	Date
1	~~FTBL-SB01-0-2-020717~~	K1701419-001	Soil	02/07/17
2	FTBL-SB03-2-4-020817**	K1701419-002**	Soil	02/08/17
3	~~FTBL-SB03-28-30-020917~~	K1701419-003	Soil	02/09/17
4	~~FTBL-SB01-0-2-020717DUP~~	K1701419-001DUP	Soil	02/07/17
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Notes:

LDC #: 38249A6

VALIDATION FINDINGS CHECKLIST

Reviewer: GR
2nd Reviewer: [illegible]

Method: Inorganics (EPA Method See cover)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
II. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial calibration correlation coefficients ≥ 0.995?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% QC limits?	✓			
Were titrant checks performed as required? (Level IV only)			✓	
Were balance checks performed as required? (Level IV only)			✓	
III. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
IV. Matrix spike/Matrix spike duplicates and Duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.			✓	
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of ≤ CRDL(≤ 2X CRDL for soil) was used for samples that were ≤ 5X the CRDL, including when only one of the duplicate sample values were ≤ 5X the CRDL.	✓			
V. Laboratory control samples				
Was an LCS anaylzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% (85-115% for Method 300.0) QC limits?	✓			
VI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		✓	✓	
Were the performance evaluation (PE) samples within the acceptance limits?				

LDC #: 38249A6

VALIDATION FINDINGS CHECKLIST

Reviewer: [illegible]
2nd Reviewer: [illegible]

Validation Area	Yes	No	NA	Findings/Comments
VII. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
Were detection limits < RL?	✓			
VIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
IX. Field duplicates				
Field duplicate pairs were identified in this SDG.		✓		
Target analytes were detected in the field duplicates.			✓	
X. Field blanks				
Field blanks were identified in this SDG.		✓		
Target analytes were detected in the field blanks.			✓	

LDC #: 38246A6

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

Reviewer: CR
2nd reviewer: CT

All circled methods are applicable to each sample.

Sample ID	Matrix	Parameter
1-3		(pH) TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO Specif. C Gravity / Bulk Density / Fe2+ / Particle Size
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
QC: 4		(pH) TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN (TOC) CR^{6+} ClO_4 Specif. C Gravity / Particle Size
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 _____ _____
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 _____ _____
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 _____ _____
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 _____ _____
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 _____ _____
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 _____ _____
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		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 _____ _____

Comments: _____

LDC #: 38249A6

VALIDATION FINDINGS WORKSHEET
Technical Holding Times

Page: 1 of 1
Reviewer: CR
2nd reviewer:

All circled dates have exceeded the technical holding time.
Y N N/A Were all samples preserved as applicable to each method ?
Y N N/A Were all cooler temperatures within validation criteria?

Method:	9045D		
Parameters:	pH		
Technical holding time:	24hrs		

Sample ID	Sampling date	Analysis date	Total Time	Qualifier	Analysis date	Total Time	Qualifier
2	2/8/17	3/2/17	22days	J (UJ/P(ed))			

LDC #: 35919A6

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Page: 1 of 1
Reviewer: CR
2nd Reviewer: 1

METHOD: Inorganics, Method see cover

Percent recoveries (%R) for a laboratory control sample and a matrix spike sample were recalculated using the following formula:

%R = Found / True x 100 Where, Found = concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

RPD = |S-D| / (S+D)/2 x 100 Where, S = Original sample concentration
D = Duplicate sample concentration

Sample ID	Type of Analysis	Element	Found / S (units)	True / D (units)	Recalculated %R / RPD	Reported %R / RPD	Acceptable (Y/N)
LCS	Laboratory control sample	TOC	6300	5500	115	115	Y
N	Matrix spike sample		(SSR-SR)				
Y	Duplicate sample	Specific Gravity	2.09	1.77	17	17	Y

Comments: _____

TOTCLC.6

LDC #: 36249A6

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: CR
2nd reviewer: CR

METHOD: Inorganics, Method see cover

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Have results been reported and calculated correctly?
Y N N/A Are results within the calibrated range of the instruments?
Y N N/A Are all detection limits below the CRQL?

Compound (analyte) results for Specific Gravity reported with a positive detect were recalculated and verified using the following equation:

Concentration = $\frac{Wt}{Wt + (WaterWt - SampleWater)}$

Recalculation: $\frac{1.9773}{1.9773 + (48.6468 - 49.247)} = 1.436$

#	Sample ID	Analyte	Reported Concentration ( )	Calculated Concentration ( )	Acceptable (Y/N)
	2	pH (units)	8.51	8.51	Y
		Specific Gravity (no units)	1.44	1.44	
		Bulk Density (g/cm3)	1.29	1.29	
		TOC (mg/kg)	2700	2700	
		Particle Size: No. 4 (% passing)	85.47	85.47	
		10	62.21	62.21	
		20	41.53	41.53	
		40	32.02	32.02	
		60	27.91	27.91	
		140	22.64	22.64	
		200	20.29	20.29	

Note: